Environmental Planning & Management, Inc.
P E M
1983 Marcus Ave., Suite 109
Lake Success, New York 11042
Phone (516) 328-1194
Fax (516) 328-1388

LETTER OF TRANSMITTAL

RECEIVED
FEB 04 2013
REMEDIAL BUREAU E

Date: 02/01/13	Job No. 12001
Attention: Mr. Carl Hoffman	
Re: *Katonah Annual Water Monitoring*	

TO:

NYSDEC
625 Broadway
Albany, NY 12233-7013

WE ARE SENDING YOU: ☐ Included ☐ Under separate cover via _____ the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Qualifications ☐ Specifications

☐ Copy of Letter ■ Report ☐ _____

COPIES	DATE	NO.	
1	2/1/13		*2013 - Katonah Annual Water Monitoring Report*

THESE ARE TRANSMITTED AS INDICATED BELOW:

☐ For Approval ☐ Approved as submitted ☐ Resubmit _____ Copies for Approval

■ For your use ☐ Approved as noted ☐ Submit _____ Copies for distribution

■ As requested ☐ Returned for corrections ☐ Return _____ Corrected Prints

☐ For review & comment

REMARKS

If there are any questions, please feel free to call me.
Office Phone: 516-328-1194

COPY TO *File*

SIGNED _____
Darren Frank

ENVIRONMENTAL
PLANNING &
MANAGEMENT, INC.

RECEIVED
FEB 04 2013
REMEDIAL BUREAU E

James Hahn
James J. Hahn Engineering
Putnam Business Park
1689 Route 22
Brewster, NY 10509

February 1, 2013

Dear Mr. Hahn:

Enclosed please find the annual monitoring report of 2012 for the Katonah Municipal Well, Town of Bedford, Westchester County, New York (NYSDEC Site ID # 3-60-007).

Please call should you have any questions.

Sincerely,

Stacey Gogos
President

cc: Kenneth Caffrey, PE, NYSDOH
Carl Hoffman, NYSDEC
William Nixon, Town of Bedford
Paul Kutzy, Westchester County DOH
Damian Duda, USEPA Region 2

GROUNDWATER QUALITY MONITORING
ANNUAL REPORT
2012
KATONAH MUNICIPAL WELL
TOWN OF BEDFORD
WESTCHESTER, NEW YORK
NYSDEC SITE ID # 3-60-007

EPM PROJECT NUMBER: 12001

PREPARED FOR:

James J. Hahn Engineering
Millbrook Office Center
Route 22 & Milltown Road
Brewster, New York 10509

PREPARED BY:

Environmental Planning & Management, Inc.
1983 Marcus Avenue, Suite 109
Lake Success, New York 11042

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APPENDICES

Appendix A - Data Validation Groundwater Monitoring Report

Appendix B - Laboratory Analysis Report

1.0 INTRODUCTION

This annual groundwater sampling and analysis report has been prepared for the Katonah Municipal Well Site in Katonah, Town of Bedford, New York. This submittal is in accordance with the groundwater monitoring requirements of the New York State Department of Health (NYSDOH) and the United States Environmental Protection Agency (USEPA). This report includes the data collection and analysis results of the remedial system operation for the year-end of 2012. Sampling of the remedial system and the two existing monitoring wells was conducted on December 19, 2012.

2.0 SAMPLE COLLECTION

Environmental Planning & Management Incorporated collected samples on December 19, 2012. Sample sets were collected from three sampling taps; the raw water sampling tap (RW), the stripper number two effluent sampling tap (STEFF), and the distribution sampling tap (DIST). One field duplicate sample (DUP) was collected from the Raw Water sampling tap. Samples were also collected from two nearby monitoring wells, W4 and W11. Sample locations are shown on Figure 1 - Sampling Tap Location Schematic. Sampling was conducted in accordance with the approved Project Operation Plan.

Samples were labeled at the field location and placed into transport coolers containing ice. A field equipment blank, trip blank and chain-of-custody documentation accompanied the samples to the laboratory for analysis. The samples were analyzed by Alpha Analytical Laboratories of Westborough, Massachusetts (NYS-Department of Health approved Environmental Laboratory Accreditation Program (ELAP) laboratory #11148, in accordance with CLP methods, for volatile organics (Principal Organic Contaminants), by USEPA method 524.2, revision number 4.1.

3.0 FINDINGS

VOC Analysis

Table 1 provides a summary of the analytical results for the annual water quality monitoring in comparison to the New York State Department of Health (NYSDOH) Drinking Water Standards and the United States Environmental Protection Agency (US EPA) site-specific clean-up standard for Tetrachloroethene (PCE). As indicated by the laboratory analysis, the treatment system effluent meets the NYSDOH drinking water standards and the USEPA clean-up level of less than one part per billion (ppb) (or non-detectable) for Tetrachloroethene.

Tetrachloroethene was detected in the untreated Raw Water (RW) sample, at a concentration of 19 µg/L (ppb), which exceeds the Site-Specific USEPA clean-up standard of 1 ppb. Sample RW also exhibited Trichloroethylene, and cis-1,2-Dichloroethylene, however the concentrations are below the NYSDOH drinking water standard.

Analytical results for the duplicate sample (DUP) of the Raw Water (RW) similarly exhibited Tetrachloroethene at a concentration 18 ppb. This sample also exhibited Trichloroethylene and cis-1,2-Dichloroethylene at similar concentrations that are below the NYSDOH drinking water standard.

No VOCs were detected in the treated (stripper number 2) water sample, STEFF.

Four VOCs, Chloroform, Bromoform, Dibromochloromethane, and Bromodichloromethane were detected in the Distribution (DIST) water sample at concentrations below the NYSDOH drinking water standards.

Three VOCs, Tetrachloroethylene, Trichloroethylene, and cis-1,2-Dichloroethylene were detected in monitoring well 4 (MW4) at concentrations below the USEPA Cleanup Standard and the NYSDOH drinking water standard as applicable.

Two VOCs, Tetrachloroethylene and Chloroform were detected in monitoring well 11 (MW11) at concentrations below the USEPA Cleanup Standard and the NYSDOH drinking water standard as applicable.

Methylene chloride (CAS# 75-09-2), a common laboratory contaminant, was detected below the laboratory detection limit in the field blank at an estimated concentration of 0.18 ppb. Methylene chloride was not detected in any of the other analyzed samples, including the Trip Blank. Therefore, this concentration is believed to reflect a minor laboratory error which has not compromised the validity of the remaining samples.

No other VOCs were detected in the Field Blank (FB) or Trip blank water samples, demonstrating that no contamination was introduced during sampling and that cross-contamination had not occurred during delivery of the samples to the laboratory.

Refer to Table 1 for a summary of the groundwater analysis results for volatile organic compounds (VOCs). Table 1 reflects the detectable concentration values which have been qualified as a result of data validation. Refer to Appendix A for the data validation report which details any variations of the detectable concentration values discussed above.

The PCE concentration in the Influent (raw water) has decreased relative to the last sampling event (see Figure 2). To date, the PCE level in the raw water samples is not of significant concern, since the treated water and distribution water samples continue to exhibit non-detectable or insignificant concentrations of PCE. However, changes in PCE levels will continue to be closely monitored.

Table 1 - SUMMARY OF ANNUAL VOC RESULTS KATONAH MUNICIPAL WELL									
Date Collected	**12/19/2012**								
Sample Location	**Raw Water (Influent)**	**RW DUP**	**STEFF (Treated Water)**	**DIST (Distribution Water)**	**MW4 (Well 4)**	**MW11 (Well 11)**	**FB (Field Blank)**	**Trip Blank**	**NYSDOH MCL / USEPA Standard**
Volatile Organic Compounds (ppb)									
Tetrachloroethylene (127-18-4)	[redacted]	[redacted]	ND	ND	0.17 J	0.57	ND	ND	1*
Trichloroethylene (79-01-6)	0.59	0.54	ND	ND	0.24 J	ND	ND	ND	5
cis-1,2-Dichloroethylene (156-59-2)	0.42 J	0.38 J	ND	ND	0.61	ND	ND	ND	5
Methylene Chloride (75-09-2)	ND	ND	ND	ND	ND	ND	0.18 J	ND	5
Chloroform (67-66-3)	ND	ND	ND	0.26 J	ND	0.15 J	ND	ND	80**
Bromoform (75-25-2)	ND	ND	ND	2.3	ND	ND	ND	ND	80**
Dibromochloromethane (124-48-1)	ND	ND	ND	2.1	ND	ND	ND	ND	80**
Bromodichloromethane (75-27-4)	ND	ND	ND	0.78	ND	ND	ND	ND	80**
Methyl Tert Butyl Ether(MTBE 1634-04-4)	ND	ND	ND	ND	ND	ND	ND	ND	10

Notes

USEPA MCL: United States Environmental Protection Agency, National Primary Drinking Water Regulations, Maximum Contaminant Limit

USEPA Standard: United States Environmental Protection Agency, Site Specific Cleanup Standard

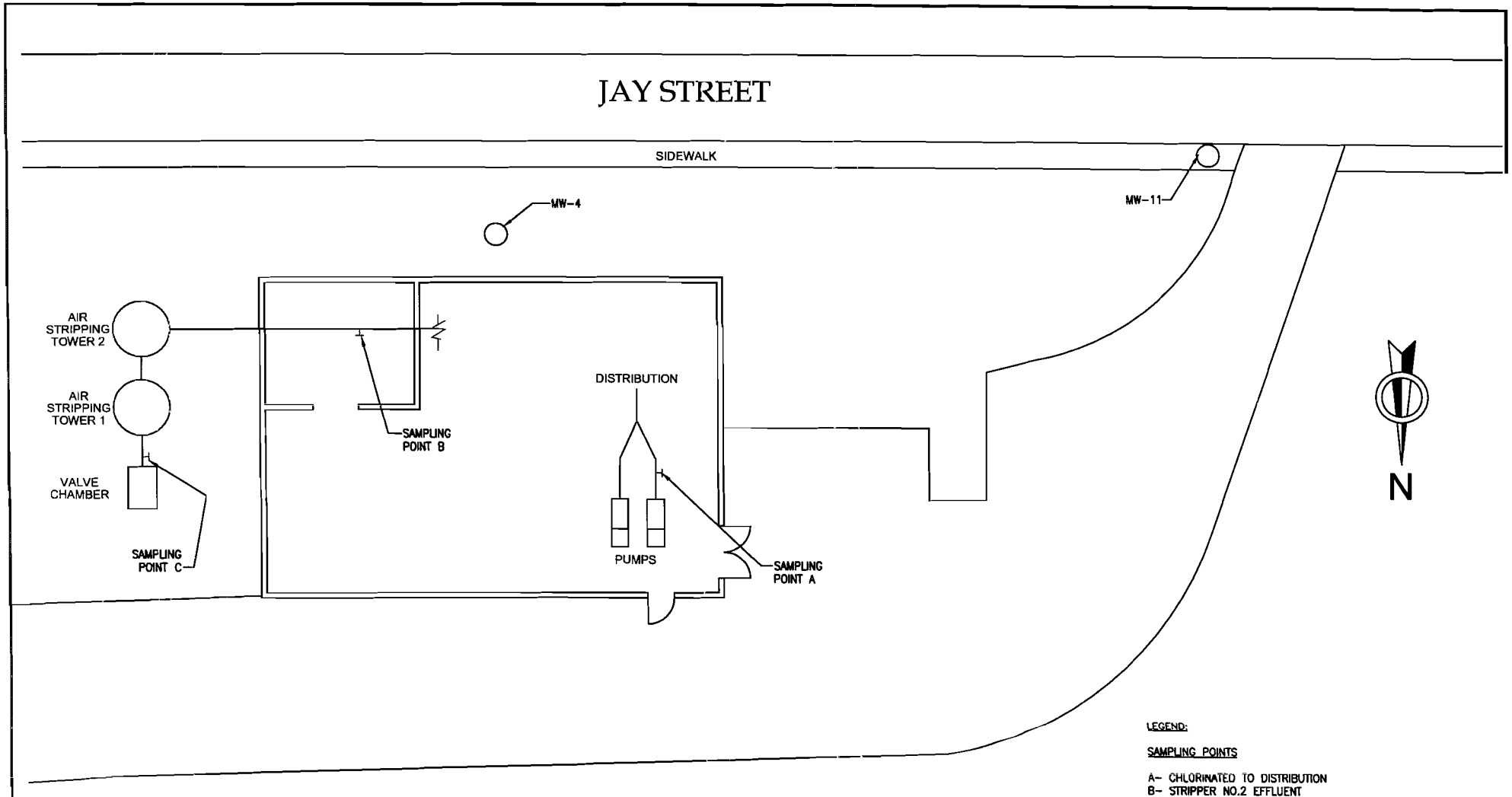
* - 1 ppb is the USEPA site specific cleanup standard for tetrachloroethylene

** - Total Trihalomethanes (TTHMS - chloroform, bromodichloromethane, dibromochloromethane, and bromoform)

Shading indicates that contaminant level exceeds the regulatory level

J - Analyte concentration is an estimate due to detection below the laboratory reporting limit.

ND - No Detectable Concentration



PEM ENVIRONMENTAL PLANNING & MANAGEMENT, INC. 1983 MARCUS AVENUE SUITE 109 LAKE SUCCESS, NEW YORK 11042	DRAWN BY: AMR	DATE:	CLIENT: KATONAH MUNICIPAL WATER SYSTEM	TITLE: SIMPLIFIED SAMPLING LOCATION SCHEMATIC	DRAWING NO: FIG. 1
	CHECKED BY: FP	FILENAME: KATONAH		PROJECT LOCATION: KATONAH MUNICIPAL WATER SYSTEM KATONAH, NEW YORK	SHEET 1 OF 1
	APPR'VD BY: ASG	SCALE: NOT TO SCALE			
	PATH: C:\AMR\BEDFORD\KATONAH\22001DWGS				

4.0 FUTURE ACTIONS

Water quality monitoring will continue to be conducted annually at the treatment system influent, stripper effluent, distribution point, and the two groundwater monitoring wells.

The next annual sampling event for the year-end of 2013, the twenty-second year of sampling, is tentatively scheduled for the month of December, 2013.

Figure 2

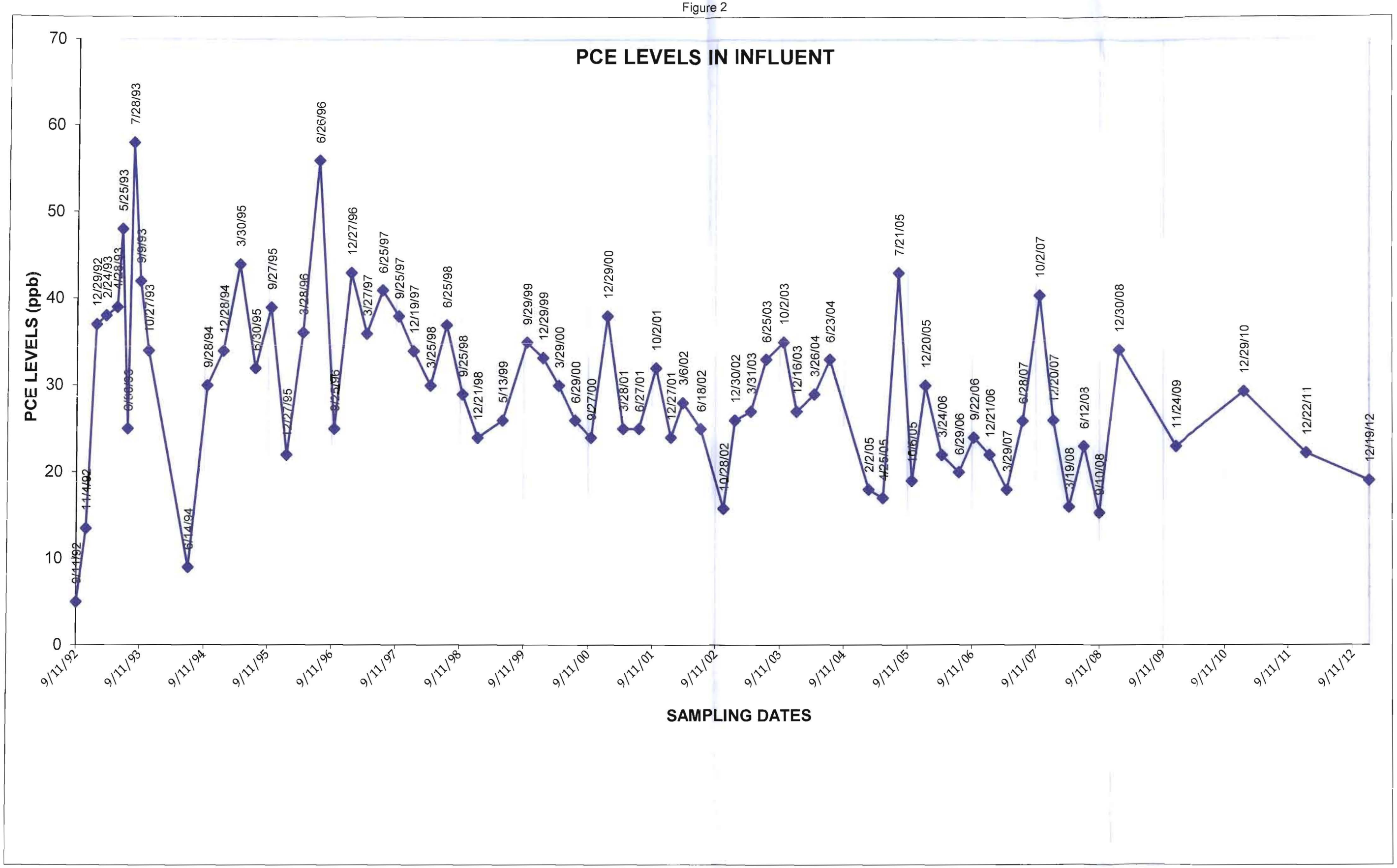


FIGURE -2

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
KATONAH PUMP HOUSE, BEDFORD, NEW YORK

Client: EPM, Inc., Lake Success, New York
SDG: L1223074
Laboratory: Alpha Analytical, Westborough, Massachusetts
Site: Katonah Q4, Katonah Pump House, Bedford, NY
Date: January 21, 2013

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	RW	L1223074-01	Water
1MS	RWMS	L1223074-01MS	Water
1MSD	RWMSD	L1223074-01MSD	Water
2	DUP	L1223074-02	Water
3	STEFF	L1223074-03	Water
4	DIST	L1223074-04	Water
5	MW-4	L1223074-05	Water
6	MW-11	L1223074-06	Water
7	FIELD BLANK	L1223074-07	Water
8	TRIP BLANK	L1223074-08	Water

A Data Usability Summary Review was performed on the analytical data for six water samples, one aqueous field blank sample and one aqueous trip blank sample collected on December 19, 2012 by EPM, Inc. at the Katonah Q4 site in Bedford, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Methods for the Determination of Organic Compounds in Drinking Water, December 1988, Revised July 1991".*

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA Method 524.2, Rev 4.1

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-24, Revision 2, August 2008: Validating Volatile Organic Compounds by SW-846 Method 8260B;
- and the reviewer's professional judgment.

The following items/criteria were reviewed:

Organics

- Data Completeness

- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Overall Usability Issues:

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
FIELD BLANK	Methylene Chloride	0.18	1.8	None	All ND
TRIP BLANK	None - ND	-	-	-	-

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All %RSD and/or correlation coefficient and mean RRF criteria were met.

Continuing Calibration

- All %D and RRF criteria were met.

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate results are summarized below.

Compound	RW ug/L	DUP ug/L	RPD	Qualifier
Tetrachloroethene	19	18	5%	None
cis-1,2-Dichloroethene	0.42	0.38	10%	
Trichloroethene	0.59	0.54	9%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Very truly yours,
Environmental Data Services, Inc.

Nancy Weaver 1/21/13

Nancy Weaver Date
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-01	Date Collected	: 12/19/12 11:20
Client ID	: RW	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:57
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A07	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	19	0.50	0.16	
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

NW 1/20/13

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-01	Date Collected	: 12/19/12 11:20
Client ID	: RW	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:57
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A07	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	0.42	0.50	0.13	J
79-01-6	Trichloroethene	0.59	0.50	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

NW 1/20/13

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-01	Date Collected	: 12/19/12 11:20
Client ID	: RW	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:57
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A07	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

NW 1/20/13

Form 1
Volatile

2

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-02	Date Collected	: 12/19/12 00:00
Client ID	: DUP	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 13:32
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A08	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	18	0.50	0.16	
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

NW 1/20/13

Form 1
Volatile

2

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-02	Date Collected	: 12/19/12 00:00
Client ID	: DUP	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 13:32
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A08	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	0.38	0.50	0.13	J
79-01-6	Trichloroethene	0.54	0.50	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

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2

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-02	Date Collected	: 12/19/12 00:00
Client ID	: DUP	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 13:32
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A08	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-03	Date Collected	: 12/19/12 11:35
Client ID	: STEFF	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:07
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A09	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-03	Date Collected	: 12/19/12 11:35
Client ID	: STEFF	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:07
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A09	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-03	Date Collected	: 12/19/12 11:35
Client ID	: STEFF	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:07
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A09	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-04	Date Collected	: 12/19/12 11:45
Client ID	: DIST	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:42
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A10	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	0.26	0.50	0.12	J
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	2.1	0.50	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	0.78	0.50	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	2.3	0.50	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-04	Date Collected	: 12/19/12 11:45
Client ID	: DIST	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:42
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A10	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-04	Date Collected	: 12/19/12 11:45
Client ID	: DIST	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:42
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A10	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-05	Date Collected	: 12/19/12 12:00
Client ID	: MW-4	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:17
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A11	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	0.17	0.50	0.16	J
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-05	Date Collected	: 12/19/12 12:00
Client ID	: MW-4	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:17
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A11	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	0.61	0.50	0.13	
79-01-6	Trichloroethene	0.24	0.50	0.14	J
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-05	Date Collected	: 12/19/12 12:00
Client ID	: MW-4	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:17
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A11	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-06	Date Collected	: 12/19/12 12:30
Client ID	: MW-11	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:53
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A12	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	0.15	0.50	0.12	J
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	0.57	0.50	0.16	
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-06	Date Collected	: 12/19/12 12:30
Client ID	: MW-11	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:53
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A12	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-06	Date Collected	: 12/19/12 12:30
Client ID	: MW-11	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:53
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A12	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-07	Date Collected	: 12/19/12 12:45
Client ID	: FIELD BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 11:46
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A05	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	0.18	0.50	0.12	J
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-07	Date Collected	: 12/19/12 12:45
Client ID	: FIELD BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 11:46
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A05	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-07	Date Collected	: 12/19/12 12:45
Client ID	: FIELD BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 11:46
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A05	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-08	Date Collected	: 12/19/12 00:00
Client ID	: TRIP BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:21
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A06	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-08	Date Collected	: 12/19/12 00:00
Client ID	: TRIP BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:21
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A06	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

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Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-08	Date Collected	: 12/19/12 00:00
Client ID	: TRIP BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:21
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A06	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

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APPENDIX B

LABORATORY ANALYSIS SUMMARY REPORT

ALPHA ANALYTICAL

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L1223074

Project Name: KATONAH
Project Number: 12001

Lab Number: L1223074
Report Date: 12/26/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1223074-01	RW	BEDFORD, NY	12/19/12 11:20
L1223074-02	DUP	BEDFORD, NY	12/19/12 00:00
L1223074-03	STEFF	BEDFORD, NY	12/19/12 11:35
L1223074-04	DIST	BEDFORD, NY	12/19/12 11:45
L1223074-05	MW-4	BEDFORD, NY	12/19/12 12:00
L1223074-06	MW-11	BEDFORD, NY	12/19/12 12:30
L1223074-07	FIELD BLANK	BEDFORD, NY	12/19/12 12:45
L1223074-08	TRIP BLANK	BEDFORD, NY	12/19/12 00:00

Project Name: KATONAH
Project Number: 12001

Lab Number: L1223074
Report Date: 12/26/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: KATONAH
Project Number: 12001

Lab Number: L1223074
Report Date: 12/26/12

Case Narrative (continued)

Report Submission

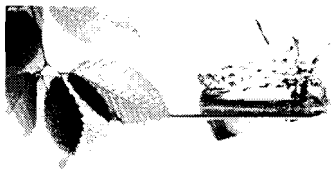
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth A Simmons Elizabeth Simmons

Title: Technical Director/Representative

Date: 12/26/12





ALPHA ANALYTICAL
World Class Chemistry

List of Organic Method Qualifiers

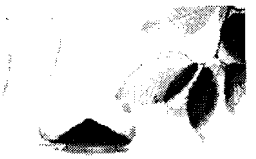
Table 1

Qualifier (Q)	Description
B	Entered if the analyte is found in the associated blank as well as the sample.
C	Applied to pesticide results when the identification has been confirmed by GC/MS.
D	Included when the all identified compounds in the analysis are at the secondary dilution factor.
E	Identified compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value, may indicate one of the following, depending on the situation: (1) The reported value is estimated and below the MDL. (2) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero. (3) QC associated with this analyte is within warning limits.
N	Included for TIC that indicate presumptive evidence of a compound.
U	Entered if the analyte was analyzed for, but not detected.
P	Used for a pesticide/Aroclor target analyte when the concentration difference between 2 GC columns is greater than 25%; the lower value is flagged with a "P".
EMPC	"Estimated Maximum Possible Concentration" – The amount of analyte cannot be accurately quantified, so a maximum concentration has been estimated for the compound.
"XYZ"	"Wildcard" or Laboratory defined qualifier.

Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable, please assess qualifier priority in the following order: U, E, J, B, D, C, P, N. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 64)





List of Inorganic Method Qualifiers

Table 2

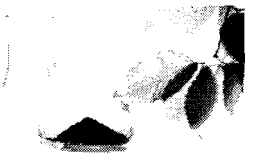
Qualifier	Column (1)	Description
Concentration qualifiers		
B	C	Entered if the reported value was less than the CRDL, but greater than the IDL.
U	C	Entered if the analyte was analyzed for, but not detected.
J	C	Entered if the reported value is estimated and below the MDL.
*	C	Duplicate precision exceeds RPD limit.
M	C	Replicate precision exceeds RPD limit.
"XYZ"	C	"Wildcard" or Laboratory defined qualifier.
Qualifier specific entries		
E	Q	Entered if the reported value is estimated because of the presence of interferences.
Method qualifiers		
A	M	Flame atomic absorption
AS	M	Semi-automated spectrophotometric
AV	M	Automated cold vapor atomic absorption
C	M	Manual spectrophotometric
F	M	Furnace atomic absorption
MS	M	Mass spectrometry (ICP-MS)
NR	M	Analyte is not required to be analyzed
P	M	Inductively coupled plasma (ICP)
" "	M	No data have been entered

(1) The term "Column" is used to indicate under which column heading in the reporting forms that the qualifier will be found under.

Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable to column C, please assess qualifier priority in the following order: U, J, B. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 65)





Volatile Organics Instruments

Volatile Organics: Jack

Instrument: Agilent 5975MSD	Column Type: RTX-VMS
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 20 Meters
Concentrator: EST Encon	df: 1.00um
Autosampler: EST Centurion	ID: 0.18mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Quimby

Instrument: Agilent 5973MSD	Column Type: RTX-VMS
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 20 Meters
Concentrator: EST Encon	df: 1.00um
Autosampler: EST Centurion	ID: 0.18mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Curly

Instrument: Agilent 5972 MSD	Column Type: Restek RTX-502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 40 Meters
Concentrator: Tekmar 3000	df: 1.00 um
Autosampler: Archon	ID: 0.18 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD	Column Type: Restek RTX-502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 40 Meters
Concentrator: Teledyne Velocity	df: 1.00 um
Autosampler: Teledyne Solatek	ID: 0.18 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Gonzo

Instrument: Agilent 5973 MSD	Column Type: Restek RTX-502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 40 Meters
Concentrator: Teledyne Velocity	df: 1.00 um
Autosampler: Teledyne Solatek	ID: 0.18 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: VOA101

Instrument: Agilent 5975C inert XL MSD	Column Type: Restek RTX-VMS
Trap: EST K Trap (VOCARB 3000)	Column Length: 30 Meters
Concentrator: Encon Evolution	df: 1.40 um
Autosampler: EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Charlie/Voa100/Voa104

Instrument: Agilent 5975C MSD	Column Type: Agilent DB-624
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 25 Meters
Concentrator: Encon Evolution	df: 1.12 um
Autosampler: EST Centurion	ID: 0.20 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: M

Instrument: Agilent 6890	Column Type: Restek RTX 502.2
	Column Length: 105 Meters
Concentrator: Tekmar 2016	df: 3.00 um
Autosampler: Tekmar 3100	ID: 0.53 mm

Volatile Organics: L/N

Instrument: Agilent 6890	Column Type: Restek RTX 502.2
	Column Length: 105 Meters
Concentrator: Encon Evolution	df: 3.00 um
Autosampler: EST Archon	ID: 0.53 mm

Volatile Organics: O/P

Instrument: Agilent 7890A	Column Type: Restek RTX 502.2
	Column Length: 105 Meters
Concentrator: Encon Evolution	df: 3.00 um
Autosampler: EST Centurion	ID: 0.53 mm

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instrument: Agilent 6890 GC / 5975 MSD	Column Type: Restek RTX-1
	Column Length: 60 Meters
Concentrator: Entech 7100A	df: 1.00 um
Autosampler: Entech 7016CA	ID: 0.52 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments

Semivolatile Organics (Acid/Base/Neutral Extractables): Juliet/ Gcms5/Gcms7

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (Acid/Base/Neutral Extractables): Juliet/GCMS5

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Dakota/ Mork

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Pesticides/PCB : Pest 11/Pest2/Pest7/Pest12

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek RTX-CLP (Channel A)	df: 0.32 um
Column: Restek RTX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Pesticides/PCB: Pest 10/ Pest9

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek STX-CLP (Channel A)	df: 0.32 um
Column: Restek STX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek RTX-1701 (Channel A)	df: 0.25 um
Column Type: Restek RTX-5 (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Petro9

Instrument: Agilent 6890 w/FID	Injection Volume: 1uL
Column: Restek RTX-5-MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

EPH Petro10/ Petro11

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX-5-MS	df: 0.25um
Column Length: 30 Meters	ID: 0.32 mm

Explosives

Instrument: Dionex ICS-3000, AS50 Autosampler and PDA-100 detectors.
Injection Volume: 100uL
Column: Phenomenex Synergi 4u Hydro-RP and Luna 5u Phenyl-Hexyl

GC/MS Forensic Semivolatile Organic instruments

Semivolatile Organics (ALK-PAH extractables): PAH1/PAH2/PAH3/PAH4

Instrument: Agilent 5973C MSD	Injection volume: 1ul
Column Type: Phenomenex ZB-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25mm

Semivolatile Organics (ALK-PAH extractables):
PAH8/PAH9/PAH10/PAH11/PAH12/PAH13/PAH14

Instrument: Agilent 5975C MSD	Injection volume: 1ul
Column Type: Phenomenex ZB-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25mm

Semivolatile Organics (ALK-PAH extractables): PAH17/PAH18/PAH19

Instrument: Agilent 5975C MSD	Injection volume: 1ul
Column Type: Phenomenex ZB-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25mm

GC/FID Forensic Semivolatile Organic instruments

Semivolatile Organics (SHC extractables):PAH1/PAH2/PAH3/PAH4/PAH8

Instrument: Agilent 6890N w/FID	Injection volume: 1ul
Column Type: Restek RTX-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25mm

Semivolatile Organics (SHC extractables):
FID6 (dual column)/ FID9 (dual column)/ FID17 (dual column)

Instrument: Agilent 6890N w/FID	Injection volume: 1ul
Column Type: Restek RTX-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25mm

Semivolatile Organics (SHC extractables):FID7 (dual column)

Instrument: Agilent 7890N w/FID	Injection volume: 1ul
Column Type: Restek RTX-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25mm

Sample Delivery Group Form

Laboratory Job number: L1223074

Project Number: 12001
Project Name: KATONAH **Received:** 12/19/2012 23:55
Client Account: Environmental Planning and Management **Received by:**

Samples Delivered by: COURIER **Call Tracker #**
Bill Of Laden N/A **Trackingnum**
Coc Present Present

Container Status Intact **Sample IDs**

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A **Are samples Properly Preserved?** Yes
Initial pH **preserved in house with** **Final pH**
Other Issues
Chlorine Check N/A

Are VOA/VPH Vials Present? Yes
Aqueous: Do Vials Contain Head Space? No
Soils: Is MeOHCovering the Soil? N/A
Reagent H2O Preserved vials Frozen on N/A
Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	2.5 - IR Gun	No	No

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 31 2012, 11:13 am

Login Number: L1223074

Account: EPM Environmental Planning and ManagementProject: 12001

Received: 19DEC12 Due Date: 28DEC12

Sample #	Client ID	Mat	PR	Collected	Container
L1223074-01	RW	9	SO	19DEC12 11:20	6-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Run MS/MSD on sample L1223074-01 ASP-B Package Due Date: 12/31/12

524.2,ASP-B,MS/MSD

L1223074-02	DUP	9	SO	19DEC12 00:00	3-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Package Due Date: 12/31/12

524.2

L1223074-03	STEFF	9	SO	19DEC12 11:35	3-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Package Due Date: 12/31/12

524.2

L1223074-04	DIST	9	SO	19DEC12 11:45	2-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Package Due Date: 12/31/12

524.2

L1223074-05	MW-4	9	SO	19DEC12 12:00	3-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Package Due Date: 12/31/12

524.2

L1223074-06	MW-11	9	SO	19DEC12 12:30	3-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Package Due Date: 12/31/12

524.2

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 31 2012, 11:13 am

Login Number: L1223074

Account: EPM Environmental Planning and ManagementProject: 12001

Received: 19DEC12 Due Date: 28DEC12

Sample #	Client ID	Mat	PR	Collected	Container
L1223074-07	FIELD BLANK	9	S0	19DEC12 12:45	3-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Package Due Date: 12/31/12

524.2

Sample #	Client ID	Mat	PR	Collected	Container
L1223074-08	TRIP BLANK	9	S0	19DEC12 00:00	3-Vial-I/B

524: See scanned info for compounds to be reported EXC LUDING DIPE, ETBETAME,TBA,1,2,3-TMB. Reporting list built. Package Due Date: 12/31/12

524.2

Logged By: Matthew Beaupre

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 12/19/12

ALPHA Job #: L1223074

ALPHA TECHNICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ENVIRONMENTAL PLANNING & mgmt
Address: 1983 MARCUS Ave. Suite 109
L. Success NY 11042
Phone: 516-328-1194
Fax: 516-328-1381
Email: dfrank@eemco.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: KATONAH
Project Location: BEDFORD, NY
Project #: 12001
Project Manager: DARREN FRANK
ALPHA Quote #: 84135

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 12/26/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☒ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 120012

Regulatory Requirements/Report Limits

State /Fed Program: NYSDEC
Criteria: CAT - B - DRINKING WATER

Other Project Specific Requirements/Comments/Detection Limits:

NYSDEC - CAT-B

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs 524.2 Rev 3	Sample Specific Comments	TOTAL # BOTTLES
2307M.1	RW	12/19/12	11:15	DW	DF	3		
.2	RW-MS/MSD	12/19/12	11:20	DW	DF	3		
.3	DUP	12/19/12		DW	DF	3		
.4	STEFF	12/19/12	11:35	DW	DF	3		
.5	DIST	12/19/12	11:45	DW	DF	3		
.6	MW-4	12/19/12	12:00	DW	DF	3		
.7	MW-11	12/19/12	12:30	DW	DF	3		
.8	Field Blank	12/19/12	12:45	DW	DF	3		
.9	Trip Blank	12/14/12	LAB	WW	DF	3		
	Container Type					✓		
	Preservative					HCL		

Relinquished By:	Date/Time	Received By:	Date/Time
	15:30 12/19/12		15:30 12/19/12
	12/19/12 1900		12/19/12 1900
	12/19/12 23:55	Richard Scott	12/19/12 2355

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Organics

GC/MS 8260
Analysis

GC/MS VOA Analysis

Volatiles QC Summary

DW VOLATILE SURROGATE RECOVERY

Lab Name: Alpha Analytical Labs

SDG No.: L1223074 Matrix: DW

	CLIENT SAMPLE NO.	SMC1 (BFB)	SMC2 (DCB)	SMC3 ( )	SMC4 ( )	TOT OUT
01	DIST	99	99	--	--	0
02	DUP	101	99	--	--	0
03	DUPDUP	101	101	--	--	0
04	FIELD BLANK	102	100	--	--	0
05	WG580980-1LCS	103	101	--	--	0
06	WG580980-2BLANK	102	98	--	--	0
07	MW-11	102	101	--	--	0
08	MW-4	103	102	--	--	0
09	RWMS	102	101	--	--	0
10	RWMSD	100	99	--	--	0
11	RW	101	100	--	--	0
12	STEFF	101	99	--	--	0
13	TRIP BLANK	100	100	--	--	0

	QC LIMITS
SMC1 (BFB) = 4-BROMOFLUOROBENZENE	(80-120)
SMC2 (DCB) = 1,2-DICHLOROBENZENE-D4	(80-120)

* Values outside of QC limits

FORM II 524.2

3A
LAB DUPLICATE
WATER VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1223074 Matrix: Water
Lab Sample ID : WG580980-3 Injected: 12/20/12 16:28 Lab File ID: 1220A13.D
Client Sample ID : DUP

COMPOUND	SAMPLE CONCENTRATION (ug/l)	DUP CONCENTRATION (ug/l)	DUP % RPD	DUP RPD LIMIT
Methylene chloride	ND	ND	NC	20
1,1-Dichloroethane	ND	ND	NC	20
Chloroform	ND	ND	NC	20
Carbon tetrachloride	ND	ND	NC	20
1,2-Dichloropropane	ND	ND	NC	20
Dibromochloromethane	ND	ND	NC	20
1,1,2-Trichloroethane	ND	ND	NC	20
Tetrachloroethene	18	19	5	20
Chlorobenzene	ND	ND	NC	20
Trichlorofluoromethane	ND	ND	NC	20
1,2-Dichloroethane	ND	ND	NC	20
1,1,1-Trichloroethane	ND	ND	NC	20
Bromodichloromethane	ND	ND	NC	20
trans-1,3-Dichloropropene	ND	ND	NC	20
cis-1,3-Dichloropropene	ND	ND	NC	20
Bromoform	ND	ND	NC	20
1,1,2,2-Tetrachloroethane	ND	ND	NC	20
Benzene	ND	ND	NC	20
Toluene	ND	ND	NC	20
Ethylbenzene	ND	ND	NC	20
p/m-Xylene	ND	ND	NC	20
Chloromethane	ND	ND	NC	20
Bromomethane	ND	ND	NC	20
Vinyl chloride	ND	ND	NC	20
Chloroethane	ND	ND	NC	20
1,1-Dichloroethene	ND	ND	NC	20
trans-1,2-Dichloroethene	ND	ND	NC	20
cis-1,2-Dichloroethene	0.38J	0.40J	NC	20
Trichloroethene	0.54	0.59	9	20
1,2-Dichlorobenzene	ND	ND	NC	20
1,3-Dichlorobenzene	ND	ND	NC	20
1,4-Dichlorobenzene	ND	ND	NC	20
Styrene	ND	ND	NC	20
o-Xylene	ND	ND	NC	20
1,1-Dichloropropene	ND	ND	NC	20
2,2-Dichloropropane	ND	ND	NC	20
1,1,1,2-Tetrachloroethane	ND	ND	NC	20
1,2,3-Trichloropropane	ND	ND	NC	20
Bromochloromethane	ND	ND	NC	20
n-Butylbenzene	ND	ND	NC	20

* Values outside of QC limits.

COMMENTS: _____

FORM III 524.2

3A
LAB DUPLICATE
WATER VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1223074 Matrix: Water
Lab Sample ID : WG580980-3 Injected: 12/20/12 16:28 Lab File ID: 1220A13.D
Client Sample ID : DUP

COMPOUND	SAMPLE CONCENTRATION (ug/l)	DUP CONCENTRATION (ug/l)	DUP % RPD	DUP RPD LIMIT
Dichlorodifluoromethane	ND	ND	NC	20
Hexachlorobutadiene	ND	ND	NC	20
Isopropylbenzene	ND	ND	NC	20
p-Isopropyltoluene	ND	ND	NC	20
Naphthalene	ND	ND	NC	20
n-Propylbenzene	ND	ND	NC	20
sec-Butylbenzene	ND	ND	NC	20
tert-Butylbenzene	ND	ND	NC	20
1,2,3-Trichlorobenzene	ND	ND	NC	20
1,2,4-Trichlorobenzene	ND	ND	NC	20
1,2,4-Trimethylbenzene	ND	ND	NC	20
1,3,5-Trimethylbenzene	ND	ND	NC	20
Bromobenzene	ND	ND	NC	20
o-Chlorotoluene	ND	ND	NC	20
p-Chlorotoluene	ND	ND	NC	20
Dibromomethane	ND	ND	NC	20
1,2-Dibromoethane	ND	ND	NC	20
1,2-Dibromo-3-chloropropane	ND	ND	NC	20
1,3-Dichloropropane	ND	ND	NC	20
Methyl tert butyl ether	ND	ND	NC	20
XYLENE (TOTAL)	ND	ND	NC	20

* Values outside of QC limits.

COMMENTS: _____

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FORM III 524.2

3A
LAB CONTROL SAMPLE RECOVERY
WATER VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1223074 Matrix: Water
Lab Control Sample: WG580980-1LCS Injected: 12/20/12 09:09 Lab File ID: 1220A01.D

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	LCS CONCENTRATION (ug/l)	LCS % REC	QC. LIMITS REC.
Methylene chloride	4	NA	3.8	96	70-130
1,1-Dichloroethane	4	NA	4.0	100	70-130
Chloroform	4	NA	3.9	99	70-130
Carbon tetrachloride	4	NA	3.7	94	70-130
1,2-Dichloropropane	4	NA	3.9	99	70-130
Dibromochloromethane	4	NA	3.6	91	70-130
1,1,2-Trichloroethane	4	NA	3.9	98	70-130
Tetrachloroethene	4	NA	4.0	101	70-130
Chlorobenzene	4	NA	3.9	99	70-130
Trichlorofluoromethane	4	NA	4.0	100	70-130
1,2-Dichloroethane	4	NA	3.9	98	70-130
1,1,1-Trichloroethane	4	NA	3.9	98	70-130
Bromodichloromethane	4	NA	3.7	92	70-130
trans-1,3-Dichloropropen	4	NA	3.5	87	70-130
cis-1,3-Dichloropropene	4	NA	3.7	94	70-130
Bromoform	4	NA	3.3	83	70-130
1,1,2,2-Tetrachloroethan	4	NA	3.8	95	70-130
Benzene	4	NA	4.0	100	70-130
Toluene	4	NA	4.0	101	70-130
Ethylbenzene	4	NA	4.0	99	70-130
p/m-Xylenes	8	NA	8.0	101	70-130
Chloromethane	4	NA	3.5	88	70-130
Bromomethane	4	NA	4.7	118	70-130
Vinyl chloride	4	NA	4.0	101	70-130
Chloroethane	4	NA	4.0	101	70-130
1,1-Dichloroethene	4	NA	4.0	100	70-130
trans-1,2-Dichloroethene	4	NA	4.0	101	70-130
cis-1,2-Dichloroethene	4	NA	4.0	100	70-130
Trichloroethene	4	NA	4.0	99	70-130
1,2-Dichlorobenzene	4	NA	3.8	95	70-130
1,3-Dichlorobenzene	4	NA	3.9	98	70-130
1,4-Dichlorobenzene	4	NA	3.8	96	70-130
Styrene	4	NA	4.0	100	70-130
o-Xylenes	4	NA	4.0	100	70-130
1,1-Dichloropropene	4	NA	3.9	98	70-130

* Values outside of QC limits.

COMMENTS: _____

FORM III 524.2

3A
LAB CONTROL SAMPLE RECOVERY
WATER VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1223074 Matrix: Water
Lab Control Sample: WG580980-1LCS Injected: 12/20/12 09:09 Lab File ID: 1220A01.D

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	LCS CONCENTRATION (ug/l)	LCS % REC	QC. LIMITS REC.
2,2-Dichloropropane	4	NA	3.6	90	70-130
1,1,1,2-Tetrachloroethan	4	NA	3.8	96	70-130
1,2,3-Trichloropropane	4	NA	4.0	99	70-130
Bromochloromethane	4	NA	4.0	101	70-130
n-Butylbenzene	4	NA	3.8	96	70-130
Dichlorodifluoromethane	4	NA	4.0	100	70-130
Hexachlorobutadiene	4	NA	3.8	96	70-130
Isopropylbenzene	4	NA	4.0	99	70-130
p-Isopropyltoluene	4	NA	3.9	98	70-130
Naphthalene	4	NA	3.6	91	70-130
n-Propylbenzene	4	NA	3.9	97	70-130
sec-Butylbenzene	4	NA	3.9	98	70-130
tert-Butylbenzene	4	NA	3.9	97	70-130
1,2,3-Trichlorobenzene	4	NA	3.7	94	70-130
1,2,4-Trichlorobenzene	4	NA	3.8	96	70-130
1,2,4,-Trimethylbenzene	4	NA	3.9	98	70-130
1,3,5-Trimethylbenzene	4	NA	3.9	98	70-130
Bromobenzene	4	NA	3.9	97	70-130
o-Chlorotoluene	4	NA	3.9	99	70-130
p-Chlorotoluene	4	NA	3.9	97	70-130
Dibromomethane	4	NA	4.0	100	70-130
1,2-Dibromoethane	4	NA	3.8	94	70-130
1,2-Dibromo-3-chloroprop	4	NA	3.5	89	70-130
1,3-Dichloropropane	4	NA	3.9	97	70-130
methyl-tert-butyl ether	4	NA	4.2	106	70-130

* Values outside of QC limits.

COMMENTS: _____

FORM III 524.2

3A

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER VOLATILE

Lab Name: Alpha Analytical Labs

SDG No.: L1223074 Matrix: Water

Client Sample ID : RW Injected: 12/20/12 12:57 Lab File ID: 1220A07.D

Matrix Spike : WG580980-4 Injected: 12/20/12 17:03 Lab File ID: 1220A14.D

Matrix Spike Dup : WG580980-5 Injected: 12/20/12 17:38 Lab File ID: 1220A15.D

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENTRATION (ug/l)	MS % REC	QC. LIMITS REC.
Methylene chloride	4	ND	4.3	108	70-130
1,1-Dichloroethane	4	ND	4.5	113	70-130
Chloroform	4	ND	4.6	116	70-130
Carbon tetrachloride	4	ND	4.7	117	70-130
1,2-Dichloropropane	4	ND	4.6	116	70-130
Dibromochloromethane	4	ND	4.4	111	70-130
1,1,2-Trichloroethane	4	ND	4.7	118	70-130
Tetrachloroethene	4	19	24.	115	70-130
Chlorobenzene	4	ND	4.0	101	70-130
Trichlorofluoromethane	4	ND	4.1	102	70-130
1,2-Dichloroethane	4	ND	4.5	114	70-130
1,1,1-Trichloroethane	4	ND	4.7	117	70-130
Bromodichloromethane	4	ND	4.4	110	70-130
trans-1,3-Dichloropropen	4	ND	4.0	100	70-130
cis-1,3-Dichloropropene	4	ND	4.8	119	70-130
Bromoform	4	ND	4.1	103	70-130
1,1,2,2-Tetrachloroethan	4	ND	4.5	114	70-130
Benzene	4	ND	4.5	113	70-130
Toluene	4	ND	4.6	116	70-130
Ethylbenzene	4	ND	4.4	109	70-130
p/m-Xylenes	8	ND	8.4	106	70-130
Chloromethane	4	ND	3.4	84	70-130
Bromomethane	4	ND	4.4	109	70-130
Vinyl chloride	4	ND	4.7	118	70-130
Chloroethane	4	ND	4.2	104	70-130
1,1-Dichloroethene	4	ND	4.5	112	70-130
trans-1,2-Dichloroethene	4	ND	4.6	116	70-130
cis-1,2-Dichloroethene	4	0.42J	4.9	123	70-130
Trichloroethene	4	0.59	5.3	118	70-130
1,2-Dichlorobenzene	4	ND	3.8	96	70-130
1,3-Dichlorobenzene	4	ND	3.9	98	70-130
1,4-Dichlorobenzene	4	ND	4.2	104	70-130
Styrene	4	ND	4.3	108	70-130
o-Xylenes	4	ND	4.0	100	70-130
1,1-Dichloropropene	4	ND	4.7	118	70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III 524.2

3A

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER VOLATILE

Lab Name: Alpha Analytical Labs

SDG No.: L1223074 Matrix: Water

Client Sample ID : RW Injected: 12/20/12 12:57 Lab File ID: 1220A07.D

Matrix Spike : WG580980-4 Injected: 12/20/12 17:03 Lab File ID: 1220A14.D

Matrix Spike Dup : WG580980-5 Injected: 12/20/12 17:38 Lab File ID: 1220A15.D

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENTRATION (ug/l)	MS % REC	QC. LIMITS REC.
2,2-Dichloropropane	4	ND	4.0	99	70-130
1,1,1,2-Tetrachloroethan	4	ND	4.5	112	70-130
1,2,3-Trichloropropane	4	ND	4.4	111	70-130
Bromochloromethane	4	ND	4.8	120	70-130
n-Butylbenzene	4	ND	4.2	106	70-130
Dichlorodifluoromethane	4	ND	3.8	96	70-130
Hexachlorobutadiene	4	ND	4.4	109	70-130
Isopropylbenzene	4	ND	4.1	103	70-130
p-Isopropyltoluene	4	ND	4.1	102	70-130
Naphthalene	4	ND	3.9	98	70-130
n-Propylbenzene	4	ND	4.0	100	70-130
sec-Butylbenzene	4	ND	4.1	102	70-130
tert-Butylbenzene	4	ND	4.1	102	70-130
1,2,3-Trichlorobenzene	4	ND	4.1	104	70-130
1,2,4-Trichlorobenzene	4	ND	4.0	100	70-130
1,2,4,-Trimethylbenzene	4	ND	4.3	108	70-130
1,3,5-Trimethylbenzene	4	ND	4.5	114	70-130
Bromobenzene	4	ND	4.3	108	70-130
o-Chlorotoluene	4	ND	4.0	101	70-130
p-Chlorotoluene	4	ND	4.0	99	70-130
Dibromomethane	4	ND	4.4	110	70-130
1,2-Dibromoethane	4	ND	4.4	109	70-130
1,2-Dibromo-3-chloroprop	4	ND	4.0	99	70-130
1,3-Dichloropropane	4	ND	4.6	116	70-130
methyl-tert-butyl ether	4	ND	4.7	118	70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III 524.2

3A

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER VOLATILE

Lab Name: Alpha Analytical Labs

SDG No.: L1223074 Matrix: Water

Client Sample ID : RW Injected: 12/20/12 12:57 Lab File ID: 1220A07.D

Matrix Spike : WG580980-4 Injected: 12/20/12 17:03 Lab File ID: 1220A14.D

Matrix Spike Dup : WG580980-5MSD Injected: 12/20/12 17:38 Lab File ID: 1220A15.D

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENTRATION (ug/l)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Methylene chloride	4	4.2	106	2	20	70-130
1,1-Dichloroethane	4	4.5	113	0	20	70-130
Chloroform	4	4.6	116	0	20	70-130
Carbon tetrachloride	4	4.8	120	2	20	70-130
1,2-Dichloropropane	4	4.6	114	0	20	70-130
Dibromochloromethane	4	4.1	103	7	20	70-130
1,1,2-Trichloroethane	4	4.3	108	9	20	70-130
Tetrachloroethene	4	23.	111	4	20	70-130
Chlorobenzene	4	4.0	99	0	20	70-130
Trichlorofluoromethane	4	4.2	104	2	20	70-130
1,2-Dichloroethane	4	4.3	108	5	20	70-130
1,1,1-Trichloroethane	4	4.7	117	0	20	70-130
Bromodichloromethane	4	4.2	106	5	20	70-130
trans-1,3-Dichloropropen	4	3.9	98	3	20	70-130
cis-1,3-Dichloropropene	4	4.6	114	4	20	70-130
Bromoform	4	3.8	96	8	20	70-130
1,1,2,2-Tetrachloroethan	4	4.1	103	9	20	70-130
Benzene	4	4.5	112	0	20	70-130
Toluene	4	4.6	116	0	20	70-130
Ethylbenzene	4	4.3	108	2	20	70-130
p/m-Xylenes	8	8.5	106	1	20	70-130
Chloromethane	4	3.5	87	3	20	70-130
Bromomethane	4	4.4	110	0	20	70-130
Vinyl chloride	4	4.7	117	0	20	70-130
Chloroethane	4	4.2	104	0	20	70-130
1,1-Dichloroethene	4	4.4	111	2	20	70-130
trans-1,2-Dichloroethene	4	4.6	115	0	20	70-130
cis-1,2-Dichloroethene	4	4.9	123	0	20	70-130
Trichloroethene	4	5.3	116	0	20	70-130
1,2-Dichlorobenzene	4	3.8	96	0	20	70-130
1,3-Dichlorobenzene	4	3.9	98	0	20	70-130
1,4-Dichlorobenzene	4	4.1	103	2	20	70-130
Styrene	4	4.2	105	2	20	70-130
o-Xylenes	4	4.0	99	0	20	70-130
1,1-Dichloropropene	4	4.7	118	0	20	70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III 524.2

3A

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER VOLATILE

Lab Name: Alpha Analytical Labs

SDG No.: L1223074 Matrix: Water

Client Sample ID : RW Injected: 12/20/12 12:57 Lab File ID: 1220A07.D

Matrix Spike : WG580980-4 Injected: 12/20/12 17:03 Lab File ID: 1220A14.D

Matrix Spike Dup : WG580980-5MSD Injected: 12/20/12 17:38 Lab File ID: 1220A15.D

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENTRATION (ug/l)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
2,2-Dichloropropane	4	4.3	108	7	20	70-130
1,1,1,2-Tetrachloroethan	4	4.4	109	2	20	70-130
1,2,3-Trichloropropane	4	4.0	100	10	20	70-130
Bromochloromethane	4	4.6	114	4	20	70-130
n-Butylbenzene	4	4.3	108	2	20	70-130
Dichlorodifluoromethane	4	3.8	94	0	20	70-130
Hexachlorobutadiene	4	4.5	112	2	20	70-130
Isopropylbenzene	4	4.0	101	2	20	70-130
p-Isopropyltoluene	4	4.0	101	2	20	70-130
Naphthalene	4	3.7	93	5	20	70-130
n-Propylbenzene	4	4.0	99	0	20	70-130
sec-Butylbenzene	4	4.1	102	0	20	70-130
tert-Butylbenzene	4	4.1	102	0	20	70-130
1,2,3-Trichlorobenzene	4	4.1	103	0	20	70-130
1,2,4-Trichlorobenzene	4	3.9	99	3	20	70-130
1,2,4,-Trimethylbenzene	4	4.3	107	0	20	70-130
1,3,5-Trimethylbenzene	4	4.5	112	0	20	70-130
Bromobenzene	4	4.1	104	5	20	70-130
o-Chlorotoluene	4	4.0	101	0	20	70-130
p-Chlorotoluene	4	3.9	98	3	20	70-130
Dibromomethane	4	4.2	105	5	20	70-130
1,2-Dibromoethane	4	4.0	99	10	20	70-130
1,2-Dibromo-3-chloroprop	4	3.5	88	13	20	70-130
1,3-Dichloropropane	4	4.4	110	4	20	70-130
methyl-tert-butyl ether	4	4.5	112	4	20	70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III 524.2

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

WG580980-2BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Lab File ID: 1220A03 Lab Sample ID: WG580980-2

Date Analyzed: 12/20/12 Time Analyzed: 10:36

Instrument ID: BUNDY.I

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG580980-1LCS	WG580980-1	1220A01	12/20/12 09:09
02	FIELD BLANK	L1223074-07	1220A05	12/20/12 11:46
03	TRIP BLANK	L1223074-08	1220A06	12/20/12 12:21
04	RW	L1223074-01	1220A07	12/20/12 12:57
05	DUP	L1223074-02	1220A08	12/20/12 13:32
06	STEFF	L1223074-03	1220A09	12/20/12 14:07
07	DIST	L1223074-04	1220A10	12/20/12 14:42
08	MW-4	L1223074-05	1220A11	12/20/12 15:17
09	MW-11	L1223074-06	1220A12	12/20/12 15:53
10	DUPDUP	WG580980-3	1220A13	12/20/12 16:28
11	RWMS	WG580980-4	1220A14	12/20/12 17:03
12	RWMSD	WG580980-5	1220A15	12/20/12 17:38

COMMENTS: _____

FORM IV 524.2 LOW

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Lab File ID: BFB1213B_tune

BFB Injection Date: 12/13/12

Instrument ID: Bundy.i

BFB Injection Time: 08:15

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
95	Base Peak, 100% relative abundance	100
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	45.8
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.33)1
174	Greater than 50.0 of mass 95	86.7
175	5.0 - 9.0% of mass 174	6.6 (7.58)1
176	95.0 - 101% of mass 174	83.8 (96.6)1
177	5.0 - 9.0% of mass 176	5.6 (6.70)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	524 LVL 2	524 LVL 2	1213A04	12/13/12	11:45
02	524 LVL 1	524 LVL 1	1213A05	12/13/12	13:18
03	524 LVL 3	524 LVL 3	1213A06	12/13/12	15:52
04	524 LVL 4	524 LVL 4	1213A07	12/13/12	16:28
05	524 LVL 5	524 LVL 5	1213A08	12/13/12	17:03
06	524 LVL 6	524 LVL 6	1213A09	12/13/12	17:38
07	524 LVL 7	524 LVL 7	1213A10	12/13/12	18:13
08	524 LVL 8	524 LVL 8	1213A11	12/13/12	18:48

FORM V 524.2

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Lab File ID: BFB1214B_tune

BFB Injection Date: 12/14/12

Instrument ID: Bundy.i

BFB Injection Time: 08:49

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
95	Base Peak, 100% relative abundance	100
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	45.5
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.28)1
174	Greater than 50.0 of mass 95	90.8
175	5.0 - 9.0% of mass 174	6.7 (7.37)1
176	95.0 - 101% of mass 174	88.6 (97.5)1
177	5.0 - 9.0% of mass 176	5.6 (6.35)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ICV Quant Report	ICV Quant Repo	1214A01	12/14/12	09:09

FORM V 524.2

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Lab File ID: BFB1220A_tune

BFB Injection Date: 12/20/12

Instrument ID: Bundy.i

BFB Injection Time: 08:25

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
95	Base Peak, 100% relative abundance	100
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	46.6
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.27)1
174	Greater than 50.0 of mass 95	91.5
175	5.0 - 9.0% of mass 174	6.8 (7.45)1
176	95.0 - 101% of mass 174	87.7 (95.8)1
177	5.0 - 9.0% of mass 176	5.6 (6.36)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	524 CCV	524 CCV	1220A01	12/20/12	09:09
02	WG580980-1LCS	WG580980-1	1220A01	12/20/12	09:09
03	WG580980-2BLANK	WG580980-2	1220A03	12/20/12	10:36
04	FIELD BLANK	L1223074-07	1220A05	12/20/12	11:46
05	TRIP BLANK	L1223074-08	1220A06	12/20/12	12:21
06	RW	L1223074-01	1220A07	12/20/12	12:57
07	DUP	L1223074-02	1220A08	12/20/12	13:32
08	STEFF	L1223074-03	1220A09	12/20/12	14:07
09	DIST	L1223074-04	1220A10	12/20/12	14:42
10	MW-4	L1223074-05	1220A11	12/20/12	15:17
11	MW-11	L1223074-06	1220A12	12/20/12	15:53
12	DUPDUP	WG580980-3	1220A13	12/20/12	16:28
13	RWMS	WG580980-4	1220A14	12/20/12	17:03
14	RWMSD	WG580980-5	1220A15	12/20/12	17:38

FORM V 524.2

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Lab File ID (Standard): 1220A01_ccal Date Analyzed: 20-DEC-2012

Instrument ID : Bundy.i Time Analyzed: 09:09

		IS1(FLB) AREA	RT	IS2(CBZ) AREA	RT	IS3(DCB) AREA	RT
	12 HOUR STD	257505	8.20	246648	11.70	135773	14.61
	UPPER LIMIT	515010	8.70	493296	12.20	271546	15.11
	LOWER LIMIT	128753	7.70	123324	11.20	67887	14.11
	EPA SAMPLE NO.						
01	WG580980-1LCS	257505	8.20	246648	11.70	135773	14.61
02	WG580980-2BLANK	249497	8.20	239637	11.70	135890	14.61
03	FIELD BLANK	239471	8.21	241689	11.70	135690	14.61
04	TRIP BLANK	246974	8.20	235597	11.70	130521	14.61
05	RW	236867	8.20	236777	11.70	132788	14.61
06	DUP	248837	8.21	238596	11.70	132934	14.61
07	STEFF	239209	8.21	234368	11.70	131697	14.61
08	DIST	231237	8.20	233484	11.70	129496	14.61
09	MW-4	236429	8.20	229950	11.70	130305	14.61
10	MW-11	229264	8.20	225409	11.70	126821	14.61
11	WG580980-3DUP	234412	8.20	224691	11.70	125035	14.61
12	RWMS	228582	8.20	227077	11.70	127297	14.61
13	RWMSD	228551	8.20	228488	11.70	124271	14.61

IS1(FLB) = FLUOROBENZENE
IS2(CBZ) = CHLOROBENZENE-D5
IS3(DCB) = 1,4-DICHLOROBENZENE-D4

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

* Values outside of QC limits.

Volatiles Sample Data

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-01	Date Collected	: 12/19/12 11:20
Client ID	: RW	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:57
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A07	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	19	0.50	0.16	
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-01	Date Collected	: 12/19/12 11:20
Client ID	: RW	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:57
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A07	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	0.42	0.50	0.13	J
79-01-6	Trichloroethene	0.59	0.50	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-01	Date Collected	: 12/19/12 11:20
Client ID	: RW	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:57
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A07	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-02	Date Collected	: 12/19/12 00:00
Client ID	: DUP	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 13:32
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A08	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	18	0.50	0.16	
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-02	Date Collected	: 12/19/12 00:00
Client ID	: DUP	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 13:32
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A08	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	0.38	0.50	0.13	J
79-01-6	Trichloroethene	0.54	0.50	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-02	Date Collected	: 12/19/12 00:00
Client ID	: DUP	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 13:32
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A08	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-03	Date Collected	: 12/19/12 11:35
Client ID	: STEFF	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:07
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A09	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-03	Date Collected	: 12/19/12 11:35
Client ID	: STEFF	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:07
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A09	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-03	Date Collected	: 12/19/12 11:35
Client ID	: STEFF	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:07
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A09	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-04	Date Collected	: 12/19/12 11:45
Client ID	: DIST	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:42
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A10	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	0.26	0.50	0.12	J
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	2.1	0.50	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	0.78	0.50	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	2.3	0.50	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-04	Date Collected	: 12/19/12 11:45
Client ID	: DIST	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:42
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A10	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-04	Date Collected	: 12/19/12 11:45
Client ID	: DIST	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 14:42
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A10	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-05	Date Collected	: 12/19/12 12:00
Client ID	: MW-4	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:17
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A11	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	0.17	0.50	0.16	J
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-05	Date Collected	: 12/19/12 12:00
Client ID	: MW-4	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:17
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A11	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	0.61	0.50	0.13	
79-01-6	Trichloroethene	0.24	0.50	0.14	J
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-05	Date Collected	: 12/19/12 12:00
Client ID	: MW-4	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:17
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A11	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-06	Date Collected	: 12/19/12 12:30
Client ID	: MW-11	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:53
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A12	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	0.15	0.50	0.12	J
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	0.57	0.50	0.16	
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-06	Date Collected	: 12/19/12 12:30
Client ID	: MW-11	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:53
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A12	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-06	Date Collected	: 12/19/12 12:30
Client ID	: MW-11	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 15:53
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A12	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-07	Date Collected	: 12/19/12 12:45
Client ID	: FIELD BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 11:46
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A05	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	0.18	0.50	0.12	J
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-07	Date Collected	: 12/19/12 12:45
Client ID	: FIELD BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 11:46
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A05	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-07	Date Collected	: 12/19/12 12:45
Client ID	: FIELD BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 11:46
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A05	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-08	Date Collected	: 12/19/12 00:00
Client ID	: TRIP BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:21
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A06	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-08	Date Collected	: 12/19/12 00:00
Client ID	: TRIP BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:21
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A06	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: L1223074-08	Date Collected	: 12/19/12 00:00
Client ID	: TRIP BLANK	Date Received	: 12/19/12
Sample Location	: BEDFORD, NY	Date Analyzed	: 12/20/12 12:21
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A06	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: WG580980-2	Date Collected	: NA
Client ID	: WG580980-2BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/20/12 10:36
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A03	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	ND	0.50	0.16	U
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: WG580980-2	Date Collected	: NA
Client ID	: WG580980-2BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/20/12 10:36
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A03	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.13	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: WG580980-2	Date Collected	: NA
Client ID	: WG580980-2BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/20/12 10:36
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: KL
Lab File ID	: 1220A03	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: WG580980-3	Date Collected	: 12/19/12 00:00
Client ID	: DUPDUP	Date Received	: 12/19/12
Sample Location	:	Date Analyzed	: 12/20/12 16:28
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: kl
Lab File ID	: 1220A13	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	0.50	0.12	U
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	U
67-66-3	Chloroform	ND	0.50	0.12	U
56-23-5	Carbon tetrachloride	ND	0.50	0.16	U
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	U
124-48-1	Dibromochloromethane	ND	0.50	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.15	U
127-18-4	Tetrachloroethene	19.	0.50	0.16	
108-90-7	Chlorobenzene	ND	0.50	0.15	U
75-69-4	Trichlorofluoromethane	ND	0.50	0.16	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.14	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.15	U
75-27-4	Bromodichloromethane	ND	0.50	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.08	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	U
75-25-2	Bromoform	ND	0.50	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	U
71-43-2	Benzene	ND	0.50	0.14	U
108-88-3	Toluene	ND	0.50	0.13	U
100-41-4	Ethylbenzene	ND	0.50	0.14	U
179601-23-1	p/m-Xylene	ND	1.0	0.32	U
74-87-3	Chloromethane	ND	0.50	0.16	U
74-83-9	Bromomethane	ND	0.50	0.16	U
75-01-4	Vinyl chloride	ND	0.50	0.16	U
75-00-3	Chloroethane	ND	0.50	0.16	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: WG580980-3	Date Collected	: 12/19/12 00:00
Client ID	: DUPDUP	Date Received	: 12/19/12
Sample Location	:	Date Analyzed	: 12/20/12 16:28
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: kl
Lab File ID	: 1220A13	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	0.40	0.50	0.13	J
79-01-6	Trichloroethene	0.59	0.50	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.16	U
100-42-5	Styrene	ND	0.50	0.16	U
95-47-6	o-Xylene	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
594-20-7	2,2-Dichloropropane	ND	0.50	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	U
74-97-5	Bromochloromethane	ND	0.50	0.15	U
104-51-8	n-Butylbenzene	ND	0.50	0.13	U
75-71-8	Dichlorodifluoromethane	ND	0.50	0.16	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.16	U
98-82-8	Isopropylbenzene	ND	0.50	0.16	U
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	U
91-20-3	Naphthalene	ND	0.50	0.15	U
103-65-1	n-Propylbenzene	ND	0.50	0.14	U
135-98-8	sec-Butylbenzene	ND	0.50	0.14	U
98-06-6	tert-Butylbenzene	ND	0.50	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	U
108-86-1	Bromobenzene	ND	0.50	0.12	U
95-49-8	o-Chlorotoluene	ND	0.50	0.16	U

Form 1
Volatile

Client	: Environmental Planning and Manageme	Lab Number	: L1223074
Project Name	: KATONAH	Project Number	: 12001
Lab ID	: WG580980-3	Date Collected	: 12/19/12 00:00
Client ID	: DUPDUP	Date Received	: 12/19/12
Sample Location	:	Date Analyzed	: 12/20/12 16:28
Sample Matrix	: DW	Dilution Factor	: 1
Analytical Method	: 16,524.2	Analyst	: kl
Lab File ID	: 1220A13	Instrument ID	: BUNDY.I
Sample Amount	: 25 ml	GC Column	: RTX 502.2
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-43-4	p-Chlorotoluene	ND	0.50	0.16	U
74-95-3	Dibromomethane	ND	0.50	0.16	U
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.12	U
142-28-9	1,3-Dichloropropane	ND	0.50	0.14	U
1634-04-4	Methyl tert butyl ether	ND	0.50	0.16	U
1330-20-7	Xylene (Total)	ND	1.5	0.49	U

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\Orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A05.D
Lab Smp Id:
Inj Date : 20-DEC-2012 11:46
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-07,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 29-Dec-2012 12:00 pduczmalew Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-76524

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SI MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN	FINAL	REVIEW COMMENTS
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 chloromethane	50	Compound Not Detected.						
3 Vinyl chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 chloroethane	64	Compound Not Detected.						
6 trichlorofluoromethane	101	Compound Not Detected.						
7 1,1-dichloroethene	96	Compound Not Detected.						
8 methylene chloride	84	5.604	5.609	(0.6?%)	1567	4.43949	4.43UG	KL
9 methyl-tert-butyl ether	73	Compound Not Detected.						
10 trans-1,2-dichloroethene	96	Compound Not Detected.						
11 1,1-dichloroethane	63	Compound Not Detected.						
12 2,2-dichloropropane	77	Compound Not Detected.						
13 cis-1,2-dichloroethene	96	Compound Not Detected.						
14 chloroform	83	Compound Not Detected.						
15 bromochloromethane	128	Compound Not Detected.						
16 1,1,1-trichloroethane	97	Compound Not Detected.						
17 1,1-dichloropropene	75	Compound Not Detected.						
18 carbon tetrachloride	117	Compound Not Detected.						
19 1,2-dichloroethane	62	Compound Not Detected.						
20 benzene	78	Compound Not Detected.						
21 trichloroethene	95	8.705	8.7	(1.?%)	1521	152.		
22 dibromomethane	95	Compound Not Detected.						
23 1,2-dichloropropane	63	Compound Not Detected.						
24 bromodichloromethane	83	Compound Not Detected.						
25 2-chloroethylvinylether	63	Compound Not Detected.						
26 cis-1,3-dichloropropene	75	Compound Not Detected.						
27 toluene	91	Compound Not Detected.						
28 trans-1,3-dichloropropene	75	Compound Not Detected.						

C	Compound	TGT MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW COMMENTS
	9 1,1,2-trichloroethane	83	Compound Not Detected.						
	10 1,3-dichloropropane	76	Compound Not Detected.						
	11 tetrachloroethene	164	Compound Not Detected.						
	12 dibromochloromethane	129	Compound Not Detected.						
	13 1,2-dibromoethane	107	Compound Not Detected.						
-	14 Chlorobenzene-d5	117	11.696	11.696	(1.000)	241689	150.000		
	15 chlorobenzene	112	Compound Not Detected.						
	16 ethylbenzene	91	Compound Not Detected.						
	17 1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	18 p/m-xylenes	106	Compound Not Detected.						
	19 o-xylenes	106	Compound Not Detected.						
	20 styrene	104	Compound Not Detected.						
	21 isopropylbenzene	105	Compound Not Detected.						
	22 bromoform	173	Compound Not Detected.						
	23 1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
$	24 4-bromofluorobenzene	95	13.138	13.138	(1.000)	119152	142.414	142.41	
	25 1,2,3-trichloropropane	110	Compound Not Detected.						
	26 n-propylbenzene	91	Compound Not Detected.						
	27 bromobenzene	156	Compound Not Detected.						
	28 1,3,5-trimethylbenzene	105	Compound Not Detected.						
	29 2-chlorotoluene	126	Compound Not Detected.						
	30 p-chlorotoluene	91	Compound Not Detected.						
	31 tert-butylbenzene	119	Compound Not Detected.						
	32 1,2,4,-trimethylbenzene	105	Compound Not Detected.						
	33 sec-butylbenzene	105	Compound Not Detected.						
	34 p-isopropyltoluene	119	Compound Not Detected.						
	35 1,3-dichlorobenzene	146	Compound Not Detected.						
*	36 1,4-Dichlorobenzene-d4	152	14.612	14.611	(1.000)	135660	150.000		
	37 1,4-dichlorobenzene	146	Compound Not Detected.						
	38 n-butylbenzene	91	Compound Not Detected.						
$	39 1,2-dichlorobenzene-d4	152	15.957	15.958	(1.041)	114034	140.158	140.16	
	40 1,2-dichlorobenzene	146	Compound Not Detected.						
	41 1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	42 1,2,4-trichlorobenzene	180	Compound Not Detected.						
	43 hexachlorobutadiene	225	Compound Not Detected.						
	44 naphthalene	128	Compound Not Detected.						
	45 1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	46 Xylene (total)	106	Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A05.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	239471	-7.00
34 Chlorobenzene-d5	246648	123324	493296	241689	-2.01
56 1,4-Dichlorobenze	135773	67887	271546	135690	-0.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.21	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	102.41	102.42	80-120
$ 59 1,2-Dichlorobenzen	100.00	100.15	100.16	80-120

Data File: \\Orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A05.D

Date : 20-DEC-2012 11:46

Client ID:

Instrument: Bundy.i

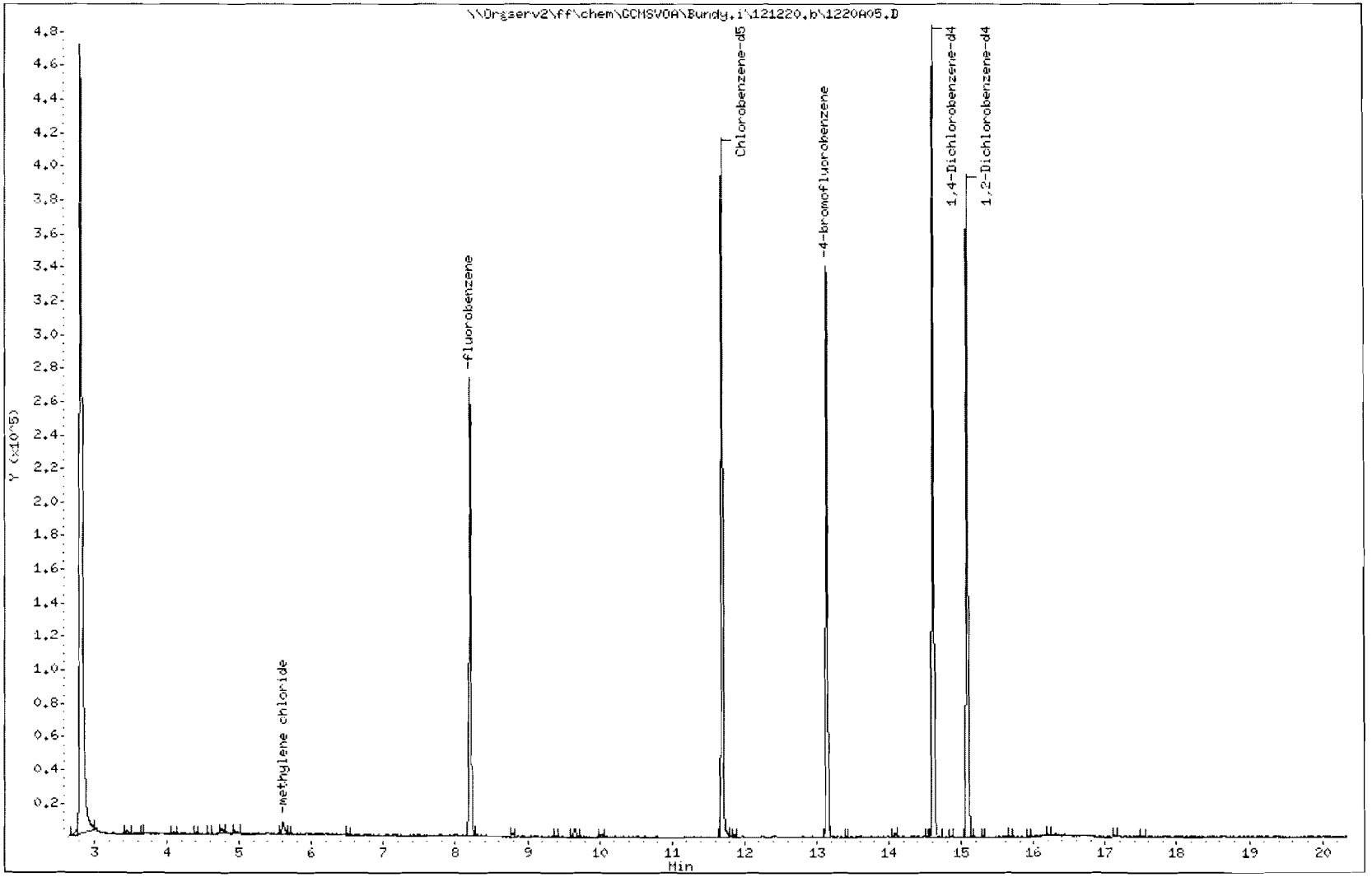
Sample Info: 11223074-07,31,25,,a

Purge Volume: 25.0

Operator: kl

Column phase:

Column diameter: 0.18



Data File: \\Orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A05.D

Date : 20-DEC-2012 11:46

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-07,31,25,,a

Purge Volume: 25.0

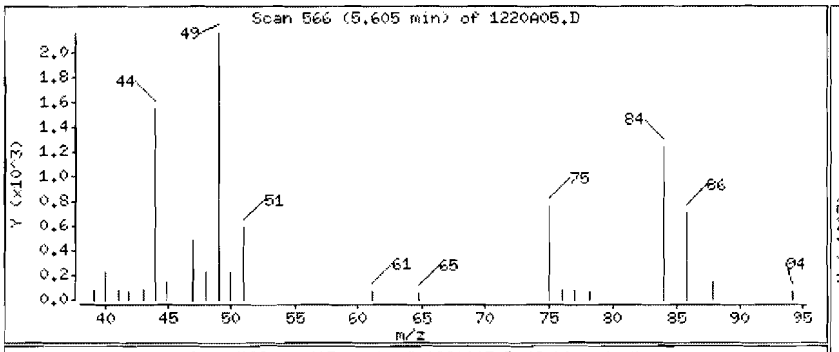
Operator: kl

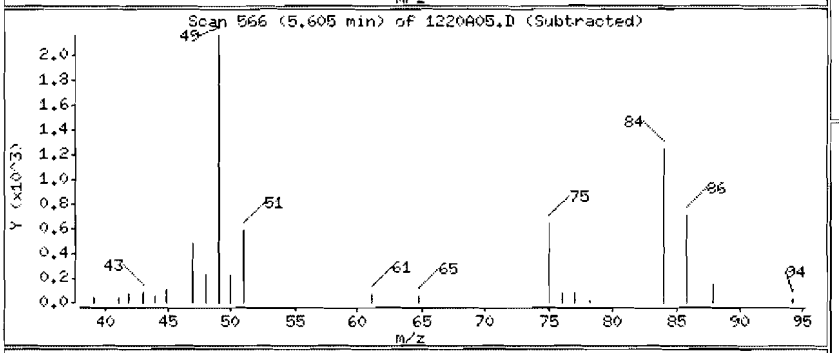
Column phase:

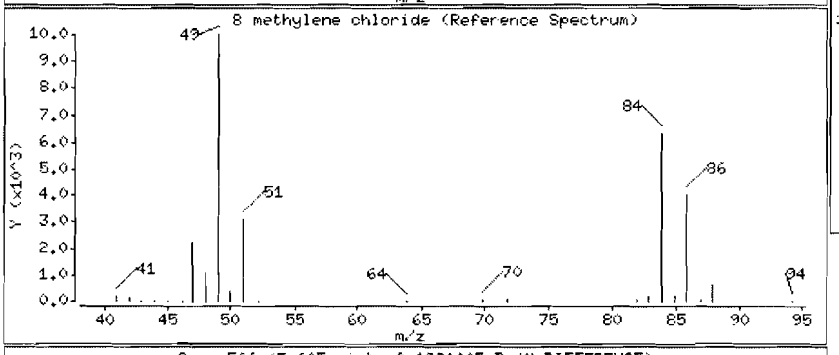
Column diameter: 0.18

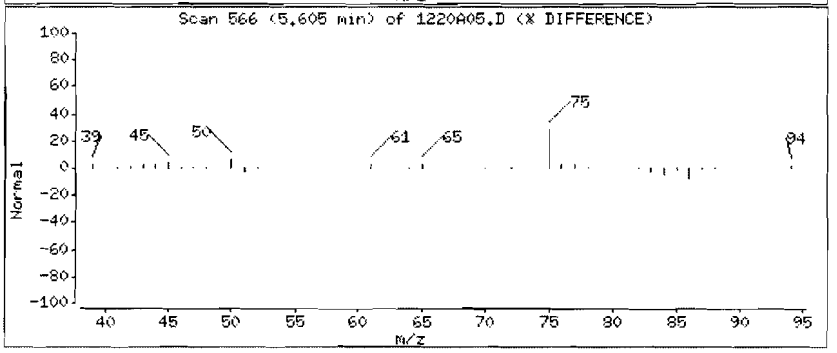
8 methylene chloride

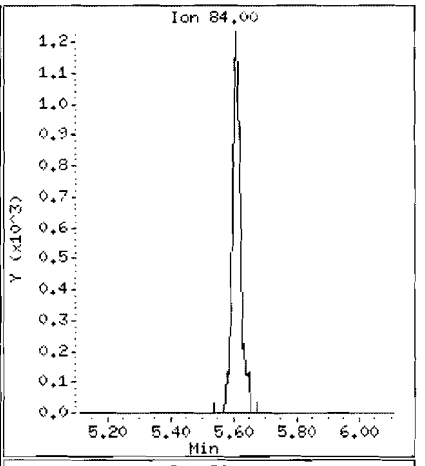
Concentration: 4.43 ngs

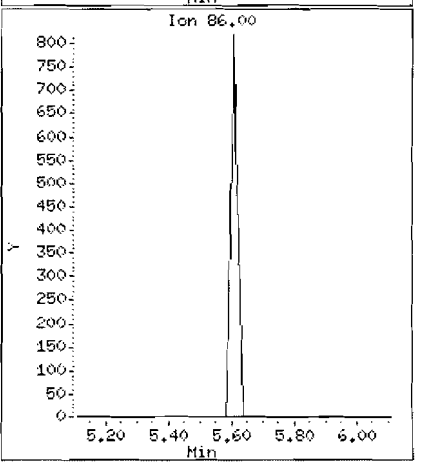












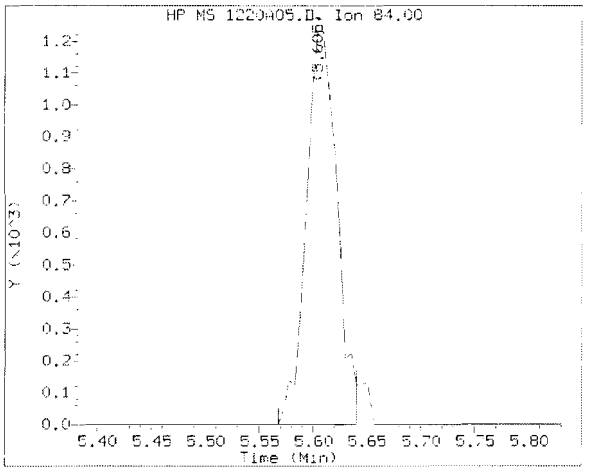
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Manual Integration

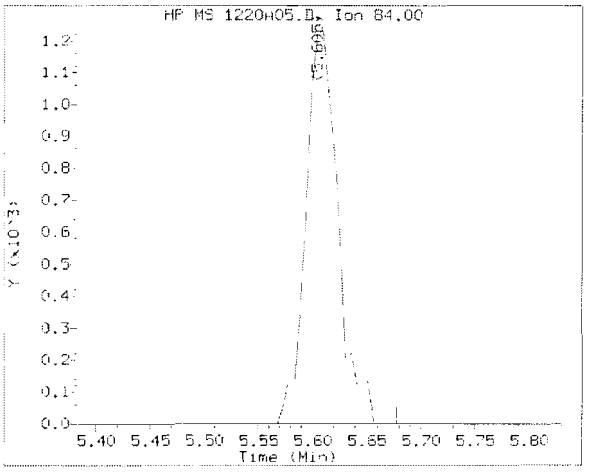
Sample Info : l1223074-07,31,25,,a
wg580980,ical7597

Instrument ID : Bundy.i
Method : 524.m
File : 1220A05.D
Injection Date : 20-DEC-2012 11:46
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: SAMPLE

Compound # 8: methylene chloride



Original Peak Response = 2486



Manual Peak Response = 2567 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo
area count.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A06.D
Lab Smp Id:
Inj Date : 20-DEC-2012 12:21
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-08,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 1,1-Dichloroethene	96	Compound Not Detected.						
8 Methylene chloride	84	Compound Not Detected.						
9 Methyl-tert-butyl ether	73	Compound Not Detected.						
10 trans-1,2-Dichloroethene	96	Compound Not Detected.						
11 1,1-Dichloroethane	63	Compound Not Detected.						
12 2,2-Dichloropropane	77	Compound Not Detected.						
13 cis-1,2-Dichloroethene	96	Compound Not Detected.						
14 Chloroform	83	Compound Not Detected.						
15 Bromochloromethane	128	Compound Not Detected.						
16 1,1,1-Trichloroethane	97	Compound Not Detected.						
17 1,1-Dichloropropene	75	Compound Not Detected.						
18 Carbon tetrachloride	117	Compound Not Detected.						
19 1,2-Dichloroethane	62	Compound Not Detected.						
20 Benzene	78	Compound Not Detected.						
* 21 Fluorobenzene	96	8.164	8.20% (1.000)	146374	100.000			
22 Trichloroethene	95	Compound Not Detected.						
23 1,2-Dichloropropane	63	Compound Not Detected.						
24 Dibromomethane	93	Compound Not Detected.						
25 Dichlorobromomethane	83	Compound Not Detected.						
26 cis-1,3-Dichloropropene	75	Compound Not Detected.						
27 Toluene	92	Compound Not Detected.						
28 trans-1,3-Dichloropropene	75	Compound Not Detected.						
29 1,1,2-Trichloroethane	83	Compound Not Detected.						

		Compound	Quant Ion	RT	Exp RT	Rel RT	Response	Concentration (ug/L)	Final Concentration (ug/L)	Reason Code
	30	1,3-Dichloropropane	76	Compound Not Detected.						
	31	Tetrachloroethene	166	Compound Not Detected.						
	32	Dibromochloromethane	129	Compound Not Detected.						
	33	1,2-Dibromoethane	107	Compound Not Detected.						
*	34	Chlorobenzene-d5	117	11.690	11.696	(1.000)	208547	150.000		
	35	Chlorobenzene	112	Compound Not Detected.						
	36	Ethylbenzene	91	Compound Not Detected.						
	37	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	38	p/m-Xylenes	106	Compound Not Detected.						
	39	o-Xylene	106	Compound Not Detected.						
	40	Styrene	104	Compound Not Detected.						
	41	Isopropylbenzene	105	Compound Not Detected.						
	42	Bromoform	173	Compound Not Detected.						
	43	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
I	44	4-Bromofluorobenzene	95	13.138	13.145	(1.125)	114259	140.852	103.59	
	45	1,2,3-Trichloropropane	110	Compound Not Detected.						
	46	n-Propylbenzene	91	Compound Not Detected.						
	47	Bromobenzene	156	Compound Not Detected.						
	48	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	49	2-Chlorotoluene	126	Compound Not Detected.						
	50	4-Chlorotoluene	91	Compound Not Detected.						
	51	tert-Butylbenzene	119	Compound Not Detected.						
	52	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	53	sec-Butylbenzene	105	Compound Not Detected.						
	54	4-Isopropyltoluene	119	Compound Not Detected.						
	55	1,3-Dichlorobenzene	146	Compound Not Detected.						
*	56	1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	150977	150.000		
	57	1,4-Dichlorobenzene	146	Compound Not Detected.						
	58	n-Butylbenzene	91	Compound Not Detected.						
S	59	1,2-Dichlorobenzene-d4	152	15.063	15.063	(1.031)	109111	94.606	94.60	
	60	1,2-Dichlorobenzene	146	Compound Not Detected.						
	61	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	62	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	63	Hexachlorobutadiene	225	Compound Not Detected.						
	64	Naphthalene	128	Compound Not Detected.						
	65	1,2,3-Trichlorobenzene	180	Compound Not Detected.						
P	66	Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A06.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	246974	-4.09
34 Chlorobenzene-d5	246648	123324	493296	235597	-4.48
56 1,4-Dichlorobenze	135773	67887	271546	130521	-3.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

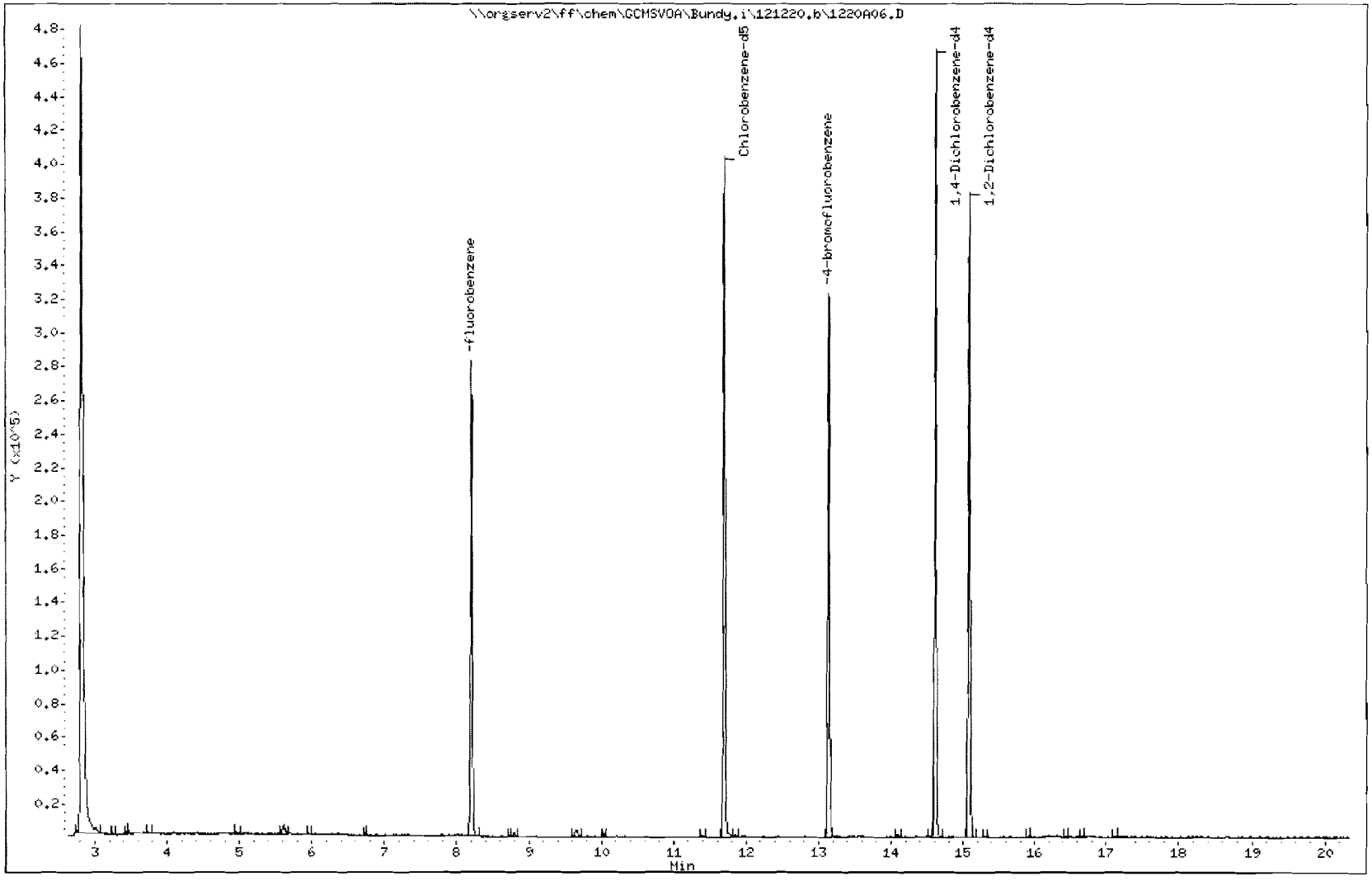
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	100.30	100.30	80-120
$ 59 1,2-Dichlorobenzen	100.00	99.66	99.67	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A06.D
Date : 20-DEC-2012 12:21
Client ID:
Sample Info: 11223074-08,31.25,,a
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A07.D
Lab Smp Id:
Inj Date : 20-DEC-2012 12:57
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-01,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	R	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW Y/N
1	dichlorodifluoromethane	85		Compound Not Detected.					
2	chloromethane	50		Compound Not Detected.					
3	vinyl chloride	62		Compound Not Detected.					
4	bromomethane	94		Compound Not Detected.					
5	chloroethane	64		Compound Not Detected.					
6	trichlorofluoromethane	101		Compound Not Detected.					
7	1,1-dichloroethene	96		Compound Not Detected.					
8	methylene chloride	84		Compound Not Detected.					
9	methyl-tert-butyl ether	73		Compound Not Detected.					
10	trans-1,2-dichloroethene	96		Compound Not Detected.					
11	1,1-dichloroethane	63		Compound Not Detected.					
12	2,2-dichloropropane	77		Compound Not Detected.					
13	cis-1,2-dichloroethene	96	6.971	6.974 (0.850)	99846	10.4413	10.49		
14	chloroform	83		Compound Not Detected.					
15	bromochloromethane	128		Compound Not Detected.					
16	1,1,1-trichloroethane	97		Compound Not Detected.					
17	1,1-dichloropropene	75		Compound Not Detected.					
18	carbon tetrachloride	117		Compound Not Detected.					
19	1,2-dichloroethane	62		Compound Not Detected.					
20	benzene	78		Compound Not Detected.					
* 21	fluorobenzene	96	8.104	8.104 (1.000)	139667	10.0000			
22	trichloroethene	95	8.404	8.404 (1.052)	97 %	14.4424	14.74		
23	1,2-dichloropropane	63		Compound Not Detected.					
24	dibromomethane	93		Compound Not Detected.					
25	bromodichloromethane	83		Compound Not Detected.					
26	cis-1,3-dichloropropene	75		Compound Not Detected.					
27	toluene	92		Compound Not Detected.					
28	trans-1,3-dichloropropene	75		Compound Not Detected.					
29	1,1,2-trichloroethane	83		Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
	29	1,3-dichloropropane	76	Compound Not Detected.						
	31	tetrachloroethene	166	10.784	10.784	(1.314)	371546	478.604	478.60	
	32	dibromochloromethane	129	Compound Not Detected.						
	33	1,2-dibromoethane	107	Compound Not Detected.						
S	34	Chlorobenzene-d5	117	11.696	11.696	(1.000)	236777	500.000		
	35	chlorobenzene	112	Compound Not Detected.						
	36	ethylbenzene	91	Compound Not Detected.						
	37	1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	38	p/m-xylenes	106	Compound Not Detected.						
	39	o-xylenes	106	Compound Not Detected.						
	40	styrene	104	Compound Not Detected.						
	41	isopropylbenzene	105	Compound Not Detected.						
	42	bromoform	173	Compound Not Detected.						
	43	1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	44	4-bromofluorobenzene	95	13.139	13.139	(1.125)	115717	100.313	101.95	
	45	1,2,3-trichloropropane	110	Compound Not Detected.						
	46	n-propylbenzene	91	Compound Not Detected.						
	47	bromobenzene	156	Compound Not Detected.						
	48	1,3,5-trimethylbenzene	105	Compound Not Detected.						
	49	2-chlorotoluene	126	Compound Not Detected.						
	50	4-chlorotoluene	91	Compound Not Detected.						
	51	tert-butylbenzene	119	Compound Not Detected.						
	52	1,2,4,5-tetramethylbenzene	134	Compound Not Detected.						
	53	sec-butylbenzene	134	Compound Not Detected.						
	54	p-isopropyltoluene	119	Compound Not Detected.						
	55	1,3-dichlorobenzene	146	Compound Not Detected.						
I	56	1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	182726	100.000		
	57	1,4-dichlorobenzene	146	Compound Not Detected.						
	58	n-butylbenzene	91	Compound Not Detected.						
S	59	1,2-dichlorobenzene-d4	152	15.087	15.085	(1.033)	111154	99.918	99.92	
	60	1,2-dibromobenzene	140	Compound Not Detected.						
	61	1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	62	1,2,4-trichlorobenzene	180	Compound Not Detected.						
	63	hexachlorobutadiene	225	Compound Not Detected.						
	64	naphthalene	128	Compound Not Detected.						
	65	1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	66	Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A07.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	236867	-8.01
34 Chlorobenzene-d5	246648	123324	493296	236777	-4.00
56 1,4-Dichlorobenze	135773	67887	271546	132788	-2.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

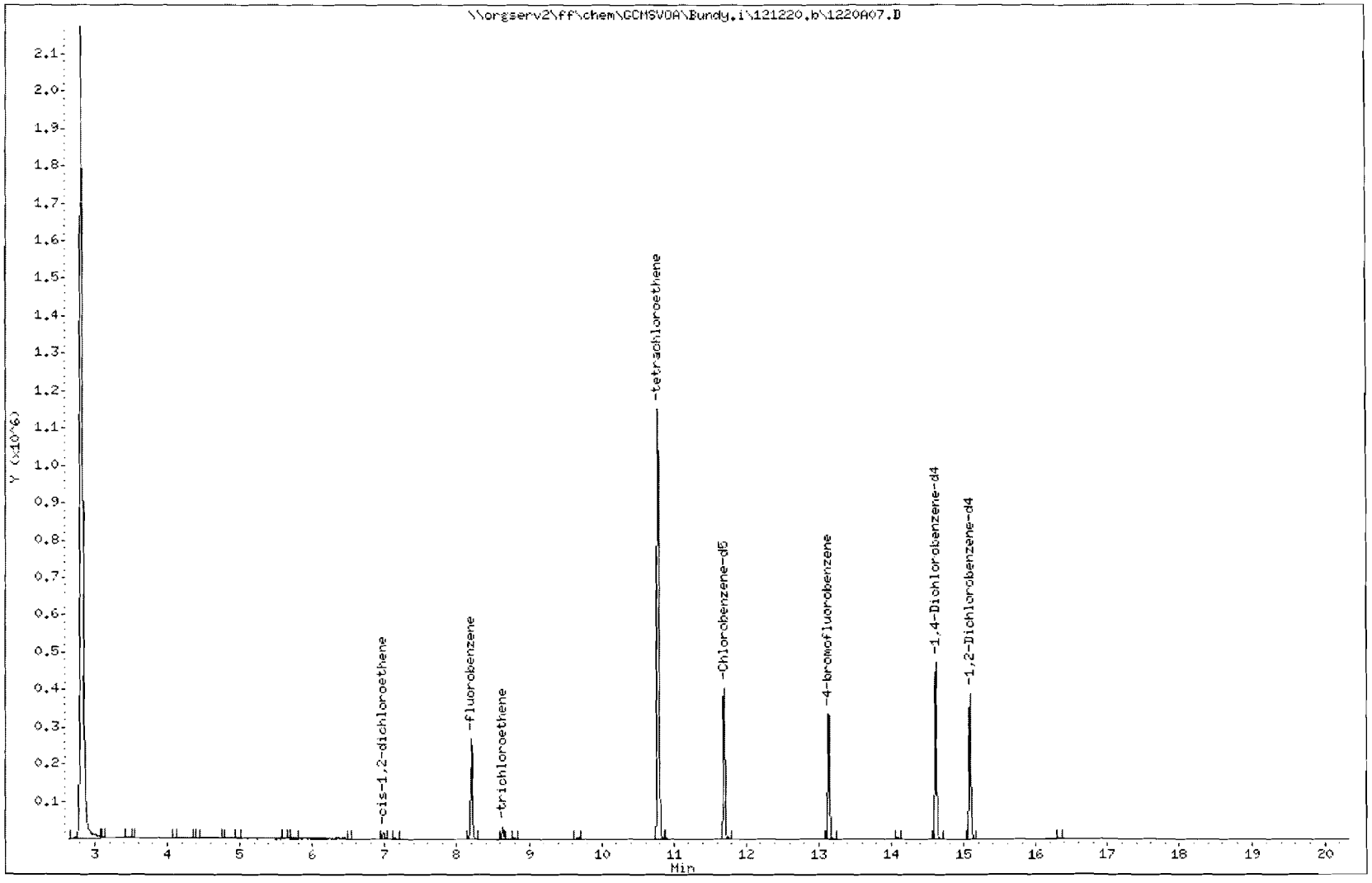
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	100.95	100.95	80-120
$ 59 1,2-Dichlorobenzen	100.00	99.92	99.92	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A07.D
Date : 20-DEC-2012 12:57
Client ID:
Sample Info: I1223074-01,31.25,,a
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A07.D

Date : 20-DEC-2012 12:57

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-01,31.25,,a

Purge Volume: 25.0

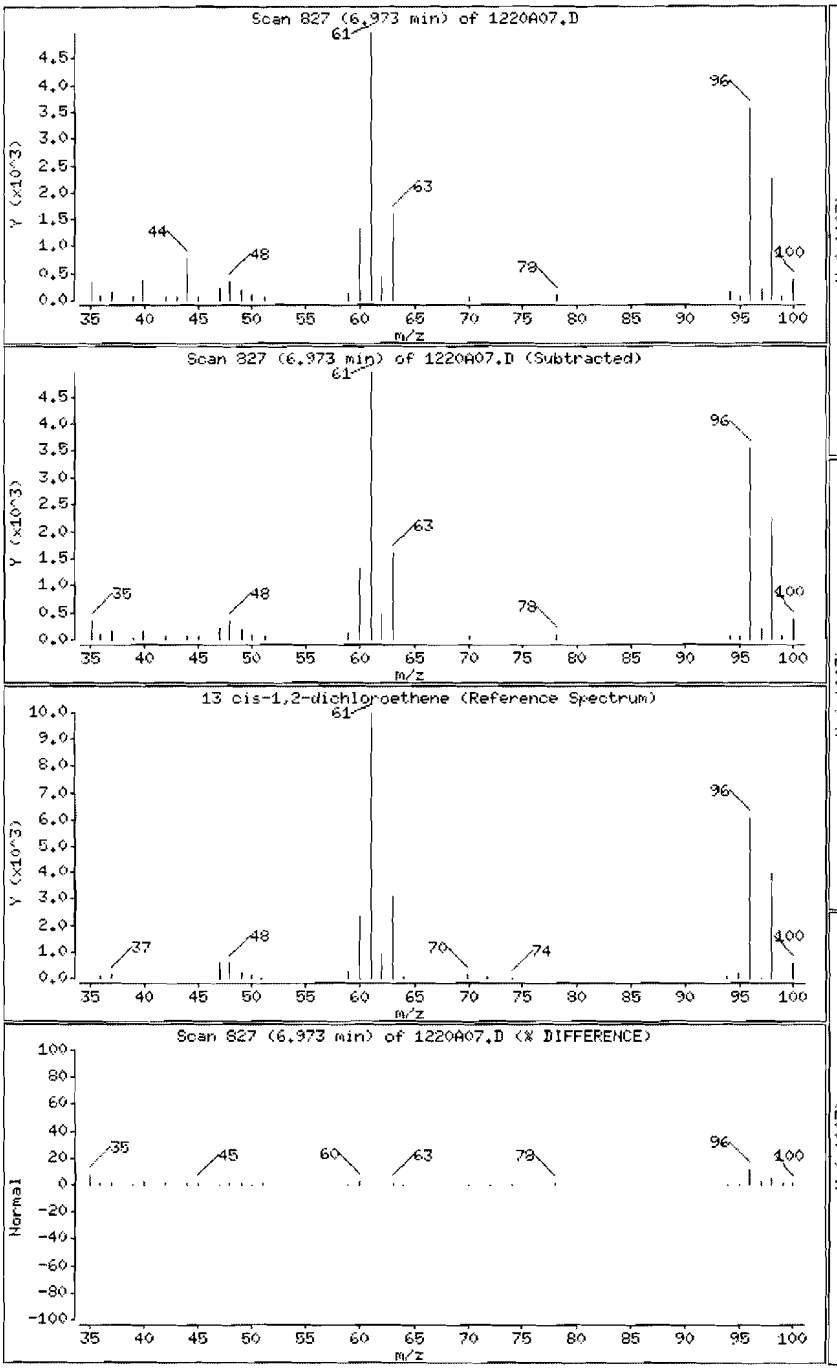
Operator: kl

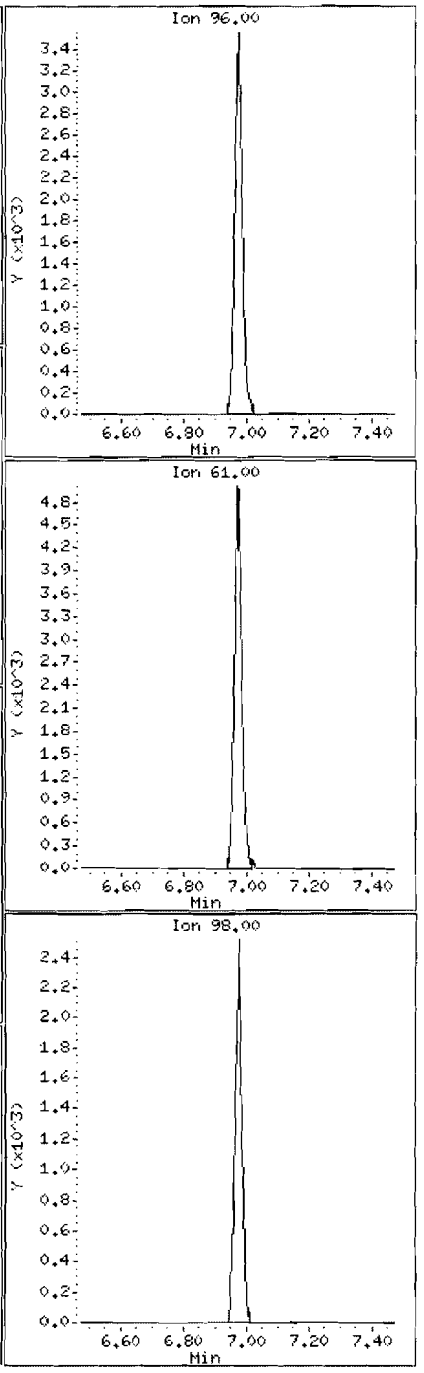
Column phase:

Column diameter: 0.18

13 cis-1,2-dichloroethene

Concentration: 10.49 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A07.D

Date : 20-DEC-2012 12:57

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-01,31,25,,a

Purge Volume: 25.0

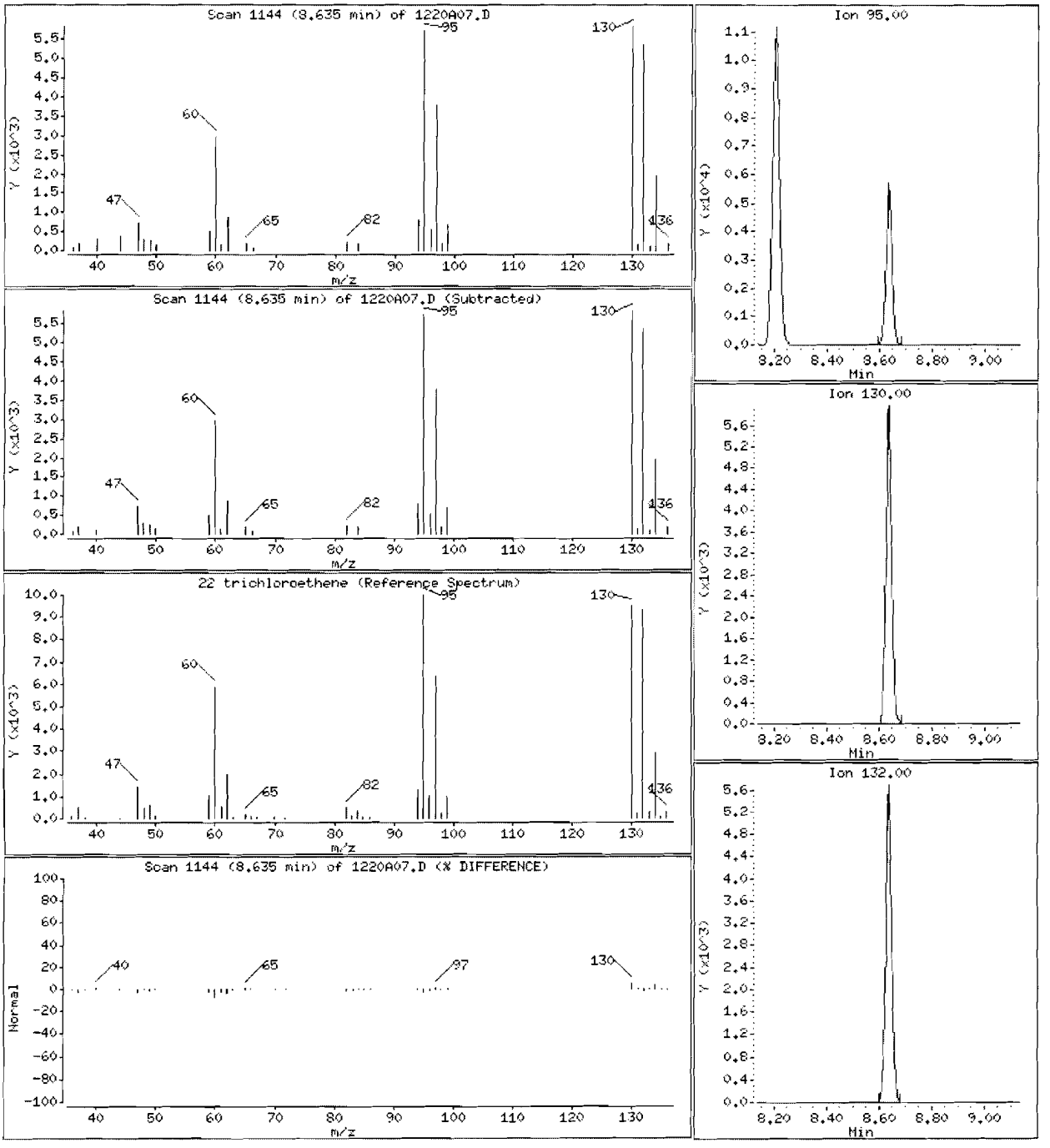
Operator: kl

Column phase:

Column diameter: 0.18

22 trichloroethene

Concentration: 14.74 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A07.D

Date : 20-DEC-2012 12:57

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-01,31,25,,a

Purge Volume: 25.0

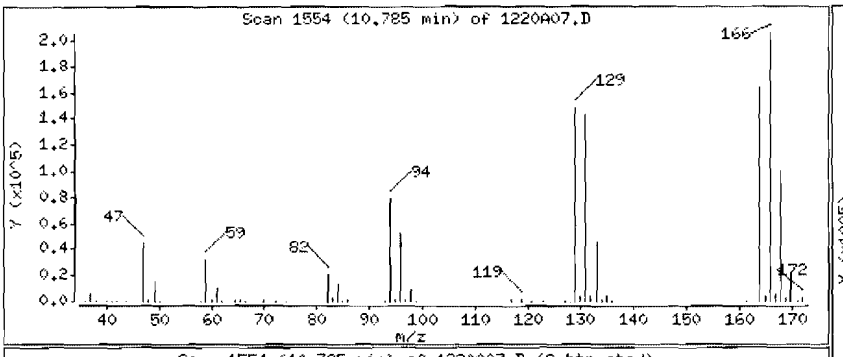
Operator: kl

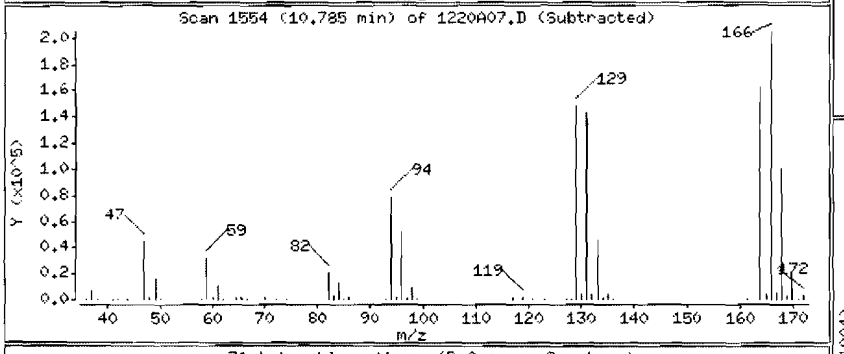
Column phase:

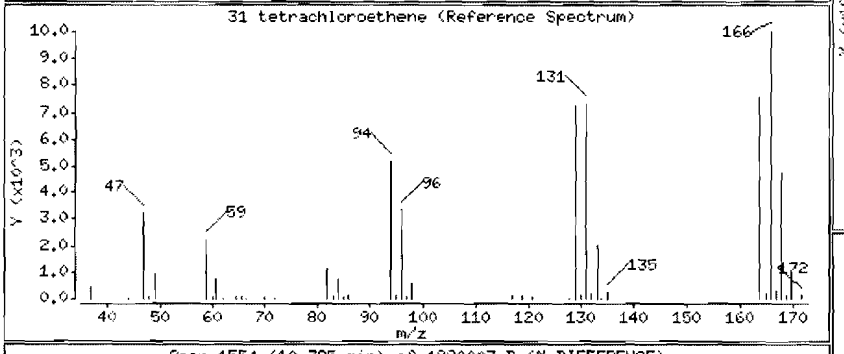
Column diameter: 0.18

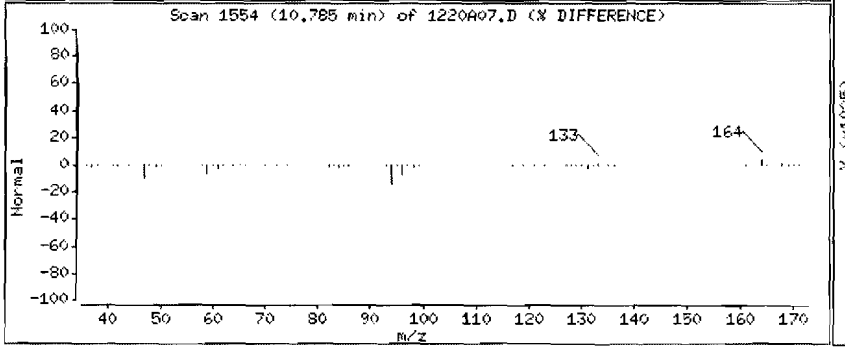
31 tetrachloroethene

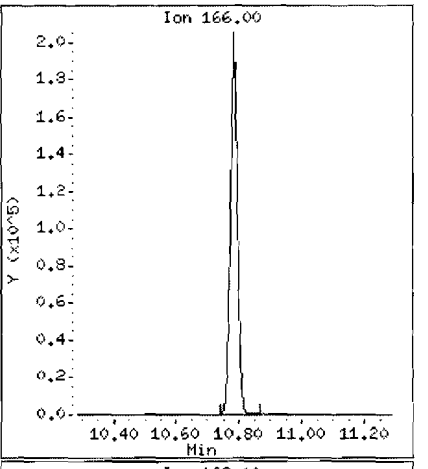
Concentration: 476.60 ngs

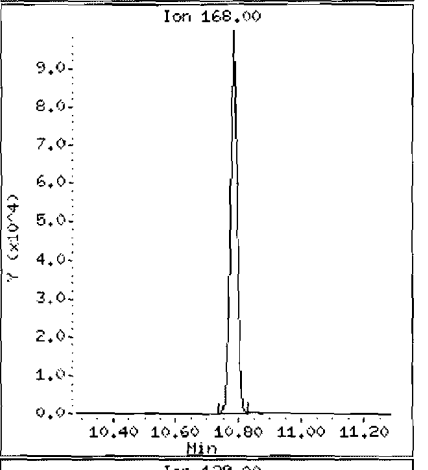


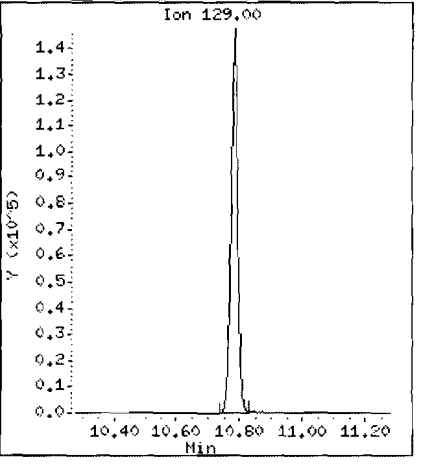












Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A08.D
Lab Smp Id:
Inj Date : 20-DEC-2012 13:32
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-02,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: l213A11.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT S-G MASS	RT	EXP RT	Rel RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	1 Dichlorodifluoromethane	85	Compound Not Detected.						
	2 Chloromethane	50	Compound Not Detected.						
	3 Vinyl chloride	62	Compound Not Detected.						
	4 Bromomethane	94	Compound Not Detected.						
	5 Chloroethane	64	Compound Not Detected.						
	6 Trichlorofluoromethane	101	Compound Not Detected.						
	7 1,1-dichloroethene	96	Compound Not Detected.						
	8 methylene chloride	84	Compound Not Detected.						
	9 methyl-tert-butyl ether	73	Compound Not Detected.						
	10 trans-1,2-Dichloroethene	96	Compound Not Detected.						
	11 1,1-dichloroethane	63	Compound Not Detected.						
	12 2,2-dichloropropane	77	Compound Not Detected.						
	13 cis-1,2-dichloroethene	96	6.973	6.971	(1.000)	1600	94.0252	94.0	
	14 Chloroform	83	Compound Not Detected.						
	15 bromochloromethane	128	Compound Not Detected.						
	16 1,1,1-trichloroethane	97	Compound Not Detected.						
	17 1,1-dichloropropene	77	Compound Not Detected.						
	18 Carbon tetrachloride	117	Compound Not Detected.						
	19 1,2-dichloroethane	62	Compound Not Detected.						
	20 Benzene	78	Compound Not Detected.						
*	21 fluorobenzene	96	8.105	8.104	(1.000)	14963	100.000		
	22 Trichloroethene	95	8.418	8.434	(1.038)	4911	13.0868	13.1	
	23 1,2-dichloropropane	63	Compound Not Detected.						
	24 Dibromomethane	93	Compound Not Detected.						
	25 Bromodichloromethane	83	Compound Not Detected.						
	26 cis-1,3-dichloropropene	75	Compound Not Detected.						
	27 Toluene	92	Compound Not Detected.						
	28 trans-1,3-dichloropropene	75	Compound Not Detected.						
	29 1,1,2-trichloroethane	83	Compound Not Detected.						

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	REVIEW FLAG
	30	1,2-dichloropropane	76	Compound Not Detected.						
	31	tetrachloroethene	166	10.784	10.784	(1.314)	368917	450.710	450.71	
	32	dibromochloromethane	129	Compound Not Detected.						
	33	1,3-dichloropropane	107	Compound Not Detected.						
I	34	Chlorobenzene-d5	117	11.696	11.696	(1.000)	314594	150.000		
	35	chlorobenzene	112	Compound Not Detected.						
	36	ethylbenzene	91	Compound Not Detected.						
	37	1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	38	p/m-xylenes	106	Compound Not Detected.						
	39	o-xylenes	106	Compound Not Detected.						
	40	styrene	104	Compound Not Detected.						
	41	isopropylbenzene	105	Compound Not Detected.						
	42	bromoform	173	Compound Not Detected.						
	43	1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	44	4-bromofluorobenzene	95	13.138	13.138	(1.123)	116447	150.816	100.61	
	45	1,2,3-trichloropropane	110	Compound Not Detected.						
	46	n-propylbenzene	91	Compound Not Detected.						
	47	bromobenzene	156	Compound Not Detected.						
	48	1,3,5-trimethylbenzene	105	Compound Not Detected.						
	49	2-chlorotoluene	126	Compound Not Detected.						
	50	4-chlorotoluene	91	Compound Not Detected.						
	51	tert-butylbenzene	119	Compound Not Detected.						
	52	1,2,4-trimethylbenzene	105	Compound Not Detected.						
	53	sec-butylbenzene	105	Compound Not Detected.						
	54	p-isopropyltoluene	119	Compound Not Detected.						
	55	1,3-dichlorobenzene	146	Compound Not Detected.						
I	56	1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	142931	150.000		
	57	1,4-dichlorobenzene	146	Compound Not Detected.						
	58	n-butylbenzene	91	Compound Not Detected.						
S	59	1,2-Dichlorobenzene-d4	152	15.083	15.083	(1.032)	130597	99.1551	99.15	
	60	1,2-dichlorobenzene	146	Compound Not Detected.						
	61	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	62	1,2,4-trichlorobenzene	180	Compound Not Detected.						
	63	hexachlorobutadiene	225	Compound Not Detected.						
	64	naphthalene	128	Compound Not Detected.						
	65	1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	66	Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A08.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	248837	-3.37
34 Chlorobenzene-d5	246648	123324	493296	238596	-3.26
56 1,4-Dichlorobenze	135773	67887	271546	132934	-2.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.21	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

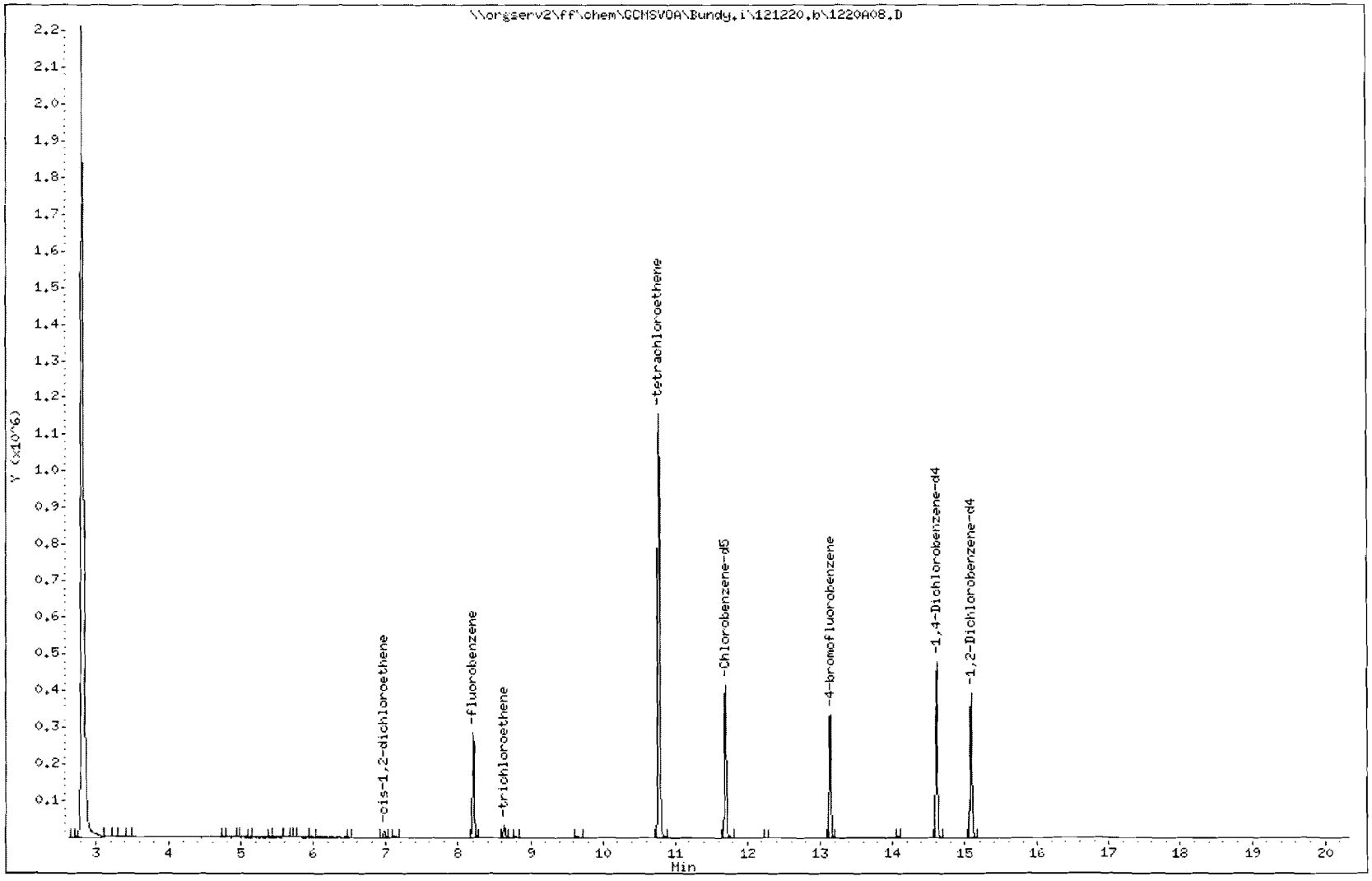
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	100.81	100.82	80-120
$ 59 1,2-Dichlorobenzen	100.00	99.15	99.15	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A08.D
Date : 20-DEC-2012 13:32
Client ID:
Sample Info: 11223074-02,31,25,,a
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A08.D

Date : 20-DEC-2012 13:32

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-02,31,25,,a

Purge Volume: 25.0

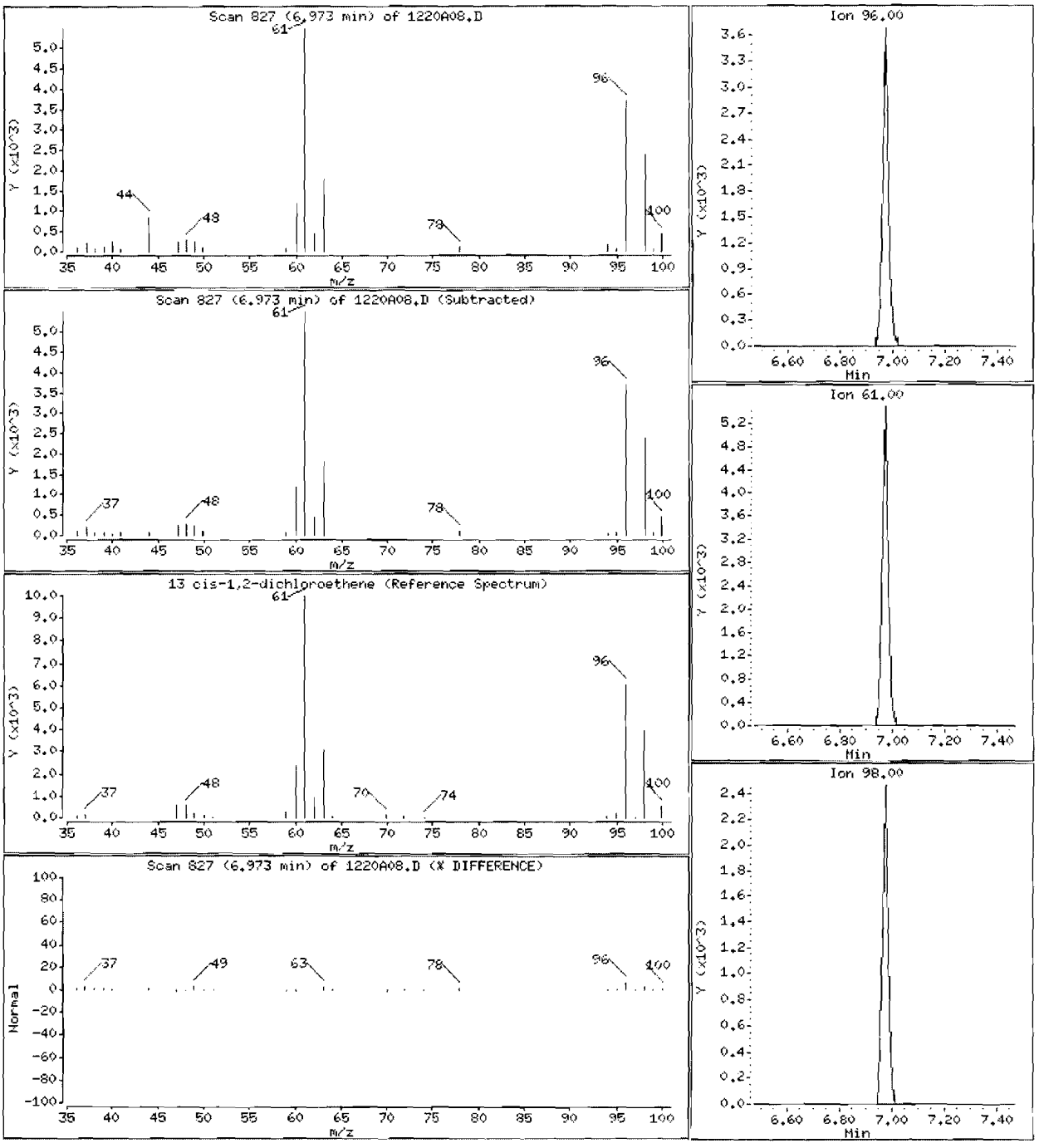
Operator: kl

Column phase:

Column diameter: 0.18

13 cis-1,2-dichloroethene

Concentration: 9.56 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A08.D

Date : 20-DEC-2012 13:32

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-02,31.25,,a

Purge Volume: 25.0

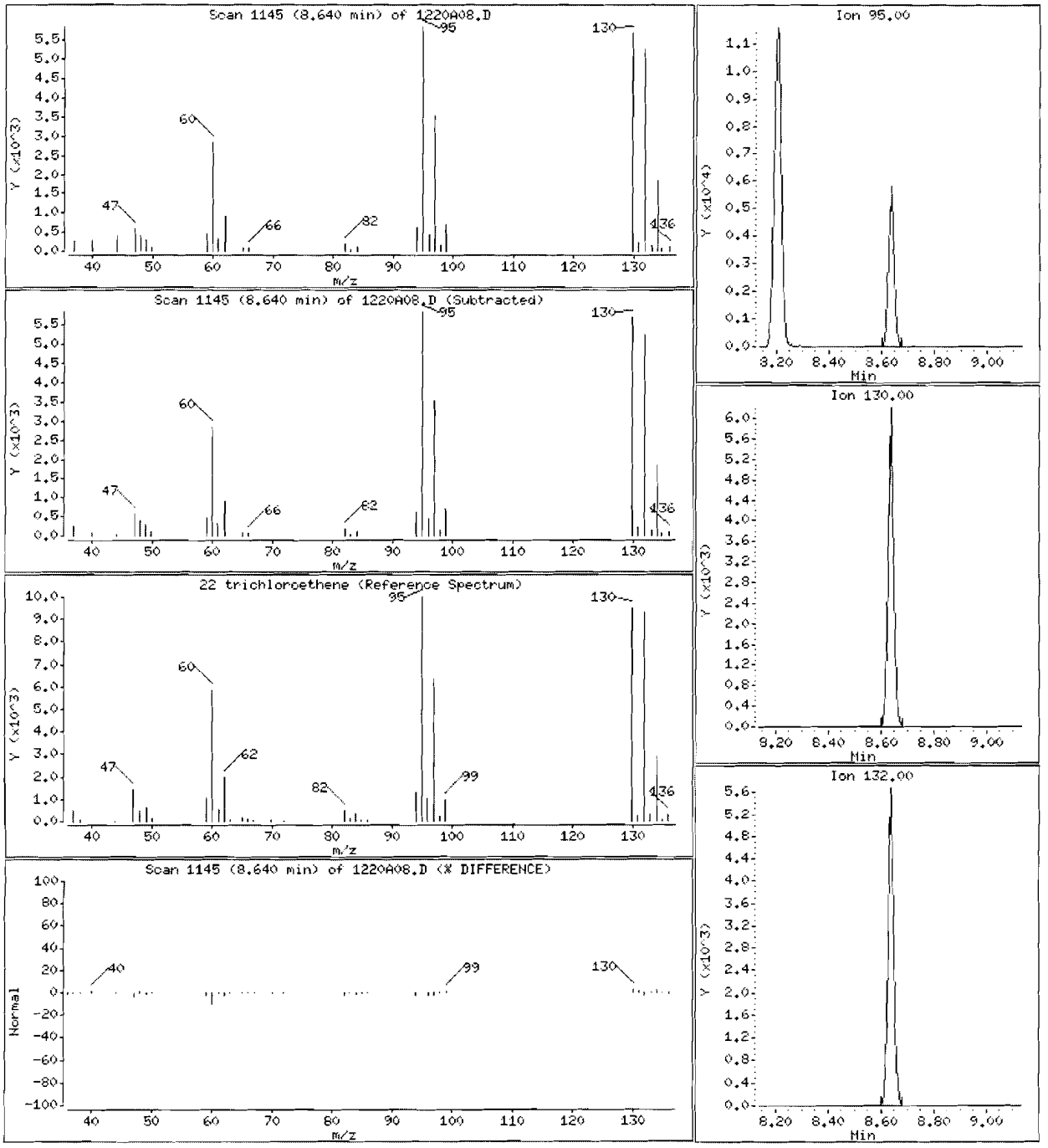
Operator: kl

Column phase:

Column diameter: 0.18

22 trichloroethene

Concentration: 13.56 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A08.D

Date : 20-DEC-2012 13:32

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-02,31,25,,a

Purge Volume: 25.0

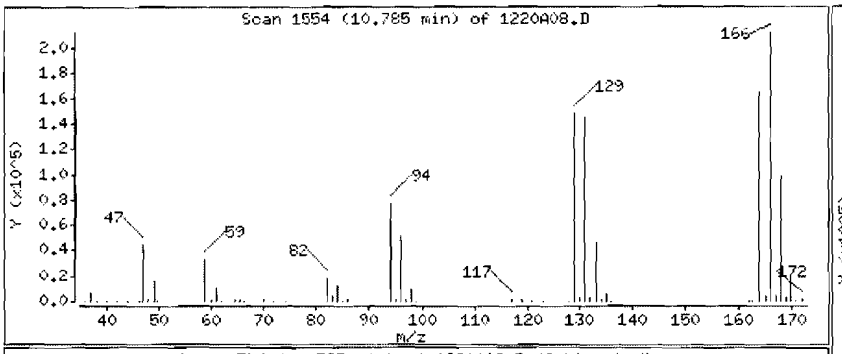
Operator: kl

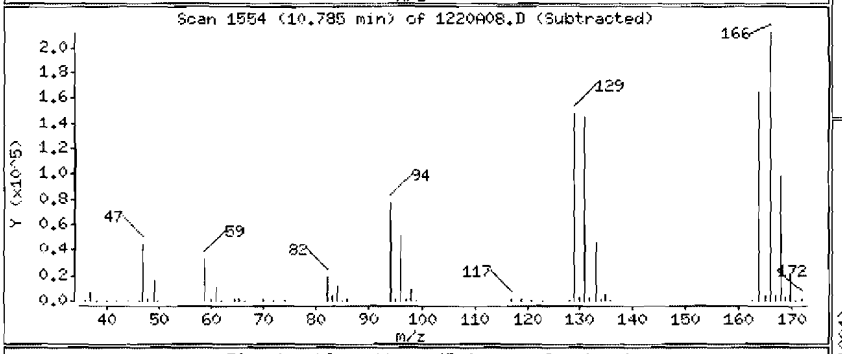
Column phase:

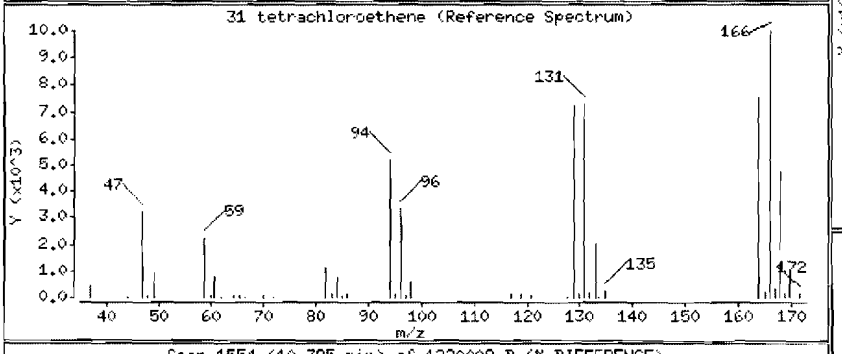
Column diameter: 0.18

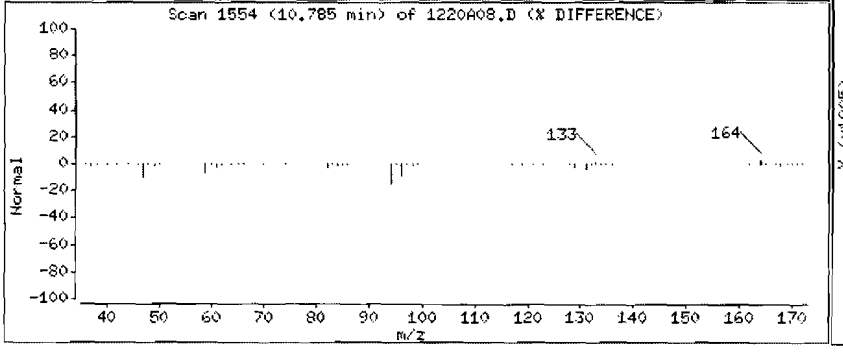
31 tetrachloroethene

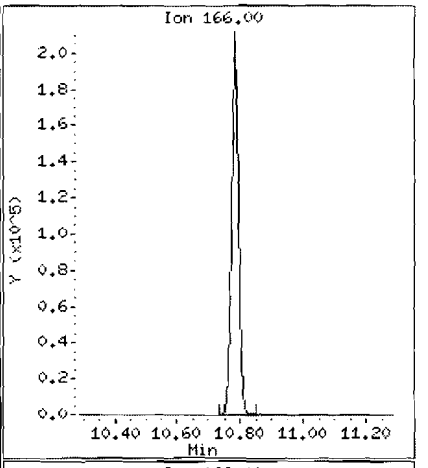
Concentration: 450.71 ngs

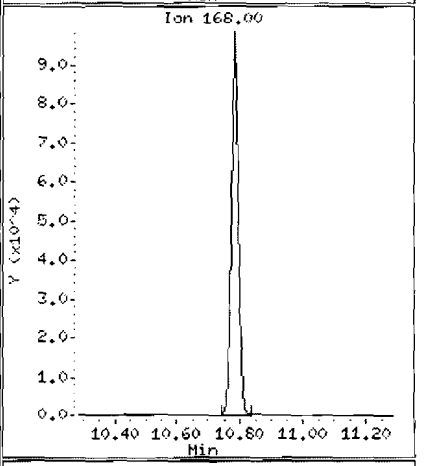


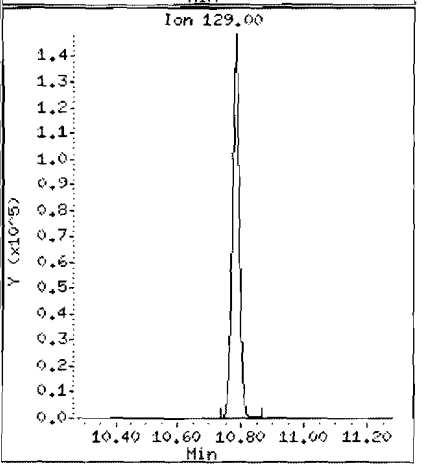












Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A09.D
Lab Smp Id:
Inj Date : 20-DEC-2012 14:07
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-03,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compound	QUANT S G MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/l)	FINAL (ng/l)	REVIEW COD
1	dichlorodifluoromethane	85	Compound Not Detected.						
2	chloromethane	50	Compound Not Detected.						
3	vinyl chloride	62	Compound Not Detected.						
4	bromomethane	94	Compound Not Detected.						
5	chloroethane	64	Compound Not Detected.						
6	trichlorofluoromethane	101	Compound Not Detected.						
7	1,1-dichloroethene	96	Compound Not Detected.						
8	methylene chloride	84	Compound Not Detected.						
9	methyl-tert-butyl ether	73	Compound Not Detected.						
10	trans-1,2-dichloroethene	96	Compound Not Detected.						
11	1,1-dichloroethane	63	Compound Not Detected.						
12	2,2-dichloropropane	77	Compound Not Detected.						
13	cis-1,2-dichloroethene	96	Compound Not Detected.						
14	chloroform	83	Compound Not Detected.						
15	bromochloromethane	128	Compound Not Detected.						
16	1,1,1-trichloroethane	97	Compound Not Detected.						
17	1,1-dichloropropene	75	Compound Not Detected.						
18	carbon tetrachloride	117	Compound Not Detected.						
19	1,2-dichloroethane	62	Compound Not Detected.						
20	benzene	78	Compound Not Detected.						
* 21	fluorobenzene	96	9.18	9.20	1.00	[illegible]	150.000		
22	trichloroethene	95	Compound Not Detected.						
23	1,2-dichloropropane	63	Compound Not Detected.						
24	dibromomethane	93	Compound Not Detected.						
25	bromomethane	93	Compound Not Detected.						
26	cis-1,3-dichloropropene	75	Compound Not Detected.						
27	toluene	92	Compound Not Detected.						
28	trans-1,3-dichloropropene	75	Compound Not Detected.						
29	1,1,2-trichloroethane	97	Compound Not Detected.						

Comp	Code	SCAN SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	29 1,2-dichloropropane	76	Compound Not Detected.						
	31 tetrachloroethene	166	Compound Not Detected.						
	32 dibromochloromethane	129	Compound Not Detected.						
	33 1,2-dibromoethane	107	Compound Not Detected.						
S	34 Chlorobenzene-d5	117	11.690	11.696	(1.000)	765486	150.000		
	35 chlorobenzene	112	Compound Not Detected.						
	36 ethylbenzene	91	Compound Not Detected.						
	37 1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	38 p/m-xylenes	106	Compound Not Detected.						
	39 o-xylenes	106	Compound Not Detected.						
	40 styrene	104	Compound Not Detected.						
	41 isopropylbenzene	105	Compound Not Detected.						
	42 bromoform	173	Compound Not Detected.						
	43 1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	44 4-bromofluorobenzene	95	13.178	13.184	(1.125)	124622	151.262	101.50	
	45 1,2,3-trichloropropane	110	Compound Not Detected.						
	46 n-propylbenzene	91	Compound Not Detected.						
	47 bromobenzene	156	Compound Not Detected.						
	48 1,3,5-trimethylbenzene	105	Compound Not Detected.						
	49 2-chlorotoluene	126	Compound Not Detected.						
	50 4-chlorotoluene	91	Compound Not Detected.						
	51 tert-butylbenzene	119	Compound Not Detected.						
	52 1,2,4-trimethylbenzene	105	Compound Not Detected.						
	53 sec-butylbenzene	105	Compound Not Detected.						
	54 p-isopropyltoluene	119	Compound Not Detected.						
	55 1,3-dichlorobenzene	146	Compound Not Detected.						
S	56 1,4-dichlorobenzene-d4	152	14.017	14.611	(1.000)	131697	150.000		
	57 1,4-dichlorobenzene	146	Compound Not Detected.						
	58 n-butylbenzene	91	Compound Not Detected.						
S	59 1,2-dichlorobenzene-d4	152	15.054	15.060	(1.073)	104436	94.2139	94.21	
	60 1,2-dimethylbenzene	106	Compound Not Detected.						
	61 1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	62 1,2,4-trichlorobenzene	180	Compound Not Detected.						
	63 hexachlorobutadiene	225	Compound Not Detected.						
	64 naphthalene	128	Compound Not Detected.						
	65 1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	66 Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A09.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	239209	-7.11
34 Chlorobenzene-d5	246648	123324	493296	234368	-4.98
56 1,4-Dichlorobenze	135773	67887	271546	131697	-3.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.21	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

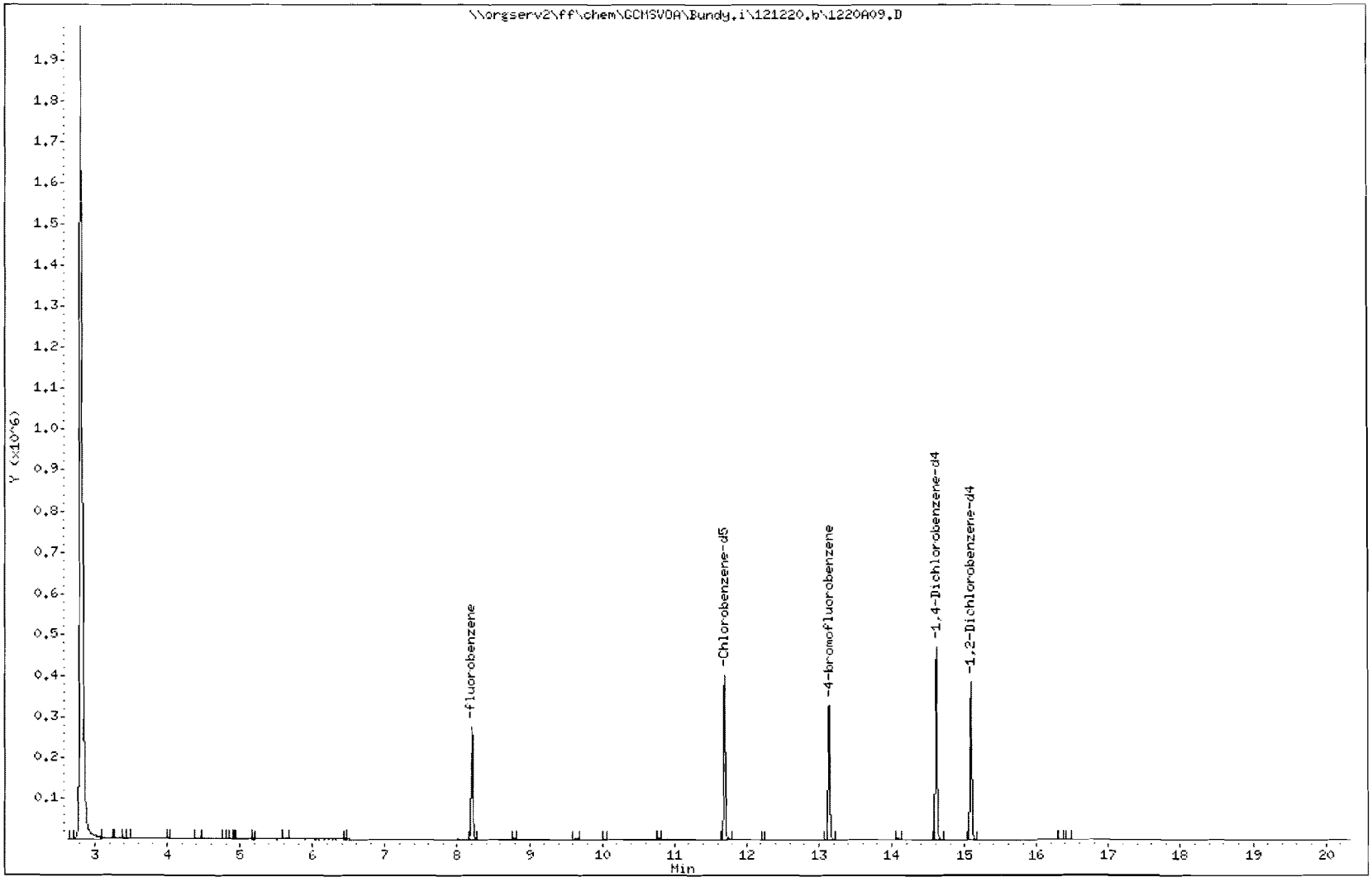
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	101.20	101.20	80-120
$ 59 1,2-Dichlorobenzen	100.00	99.21	99.21	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A09.D
Date : 20-DEC-2012 14:07
Client ID:
Sample Info: 11223074-03,31,25,,a
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A10.D
Lab Smp Id:
Inj Date : 20-DEC-2012 14:42
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-04,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SW846 Mass	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1 dichlorodifluoromethane	85	Compound Not Detected.						
2 chloromethane	50	Compound Not Detected.						
3 vinyl chloride	62	Compound Not Detected.						
4 bromomethane	94	Compound Not Detected.						
5 chloroethane	64	Compound Not Detected.						
6 trichlorofluoromethane	101	Compound Not Detected.						
7 1,1-dichloroethene	96	Compound Not Detected.						
8 methylene chloride	84	Compound Not Detected.						
9 methyl-tert-butyl ether	73	Compound Not Detected.						
10 trans-1,2-dichloroethene	96	Compound Not Detected.						
11 1,1-dichloroethane	63	Compound Not Detected.						
12 2,2-dichloropropane	77	Compound Not Detected.						
13 cis-1,2-dichloroethene	96	Compound Not Detected.						
14 chloroform	83	7.150	7.153	(0.869)	642	6.43035	6.40	
15 bromochloromethane	128	Compound Not Detected.						
16 1,1,1-trichloroethane	97	Compound Not Detected.						
17 1,1-dichloropropene	75	Compound Not Detected.						
18 carbon tetrachloride	117	Compound Not Detected.						
19 1,2-dichloroethane	62	Compound Not Detected.						
20 benzene	78	Compound Not Detected.						
* 21 fluorobenzene	96	8.104	8.104	(1.000)	1.0000	100.000		
22 trichloroethene	95	Compound Not Detected.						
23 1,2-dichloropropane	63	Compound Not Detected.						
24 dibromomethane	93	9.080	9.080	(1.121)	1240	1.10351	10.45	
25 dibromomethane	93	Compound Not Detected.						
26 cis-1,3-dichloropropene	75	Compound Not Detected.						
27 toluene	92	Compound Not Detected.						
28 trans-1,3-dichloropropene	75	Compound Not Detected.						
29 1,1,2-trichloroethane	83	Compound Not Detected.						

		Compounds	QC-Ion m/z	RT	Exp RT	Rel RT	Response	CONCENTRATIONS On-Column (ug/L)	CONCENTRATIONS Final (ug/L)	REVIEW CODE
	30	1,3-dichloropropane	76	Compound Not Detected.						
	31	tetrachloroethene	166	Compound Not Detected.						
	32	dibromochloromethane	129	11.025	11.030	(1.344)	20760	50.3029	50.30	
	33	1,2-dibromoethane	107	Compound Not Detected.						
S	34	Chlorobenzene-d5	117	11.696	11.696	(1.000)	163884	150.000		
	35	chlorobenzene	112	Compound Not Detected.						
	36	ethylbenzene	91	Compound Not Detected.						
	37	1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	38	p/m-xylenes	106	Compound Not Detected.						
	39	o-xylenes	106	Compound Not Detected.						
	40	styrene	104	Compound Not Detected.						
	41	isopropylbenzene	105	Compound Not Detected.						
	42	bromoform	173	12.902	12.902	(1.103)	15040	58.2098	58.20	
	43	1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	44	4-bromofluorobenzene	95	13.139	13.139	(1.123)	112965	99.9692	99.96	
	45	1,2,3-trichloropropane	110	Compound Not Detected.						
	46	n-propylbenzene	91	Compound Not Detected.						
	47	bromobenzene	156	Compound Not Detected.						
	48	1,3,5-trimethylbenzene	105	Compound Not Detected.						
	49	2-chlorotoluene	126	Compound Not Detected.						
	50	4-chlorotoluene	91	Compound Not Detected.						
	51	tert-butylbenzene	119	Compound Not Detected.						
	52	1,2,4-trimethylbenzene	105	Compound Not Detected.						
	53	sec-butylbenzene	105	Compound Not Detected.						
	54	p-isopropyltoluene	119	Compound Not Detected.						
	55	1,3-dichlorobenzene	146	Compound Not Detected.						
I	56	1,4-dichlorobenzene-d4	152	14.011	14.011	(1.000)	114194	150.000		
	57	1,4-dichlorobenzene	146	Compound Not Detected.						
	58	n-butylbenzene	91	Compound Not Detected.						
S	59	1,2-Dichlorobenzene-d4	152	15.058	15.058	(1.075)	109004	97.4047	97.40	
	60	1,2-dichlorobenzene	146	Compound Not Detected.						
	61	1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	62	1,2,4-trichlorobenzene	180	Compound Not Detected.						
	63	hexachlorobutadiene	225	Compound Not Detected.						
	64	naphthalene	128	Compound Not Detected.						
	65	1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	66	Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A10.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	231237	-10.20
34 Chlorobenzene-d5	246648	123324	493296	233484	-5.34
56 1,4-Dichlorobenze	135773	67887	271546	129496	-4.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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.

Alpha Analytical Labs

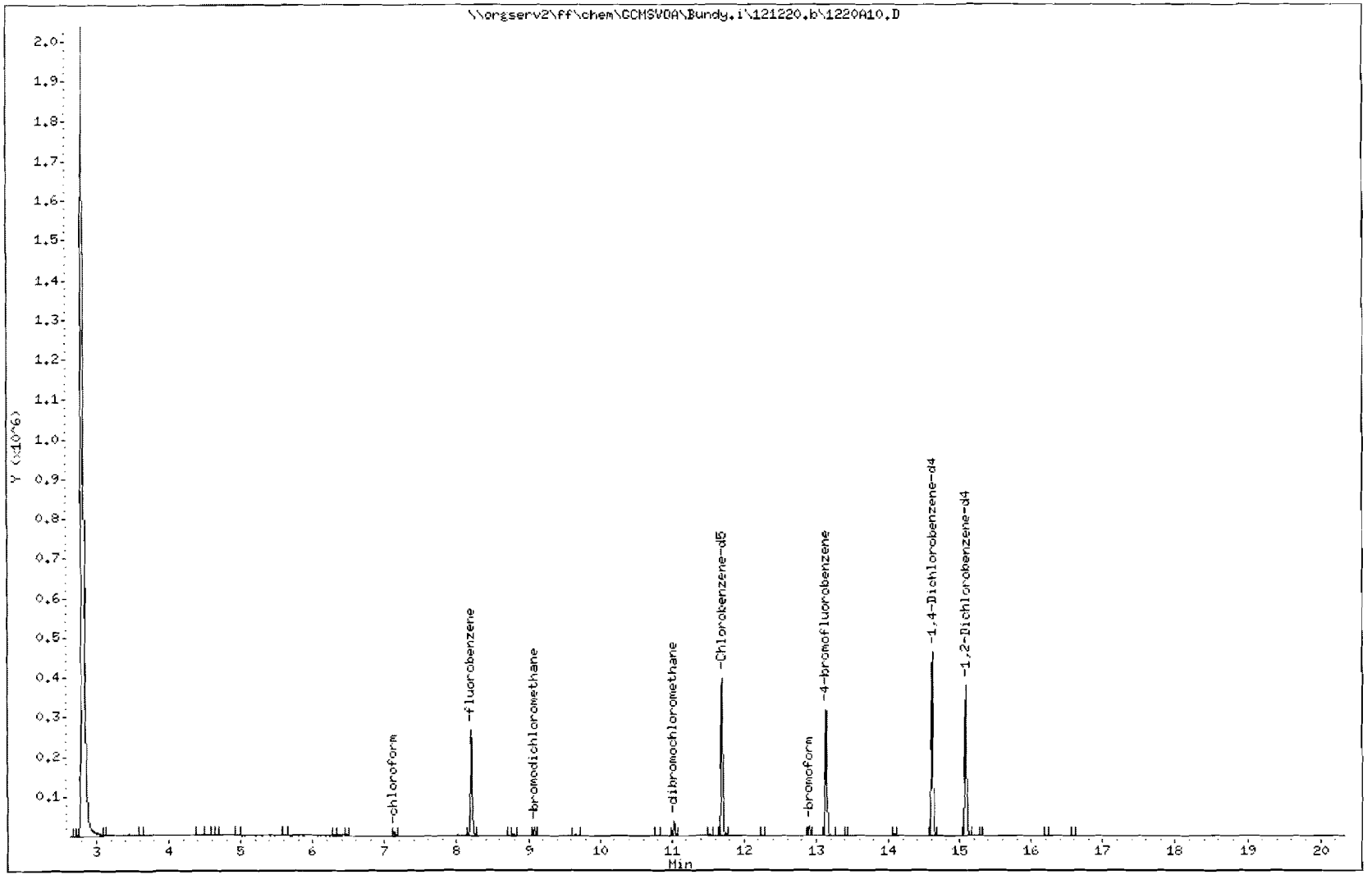
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	98.96	98.97	80-120
$ 59 1,2-Dichlorobenzen	100.00	99.40	99.40	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A10.D
Date : 20-DEC-2012 14:42
Client ID:
Sample Info: 11223074-04,31,25,,a
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A10.D

Date : 20-DEC-2012 14:42

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-04,31,25,,a

Purge Volume: 25.0

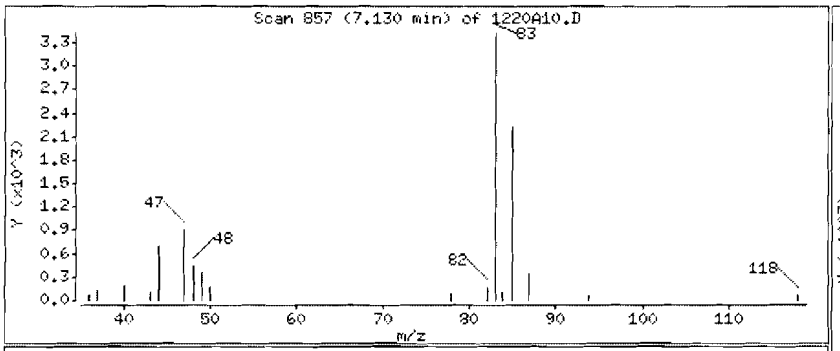
Operator: kl

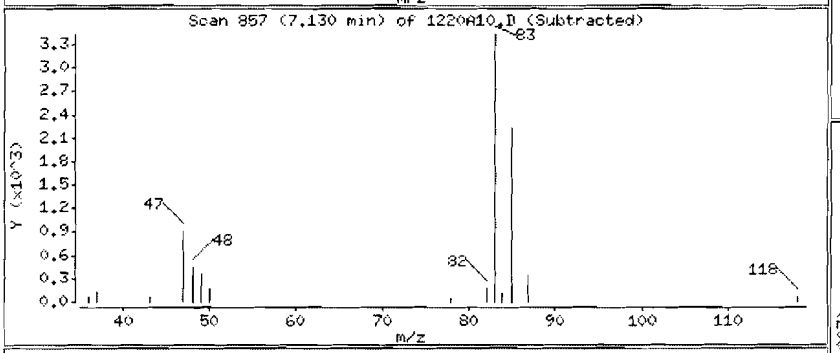
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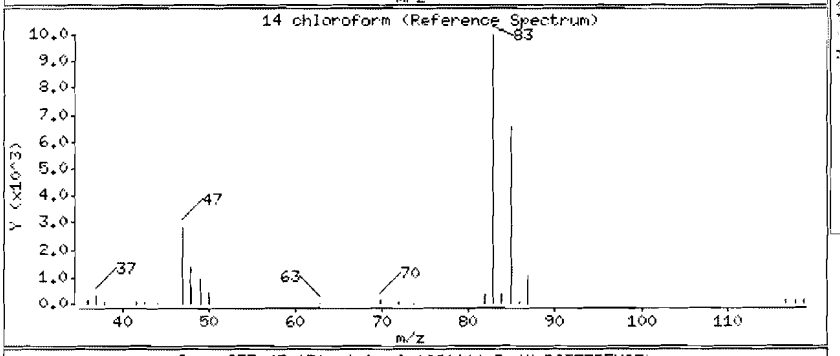
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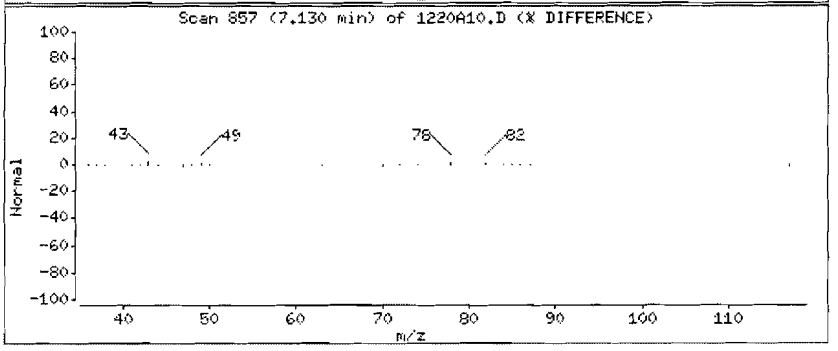
14 chloroform

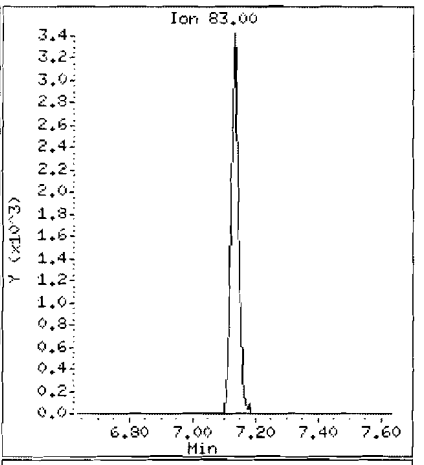
Concentration: 6.40 ngs

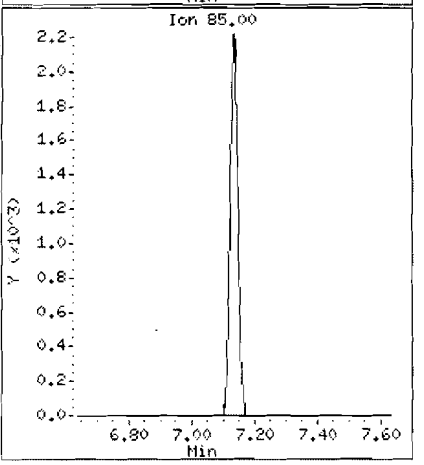












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A10.D

Date : 20-DEC-2012 14:42

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-04,31,25,,a

Purge Volume: 25.0

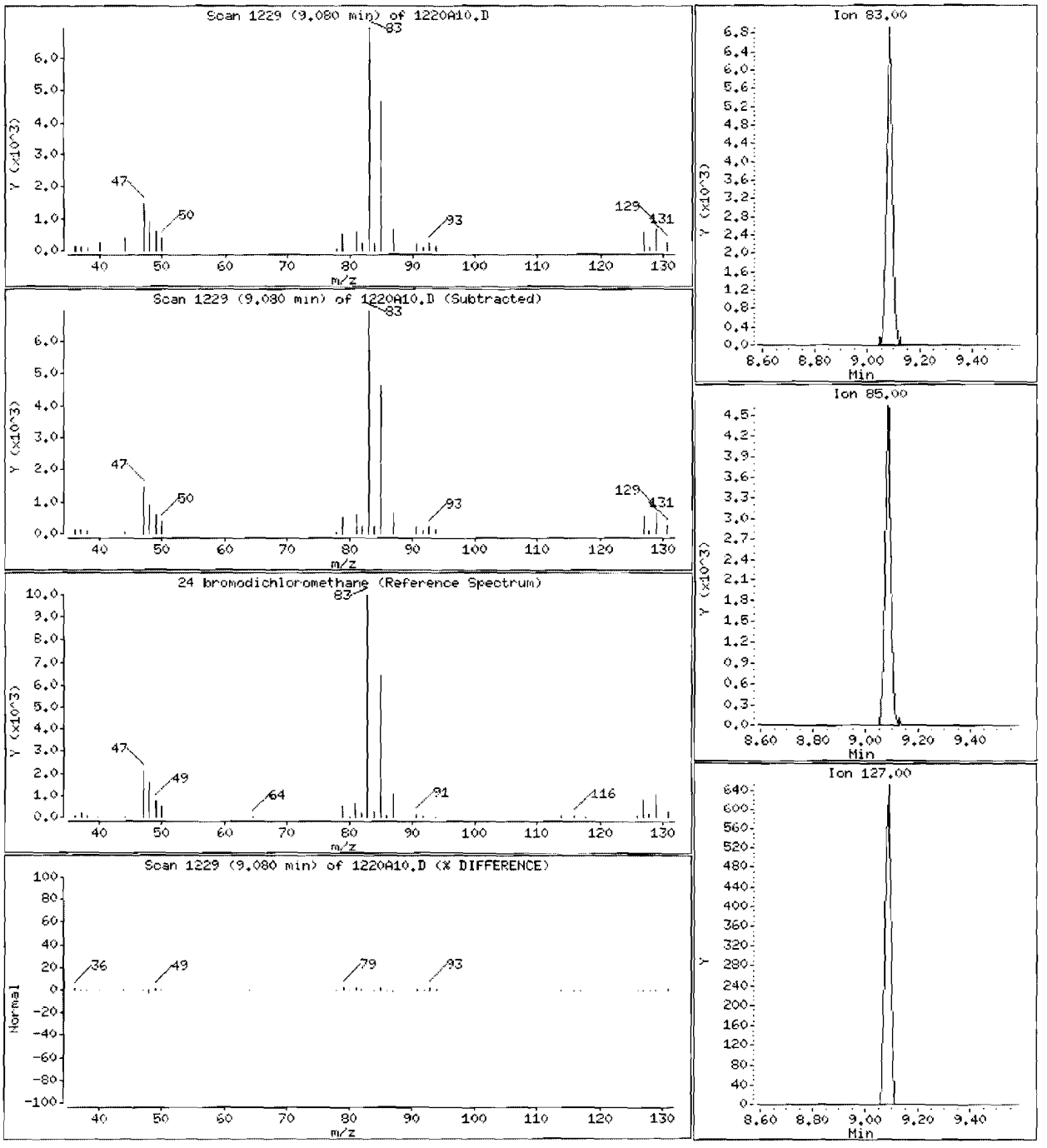
Operator: kl

Column phase:

Column diameter: 0.18

24 bromodichloromethane

Concentration: 19.55 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A10.D

Date : 20-DEC-2012 14:42

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-04,31,25,,a

Purge Volume: 25.0

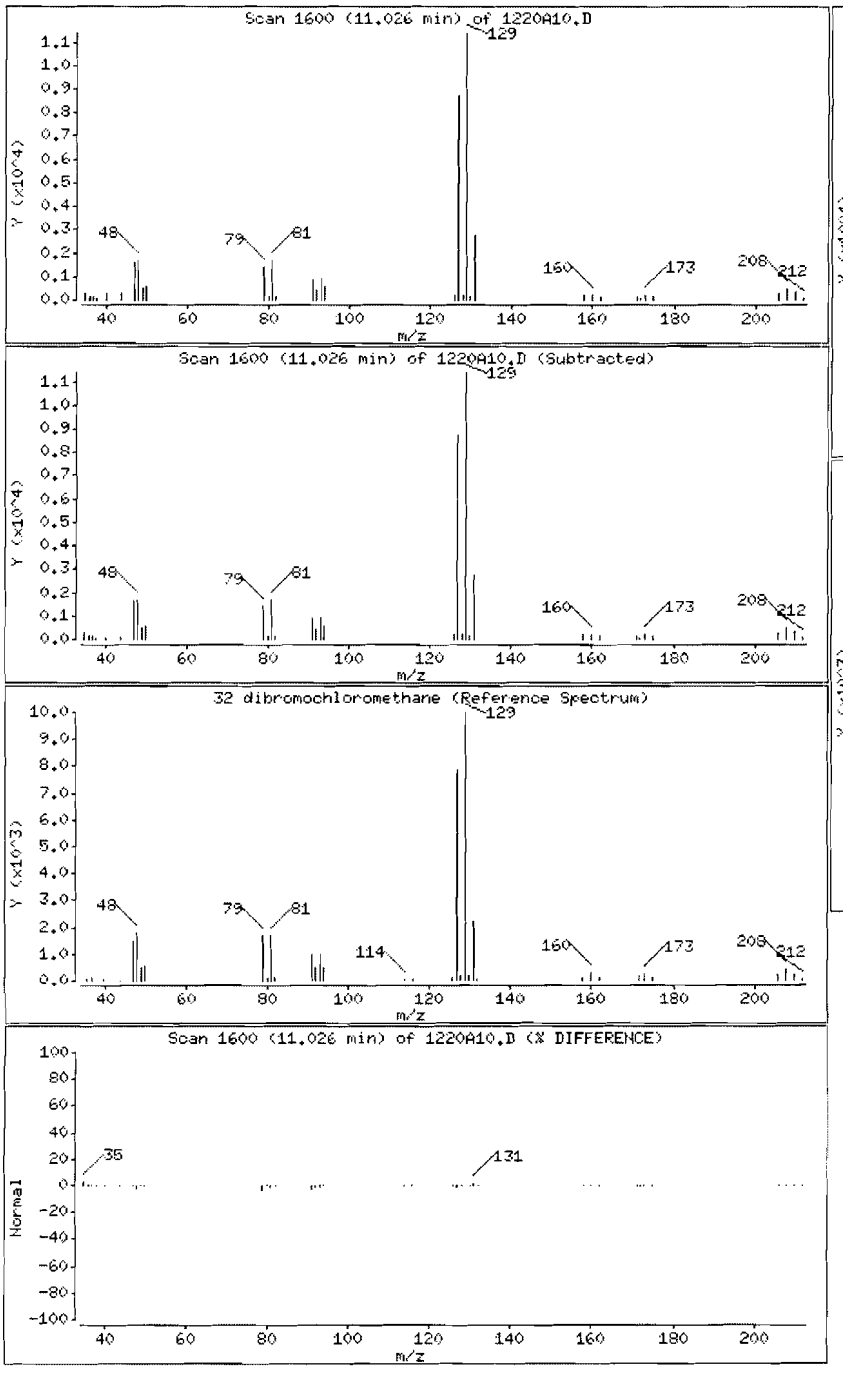
Operator: kl

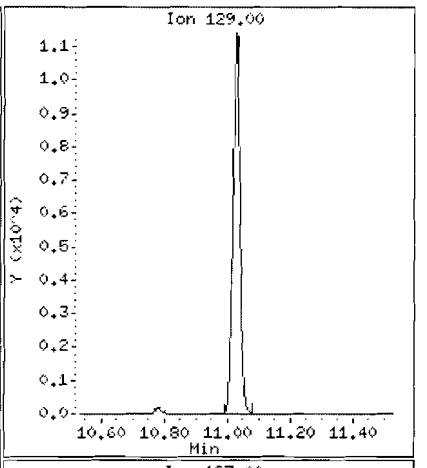
Column phase:

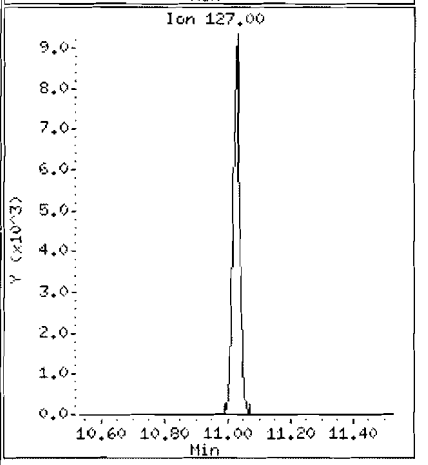
Column diameter: 0.18

32 dibromochloromethane

Concentration: 52.30 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A10.D

Date : 20-DEC-2012 14:42

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-04,31,25,,a

Purge Volume: 25.0

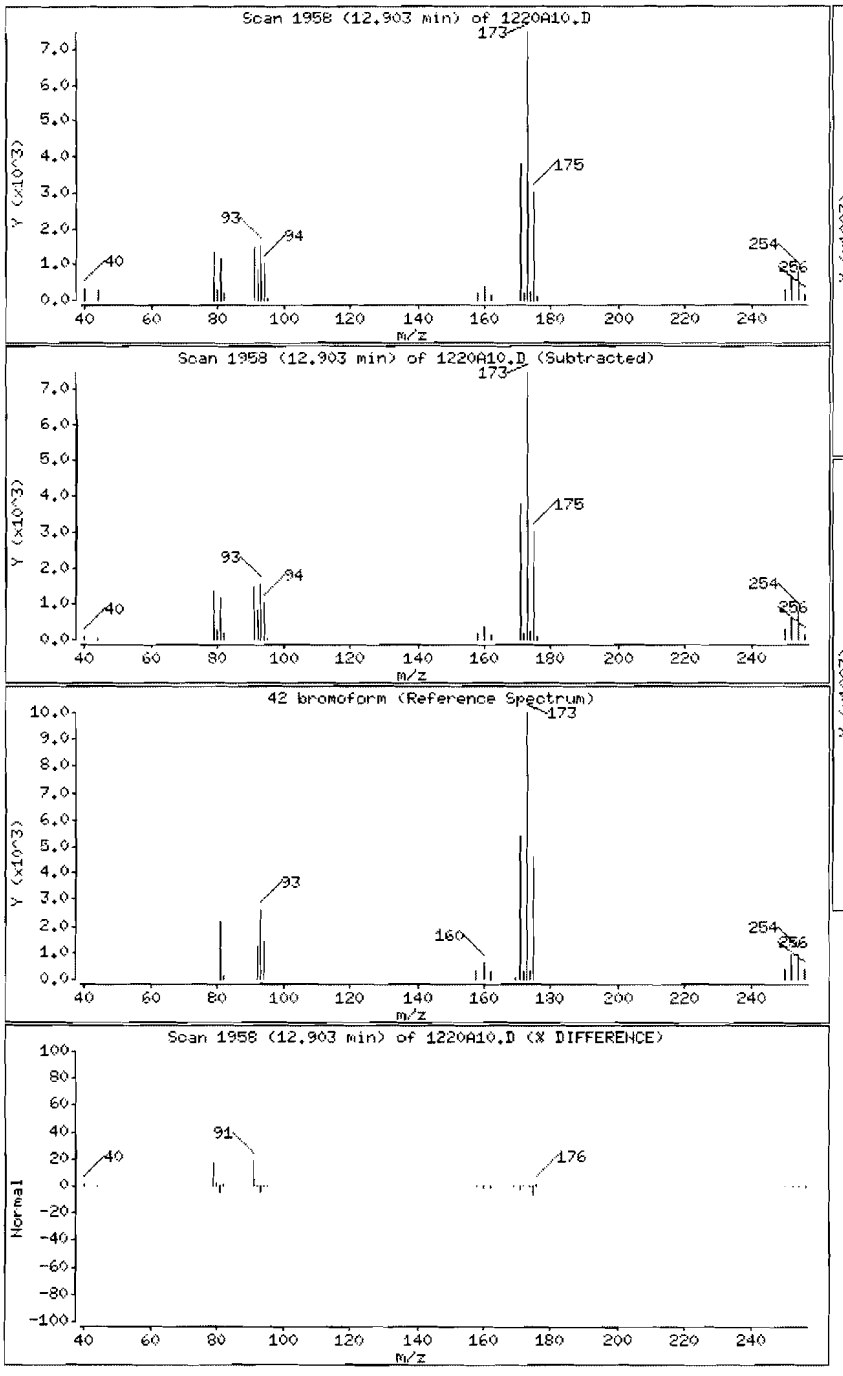
Operator: kl

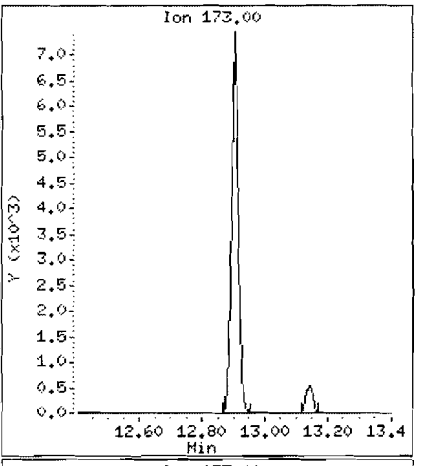
Column phase:

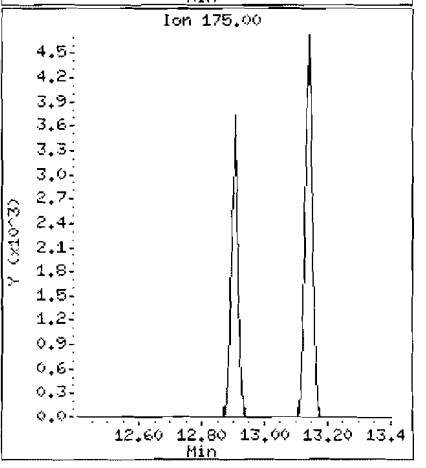
Column diameter: 0.18

42 bromoform

Concentration: 58.20 ngs







Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A11.D
Lab Smp Id:
Inj Date : 20-DEC-2012 15:17
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-05,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT S C MASS	R	EXP RT	REL RT	RETDN%	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1	dichlorodifluoromethane	85		Compound Not Detected.					
2	chloromethane	50		Compound Not Detected.					
3	vinyl chloride	62		Compound Not Detected.					
4	bromomethane	94		Compound Not Detected.					
5	chloroethane	64		Compound Not Detected.					
6	trichlorofluoromethane	101		Compound Not Detected.					
7	1,1-dichloroethene	96		Compound Not Detected.					
8	methylene chloride	84		Compound Not Detected.					
9	methyl-tert-butyl ether	73		Compound Not Detected.					
10	trans-1,2-dichloroethene	96		Compound Not Detected.					
11	1,1-dichloroethane	63		Compound Not Detected.					
12	2,2-dichloropropane	77		Compound Not Detected.					
13	cis-1,2-dichloroethene	96	8.478	8.481 (0.850)	100.0	15.16e6	15.16		
14	chloroform	83		Compound Not Detected.					
15	bromochloromethane	128		Compound Not Detected.					
16	1,1,1-trichloroethane	97		Compound Not Detected.					
17	1,1-dichloropropene	75		Compound Not Detected.					
18	carbon tetrachloride	117		Compound Not Detected.					
19	1,2-dichloroethane	62		Compound Not Detected.					
20	benzene	78		Compound Not Detected.					
* 21	fluorobenzene	96	8.884	8.884 (1.000)	100.0	136424	150.00		
22	trichloroethene	95	8.634	8.634 (1.002)	0.0	4154	5.30e-01	5.95	
23	1,2-dichloropropane	63		Compound Not Detected.					
24	dibromomethane	93		Compound Not Detected.					
25	bromomethane	93		Compound Not Detected.					
26	cis-1,3-dichloropropene	75		Compound Not Detected.					
27	toluene	92		Compound Not Detected.					
28	trans-1,3-dichloropropene	75		Compound Not Detected.					
29	1,1,2-trichloroethane	83		Compound Not Detected.					

			Quant Ion					CONCENTRATIONS On-COLUMN	FINAL	
		Compounds	MZ=S	RT	EXP RT	REL RT	RESPONSE	(ng/s)	(ug/L)	REVIEW CODE
	30	1,4-dichloropropane	76	Compound Not Detected.						
	31	tetrachloroethene	166	10.784	10.784	(1.314)	2376	4.34305	4.34	
	32	dibromochloromethane	129	Compound Not Detected.						
	33	1,2-dibromoethane	107	Compound Not Detected.						
S	34	Chlorobenzene-d5	117	11.696	11.696	(1.000)	219650	150.000		
	35	chlorobenzene	11	Compound Not Detected.						
	36	ethylbenzene	91	Compound Not Detected.						
	37	1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	4	o-Xylenes	106	Compound Not Detected.						
	39	m-xylenes	106	Compound Not Detected.						
	40	styrene	104	Compound Not Detected.						
	41	isopropylbenzene	105	Compound Not Detected.						
	42	bromoform	173	Compound Not Detected.						
	43	1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	44	4-bromofluorobenzene	95	13.138	13.138	(1.123)	214451	153.795	102.79	
	45	1,2,3-trichloropropane	110	Compound Not Detected.						
	46	n-propylbenzene	91	Compound Not Detected.						
	47	bromobenzene	156	Compound Not Detected.						
	48	1,3,5-trimethylbenzene	105	Compound Not Detected.						
	49	2-chlorotoluene	126	Compound Not Detected.						
	50	4-chlorotoluene	91	Compound Not Detected.						
	51	tert-butylbenzene	119	Compound Not Detected.						
	52	1,2,4,-trimethylbenzene	105	Compound Not Detected.						
	53	sec-butylbenzene	105	Compound Not Detected.						
	54	p-isopropyltoluene	119	Compound Not Detected.						
	55	1,3-dichlorobenzene	146	Compound Not Detected.						
S	56	1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	130301	150.000		
	57	1,4-dichlorobenzene	146	Compound Not Detected.						
	58	n-butylbenzene	91	Compound Not Detected.						
S	59	1,2-Dichlorobenzene-d4	152	15.005	15.005	(1.028)	111752	153.215	102.21	
	60	1,2-dichlorobenzene	146	Compound Not Detected.						
	61	1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	62	1,2,4-trichlorobenzene	180	Compound Not Detected.						
	63	hexachlorobutadiene	225	Compound Not Detected.						
	64	naphthalene	128	Compound Not Detected.						
	65	1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	66	Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A11.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ica17597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	236429	-8.18
34 Chlorobenzene-d5	246648	123324	493296	229950	-6.77
56 1,4-Dichlorobenze	135773	67887	271546	130305	-4.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

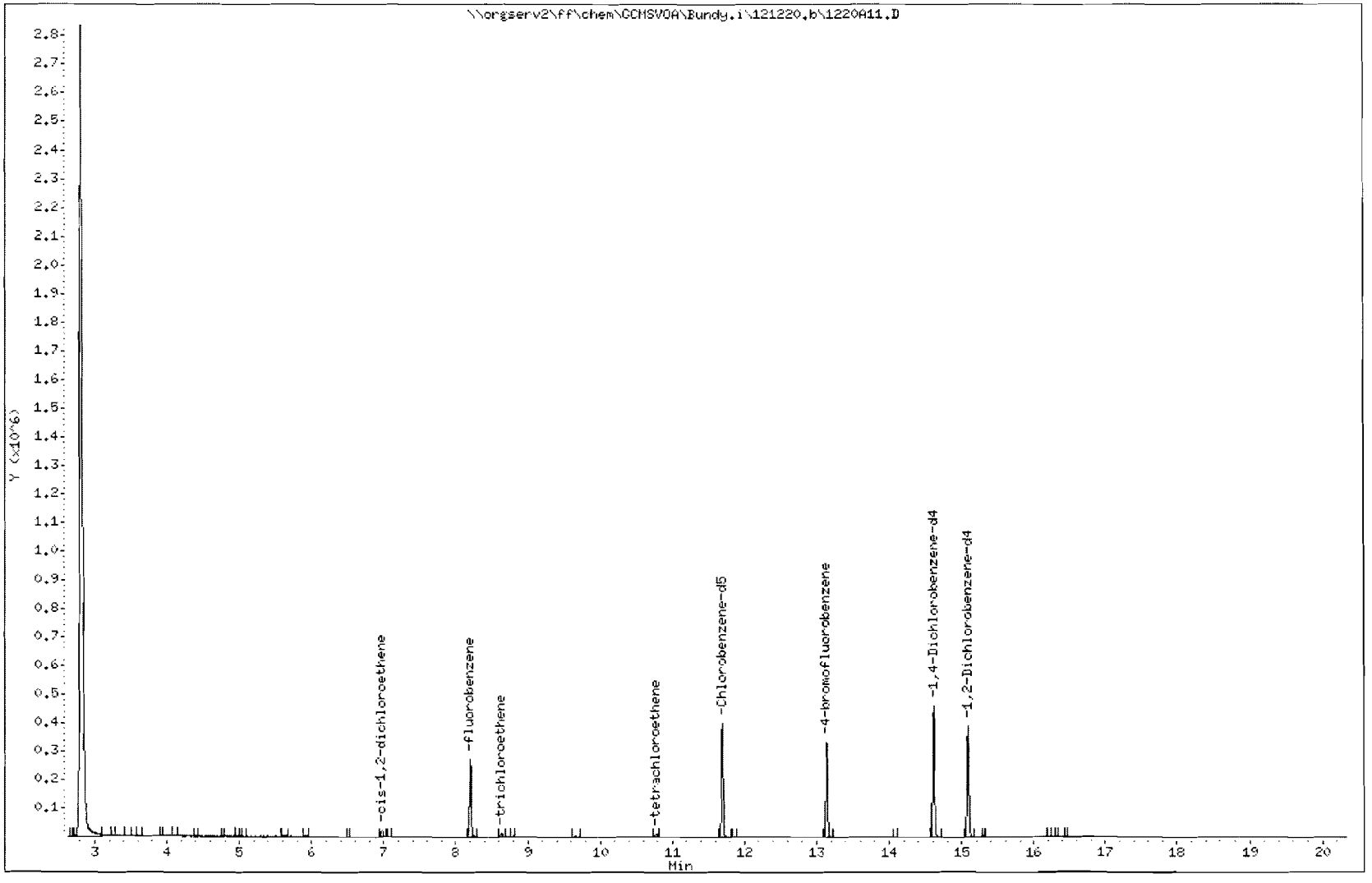
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	102.79	102.80	80-120
$ 59 1,2-Dichlorobenzen	100.00	102.21	102.21	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A11.D
Date : 20-DEC-2012 15:17
Client ID:
Sample Info: l1223074-05,31.25,,a
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A11.D

Date : 20-DEC-2012 15:17

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-05,31.25,,a

Purge Volume: 25.0

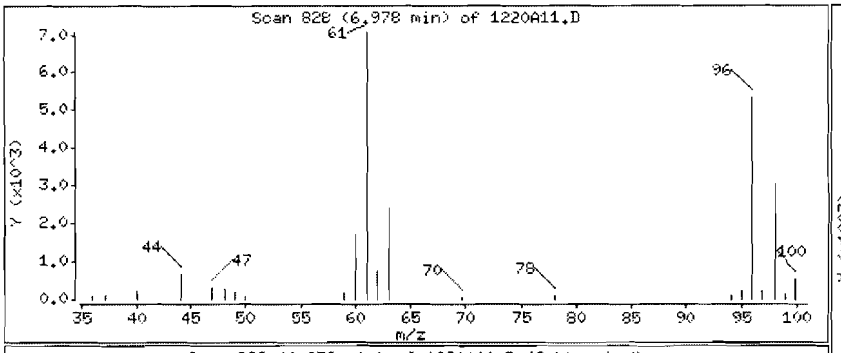
Operator: kl

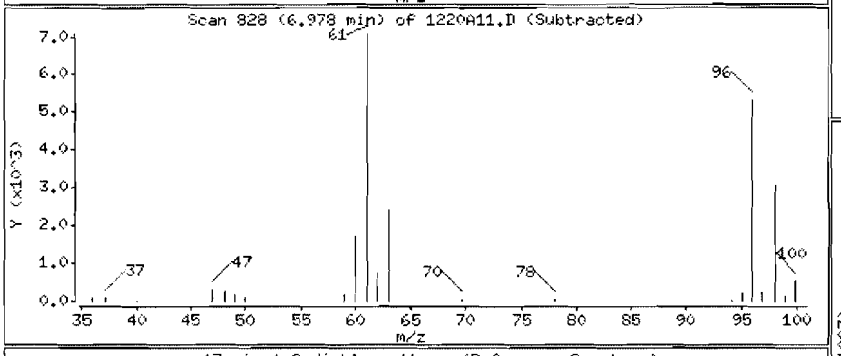
Column phase:

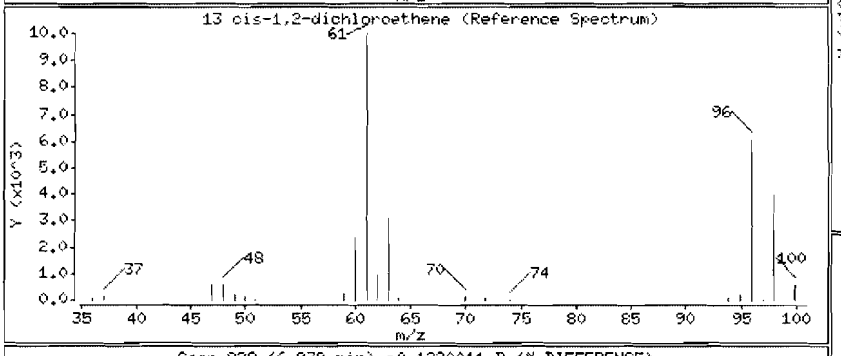
Column diameter: 0.18

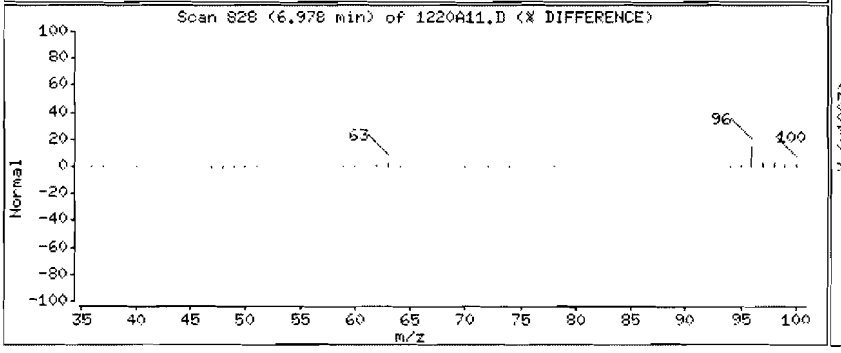
13 cis-1,2-dichloroethene

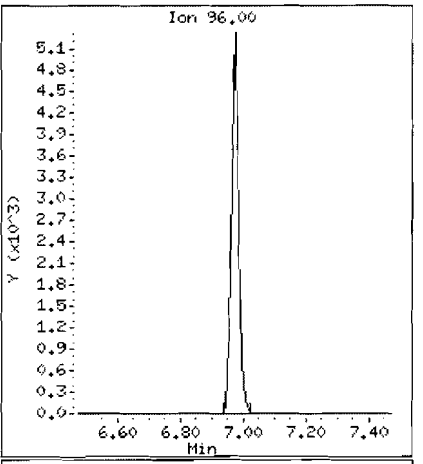
Concentration: 15.16 ngs

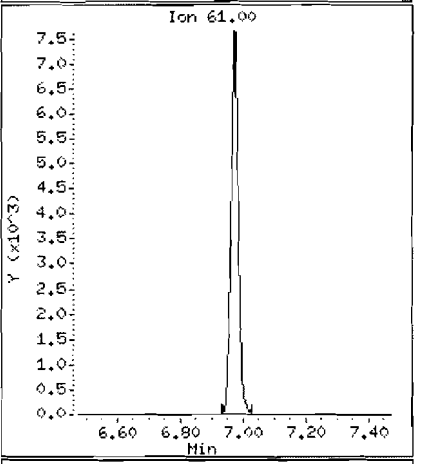


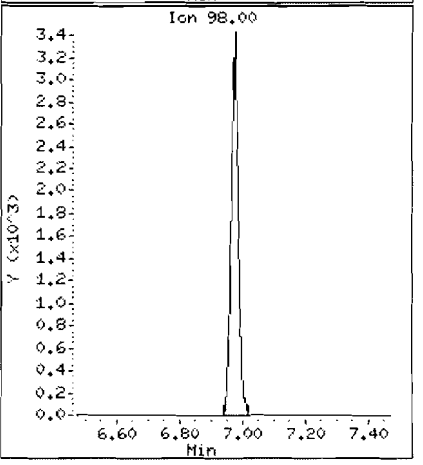












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A11.D

Date : 20-DEC-2012 15:17

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-05,31,25,,a

Purge Volume: 25.0

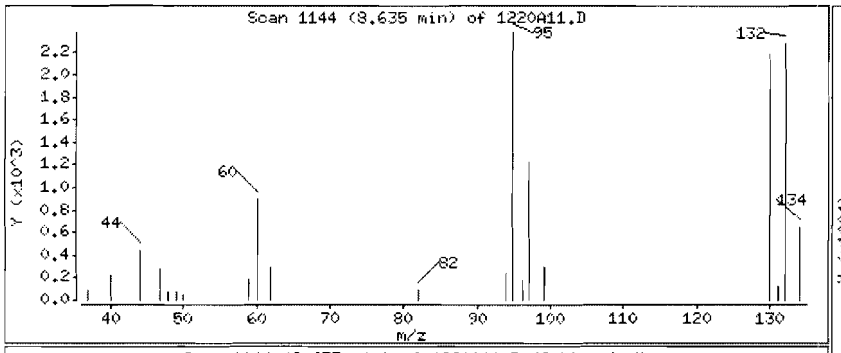
Operator: kl

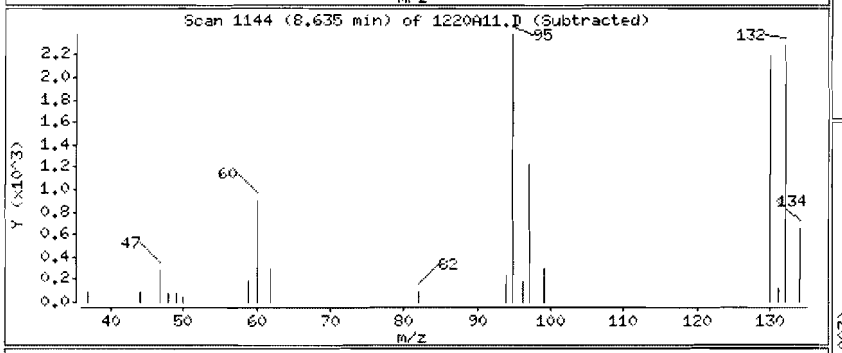
Column phase:

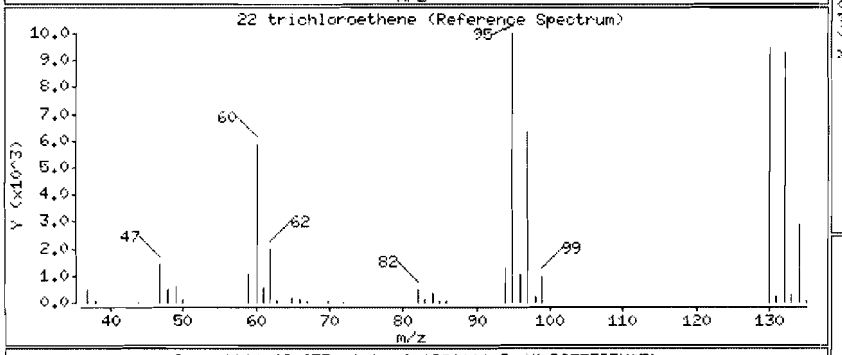
Column diameter: 0.18

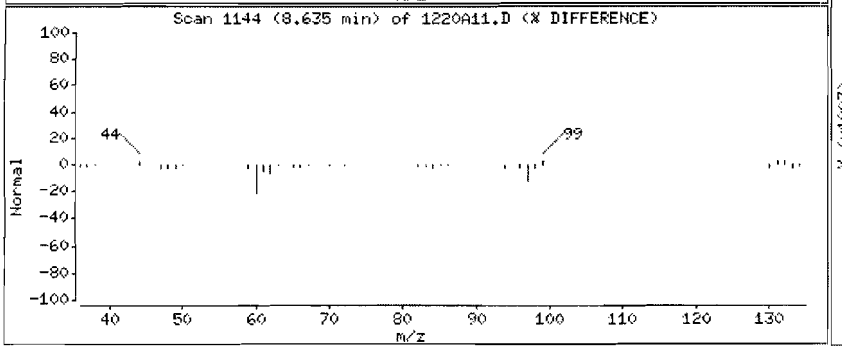
22 trichloroethene

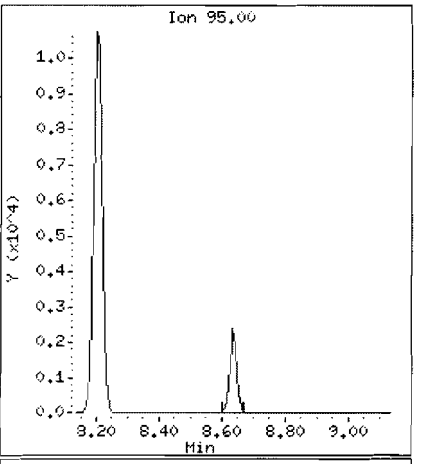
Concentration: 5.35 ngs

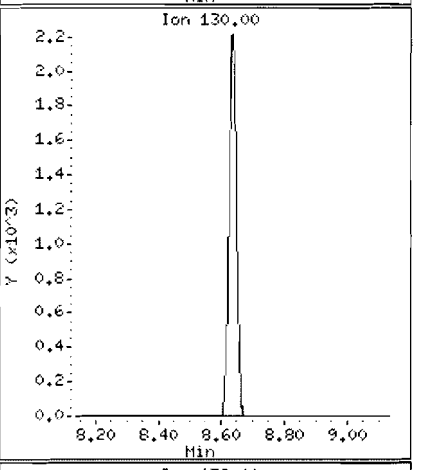


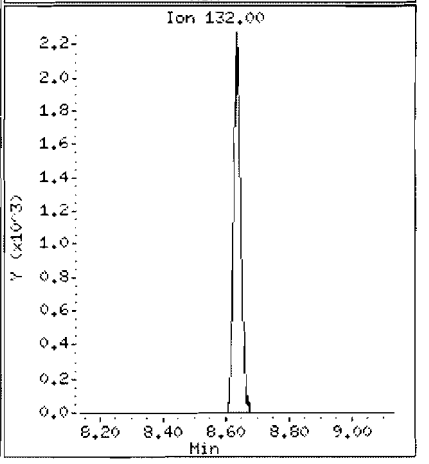












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A11.D

Date : 20-DEC-2012 15:17

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-05,31,25,,a

Purge Volume: 25.0

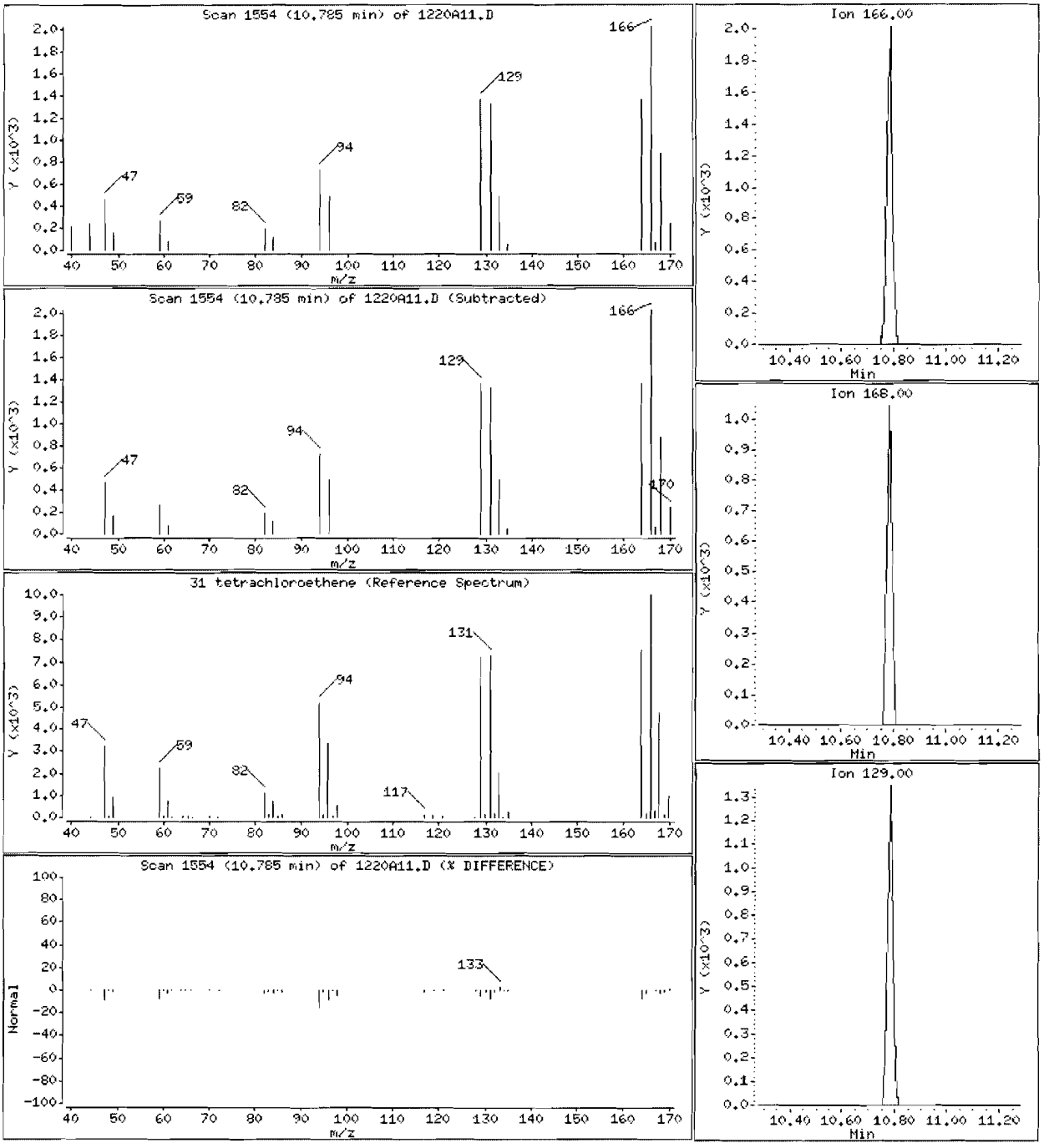
Operator: kl

Column phase:

Column diameter: 0.18

31 tetrachloroethene

Concentration: 4.34 ngs



Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A12.D
Lab Smp Id:
Inj Date : 20-DEC-2012 15:53
Operator : kl Inst ID: Bundy.i
Smp Info : l1223074-06,31,25,,a
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW COMMENTS
1	dichlorodifluoromethane	85	Compound Not Detected.						
2	chloromethane	50	Compound Not Detected.						
3	vinyl chloride	62	Compound Not Detected.						
4	bromomethane	94	Compound Not Detected.						
5	chloroethane	64	Compound Not Detected.						
6	trichlorofluoromethane	101	Compound Not Detected.						
7	1,1-dichloroethene	96	Compound Not Detected.						
8	methylene chloride	84	Compound Not Detected.						
9	methyl-tert-butyl ether	73	Compound Not Detected.						
10	trans-1,2-dichloroethene	96	Compound Not Detected.						
11	1,1-dichloroethane	63	Compound Not Detected.						
12	2,2-dichloropropane	77	Compound Not Detected.						
13	cis-1,2-dichloroethene	96	Compound Not Detected.						
14	chloroform	83	7.136	7.136	(0.670)	3670	5.65504	2.83	
15	bromochloromethane	128	Compound Not Detected.						
16	1,1,1-trichloroethane	97	Compound Not Detected.						
17	1,1-dichloropropene	75	Compound Not Detected.						
18	carbon tetrachloride	117	Compound Not Detected.						
19	1,2-dichloroethane	62	Compound Not Detected.						
20	benzene	78	Compound Not Detected.						
* 21	fluorobenzene	96	8.594	8.594	(1.000)	22484	100.00		
22	trichloroethene	95	Compound Not Detected.						
23	1,2-dichloropropane	63	Compound Not Detected.						
24	bromodichloromethane	83	Compound Not Detected.						
25	dibromomethane	93	Compound Not Detected.						
26	cis-1,3-dichloropropene	75	Compound Not Detected.						
27	toluene	92	Compound Not Detected.						
28	trans-1,3-dichloropropene	75	Compound Not Detected.						
29	1,1,2-trichloroethane	83	Compound Not Detected.						

	Compounds	XWAY SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	REVIEW COMMENTS
	30 1,2-dichloropropane	76	Compound Not Detected.						
	31 tetrachloroethene	166	10.784	10.774	(1.014)	10769	14.238	14.23	
	32 dibromochloromethane	129	Compound Not Detected.						
	33 1,2-dibromoethane	107	Compound Not Detected.						
S	34 Chlorobenzene-d5	117	11.090	11.096	(1.000)	25409	150.000		
	35 chlorobenzene	112	Compound Not Detected.						
	36 ethylbenzene	91	Compound Not Detected.						
	37 1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	38 p/m-xylenes	106	Compound Not Detected.						
	39 o-xylenes	106	Compound Not Detected.						
	40 styrene	104	Compound Not Detected.						
	41 isopropylbenzene	105	Compound Not Detected.						
	42 bromoform	173	Compound Not Detected.						
	43 1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	44 4-bromofluorobenzene	95	13.135	13.135	(1.175)	111304	102.000	102.00	
	45 1,2,3-trichloropropane	110	Compound Not Detected.						
	46 n-propylbenzene	91	Compound Not Detected.						
	47 bromobenzene	156	Compound Not Detected.						
	48 1,3,5-trimethylbenzene	105	Compound Not Detected.						
	49 2-chlorotoluene	126	Compound Not Detected.						
	50 4-chlorotoluene	91	Compound Not Detected.						
	51 tert-butylbenzene	119	Compound Not Detected.						
	52 1,2,4-trimethylbenzene	105	Compound Not Detected.						
	53 sec-butylbenzene	105	Compound Not Detected.						
	54 p-isopropyltoluene	119	Compound Not Detected.						
	55 1,3-dichlorobenzene	146	Compound Not Detected.						
S	56 1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	116871	150.000		
	57 1,4-dichlorobenzene	146	Compound Not Detected.						
	58 n-butylbenzene	91	Compound Not Detected.						
S	59 1,2-Dichlorobenzene-d4	152	15.063	15.063	(1.032)	107476	141.000	140.99	
	60 1,2-dichlorobenzene	146	Compound Not Detected.						
	61 1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	62 1,2,4-trichlorobenzene	181	Compound Not Detected.						
	63 hexachlorobutadiene	225	Compound Not Detected.						
	64 naphthalene	128	Compound Not Detected.						
	65 1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	66 Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A12.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	229264	-10.97
34 Chlorobenzene-d5	246648	123324	493296	225409	-8.61
56 1,4-Dichlorobenze	135773	67887	271546	126821	-6.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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.

Alpha Analytical Labs

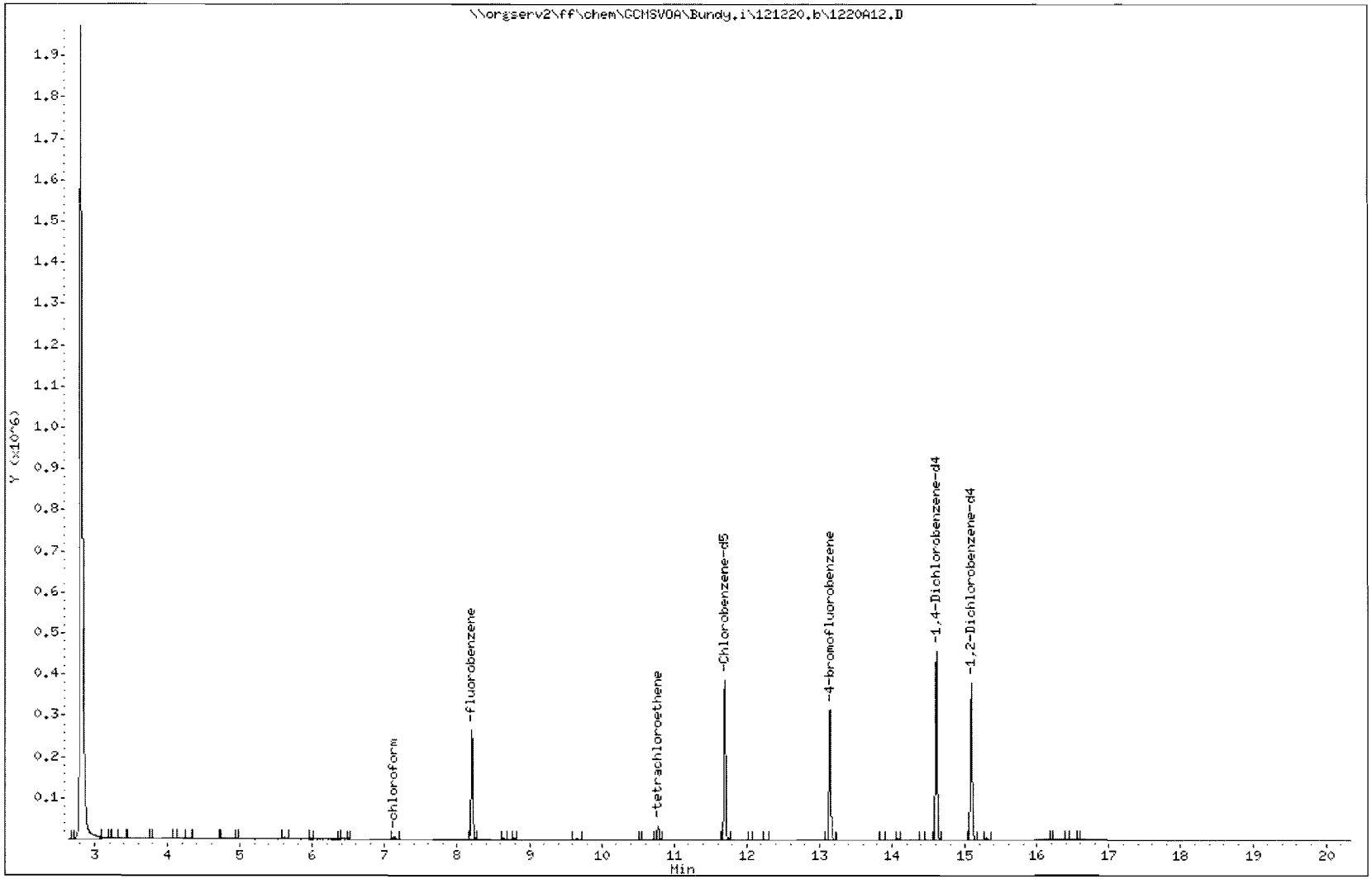
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	102.00	102.00	80-120
$ 59 1,2-Dichlorobenzen	100.00	100.99	101.00	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A12.D
Date : 20-DEC-2012 15:53
Client ID:
Sample Info: 11223074-06,31,25,,a
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A12.D

Date : 20-DEC-2012 15:53

Client ID:

Instrument: Bundy.i

Sample Info: 11223074-06,31,25,,a

Purge Volume: 25.0

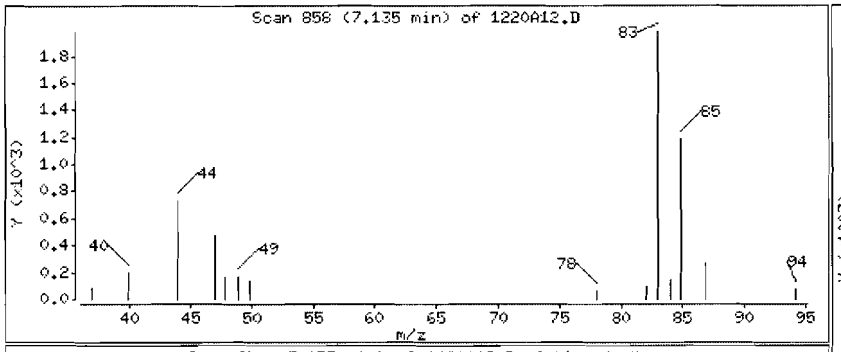
Operator: kl

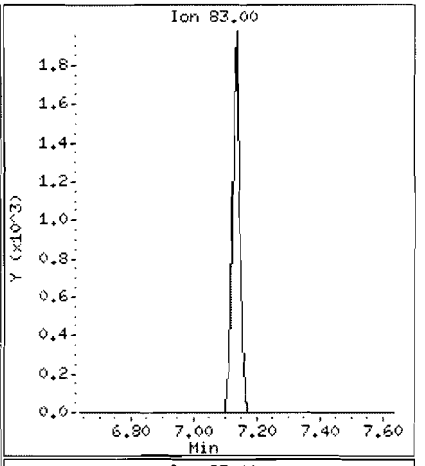
Column phase:

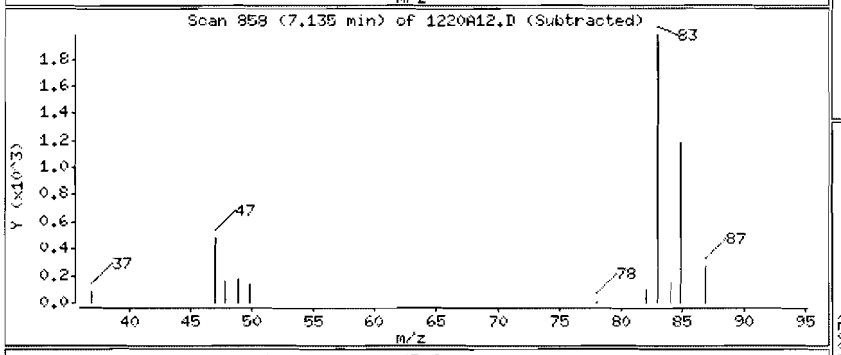
Column diameter: 0.18

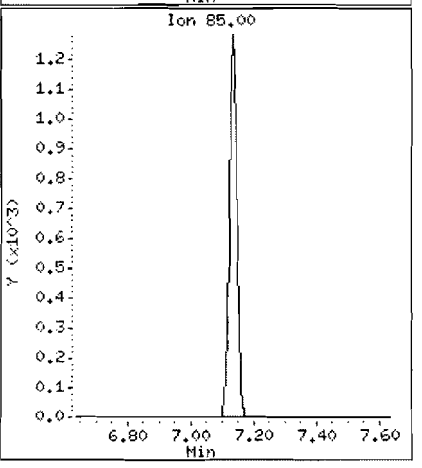
14 chloroform

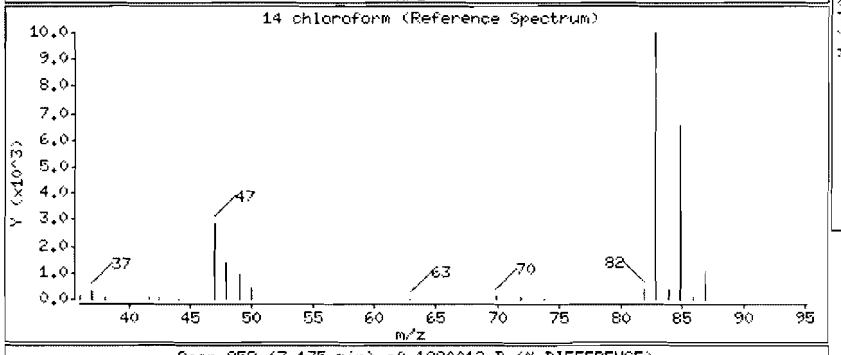
Concentration: 3.65 ngs

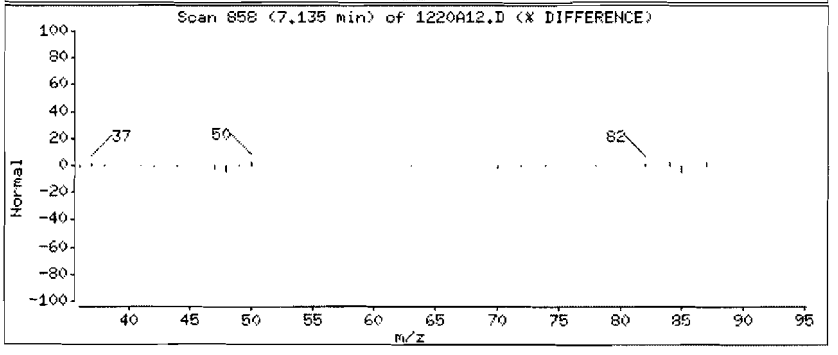












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A12.D

Date : 20-DEC-2012 15:53

Client ID:

Instrument: Bundy.i

Sample Info: l1223074-06,31,25,,a

Purge Volume: 25.0

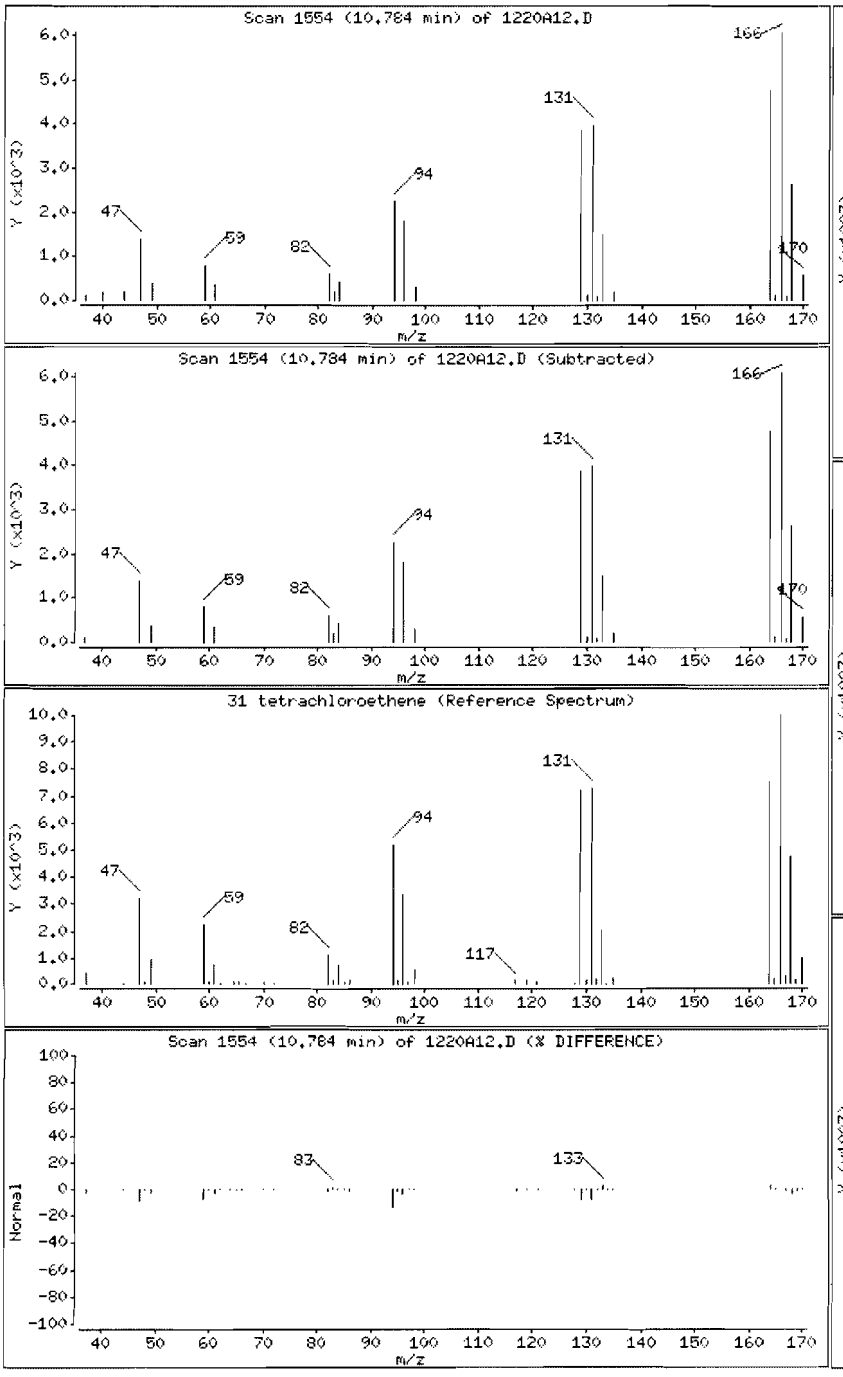
Operator: kl

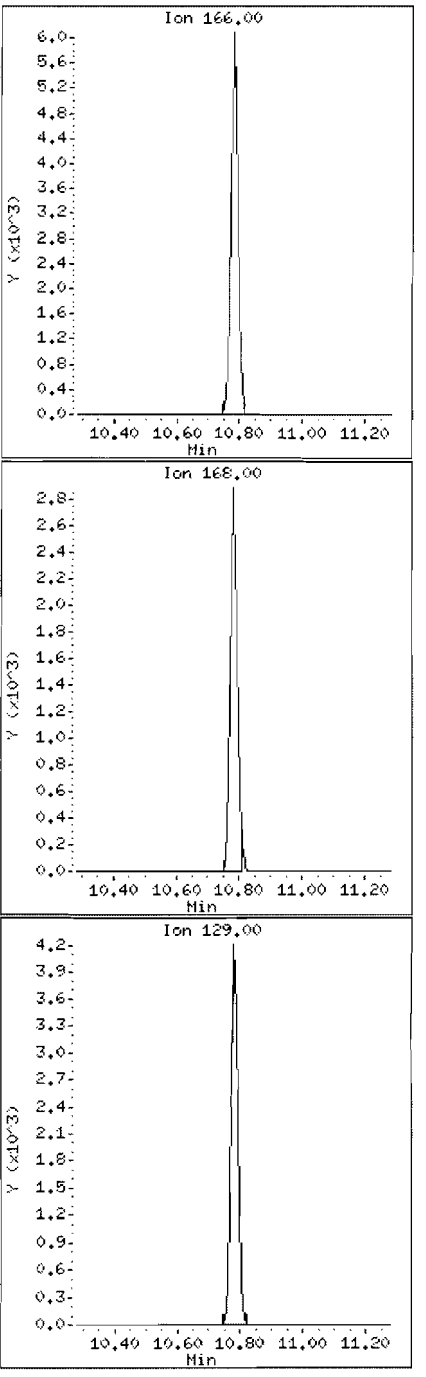
Column phase:

Column diameter: 0.18

31 tetrachloroethene

Concentration: 14.27 ngs





Volatiles Standards Data

Initial Calibration

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: BUNDY.I Calibration Date(s): 13-DEC-2012 13-DEC-2012

Calibration Times: 11:45 18:48

Calibration File Names:
Level 1: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A05.D
Level 2: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A04.D
Level 3: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A06.D
Level 4: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A07.D
Level 5: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A08.D
Level 6: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A09.D
Level 7: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A10.D
Level 8: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A11.D

Compound	2.500 Level 1	20.000 Level 2	100.000 Level 3	200.000 Level 4	350.000 Level 5	500.000 Level 6	RRF	% RSD
1 Dichlorodifluoromethane	0.4961	0.49668	0.48695	0.48042	0.48357	0.50473		
	0.46421	0.48129					0.49023	4.004
2 Chloromethane	0.59104	0.58446	0.51041	0.50000	0.46169	0.51489		
	0.49108	0.52611					0.51018	8.534
3 Vinyl chloride	0.55407	0.55771	0.54216	0.51921	0.48688	0.53196		
	0.49068	0.50169					0.51774	4.674
4 Bromomethane	0.15684	0.16314	0.18219	0.15921	0.14479	0.18226		
	0.14919	0.17965					0.16441	15.605
5 Chloroethane	0.31435	0.31390	0.30107	0.28843	0.26734	0.29767		
	0.27645	0.27615					0.29052	6.449
6 Trichlorofluoromethane	0.61049	0.61567	0.61771	0.59824	0.58870	0.64188		
	0.56394	0.58782					0.60918	5.001
7 1,1-Dichloroethene	0.39427	0.38402	0.38911	0.36960	0.36319	0.39186		
	0.37965	0.39865					0.38516	4.018
8 Methylene chloride	0.45847	0.40189	0.37317	0.35119	0.31852	0.36162		
	0.32419	0.39536					0.36219	11.716

FORM VI-524-2

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: BUNDY.I Calibration Date(s): 13-DEC-2012 13-DEC-2012

Calibration Times: 11:45 18:48

Compound	10.000 Level 1	20.000 Level 2	100.000 Level 3	200.000 Level 4	200.000 Level 5	500.000 Level 6	1000.000 Level 7	1000.000 Level 8	RRF	%RSD
9 Methyl-tert-butyl ether	0.70937	0.70870	0.72177	0.69504	0.69269	0.69703				
	0.66357	0.69379							0.69172	16.214
10 trans-1,2-dichloroethene	0.40136	0.41303	0.42726	0.39560	0.39020	0.41250				
	0.37782	0.39456							0.40140	4.709
11 1,1-dichloroethane	0.80120	0.79199	0.79871	0.77411	0.77205	0.80659				
	0.75977	0.77161							0.78354	4.551
12 2,2-dichloropropane	0.30673	0.28567	0.35734	0.32027	0.31224	0.37011				
	0.26814	0.43111							0.34121	18.966
13 cis-1,2-dichloroethene	0.44823	0.43741	0.42856	0.41065	0.38714	0.43874				
	0.39631	0.40917							0.41936	5.168
14 Chloroform	0.66995	0.65715	0.66452	0.64035	0.62178	0.66090				
	0.61512	0.64805							0.65048	4.836
15 Bromochloromethane	0.15027	0.15563	0.15434	0.15374	0.15034	0.16016				
	0.14997	0.14195							0.15353	3.457
16 1,1,1-trichloroethane	0.57684	0.61093	0.60069	0.57512	0.54738	0.61616				
	0.57284	0.60672							0.58159	6.570
17 1,1-dichloropropene	0.60427	0.58256	0.58014	0.56019	0.56246	0.57312				
	0.52407	0.53192							0.55770	5.905
18 Carbon tetrachloride	0.42405	0.39769	0.40117	0.38574	0.37804	0.39151				
	0.38486	0.39765							0.39446	3.136
19 1,2-dichloroethane	0.69405	0.68786	0.71168	0.70284	0.67812	0.70040				
	0.67015	0.69285							0.69258	2.102

FORM VI-524-2

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: BUNDY.I Calibration Date(s): 13-DEC-2012 13-DEC-2012

Calibration Times: 11:45 18:48

Compound	10.000 Level 1	20.000 Level 2	100.000 Level 3	200.000 Level 4	400.000 Level 5	500.000 Level 6	RRF	% RSD
22 Benzene	1.702043 1.654469	1.663852	1.638921	1.613878	1.591001	1.662213	1.630239	4.772
23 Trichloroethene	0.417751 0.414690	0.424191	0.426646	0.423846	0.401899	0.450181	0.440371	5.141
24 1,2-Dichloropropane	0.419643 0.411953	0.429283	0.417336	0.442026	0.407297	0.446261	0.442238	5.880
25 Dibromomethane	0.376158 0.408753	0.398180	0.424444	0.419979	0.387021	0.456499	0.413673	6.373
26 Bromomethane	0.166262 0.148916	0.196365	0.176814	0.165827	0.143786	0.179289	0.166213	7.364
27 cis-1,3-Dichloropropene	0.497771 0.434403	0.480665	0.519655	0.519321	0.470648	0.555152	0.504787	5.394
28 Toluene	1.184742 1.101946	1.164442	1.171344	1.146826	1.106012	1.211799	1.160455	3.606
29 trans-1,3-Dichloropropene	0.386813 0.392335	0.368306	0.414907	0.394483	0.368181	0.463194	0.399451	6.736
30 1,1,2-Trichloroethane	0.201779 0.177940	0.203219	0.210361	0.214257	0.186515	0.220307	0.201651	8.174
31 1,3-Dichloropropane	0.468201 0.761120	0.439111	0.439681	0.460115	0.381941	0.470641	0.486977	9.396
32 Tetrachloroethene	0.484462 0.478856	0.511060	0.515574	0.499421	0.481112	0.497941	0.490241	6.550

FORM VI-524-2

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: BUNDY.I Calibration Date(s): 13-DEC-2012 13-DEC-2012

Calibration Times: 11:45 18:48

Compound	10.000 Level 1	20.000 Level 2	100.000 Level 3	200.000 Level 4	500.000 Level 5	5000.000 Level 6	10000.000 Level 7	20000.000 Level 8	RRF	%RSD
32 dibromochloromethane	0.216497	0.216500	0.227145	0.226709	0.230636	0.230795				
	0.218561	0.220363							0.225745	11.513
33 1,2-dibromoethane	0.229356	0.235666	0.240594	0.236600	0.241441	0.240671				
	0.237001	0.239492							0.238455	1.843
34 chlorobenzene	1.273947	1.291511	1.310667	1.275586	1.310464	1.290412				
	1.297362	1.294774							1.297194	1.111
36 ethylbenzene	2.381114	2.428767	2.414173	2.419566	2.432431	2.419221				
	2.415271	2.410737							2.418835	0.653
37 1,1,1,2-tetrachloroethane	0.351534	0.360164	0.364153	0.366452	0.364143	0.360832				
	0.364227	0.368047							0.362515	1.481
38 p/m-xylenes	0.781209	0.841351	0.840766	0.837594	0.846677	0.842321				
	0.799427	0.799594							0.833162	4.416
39 o-xylenes	0.760276	0.782163	0.783476	0.781454	0.789403	0.782744				
	0.786750	0.791064							0.781257	3.405
40 styrene	1.387743	1.421492	1.467760	1.443753	1.471535	1.465840				
	1.438685	1.437294							1.450124	3.094
41 isopropylbenzene	2.737176	2.794212	2.781850	2.771774	2.814650	2.759776				
	2.804221	2.809400							2.787537	0.867
42 bromoform	0.182706	0.191965	0.196594	0.194904	0.198101	0.196759				
	0.191966	0.191593							0.194412	10.184
43 1,1,2,2-tetrachloroethane	0.268064	0.280669	0.278194	0.280449	0.283818	0.268945				
	0.284787	0.283965							0.280226	5.894

FORM VI-524-2

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: BUNDY.I Calibration Date(s): 13-DEC-2012 13-DEC-2012

Calibration Times: 11:45 18:48

Compound	0.500 Level 1	10.000 Level 2	100.000 Level 3	200.000 Level 4	300.000 Level 5	500.000 Level 6	RRF	%RSD
45 1,2,3-trichloropropane	1.17179	0.07410	0.07965	0.07504	0.08837	0.07931		
	1.04762	0.06742					0.07289	6.671
46 n-propylbenzene	2.77706	2.60257	2.62847	2.61473	2.48885	2.61199		
	2.63145	2.51105					2.59540	3.409
47 bromobenzene	0.50096	0.46673	0.50046	0.50046	0.46847	0.50784		
	0.47141	0.47416					0.49420	2.946
48 1,3,5-trimethylbenzene	1.86414	1.76298	1.79041	1.79588	1.72806	1.80585		
	1.77496	1.73486					1.78315	2.611
49 2-chlorotoluene	0.56262	0.53756	0.52291	0.51167	0.49306	0.51419		
	0.51647	0.48751					0.51053	5.242
50 p-chlorotoluene	1.71959	1.60726	1.65514	1.64161	1.59205	1.65584		
	1.60657	1.54507					1.58192	4.203
51 tert-butylbenzene	1.70761	1.64541	1.66241	1.66145	1.64406	1.64840		
	1.58909	1.54063					1.60763	3.470
52 1,2,4,-trimethylbenzene	1.92036	1.84514	1.83081	1.81615	1.78151	1.82838		
	1.76031	1.74590					1.81236	3.241
53 sec-butylbenzene	2.41735	2.37152	2.40851	2.39404	2.33741	2.38419		
	2.21695	2.25843					2.33799	3.513
54 p-isopropyltoluene	2.19110	2.09165	2.11164	2.09352	2.04406	2.09105		
	2.01301	1.98273					2.06974	3.864
55 1,3-dichlorobenzene	1.09552	1.06102	1.06567	1.07716	1.01277	1.07701		
	1.04611	1.03101					1.06213	3.213

FORM VI-524-2

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: BUNDY.I Calibration Date(s): 13-DEC-2012 13-DEC-2012

Calibration Times: 11:45 18:48

	Compound	10.000 Level 1	50.000 Level 2	100.000 Level 3	200.000 Level 4	300.000 Level 5	500.000 Level 6	RRF	% RSD
		1000.000 Level 7	2000.000 Level 8						
57	1,4-dichlorobenzene	2.01601 1.76577	1.82713 1.73795	1.86088	1.83910	1.77130	1.86265	1.84586	4.536
58	n-butylbenzene	3.48751 3.27770	3.30888 3.30392	3.50.37	3.45940	3.53405	3.61892	3.40120	4.043
60	1,2-dichlorobenzene	1.72995 1.69054	1.63049 1.63648	1.68710	1.66672	1.65.43	1.68.70	1.68476	4.054
61	1,2-dibromo-3-chloropropane	0.06822 0.06672	0.06991 0.07046	0.07067	0.06813	0.06210	0.07435	0.06886	7.512
62	1,2,4-trichlorobenzene	1.30163 1.17547	1.17049 1.10770	1.24854	1.24971	1.19184	1.24014	1.21387	3.712
63	hexachlorobutadiene	0.77112 0.73787	0.72621 0.71651	0.77538	0.73644	0.73.75	0.76496	0.74281	2.301
64	naphthalene	1.70207 1.68710	1.63174 1.74021	1.68894	1.73.64	1.65103	1.68613	1.75672	4.659
65	1,2,3-trichlorobenzene	1.03119 0.95082	0.97650 0.99461	1.04358	1.01454	1.00417	1.04952	1.00180	4.036
66	Xylene (total)	2.69025 2.79139	2.63415 2.77758	2.63870	2.62714	2.60.17	2.63749	2.67400	4.190
44	4-bromofluorobenzene	0.72647 0.72050	0.73619 0.71379	0.73507	0.72471	0.72515	0.72.81	0.72615	0.987
67	1,2-Dichlorobenzene-d4	1.36127 1.34754	1.26643 1.25147	1.27754	1.26181	1.25.98	1.26623	1.29861	0.714

FORM VI-524-2

Alpha Analytical Labs

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2012 11:45
End Cal Date : 13-DEC-2012 18:48
Quant Method : ISTD
Origin : Disabled
Target Version : 4.12
Integrator : HP RTE
Method file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Cal Date : 14-Dec-2012 09:59 Bundy.i
Curve Type : Average

Calibration File Names:
Level 1: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A05.D
Level 2: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A04.D
Level 3: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A06.D
Level 4: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A07.D
Level 5: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A08.D
Level 6: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A09.D
Level 7: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A10.D
Level 8: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A11.D

Compound	12.500 Level 1	25.000 Level 2	100.000 Level 3	200.000 Level 4	300.000 Level 5	500.000 Level 6	RRF	% RSD
	1000.000 Level 7	2000.000 Level 8						
1 dichlorodifluoromethane	0.49610	0.49666	0.47595	0.49543	0.48275	0.50671		
	0.48421	0.48589					0.48923	4.994
2 chloromethane	0.59144	0.52468	0.51341	0.51900	0.46189	0.51489		
	0.49136	0.50491					0.52319	7.534
3 vinyl chloride	0.53761	0.53711	0.54216	0.51921	0.48983	0.53165		
	0.44086	0.50265					0.51774	6.574
4 bromomethane	0.12624	0.13214	0.13124	0.13719	0.14479	0.15428		
	0.10430	0.15065					0.13441	15.60
5 chloroethane	0.21456	0.21760	0.24830	0.23048	0.26754	0.29704		
	0.27345	0.29415					0.25192	9.465
6 trichlorofluoromethane	0.61549	0.61567	0.61731	0.59524	0.58976	0.62418		
	0.56525	0.60752					0.59610	3.041
7 1,1-dichloroethene	0.36	0.36462	0.35171	0.36094	0.33319	0.37146		
	0.34455	0.35385					0.36526	4.013
8 methylene chloride	0.40377	0.40104	0.37617	0.35419	0.31562	0.36162		
	0.31919	0.35526					0.36971	11.76

Alpha Analytical Labs

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2012 11:45
End Cal Date : 13-DEC-2012 18:48
Quant Method : ISTD
Origin : Disabled
Target Version : 4.12
Integrator : HP RTE
Method file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Cal Date : 14-Dec-2012 09:59 Bundy.i
Curve Type : Average

Compound	10.000 Level 1	20.000 Level 2	100.000 Level 3	200.000 Level 4	300.000 Level 5	500.000 Level 6	1000.000 Level 7	2000.000 Level 8	RRF	% RSD
9 methyl-tert-butyl ether	0.7_987	0.7d870	0.72177	0.63514	0.69168	0.67365	0.6s1 2		0.6s1 2	10.214
	0.56557	0.59379								
10 trans-1,3-Dichloropropene	0.42127	0.41302	0.41752	0.39027	0.39730	0.41920	0.40040		0.40040	4.709
	0.37812	0.39458								
11 1,1-dichloroethane	0.5728%	0.74183	0.74571	0.774 1	0.72238	0.80859	0.77936		0.77936	4.05%
	0.73_7	0.77155								
12 2,2-dichloropropane	0.30473	0.28367	0.27734	0.31029	0.31629	0.37011	0.34111		0.34111	13.946
	0.36614	0.40511								
13 cis-1,3-dichloropropene	0.44822	0.43841	0.42756	0.41963	0.4e714	0.47374	0.4 [illegible]		0.4 [illegible]	5.1[illegible]
	0.3[illegible]	0.40917								
14 chloroform	0.65895	0.65715	0.66452	0.6495[illegible]	0.6 [illegible]	0.68020	0.67368		0.67368	4.85[illegible]
	0.61612	0.64805								
15 bromochloromethane	0.1152[illegible]	0.19603	0.16419	0.16779	0.1[illegible]	0.1ec15	0.15[illegible]		0.15[illegible]	7.45[illegible]
	0.17[illegible]	0.14295								
16 1,1,1-trichloroethane	0.57[illegible]	0.55[illegible]	0.60[illegible]	0.57[illegible]	0.5[illegible]	0.61[illegible]	0.5[illegible]		0.5[illegible]	4.[illegible]
	0.5[illegible]	0.[illegible]								
17 1,1-dichloropropene	0.6[illegible]	0.5[illegible]	0.[illegible]	0.[illegible]	0.[illegible]	0.[illegible]	0.55720		0.55720	5.[illegible]
	0.5[illegible]	0.[illegible]								
18 carbon tetrachloride	0.426[illegible]	0.39[illegible]	0.41[illegible]	0.[illegible]	0.[illegible]	0.[illegible]	0.414[illegible]		0.414[illegible]	11.[illegible]
	0.[illegible]	0.[illegible]								
19 1,2-dichloroethane-	0.4692[illegible]	0.[illegible]	0.[illegible]	0.[illegible]	0.[illegible]	0.44[illegible]	0.4[illegible]		0.4[illegible]	3.[illegible]
	0.[illegible]	0.[illegible]								

Alpha Analytical Labs

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2012 11:45
End Cal Date : 13-DEC-2012 18:48
Quant Method : ISTD
Origin : Disabled
Target Version : 4.12
Integrator : HP RTE
Method file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Cal Date : 14-Dec-2012 09:59 Bundy.i
Curve Type : Average

Compound	1.5000 Level 1	20.0000 Level 2	100.000 Level 3	200.000 Level 4	300.000 Level 5	500.000 Level 6	RRF	% RSD
	0.0600 Level 1	80.0000 Level 4						
10 benzene	1.71262	1.66398	1.66822	1.67978	1.61505	1.67223		
	1.63942	1.63466					1.66879	1.777
11 trichloroethene	0.47057	0.41410	0.42648	0.43344	0.41698	0.45018		
	0.41453	0.43159					0.44037	5.241
23 1,2-dichloropropane	0.47734	0.46703	0.45785	0.44702	0.40729	0.46551		
	0.43162	0.42833					0.44525	5.005
24 dibromomethane	0.33825	0.33561	0.32414	0.31979	0.30702	0.33499		
	0.30755	0.32763					0.32130	4.273
25 dichloromethane	0.16562	0.16085	0.15604	0.16307	0.14572	0.17089		
	0.14856	0.15494					0.16213	7.344
26 cis-1,3-dichloropropene	0.49731	0.46763	0.45964	0.45771	0.47263	0.55152		
	0.47407	0.51121					0.50737	5.194
27 toluene	1.16421	1.15492	1.11544	1.08370	1.08224	1.11539		
	1.07092	1.09839					1.09752	3.606
28 trans-1,3-dichloropropene	0.36810	0.33306	0.34405	0.33440	0.36182	0.43124		
	0.32552	0.40068					0.36045	8.736
29 1,1,2-trichloroethane	0.20127	0.19359	0.18954	0.19053	0.18413	0.20867		
	0.17803	0.18644					0.19183	4.275
30 1,3-dichloropropane	0.46905	0.43911	0.43562	0.43015	0.36134	0.41641		
	0.38112	0.39865					0.40307	8.396
31 tetrachloroethene	0.51942	0.51064	0.51079	0.49047	0.48182	0.49744		
	0.45036	0.47522					0.49541	6.253

Alpha Analytical Labs

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2012 11:45
End Cal Date : 13-DEC-2012 18:48
Quant Method : ISTD
Origin : Disabled
Target Version : 4.12
Integrator : HP RTE
Method file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Cal Date : 14-Dec-2012 09:59 Bundy.i
Curve Type : Average

Compound	11.5ng Level 1	20.0ng Level 2	50.0ng Level 3	200.0ng Level 4	300.0ng Level 5	500.0ng Level 6	RRF	%RSD
	1000.0ng Level 7	1200.0ng Level 8						
32 dibromochloromethane	0.21307	0.21650	0.21743	0.21704	0.21556	0.21877		
	0.21656	0.21858					0.21740	11.41%
33 1,2-dibromoethane	0.22923	0.23086	0.23184	0.23364	0.23644	0.23463		
	0.23091	0.22480					0.23193	4.74%
36 chlorobenzene	1.07387	1.09161	1.09467	1.07136	1.07764	1.06741		
	1.08407	1.10474					1.08124	4.65%
34 ethylbenzene	2.36119	2.38777	2.31417	2.31466	2.33342	2.31911		
	2.31221	2.30777					2.33425	3.88%
37 1,1,1,2-tetrachloroethane	0.38139	0.35016	0.39315	0.39452	0.38159	0.40637		
	0.38432	0.38047					0.38815	4.41%
38 m/p-xylenes	0.81800	0.81105	0.84076	0.83159	0.84837	0.84262		
	0.79643	0.77584					0.82114	4.91%
39 o-xylenes	0.86296	0.85065	0.83476	0.81634	0.83047	0.83274		
	0.78730	0.79106					0.82523	3.41%
40 styrene	1.35775	1.32442	1.34503	1.34253	1.37012	1.33540		
	1.30463	1.30804					1.34174	5.09%
41 isopropylbenzene	2.27787	2.13213	2.18916	2.17157	2.18453	2.15275		
	2.20103	2.07900					2.15651	3.06%
4 bromofluorobenzene	0.11708	0.11995	0.14556	0.14703	0.14341	0.15729		
	0.15096	0.16243					0.14425	13.15%
46 1,1,2,2-tetrachloroethane	1.16962	0.15065	0.07319	0.05664	0.05424	0.06040		
	0.06781	0.05563					0.08776	0.0054

Alpha Analytical Labs

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2012 11:45
End Cal Date : 13-DEC-2012 18:48
Quant Method : ISTD
Origin : Disabled
Target Version : 4.12
Integrator : HP RTE
Method file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Cal Date : 14-Dec-2012 09:59 Bundy.i
Curve Type : Average

Compound	10.000 Level 1	20.000 Level 2	50.000 Level 3	100.000 Level 4	150.000 Level 5	500.000 Level 6	RRF	% RSD
	200.000 Level 7							
45 1,2,3-trichloropropane	0.07579	0.07459	0.07383	0.07504	0.07697	0.07081		
	0.08662	0.08342					0.07709	6.671
46 n-propylbenzene	2.47506	2.46357	2.67847	3.60445	3.45562	3.61190		
	2.53245	2.51105					2.99540	3.409
47 bromobenzene	0.52068	0.50363	0.50540	0.50040	0.46047	0.50759		
	0.47197	0.47416					0.49426	3.945
48 1,3,5-trimethylbenzene	1.76014	1.76098	1.52365	1.79383	1.71865	1.80695		
	1.75443	1.73875					1.78315	2.011
49 o-chlorotoluene	0.50142	0.51756	0.52297	0.51167	0.48365	0.51210		
	0.50747	0.48751					0.50855	5.242
50 4-chlorotoluene	1.74452	1.78026	1.92534	1.84262	1.81020	1.85592		
	1.76767	1.74507					1.84185	4.270
51 tert-butylbenzene	1.70251	1.64542	1.61740	1.60185	1.54066	1.67640		
	1.58909	1.54623					1.60979	3.473
52 1,2,4-trimethylbenzene	1.87056	1.84514	1.62034	1.81625	1.75152	1.82836		
	1.76071	1.74194					1.81235	5.242
53 sec-butylbenzene	2.47255	2.37151	2.30560	2.53404	2.29741	2.38468		
	2.26085	2.23543					2.37169	5.513
54 p-isopropyltoluene	2.19215	2.09175	2.01664	2.07855	1.99428	2.07603		
	1.97301	1.96363					2.06976	3.166
55 1,3-dichlorobenzene	1.08534	1.08102	1.06063	1.07716	1.01282	1.07701		
	1.09521	1.07101					1.08313	3.311

Alpha Analytical Labs

INITIAL CALIBRATION DATA

Start Cal Date : 13-DEC-2012 11:45
End Cal Date : 13-DEC-2012 18:48
Quant Method : ISTD
Origin : Disabled
Target Version : 4.12
Integrator : HP RTE
Method file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Cal Date : 14-Dec-2012 09:59 Bundy.i
Curve Type : Average

Compound	1.500 Level 1	20.000 Level 2	40.000 Level 3	80.000 Level 4	120.000 Level 5	200.000 Level 6	RSF	% RSD
	2000.000 Level 7							
57 1,4-dichlorobenzene	2.01401	1.85763	1.96033	1.83123	1.77130	1.86205		
	1.76577	1.75756					1.84267	4.33
58 n-butylbenzene	3.48721	3.54888	3.50257	3.49943	3.52103	3.4162		
	3.80778	3.86396					3.63222	1.343
59 1,2-dichloroethane	1.72985	1.83528	1.80710	1.80671	1.83451	1.81170		
	1.81624	1.66646					1.78472	4.614
60 1,1-dichloro-3-chloropropene	0.06182	0.06961	0.07067	0.06913	0.06920	0.07435		
	0.06683	0.07046					0.06955	7.581
62 1,2,4-trichlorobenzene	1.36163	1.17829	1.24024	1.24.72	1.20166	1.24316		
	1.17517	1.2057					1.22377	5.712
63 hexachlorobutadiene	0.77173	0.76921	0.77535	0.75444	0.77225	0.76590		
	0.73767	0.75561					0.75251	1.361
64 naphthalene	1.76279	1.67174	1.76384	1.70764	1.68717	1.76139		
	1.68719	1.74621					1.72552	4.035
65 1,2,3-trichlorobenzene	1.05179	0.99655	1.04256	1.01464	0.99677	1.03932		
	0.97682	0.96447					1.01620	4.134
66 o-Xylene (sta.)	0.69671	0.69451	0.68876	0.68724	0.67107	0.65549		
	0.74539	0.77756					0.69600	4.940
S 44 4-bromofluorobenzene	0.72077	0.72619	0.73537	0.72431	0.72118	0.7.731		
	0.72032	0.71379					.726.3	1.977
S 19 1,2-dichloroethene-d4	1.26427	1.25648	1.27754	1.26161	1.25.2.4	1.26879		
	1.24734	1.25.45					1.25661	0.714

Alpha Analytical Labs

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\BFB1213B.D
Lab Smp Id:
Inj Date : 13-DEC-2012 08:15
Operator : kl Inst ID: Bundy.i
Smp Info : bfb tune (lul dir inj)
Misc Info : 25 ng std
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\bfb.m
Meth Date : 06-Oct-2011 16:04 klongeneck Quant Type: ISTD
Cal Date : 22-JUN-1994 11:13 Cal File: 622c0101001.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ng/L)	FINAL (ng/L)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 BIB						CAS #: 460-00-4		
7.003	6.993	(0.000)	95	71551			100.00- 100.00	100.00
7.009	6.999	(0.000)	50	14367			15.00- 40.00	19.59
7.009	6.999	(0.000)	75	45961			30.00- 60.00	45.77
7.009	6.999	(0.000)	96	1427			5.00- 9.00	6.91
7.009	6.999	(0.000)	173	2.5			1.00- 7.00	0.33
7.009	6.999	(0.000)	174	69099			50.00- 100.00	96.56
7.009	6.999	(0.000)	175	5155			5.00- 9.00	7.15
7.009	6.999	(0.000)	176	69524			95.00- 101.00	96.66
7.009	6.999	(0.000)	177	4987			5.00- 9.00	6.90

Alpha Analytical Labs

TARGET COMPOUNDS

Client Name:
Client SDG: SDGa03020
Lab Smp Id:
Sample Location:
Sample Point:
Sample Date:
Date Received:
Sample Matrix: WATER
Quant Type: ISTD
Analysis Type: bfb
Level: LOW
Data Type: MS DATA
Operator: kl
Misc Info: 25 ng std

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	bfb	0.0	

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\BFB1213B.D

Date : 13-DEC-2012 08:15

Client ID:

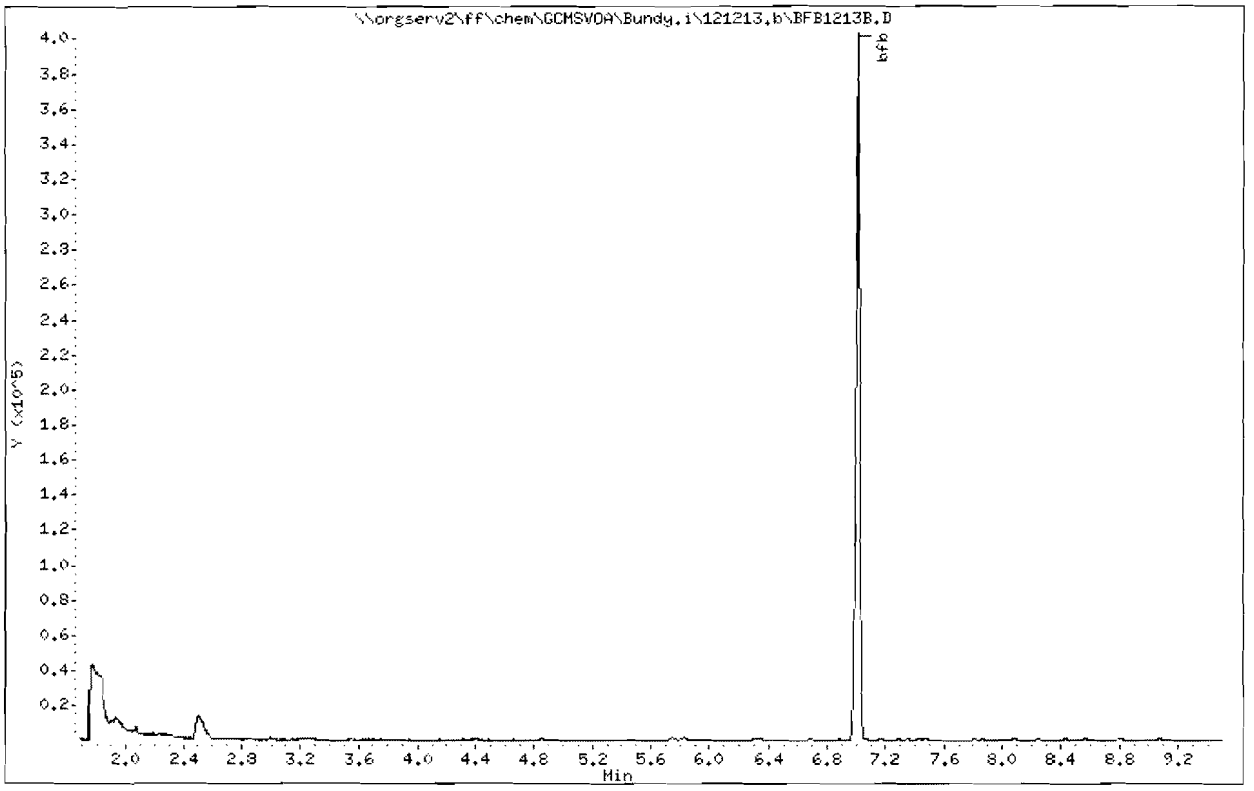
Instrument: Bundy.i

Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase:

Column diameter: 2.00



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121213.b\BFB1213B.D

Date : 13-DEC-2012 08:15

Client ID:

Instrument: Bundy.i

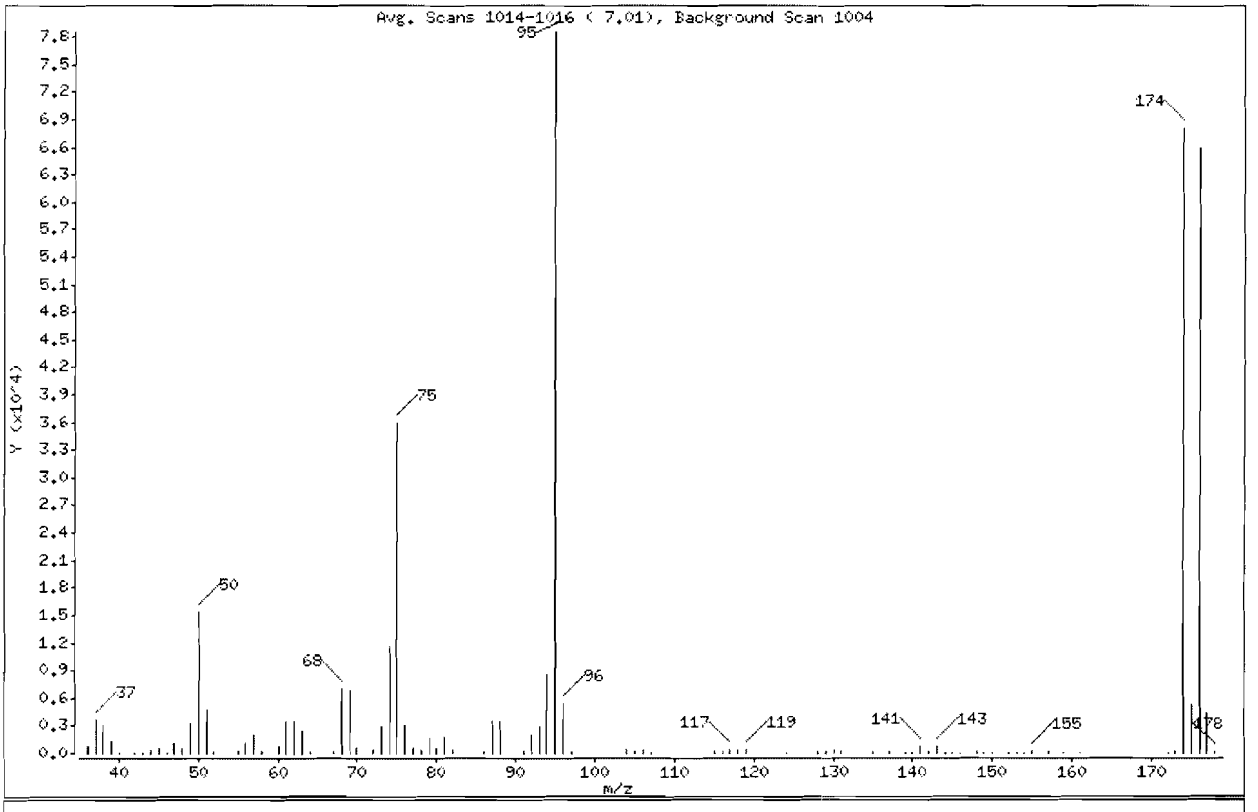
Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase:

Column diameter: 2.00

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	19.59
75	30.00 - 60.00% of mass 95	45.79
96	5.00 - 9.00% of mass 95	6.91
173	Less than 2.00% of mass 174	0.29 (0.33)
174	50.00 - 100.00% of mass 95	86.69
175	5.00 - 9.00% of mass 174	6.57 (7.58)
176	95.00 - 101.00% of mass 174	83.80 (96.66)
177	5.00 - 9.00% of mass 176	5.61 (6.70)

Date : 13-DEC-2012 08:15

Client ID: Instrument: Bundy.i

Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase: Column diameter: 2.00

Data File: BFB1213B.D
Spectrum: Avg. Scans 1014-1016 (7.01), Background Scan 1004
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	704	63.00	2423	94.00	8499	142.00	102
37.00	3525	64.00	256	95.00	78552	143.00	708
38.00	3072	67.00	204	96.00	5427	144.00	22
39.00	1308	68.00	6985	97.00	203	145.00	19
40.00	26	69.00	6943	104.00	291	146.00	81
42.00	17	70.00	526	105.00	103	148.00	164
43.00	24	72.00	369	106.00	278	149.00	41
44.00	316	73.00	2860	107.00	68	150.00	54
45.00	610	74.00	11629	115.00	91	152.00	17
46.00	59	75.00	35368	116.00	252	153.00	58
47.00	1157	76.00	2998	117.00	407	154.00	17
48.00	505	77.00	509	118.00	284	155.00	200
49.00	3198	78.00	321	119.00	373	157.00	146
50.00	15387	79.00	1599	124.00	53	159.00	76
51.00	4710	80.00	507	128.00	270	161.00	52
52.00	206	81.00	1851	129.00	154	172.00	58
55.00	155	82.00	326	130.00	337	173.00	228
56.00	1093	86.00	100	131.00	103	174.00	68096
57.00	1952	87.00	3461	135.00	124	175.00	5159
58.00	103	88.00	3374	137.00	95	176.00	65824
60.00	739	91.00	211	139.00	20	177.00	4407
61.00	3388	92.00	1955	140.00	88	178.00	112
62.00	3348	93.00	2877	141.00	705		

Alpha Analytical Labs

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\BFB1214B.D
Lab Smp Id:
Inj Date : 14-DEC-2012 08:49
Operator : kl Inst ID: Bundy.i
Smp Info : bfb tune (1ul dir inj)
Misc Info : 25 ng std
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\bfb.m
Meth Date : 06-Oct-2011 16:04 klongeneck Quant Type: ISTD
Cal Date : 22-JUN-1994 11:13 Cal File: 622c0101001.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	Delta RT	Rel RT	Mass	Response	ON-COL (ng/ul)	FINAL (ng/l)	TARGET RANGE	RATIO
1 PFB							CAS #: 460-00-4	
7.077	0.830	0.000	95	61764			100.00- 100.00	100.00
7.213	0.968	0.000	50	12113			15.00- 40.00	19.61
7.819	0.000	0.000	75	28176			30.00- 60.00	45.60
7.913	0.837	0.000	96	4137			5.00- 9.00	6.69
7.918	0.842	0.000	173	765			0.00- 1.00	0.99
8.016	0.940	0.000	174	56184			95.00- 101.00	90.91
8.816	0.940	0.000	175	4163			5.00- 9.00	6.73
8.918	0.942	0.000	176	54420			95.00- 101.00	88.02
9.018	0.940	0.000	177	3440			5.00- 9.00	6.35

Alpha Analytical Labs

TARGET COMPOUNDS

Client Name: Client SDG: SDGa03020
Lab Smp Id:
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: bfb Level: LOW
Data Type: MS DATA Operator: kl
Misc Info: 25 ng std

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	--------bfb	0.0	

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\BFB1214B.D

Date : 14-DEC-2012 08:49

Client ID:

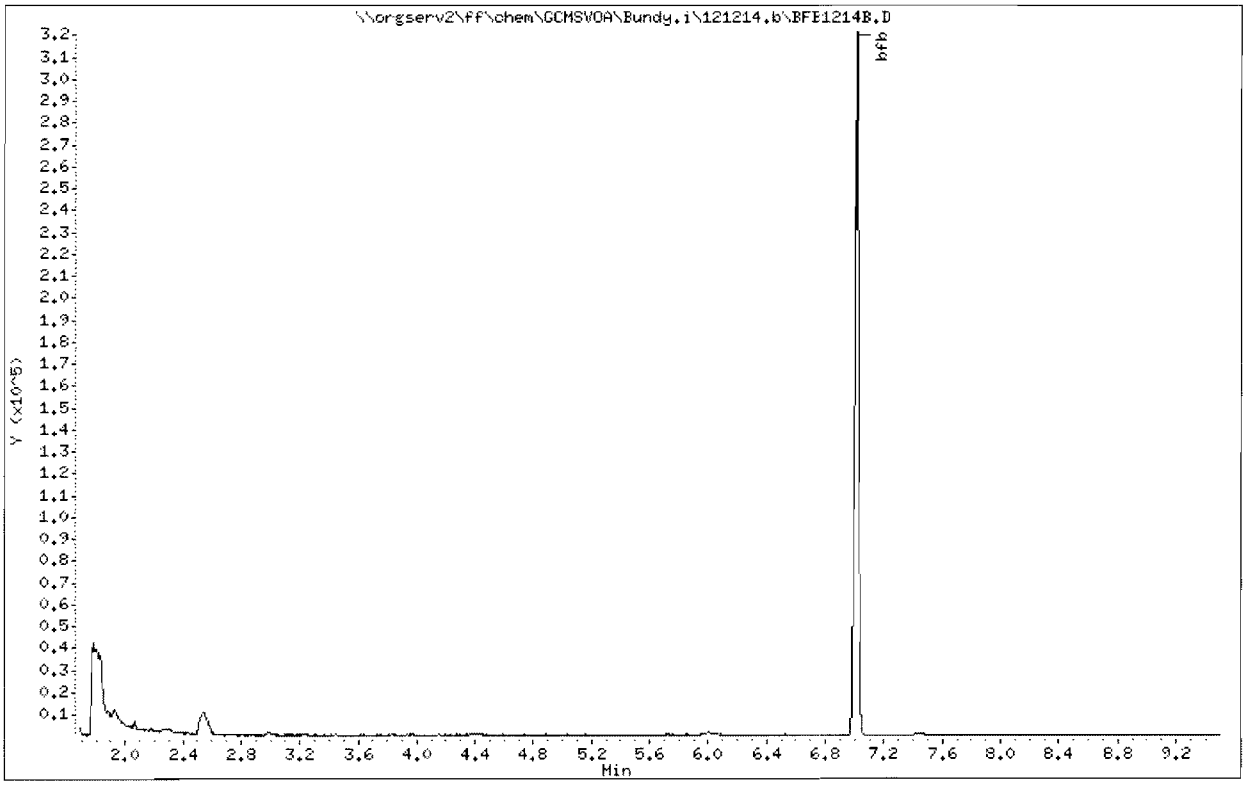
Instrument: Bundy.i

Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase:

Column diameter: 2.00



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121214.b\BFB1214B.D

Date : 14-DEC-2012 08:49

Client ID:

Instrument: Bundy.i

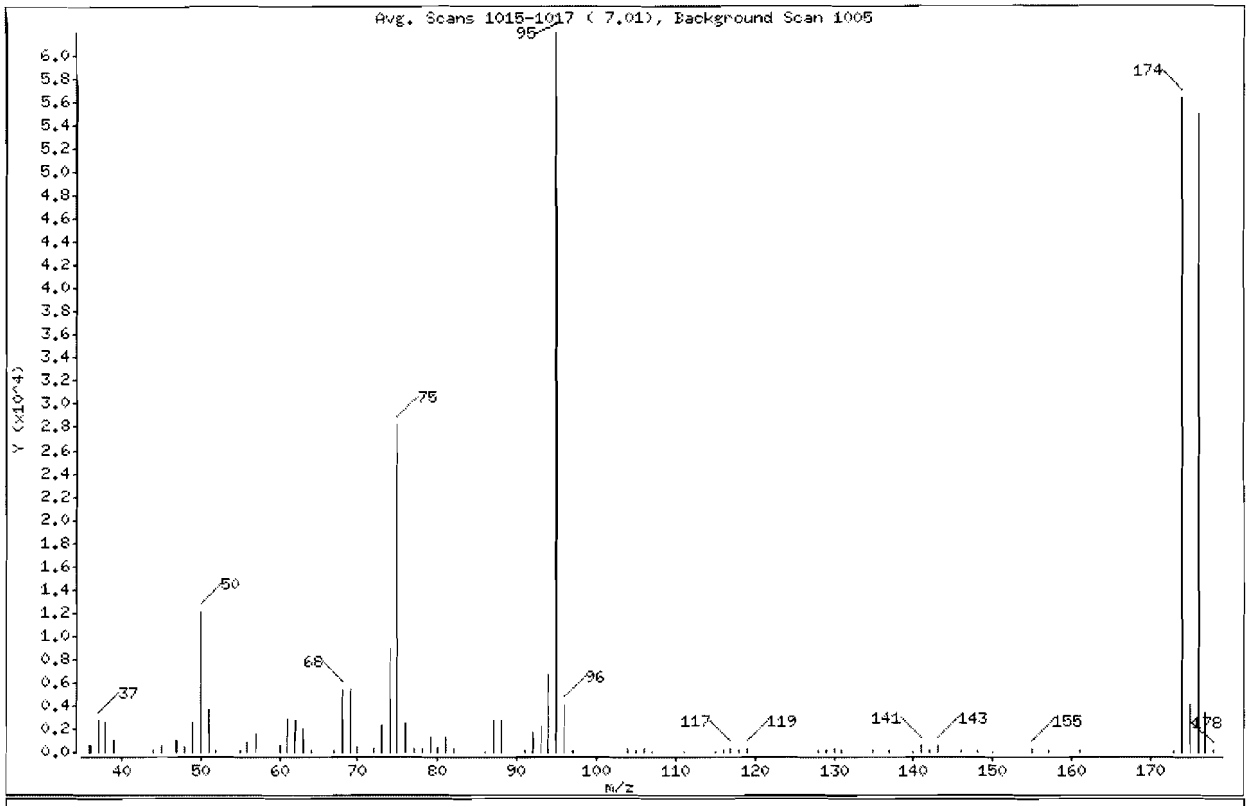
Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase:

Column diameter: 2.00

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	19.54
75	30.00 - 60.00% of mass 95	45.46
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.25 (0.28)
174	50.00 - 100.00% of mass 95	90.80
175	5.00 - 9.00% of mass 174	6.69 (7.37)
176	95.00 - 101.00% of mass 174	88.60 (97.58)
177	5.00 - 9.00% of mass 176	5.63 (6.35)

Date : 14-DEC-2012 08:49

Client ID: Instrument: Bundy.i

Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase: Column diameter: 2.00

Data File: BFB1214B.D
Spectrum: Avg. Scans 1015-1017 (7.01), Background Scan 1005
Location of Maximum: 95.00
Number of points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	547	67.00	122	93.00	2273	137.00	115
37.00	2772	68.00	5478	94.00	6742	140.00	18
38.00	2494	69.00	5403	95.00	61984	141.00	623
39.00	959	70.00	359	96.00	4137	142.00	83
44.00	205	72.00	292	97.00	118	143.00	614
45.00	520	73.00	2287	104.00	290	146.00	90
47.00	1000	74.00	9006	105.00	93	148.00	141
48.00	411	75.00	28176	106.00	228	150.00	46
49.00	2598	76.00	2532	107.00	41	155.00	222
50.00	12113	77.00	332	111.00	18	157.00	105
51.00	3681	78.00	267	115.00	63	161.00	128
52.00	162	79.00	1225	116.00	168	173.00	155
55.00	203	80.00	380	117.00	313	174.00	56280
56.00	875	81.00	1247	118.00	200	175.00	4149
57.00	1510	82.00	324	119.00	280	176.00	54920
60.00	551	86.00	29	128.00	193	177.00	3490
61.00	2791	87.00	2674	129.00	114	178.00	80
62.00	2694	88.00	2638	130.00	218		
63.00	2020	91.00	185	131.00	103		
64.00	147	92.00	1665	135.00	137		

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A05.D
Lab Smp Id:
Inj Date : 13-DEC-2012 13:18
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 1
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 11:45 Cal File: 1213A04.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT S.G MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)		REVIEW CODE
1 Dichlorodifluoromethane	85	2.066	2.066	(0.374)	10087	12.5000	12.60		
2 Chloromethane	50	2.396	2.396	(0.433)	12477	12.5000	14.13		
3 Vinyl chloride	62	2.527	2.527	(0.458)	11178	12.5000	13.97		
4 Bromomethane	94	4.068	4.068	(0.736)	7632	12.5000	10.26	MH	M1
5 Chloroethane	64	4.152	4.152	(0.751)	6513	12.5000	15.44		
6 Trichlorofluoromethane	101	4.479	4.480	(0.811)	12972	12.5000	12.61		
7 1,1-dichloroethene	96	5.111	5.111	(0.925)	8149	12.5000	13.41		
8 Methylene chloride	84	5.609	5.609	(1.015)	9126	12.5000	15.17		
9 Methyl-tert-butyl ether	73	5.735	5.735	(1.038)	15135	12.5000	13.99		
10 trans-1,2-dichloroethene	96	5.917	5.918	(1.071)	8744	12.5000	13.15		
11 1,1-dichloroethane	63	6.343	6.343	(1.148)	17269	12.5000	13.34		
12 2,2-dichloropropane	77	6.520	6.520	(1.180)	6785	12.5000	11.20		
13 cis-1,2-dichloroethene	96	6.997	6.997	(1.266)	9301	12.5000	13.36		
14 Chloroform	83	7.135	7.135	(1.292)	14437	12.5000	13.25		
15 Bromochloromethane	128	7.324	7.324	(1.325)	3773	12.5000	12.69		
16 1,1,1-trichloroethane	97	7.563	7.563	(1.369)	11941	12.5000	13.39		
17 1,1-dichloropropene	75	7.712	7.712	(1.396)	12590	12.5000	13.61		
18 Carbon tetrachloride	117	7.837	7.837	(1.419)	9841	12.5000	11.60		
19 1,2-dichloroethane	62	7.974	7.974	(1.443)	9755	12.5000	13.85	MH	M1
20 Benzene	78	8.010	8.010	(1.450)	36851	12.5000	13.39		
* 21 Fluorobenzene	96	8.004	8.004	(1.000)	247911	150.000			
22 Trichloroethene	130	8.840	8.840	(1.105)	8962	12.5000	13.49		
23 1,2-dichloropropane	63	8.917	8.918	(1.115)	7016	12.5000	13.43		
24 Dibromomethane	93	9.060	9.060	(1.132)	6011	12.5000	11.60		
25 Bromodichloromethane	83	9.164	9.164	(1.145)	8498	12.5000	11.99		
26 cis-1,3-dichloropropene	75	9.641	9.641	(1.205)	14846	12.5000	13.25		
27 Toluene	91	10.024	10.024	(1.253)	24116	12.5000	13.41		
28 trans-1,3-dichloropropene	75	10.176	10.176	(1.272)	7597	12.5000	11.72		

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A05.D Page 2
Report Date: 14-Dec-2012 09:59

		QUANT SIG					AMOUNTS		
							CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	49 1,1,2-trichloroethane	83	10.320	10.3[illegible]	(1.265)	[illegible]	12.5000	15.16	
	50 1,3-dichloropropane	76	10.663	10.663	(1.300)	9[illegible]	12.5000	14.1[illegible]	
	51 tetrachloroethene	166	10.754	10.754	(1.314)	11[illegible]	12.5000	13.91	
	52 dibromochloromethane	129	11.0[illegible]5	11.0[illegible]	(1.344)	462[illegible]	12.5000	10.12	
	53 1,2-dibromoethane	107	11.2[illegible]	11.172	(0.964)	4533	12.5000	11.36	
*	54 Chlorobenzene-d5	117	11.696	11.696	(1.000)	237175	150.000		
	55 chlorobenzene	112	11.743	11.743	(1.004)	27[illegible]	12.5000	13.60	
	56 ethylbenzene	91	11.770	11.770	(1.006)	46662	12.5000	15.71	
	57 1,1,1,2-tetrachloroethane	131	11.770	11.770	(1.[illegible])	[illegible]	12.5000	11.37	
	58 p/m-xylenes	106	11.854	11.854	(1.013)	36090	25.0000	27.45	
	59 o-xylenes	106	12.394	12.394	(1.0[illegible])	1[illegible]052	12.5000	13.11	
	60 styrene	104	12.439	12.430	(1.065)	[illegible]	12.5000	1[illegible].34	
	61 isopropylbenzene	105	12.805	12.807	(1.095)	54920	12.5000	15.17	
	62 bromoform	173	12.903	12.9[illegible]	(1.103)	2314	12.5000	10.14	
	63 1,1,2,2-tetrachloroethane	83	13.012	13.011	(1.113)	[illegible]	12.5000	12.41	
$	64 4-bromofluorobenzene	95	13.136	13.133	(1.123)	115[illegible]	150.000	140.36	
	65 1,2,3-trichloropropane	110	13.208	13.0[illegible]6	(1.129)	[illegible]	12.5000	10.99(M)	M
	66 n-propylbenzene	91	13.295	13.29[illegible]	(1.137)	54846	12.5000	15.36	
	67 bromobenzene	156	13.416	13.416	(1.147)	13[illegible]91	12.5000	13.1[illegible]	
	68 1,3,5-trimethylbenzene	105	13.484	13.484	(1.1[illegible])	36044	12.5000	13.36	
	69 o-chlorotoluene	126	13.563	13.563	(1.160)	[illegible]	12.5000	13.50	
	70 p-chlorotoluene	91	13.605	13.605	(1.163)	[illegible]	12.5000	13.58	
	71 tert-butylbenzene	119	13.930	13.930	(1.191)	[illegible]	12.5000	13.28	
	72 1,2,4,-trimethylbenzene	105	13.987	13.987	(1.195)	[illegible]	12.5000	13.74	
	73 sec-butylbenzene	105	14.192	14.192	(1.213)	[illegible]	12.5000	13.35	
	74 p-isopropyltoluene	119	14.348	14.348	(1.227)	[illegible]	12.5000	13.23	
	75 1,3-dichlorobenzene	146	14.527	14.528	(0.994)	21[illegible]77	12.5000	13.38	
*	76 1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	1203[illegible]	150.000		
	77 1,4-dichlorobenzene	146	14.653	14.653	(1.003)	21[illegible]	12.5000	13.65	
	78 n-butylbenzene	91	14.855	14.855	(1.[illegible])	[illegible]	12.5000	1[illegible].51	
$	79 1,2-dichlorobenzene-d4	152	15.097	15.093	(1.0[illegible])	10[illegible]19	150.000	150.21	
	80 1,2-dichlorobenzene	146	15.120	15.120	(1.035)	1[illegible]94	12.5000	13.35	
	81 1,2-dibromo-3-chloropropane	75	16.048	16.047	(1.098)	6[illegible]	12.5000	11.63	
	82 1,2,4-trichlorobenzene	182	17.128	17.128	(1.172)	14[illegible]43	12.5000	13.29	
	83 hexachlorobutadiene	225	17.2[illegible]	17.22[illegible]	(1.1[illegible])	[illegible]	12.5000	12.81	
	84 naphthalene	128	17.5[illegible]0	17.500	(1.198)	[illegible]	12.5000	12.5[illegible]	
	85 1,2,3-trichlorobenzene	180	17.8[illegible]	17.836	(1.2[illegible])	[illegible]	12.5000	1[illegible]	
M	86 Xylene (total)	106				[illegible]42	37.5000	[illegible]	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A05.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	249011	-5.16
34 Chlorobenzene-d5	253541	126771	507082	237175	-6.45
56 1,4-Dichlorobenze	139834	69917	279668	130367	-6.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A05.D

Date : 13-DEC-2012 13:18

Client ID:

Instrument: Bundy.i

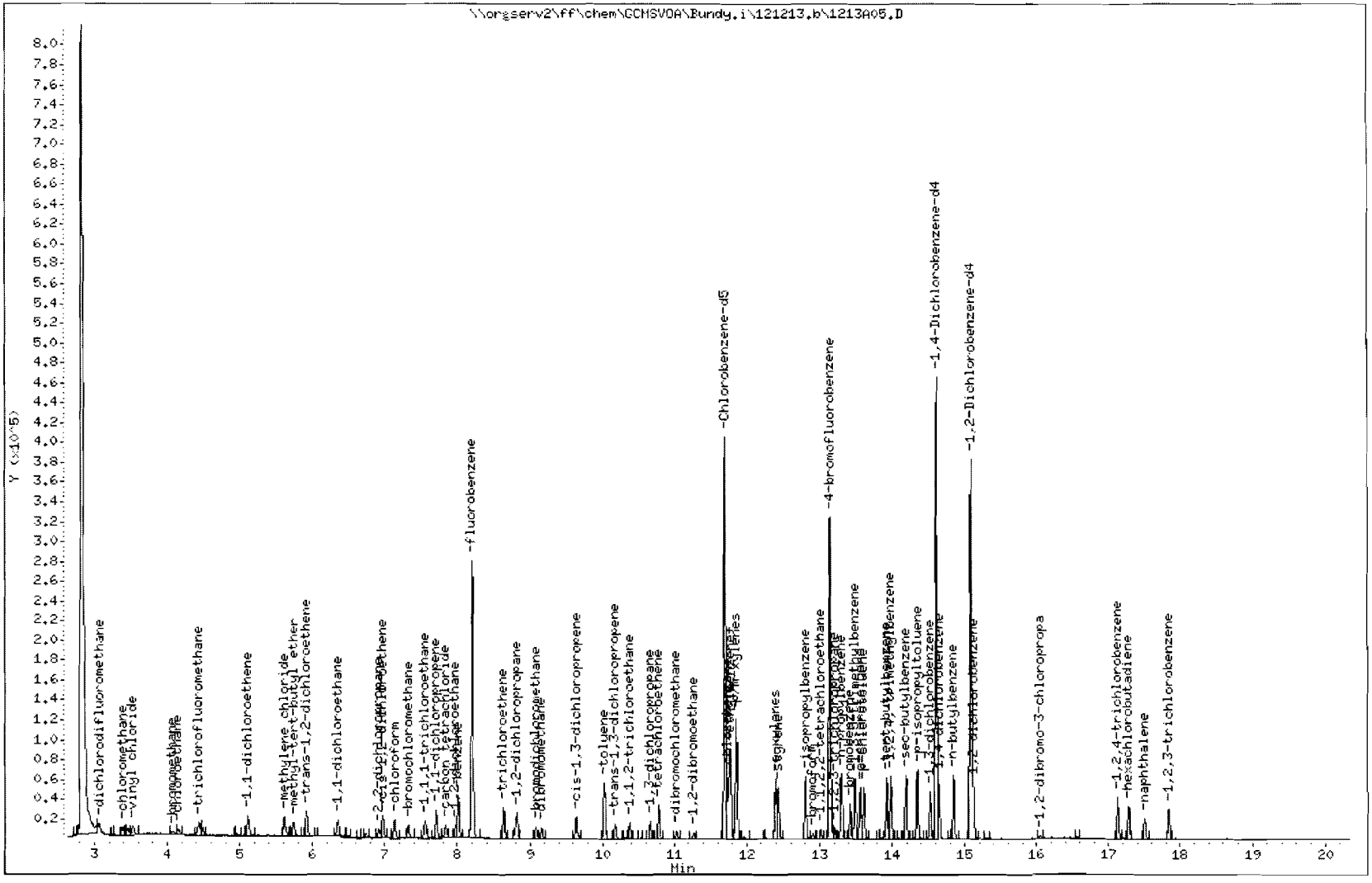
Sample Info: 524 LVL 1

Purge Volume: 25.0

Operator: kl

Column phase:

Column diameter: 0.18



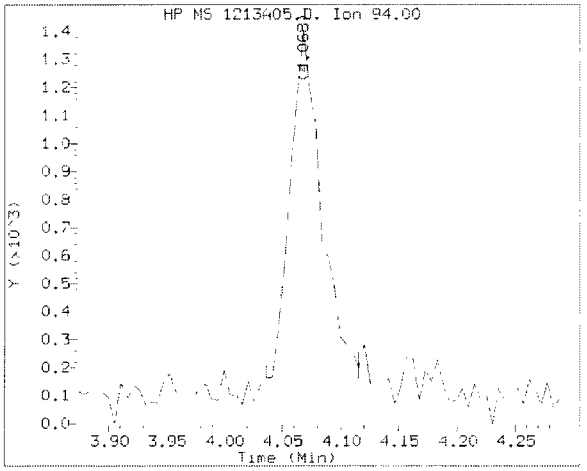
Alpha Analytical Labs

Manual Integration

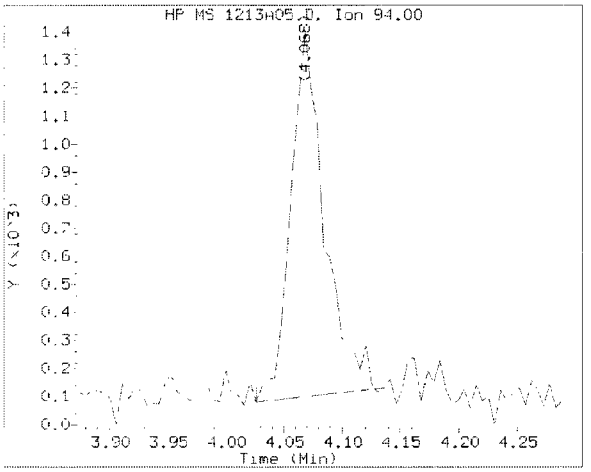
Sample Info : 524 LVL 1
wg,ical

Instrument ID : Bundy.i
Method : 524.m
File : 1213A05.D
Injection Date : 13-DEC-2012 13:18
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: CALIB_1

Compound # 4: bromomethane



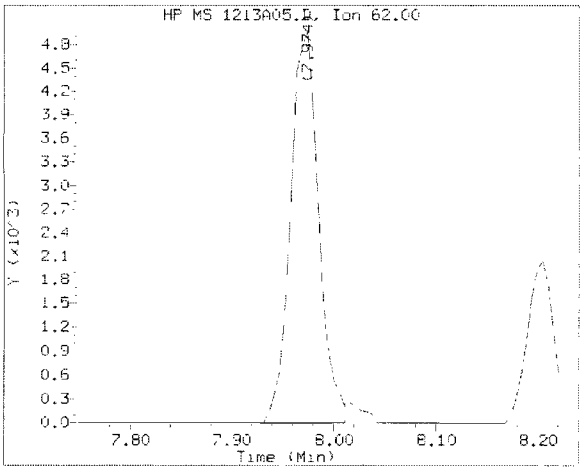
Original Peak Response = 2267



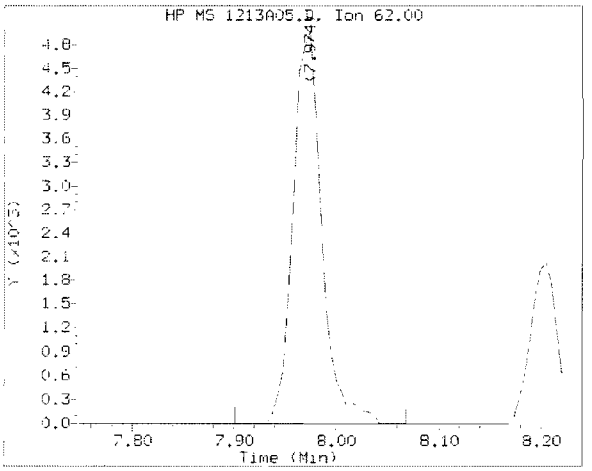
Manual Peak Response = 2632 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Compound # 19: 1,2-dichloroethane



Original Peak Response = 9454



Manual Peak Response = 9737 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Alpha Analytical Labs

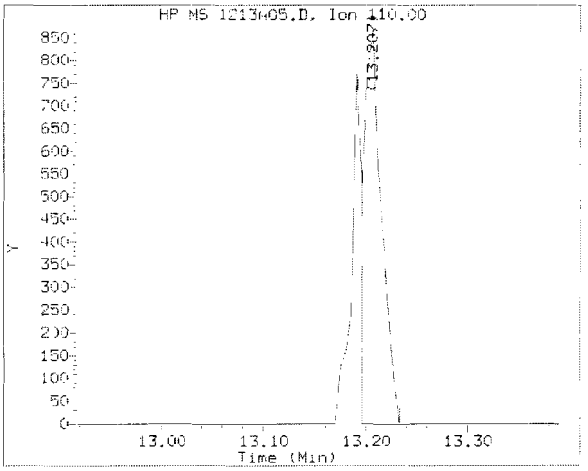
Manual Integration

Sample Info : 524 LVL 1

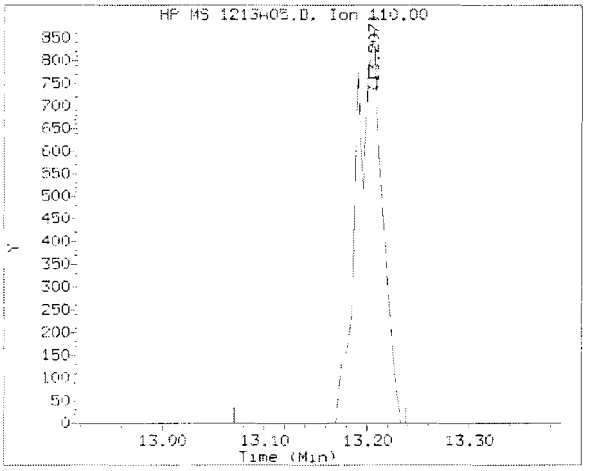
wg,ical

Instrument ID : Bundy.i
Method : 524.m
File : 1213A05.D
Injection Date : 13-DEC-2012 13:18
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: CALIB_1

Compound # 45: 1,2,3-trichloropropane



Original Peak Response = 1090



Manual Peak Response = 1498 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A04.D
Lab Smp Id:
Inj Date : 13-DEC-2012 11:45
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 2
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 17:03 Cal File: 1213A08.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIC MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW COLF
1 dichlorodifluoromethane	85	3.081	3.083	(0.573)	16326	20.0000	20.39(M)	M
2 chloromethane	50	3.361	3.361	(0.625)	19297	20.0000	22.34	
3 vinyl chloride	62	3.522	3.522	(0.655)	17784	20.0000	20.74(M)	M
4 bromomethane	94	4.309	4.085	(0.496)	4896	20.0000	17.24(M)	
5 chloroethane	64	4.151	4.151	(0.772)	10480	20.0000	21.62	
6 trichlorofluoromethane	101	4.440	4.440	(0.541)	20304	20.0000	20.63	
7 1,1-dichloroethene	96	5.116	5.116	(0.624)	12699	20.0000	21.06	
8 methylene chloride	84	5.609	5.609	(0.684)	15262	20.0000	21.19	
9 methyl-tert-butyl ether	73	5.740	5.740	(0.700)	16240	20.0000	21.74	
10 trans-1,2-dichloroethene	96	5.913	5.918	(0.721)	13037	20.0000	20.63	
11 1,1-dichloroethane	63	6.348	6.348	(0.774)	26149	20.0000	20.92	
12 2,2-dichloropropane	77	6.529	6.529	(0.543)	9766	20.0000	16.57	
13 cis-1,2-dichloroethene	96	6.977	6.977	(0.850)	11485	20.0000	20.91	
14 chloroform	83	7.135	7.135	(0.870)	21697	0.0000	20.19	
15 bromochloromethane	128	7.324	7.324	(0.893)	5178	20.0000	20.50	
16 1,1,1-trichloroethane	97	7.569	7.569	(0.923)	19196	20.0000	18.94	
17 1,1-dichloropropene	75	7.711	7.712	(0.940)	15994	20.0000	20.14	
18 carbon tetrachloride	117	7.837	7.837	(0.955)	15134	20.0000	16.45	
19 1,2-dichloroethane	62	7.968	7.968	(0.971)	14787	20.0000	21.15(M)	M
20 benzene	78	8.010	8.010	(0.976)	54934	20.0000	20.34	
* 21 fluorobenzene	96	8.204	8.204	(1.000)	247626	100.000		
22 trichloroethene	95	8.634	8.634	(1.052)	14293	0.0000	20.61	
23 1,2-dichloropropane	63	8.818	8.818	(1.075)	15116	20.0000	20.65	
24 bromodichloromethane	83	9.000	9.000	(1.097)	17152	20.0000	18.67	
25 dibromomethane	93	9.207	9.159	1.116)	9500	20.0000	20.54	
26 cis-1,3-dichloropropene	75	9.636	9.636	(1.174)	19869	0.0000	19.9	
27 toluene	91	10.024	10.024	(1.221)	38115	20.0000	21.13	
28 trans-1,3-dichloropropene	75	10.161	10.161	(1.241)	11497	20.0000	18.59	

							AMOUNTS		
		START SCA					CAL-AMT	ON-COL	
	Compound	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/l)	(ng/l)	REVIEW CODE
	8 1,1,1-trichloroethane	97	10.320	10.326	(1.263)	[illegible]	20.0000	21.41	
	9 1,2-dichloropropane	63	10.663	10.668	(1.305)	14496	20.0000	21.47	
	10 tetrachloroethene	166	10.734	10.734	(1.314)	16855	20.0000	20.69	
	12 dibromochloromethane	129	11.045	11.045	(1.352)	7512	20.0000	17.81	
	13 1,2-dibromoethane	107	11.071	11.072	(0.964)	7497	20.0000	20.33	
-	14 Chlorobenzene-d5	117	11.696	11.696	(1.000)	293984	150.000		
	15 Chlorobenzene	112	11.748	11.748	(1.004)	41051	20.0000	20.48	
	16 Ethylbenzene	91	11.770	11.770	(1.006)	57814	20.0000	20.70	
	17 1,1,1,2-tetrachloroethane	131	11.775	11.775	(1.007)	11730	20.0000	18.19	
	18 p/m-xylenes	106	11.894	11.894	(1.017)	59460	40.0000	40.46	
	19 o-xylenes	106	12.394	12.394	(1.060)	29584	20.0000	20.13	
	20 styrene	104	12.430	12.430	(1.063)	47115	20.0000	20.05	
	21 isopropylbenzene	105	12.801	12.802	(1.095)	59871	20.0000	20.73	
	22 bromoform	173	12.804	12.804	(1.095)	5892	20.0000	18.38	
	23 1,1,2,2-tetrachloroethane	83	13.017	13.017	(1.113)	7967	20.0000	19.82	
E	24 4-bromofluorobenzene	95	13.038	13.038	(1.115)	116832	150.000	161.36	
	25 1,2,3-trichloropropane	110	13.201	13.201	(1.129)	7161	20.0000	19.16	
	26 n-propylbenzene	91	13.295	13.295	(1.137)	67126	20.0000	20.96	
	27 bromobenzene	156	13.421	13.421	(1.147)	16158	20.0000	20.37	
	28 1,3,5-trimethylbenzene	105	13.484	13.484	(1.153)	66256	20.0000	19.99	
	29 2-chlorotoluene	126	13.557	13.557	(1.159)	47722	20.0000	21.42	
	30 p-isopropyltoluene	91	13.693	13.693	(1.171)	61469	20.0000	20.5	
	31 tert-butylbenzene	119	13.970	13.970	(1.195)	52360	20.0000	20.47	
	32 1,2,4,-trimethylbenzene	105	13.982	13.982	(1.196)	66838	20.0000	20.36	
	33 sec-butylbenzene	105	14.174	14.182	(1.213)	75143	20.0000	20.73	
	34 p-isopropyltoluene	119	14.349	14.349	(1.227)	66400	20.0000	20.21	
	35 1,3-dichlorobenzene	146	14.527	14.527	(1.243)	35089	20.0000	19.97	
*	36 1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	123351	150.000		
	37 1,4-dichlorobenzene	146	14.653	14.653	(1.003)	34023	20.0000	20.15	
	38 n-butylbenzene	91	14.853	14.853	(1.017)	54936	20.0000	19.68	
M	39 1,2-Dichlorobenzene-d4	152	15.068	15.068	(1.031)	114881	150.000	99.85	
	40 1,2-dichlorobenzene	146	15.120	15.120	(1.035)	29972	20.0000	20.60	
	41 1,2-d.bromo-3-chloropropane	75	16.043	16.043	(1.098)	4961	20.0000	17.42	
	42 1,2,4-trichlorobenzene	180	17.128	17.128	(1.172)	13460	20.0000	19.26	
	43 hexachlorobutadiene	225	17.230	17.230	(1.180)	12918	20.0000	19.36	
	44 naphthalene	128	17.576	17.576	(1.203)	28710	20.0000	19.08	
	45 1,2,3-trichlorobenzene	180	17.836	17.836	(1.221)	11667	20.0000	19.42	
M	46 Xylene (Total)	106				74258	60.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A04.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	247626	-5.69
34 Chlorobenzene-d5	253541	126771	507082	238389	-5.98
56 1,4-Dichlorobenze	139834	69917	279668	133334	-4.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A04.D
Date : 13-DEC-2012 11:45
Client ID:
Sample Info: 524 LVL 2
Purge Volume: 25.0
Column phase:
Instrument: Bundy.i
Operator: kl
Column diameter: 0.18
\\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A04.D
Y (x10^5)
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
-1,1-dichloroethene
-methylene chloride
-methyl-tert-butyl ether
-trans-1,2-dichloroethene
-1,1-dichloroethane
-2,2-dichloropropane
-cis-1,2-dichloroethene
-chloroform
-bromochloromethane
-1,1,1-trichloroethane
-1,1-dichloropropene
-carbon tetrachloride
-1,2-dichloroethane
-benzene
-fluorobenzene
-trichloroethene
-1,2-dichloropropane
-bromodichloromethane
-dibromomethane
-cis-1,3-dichloropropene
-toluene
-trans-1,3-dichloropropene
-1,1,2-trichloroethane
-1,3-dichloropropane
-tetrachloroethene
-dibromochloromethane
-1,2-dibromoethane
-Chlorobenzene-d5
-p/m-xylenes
-o-xylene
-isopropylbenzene
-bromoform
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
-1,2,3-trichloropropane
-n-propylbenzene
-bromobenzene
-2-chlorotoluene
-4-chlorotoluene
-tert-butylbenzene
-1,2,4-trimethylbenzene
-sec-butylbenzene
-p-isopropyltoluene
-1,3-dichlorobenzene
-1,4-Dichlorobenzene-d4
-1,4-dichlorobenzene
-n-butylbenzene
-1,2-dichlorobenzene
-1,2-Dichlorobenzene-d4
-1,2-dibromo-3-chloropropa
-1,2,4-trichlorobenzene
-hexachlorobutadiene
-naphthalene
-1,2,3-trichlorobenzene

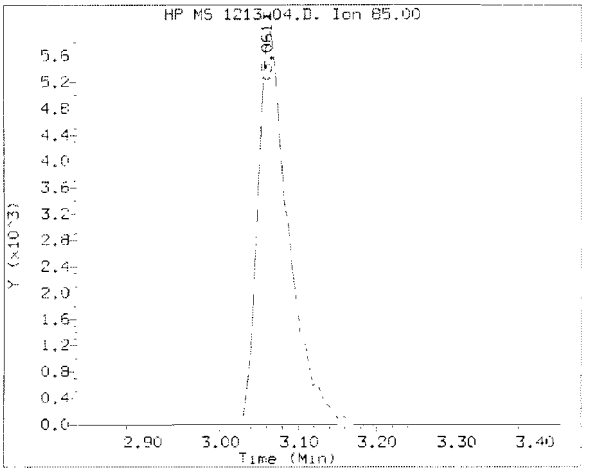
Alpha Analytical Labs

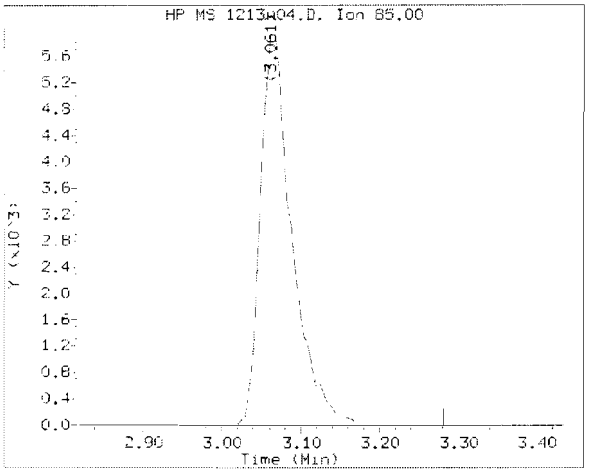
Manual Integration

Sample Info : 524 LVL 2
wg,ical

Instrument ID : Bundy.i
Method : 524.m
File : 1213A04.D
Injection Date : 13-DEC-2012 11:45
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: CALIB_2

Compound # 1: dichlorodifluoromethane

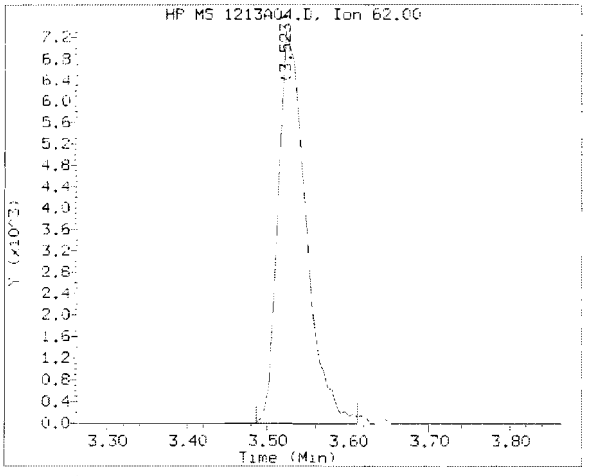


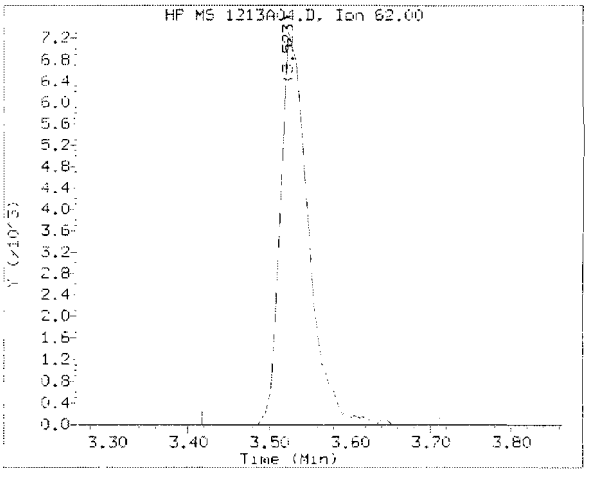


Original Peak Response = 16293 Manual Peak Response = 16398 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Compound # 3: vinyl chloride





Original Peak Response = 17567 Manual Peak Response = 17734 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

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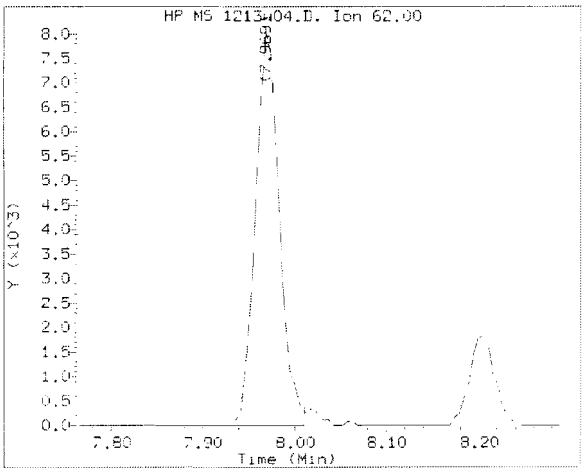
Manual Integration

Sample Info : 524 LVL 2

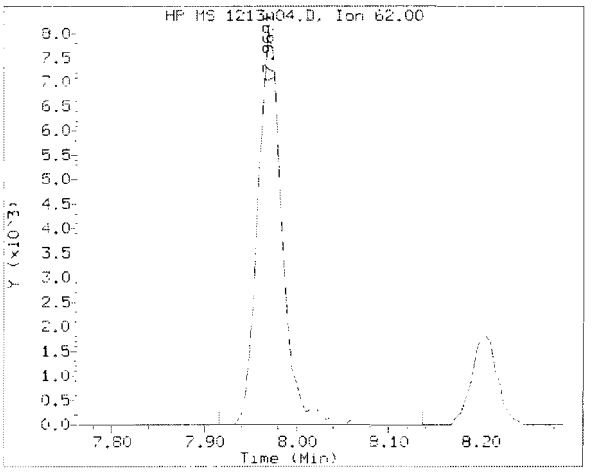
wg,ical

Instrument ID : Bundy.i
Method : 524.m
File : 1213A04.D
Injection Date : 13-DEC-2012 11:45
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: CALIB_2

Compound # 19: 1,2-dichloroethane



Original Peak Response = 14387



Manual Peak Response = 14787 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A06.D
Lab Smp Id:
Inj Date : 13-DEC-2012 15:52
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 3
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 13:18 Cal File: 1213A05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW CODE
1	dichlorodifluoromethane	85	2.056	2.056	(0.577)	26813	100.000	102.44 M	M1
2	chloromethane	50	2.376	2.376	(0.667)	29869	100.000	90.15	
3	vinyl chloride	62	2.502	2.502	(0.702)	34865	100.000	104.81	
4	bromomethane	94	4.061	4.062	(1.139)	15156	100.000	85.67 M	M1
5	chloroethane	64	4.146	4.146	(1.163)	33400	100.000	104.39	
6	trichlorofluoromethane	101	4.429	4.429	(1.242)	103655	100.000	103.71	
7	1,1-dichloroethene	96	5.106	5.106	(1.432)	84411	100.000	105.45	
8	methylene chloride	84	5.602	5.609	(1.572)	45021	100.000	103.09	
9	methyl-tert-butyl ether	73	5.730	5.730	(1.607)	108340	100.000	110.74	
10	trans-1,2-dichloroethene	96	5.902	5.902	(1.655)	79061	100.000	104.24	
11	1,1-dichloroethane	63	6.348	6.348	(1.780)	129285	100.000	102.09	
12	2,2-dichloropropane	77	6.540	6.541	(1.834)	99349	100.000	98.57	
13	cis-1,2-dichloroethene	96	6.987	6.992	(1.960)	75016	100.000	103.21	
14	chloroform	83	7.130	7.130	(2.000)	116285	100.000	102.09	
15	bromochloromethane	128	7.518	7.518	(2.109)	28756	100.000	107.48	
16	1,1,1-trichloroethane	97	7.554	7.554	(2.119)	105074	100.000	108.21	
17	1,1-dichloropropene	75	7.711	7.7	(2.163)	101552	100.000	104.11	
18	carbon tetrachloride	117	7.837	7.838	(2.198)	25176	100.000	101.48	
19	1,2-dichloroethane	62	7.962	7.968	(2.233)	79283	100.000	106.68	
20	benzene	78	8.110	8.110	(2.274)	282104	100.000	101.07	
* 21	fluorobenzene	96	8.304	8.311	1.000	242284	100.000		
22	trichloroethene	95	8.654	8.654	(1.042)	73203	100.000	105.65	
23	1,2-dichloropropane	63	8.810	8.819	(1.061)	71080	100.000	105.18	
24	dibromochloromethane	129	9.000	9.000	(1.083)	74025	100.000	103.45	
25	dibromomethane	93	9.104	9.104	(1.096)	36954	100.000	104.76	
26	cis-1,3-dichloropropene	75	9.636	9.636	(1.160)	92676	100.000	104.24	
27	toluene	91	10.024	10.024	(1.207)	185150	100.000	102.56	
28	trans-1,3-dichloropropene	75	10.176	10.176	(1.225)	77476	100.000	104.04	

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	QM-COL	REVIEW COLF
	38 1,1,2-trichloroethane	83	10.836	10.836	(1.000)	56475	100.000	100.78	
	39 1,3-dichloropropane	76	10.662	10.663	(1.300)	76151	100.000	100.51	
	40 tetrachloroethene	164	10.779	10.779	(1.314)	45156	100.000	104.55	
	42 dibromochloromethane	129	11.040	11.040	(1.344)	47512	100.000	105.41	
	43 1,2-dibromoethane	107	11.196	11.196	(0.986)	43951	100.000	104.04	
*	44 Chlorobenzene-d5	117	11.496	11.496	(1.000)	220262	250.000		
	45 chlorobenzene	112	11.748	11.748	(1.000)	217419	100.000	99.81	
	46 ethylbenzene	91	11.778	11.778	(1.000)	57756	100.000	100.21	
	47 1,1,1,2-tetrachloroethane	131	11.778	11.778	(1.000)	44521	100.000	101.14	
	48 p/m-xylenes	106	11.853	11.853	(1.013)	204114	200.000	102.14	
	49 o-xylenes	106	12.294	12.294	(1.000)	141047	100.000	102.40	
	50 styrene	104	12.420	12.420	(1.000)	250294	100.000	103.36	
	51 isopropylbenzene	105	12.582	12.582	(1.000)	39 600	100.000	101.67	
	52 bromoform	173	12.801	12.802	(1.018)	20115	100.000	105.00	
	53 1,1,2,2-tetrachloroethane	83	13.017	13.017	(1.153)	44107	100.000	104.39	
S	54 4-bromofluorobenzene	95	13.143	13.143	(1.124)	1 2965	100.000	100.99	
	55 1,2,3-trichloropropane	110	13.221	13.221	(1.128)	21483	100.000	100.51	
	56 n-propylbenzene	91	13.395	13.395	(1.000)	444283	100.000	101.47	
	57 bromobenzene	156	13.421	13.421	(1.047)	35426	100.000	102.25	
	58 1,3,5-trimethylbenzene	105	13.484	13.484	(1.113)	272115	100.000	101.09	
	59 2-chlorotoluene	126	13.557	13.557	(1.159)	90147	100.000	102.46	
	60 p-chlorotoluene	91	13.606	13.606	(1.163)	96 89	100.000	101.20	
	61 tert-butylbenzene	119	13.920	13.920	(1.219)	274144	100.000	100.11	
	62 1,2,4-trimethylbenzene	105	13.980	13.980	(1.195)	307477	100.000	100.89	
	63 sec-butylbenzene	105	14.175	14.192	(1.213)	401 75	100.000	101.20	
	64 p-isopropyltoluene	119	14.349	14.341	(1.227)	347902	100.000	100.27	
	65 1,3-dichlorobenzene	146	14.527	14.527	(0.994)	179215	100.000	100.15	
*	66 1,4-dichlorobenzene-d4	152	14.611	14.611	(1.000)	199854	150.000		
	67 1,4-dichlorobenzene	146	14.655	14.657	(1.003)	172471	100.000	100.89	
	68 n-butylbenzene	91	14.858	14.859	(1.017)	358 30	100.000	100.94	
J	69 1,2-dichlorobenzene-d4	152	15.060	15.060	(1.000)	11 7956	100.000	101.50	
	70 1,2-dichlorobenzene	146	15.120	15.120	(1.035)	145618	100.000	100.77	
	71 1,2-dibromo-3-chloropropane	75	16.045	16.047	(1.097)	6503	100.000	105.31	
	72 1,2,4-trichlorobenzene	180	17.128	17.128	(1.172)	116420	100.000	101.44	
	73 hexachlorobutadiene	225	17.230	17.230	(1.180)	74 92	100.000	103.63	
	74 naphthalene	128	17.500	17.500	(1.198)	173 61	100.000	106.30	
	75 1,2,3-trichlorobenzene	180	17.662	17.626	(1.210)	90164	100.000	104.06	
M	76 Xylene (total)	106				405 91	300.000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A06.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

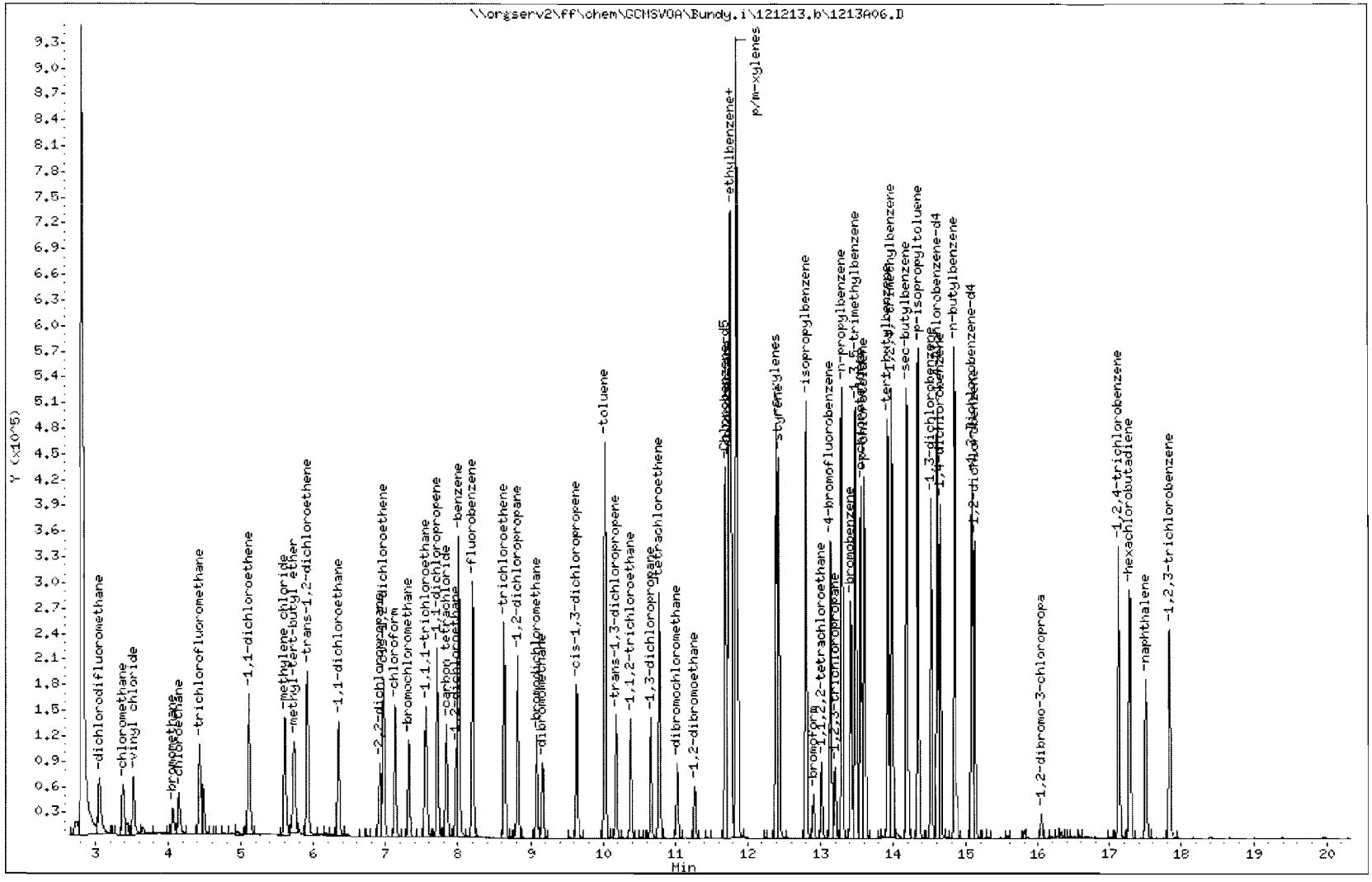
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	262564	0.00
34 Chlorobenzene-d5	253541	126771	507082	253541	0.00
56 1,4-Dichlorobenze	139834	69917	279668	139834	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A06.D
Date : 13-DEC-2012 15:52
Client ID:
Sample Info: 524 LVL 3
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



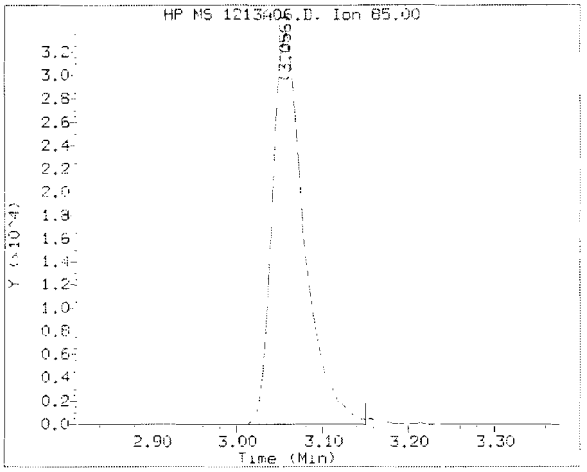
Alpha Analytical Labs

Manual Integration

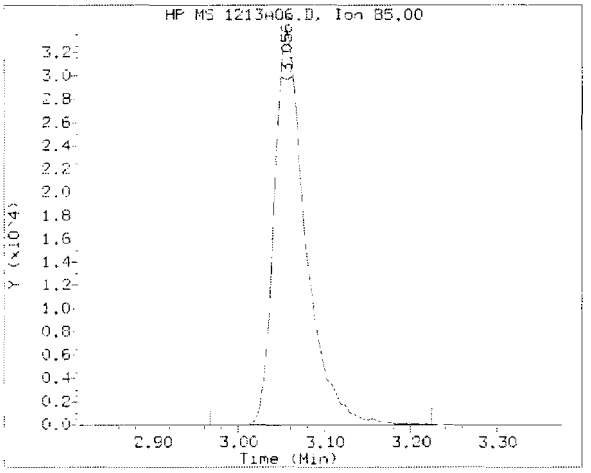
Sample Info : 524 LVL 3
wg,ical

Instrument ID : Bundy.i
Method : 524.m
File : 1213A06.D
Injection Date : 13-DEC-2012 15:52
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: CALIB_3

Compound # 1: dichlorodifluoromethane



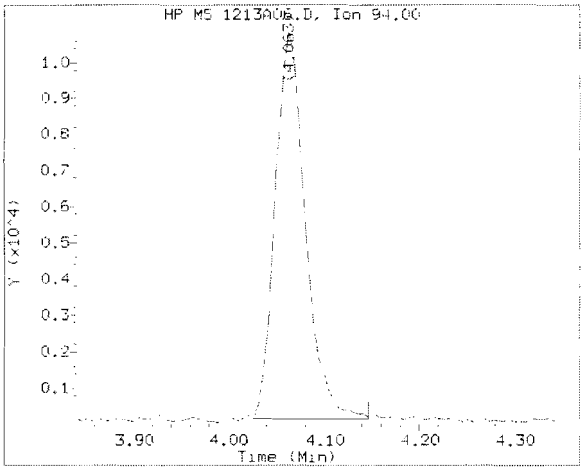
Original Peak Response = 86067



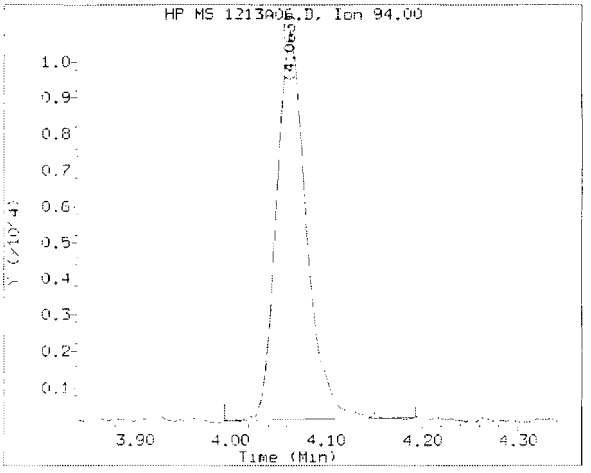
Manual Peak Response = 86813 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Compound # 4: bromomethane



Original Peak Response = 23071



Manual Peak Response = 23156 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A07.D
Lab Smp Id:
Inj Date : 13-DEC-2012 16:28
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 4
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 15:52 Cal File: 1213A06.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ng)	PREVIEW COLF
1 dichlorodifluoromethane	85	3.816	3.816	(0.841)	341736	100.00	205.39	
2 chloromethane	50	3.991	3.991	(0.879)	462705	98.600	191.13	
3 vinyl chloride	62	3.542	3.537	(0.780)	370668	100.000	209.57	
4 bromomethane	94	4.061	4.061	(0.895)	30194	230.000	203.64	
5 chloroethane	64	4.146	4.146	(0.914)	84676	100.000	197.49	
6 trichlorofluoromethane	101	4.474	4.464	(0.985)	281775	100.000	201.01	
7 1,1-dichloroethene	96	5.111	5.111	(1.126)	230963	100.000	197.65	
8 methylene chloride	84	5.669	5.669	(1.249)	114615	200.000	193.92	
9 methyl-tert-butyl ether	73	5.735	5.735	(1.264)	214944	200.000	195.12	
10 trans-1,2-dichloroethene	96	5.818	5.818	(1.282)	234765	100.000	197.70	
11 1,1-dichloroethane	63	6.348	6.348	(1.399)	261745	100.000	196.69	
12 2,2-dichloropropane	77	6.470	6.470	(1.426)	195736	200.000	207.37	
13 cis-1,2-dichloroethene	96	6.972	6.972	(1.536)	232150	200.000	194.52	
14 chloroform	83	7.135	7.135	(1.572)	311442	100.000	194.58	
15 bromochloromethane	128	7.323	7.323	(1.613)	51375	100.000	198.47	
16 1,1,1-trichloroethane	97	7.554	7.554	(1.664)	196577	100.000	196.30	
17 1,1-dichloropropene	75	7.711	7.711	(1.699)	201152	200.000	195.62	
18 carbon tetrachloride	117	7.842	7.842	(1.728)	161197	200.000	204.85	
19 1,2-dichloroethane	62	7.968	7.968	(1.756)	142502	100.000	199.17	
20 benzene	78	8.010	8.010	(1.765)	550751	100.000	194.34	
* 21 fluorobenzene	96	8.236	8.236	(1.000)	767163	100.000		
22 trichloroethene	130	8.634	8.634	(1.048)	184491	100.000	199.80	
23 1,2-dichloropropane	63	8.818	8.818	(1.070)	134894	100.000	199.47	
24 bromodichloromethane	83	8.980	8.980	(1.090)	181768	200.000	203.75	
25 dibromomethane	93	9.164	9.164	(1.112)	98714	200.000	201.34	
26 cis-1,3-dichloropropene	75	9.636	9.636	(1.170)	144431	100.000	203.87	
27 toluene	91	10.024	10.024	(1.217)	760117	100.000	199.20	
28 trans-1,3-dichloropropene	75	10.176	10.176	(1.235)	181259	200.000	201.02	

							AMOUNTS		
		JOINT S.P.					CAL-AMT	ON-COL	
	Compounds	MS#'S	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	8 1,1,2-trichlorotrifluoroethane	83	10.350	10.350	(1.265)	61512	200.000	200.77	
	10 1,3-dichloropropane	76	10.669	10.669	(1.305)	156156	200.000	197.18	
	11 tetrachloroethene	164	10.779	10.779	(1.318)	78540	200.000	198.38	
	12 dibromochloromethane	129	11.015	11.015	(1.346)	90264	200.000	207.46	
	13 1,2-dibromoethane	187	11.141	11.171	(0.266)	54279	200.000	205.55	
*	14 Chlorobenzene-d5	117	11.696	11.696	(1.000)	275877	150.000		
	15 chlorobenzene	112	11.742	11.743	(1.004)	401105	200.000	212.11	
	16 ethylbenzene	91	11.769	11.769	(1.006)	676002	200.000	200.82	
	17 1,1,1,2-tetrachloroethane	131	11.769	11.769	(1.006)	103835	200.000	204.94	
	18 p/m-xylenes	106	11.893	11.953	(1.021)	523702	400.000	400.56	
	19 o-xylenes	106	12.393	12.393	(1.060)	256809	200.000	200.35	
	20 styrene	104	12.430	12.430	(1.063)	4[illegible]	200.000	203.80	
	21 isopropylbenzene	105	12.707	12.802	(1.095)	882984	200.000	201.39	
	22 bromoform	173	12.902	12.902	(1.103)	44206	200.000	205.06	
	23 1,1,2,2-tetrachloroethane	83	13.017	13.017	(1.113)	82885	200.000	208.35	
S	24 4-bromofluorobenzene	95	13.138	13.138	(1.123)	113092	100.000	98.74	
	25 1,2,3-trichloropropane	110	13.201	13.201	(1.129)	76614	200.000	206.04	
	26 n-propylbenzene	91	13.295	13.295	(1.137)	831894	98.000	100.71	
	27 bromobenzene	156	13.421	13.421	(1.147)	157551	200.000	202.70	
	28 1,3,5-trimethylbenzene	105	13.484	13.484	(1.153)	806410	200.000	201.20	
	29 2-chlorotoluene	126	13.543	13.543	(1.158)	106061	200.000	200.47	
	30 p-chlorotoluene	91	13.601	13.601	(1.163)	4974.4	200.000	199.26	
	31 tert-butylbenzene	119	13.930	13.930	(1.191)	537785	200.000	199.28	
	32 1,2,4-trimethylbenzene	105	13.989	13.989	(1.196)	771[illegible]	200.000	200.45	
	33 sec-butylbenzene	105	14.171	14.192	(1.213)	754061	200.000	200.17	
	34 p-isopropyltoluene	119	14.249	14.249	(1.219)	615[illegible]	200.000	201.61	
	35 1,3-dichlorobenzene	146	14.527	14.527	(1.242)	329851	200.000	201.50	
*	36 1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	324009	150.000		
	37 1,4-dichlorobenzene	146	14.655	14.655	(1.003)	313025	200.000	198.64	
	38 n-butylbenzene	91	14.851	14.851	(1.017)	767921	200.000	200.74	
J	39 1,2-dichlorobenzene-d4	152	15.093	15.093	(1.033)	107850	100.000	100.13	
	40 1,2-dichlorobenzene	146	15.120	15.120	(1.035)	274652	200.000	201.49	
	41 1,2-dibromo-3-chloropropane	75	16.045	16.045	(1.099)	11614	200.000	203.97	
	42 1,2,4-trichlorobenzene	180	17.176	17.176	(1.176)	214486	200.000	204.07	
	43 hexachlorobutadiene	225	17.230	17.230	(1.180)	123501	200.000	200.21	
	44 naphthalene	128	17.540	17.540	(1.201)	704714	200.000	203.34	
	45 1,2,3-trichlorobenzene	180	17.636	17.636	(1.207)	173476	200.000	201.60	
M	46 Xylenes (total)	106				780006	600.000		(a)

QC Flag Legend

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

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A07.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	253463	-3.47
34 Chlorobenzene-d5	253541	126771	507082	235877	-6.97
56 1,4-Dichlorobenze	139834	69917	279668	128205	-8.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A07.D

Page 4

Date : 13-DEC-2012 16:28

Client ID:

Instrument: Bundy.i

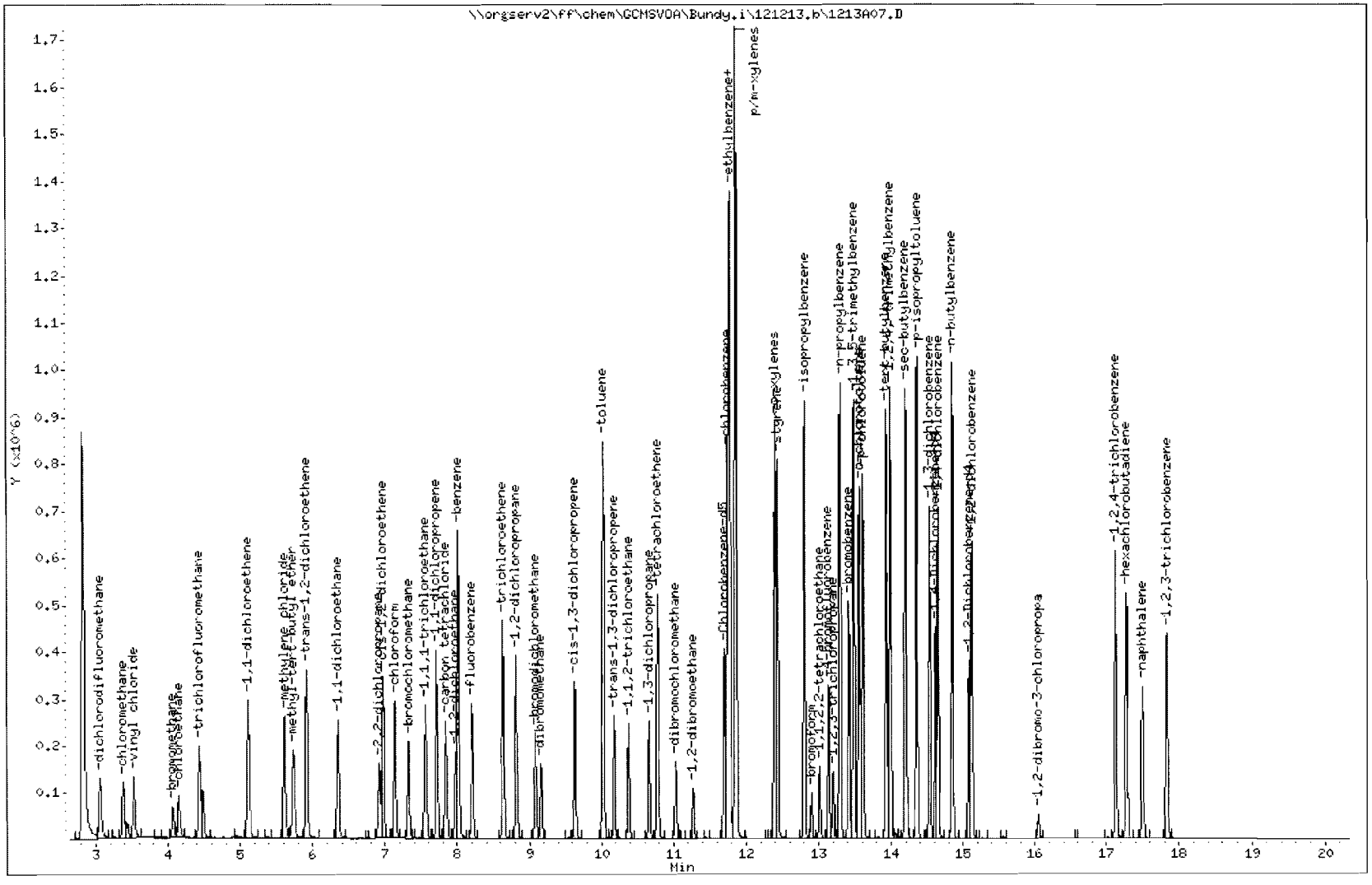
Sample Info: 524 LVL 4

Purge Volume: 25.0

Operator: kl

Column phase:

Column diameter: 0.18



Alpha Analytical Labs

Manual Integration

Sample Info	: 524 LVL 4 wg,ical		
Instrument ID	: Bundy.i		
Method	: 524.m		
File	: 1213A07.D		
Injection Date	: 13-DEC-2012 16:28		
Quantitation	: ISTD	Integrator : HP RTE	
Dilution Factor	: 1.00	Sample Type: CALIB_4	

There are no manual integrations in this file.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A08.D
Lab Smp Id:
Inj Date : 13-DEC-2012 17:03
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 5
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 16:28 Cal File: 1213A07.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	CN-COL (ug/L)	REVIEW CODE
1 dichlorodifluoromethane	85	2.061	0.461	0.3[illegible]	400.000	369.77(M)	M
2 chloromethane	50	3.351	0.751	0.41[illegible]	241445	400.000	364.85
3 vinyl chloride	62	3.527	0.790	0.42[illegible]	2[illegible]	400.000	299.32
4 bromomethane	94	4.062	0.910	0.495	75[illegible]	400.000	281.70
5 chloroethane	64	4.146	0.929	0.[illegible]	1[illegible]	400.000	276.46
6 trichlorofluoromethane	101	4.430	0.993	0.541	203401	400.000	271.50
7 1,1-dichloroethene	96	5.111	1.145	0.625	173443	400.000	273.70
8 methylene chloride	84	5.609	1.257	0.[illegible]	1[illegible]	400.000	261.17
9 methyl-tert-butyl ether	73	5.730	1.284	0.[illegible]	[illegible]	400.000	268.22
10 trans-1,2-dichloroethene	96	5.917	5.918	0.721	182765	400.000	277.45
11 1,1-dichloroethane	63	6.554	6.342	0.799	27[illegible]	400.000	270.[illegible]
12 2,2-dichloropropane	77	6.710	6.710	0.[illegible]	1[illegible]	400.000	277.27
13 cis-1,2-dichloroethene	96	6.971	6.972	0.85[illegible]	[illegible]	400.000	277.01
14 chloroform	83	7.136	7.136	0.870	312[illegible]	400.000	[illegible]
15 bromochloromethane	128	7.523	7.523	0.[illegible]	[illegible]	400.000	269.[illegible]
16 1,1,1-trichloroethane	97	7.654	7.654	0.[illegible]	2[illegible]	400.000	2[illegible].45
17 1,1-dichloropropene	75	7.711	7.711	0.940	2[illegible]	400.000	274.39
18 carbon tetrachloride	117	7.838	7.838	0.[illegible]	[illegible]	400.000	284.[illegible]
19 1,2-dichloroethane	62	7.962	7.962	0.971	1[illegible]	400.000	268.81
20 benzene	78	8.000	8.000	0.976	[illegible]	400.000	277.84
21 fluorobenzene	96	8.204	8.204	1.000	2[illegible]	400.000	
22 trichloroethene	95	8.634	8.634	1.053	[illegible]	400.000	276.[illegible]
23 1,2-dichloropropane	63	8.918	8.918	1.088	212[illegible]	400.000	275.67
24 bromodichloromethane	83	9.[illegible]	9.065	1.105	[illegible]	400.000	281.30
25 dibromomethane	93	9.169	9.169	1.118	78[illegible]	400.000	280.02
26 cis-1,3-dichloropropene	75	9.[illegible]	9.[illegible]	1.174	[illegible]	400.000	279.21
27 toluene	91	10.024	10.024	1.222	525[illegible]	400.000	276.39
28 trans-1,3-dichloropropene	75	10.176	10.176	1.240	[illegible]	400.000	280.00

								AMOUNTS		
		QUANT SIG						CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE		(ug/L)	(ug/L)	REVIEW CODE
	9 1,1,2-trichloroethane	83	10.320	10.556	(1.268)	9%		300.000	165.20	
	37 1,2-dichloropropane	63	10.668	10.668	(1.300)	1		300.000	163.41	
	51 tetrachloroethene	166	10.794	10.794	(1.314)	2		300.000	174.24	
	32 dibromochloromethane	129	11.046	11.038	(1.344)	1		300.000	175.63	
	33 1,2-dibromoethane	107	11.091	11.073	(0.864)	1		300.000	179.95	
*	34 Chlorobenzene-d5	117	11.696	11.696	(1.000)	2		150.000		
	35 chlorobenzene	112	11.748	11.748	(1.004)	3		300.000	159.45	
	36 ethylbenzene	91	11.772	11.772	(1.006)	1		300.000	169.60	
	37 1,1,1,2-tetrachloroethane	131	11.790	11.790	(1.008)	1		300.000	179.56	
	38 p/m-xylenes	106	11.958	11.958	(1.022)	3		600.000	351.51	
	39 o-xylenes	106	12.384	12.384	(1.060)	1		300.000	190.91	
	43 styrene	104	12.420	12.420	(1.062)	1		300.000	188.79	
	41 isopropylbenzene	105	12.882	12.882	(1.102)	1		300.000	199.10	
	42 bromoform	173	12.909	12.909	(1.103)	4		300.000	179.36	
	45 1,1,2,2-tetrachloroethane	83	13.017	13.017	(1.113)	1		300.000	197.37	
$	44 4-bromofluorobenzene	95	13.134	13.130	(1.123)	1		300.000	190.06	
	45 1,2,3-trichloropropane	110	13.221	13.221	(1.130)	1		300.000	176.62	
	46 n-propylbenzene	91	13.386	13.386	(1.144)	1		300.000	200.44	
	47 bromobenzene	156	13.416	13.416	(1.147)	2		300.000	154.34	
	48 1,3,5-trimethylbenzene	105	13.464	13.464	(1.151)	9		300.000	200.75	
	49 2-chlorotoluene	126	13.503	13.503	(1.160)	1		300.000	204.51	
	50 p-chlorotoluene	1	13.610	13.610	(1.164)	1		300.000	208.01	
	51 tert-butylbenzene	119	13.980	13.980	(1.195)	7		300.000	198.55	
	52 1,2,4-trimethylbenzene	105	13.998	13.998	(1.197)	9		300.000	200.85	
	53 sec-butylbenzene	105	14.161	14.182	(1.213)	1		300.000	207.69	
	54 p-isopropyltoluene	119	14.349	14.349	(1.227)	1		300.000	206.83	
	55 1,3-dichlorobenzene	146	14.527	14.527	(0.954)	4		300.000	191.89	
*	56 1,4-dichlorobenzene-d4	152	14.611	14.611	(1.000)	2		150.000		
	57 1,4-dichlorobenzene	146	14.655	14.655	(1.003)	4		300.000	208.22	
	58 n-butylbenzene	91	14.852	14.852	(1.017)	2		300.000	205.72	
d	59 1,2-dichlorobenzene-d4	152	15.009	15.009	(1.027)	1		150.000	99.87	
	61 1,2-dichlorobenzene	146	15.120	15.120	(1.035)	3		300.000	204.97	
	62 1,2-dibromo-3-chloropropane	75	16.348	16.046	(1.098)	1		300.000	279.24	
	63 1,2,4-trichlorobenzene	180	17.125	17.125	(1.172)	2		300.000	203.63	
	65 hexachlorobutadiene	225	17.250	17.230	(1.180)	1		300.000	192.31	
	66 naphthalene	128	17.500	17.500	(1.198)	4		300.000	252.58	
	67 1,2,3-trichlorobenzene	180	17.636	17.636	(1.207)	2		300.000	200.91	
M	68 Xylene (total)	106				1		900.000		a

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A08.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

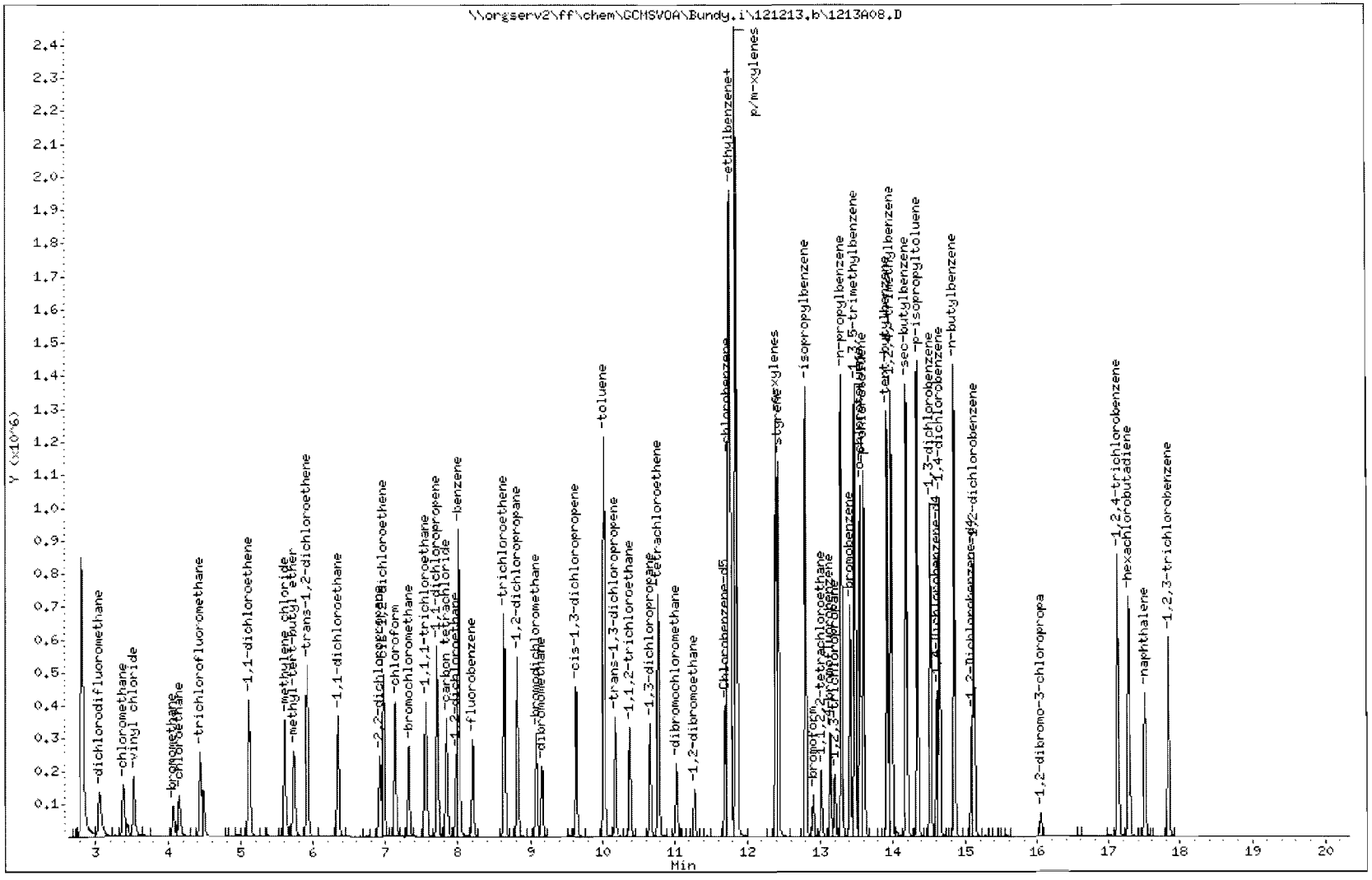
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	260285	-0.87
34 Chlorobenzene-d5	253541	126771	507082	233484	-7.91
56 1,4-Dichlorobenze	139834	69917	279668	125306	-10.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A08.D
Date : 13-DEC-2012 17:03
Client ID:
Sample Info: 524 LVL 5
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



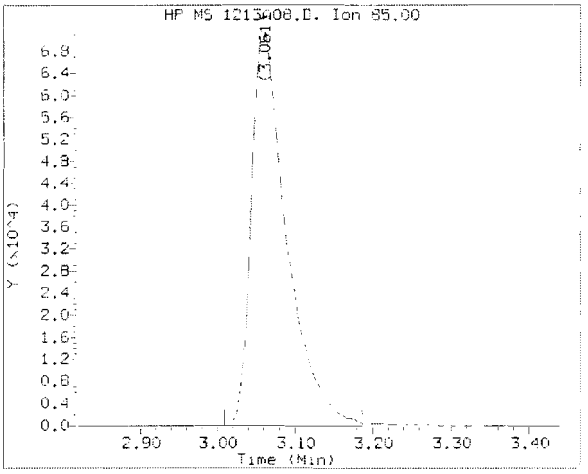
Alpha Analytical Labs

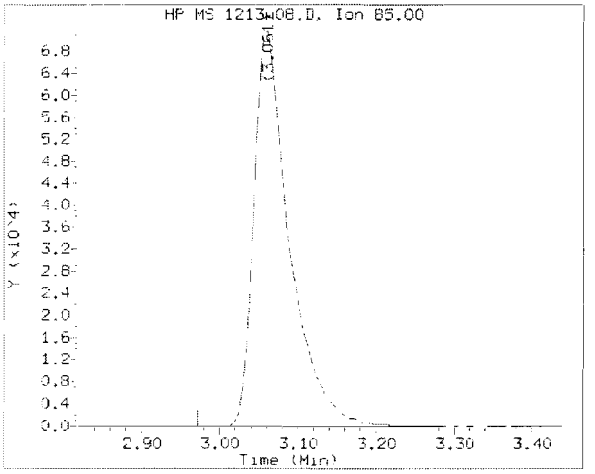
Manual Integration

Sample Info : 524 LVL 5
wg,ical

Instrument ID : Bundy.i
Method : 524.m
File : 1213A08.D
Injection Date : 13-DEC-2012 17:03
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: CALIB_5

Compound # 1: dichlorodifluoromethane





Original Peak Response = 223825 Manual Peak Response = 225156 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A09.D
Lab Smp Id:
Inj Date : 13-DEC-2012 17:38
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 6
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 17:03 Cal File: 1213A08.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT S.G. MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW CODE
1	dichlorodifluoromethane	85	3.016	3.016	(0.677)	40689	500.000	575.29	
2	chloromethane	50	3.376	3.376	(0.611)	41419	500.000	492.07	
3	vinyl chloride	62	3.517	3.517	(0.636)	4 5063	500.000	578.79	
4	bromomethane	94	4.069	4.069	(0.498)	26413	500.000	593.42	
5	chloroethane	64	4.146	4.146	(0.750)	24163	500.000	500.29	
6	trichlorofluoromethane	101	4.435	4.435	(0.541)	48869	500.000	524.44	
7	1,1-dichloroethene	96	5.111	5.111	(0.625)	28713	500.000	500.15	
8	methylene chloride	84	5.409	5.409	(0.664)	30893	500.000	494.21	
9	methyl-tert-butyl ether	73	5.730	5.730	(0.699)	56 [illegible]	500.000	520.8	
10	trans-1,2-dichloroethene	96	5.919	5.919	(0.722)	32 [illegible]	500.000	515.11	
11	1,1-dichloroethane	63	6.348	6.348	(0.775)	64451	500.000	507.48	
12	2,2-dichloropropane	77	6.570	6.570	(0.802)	55874	500.000	540.77	
13	cis-1,2-dichloroethene	96	6.632	6.632	(0.810)	34 [illegible]	500.000	511.26	
14	chloroform	83	7.135	7.135	(0.870)	54 [illegible]	500.000	504.76	
15	bromochloromethane	128	7.324	7.324	(0.894)	19 [illegible]	500.000	506.01	
16	1,1,1-trichloroethane	97	7.560	7.560	(0.923)	49 [illegible]	500.000	531.45	
17	1,1-dichloropropene	75	7.711	7.712	(0.941)	41 [illegible]	500.000	511.49	
18	carbon tetrachloride	117	7.837	7.837	(0.956)	45 [illegible]	500.000	554.20	
19	1,2-dichloroethane	62	7.969	7.969	(0.972)	35 [illegible]	500.000	520.68	
20	benzene	78	8.010	8.010	(0.977)	1 [illegible]	500.000	514.35	
* 21	fluorobenzene	96	8.304	8.304	(1.000)	54 [illegible]	100.000		
22	trichloroethene	130	8.654	8.654	(1.042)	29 [illegible]	500.000	511.14	
23	1,2-dichloropropane	63	8.818	8.818	(1.062)	32 [illegible]	500.000	525.48	
24	bromodichloromethane	83	9.005	9.005	(1.084)	4 [illegible]	500.000	510.74	
25	dibromomethane	93	9.164	9.164	(1.103)	15 [illegible]	500.000	536.53	
26	cis-1,3-dichloropropene	75	9.636	9.636	(1.160)	38 [illegible]	500.000	542.59	
27	toluene	91	10.024	10.024	(1.207)	70 [illegible]	500.000	511.61	
28	trans-1,3-dichloropropene	75	10.176	10.176	(1.225)	45 [illegible]	500.000	542.94	

			START SIZ					AMOUNTS		
		Compounds	MASS	RT	EXP RT	LIB RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW CODE
	8	1,1,2-trichloroethane	83	10.380	10.380	(1.000)	142744	500.000	531.40	
	30	1,3-dichloropropane	76	10.661	10.663	(1.000)	241757	500.000	501.53	
	31	tetrachloroethene	166	10.784	10.784	(1.000)	247405	500.000	504.08	
	32	dibromochloromethane	129	11.030	11.030	(1.000)	91697	500.000	578.53	
	33	1,2-dibromoethane	107	11.171	11.172	(0.999)	155437	500.000	531.43	
*	34	Chlorobenzene-d5	117	11.606	11.606	(1.000)	227011	150.000		
	35	chlorobenzene	112	11.744	11.744	(1.000)	948287	500.000	505.39	
	36	ethylbenzene	91	11.770	11.770	(1.000)	1079284	500.000	501.23	
	37	1,1,1,2-tetrachloroethane	131	11.775	11.775	(1.000)	305977	500.000	530.07	
	38	p/m-xylenes	106	11.959	11.961	(1.000)	3274776	1000.00	1013.11	
	39	o-xylene	106	12.394	12.394	(1.000)	1264015	500.000	508.77	
	40	styrene	104	12.430	12.430	(1.000)	1636624	500.000	513.94	
	41	isopropylbenzene	105	12.605	12.607	(1.000)	1684241	500.000	509.75	
	42	bromoform	173	12.802	12.802	(1.000)	126348	500.000	578.85	
	43	1,1,2,2-tetrachloroethane	83	13.012	13.012	(1.000)	203182	500.000	522.15	
S	44	4-bromofluorobenzene	95	13.128	13.130	(1.000)	130075	100.000	100.15	
	45	1,2,3-trichloropropane	110	13.201	13.201	(1.000)	87367	500.000	520.03	
	46	n-propylbenzene	91	13.291	13.293	(1.000)	1946301	500.000	505.19	
	47	bromobenzene	156	13.421	13.421	(1.000)	1074315	500.000	518.78	
	48	1,3,5-trimethylbenzene	105	13.484	13.484	(1.000)	1566553	500.000	506.82	
	49	2-chlorotoluene	126	13.563	13.563	(1.000)	1005503	500.000	491.51	
	50	p-chlorotoluene	91	13.610	13.610	(1.000)	1280905	500.000	508.27	
	51	tert-butylbenzene	119	13.930	13.930	(1.000)	1232.11	500.000	506.48	
	52	1,2,4-trimethylbenzene	105	13.989	13.989	(1.000)	1708345	500.000	504.42	
	53	sec-butylbenzene	105	14.107	14.109	(1.000)	2281797	500.000	504.06	
	54	p-isopropyltoluene	119	14.249	14.249	(1.000)	1951816	500.000	506.10	
	55	1,3-dichlorobenzene	146	14.527	14.528	(1.000)	770687	500.000	503.71	
*	56	1,4-dichlorobenzene-d4	151	14.611	14.611	(1.000)	124618	150.000		
	57	1,4-dichlorobenzene	146	14.655	14.653	(1.000)	773719	500.000	505.15	
	58	n-butylbenzene	91	14.855	14.853	(1.000)	1419844	500.000	507.16	
S	59	1,2-dichlorobenzene-d4	152	15.059	15.059	(1.000)	104363	100.000	99.80	
	60	1,2-dichlorobenzene	146	15.120	15.120	(1.000)	673651	500.000	504.45	
	61	1,2-dibromo-3-chloropropane	75	16.049	16.049	(1.000)	59075	500.000	555.95	
	62	1,2,4-trichlorobenzene	180	17.118	17.119	(1.000)	628776	500.000	510.26	
	63	hexachlorobutadiene	225	17.250	17.250	(1.000)	317911	500.000	507.53	
	64	naphthalene	128	17.500	17.500	(1.000)	773165	500.000	520.93	
	65	1,2,3-trichlorobenzene	180	17.596	17.596	(1.000)	481118	500.000	514.43	
M	66	Xylene (total)	106				4901204	1500.00		a

QC Flag Legend

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

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A09.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

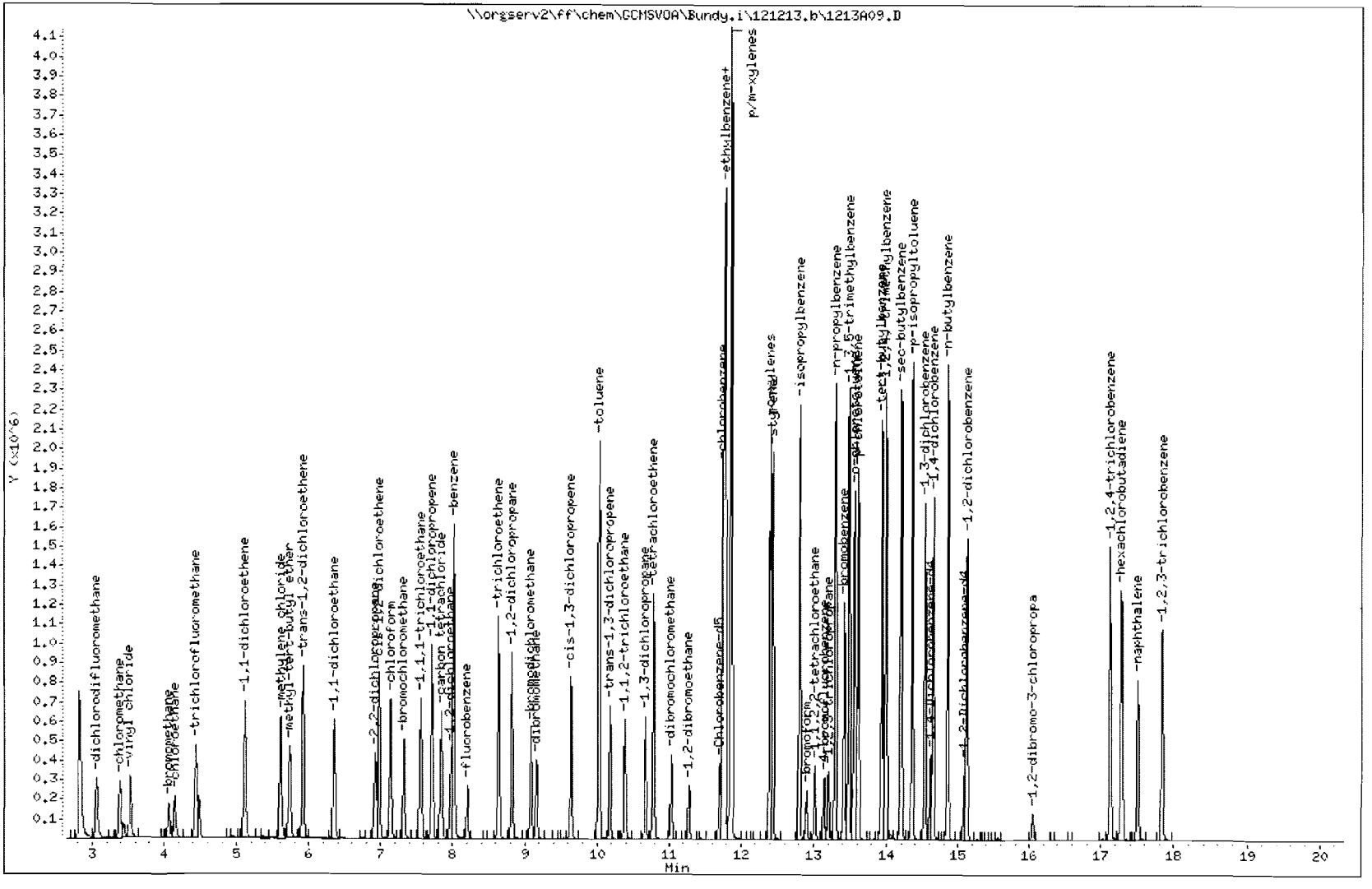
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	239718	-8.70
34 Chlorobenzene-d5	253541	126771	507082	227011	-10.46
56 1,4-Dichlorobenze	139834	69917	279668	124616	-10.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A09.D
Date : 13-DEC-2012 17:38
Client ID:
Sample Info: 524 LVL 6
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Alpha Analytical Labs

Manual Integration

Sample Info	: 524 LVL 6 wg,ical		
Instrument ID	: Bundy.i		
Method	: 524.m		
File	: 1213A09.D		
Injection Date	: 13-DEC-2012 17:38		
Quantitation	: ISTD	Integrator :	HP RTE
Dilution Factor	: 1.00	Sample Type:	CALIB_6

There are no manual integrations in this file.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A10.D
Lab Smp Id:
Inj Date : 13-DEC-2012 18:13
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 7
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 17:38 Cal File: 1213A09.D
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS On-COL (ug/L)	REVIEW CODE
1	dichlorodifluoromethane	85	2.034	2.016	(0.57)	7918.7	1000.00	964.62	
2	chloromethane	50	3.276	2.370	0.411	8774.6	1000.00	908.65	
3	vinyl chloride	62	3.537	3.517	(0.429)	82e84	1000.00	947.69	
4	bromomethane	94	4.062	4.062	(0.497)	28674	1000.00	1089.64	A
5	chloroethane	64	4.746	4.746	(0.580)	466466	1000.00	934.76	
6	trichlorofluoromethane	101	4.425	4.430	(0.541)	96470.9	1000.00	947.09	
7	1,1-dichloroethene	96	5.711	5.711	(0.698)	579.58	1000.00	929.82	
8	methylene chloride	84	5.004	5.004	(0.6120)	644434	1000.00	881.26	
9	methyl-tert-butyl ether	73	5.930	5.930	(0.6988)	947312	1000.00	864.74	
10	trans-1,2-dichloroethene	96	5.918	5.918	0.711	645145	1000.00	944.59	
11	1,1-dichloroethane	63	6.548	6.548	(0.774)	126127	1000.00	949.10	
12	2,2-dichloropropane	77	6.620	6.620	(0.8403)	6.7962	1000.00	1075.78	A
13	cis-1,2-dichloroethene	96	6.972	6.972	(0.8500)	675832	1000.00	945.61	
14	chloroform	83	7.135	7.135	(0.8701)	104239	1000.00	945.34	
15	bromochloromethane	128	7.324	7.324	(0.8951)	23975	1000.00	916.70	
16	1,1,1-trichloroethane	97	7.554	7.554	(0.9211)	97e121	1000.00	884.61	
17	1,1-dichloropropene	75	7.711	7.711	(0.940)	295643	1000.00	947.34	
18	carbon tetrachloride	117	7.837	7.857	(0.955)	259076	1000.00	1033.14	A
19	1,2-dichloroethane	62	7.968	7.968	(0.9711)	643302	1000.00	990.20	
20	benzene	78	8.016	8.016	(0.977)	2617144	1000.00	928.45	
* 21	fluorobenzene	96	8.204	8.204	(1.000)	755584	100.000		
22	trichloroethene	95	8.634	8.634	(1.052)	403430	1000.00	941.53	
23	1,2-dichloropropane	63	8.812	8.812	(1.075)	702471	1000.00	929.14	
24	dibromomethane	93	9.065	9.065	(1.104)	696e75	1000.00	899.04	
25	bromomethane	93	9.164	9.164	(1.117)	1.3403	1000.00	916.26	
26	cis-1,3-dichloropropene	75	9.636	9.636	(1.174)	342402	1000.00	972.75	
27	toluene	91	10.024	10.024	(1.221)	1724424	1000.00	929.61	
28	trans-1,3-dichloropropene	75	10.181	1 .1e1	(1.241)	653099	1000.00	981.30	

		Compounds	TGT SLC MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	FAVFW COLP
	29	1,1,1-trichloroethane	83	10.380	10.380	(1.206)	74.797	1000.00	903.79	
	30	1,3-dichloropropane	76	10.663	10.663	(1.301)	615740	1000.00	952.74	
	31	tetrachloroethene	166	10.784	10.784	(1.314)	741043	1000.00	928.95	
	32	dibromochloromethane	129	11.030	11.029	(1.344)	449665	1000.00	1305.42	a
	33	1,2-dibromoethane	107	11.071	11.070	(0.964)	556701	1000.00	948.61	
*	34	Chlorobenzene-d5	117	11.696	11.696	(1.000)	2014456	150.000		
	35	chlorobenzene	112	11.748	11.748	(1.004)	1847561	1000.00	952.05	
	36	ethylbenzene	91	11.779	11.779	(1.006)	3178724	1000.00	945.72	
	37	1,1,1,2-tetrachloroethane	131	11.775	11.775	(1.007)	592121	1000.00	952.59	
	38	p/m-xylene	106	11.959	11.959	(1.022)	2456387	2000.00	1923.05	
	39	o-xylene	106	12.399	12.399	(1.060)	1230522	1000.00	965.30	
	40	styrene	104	12.430	12.430	(1.063)	1961665	1000.00	960.17	
	41	isopropylbenzene	105	12.808	12.808	(1.095)	3010130	1000.00	977.04	
	42	bromoform	173	12.902	12.902	(1.103)	756047	1000.00	1003.16	a
	43	1,1,2,2-tetrachloroethane	83	13.017	13.017	(1.113)	968714	1000.00	958.40	
S	44	4-bromofluorobenzene	95	13.138	13.138	(1.123)	10582	100.000	98.19	
	45	1,2,3-trichloropropane	110	13.206	13.206	(1.129)	1054554	1000.00	951.70	
	46	n-propylbenzene	91	13.301	13.301	(1.137)	3581587	1000.00	965.74	
	47	bromobenzene	156	13.421	13.421	(1.147)	726581	1000.00	956.28	
	48	1,3,5-trimethylbenzene	105	13.489	13.489	(1.153)	2693954	1000.00	984.11	
	49	o-chlorotoluene	126	13.563	13.563	(1.160)	776207	1000.00	971.95	
	50	p-chlorotoluene	91	13.619	13.619	(1.164)	2331731	1000.00	954.08	
	51	tert-butylbenzene	119	13.935	13.935	(1.191)	2656257	1000.00	969.80	
	52	1,2,4,-trimethylbenzene	105	13.987	13.987	(1.196)	2603954	1000.00	971.50	
	53	sec-butylbenzene	105	14.197	14.197	(1.214)	945.784	1000.00	971.12	
	54	p-isopropyltoluene	119	14.249	14.249	(1.218)	3.03801	1000.00	976.47	
	55	1,3-dichlorobenzene	146	14.503	14.503	(0.998)	1486714	1000.00	963.24	
*	56	1,4-dichlorobenzene-d4	152	14.611	14.611	(1.000)	1256.1	150.000		
	57	1,4-dichlorobenzene	146	14.653	14.653	(1.003)	1470414	1000.00	956.67	
	58	n-butylbenzene	91	14.853	14.853	(1.017)	2376115	1000.00	978.14	
S	59	1,2-dichlorobenzene-d4	152	15.008	15.008	(1.355)	103756	100.000	99.10	
	60	1,2-dichlorobenzene	146	15.120	15.120	(1.036)	1256044	1000.00	944.66	
	61	1,2-dibromo-3-chloropropane	75	15.049	15.049	(1.097)	55712	1000.00	974.61	
	62	1,2,4-trichlorobenzene	180	17.129	17.129	(1.172)	984826	1000.00	960.03	
	63	hexachlorobutadiene	225	17.250	17.250	(1.181)	611184	1000.00	950.04	
	64	naphthalene	128	17.570	17.570	(1.196)	1606640	1000.00	962.35	
	65	1,2,3-trichlorobenzene	180	17.836	17.836	(1.221)	747553	1000.00	940.10	
M	66	Xylene (total)	106				4686553	3000.00		a

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.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A10.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52

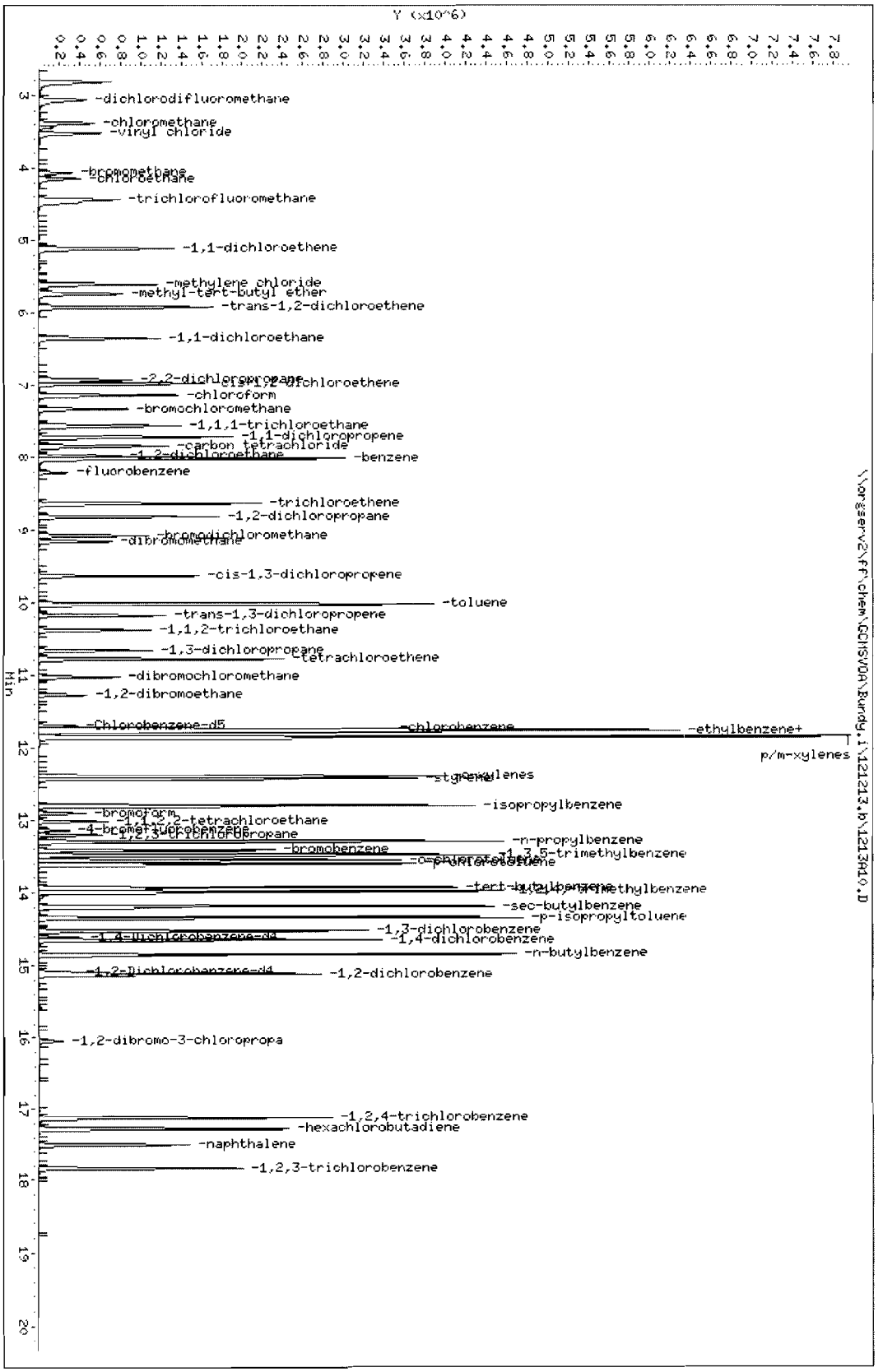
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	255864	-2.55
34 Chlorobenzene-d5	253541	126771	507082	230445	-9.11
56 1,4-Dichlorobenze	139834	69917	279668	125060	-10.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213#10.D
Date : 13-DEC-2012 18:13
Client ID:
Sample Info: 524 LVL 7
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18

Page 4

Alpha Analytical Labs

Manual Integration

Sample Info	: 524 LVL 7 wg,ical		
Instrument ID	: Bundy.i		
Method	: 524.m		
File	: 1213A10.D		
Injection Date	: 13-DEC-2012 18:13		
Quantitation	: ISTD	Integrator : HP RTE	
Dilution Factor	: 1.00	Sample Type: CALIB_7	

There are no manual integrations in this file.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213A11.D
Lab Smp Id:
Inj Date : 13-DEC-2012 18:48
Operator : kl Inst ID: Bundy.i
Smp Info : 524 LVL 8
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Meth Date : 14-Dec-2012 09:59 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:13 Cal File: 1213A10.D
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT	ON-COL	FLAGS CODE
1 dichlorodifluoromethane	85	3.076	3.056	(0.547)	1.82e+5	2000.00	810.68	A
2 chloromethane	50	3.376	3.376	(0.603)	1.72e+5	1900.00	1010.81	A
3 vinyl chloride	62	3.517	3.517	(0.628)	1.63e+5	2000.00	124.70	A
4 bromomethane	94	4.063	4.067	(0.495)	61e+5	2000.00	2428.44	A
5 chloroethane	64	4.144	4.148	(0.505)	90+5	1000.00	1080.7	A
6 trichlorofluoromethane	101	4.435	4.435	(0.541)	1.9e+5	2000.00	1974.14	A
7 1,1-dichloroethene	96	5.111	5.111	(0.623)	1.3e+5	2000.00	1937.69	A
8 methylene chloride	84	5.604	5.604	(0.683)	1.0e+5	2000.00	1811.74	A
9 methyl-tert-butyl ether	73	5.730	5.730	(0.698)	1.9e+5	2000.00	1811.22	A
10 trans-1,2-dichloroethene	96	5.914	5.913	(0.721)	1.3e+5	2000.00	1970.85	A
11 1,1-dichloroethane	63	6.348	6.348	(0.774)	2.1e+5	2000.00	1979.84	A
12 2,2-dichloropropane	77	6.409	6.409	(0.543)	141e+5	2000.00	2541.95	A
13 cis-1,2-dichloroethene	96	6.893	6.892	(0.840)	1.3e+5	2000. 0	1951.57	A
14 chloroform	83	7.145	7.135	(0.870)	2.1e+5	2000.00	1991.0	A
15 bromochloromethane	128	7.324	7.324	(0.893)	48e+5	2000.00	1870.50	A
16 1,1,1-trichloroethane	97	7.554	7.554	(0.921)	1.7e+5	2000.00	2026.41	A
17 1,1-dichloropropene	75	7.711	7.712	(0.940)	1.5e+5	2000.00	1991.07	A
18 carbon tetrachloride	117	7.830	7.830	(0.955)	1.2e+5	2000.00	1902.4	A
19 1,2-dichloroethane	62	7.974	7.974	(0.972)	1.2e+5	2000.00	1898.18	A
20 benzene	78	8.016	8.016	(0.977)	3.5e+5	2000.00	1	A
21 fluorobenzene	96	8.206	8.206	(1.000)	4.1e+5	2000.00		
22 trichloroethene	95	8.634	8.634	(1.052)	1.4e+5	2000.00	1965.9	A
23 1,2-dichloropropane	63	8.918	8.918	(1.087)	1.2e+5	2000.00	1919.11	A
24 bromodichloromethane	83	9.065	9.065	(1.105)	1.4e+5	2000.00	2121.21	A
25 dibromomethane	93	9.164	9.164	(1.117)	7.0e+4	2000.00	1911.7	A
26 cis-1,3-dichloropropene	75	9.636	9.636	(1.174)	1.6e+5	2000.00	1944.66	A
27 toluene	92	10.029	10.029	(1.222)	3.1e+5	2000.00	1924.5	A
28 trans-1,3-dichloropropene	75	10.191	10.191	(1.241)	1.3e+5	2000.00	2004.05	A

C	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ng)	REVIEW COMP
	26 1,1,2-trichloroethane	83	10.300	10.556	(1.265)	1630909	4000.00	1685.18	(A)
	30 1,3-dichloropropane	76	10.667	10.663	(1.300)	1895184	2000.00	1652.70	(A)
	31 tetrachloroethene	164	10.784	10.721	(1.314)	1349385	2000.00	1626.35	(A)
	32 dibromochloromethane	129	11.031	11.031	(1.344)	914727	2000.00	2003.11	(A)
	33 1,2-dibromoethane	107	11.172	11.172	(0.964)	698983	2000.00	1939.62	(A)
*	34 Chlorobenzene-d5	117	11.696	11.696	(1.000)	227041	150.000		
	35 chlorobenzene	112	11.704	11.748	(1.004)	5416731	2000.00	1993.41	(A)
	36 ethylbenzene	91	11.775	11.775	(1.007)	6579471	2000.00	1967.66	(A)
	37 1,1,1,2-tetrachloroethane	131	11.780	11.780	(1.007)	1161348	2000.00	1975.66	(A)
	38 p/m-xylenes	106	11.964	11.964	(1.014)	1697294	4000.00	3972.62	(A)
	39 o-xylenes	106	12.396	12.399	(1.060)	2364424	2000.00	1918.30	(A)
	40 styrene	104	12.436	12.436	(1.063)	4053147	2000.00	1926.57	(A)
	41 isopropylbenzene	105	12.805	12.8[illegible]	(1.095)	6295202	2000.00	1936.67	(A)
	42 bromoform	173	12.902	12.[illegible]	(1.104)	496260	2000.00	1772.23	(A)
	43 1,1,2,2-tetrachloroethane	83	13.014	13.010	(1.113)	722382	2000.00	1991.94	(A)
S	44 4-bromofluorobenzene	95	13.143	13.143	(1.124)	1005[illegible]	100.000	[illegible].26	
	45 1,2,3-trichloropropane	110	13.208	13.196	(1.129)	1040[illegible]	2000.00	1846.[illegible]	(A)
	46 n-propylbenzene	91	13.301	13.[illegible]	(1.137)	760[illegible]	2000.00	1936.90	(A)
	47 bromobenzene	156	13.421	13.421	(1.147)	1435381	2000.00	1918.64	(A)
	48 1,3,5-trimethylbenzene	105	13.485	13.485	(1.153)	5261792	2000.00	1946.54	(A)
	49 2-chlorotoluene	126	13.505	13.505	(1.160)	1475900	2000.00	1873.07	(A)
	50 p-chlorotoluene	91	13.615	13.615	(1.164)	4637218	2000.00	1955.40	(A)
	51 tert-butylbenzene	119	13.935	13.935	(1.191)	4602201	2000.00	1924.36	(A)
	52 1,2,4,-trimethylbenzene	105	13.993	13.993	(1.196)	5[illegible]5192	2000.00	1926.66	(A)
	53 sec-butylbenzene	105	14.107	14.107	(1.206)	6707121	2000.00	1917.10	(A)
	54 p-isopropyltoluene	119	14.255	14.[illegible]	(1.219)	5944333	2000.00	1[illegible]	(A)
	55 1,3-dichlorobenzene	146	14.533	14.533	(1.243)	2925079	2000.00	1954.78	(A)
*	56 1,4-dichlorobenzene-d4	152	14.617	14.617	(1.000)	420472	150.000		
	57 1,4-dichlorobenzene	146	14.604	14.[illegible]	(1.249)	2871866	2000.00	1934.57	(A)
	58 n-butylbenzene	91	14.[illegible]	14.[illegible]	(1.[illegible])	5[illegible]815	2000.00	1977.4[illegible]	(A)
S	59 1,2-dichlorobenzene-d4	152	15.009	15.009	(1.027)	10[illegible]510	100.000	99.43	
	60 1,2-dichlorobenzene	146	15.[illegible]	15.[illegible]	(1.035)	2[illegible]34	2000.00	1926.26	(A)
	61 1,2-dibromo-3-chloropropane	75	16.049	16.049	(1.098)	1151[illegible]	2000.00	2107.95	(A)
	62 1,2,4-trichlorobenzene	180	17.135	17.[illegible]	(1.172)	1656709	2000.00	1930.47	(A)
	63 hexachlorobutadiene	225	17.203	17.225	(1.178)	1213143	2000.00	1907.43	(A)
	64 naphthalene	128	17.[illegible]	17.306	(1.[illegible])	3[illegible]491	2000.00	1941.29	(A)
	65 1,2,3-trichlorobenzene	180	17.[illegible]	17.[illegible]	(1.[illegible])	15[illegible]57	2000.00	1[illegible]	(A)
M	66 Xylene (total)	[illegible]				70[illegible]	6000.00	[illegible]	

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.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1213A11.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	244528	-6.87
34 Chlorobenzene-d5	253541	126771	507082	227041	-10.45
56 1,4-Dichlorobenze	139834	69917	279668	120472	-13.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.21	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.62	0.04

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

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213f11.D
Date : 13-DEC-2012 18:48
Client ID:
Sample Info: 524 LVL 8
Purge Volume: 25.0
Column phase:
Instrument: Bundy.i
Operator: kl
Column diameter: 0.18
\\orgserv2\ff\chem\GCMSVOA\Bundy.i\121213.b\1213f11.D
Y (x10^7)
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
-1,1-dichloroethene
-methylene chloride
-methyl-tert-butyl ether
-trans-1,2-dichloroethene
-1,1-dichloroethane
-2,2-dichloropropane
-cis-1,2-dichloroethene
-chloroform
-bromochloromethane
-1,1,1-trichloroethane
-1,1-dichloropropene
-carbon tetrachloride
-1,2-dichloroethane
-benzene
-fluorobenzene
-trichloroethene
-1,2-dichloropropane
-dibromomethane
-bromodichloromethane
-cis-1,3-dichloropropene
-toluene
-trans-1,3-dichloropropene
-1,1,2-trichloroethane
-1,3-dichloropropane
-tetrachloroethene
-dibromochloromethane
-1,2-dibromoethane
-Chlorobenzene-d5
-chlorobenzene
-ethylbenzene+
p/m-xylenes
-styrene
-isopropylbenzene
-bromoform
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
1,2,3-trichloropropane
-n-propylbenzene
-bromobenzene
-1,3,5-trimethylbenzene
-o-chlorotoluene
p-chlorotoluene
-tert-butylbenzene
1,2,4-trimethylbenzene
-sec-butylbenzene
-p-isopropyltoluene
-1,3-dichlorobenzene
-1,4-Dichlorobenzene-d4
-1,4-dichlorobenzene
-n-butylbenzene
-1,2-Dichlorobenzene-d4
-1,2-dichlorobenzene
-1,2-dibromo-3-chloropropa
-1,2,4-trichlorobenzene
-hexachlorobutadiene
-naphthalene
-1,2,3-trichlorobenzene

Alpha Analytical Labs

Manual Integration

Sample Info	: 524 LVL 8 wg,ical		
Instrument ID	: Bundy.i		
Method	: 524.m		
File	: 1213A11.D		
Injection Date	: 13-DEC-2012 18:48		
Quantitation	: ISTD	Integrator :	HP RTE
Dilution Factor	: 1.00	Sample Type:	CALIB_8

There are no manual integrations in this file.

Initial Calibration Verification

Alpha Analytical Labs

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Bundy.i
Lab File ID: 1214A01.D
Analysis Type: WATER
Lab Sample ID:
Method: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\524.m

Injection Date: 14-DEC-2012 09:09
Init. Cal. Date(s): 13-DEC-2012 13-DEC-2012
Init. Cal. Times: 11:45 18:48
Quant Type: ISTD

	COMPOUND	RF / AMOUNT	MIN RF	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1	dichlorodifluoromethane	0.45203	0.05000	0.01	-23.49%	30.00000	Averaged
2	chloromethane	0.51603	0.05000	0.010	-18.1972	30.00000	Averaged
3	vinyl chloride	0.51971	0.05000	0.010	-5.49013	30.00000	Averaged
4	bromomethane	0.15441	0.05000	0.010	-3.75171	30.00000	Averaged
5	chloroethane	0.09821	0.05000	0.010	-14.665%	30.00000	Averaged
6	trichlorofluoromethane	0.59826	0.05000	0.010	-17.4492	30.00000	Averaged
7	1,1-dichloroethene	0.36054	0.05000	0.010	-10.5907	30.00000	Averaged
8	methylene chloride	0.36214	0.05000	0.010	-6.56244	30.00000	Averaged
9	methyl-tert-butyl ether	0.65771	0.05000	0.010	2.83047	30.00000	Averaged
10	trans-1,2-dichloroethene	0.40403	0.05000	0.010	-4.01666	30.00000	Averaged
11	1,1-dichloroethane	0.77956	0.05000	0.010	-6.09747	30.00000	Averaged
12	2,2-dichloropropane	0.34923	0.05000	0.010	-0.0738	30.00000	Averaged
13	cis-1,2-dichloroethene	0.41926	0.05000	0.010	-2.9505	30.00000	Averaged
14	chloroform	0.60e03	0.05000	0.010	-4.76127	30.00000	Averaged
15	bromochloromethane	0.21553	0.05000	0.010	0.5093	30.00000	Averaged
16	1,1,1-trichloroethane	0.5015	0.05000	0.010	-6.58000	30.00000	Averaged
17	1,1-dichloropropene	0.55720	0.05000	0.010	-3.7157	30.00000	Averaged
18	carbon tetrachloride	0.48400	0.05000	0.01	-5.01762	30.00000	Averaged
19	1,2-dichloroethane	0.41553	0.05000	0.010	0.16064	30.00000	Averaged
20	benzene	1.6302.1	1.61407	0.010	-1.20787	30.00000	Averaged
21	trichloroethene	0.44037	0.05000	0.010	-2.27347	30.00000	Averaged
22	1,2-dichloropropane	0.44313	0.05000	0.010	-2.14777	30.00000	Averaged
23	bromodichloromethane	0.41307	0.05000	0.010	-10.6226	30.00000	Averaged
24	dibromomethane	0.16123	0.05000	0.010	-5.50223	30.00000	Averaged
25	cis-1,3-dichloropropene	0.50707	0.05000	0.010	0.16969	30.00000	Averaged
26	toluene	1.03453	1.00000	0.010	-2.2399	30.00000	Averaged
27	trans-1,3-dichloropropene	0.38045	0.05000	0.010	-11.9774	30.00000	Averaged
28	1,1,2-trichloroethane	0.19162	0.05000	0.010	1.16419	30.00000	Averaged
29	1,3-dichloropropane	0.40007	0.05000	0.010	1.23894	30.00000	Averaged
30	tetrachloroethene	0.49841	0.05000	0.010	-4.3745	30.00000	Averaged
31	chlorodibromomethane	0.25740	0.05000	0.010	-16.0506	30.00000	Averaged
32	1,2-dibromoethane	0.23135	0.05000	0.010	0.92756	30.00000	Averaged
33	chlorobenzene	1.16125	1.00000	0.010	-6.92010	30.00000	Averaged
34	ethylbenzene	2.2e+06	2.23465	0.010	11.8 3521	30.00000	Averaged
35	1,1,1,2-tetrachloroethane	0.38010	0.36745	0.010	-1.5911	30.00000	Averaged
36	p/m-xylenes	0.85142	0.85000	0.010	-1.47673	30.00000	Averaged
37	o-xylene	0.41507	0.40000	0.010	-6.42681	30.00000	Averaged
38	styrene	1.12114	1.06114	0.01	3.0585	30.00000	Averaged
39	isopropylbenzene	1.85e+06	1.99506	0.010	-7.42654	30.00000	Averaged
40	bromoform	0.14415	0.12854	0.010	-10.2176	30.00000	Averaged
41	1,1,2,2-tetrachloroethane	0.55226	0.26600	0.010	1.62 0	30.00000	Averaged
s	4-bromofluorobenzene	0.72615	0.73047	0.01	0.6031	30.00000	Averaged

Alpha Analytical Labs

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Bundy.i
Lab File ID: 1214A01.D
Analysis Type: WATER
Lab Sample ID:
Method: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\524.m

Injection Date: 14-DEC-2012 09:09
Init. Cal. Date(s): 13-DEC-2012 13-DEC-2012
Init. Cal. Times: 11:45 18:48
Quant Type: ISTD

			MIN		MAX		
	COMPOUND	RELATIVE RT	RT	%D / %DRIFT	%D / %DRIFT	CURVE TYPE	
45	1,1,2-trichloropropane	0.37484	0.07279	0.010	-4.15190	30.00000	Averaged
46	n-propylbenzene	2.59564	2.57511	0.010	-3.57192	30.00000	Averaged
47	bromobenzene	0.48496	0.50172	0.010	1.61922	30.00000	Averaged
48	1,3,5-trimethylbenzene	1.78315	1.81339	0.01	5.09447	30.00000	Averaged
49	o-chlorotoluene	0.12095	0.49155	0.01	-4.17631	30.00000	Averaged
50	2-chlorotoluene	1.52192	1.44568	0.010	-4.42195	30.00000	Averaged
51	tert-butylbenzene	1.80762	1.81650	0.010	-6.29954	30.00000	Averaged
52	1,2,4-trimethylbenzene	1.51235	1.53537	0.01	5.09447	30.00000	Averaged
53	sec-butylbenzene	1.96199	2.10654	0.010	-7.09531	30.00000	Averaged
54	p-isopropyltoluene	2.06976	1.94744	0.010	-5.90975	30.00000	Averaged
55	1,3-dichlorobenzene	1.06512	1.04543	0.010	-6.53197	30.00000	Averaged
56	1,4-dichlorobenzene	1.04860	1.04467	0.010	0.05529	30.00000	Averaged
57	n-butylbenzene	1.40102	1.57152	0.01	-0.40017	30.00000	Averaged
58	1,2-Dichlorobenzene-d4	1.20581	1.15962	0.010	-6.01031	30.00000	Averaged
59	1,2-dichlorobenzene	1.09470	1.10804	0.010	-6.00834	30.00000	Averaged
60	1,2-dibromo-3-chloropropane	0.06635	0.06168	0.01	-4.32542	30.00000	Averaged
61	1,2,4-trichlorobenzene	1.22877	1.18902	0.01	-2.09754	30.00000	Averaged
62	hexachlorobutadiene	0.75191	0.78137	0.010	1.17630	30.00000	Averaged
63	naphthalene	1.75520	1.75420	0.010	-1.57445	30.00000	Averaged
64	1,2,3-trichlorobenzene	1.07180	1.03151	0.010	-0.62952	30.00000	Averaged
65	Xylene (total)	1.52600	1.78915	0.01	-2.34123	30.00000	Averaged

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\1214A01.D
Lab Smp Id:
Inj Date : 14-DEC-2012 09:09
Operator : kl Inst ID: Bundy.i
Smp Info : 524 ICV
Misc Info : wg,ical
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\524.m
Meth Date : 14-Dec-2012 10:00 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 17:03 Cal File: 1213A08.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

		QUANT FLG					AMOUNTS		
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	FLAG/REV CODE
1	dichlorodifluoromethane	85	3.076	3.076	(0.591)	84787	100.000	98.100M	M
2	chloromethane	50	3.375	3.375	(0.648)	71164	100.000	91.80	
3	vinyl chloride	62	3.517	3.517	(0.676)	86814	100.000	94.74	
4	bromomethane	94	4.004	4.013	(0.769)	14484	100.000	91.92	
5	chloroethane	64	4.144	4.146	(0.796)	45844	100.000	97.32	
6	trichlorofluoromethane	101	4.435	4.435	(0.851)	76771	100.000	92.35	
7	1,1-dichloroethene	96	5.106	5.106	(0.980)	57616	100.000	94.69	
8	methylene chloride	84	5.509	5.509	(1.058)	59282	100.000	96.13	
9	methyl-tert-butyl ether	73	5.738	5.736	(1.102)	1376 3	100.000	101.03	
10	trans-1,2-dichloroethene	96	5.910	5.910	(1.134)	67441	100.000	95.69	
11	1,1-dichloroethane	63	6.348	6.348	(1.219)	1.1179	100.000	93.70	
12	2,2-dichloropropane	77	6.415	6.415	(1.232)	56691	100.000	91.02	
13	cis-1,2-dichloroethene	96	6.471	6.471	(1.243)	71441	100.000	95.14	
14	chloroform	83	6.630	6.630	(1.273)	1e5e 1	100.000	95.23	
15	bromochloromethane	128	6.823	6.823	(1.310)	2e6 e	100.000	100.60	
16	1,1,1-trichloroethane	97	6.914	6.914	(1.327)	85407	100.000	95.41	
17	1,1-dichloropropene	75	7.011	7.011	(1.346)	9e1	100.000	98.28	
18	carbon tetrachloride	117	7.045	7.043	(1.352)	7 3	100.000	90.08	
19	1,2-dichloroethane	62	7.068	7.068	(1.357)	945%	100.000	100.53	
20	benzene	78	7.210	7.210	(1.384)	2e341	100.000	98.70	
21	fluorobenzene	96	7.304	7.304	(1.402)	7e5 e2	100.000		
22	trichloroethene	130	7.631	7.634	(1.465)	61e5	100.000	97.7	
23	1,2-dichloropropane	63	8.010	8.010	(1.537)	7e1e5	100.000	97.84	
24	bromodichloromethane	83	8.088	8.088	(1.552)	6e4 2	100.000	96.81	
25	dibromomethane	93	8.164	8.164	(1.567)	6e1	100.000	98.19	
26	cis-1,3-dichloropropene	75	8.636	8.636	(1.658)	8e4	100.000	100.6	
27	toluene	91	10.024	10.024	(1.924)	1e4e2	100.000	97.7	
28	trans-1,3-dichloropropene	75	10.136	10.136	(1.945)	7e34	100.000	96.0	

		Compounds	TRAC SIC Mass	RT	Exp RT	Rel RT	Response	AMOUNTS Val-Std (ngs	ON-COL (ngs	Review Comments
	28	1,3,5-trichlorobenzene	180	10.305	10.304	1.2689	56150	100.000	101.19	
	29	1,3-dichloropropane	76	10.663	10.663	1.3009	79157	100.000	101.85	
	30	tetrachloroethene	166	10.784	10.784	1.316	70847	100.000	95.51	
	32	dibromochloromethane	129	11.060	11.060	1.3446	64424	100.000	94.41	
	33	1,2-dibromoethane	107	11.241	11.232	1.3664	57357	100.000	100.72	
*	34	Chlorobenzene-d5	117	11.698	11.698	1.0000	940651	100.000		
	35	chlorobenzene	112	11.743	11.743	1.0004	149139	100.000	93.67	
	36	ethylbenzene	91	11.770	11.770	1.0062	301427	100.000	101.07	
	37	1,1,1,2-tetrachloroethane	131	11.775	11.775	1.0065	63002	100.000	100.69	
	38	p/m-xylenes	106	11.953	11.953	1.015	262159	200.000	197.11	
	39	o-xylene	106	12.394	12.394	1.0509	121425	100.000	93.07	
	40	styrene	104	12.430	12.430	1.0665	217019	100.000	103.05	
	41	isopropylbenzene	105	12.601	12.602	1.0785	319299	100.000	99.51	
	42	bromoform	173	12.802	12.802	1.0954	50734	100.000	99.81	
	43	1,1,2,2-tetrachloroethane	83	13.017	13.017	1.1137	42668	100.000	105.69	
S	44	4-bromofluorobenzene	95	13.134	13.130	1.1236	116807	100.000	100.68	
	45	1,2,3-trichloropropane	110	13.201	13.2	1.1292	31647	100.000	96.84	
	46	n-propylbenzene	91	13.395	13.395	1.1457	303080	100.000	97.61	
	47	bromobenzene	156	13.416	13.416	1.1474	72242	100.000	101.00	
	48	1,3,5-trimethylbenzene	105	13.484	13.484	1.1532	248905	100.000	95.09	
	49	o-chlorotoluene	126	13.537	13.537	1.1578	78335	100.000	96.77	
	50	p-chlorotoluene	91	13.605	13.605	1.1636	253841	100.000	97.57	
	51	tert-butylbenzene	119	13.830	13.830	1.1911	241035	100.000	98.71	
	52	1,2,4,-trimethylbenzene	105	13.9	13.902	1.1891	269302	100.000	100.84	
	53	sec-butylbenzene	105	14.092	14.092	1.2049	346721	100.000	97.90	
	54	p-isopropyltoluene	119	14.246	14.246	1.2181	317636	100.000	96.19	
	55	1,3-dichlorobenzene	146	14.527	14.527	1.2424	153367	100.000	98.68	
*	56	1,4-Dichlorobenzene-d4	152	14.611	14.611	1.0000	83178	100.000		
	57	1,4-dichlorobenzene	146	14.653	14.653	1.2533	161062	100.000	100.04	
	58	n-butylbenzene	91	14.853	14.853	1.2704	248209	100.000	99.04	
S	59	1,2-dichlorobenzene-d4	151	15.003	15.003	1.2832	123573	100.000	99.09	
	60	1,2-dichlorobenzene	146	15.120	15.120	1.2932	131604	100.000	98.65	
	61	1,2-dibromo-3-chloropropane	75	16.353	16.353	1.3989	5750	100.000	91.91	
	62	1,2,4-trichlorobenzene	180	17.136	17.136	1.4720	106259	100.000	97.90	
	63	hexachlorobutadiene	225	17.293	17.290	1.4854	66869	100.000	101.17	
	64	naphthalene	128	17.505	17.505	1.5040	183065	100.000	94.40	
	65	1,2,3-trichlorobenzene	180	17.636	17.636	1.5153	84807	100.000	94.97	
M	66	Xylene (total)	106				384712	300.000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1214A01.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121214.b\524.m
Misc Info: wg,ical

Calibration Date: 13-DEC-2012
Calibration Time: 15:52

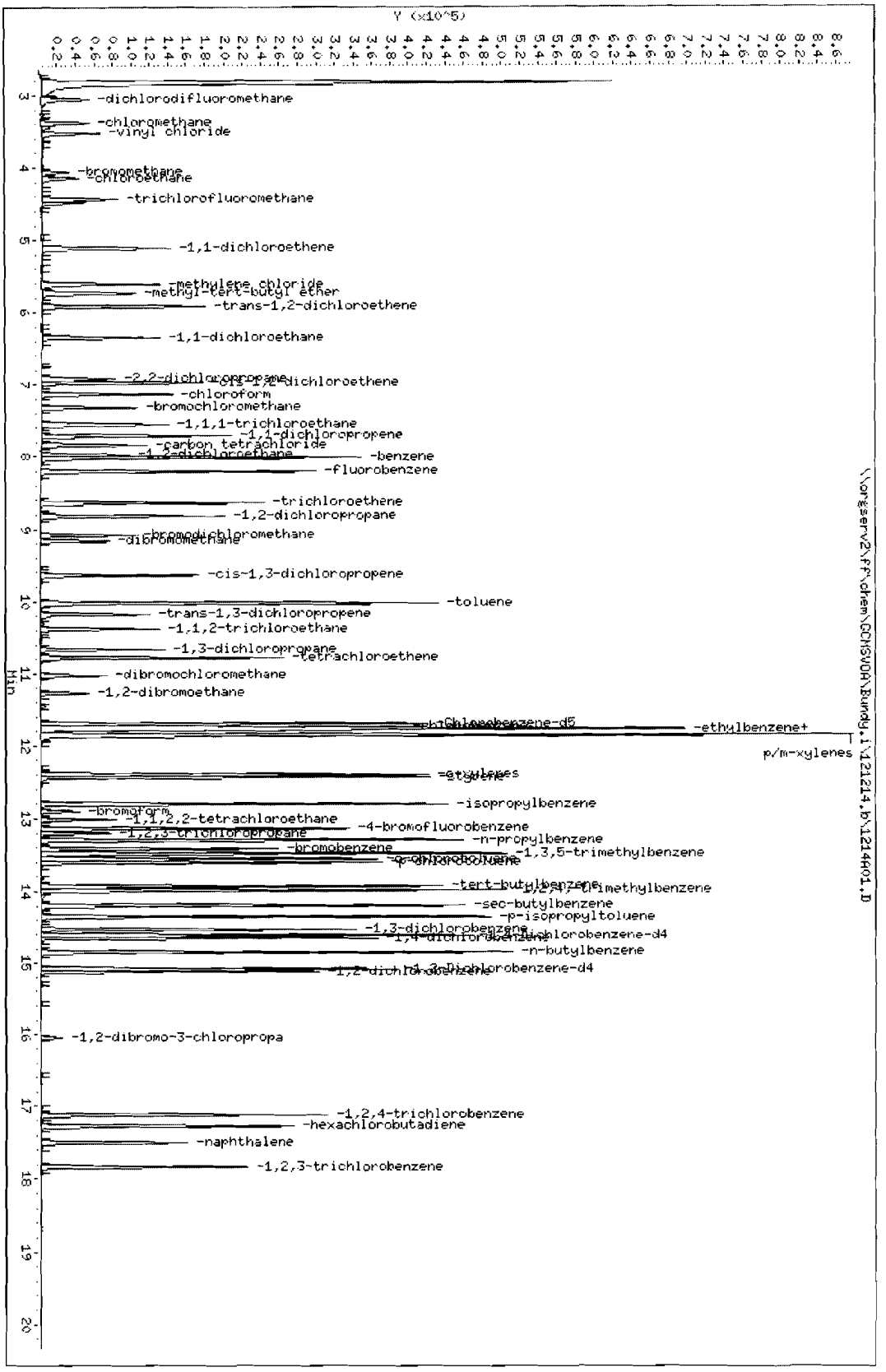
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	263382	0.31
34 Chlorobenzene-d5	253541	126771	507082	240052	-5.32
56 1,4-Dichlorobenze	139834	69917	279668	131781	-5.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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.


Y (x10^5)
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
-1,1-dichloroethene
-methylene chloride
-methyl-tert-butyl ether
-trans-1,2-dichloroethene
-1,1-dichloroethane
-2,2-dichloropropane
-cis-1,2-dichloroethene
-chloroform
-bromochloromethane
-1,1,1-trichloroethane
-1,1-dichloropropene
-carbon tetrachloride
-1,2-dichloroethane
-benzene
-fluorobenzene
-trichloroethene
-1,2-dichloropropane
-dibromomethane
-cis-1,3-dichloropropene
-toluene
-trans-1,3-dichloropropene
-1,1,2-trichloroethane
-1,3-dichloropropane
-tetrachloroethene
-dibromochloromethane
-1,2-dibromoethane
-ethylbenzene+
p/m-xylenes
-o-xylene
-isopropylbenzene
-bromoform
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
-1,2,3-trichloropropane
-n-propylbenzene
-bromobenzene
-1,3,5-trimethylbenzene
-tert-butylbenzene
-1,2,4-trimethylbenzene
-sec-butylbenzene
-p-isopropyltoluene
-1,3-dichlorobenzene
-n-butylbenzene
-1,2-dichlorobenzene-d4
-1,2-dibromo-3-chloropropa
-1,2,4-trichlorobenzene
-hexachlorobutadiene
-naphthalene
-1,2,3-trichlorobenzene
\\orgserv2\ff\chem\GCMSWOA\Bundy.i\121214.b\1214A01.D
Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121214.b\1214A01.D
Date : 14-DEC-2012 09:09
Client ID:
Sample Info: 524 ICV
Purge Volume: 25.0
Column phase:
Instrument: Bundy.i
Operator: kl
Column diameter: 0.18
Page 4

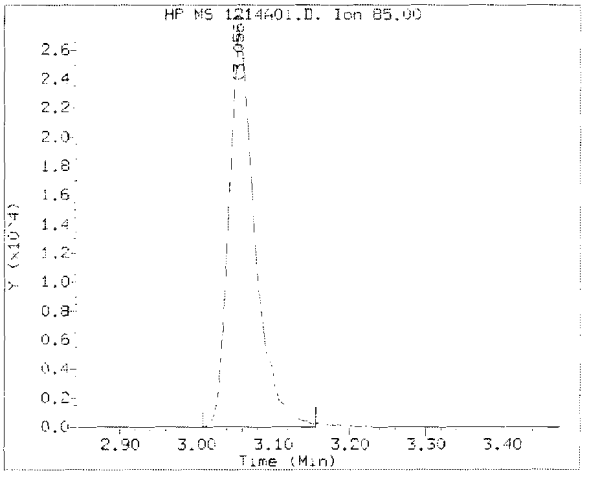
Alpha Analytical Labs

Manual Integration

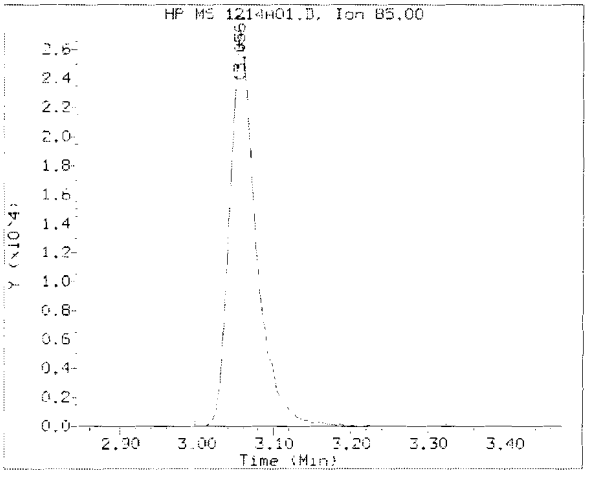
Sample Info : 524 ICV
wg,ical

Instrument ID : Bundy.i
Method : 524.m
File : 1214A01.D
Injection Date : 14-DEC-2012 09:09
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: CCALIB_3

Compound # 1: dichlorodifluoromethane



Original Peak Response = 64383



Manual Peak Response = 64782 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false lo area count.

Continuing Calibration

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: Bundy.i Calibration Date: 20-DEC-2012 Time: 09:09

Lab File ID: 1220A01 Init. Calib. Date(s): 13-DEC-2 13-DEC-2

Sample No: 524 CCV Init. Calib. Times : 11:45 18:48

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
dichlorodifluoromethane	.48223	.47987	.01	0	30
chloromethane	.52318	.46088	.01	-12	30
vinyl chloride	.51774	.5251	.01	1	30
bromomethane	.15441	.18148	.01	18	30
chloroethane	.29222	.29539	.01	1	30
trichlorofluoromethane	.59518	.59498	.01	0	30
1,1-dichloroethene	.36518	.36568	.01	0	30
methylene chloride	.36219	.34586	.01	-5	30
methyl-tert-butyl ether	.65172	.68959	.01	6	30
trans-1,2-dichloroethene	.4004	.40332	.01	1	30
1,1-dichloroethane	.77936	.77978	.01	0	30
2,2-dichloropropane	.34221	.30898	.01	-10	30
cis-1,2-dichloroethene	.41926	.4174	.01	0	30
chloroform	.65068	.64227	.01	-1	30
bromochloromethane	.15285	.15415	.01	1	30
1,1,1-trichloroethane	.58159	.56944	.01	-2	30
1,1-dichloropropene	.5572	.54462	.01	-2	30
carbon tetrachloride	.484	.45283	.01	-6	30
1,2-dichloroethane	.42338	.4139	.01	-2	30
benzene	1.6352	1.6343	.01	0	30
trichloroethene	.44037	.43709	.01	-1	30
1,2-dichloropropane	.44323	.43737	.01	-1	30
bromodichloromethane	.41307	.38017	.01	-8	30
dibromomethane	.16213	.16263	.01	0	30
cis-1,3-dichloropropene	.50787	.47598	.01	-6	30
toluene	1.0875	1.0950	.01	1	30
trans-1,3-dichloropropene	.39045	.34079	.01	-13	30
1,1,2-trichloroethane	.19163	.18769	.01	-2	30
1,3-dichloropropane	.40897	.39537	.01	-3	30
tetrachloroethene	.49341	.50018	.01	1	30
dibromochloromethane	.25748	.23465	.01	-9	30
1,2-dibromoethane	.23193	.21849	.01	-6	30
chlorobenzene	1.2619	1.2443	.01	-1	30
ethylbenzene	2.2093	2.1844	.01	-1	30
1,1,1,2-tetrachloroethane	.38515	.36847	.01	-4	30
p/m-xylenes	.83142	.83727	.01	1	30
o-xylenes	.81517	.81206	.01	0	30
styrene	1.3211	1.3187	.01	0	30

FORM VII 524.2

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1223074

Instrument ID: Bundy.i Calibration Date: 20-DEC-2012 Time: 09:09

Lab File ID: l220A01 Init. Calib. Date(s): 13-DEC-2 13-DEC-2

Sample No: 524 CCV Init. Calib. Times : 11:45 18:48

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
isopropylbenzene	2.1565	2.1330	.01	-1	30
bromoform	.14425	.12008	.01	-17	30
1,1,2,2-tetrachloroethane	.25226	.23862	.01	-5	30
1,2,3-trichloropropane	.07289	.07241	.01	-1	30
n-propylbenzene	2.5954	2.5258	.01	-3	30
bromobenzene	.49426	.47738	.01	-3	30
1,3,5-trimethylbenzene	1.7831	1.7549	.01	-2	30
o-chlorotoluene	.52055	.51335	.01	-1	30
p-chlorotoluene	1.5819	1.5402	.01	-3	30
tert-butylbenzene	1.6076	1.5617	.01	-3	30
1,2,4,-trimethylbenzene	1.8123	1.7821	.01	-2	30
sec-butylbenzene	2.3319	2.2914	.01	-2	30
p-isopropyltoluene	2.0697	2.0207	.01	-2	30
1,3-dichlorobenzene	1.8631	1.8272	.01	-2	30
1,4-dichlorobenzene	1.8436	1.7640	.01	-4	30
n-butylbenzene	3.4022	3.2822	.01	-4	30
1,2-dichlorobenzene	1.5947	1.5130	.01	-5	30
1,2-dibromo-3-chloropropane	.06685	.05928	.001	-11	30
1,2,4-trichlorobenzene	1.2237	1.1791	.01	-4	30
hexachlorobutadiene	.75251	.72178	.01	-4	30
naphthalene	1.7533	1.5890	.01	-9	30
1,2,3-trichlorobenzene	1.0018	.93629	.01	-7	30
66 Xylene (total)	.826	.82887	.01	0	30
4-bromofluorobenzene	.72615	.74574	.01	3	30
1,2-Dichlorobenzene-d4	1.2586	1.2668	.01	1	30

FORM VII 524.2

Alpha Analytical Labs

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Bundy.i
Lab File ID: 1220A01.D
Analysis Type: WATER
Lab Sample ID:
Method: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m

Injection Date: 20-DEC-2012 09:09
Init. Cal. Date(s): 13-DEC-2012 13-DEC-2012
Init. Cal. Times: 11:45 18:48
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	MIN RRF / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1	dichlorodifluoromethane	0.450238	0.47983	-6.49617	30.00000	Averaged
2	chloromethane	0.515315	0.46032	11.00546	30.00000	Averaged
3	vinyl chloride	0.517974	0.52510	1.42109	30.00000	Averaged
4	bromomethane	0.194441	0.16146	16.96139	30.00000	Averaged
5	chloroethane	0.282207	0.29553	7.03561	30.00000	Averaged
6	trichlorofluoromethane	0.555151	0.59193	-6.6232	30.00000	Averaged
7	1,1-dichloroethene	0.361151	0.36568	0.37%	30.00000	Averaged
8	methylene chloride	0.364[illegible]	0.34[illegible]	-4.5[illegible]	30.00000	Averaged
9	methyl-tert-butyl ether	0.651[illegible]	0.689[illegible]	5.81[illegible]	30.00000	Averaged
10	trans-1,2-dichloroethene	0.409408	0.40352	0.70%	30.00000	Averaged
11	1,1-dichloroethane	0.779788	0.77977	0.05430	30.00000	Averaged
12	2,2-dichloropropane	0.349211	0.34098	-8.[illegible]	30.00000	Averaged
13	cis-1,2-dichloroethene	0.419268	0.41746	-0.44412	30.00000	Averaged
14	chloroform	0.650691	0.64024	-1.[illegible]	30.00000	Averaged
15	bromochloromethane	0.154553	0.15415	0.25167	30.00000	Averaged
16	1,1,1-trichloroethane	0.501594	0.56424	-7.[illegible]	30.00000	Averaged
17	1,1-dichloropropene	0.557261	0.54461	-2.2[illegible]	30.00000	Averaged
18	carbon tetrachloride	0.494001	0.45025	-6.44048	30.00000	Averaged
19	1,2-dichloroethane	0.423834	0.41790	-1.[illegible]	30.00000	Averaged
20	benzene	1.659[illegible]	1.6[illegible]	-0.[illegible]	30.00000	Averaged
21	trichloroethene	0.443037	0.43709	-0.[illegible]	30.00000	Averaged
22	1,2-dichloropropane	0.443263	0.43[illegible]	-1.[illegible]	30.00000	Averaged
23	bromodichloromethane	0.413071	0.36017	-9.46849	30.00000	Averaged
24	dibromomethane	0.167[illegible]	0.1[illegible]	0.[illegible]	30.00000	Averaged
25	cis-1,3-dichloropropene	0.507271	0.47506	-6.27[illegible]	30.00000	Averaged
26	toluene	1.[illegible]	1.[illegible]	0.[illegible]	30.00000	Averaged
27	trans-1,3-dichloropropene	0.390465	0.34[illegible]	-11.[illegible]	30.00000	Averaged
28	1,1,2-trichloroethane	0.191[illegible]	0.1[illegible]	-1.[illegible]	30.00000	Averaged
29	1,3-dichloropropane	0.[illegible]	0.[illegible]	-2.[illegible]	30.00000	Averaged
30	tetrachloroethene	0.[illegible]	0.[illegible]	1.[illegible]	30.00000	Averaged
31	dibromochloromethane	0.[illegible]	0.[illegible]	-4.[illegible]	30.00000	Averaged
32	1,2-dibromoethane	0.[illegible]	0.[illegible]	-5.[illegible]	30.00000	Averaged
33	chlorobenzene	1.[illegible]	1.[illegible]	-1.[illegible]	30.00000	Averaged
34	ethylbenzene	2.[illegible]	2.[illegible]	-1.[illegible]	30.00000	Averaged
35	1,1,1,2-tetrachloroethane	0.5[illegible]	0.[illegible]	-4.[illegible]	30.00000	Averaged
36	m/p-xylene	.[illegible]	0.[illegible]	0.[illegible]	30.00000	Averaged
37	o-xylene	0.[illegible]	0.[illegible]	-0.[illegible]	30.00000	Averaged
38	styrene	1.[illegible]	1.[illegible]	-0.[illegible]	30.00000	Averaged
39	isopropylbenzene	2.[illegible]	2.[illegible]	-1.[illegible]	30.00000	Averaged
40	bromoform	0.144[illegible]	0.[illegible]	-10.[illegible]	30.00000	Averaged
41	1,1,2,2-tetrachloroethane	0.[illegible]	0.[illegible]	-7.[illegible]	30.00000	Averaged
42	1,2,3-trichloropropane	0.[illegible]	0.[illegible]	2.[illegible]	30.00000	Averaged

Alpha Analytical Labs

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Bundy.i
Lab File ID: 1220A01.D
Analysis Type: WATER
Lab Sample ID:
Method: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m

Injection Date: 20-DEC-2012 09:09
Init. Cal. Date(s): 13-DEC-2012 13-DEC-2012
Init. Cal. Times: 11:45 18:48
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	MIN RRF	% D / %RSD	MAX %D / %RSD	CURVE TYPE
45	1,1,2-trichloropropane	0.371491	3.67241	0.010	-0.666674	30.000000	Averaged
46	n-propylbenzene	2.525340	2.63542	0.010	-4.188403	30.000000	Averaged
47	bromobenzene	0.441826	0.437256	0.010	-0.410543	30.000000	Averaged
48	1,3,5-trimethylbenzene	1.753136	1.76496	0.010	-1.680791	30.000000	Averaged
49	2-chlorotoluene	0.820658	0.81956	0.01	-1.332e-3	30.000000	Averaged
50	4-chlorotoluene	0.581420	1.54425	0.010	-1.683432	30.000000	Averaged
51	tert-butylbenzene	1.604624	1.76178	0.010	-2.581011	30.000000	Averaged
52	1,2,4,-trimethylbenzene	1.512358	1.74215	0.010	-1.660419	30.000000	Averaged
53	sec-butylbenzene	1.551998	2.9145	0.01	-1.79e-4	30.000000	Averaged
54	4-isopropyltoluene	2.002976	2.02175	0.010	-2.186721	30.000000	Averaged
55	1,3-dichlorobenzene	1.465903	1.62770	0.010	-1.527650	30.000000	Averaged
57	1,4-dichlorobenzene	1.548762	1.70404	0.010	-4.315402	30.000000	Averaged
58	n-butylbenzene	1.40[illegible]	1.[illegible]	0.01	-2.[illegible]	30.000000	Averaged
59	1,2-Dichlorobenzene-d4	1.256561	1.26601	0.010	-0.751509	30.000000	Averaged
60	1,2-dichlorobenzene	1.594709	1.11505	0.010	-0.123227	30.000000	Averaged
61	1,2-dibromo-3-chloropropane	0.766251	0.85[illegible]	0.001	-11.5[illegible]	30.000000	Averaged
62	1,2,4-trichlorotoluene	1.2e37	1.17916	0.01	-3.64[illegible]	30.000000	Averaged
63	hexachlorobutadiene	0.751511	0.7[illegible]	0.010	-4.[illegible]	30.000000	Averaged
64	naphthalene	1.755624	1.5590210	0.010	-9.[illegible]106	30.000000	Averaged
65	1,2,3-trichlorobenzene	1.071126	0.930.3	0.010	-6.53[illegible]	30.000000	Averaged
66	m&p-Xylene [total]	0.526800	0.[illegible]	0.010	-0.[illegible]	30.000000	Averaged

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D
Lab Smp Id:
Inj Date : 20-DEC-2012 09:09
Operator : kl Inst ID: Bundy.i
Smp Info : 524 CCV
Misc Info : wg,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW COMP
1 dichlorodifluoromethane	85	3.058	3.058	(0.5..)	2e+0..	100.00	99..0	
2 chloromethane	50	3.276	3.270	(0.411)	7e+0..	100.000	97.69	
3 vinyl chloride	62	3.522	3.522	(0.4..)	9e+0..	1..000	101.47	
4 bromomethane	94	4.062	4.062	(0.5..)	3e+0..	100.000	107.52	
5 chloroethane	64	4.194	4.194	(0.5..)	1e+0..	100.00	103..	
6 trichlorofluoromethane	101	4.425	4.425	(0.541)	1e+0..	100.000	99.6.	
7 1,1-dichloroethene	96	5.111	5.111	(0.625)	8e+0..	100.000	100.15	
8 methylene chloride	84	5.409	5.409	(0.662)	6e+0..	1..000	98.48	
9 methyl-tert-butyl ether	73	5.735	5.735	(0.699)	1e+0..	100.000	105.71	
10 trans-1,2-dichloroethene	96	5.918	5.918	(0.721)	6e+0..	100.000	100.7	
11 1,1-dichloroethane	63	6.348	6.343	(0.774)	1e+0..	1..000	101.01	
12 2,2-dichloropropane	77	6.630	6.630	(0.808)	1e+0..	100.000	90.26	
13 cis-1,2-dichloroethene	96	6.930	6.930	(0.550)	7e+0..	100.000	99.65	
14 chloroform	83	7.135	7.135	(0.566)	1e+0..	100.00	90.70	
15 bromochloromethane	128	7.324	7.324	(0.581)	2e+0..	100.000	100.25	
16 1,1,1-trichloroethane	97	7.560	7.560	(0.600)	1e+0..	1..000	97.90	
17 1,1-dichloropropene	75	7.810	7.810	(0.619)	9e+0..	100.000	97.04	
18 carbon tetrachloride	117	7.937	7.937	(0.629)	9e+0..	100.000	95.02	
19 1,2-dichloroethane	62	7.988	7.988	(0.633)	8e+0..	100.000	99.54	
20 benzene	78	8.010	8.010	(0.635)	2e+0..	100.000	98.84	
* 21 fluorobenzene	96	8.204	8.204	(1.000)	2e+0..	100.00		
22 trichloroethene	95	8.684	8.684	(1.05..)	8e+0..	100.000	98.20	
23 1,2-dichloropropane	63	8.817	8.818	(1.075)	7e+0..	100.000	97.67	
24 dibromomethane	93	8.980	8.980	(1.094)	4e+0..	1..000	100.05	
25 bromodichloromethane	83	9.104	9.104	(1.110)	7e+0..	100.000	100.70	
26 cis-1,3-dichloropropene	75	9.636	9.636	(1.174)	2e+0..	100.000	95.0.	
27 toluene	91	10.024	10.024	(1.221)	1e+0..	100.000	100.08	
28 trans-1,3-dichloropropene	75	10.176	10.176	(1.240)	2e+0..	100.00	97.20	

			QUANT SIG MASS	RT	REL RT	RESPONSE	AMOUNT On-Column (ug/l)	REVIEW COLUMN
	29	1,1,2-trichloroethane	83	10.092	1.0631	592	100.000	97.04
	30	1,3-dichloropropane	76	10.663	1.1233	67974	100.000	96.07
	31	tetrachloroethene	166	10.754	1.1329	65578	100.000	101.37
	32	dibromochloromethane	129	11.066	1.1656	41202	100.000	91.13
	33	1,2-dibromoethane	107	11.257	1.1854	35423	100.000	94.20
*	34	Chlorobenzene-d5	117	11.696	1.2321	246045	150.000	
	35	chlorobenzene	112	11.743	1.2371	204021	100.000	98.60
	36	ethylbenzene	91	11.776	1.2406	389459	100.000	98.67
	37	1,1,1,2-tetrachloroethane	131	11.775	1.2407	41844	100.000	95.68
	38	p/m-xylenes	106	11.954	1.2593	871389	200.000	101.49
	39	o-xylenes	106	12.394	1.306	438058	100.000	99.61
	40	styrene	104	12.430	1.3097	716346	100.000	99.01
	41	isopropylbenzene	105	12.805	1.349	95788	100.000	96.01
	42	bromoform	173	12.909	1.3603	32746	100.000	95.24
	43	1,1,2,2-tetrachloroethane	83	13.012	1.3711	89036	100.000	94.59
S	44	4-bromofluorobenzene	95	13.127	1.3833	71684	150.000	107.69
	45	1,2,3-trichloropropane	110	13.201	1.3911	11997	100.000	96.34
	46	n-propylbenzene	91	13.295	1.4009	415237	100.000	97.57
	47	bromobenzene	156	13.416	1.413	72447	100.000	96.58
	48	1,3,5-trimethylbenzene	105	13.464	1.4181	290105	100.000	99.41
	49	2-chlorotoluene	126	13.558	1.4279	84411	100.000	98.61
	50	p-chlorotoluene	91	13.605	1.4328	256208	100.000	97.36
	51	tert-butylbenzene	119	13.903	1.4641	75x809	100.000	97.14
	52	1,2,4,-trimethylbenzene	105	13.98	1.4727	2x1804	100.000	98.35
	53	sec-butylbenzene	105	14.161	1.4918	376774	100.000	96.36
	54	p-isopropyltoluene	119	14.249	1.5009	3x2x7e	100.000	97.63
	55	1,3-dichlorobenzene	146	14.321	1.5085	160342	100.000	97.07
*	56	1,4-dichlorobenzene-d4	152	14.411	1.5179	13x1 e	150.000	
	57	1,4-dichlorobenzene	146	14.458	1.5229	159673	100.000	95.60
	58	n-butylbenzene	91	14.755	1.5537	3x1e0	100.000	98.47
S	59	1,2-dichlorobenzene-d4	152	15.013	1.5811	114x0e	100.000	100.05
	60	1,2-dichlorobenzene	146	15.028	1.5826	136490	100.000	94.87
	61	1,2-dibromo-3-chloropropane	75	16.049	1.6901	9396	100.000	85.60
	62	1,2,4-trichlorobenzene	180	17.105	1.8021	104729	100.000	96.25
	63	hexachlorobutadiene	225	17.196	1.8116	60331	100.000	95.31
	64	naphthalene	128	17.540	1.8482	143855	100.000	90.61
	65	1,2,3-trichlorobenzene	180	17.836	1.8794	94x1e	100.000	93.48
M	66	Xylene (total)	106			1309x7	300.00	

QC Flag Legend

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

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A01.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg,ical7597

Calibration Date: 13-DEC-2012
Calibration Time: 15:52

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

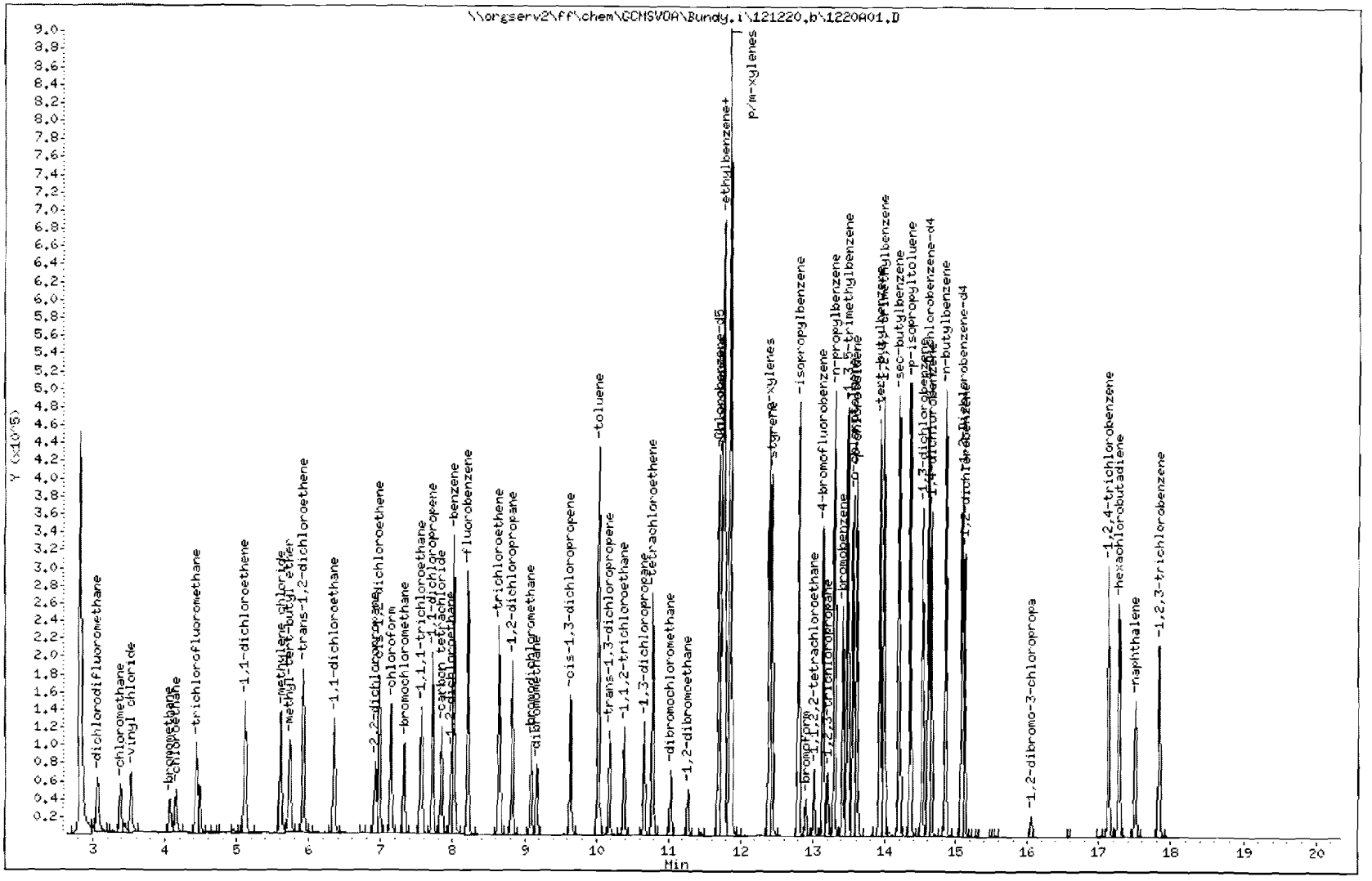
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	262564	131282	525128	257505	-1.93
34 Chlorobenzene-d5	253541	126771	507082	246648	-2.72
56 1,4-Dichlorobenze	139834	69917	279668	135773	-2.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D
Date : 20-DEC-2012 09:09
Client ID:
Sample Info: 524 CCV
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Alpha Analytical Labs

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\BFB1220A.D
Lab Smp Id:
Inj Date : 20-DEC-2012 08:25
Operator : kl Inst ID: Bundy.i
Smp Info : bfb tune (1ul dir inj)
Misc Info : 25 ng std
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\bfb.m
Meth Date : 06-Oct-2011 16:04 klongeneck Quant Type: ISTD
Cal Date : 22-JUN-1994 11:13 Cal File: 622c0101001.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
7.013	6.990	(0.000)	95	643[illegible]			100.00- 100.00	100.00
7.013	6.990	(0.000)	50	12[illegible]			15.00- 40.00	19.47
7.013	6.990	(0.000)	75	1996[illegible]			30.00- 60.00	46.57
7.013	6.990	(0.000)	96	0212			5.00- 9.00	6.55
7.013	6.990	(0.000)	173	161			0.00- 2.00	0.37
7.013	6.990	(0.000)	174	5[illegible]256			50.00- 100.00	91.44
7.013	6.990	(0.000)	175	4307			5.00- 9.00	7.48
7.013	6.990	(0.000)	176	5[illegible]400			95.00- 101.00	95.83
7.013	6.990	(0.000)	177	3[illegible]87			5.00- 9.00	6.36

Alpha Analytical Labs

TARGET COMPOUNDS

Client Name:
Lab Smp Id:
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: bfb
Data Type: MS DATA
Misc Info: 25 ng std

Client SDG: SDGa03020

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: kl

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	--------bfb	0.0	

Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\BFB1220A.D

Date : 20-DEC-2012 08:25

Client ID:

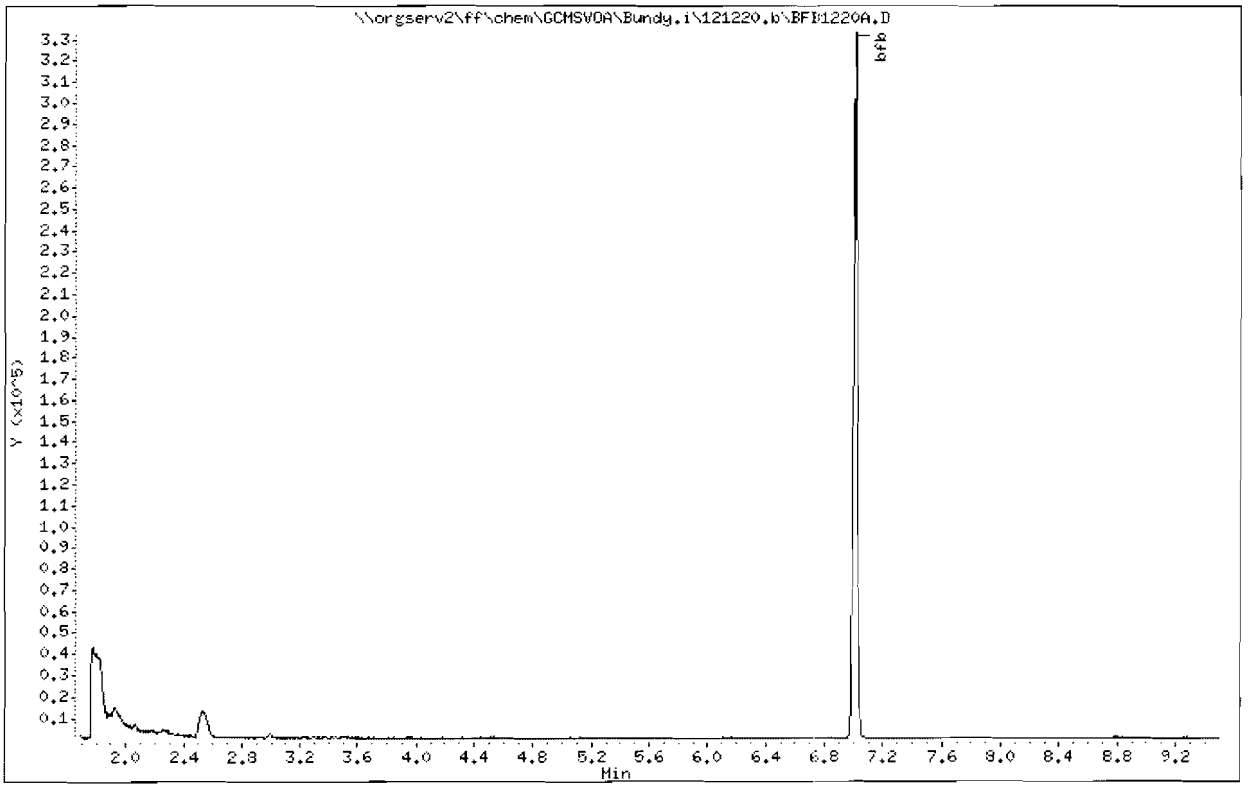
Instrument: Bundy.i

Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase:

Column diameter: 2.00



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\BFB1220A.D

Date : 20-DEC-2012 08:25

Client ID:

Instrument: Bundy.i

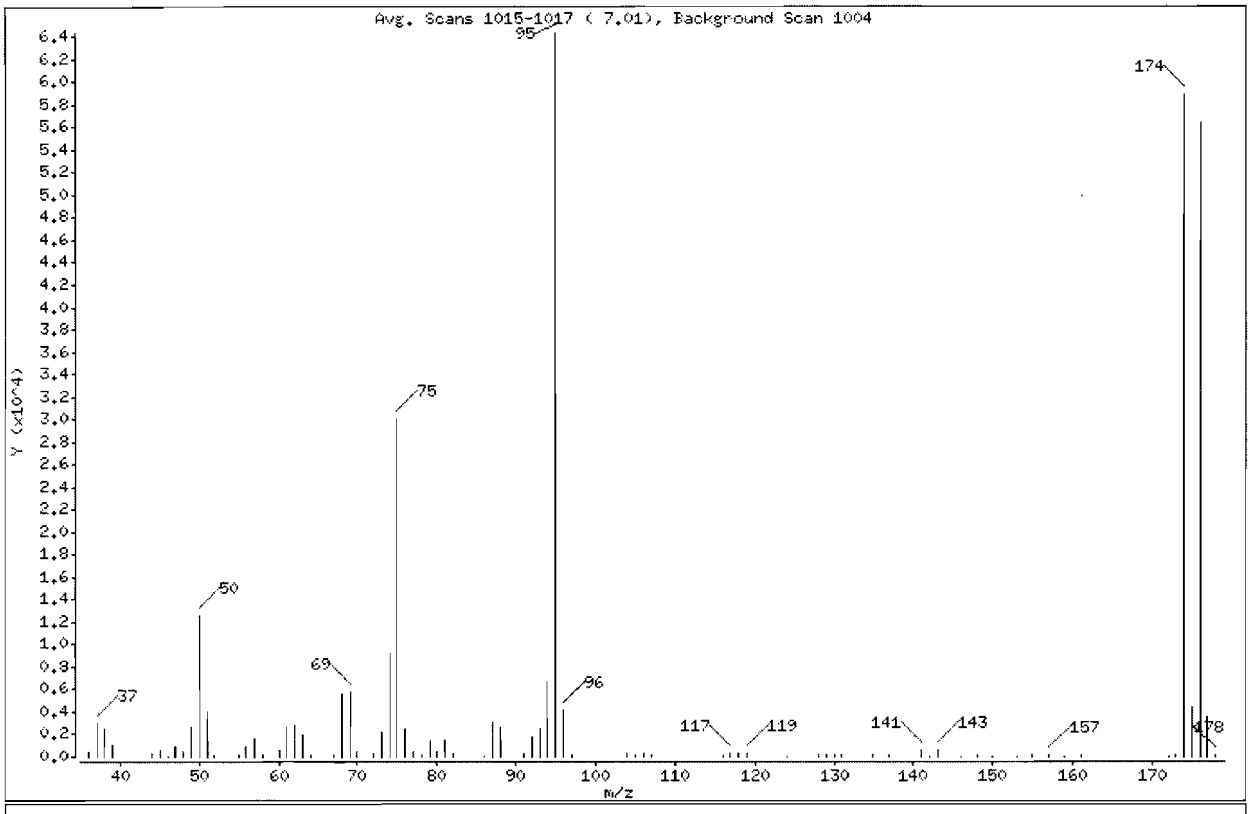
Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase:

Column diameter: 2.00

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	19.47
75	30.00 - 60.00% of mass 95	46.57
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.25 (0.27)
174	50.00 - 100.00% of mass 95	91.49
175	5.00 - 9.00% of mass 174	6.82 (7.45)
176	95.00 - 101.00% of mass 174	87.68 (95.83)
177	5.00 - 9.00% of mass 176	5.58 (6.36)

Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\BFB1220A.D

Date : 20-DEC-2012 08:25

Client ID:

Instrument: Bundy.i

Sample Info: bfb tune (1ul dir inj)

Operator: kl

Column phase:

Column diameter: 2.00

Data File: BFB1220A.D

Spectrum: Avg. Scans 1015-1017 (7.01), Background Scan 1004

Location of Maximum: 95.00

Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	501	64.00	190	93.00	2462	142.00	61
37.00	2962	67.00	185	94.00	6659	143.00	639
38.00	2543	68.00	5675	95.00	64328	146.00	53
39.00	995	69.00	5705	96.00	4212	148.00	148
44.00	238	70.00	478	97.00	172	150.00	62
45.00	540	72.00	366	104.00	246	153.00	49
46.00	17	73.00	2261	105.00	121	155.00	156
47.00	390	74.00	9140	106.00	252	157.00	188
48.00	371	75.00	29960	107.00	80	159.00	25
49.00	2627	76.00	2571	116.00	214	161.00	95
50.00	12523	77.00	452	117.00	313	172.00	49
51.00	4049	78.00	217	118.00	233	173.00	161
52.00	164	79.00	1299	119.00	253	174.00	58856
55.00	214	80.00	404	124.00	57	175.00	4387
56.00	885	81.00	1426	128.00	193	176.00	56400
57.00	1687	82.00	258	129.00	111	177.00	3587
58.00	79	86.00	26	130.00	172	178.00	113
60.00	535	87.00	3091	131.00	81		
61.00	2678	88.00	2699	135.00	108		
62.00	2777	91.00	229	137.00	89		
63.00	1986	92.00	1774	141.00	639		

Volatiles Raw QC Data

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A03.D
Lab Smp Id:
Inj Date : 20-DEC-2012 10:36
Operator : kl Inst ID: Bundy.i
Smp Info : wg580980-2,31,25
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT S C MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	dichlorodifluoromethane	85	Compound Not Detected.						
2	chloromethane	50	Compound Not Detected.						
3	vinyl chloride	62	Compound Not Detected.						
4	bromomethane	94	Compound Not Detected.						
5	chloroethane	64	Compound Not Detected.						
6	trichlorofluoromethane	101	Compound Not Detected.						
7	1,1-dichloroethene	96	Compound Not Detected.						
8	methylene chloride	84	Compound Not Detected.						
9	methyl-tert-butyl ether	73	Compound Not Detected.						
10	trans-1,2-dichloroethene	96	Compound Not Detected.						
11	1,1-dichloroethane	63	Compound Not Detected.						
12	2,2-dichloropropane	77	Compound Not Detected.						
13	cis-1,2-dichloroethene	96	Compound Not Detected.						
14	chloroform	83	Compound Not Detected.						
15	bromochloromethane	128	Compound Not Detected.						
16	1,1,1-trichloroethane	97	Compound Not Detected.						
17	1,1-dichloropropene	75	Compound Not Detected.						
18	carbon tetrachloride	117	Compound Not Detected.						
19	1,2-dichloroethane	62	Compound Not Detected.						
20	benzene	78	Compound Not Detected.						
* 21	fluorobenzene	96	6.174	6.204	1.000	14e+07	100.000		
22	trichloroethene	95	Compound Not Detected.						
23	1,2-dichloropropane	63	Compound Not Detected.						
24	dibromomethane	93	Compound Not Detected.						
25	bromodichloromethane	73	Compound Not Detected.						
26	cis-1,3-dichloropropene	75	Compound Not Detected.						
27	toluene	92	Compound Not Detected.						
28	trans-1,3-dichloropropene	75	Compound Not Detected.						
29	1,1,2-trichloroethane	97	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ug/Column	FINAL ug/l	REVIEW CODE
	30 1,3-dichloropropane	76	Compound Not Detected.						
	31 tetrachloroethene	166	Compound Not Detected.						
	32 dibromochloromethane	129	Compound Not Detected.						
	33 1,2-dibromoethane	107	Compound Not Detected.						
>	34 Chlorobenzene-d5	117	11.696	11.696	(1.000)	73937	150.000		
	35 chlorobenzene	112	Compound Not Detected.						
	36 ethylbenzene	91	Compound Not Detected.						
	37 1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	38 p/m-xylenes	106	Compound Not Detected.						
	39 o-xylenes	106	Compound Not Detected.						
	40 styrene	104	Compound Not Detected.						
	41 isopropylbenzene	105	Compound Not Detected.						
	42 bromoform	173	Compound Not Detected.						
	43 1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	44 4-Bromofluorobenzene	95	13.138	13.138	(1.000)	119677	153.302	102.50	
	45 1,2,3-trichloropropane	110	Compound Not Detected.						
	46 n-propylbenzene	91	Compound Not Detected.						
	47 bromobenzene	156	Compound Not Detected.						
	48 1,3,5-trimethylbenzene	105	Compound Not Detected.						
	49 2-chlorotoluene	126	Compound Not Detected.						
	50 4-chlorotoluene	91	Compound Not Detected.						
	51 tert-butylbenzene	119	Compound Not Detected.						
	52 1,2,4,-trimethylbenzene	105	Compound Not Detected.						
	53 sec-butylbenzene	105	Compound Not Detected.						
	54 p-isopropyltoluene	119	Compound Not Detected.						
	55 1,3-dichlorobenzene	146	Compound Not Detected.						
>	56 1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	55840	150.000		
	57 1,4-dichlorobenzene	146	Compound Not Detected.						
	58 n-butylbenzene	91	Compound Not Detected.						
S	59 1,2-Dichlorobenzene-d4	152	15.056	15.056	(1.031)	112118	96.4179	96.41	
	60 1,2-dichlorobenzene	146	Compound Not Detected.						
	61 1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	62 1,2,4-trichlorobenzene	180	Compound Not Detected.						
	63 hexachlorobutadiene	225	Compound Not Detected.						
	64 naphthalene	128	Compound Not Detected.						
	65 1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	66 Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A03.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	249497	-3.11
34 Chlorobenzene-d5	246648	123324	493296	239637	-2.84
56 1,4-Dichlorobenze	135773	67887	271546	135890	0.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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.

Alpha Analytical Labs

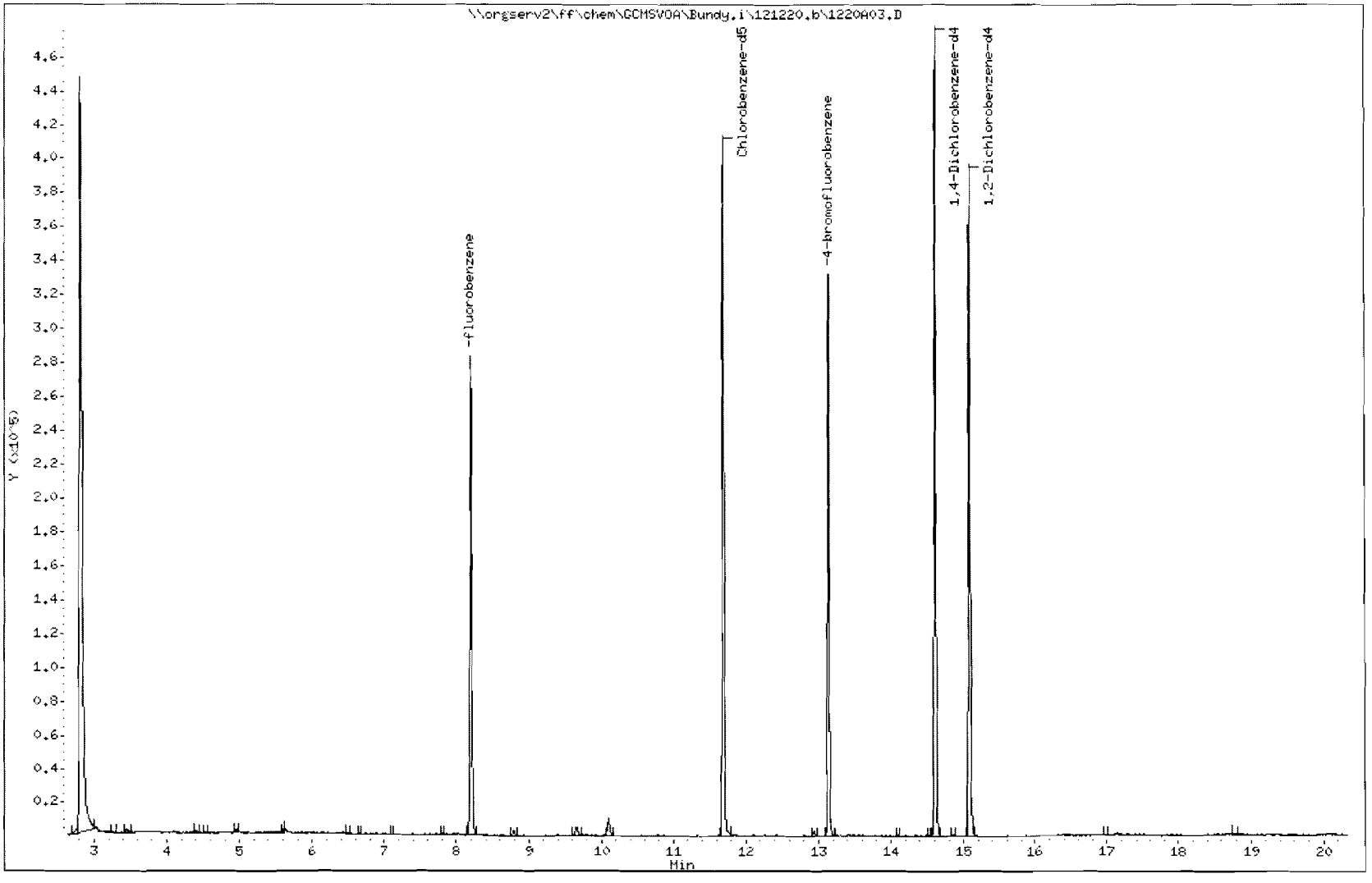
RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	102.30	102.30	80-120
$ 59 1,2-Dichlorobenzen	100.00	98.41	98.42	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A03.D
Date : 20-DEC-2012 10:36
Client ID:
Sample Info: wg580980-2,31,25
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D
Lab Smp Id:
Inj Date : 20-DEC-2012 09:09
Operator : kl Inst ID: Bundy.i
Smp Info : wg580980-1,31,25
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW JOURNAL
1 dichlorodifluoromethane	85	3.016	3.016	(0.541)	122179	99.5099	99.50	
2 chloromethane	50	3.276	3.276	(0.411)	74114	99.8411	99.84	
3 vinyl chloride	62	3.427	3.427	(0.424)	90144	101.432	101.43	
4 bromomethane	94	4.062	4.062	(0.499)	81154	117.526	117.52	
5 chloroethane	64	4.146	4.146	(0.509)	53770	101.096	101.09	
6 trichlorofluoromethane	101	4.425	4.425	(0.543)	102141	99.9671	99.96	
7 1,1-dichloroethene	96	5.111	5.111	(0.628)	62776	100.138	100.13	
8 methylene chloride	84	5.609	5.609	(0.689)	69794	98.4918	98.49	
9 methyl-tert-butyl ether	73	5.735	5.735	(0.704)	115342	100.811	100.81	
10 trans-1,2-dichloroethene	96	5.938	5.938	(0.730)	62036	100.730	100.73	
11 1,1-dichloroethane	63	6.348	6.348	(0.779)	133065	100.054	100.05	
12 2,2-dichloropropane	77	6.529	6.529	(0.802)	82343	99.1914	99.19	
13 cis-1,2-dichloroethene	96	6.917	6.917	(0.850)	71655	99.5594	99.55	
14 chloroform	83	7.035	7.035	(0.864)	113269	98.7067	98.70	
15 bromochloromethane	128	7.324	7.324	(0.899)	26496	100.352	100.35	
16 1,1,1-trichloroethane	97	7.560	7.560	(0.928)	90751	97.6090	97.60	
17 1,1-dichloropropene	75	7.717	7.712	(0.948)	75496	99.7432	99.74	
18 carbon tetrachloride	117	7.837	7.837	(0.963)	77787	95.7578	95.75	
19 1,2-dichloroethane	62	7.968	7.968	(0.979)	71054	97.7609	97.76	
20 benzene	78	8.010	8.010	(0.984)	208765	99.9405	99.94	
* 21 fluorobenzene	96	8.204	8.204	(1.000)	193505	100.00		
22 trichloroethene	130	8.834	8.834	(1.086)	75036	99.9578	99.95	
23 1,2-dichloropropane	63	8.918	8.918	(1.096)	75064	99.6778	99.67	
24 dibromomethane	93	9.080	9.080	(1.116)	45263	99.0346	99.03	
25 bromodichloromethane	83	9.164	9.164	(1.126)	17912	100.309	100.30	
26 cis-1,3-dichloropropene	75	9.636	9.636	(1.184)	87711	99.7203	99.72	
27 toluene	92	10.024	10.024	(1.232)	107961	100.688	100.68	
28 trans-1,3-dichloropropene	75	10.176	10.176	(1.250)	56704	99.8575	99.85	

		Compounds	Quant Ion	RT	Exp RT	Rel RT	Response	Concentrations On-Column ug/l	Concentrations Final ug/L	Review Comment
	29	1,1,1,2-tetrachloroethane	131	10.580	10.580	1.2650	52410	97.9449	95.04	
	30	1,3-dichloropropane	76	10.663	10.663	1.3000	67874	96.6705	96.07	
	31	tetrachloroethene	164	10.751	10.734	1.3100	41356	101.371	101.37	
	32	dibromochloromethane	129	11.030	11.020	1.3440	66432	91.1821	91.18	
	33	1,2-dibromoethane	107	11.270	11.272	1.3843	45926	94.1154	94.20	
*	34	Chlorobenzene-d5	117	11.696	11.696	1.000	384548	150.000		
	35	chlorobenzene	111	11.713	11.743	1.0041	401016	96.6036	96.60	
	36	ethylbenzene	91	11.770	11.770	1.0076	389170	98.8716	98.87	
	37	1,1,1,2-tetrachloroethane	131	11.775	11.775	1.0080	46538	98.8885	98.88	
	38	p/m-xylenes	106	11.954	11.954	1.0230	975819	201.436	201.40	
	39	o-xylenes	106	12.394	12.394	1.0606	393515	99.6181	99.61	
	40	Styrene	104	12.430	12.430	1.0636	216010	97.9110	97.91	
	41	isopropylbenzene	105	12.805	12.805	1.0956	459140	96.9117	96.91	
	42	bromoform	173	12.903	12.922	1.1043	17455	98.2448	98.24	
	43	1,1,2,2-tetrachloroethane	83	13.012	13.012	1.1135	39054	94.5815	94.59	
S	44	4-bromofluorobenzene	95	13.138	13.138	1.1243	130644	102.690	102.69	
	45	1,2,3-trichloropropane	110	13.201	13.201	1.1297	14307	98.5902	98.24	
	46	n-propylbenzene	91	12.795	12.795	1.1247	481237	97.5219	97.52	
	47	bromobenzene	156	13.416	13.416	1.1479	73447	96.5240	96.58	
	48	1,3,5-trimethylbenzene	105	13.484	13.484	1.1538	369741	98.4191	98.41	
	49	o-chlorotoluene	126	13.508	13.665	1.1559	64411	98.0172	98.02	
	50	p-chlorotoluene	91	13.605	13.605	1.1643	215408	97.5407	97.54	
	51	tert-butylbenzene	119	13.920	13.930	1.1916	370892	97.2489	97.24	
	52	1,2,4,-trimethylbenzene	105	13.961	13.961	1.1951	418284	98.8315	98.83	
	53	sec-butylbenzene	105	14.134	14.134	1.2099	574714	97.1825	97.18	
	54	p-isopropyltoluene	119	14.349	14.349	1.2277	362216	97.6342	97.63	
	55	1,3-dichlorobenzene	146	14.523	14.528	1.2430	161341	98.0711	98.07	
*	56	1,4-Dichlorobenzene-d4	152	14.611	14.611	1.000	73857	100.000		
	57	1,4-dichlorobenzene	146	14.653	14.653	1.1078	159673	97.6920	97.69	
	58	n-butylbenzene	91	14.855	14.855	1.1078	147402	96.4725	96.47	
S	59	1,2-dichlorobenzene-d4	152	15.083	15.083	1.1313	114416	100.451	100.00	
	60	1,2-dichlorobenzene	146	15.120	15.120	1.1340	153857	94.3767	94.37	
	61	1,2-dibromo-3-chloropropane	75	16.048	16.048	1.0990	13266	98.6902	98.69	
	62	1,2,4-trichlorobenzene	180	17.175	17.175	1.1772	174929	96.3521	96.35	
	63	hexachlorobutadiene	225	17.230	17.230	1.1809	65301	95.9101	95.91	
	64	naphthalene	128	17.500	17.500	1.1998	439249	98.8089	98.81	
	65	1,2,3-trichlorobenzene	180	17.626	17.636	1.2084	84747	95.4819	95.48	
M	66	Xylene (total)	106				1369277	301.172	301.12	

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A01.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	257505	0.00
34 Chlorobenzene-d5	246648	123324	493296	246648	0.00
56 1,4-Dichlorobenze	135773	67887	271546	135773	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: LCS
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

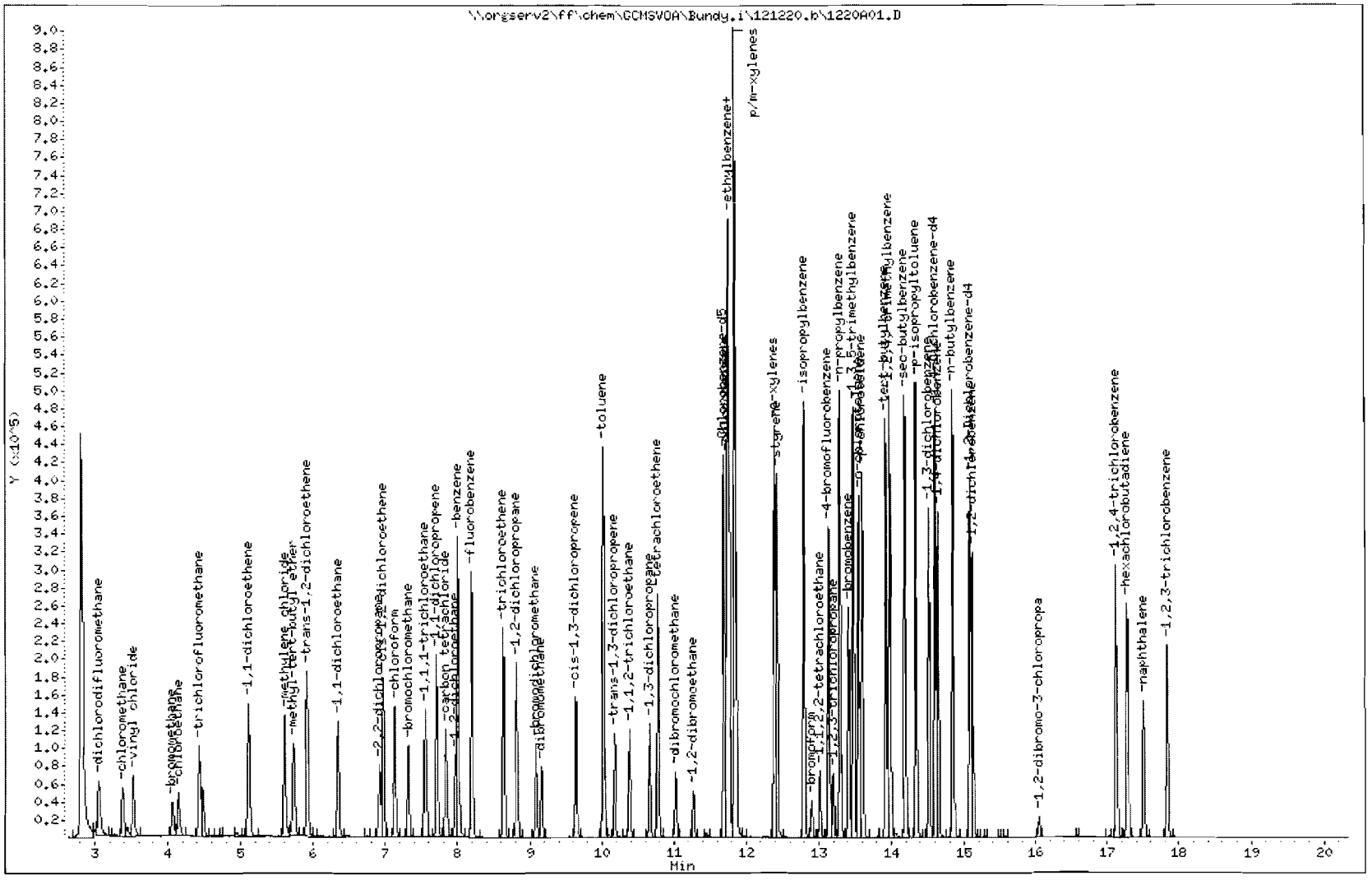
SPIKE COMPOUND	CONC ADDED ngs	CONC RECOVERED ngs	% RECOVERED	LIMITS
1 dichlorodifluorome	100.00	99.50	99.51	70-130
2 chloromethane	100.00	88.09	88.09	70-130
3 vinyl chloride	100.00	101.42	101.42	70-130
4 bromomethane	100.00	117.52	117.53	70-130
5 chloroethane	100.00	101.08	101.09	70-130
6 trichlorofluoromet	100.00	99.96	99.97	70-130
7 1,1-dichloroethene	100.00	100.13	100.14	70-130
8 methylene chloride	100.00	95.49	95.49	70-130
9 methyl-tert-butyl	100.00	105.81	105.81	70-130
10 trans-1,2-dichloro	100.00	100.72	100.73	70-130
11 1,1-dichloroethane	100.00	100.05	100.05	70-130
12 2,2-dichloropropan	100.00	90.29	90.29	70-130
13 cis-1,2-dichloroet	100.00	99.55	99.56	70-130
14 chloroform	100.00	98.70	98.71	70-130
15 bromochloromethane	100.00	100.85	100.85	70-130
16 1,1,1-trichloroeth	100.00	97.90	97.91	70-130
17 1,1-dichloropropen	100.00	97.74	97.74	70-130
18 carbon tetrachlori	100.00	93.55	93.56	70-130
19 1,2-dichloroethane	100.00	97.76	97.76	70-130
20 benzene	100.00	99.94	99.94	70-130
22 trichloroethene	100.00	99.25	99.26	70-130
23 1,2-dichloropropan	100.00	98.67	98.68	70-130
24 bromodichlorometha	100.00	92.03	92.03	70-130
25 dibromomethane	100.00	100.30	100.31	70-130
26 cis-1,3-dichloropr	100.00	93.72	93.72	70-130
27 toluene	100.00	100.68	100.69	70-130
28 trans-1,3-dichloro	100.00	87.28	87.28	70-130
29 1,1,2-trichloroeth	100.00	97.94	97.94	70-130
30 1,3-dichloropropan	100.00	96.67	96.68	70-130
31 tetrachloroethene	100.00	101.37	101.37	70-130
32 dibromochlorometha	100.00	91.13	91.13	70-130
33 1,2-dibromoethane	100.00	94.20	94.20	70-130
35 chlorobenzene	100.00	98.60	98.60	70-130
37 1,1,1,2-tetrachlor	100.00	95.66	95.67	70-130
36 ethylbenzene	100.00	98.87	98.87	70-130
38 p/m-xylenes	200.00	201.40	100.70	70-130
39 o-xylenes	100.00	99.61	99.62	70-130
40 styrene	100.00	99.81	99.82	70-130
41 isopropylbenzene	100.00	98.91	98.91	70-130
42 bromoform	100.00	83.24	83.24	70-130

	SPIKE COMPOUND	CONC ADDED ngs	CONC RECOVERED ngs	% RECOVERED	LIMITS
	43 1,1,2,2-tetrachlor	100.00	94.59	94.59	70-130
	45 1,2,3-trichloropro	100.00	99.34	99.34	70-130
	46 n-propylbenzene	100.00	97.32	97.32	70-130
	47 bromobenzene	100.00	96.58	96.58	70-130
	48 1,3,5-trimethylben	100.00	98.41	98.42	70-130
	49 o-chlorotoluene	100.00	98.61	98.62	70-130
	50 p-chlorotoluene	100.00	97.36	97.37	70-130
	51 tert-butylbenzene	100.00	97.14	97.15	70-130
	52 1,2,4,-trimethylbe	100.00	98.33	98.34	70-130
	53 sec-butylbenzene	100.00	98.26	98.26	70-130
	54 p-isopropyltoluene	100.00	97.63	97.63	70-130
	55 1,3-dichlorobenzen	100.00	98.07	98.07	70-130
	57 1,4-dichlorobenzen	100.00	95.68	95.68	70-130
	58 n-butylbenzene	100.00	96.47	96.47	70-130
	60 1,2-dichlorobenzen	100.00	94.87	94.88	70-130
	61 1,2-dibromo-3-chlo	100.00	88.68	88.68	70-130
	62 1,2,4-trichloroben	100.00	96.35	96.35	70-130
	63 hexachlorobutadien	100.00	95.91	95.92	70-130
	64 naphthalene	100.00	90.62	90.63	70-130
	65 1,2,3-trichloroben	100.00	93.46	93.46	70-130
M	66 Xylene (total)	300.00	301.02	100.34	70-130

	SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$	44 4-bromofluorobenze	100.00	102.69	102.70	80-120
$	59 1,2-Dichlorobenzen	100.00	100.65	100.65	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D
Date : 20-DEC-2012 09:09
Client ID:
Sample Info: wg580980-1,31,25
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

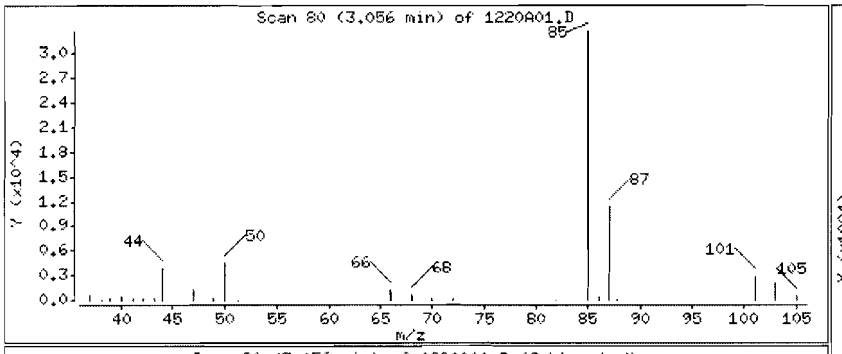
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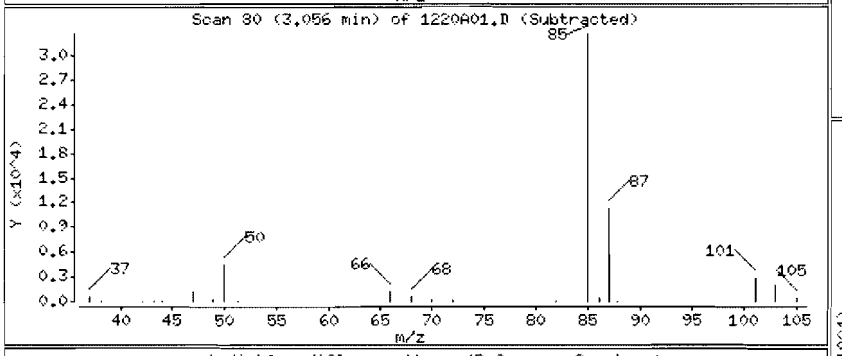
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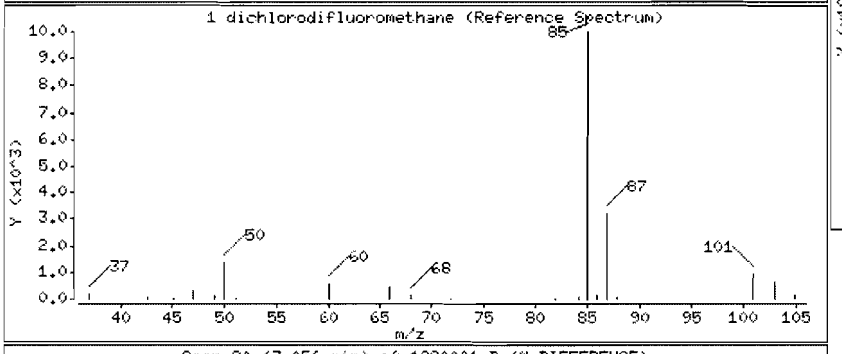
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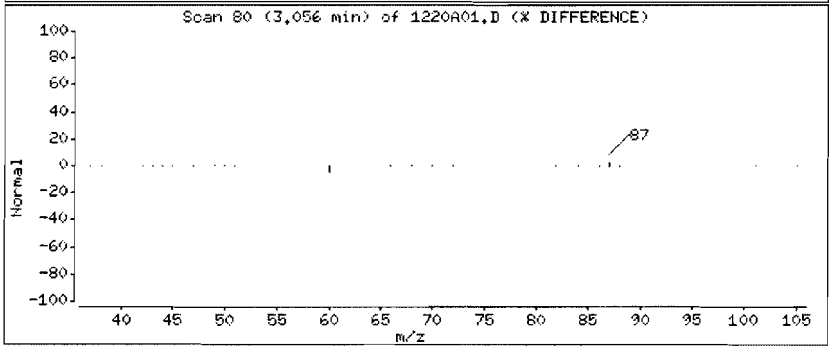
1 dichlorodifluoromethane

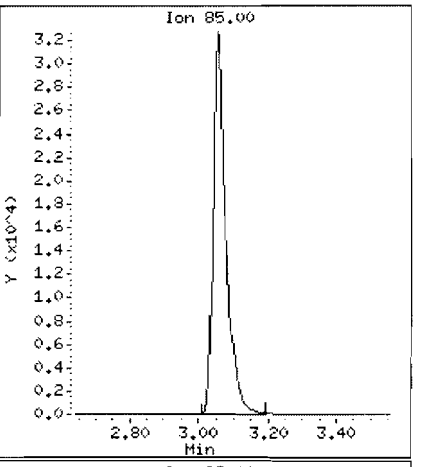
Concentration: 99.50 ngs

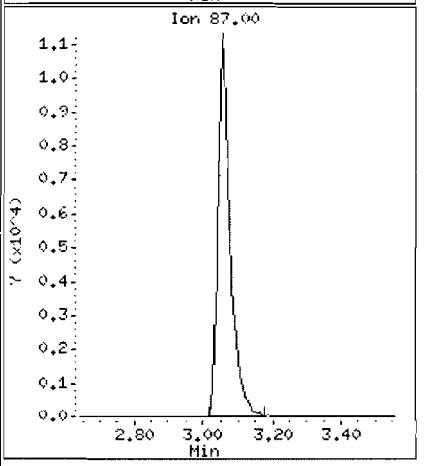












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Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

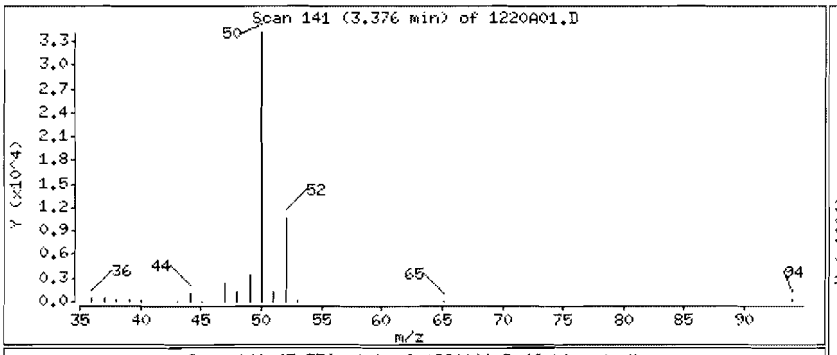
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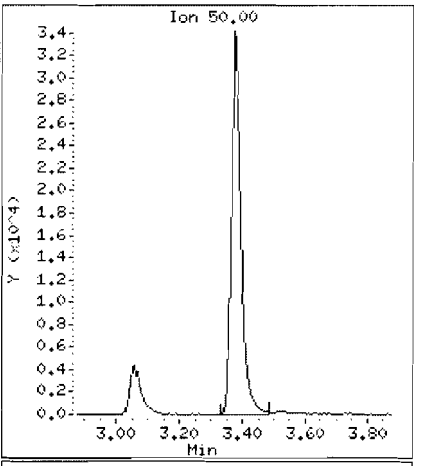
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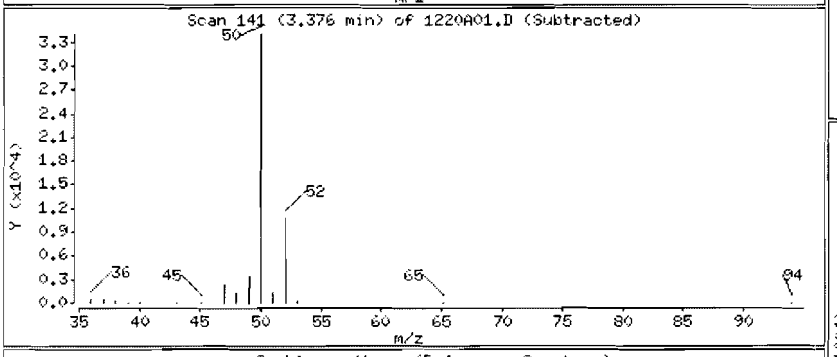
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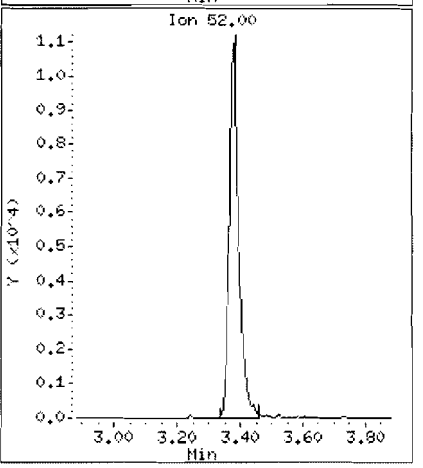
2 chloromethane

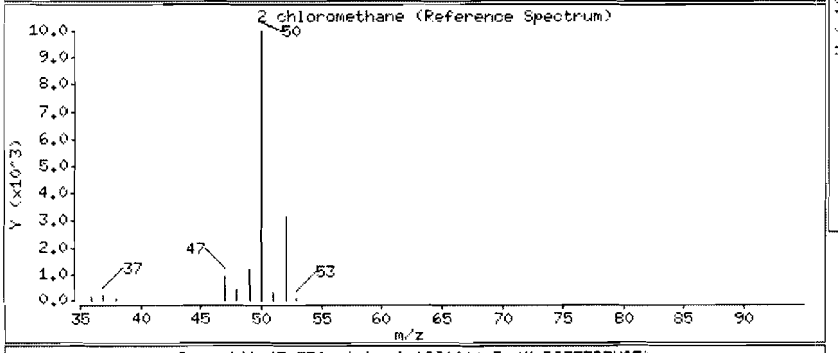
Concentration: 88.09 ngs

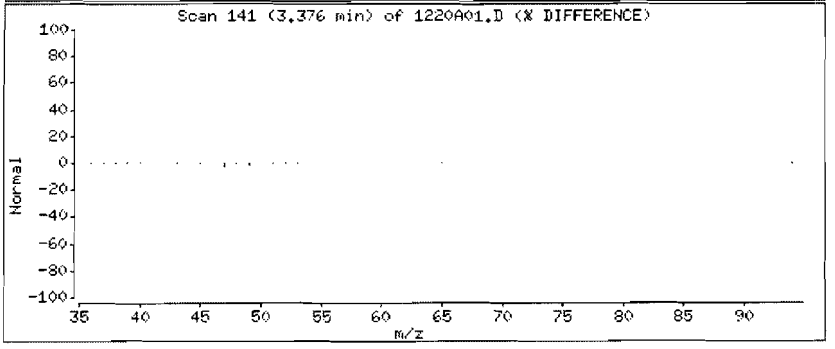












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Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

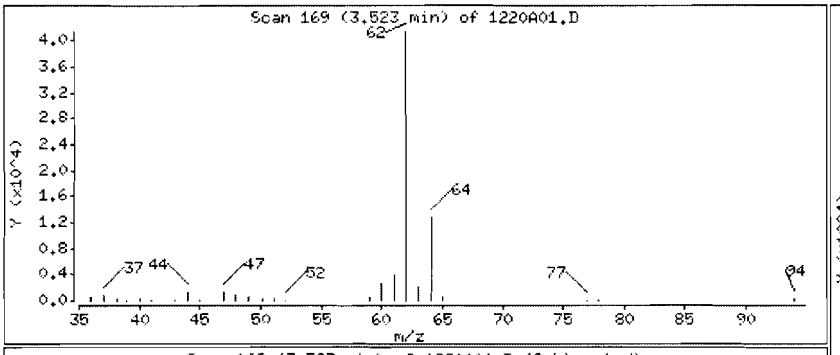
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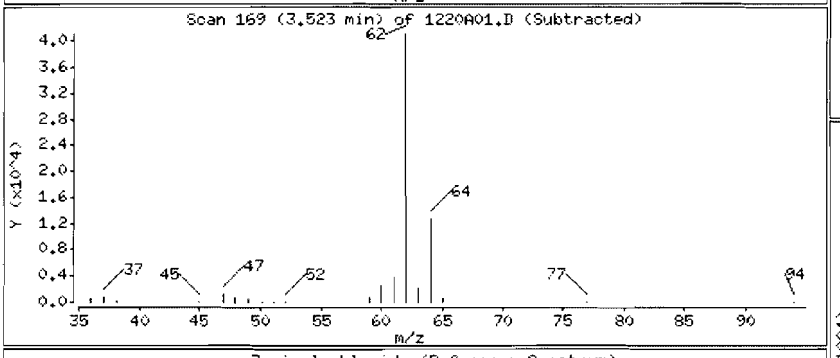
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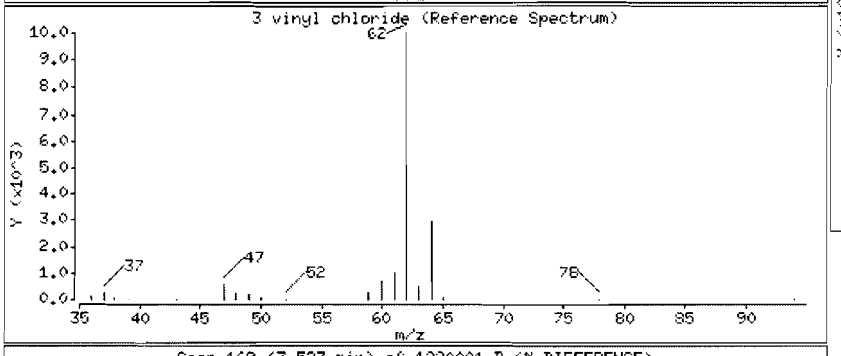
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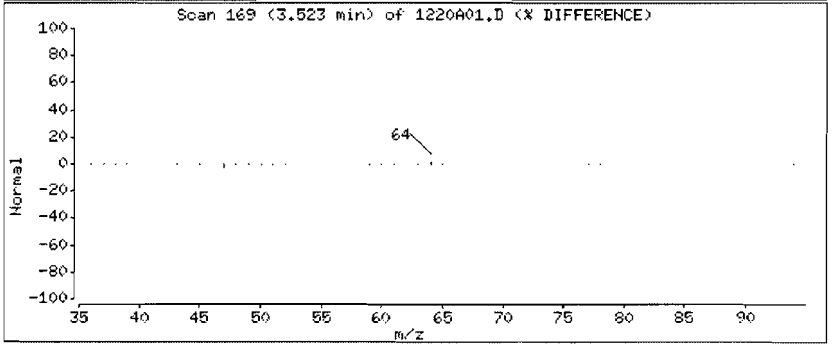
3 vinyl chloride

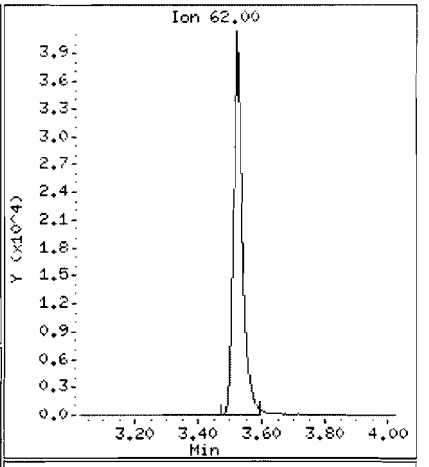
Concentration: 101.42 ngs

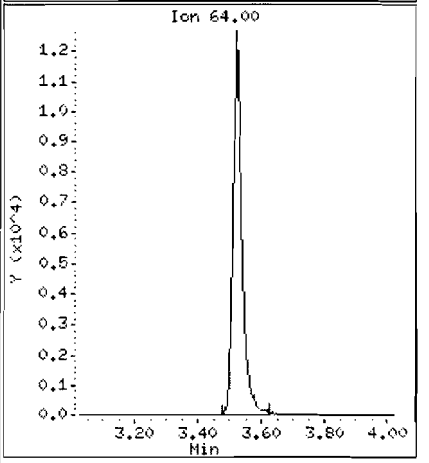












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

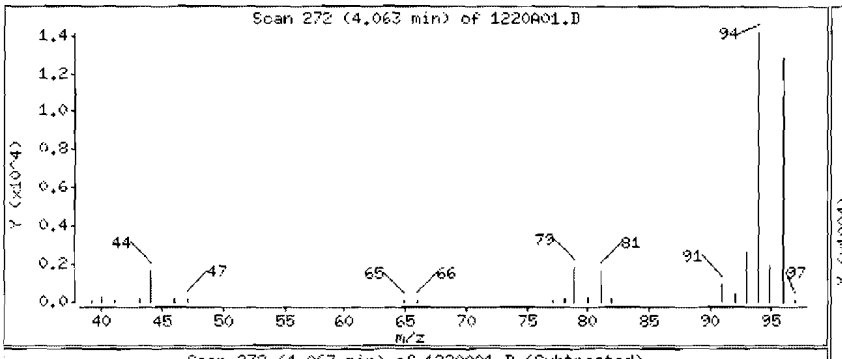
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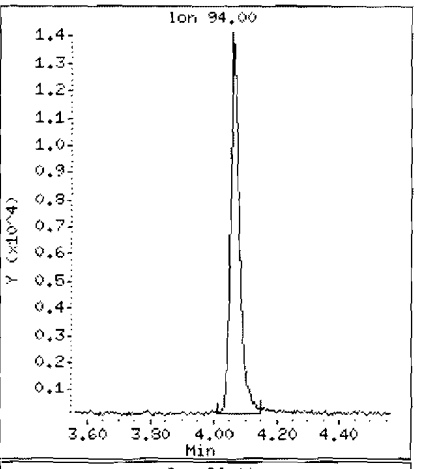
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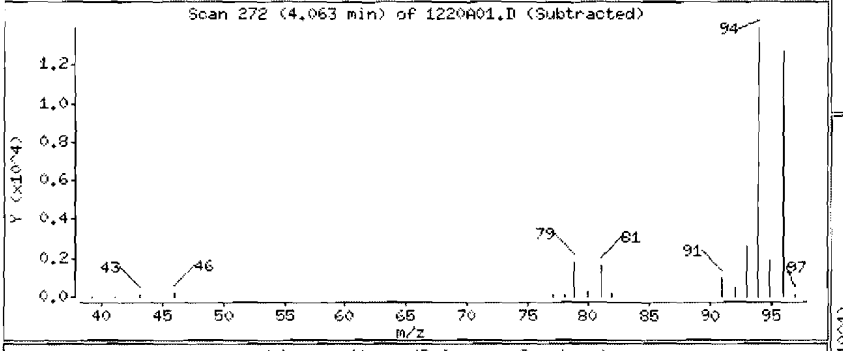
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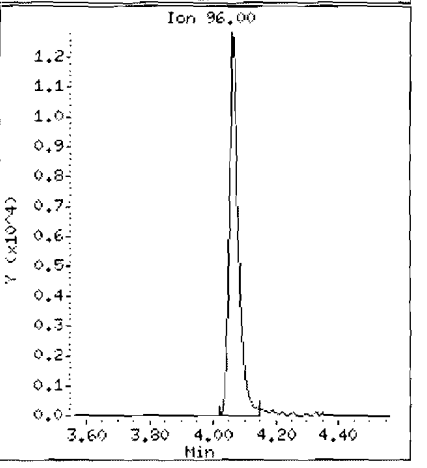
4 bromomethane

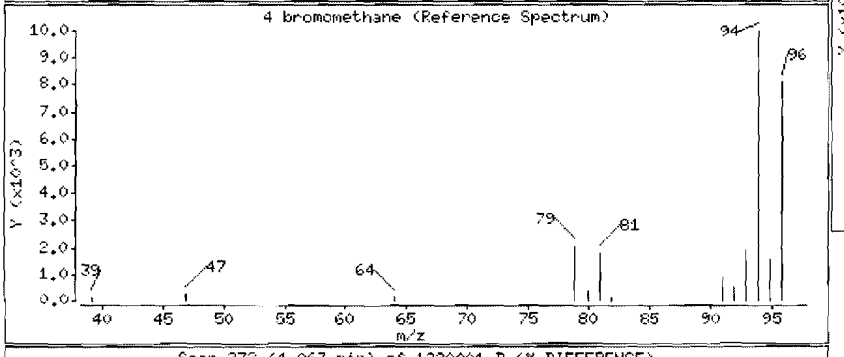
Concentration: 117.52 ngs

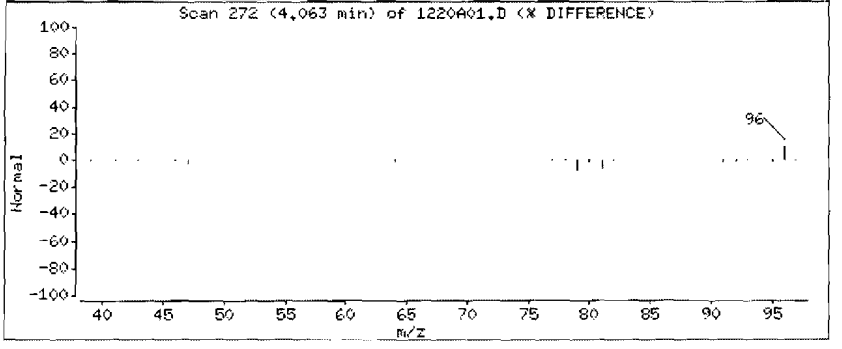












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

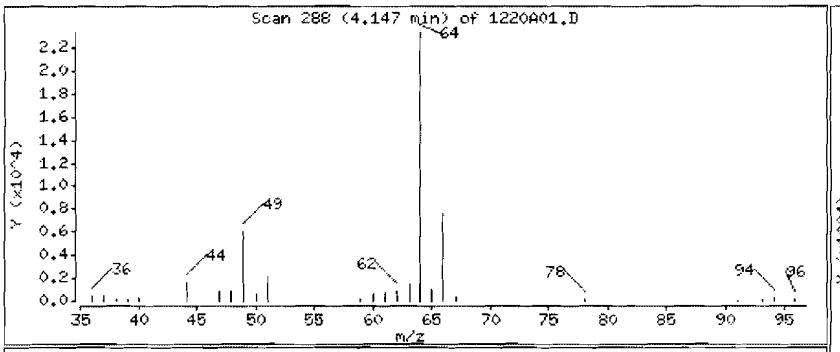
Operator: kl

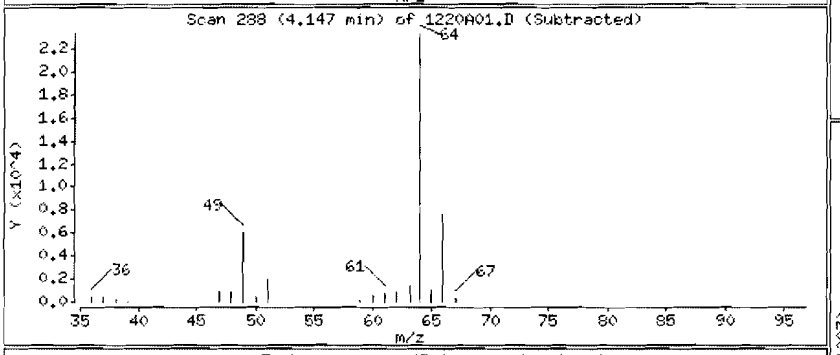
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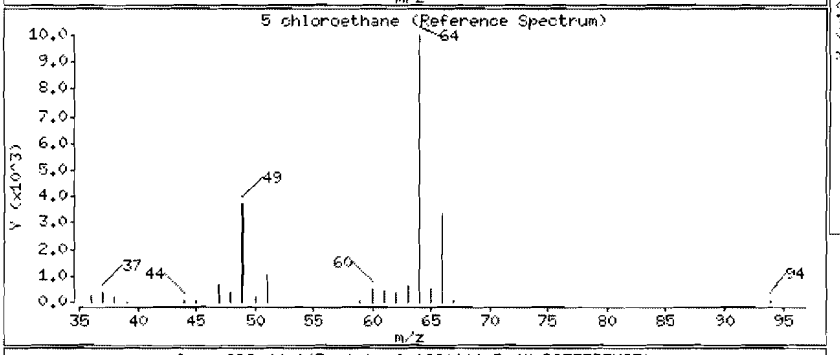
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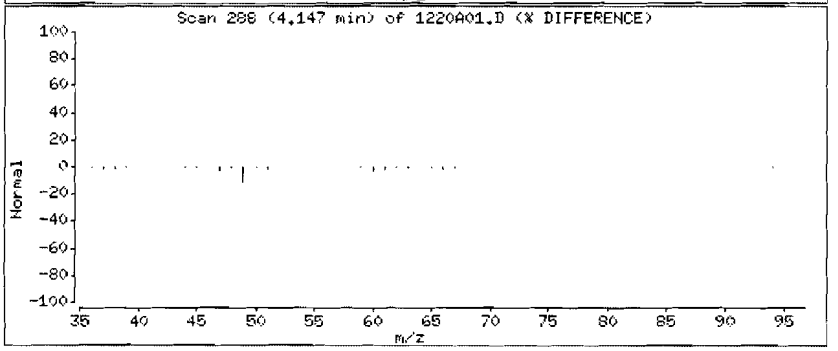
5 chloroethane

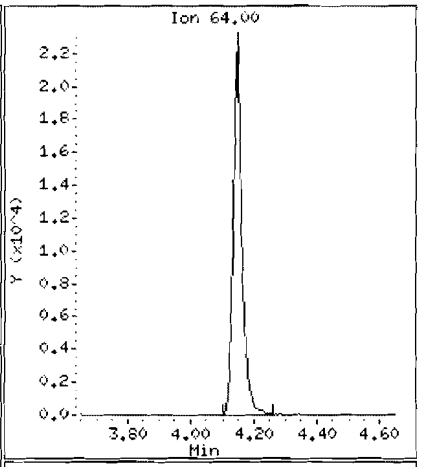
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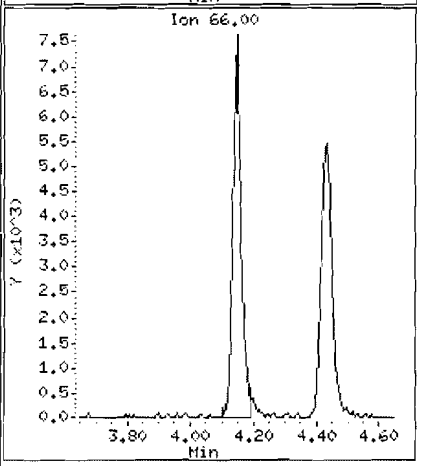












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

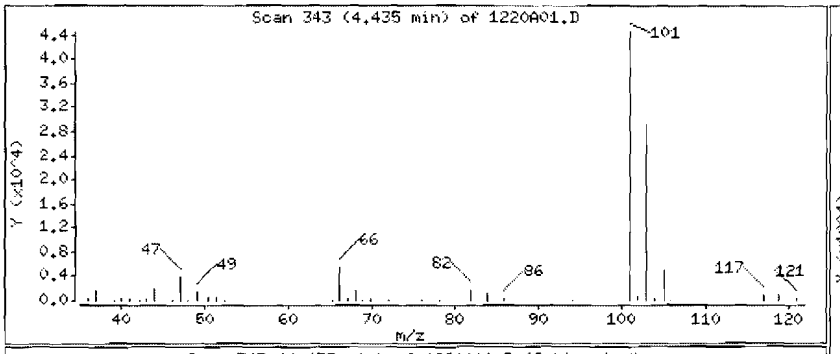
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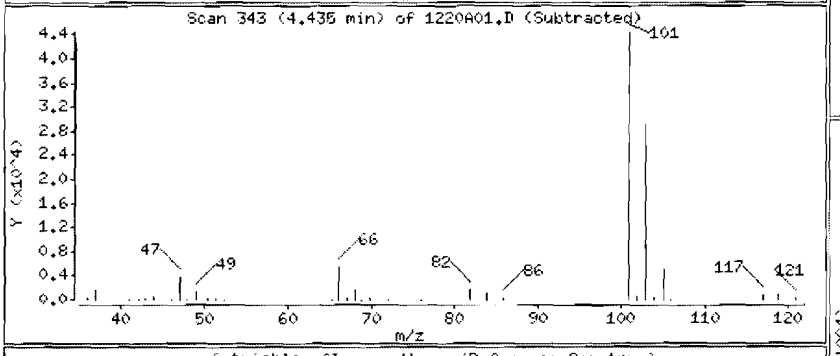
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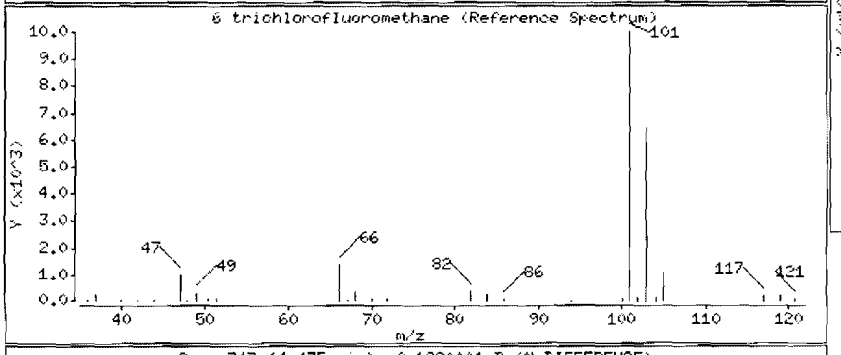
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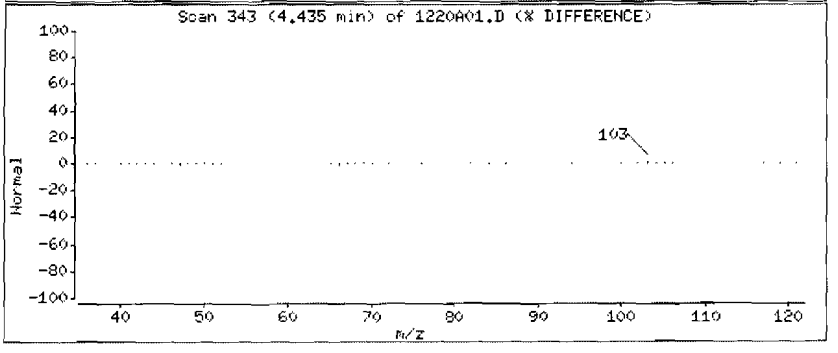
6 trichlorofluoromethane

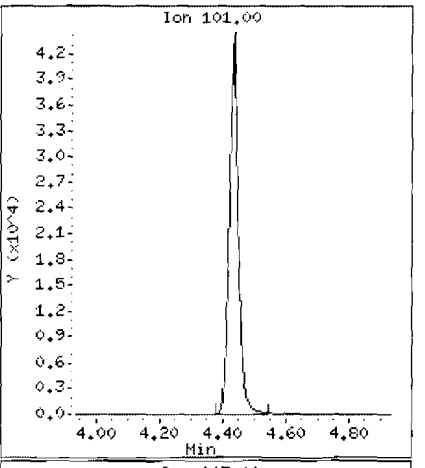
Concentration: 99.96 ngs

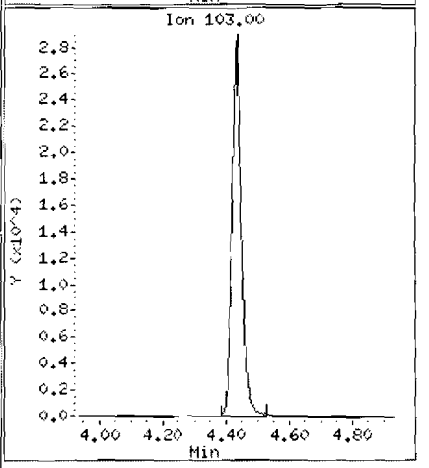












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

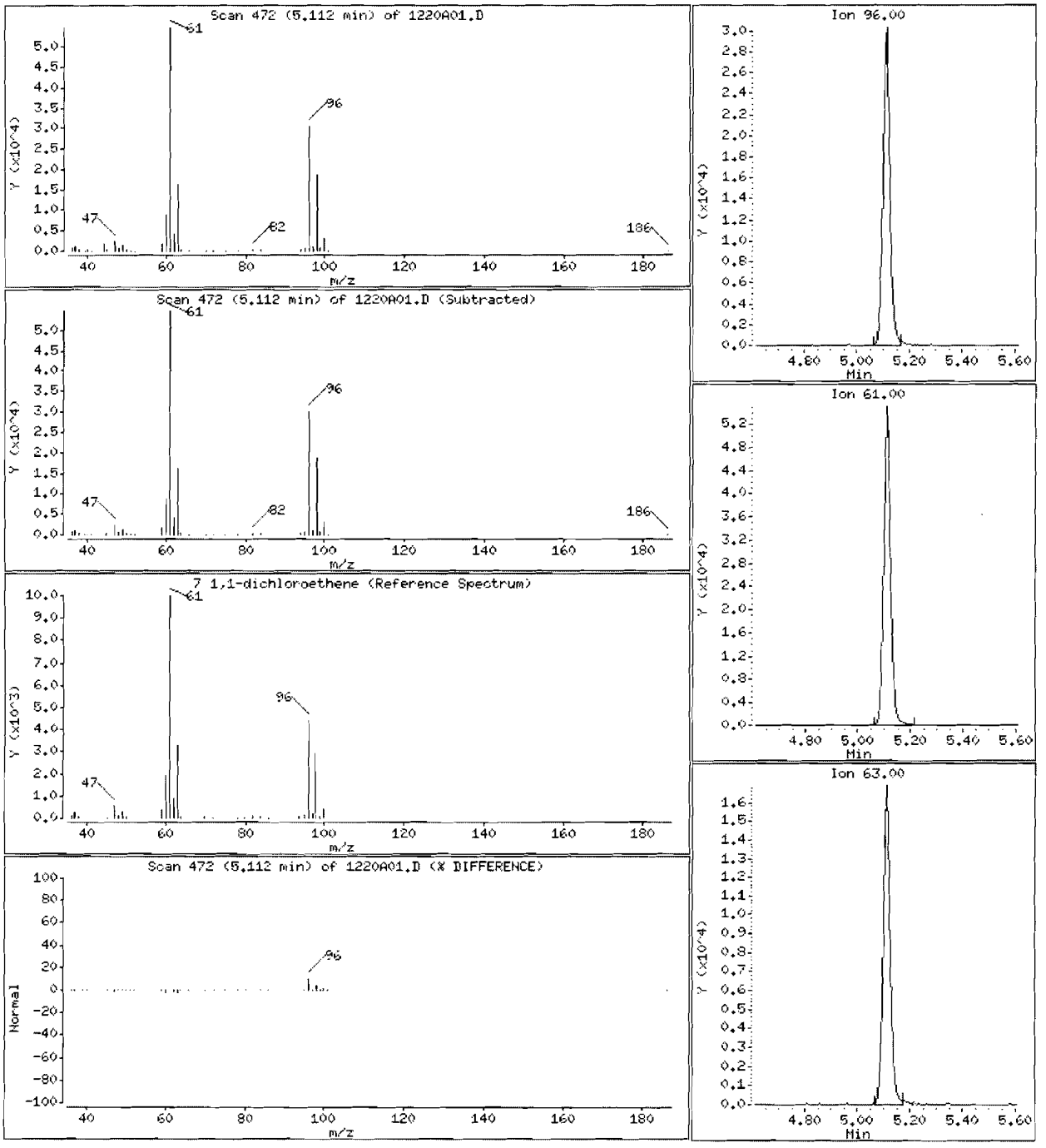
Operator: kl

Column phase:

Column diameter: 0.18

7 1,1-dichloroethene

Concentration: 100.13 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

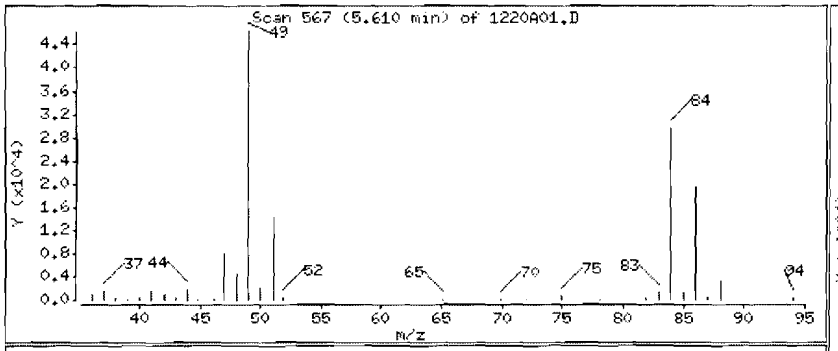
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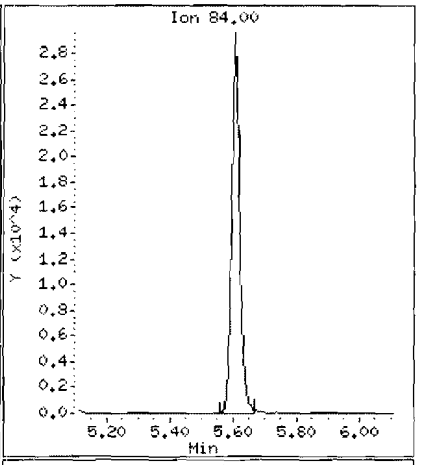
Column phase:

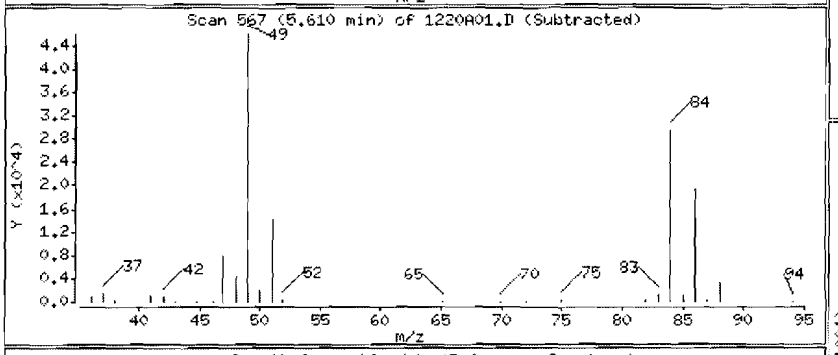
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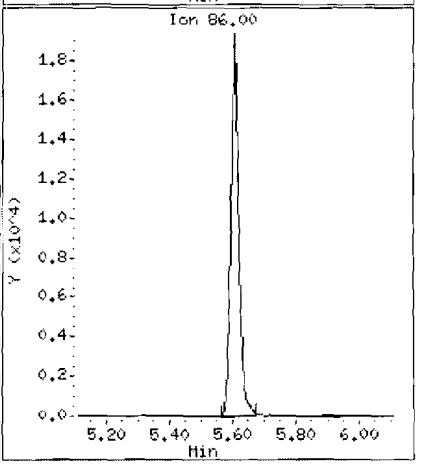
8 methylene chloride

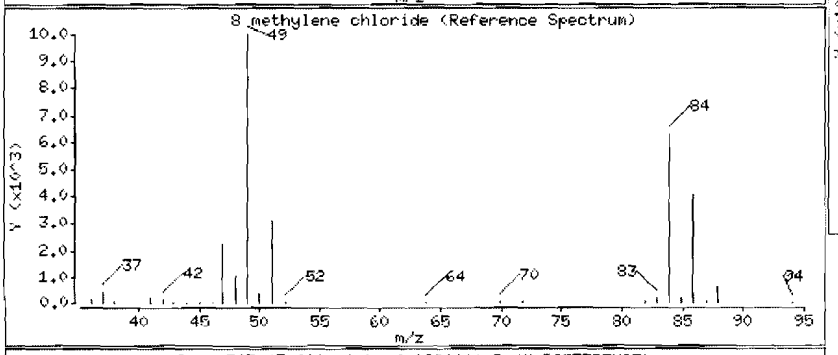
Concentration: 95.49 ngs

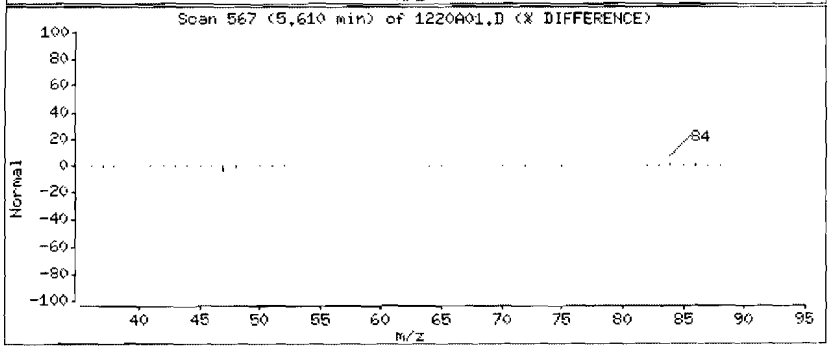












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

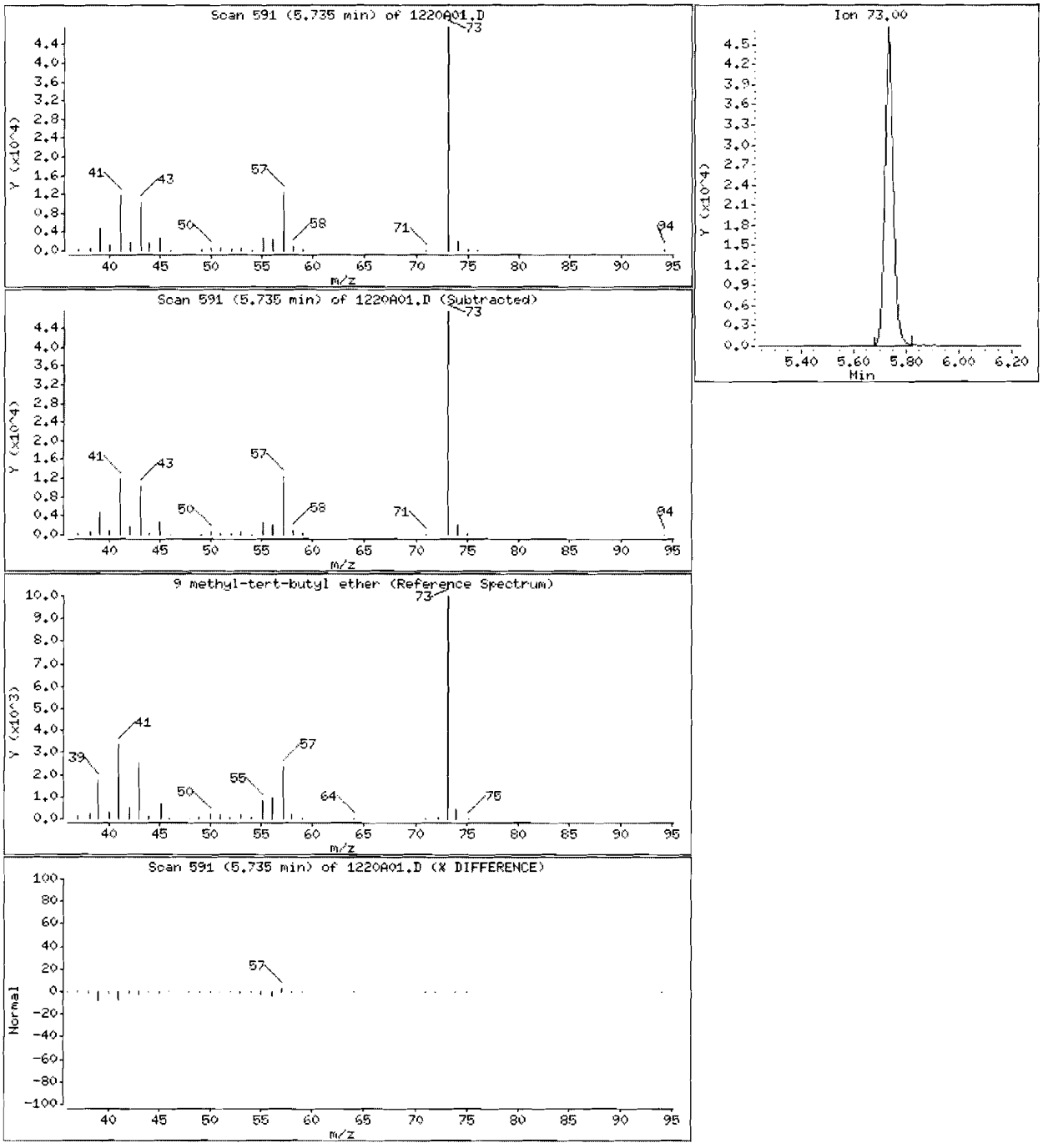
Operator: kl

Column phase:

Column diameter: 0.18

9 methyl-tert-butyl ether

Concentration: 105.81 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

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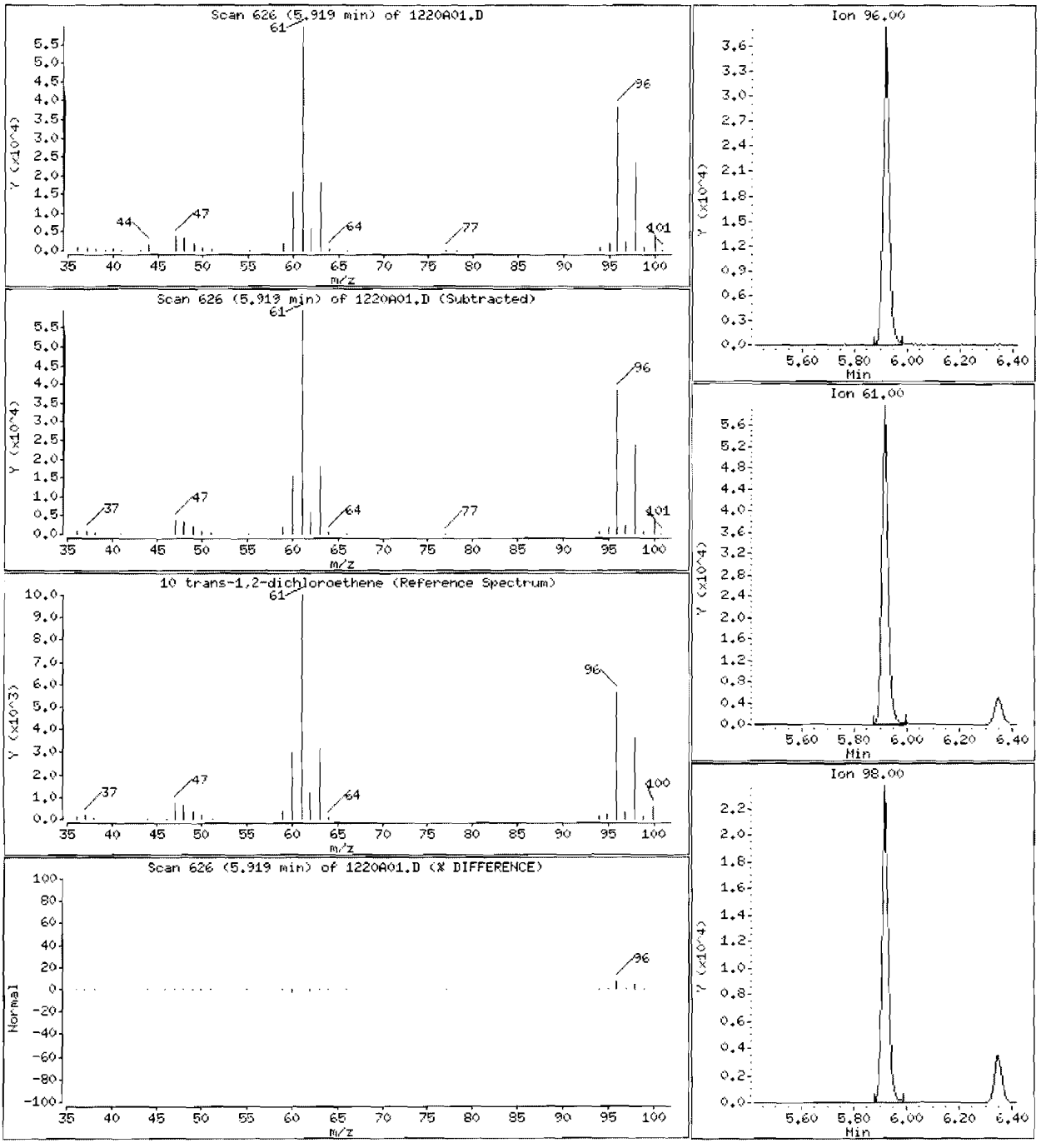
Operator: kl

Column phase:

Column diameter: 0.18

10 trans-1,2-dichloroethene

Concentration: 100.72 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

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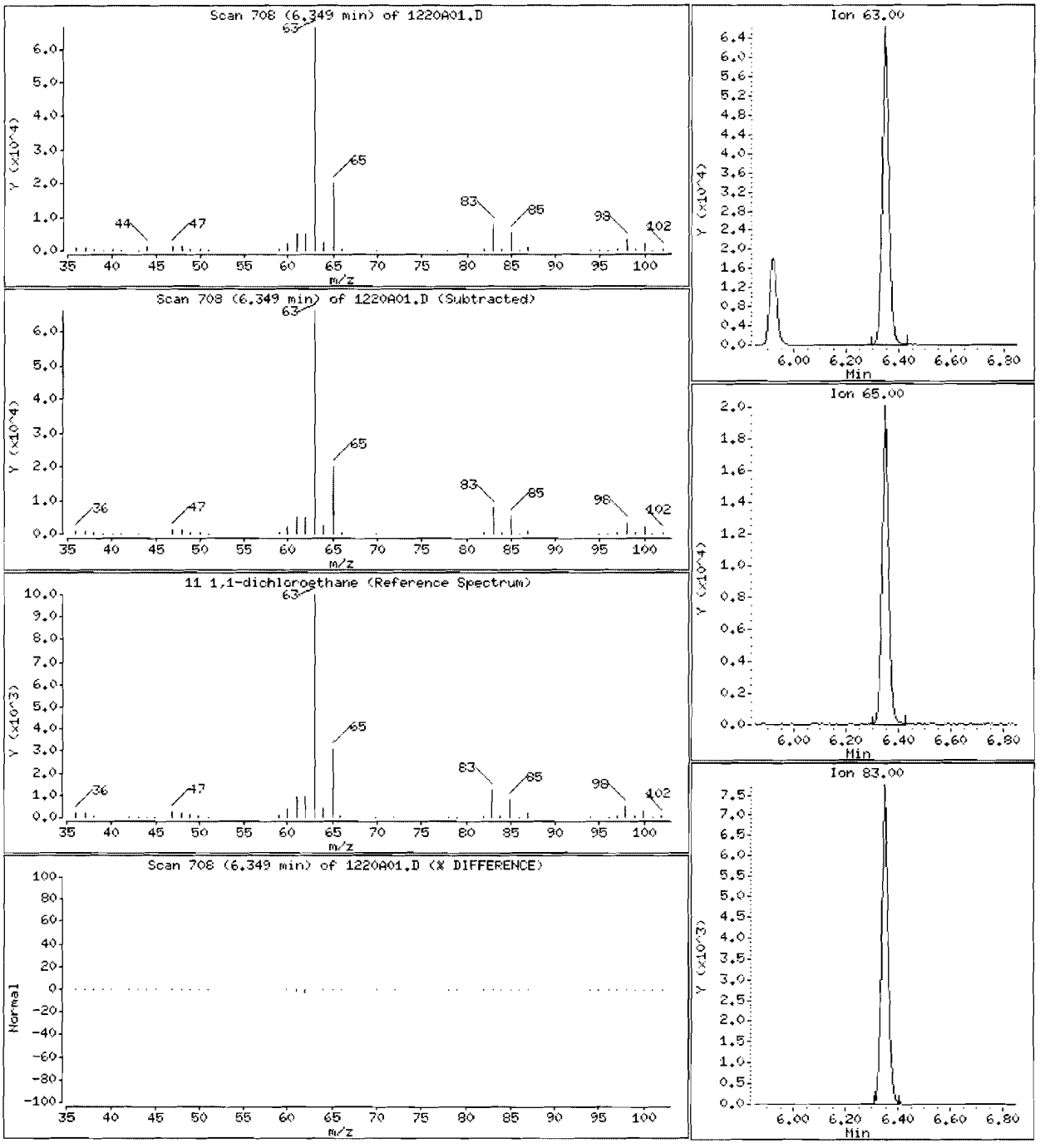
Operator: kl

Column phase:

Column diameter: 0.18

11 1,1-dichloroethane

Concentration: 100.05 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

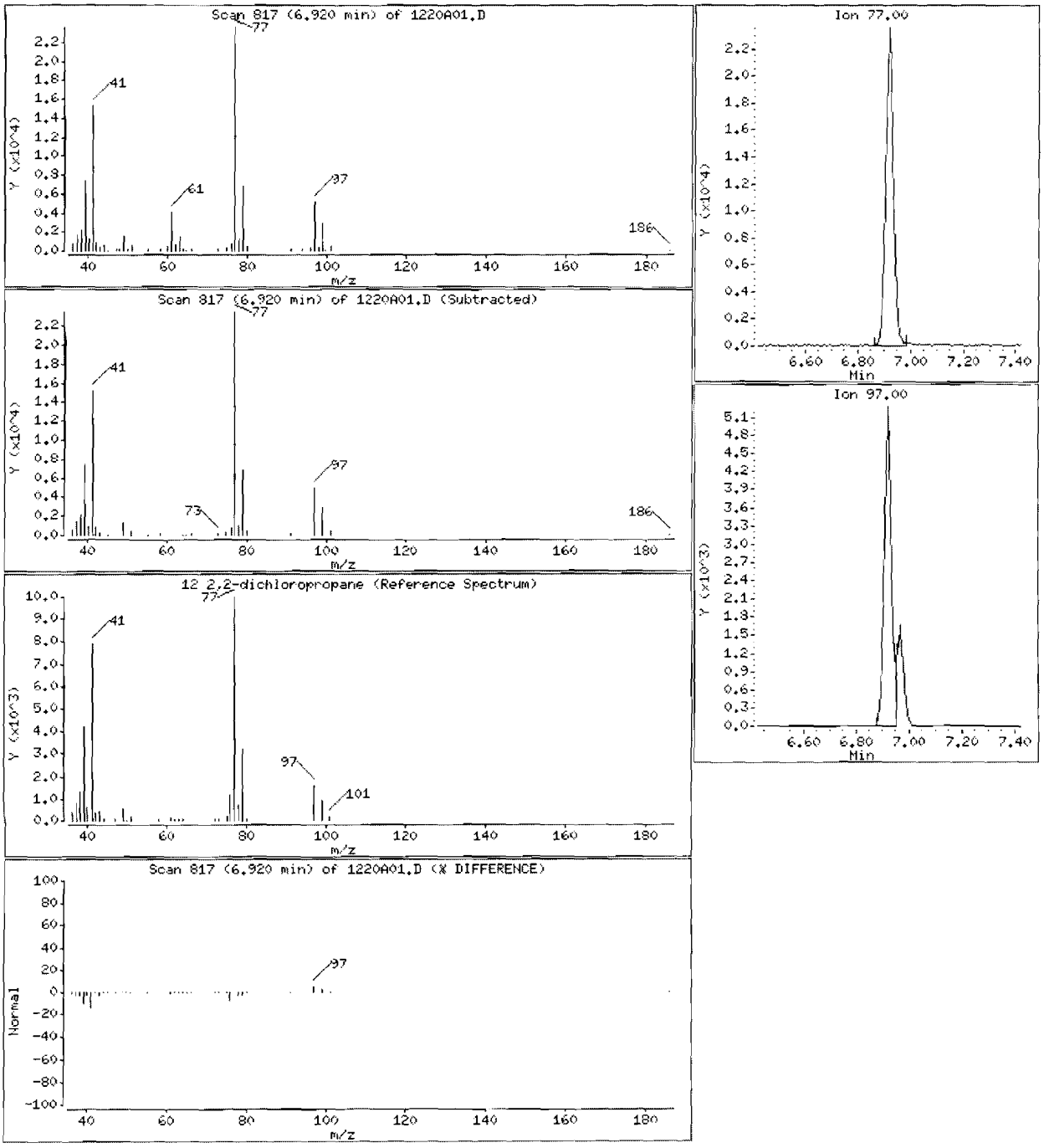
Operator: kl

Column phase:

Column diameter: 0.18

12 2,2-dichloropropane

Concentration: 90.29 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

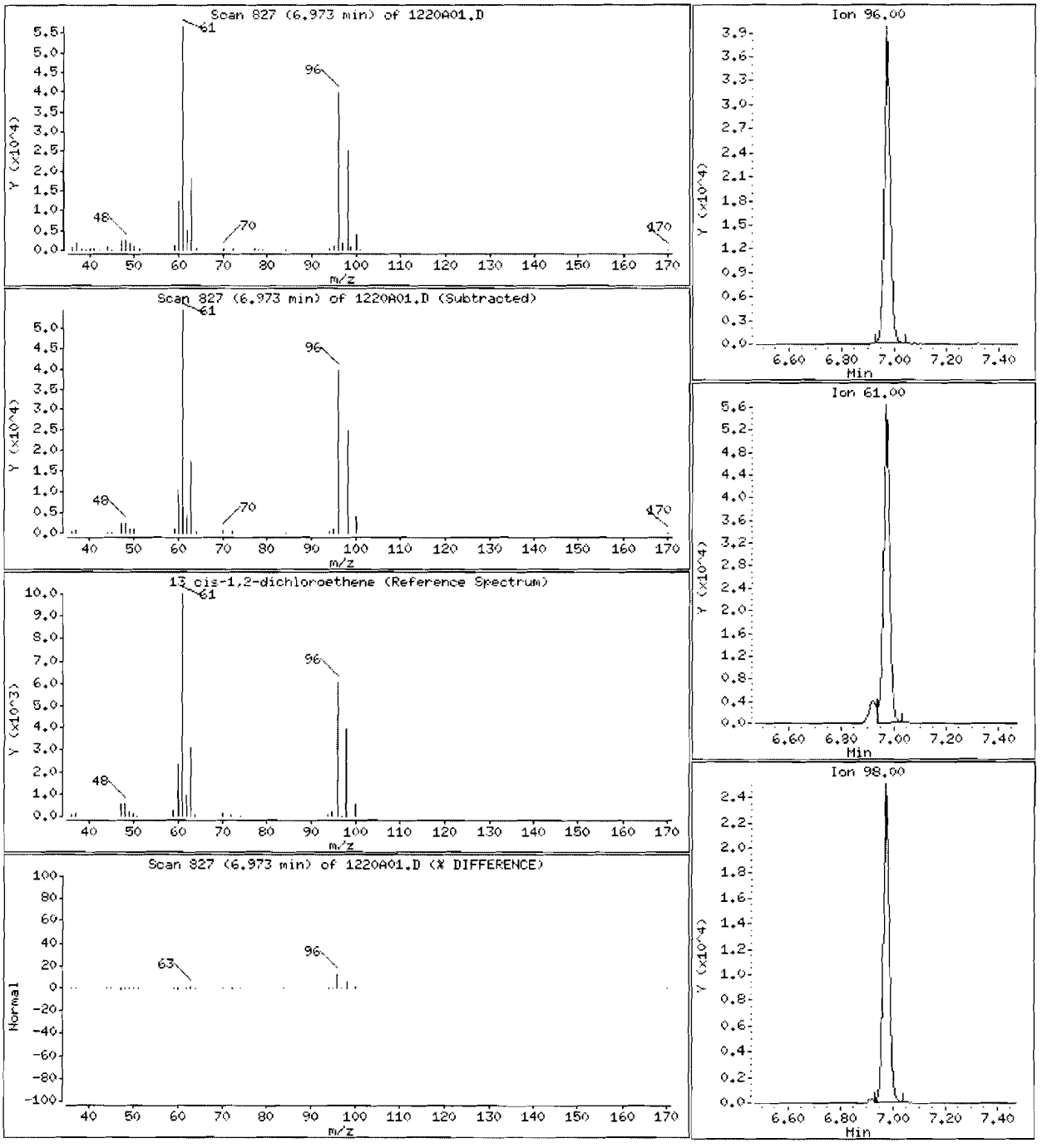
Operator: kl

Column phase:

Column diameter: 0.18

13 cis-1,2-dichloroethene

Concentration: 99.55 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

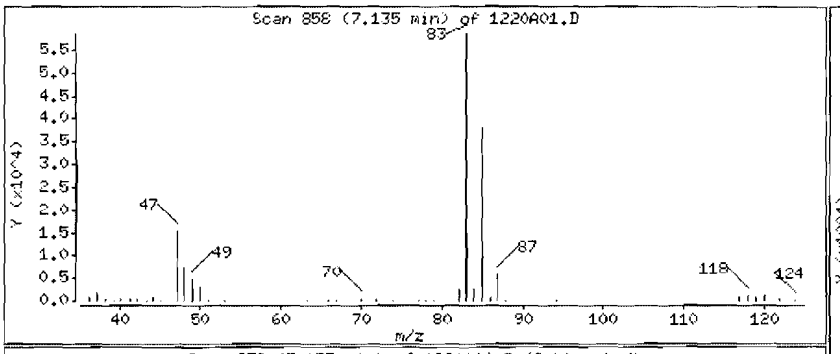
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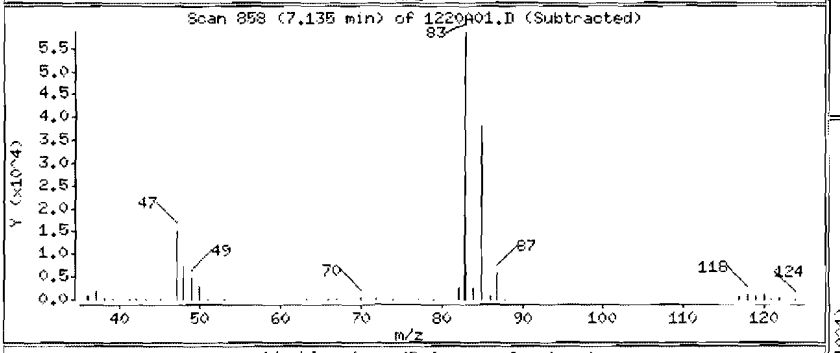
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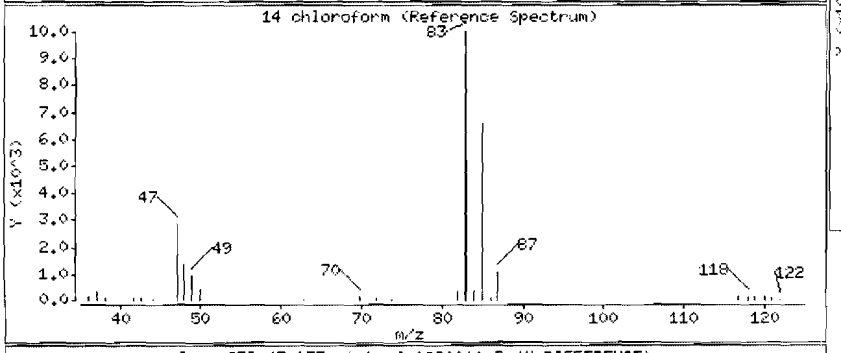
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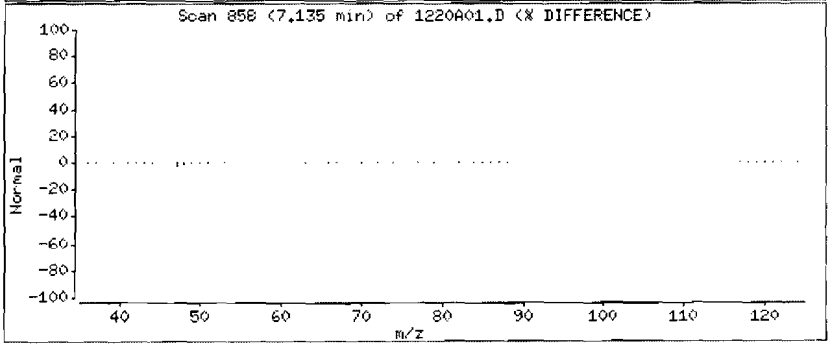
14 chloroform

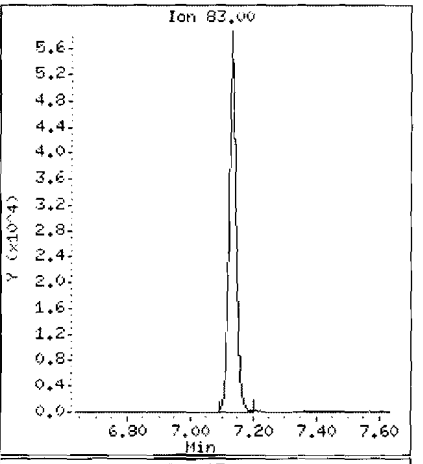
Concentration: 98.70 ngs

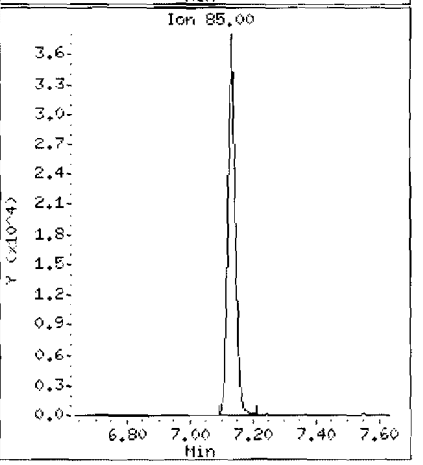












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

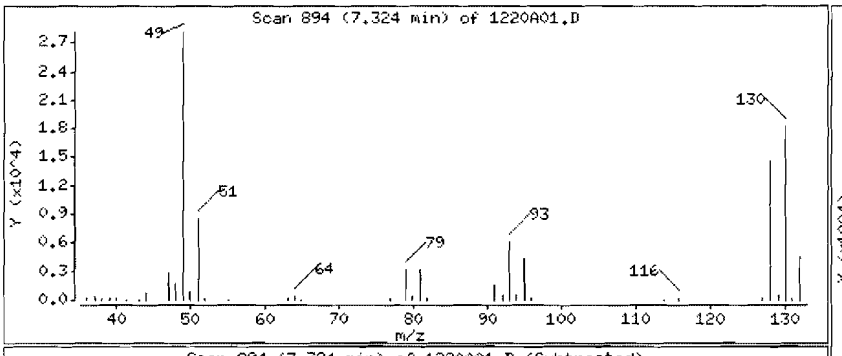
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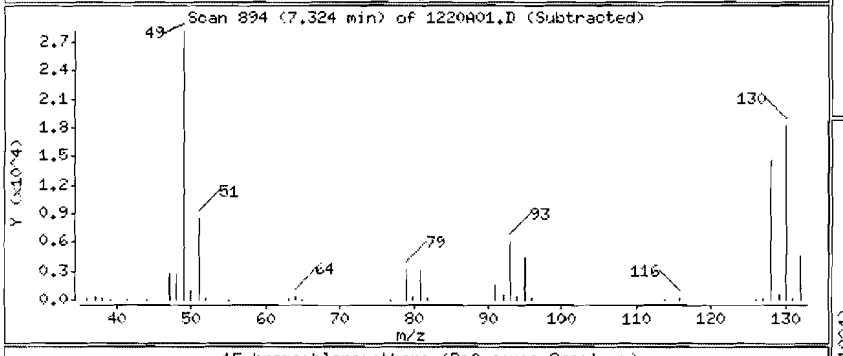
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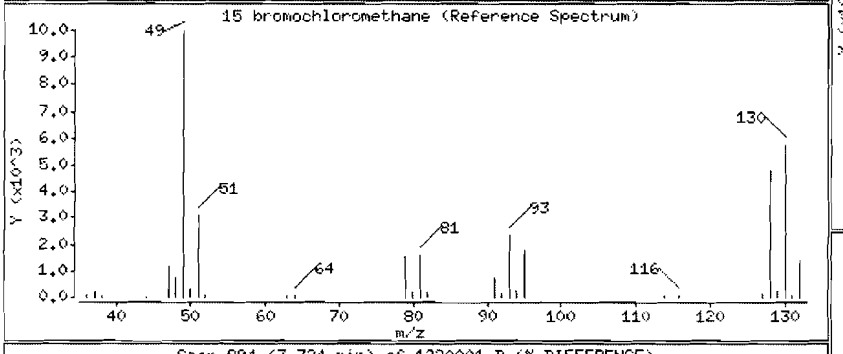
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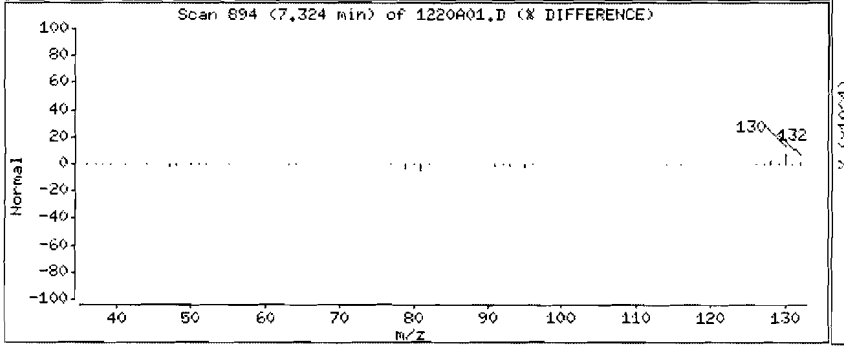
15 bromochloromethane

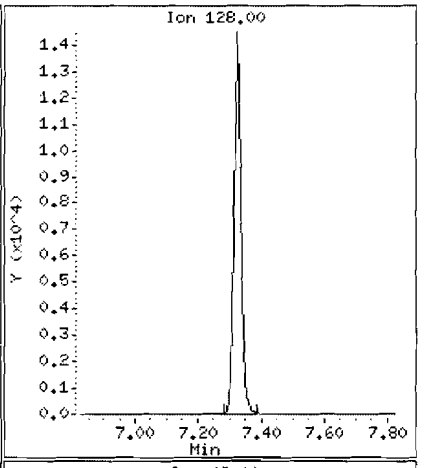
Concentration: 100.85 ngs

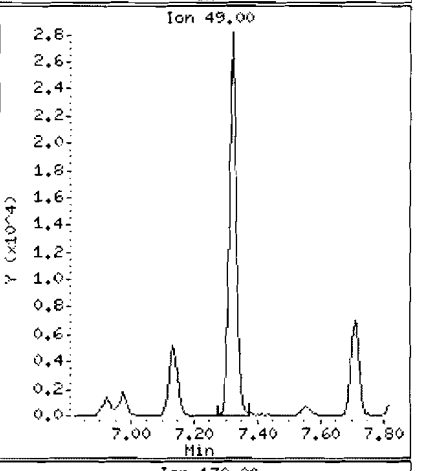


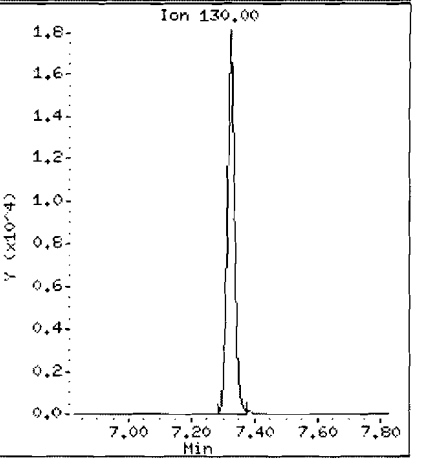












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31.25

Purge Volume: 25.0

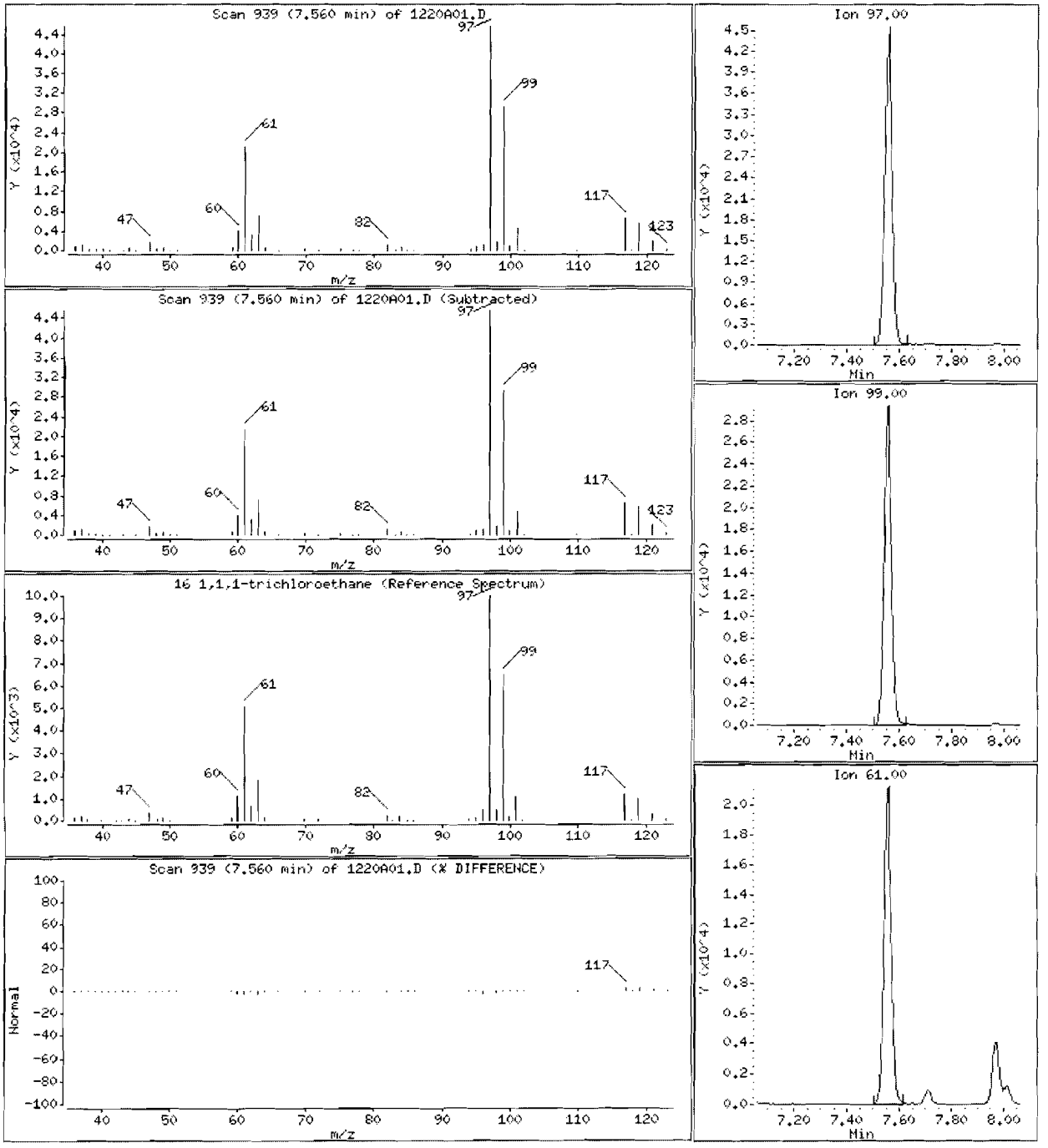
Operator: kl

Column phase:

Column diameter: 0.18

16 1,1,1-trichloroethane

Concentration: 97.90 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

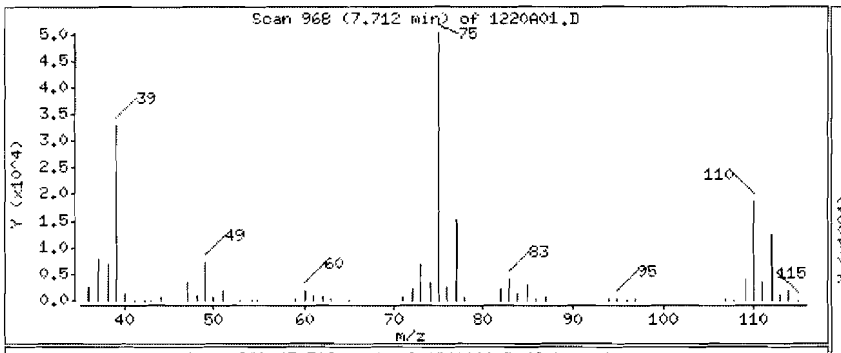
Operator: kl

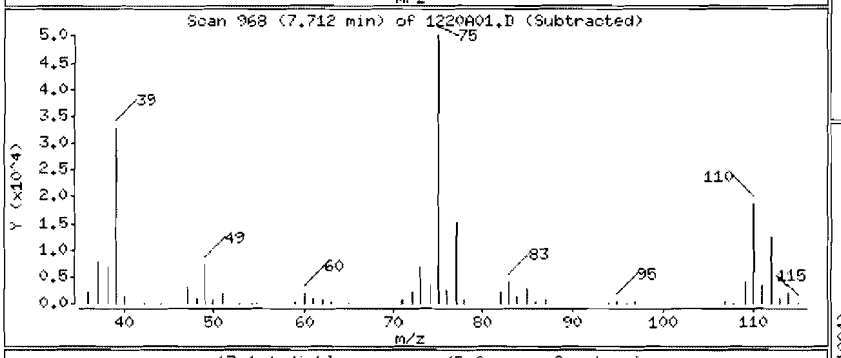
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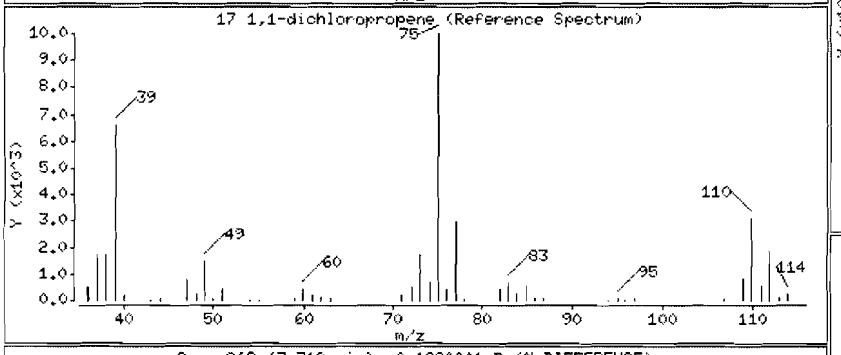
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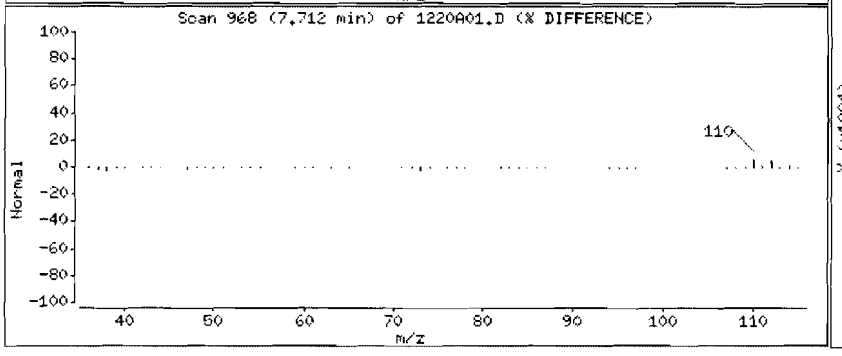
17 1,1-dichloropropene

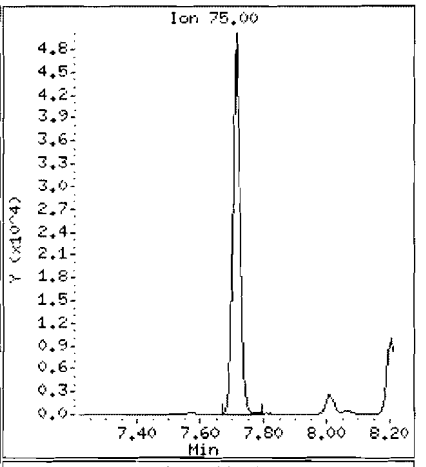
Concentration: 37.74 ngs

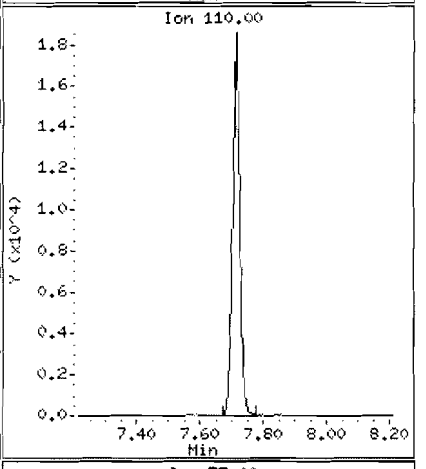


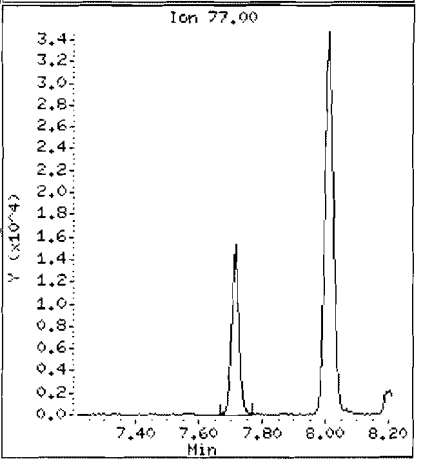












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Date : 20-DEC-2012 09:09

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Sample Info: wg580980-1,31,25

Purge Volume: 25.0

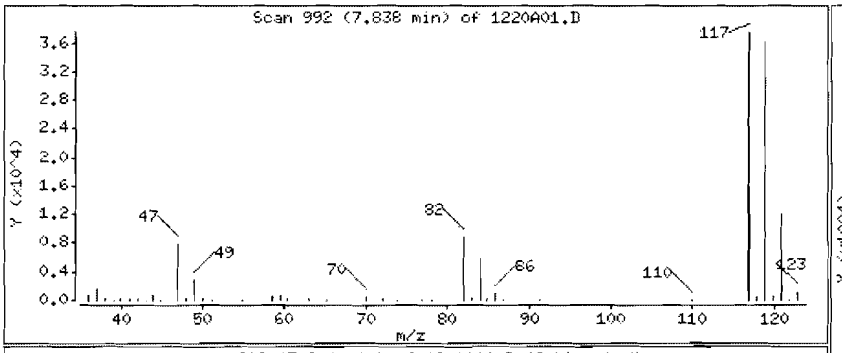
Operator: kl

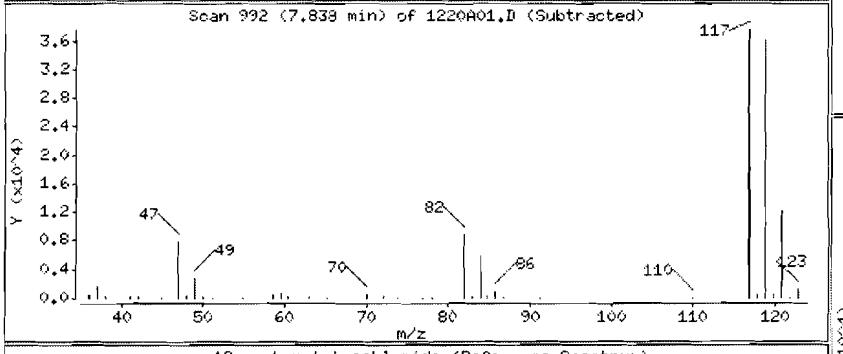
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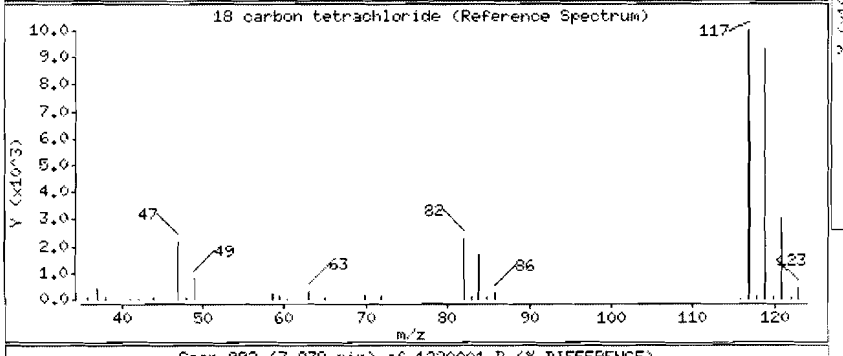
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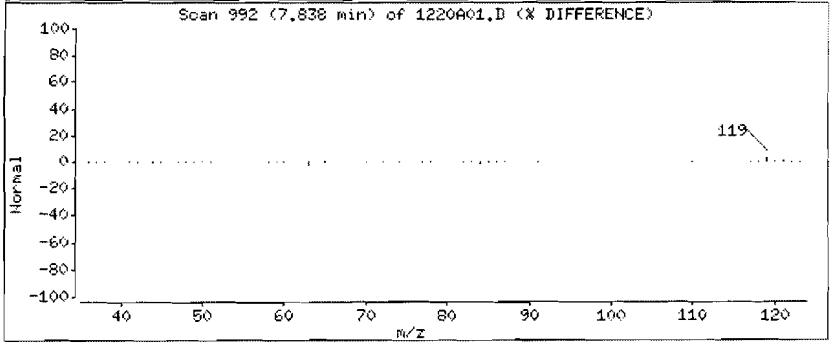
18 carbon tetrachloride

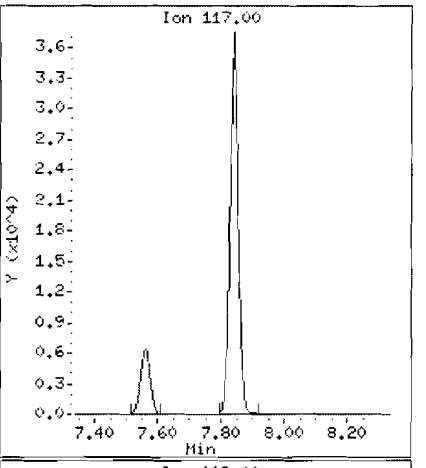
Concentration: 93.55 ngs

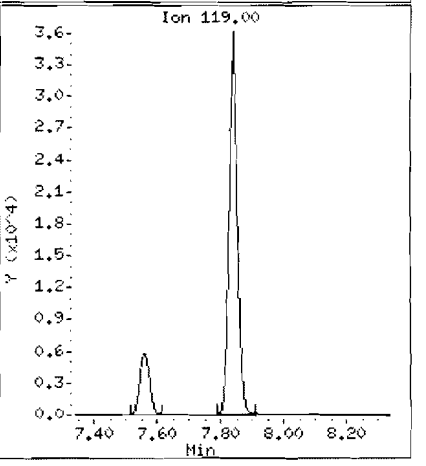












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

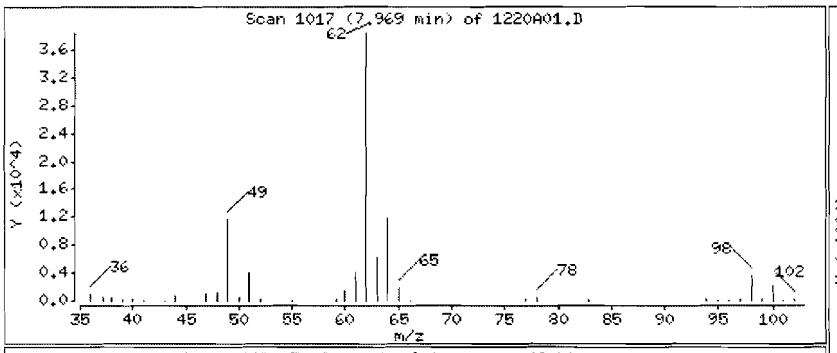
Operator: kl

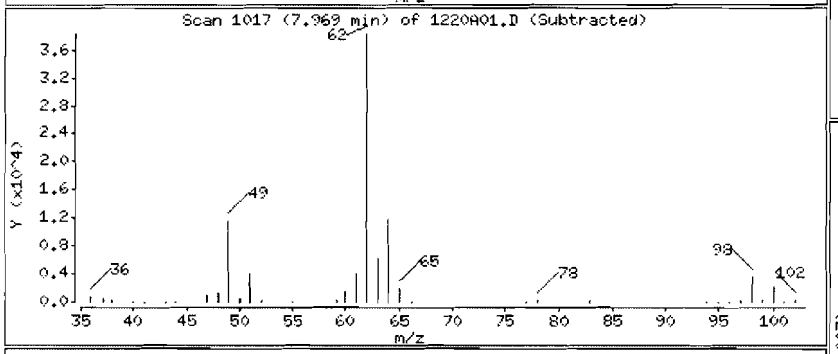
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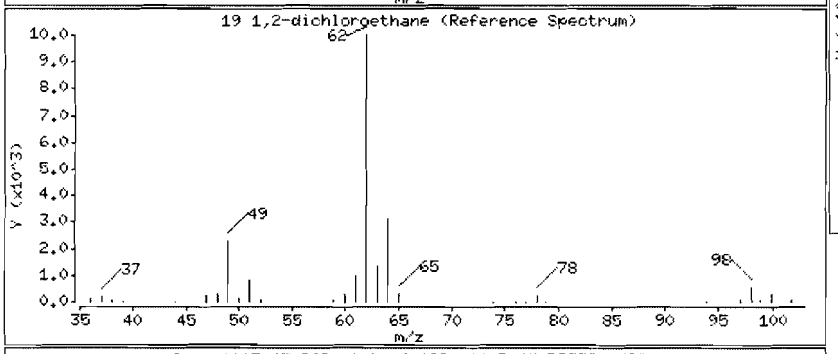
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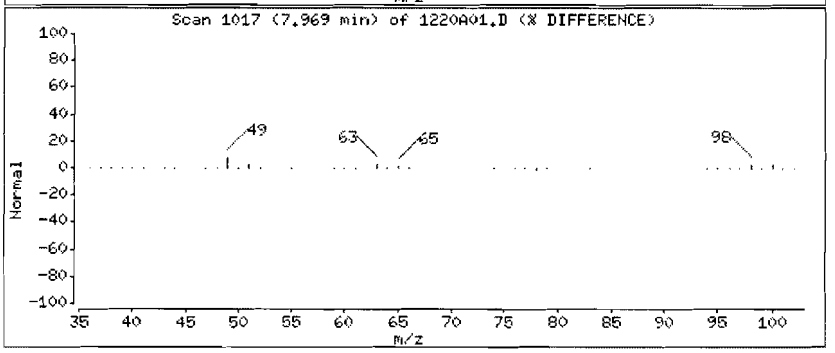
19 1,2-dichloroethane

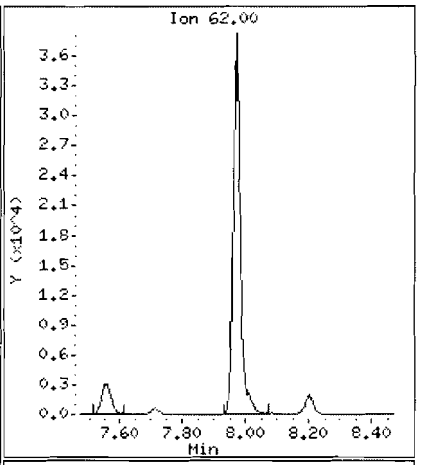
Concentration: 97.76 ngs

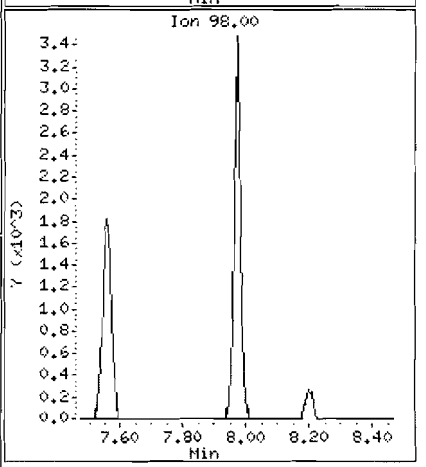












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

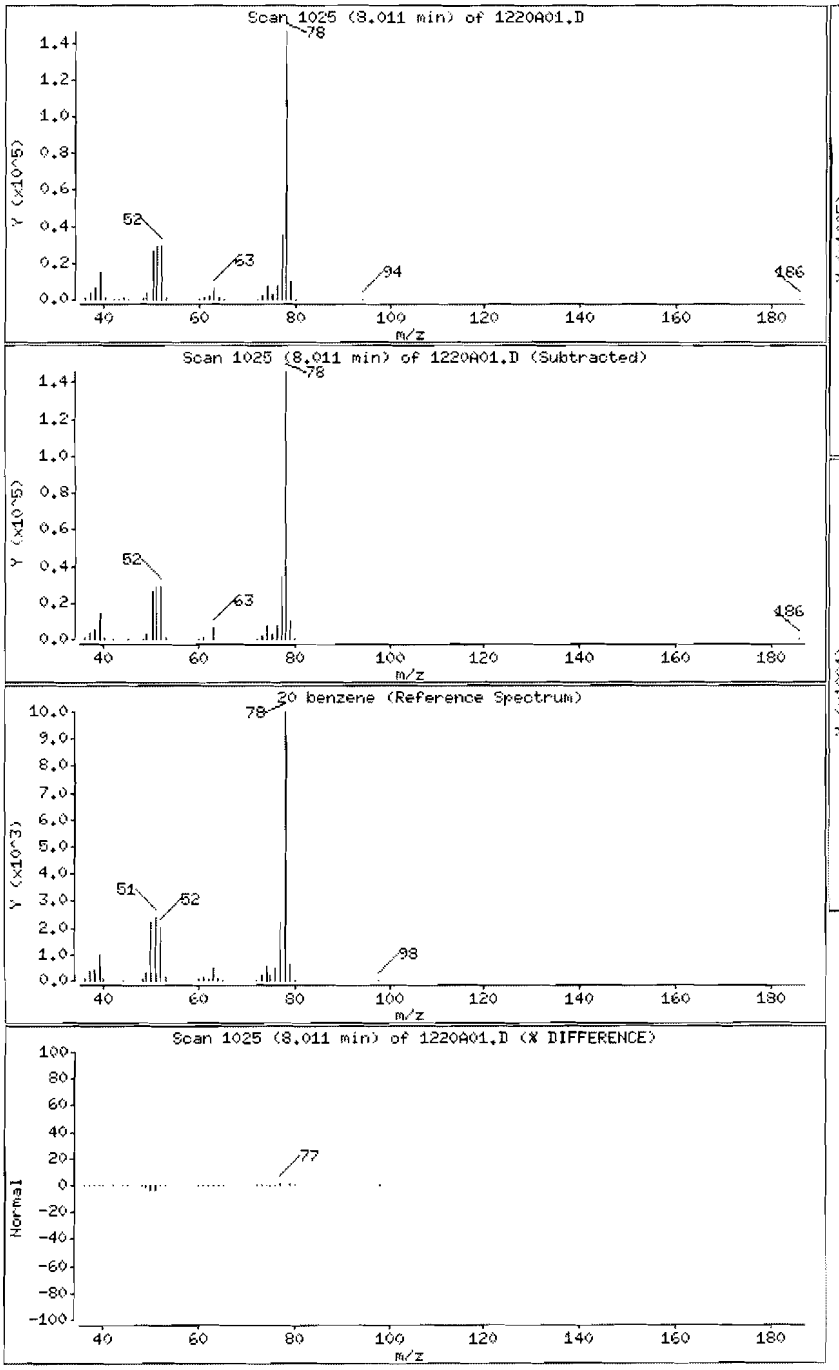
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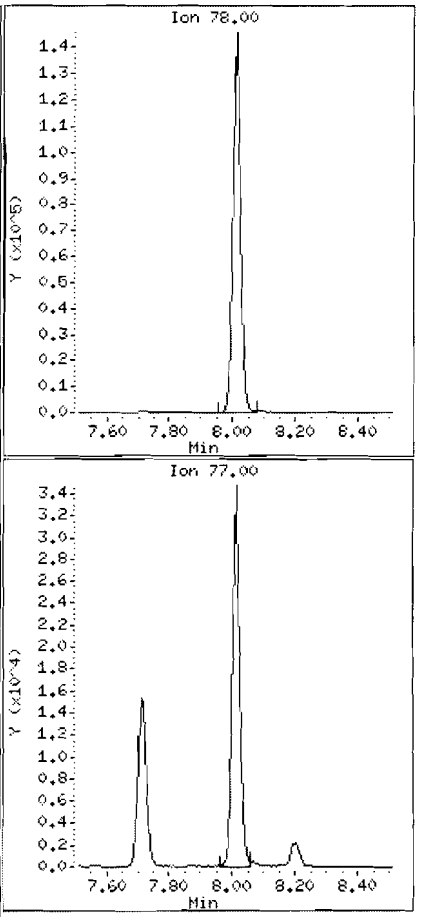
Column phase:

Column diameter: 0.18

20 benzene

Concentration: 99.94 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

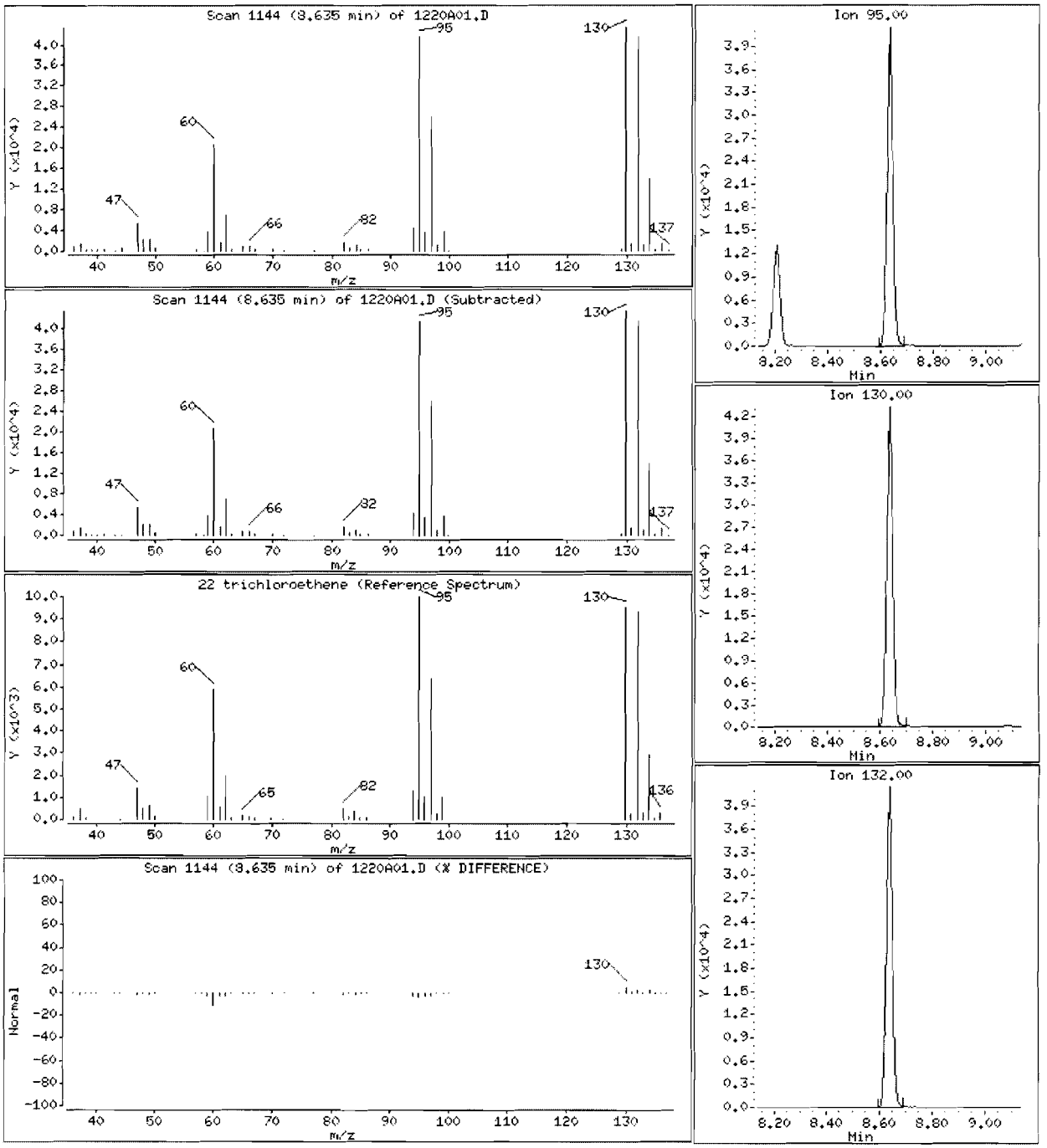
Operator: kl

Column phase:

Column diameter: 0.18

22 trichloroethene

Concentration: 99.25 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

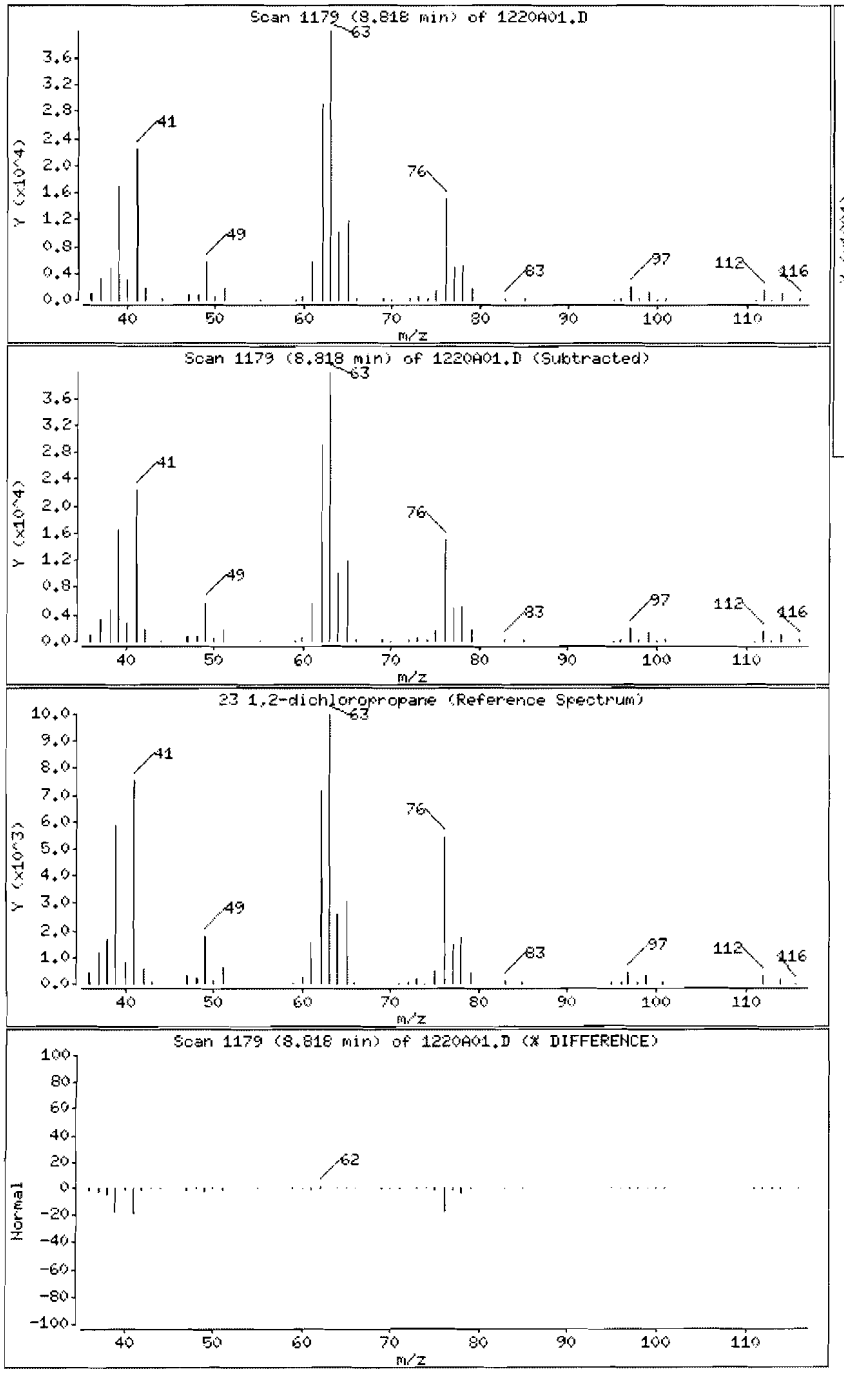
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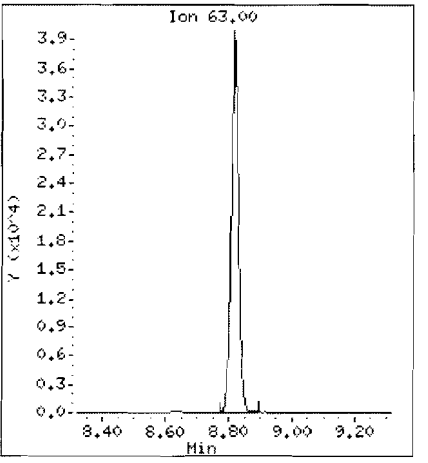
Column phase:

Column diameter: 0.18

23 1,2-dichloropropane

Concentration: 98.67 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

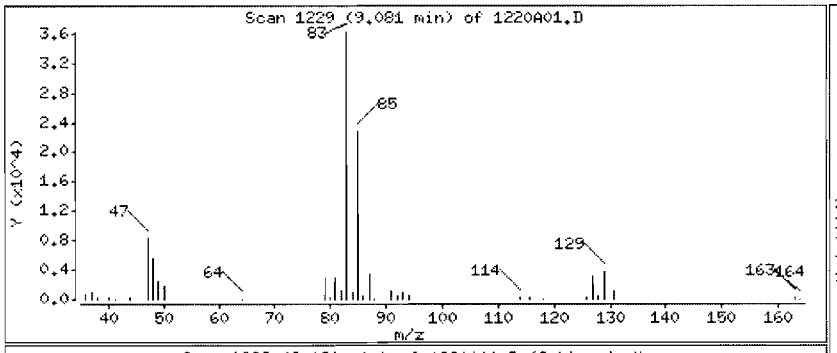
Operator: kl

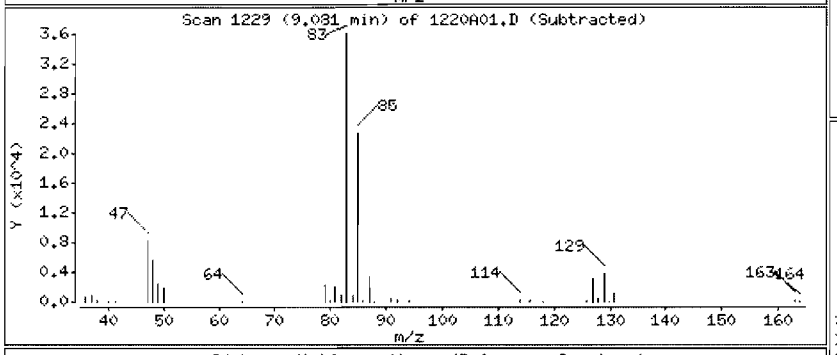
Column phase:

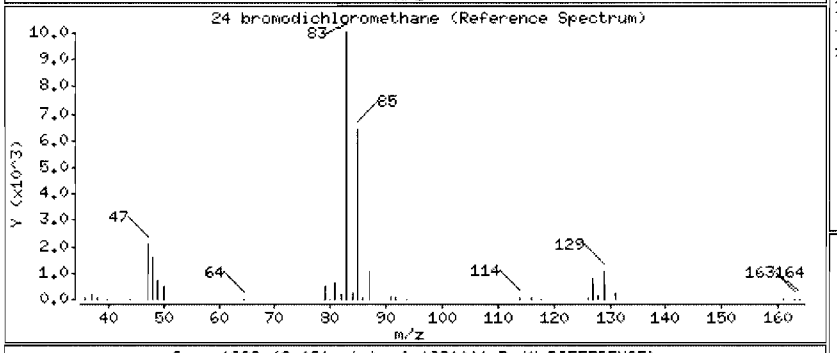
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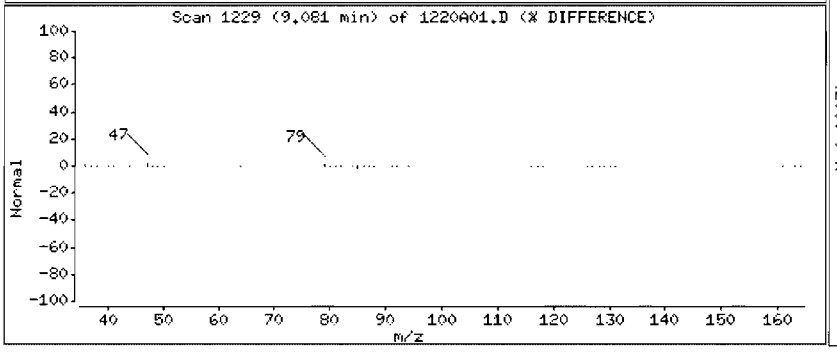
24 bromodichloromethane

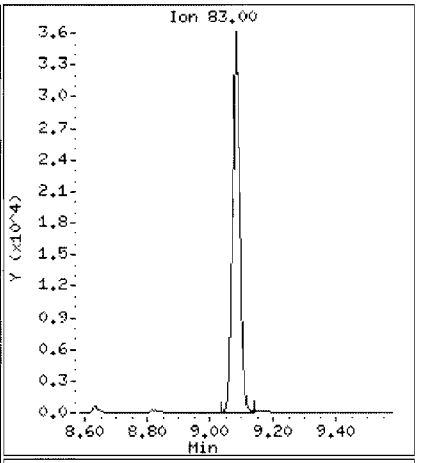
Concentration: 92.03 ngs

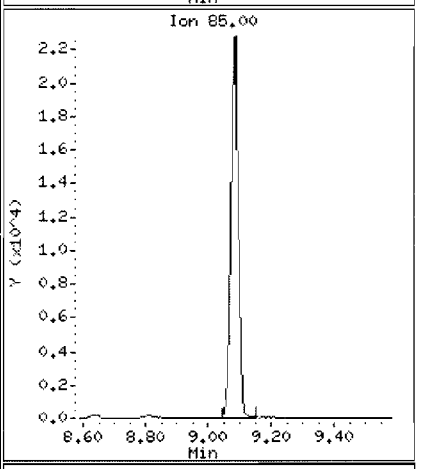


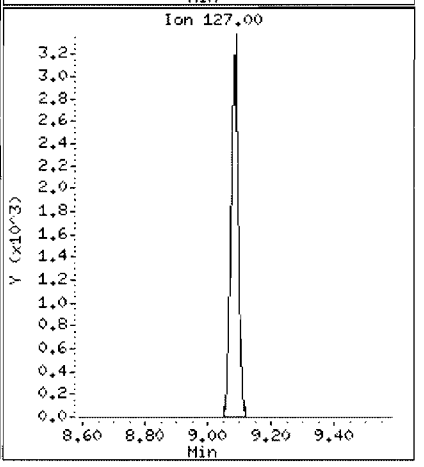












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

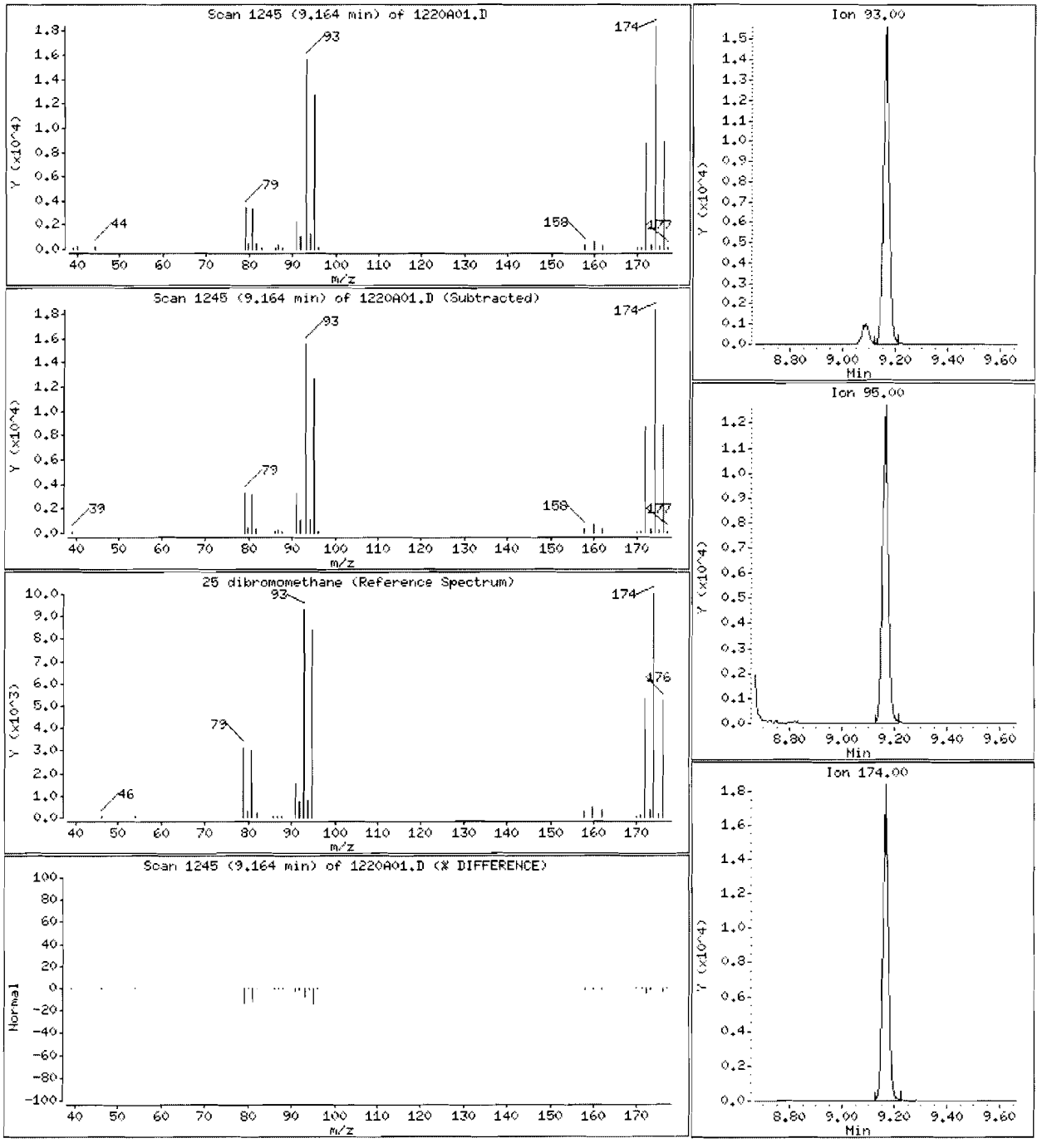
Operator: kl

Column phase:

Column diameter: 0.18

25 dibromomethane

Concentration: 100.30 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

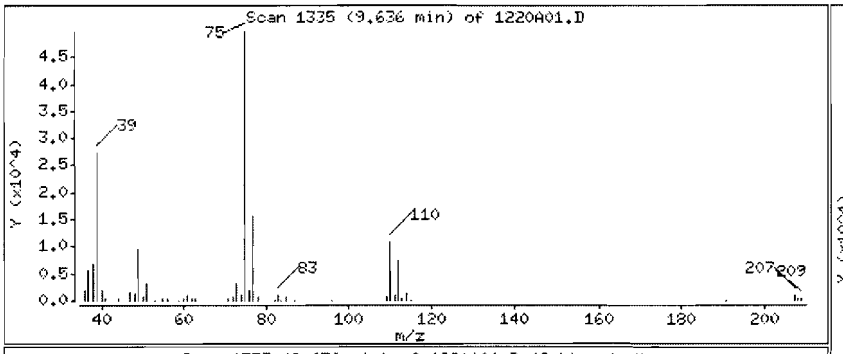
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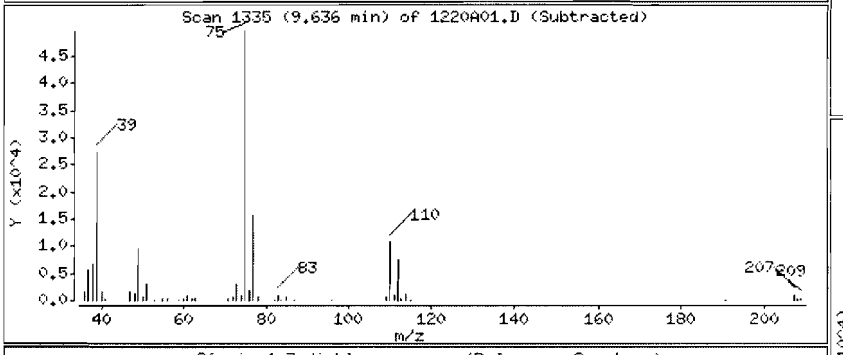
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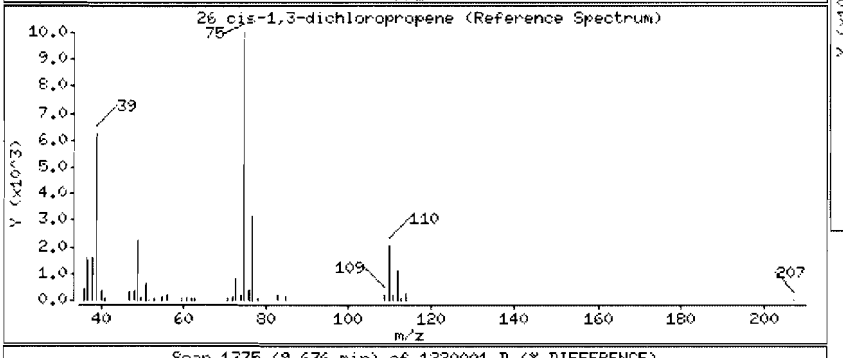
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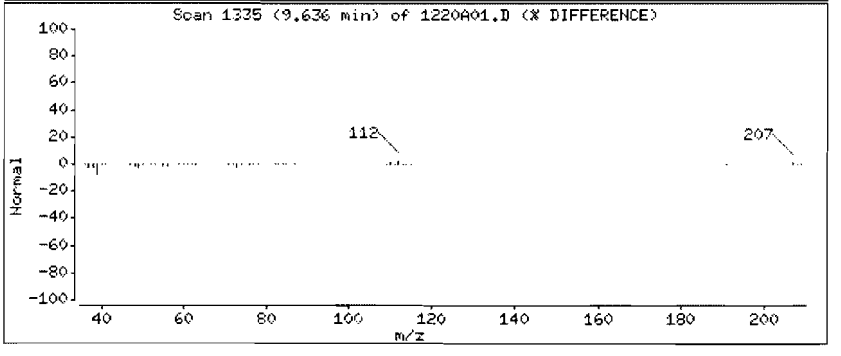
26 cis-1,3-dichloropropene

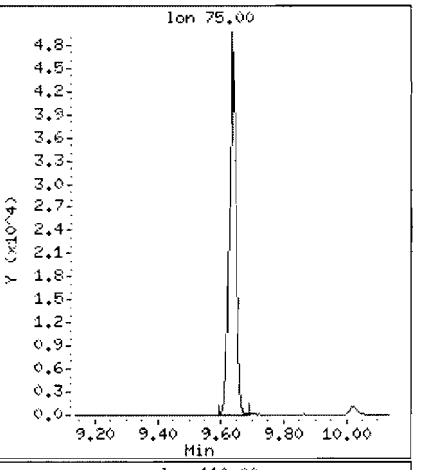
Concentration: 93.72 ngs

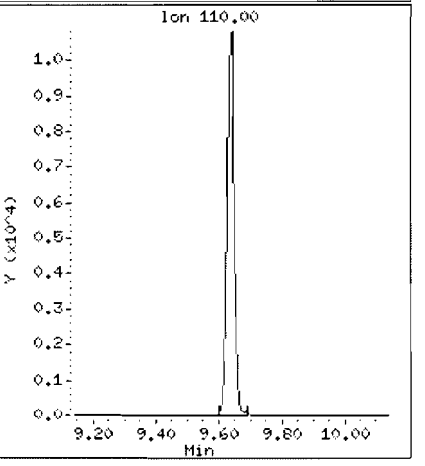












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

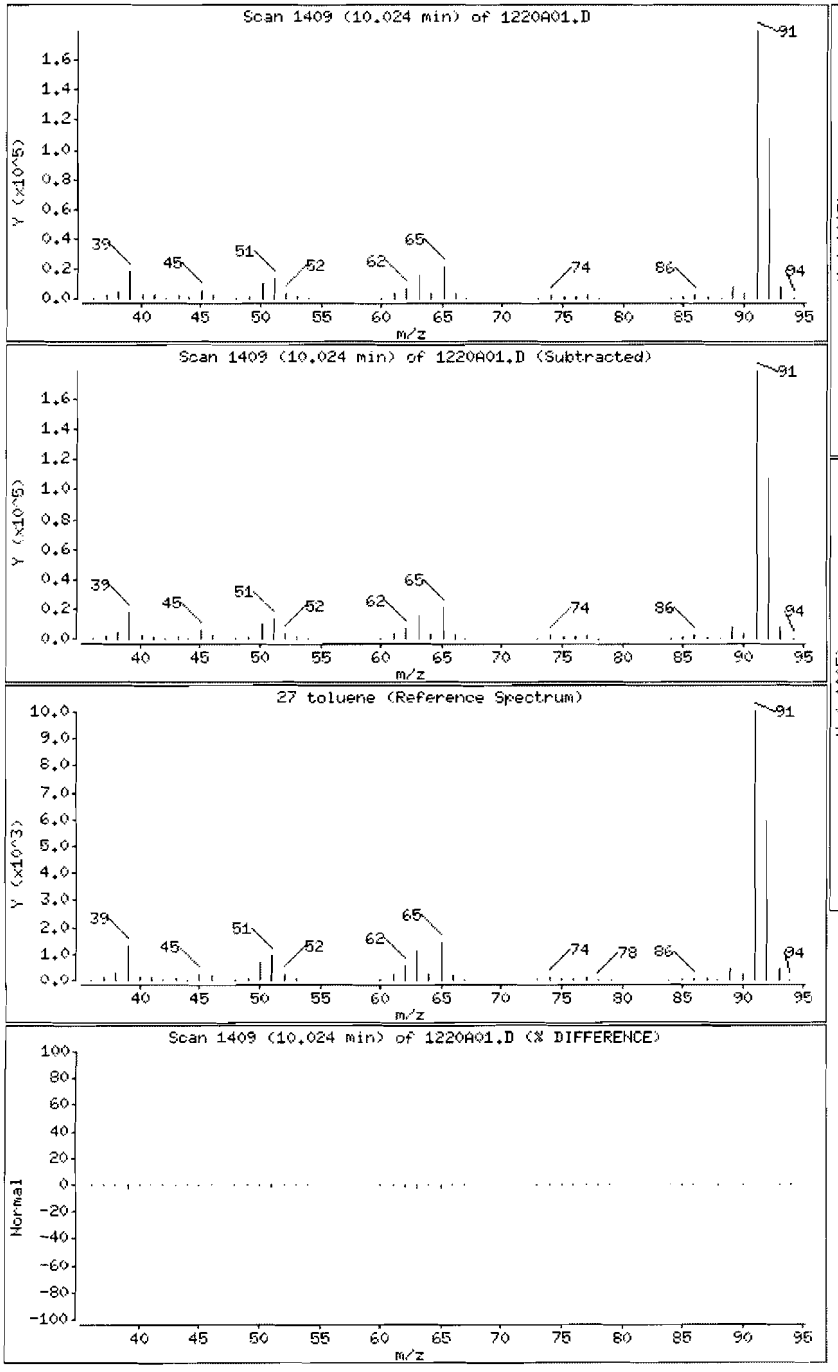
Operator: kl

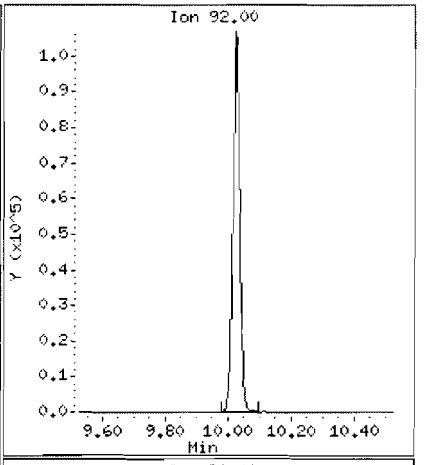
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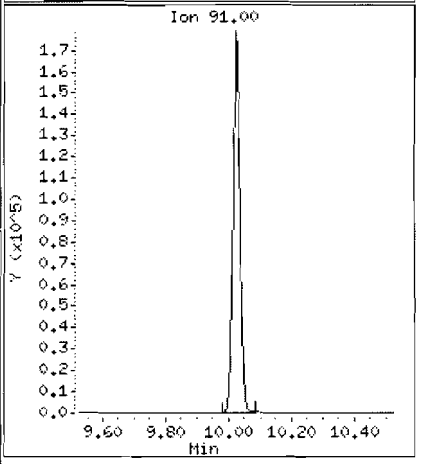
Column diameter: 0.18

27 toluene

Concentration: 100.68 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

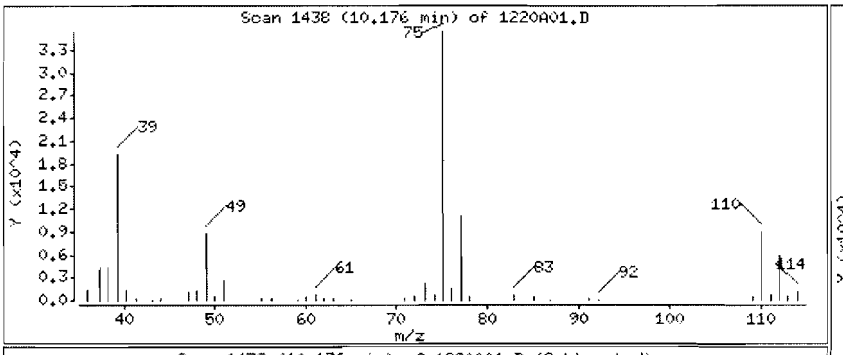
Operator: kl

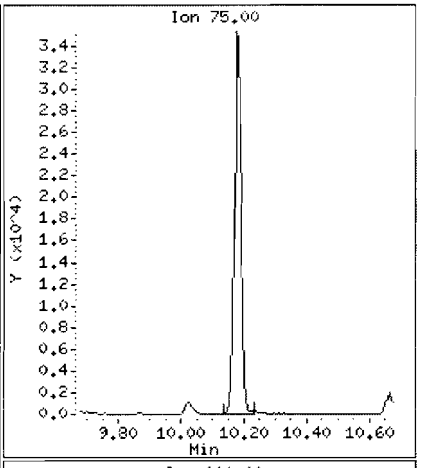
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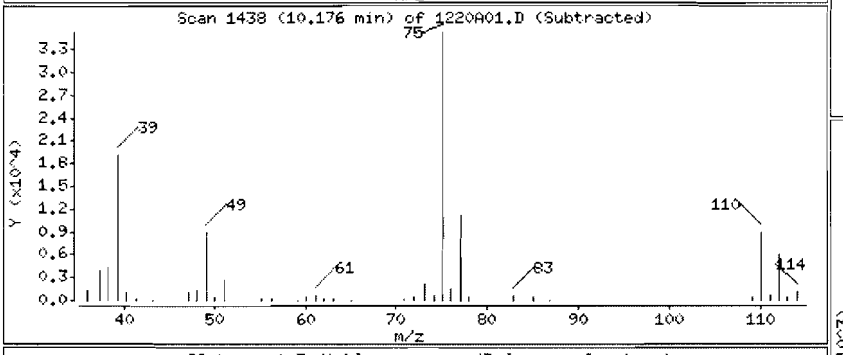
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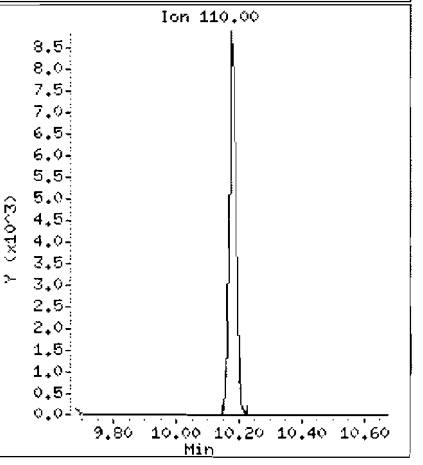
28 trans-1,3-dichloropropene

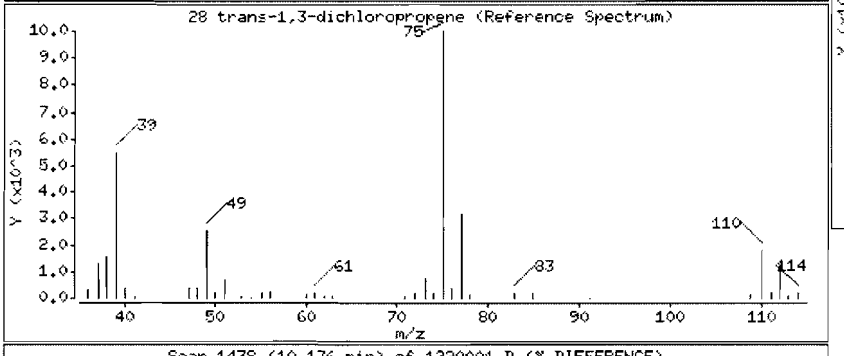
Concentration: 87.28 ngs

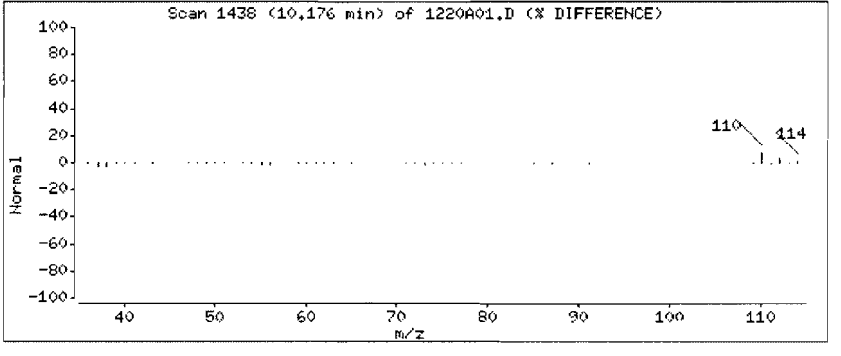












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

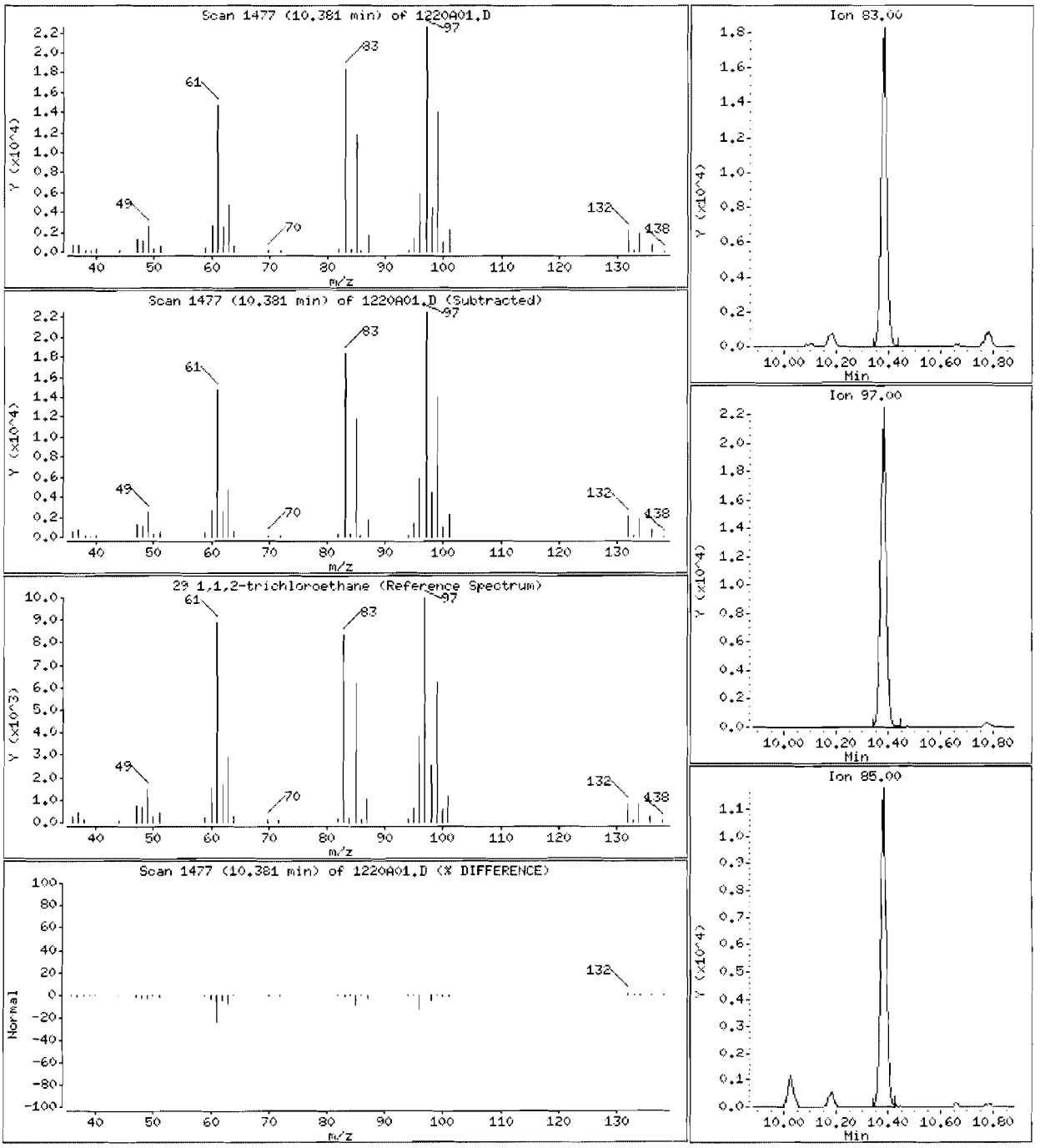
Operator: kl

Column phase:

Column diameter: 0.18

29 1,1,2-trichloroethane

Concentration: 97.94 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D Page 35

Date : 20-DEC-2012 09:09

Client ID: Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D Page 37

Date : 20-DEC-2012 09:09

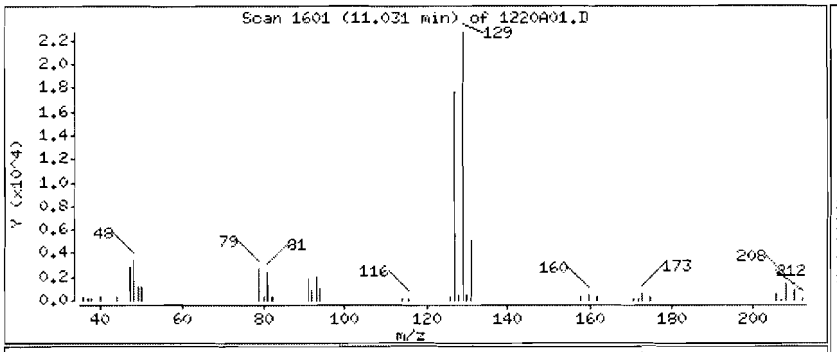
Client ID: Instrument: Bundy.i

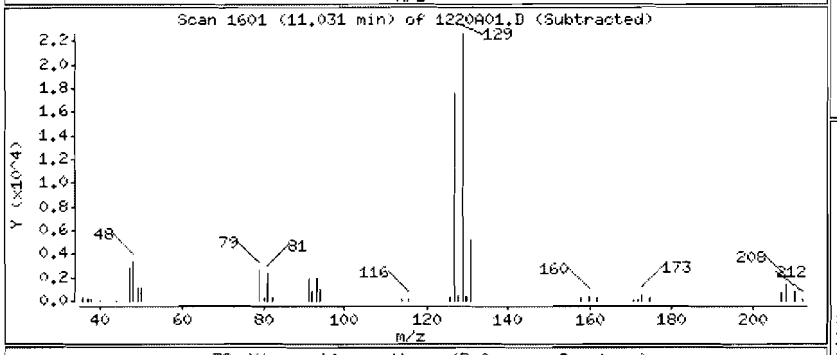
Sample Info: wg580980-1,31,25

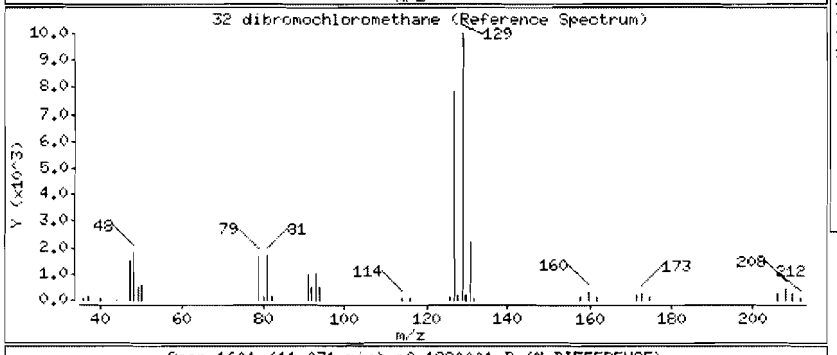
Purge Volume: 25.0 Operator: kl

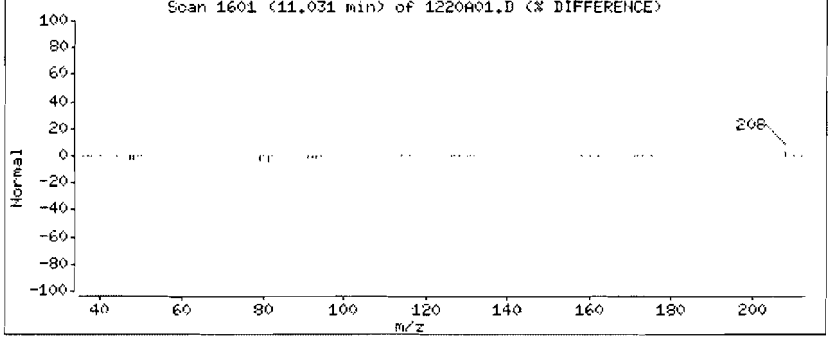
Column phase: Column diameter: 0.18

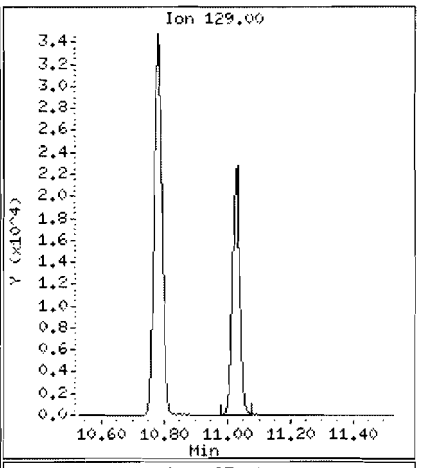
32 dibromochloromethane Concentration: 91.13 ngs

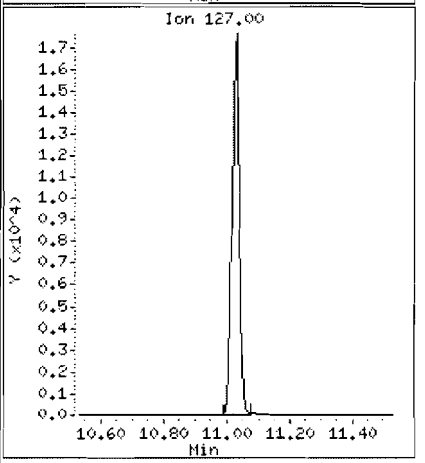












Data File: \\orgserv2\ff\chem\GCMSWDA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

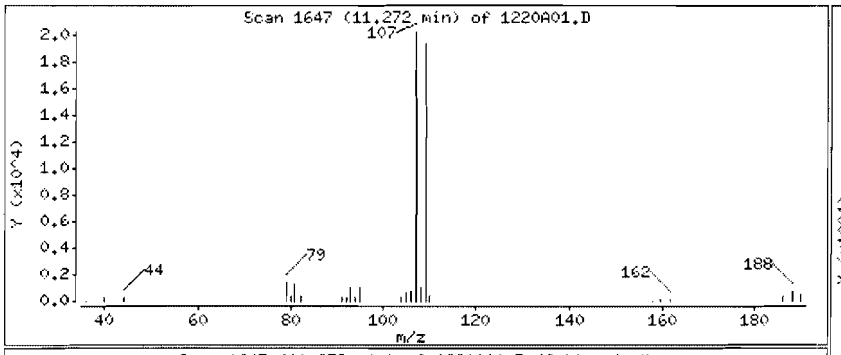
Operator: kl

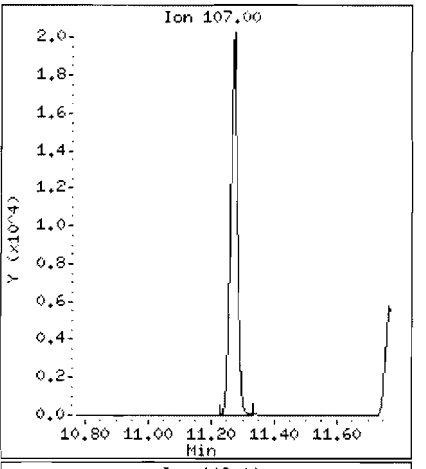
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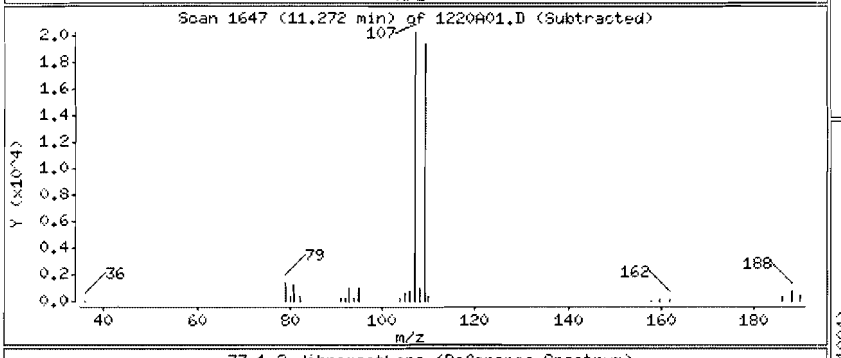
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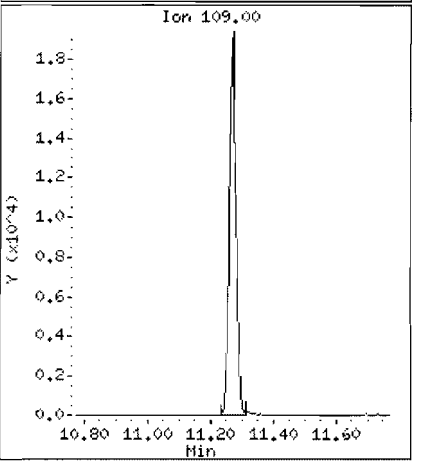
33 1,2-dibromoethane

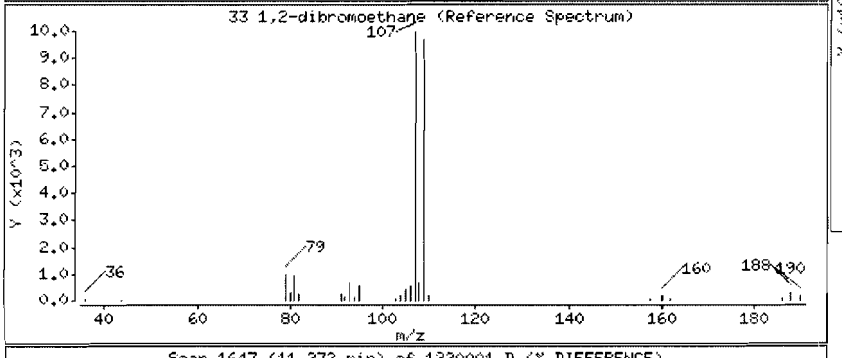
Concentration: 94.20 ngs

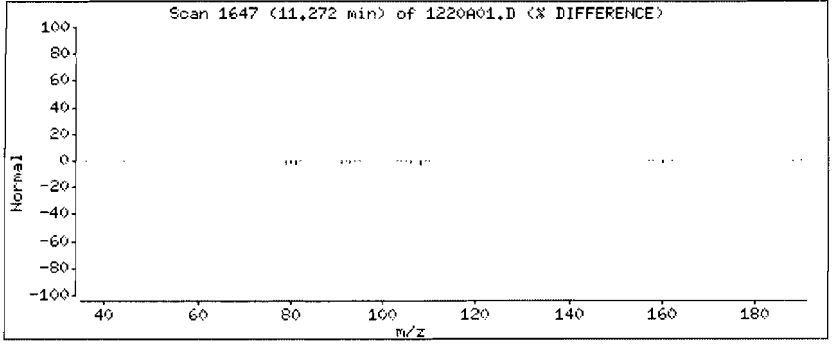












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

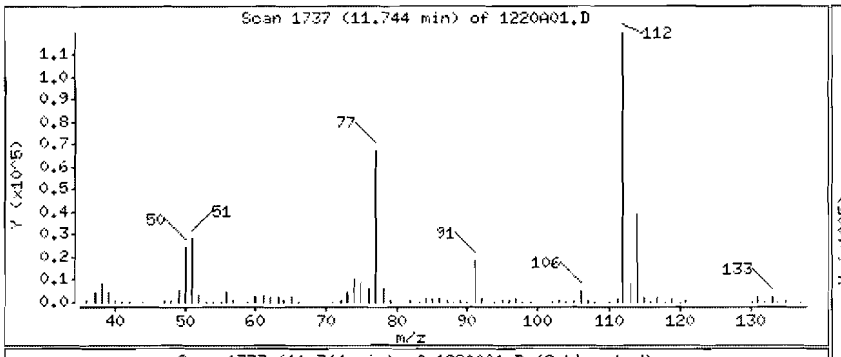
Operator: kl

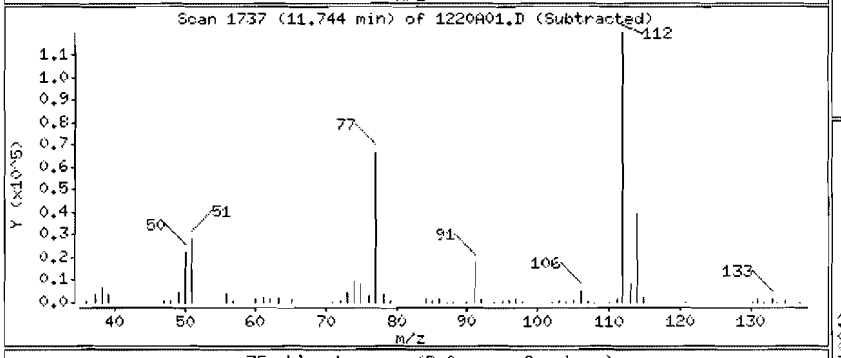
Column phase:

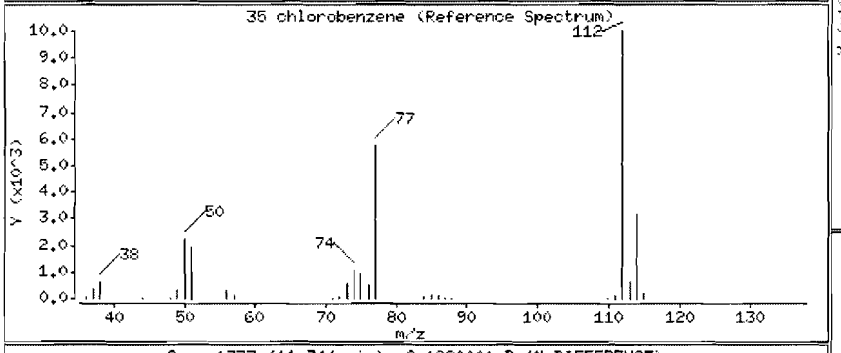
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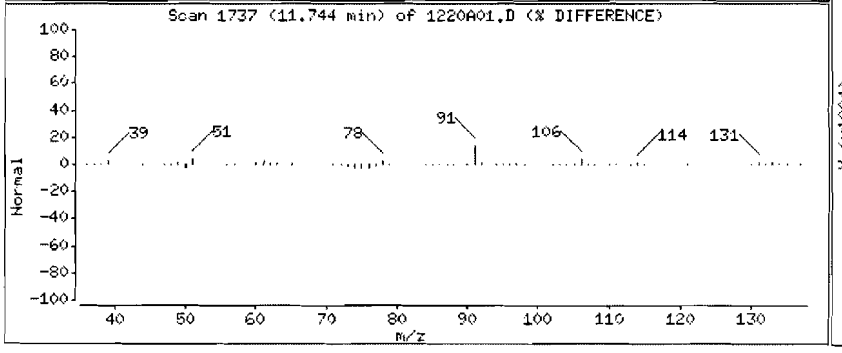
35 chlorobenzene

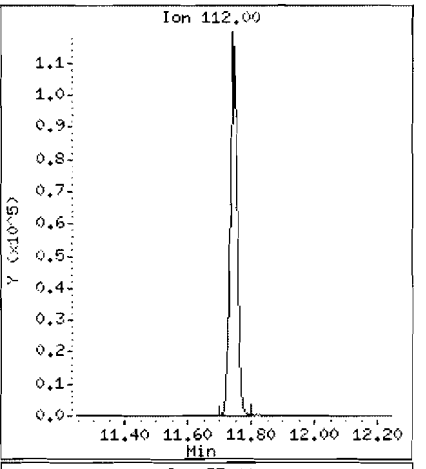
Concentration: 98.60 ngs

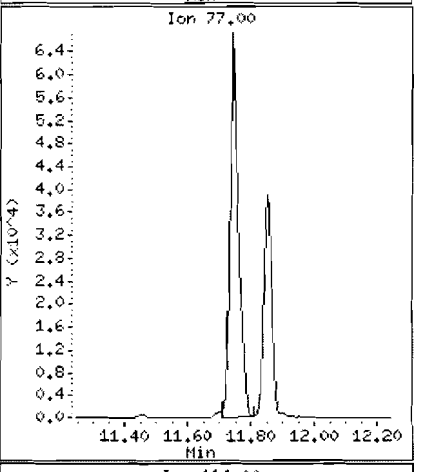


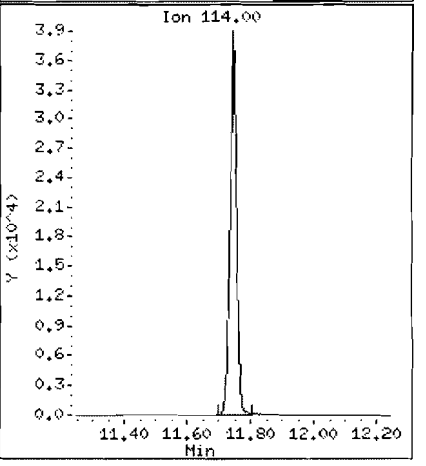












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

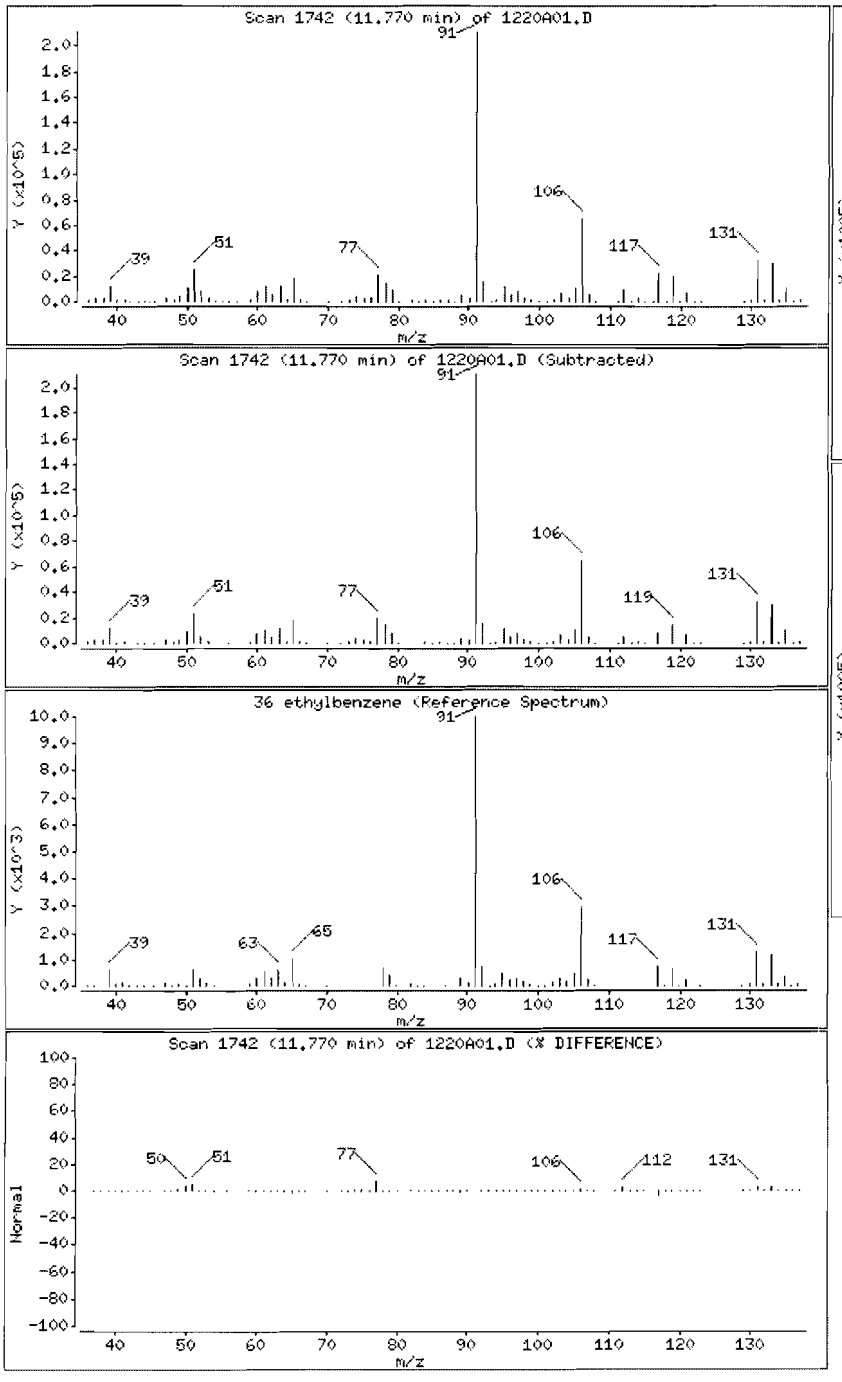
Operator: kl

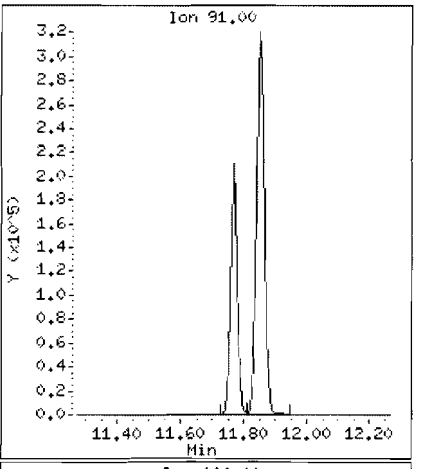
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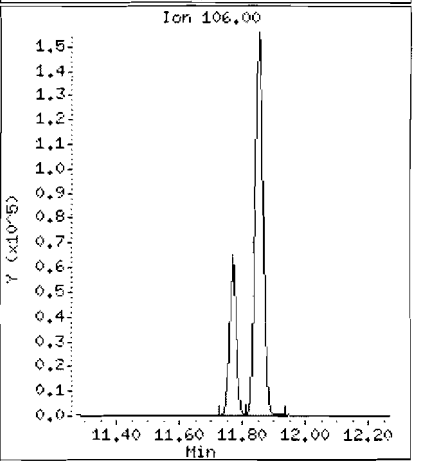
Column diameter: 0.18

36 ethylbenzene

Concentration: 98.87 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

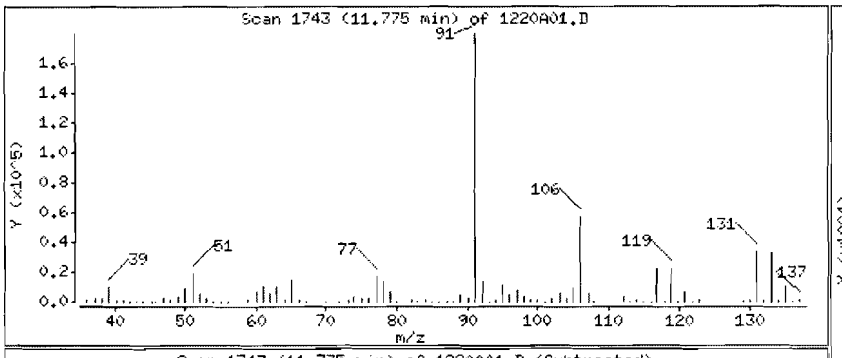
Operator: kl

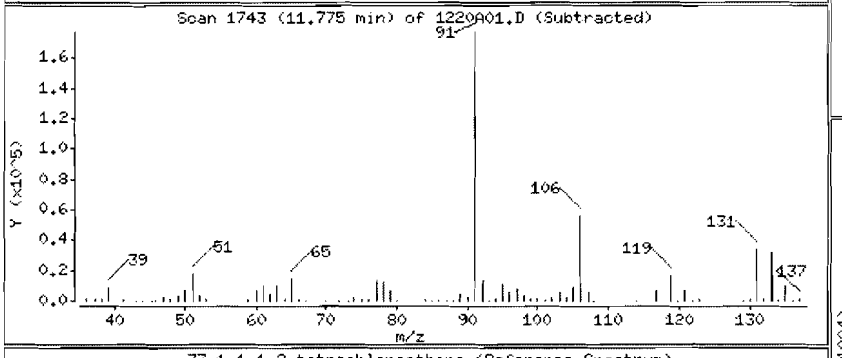
Column phase:

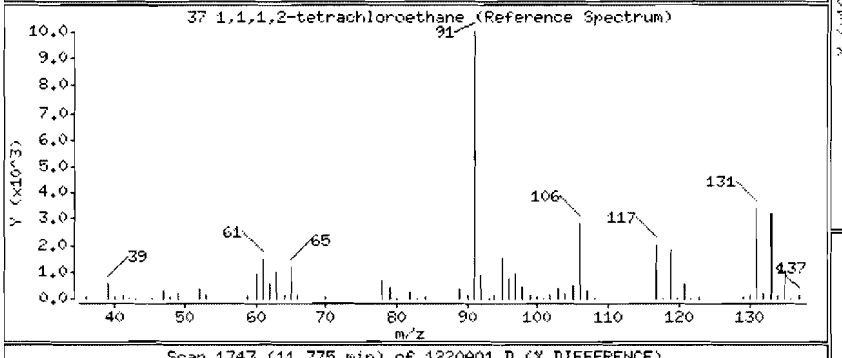
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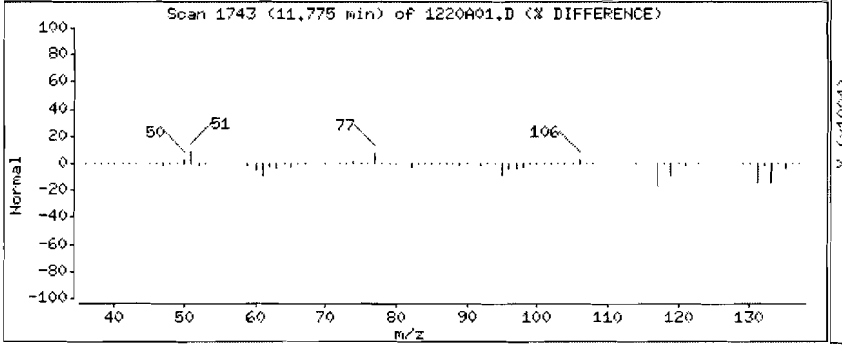
37 1,1,1,2-tetrachloroethane

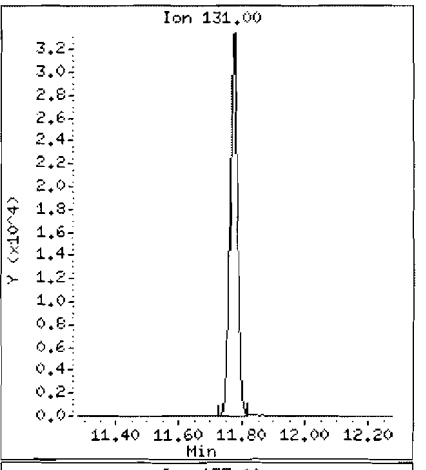
Concentration: 95.66 ngs

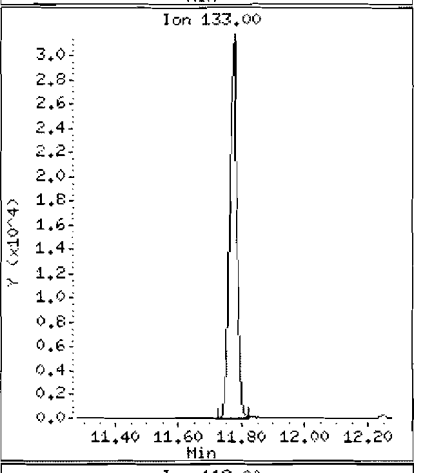


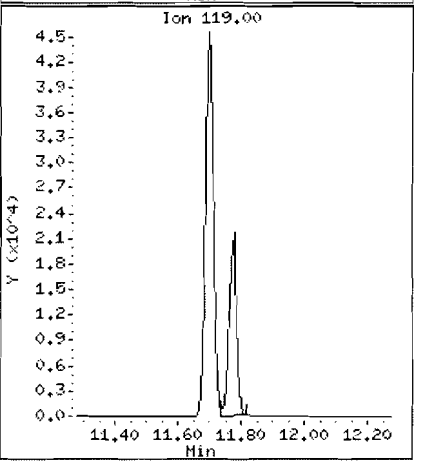












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

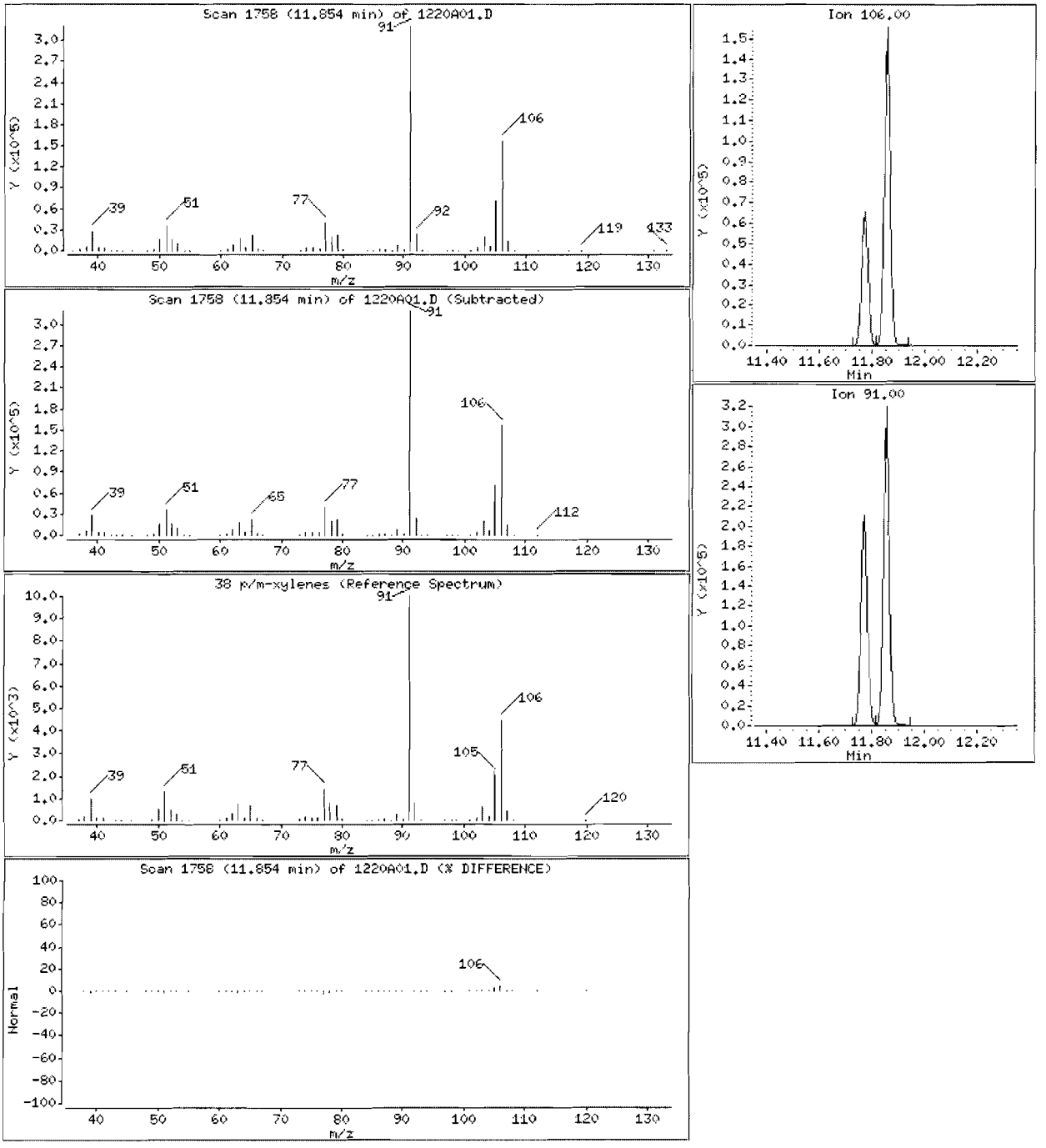
Operator: kl

Column phase:

Column diameter: 0.18

38 p/m-xylenes

Concentration: 201.40 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

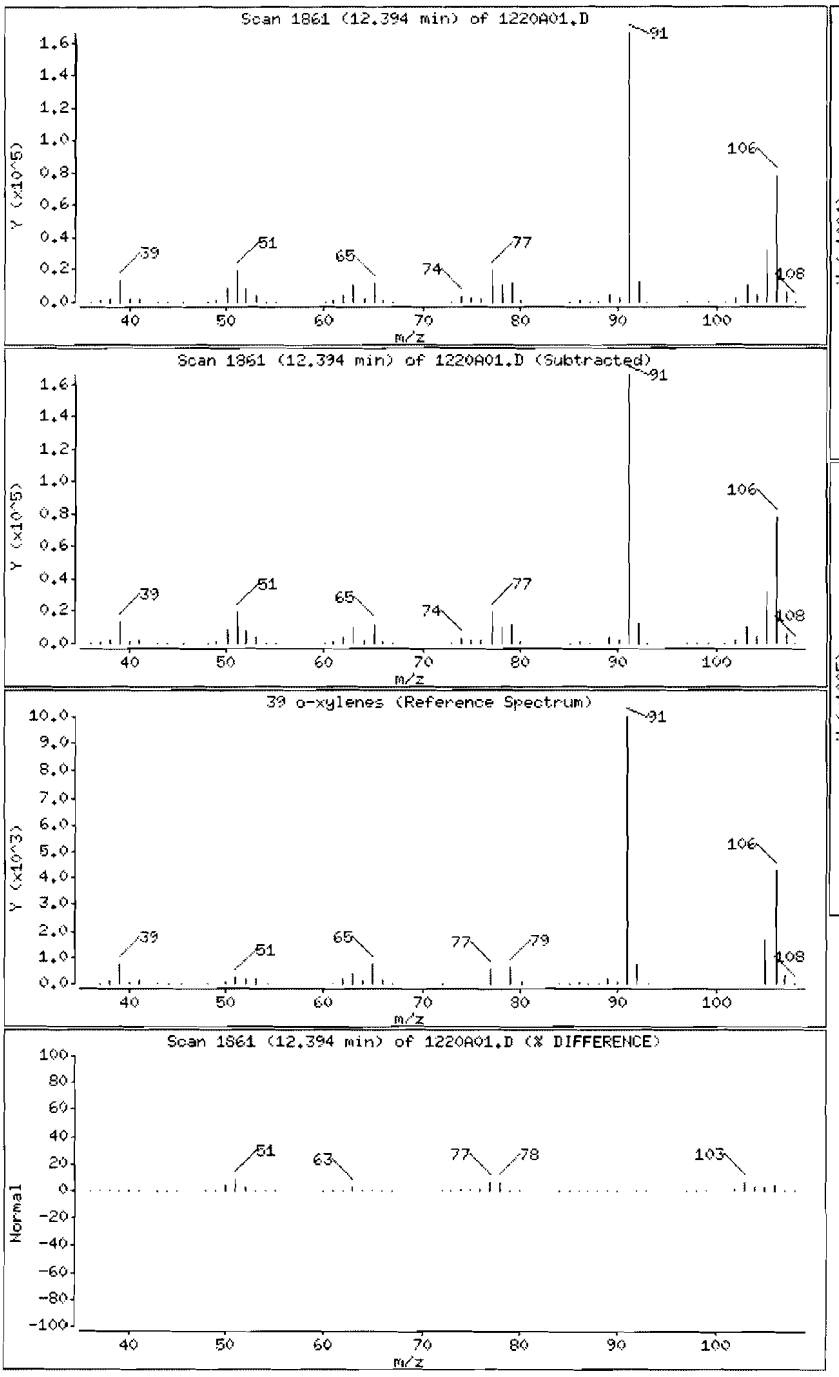
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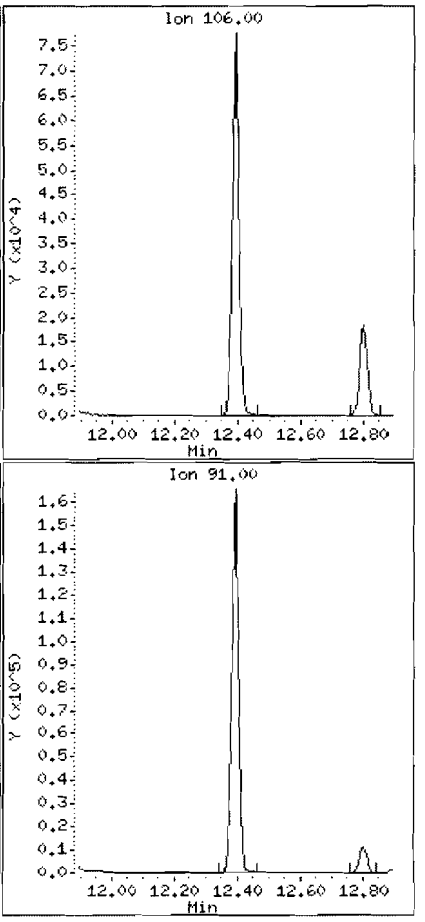
Column phase:

Column diameter: 0.18

39 o-xylenes

Concentration: 99.61 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

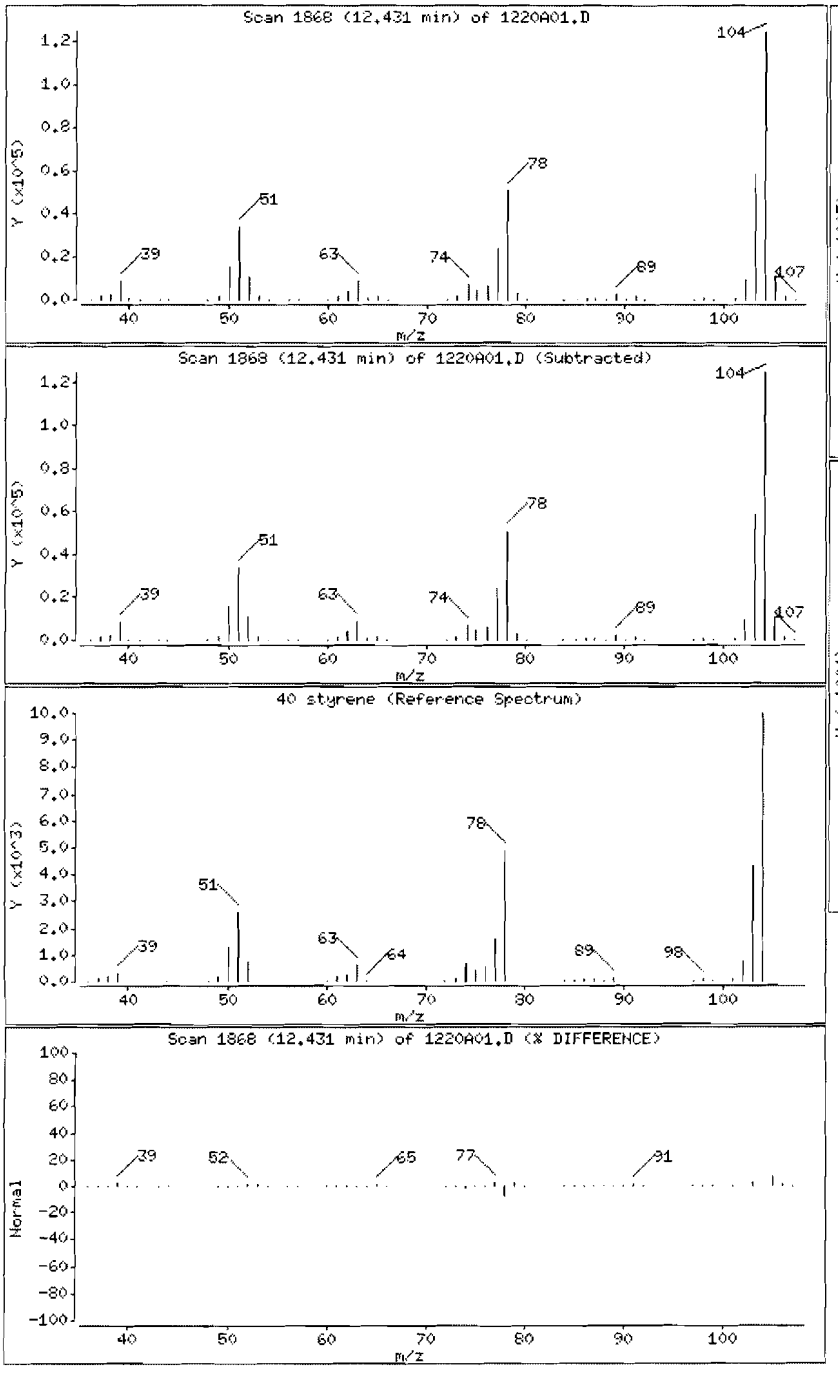
Operator: kl

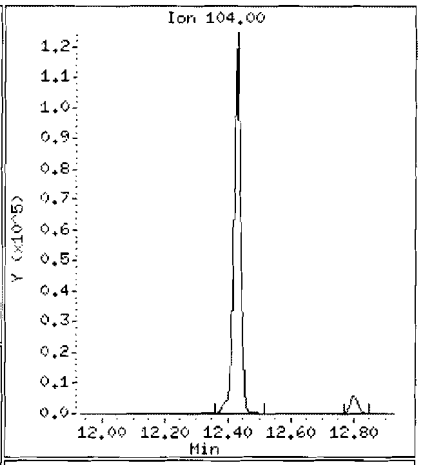
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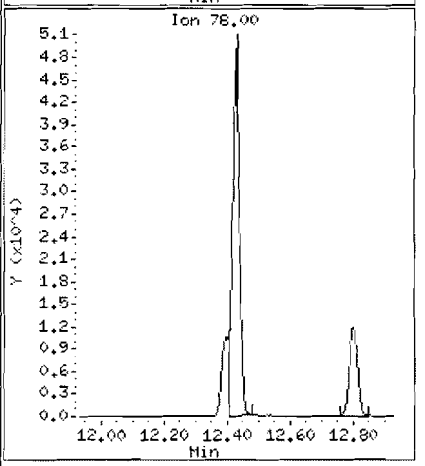
Column diameter: 0.18

40 styrene

Concentration: 99.81 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

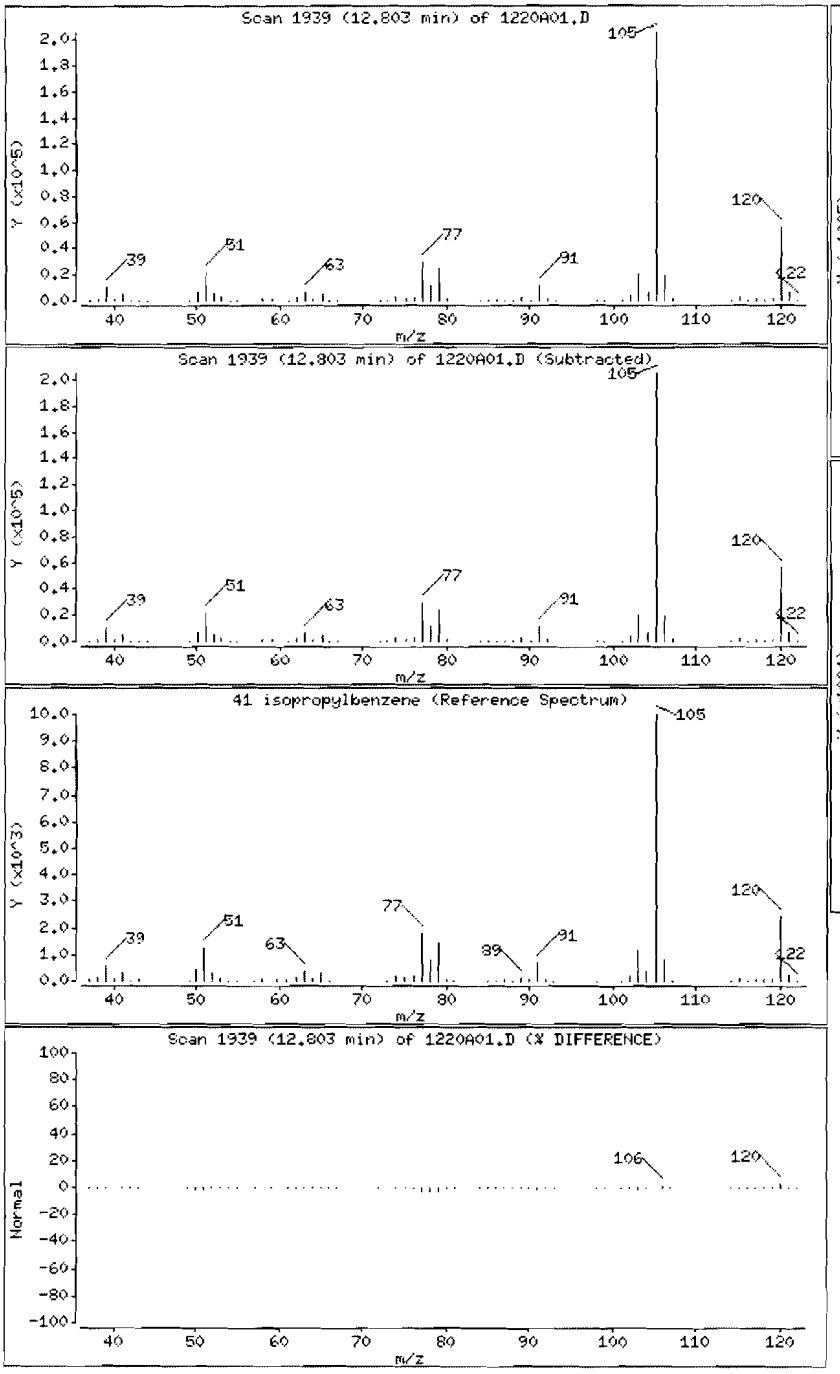
Operator: kl

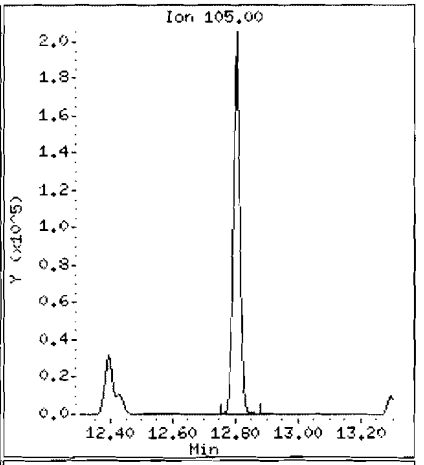
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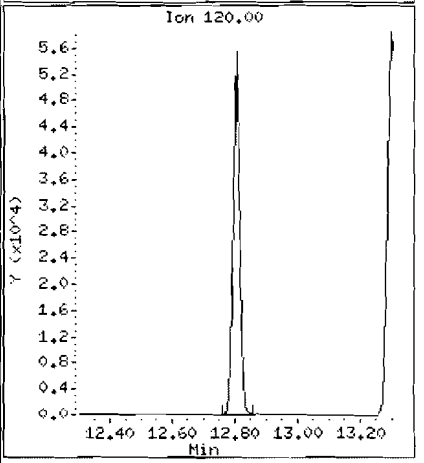
Column diameter: 0.18

41 isopropylbenzene

Concentration: 98.91 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

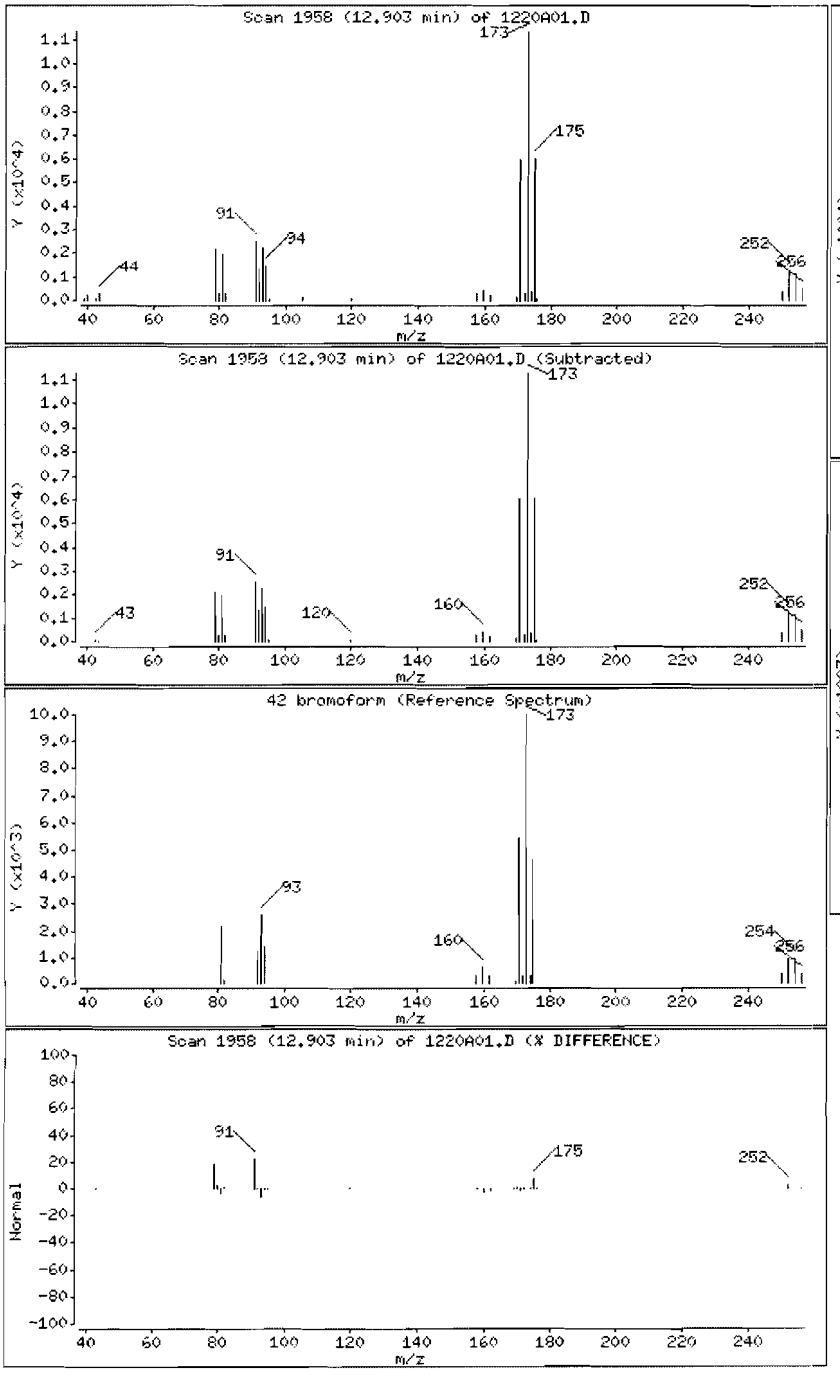
Operator: kl

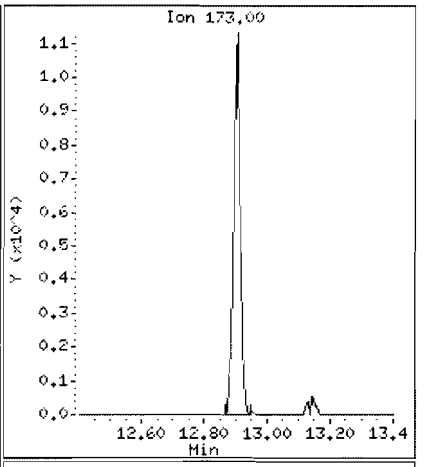
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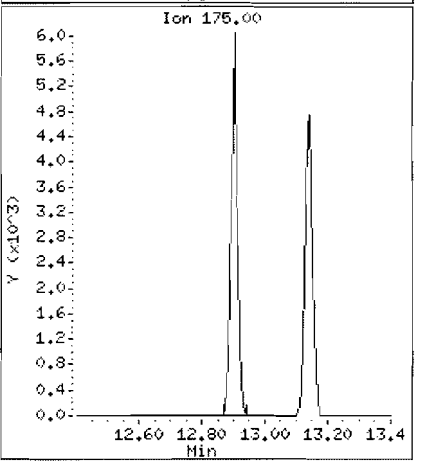
Column diameter: 0.18

42 bromoform

Concentration: 83.24 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

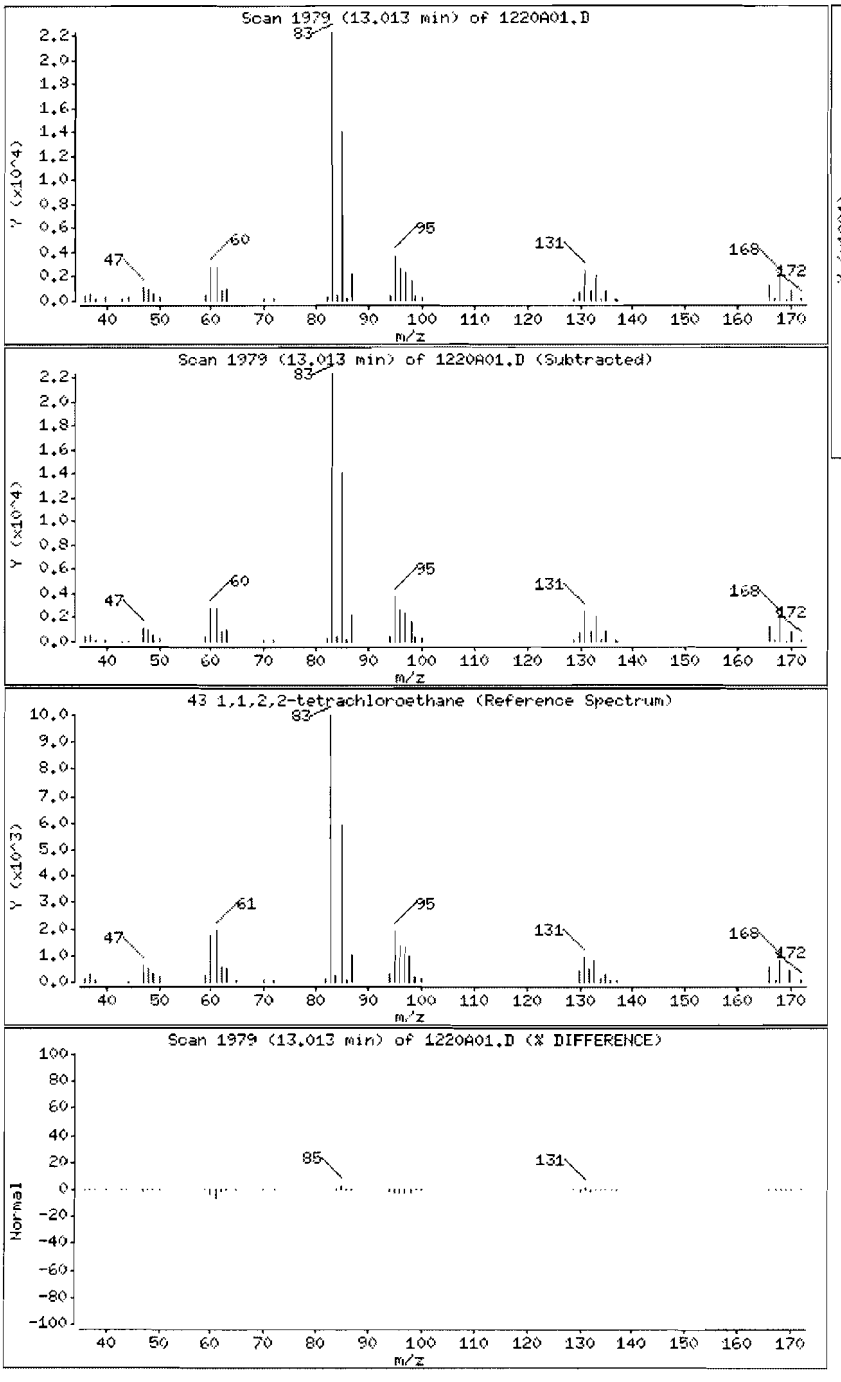
Operator: kl

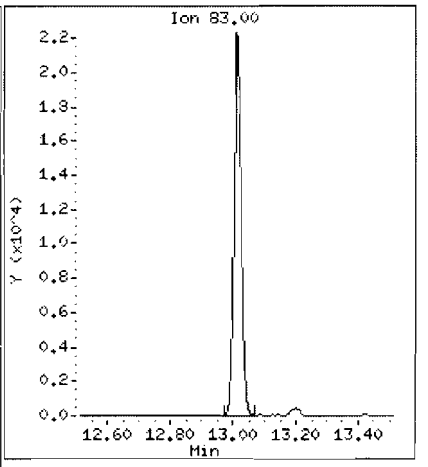
Column phase:

Column diameter: 0.18

43 1,1,2,2-tetrachloroethane

Concentration: 94.59 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

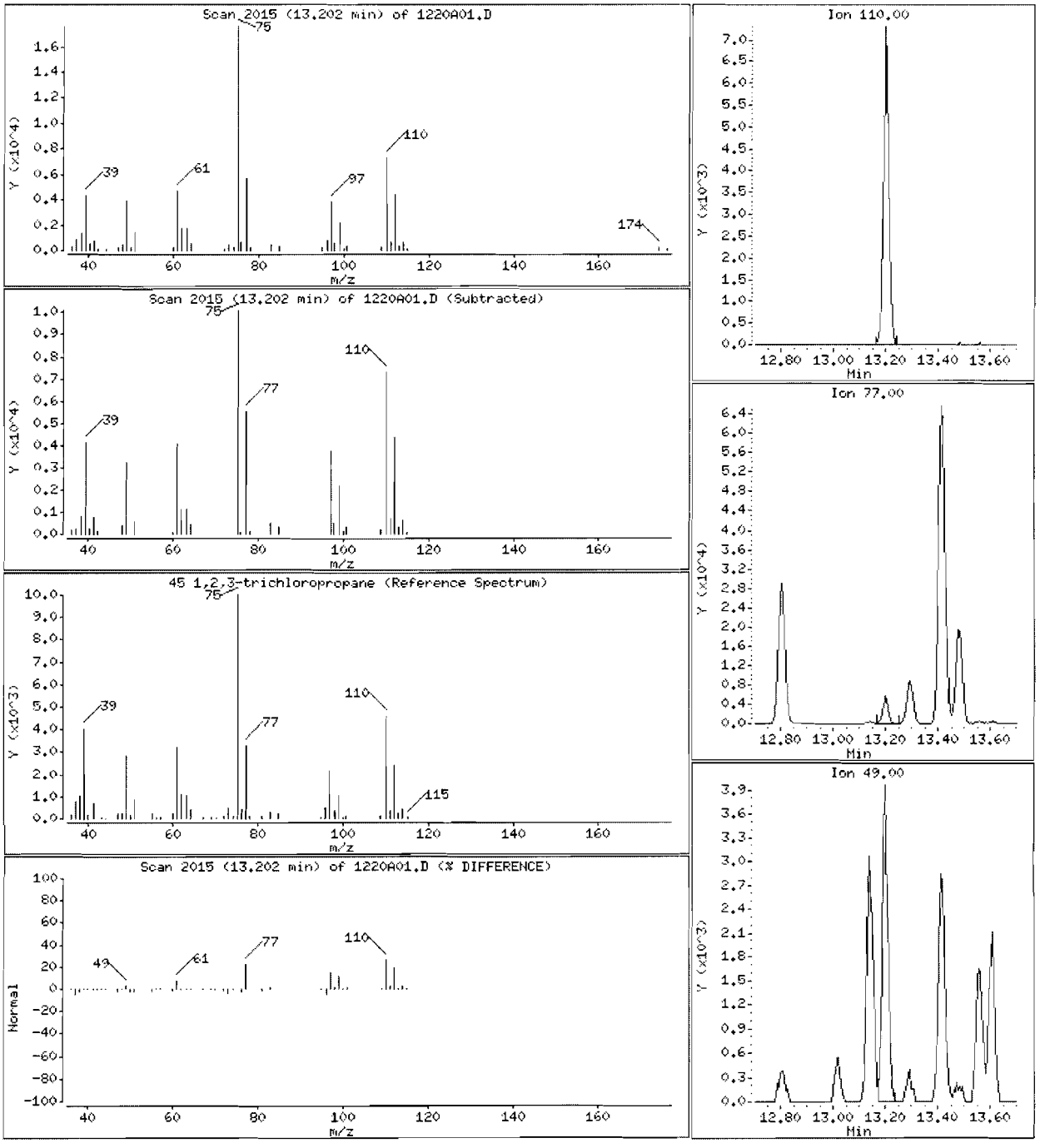
Operator: kl

Column phase:

Column diameter: 0.18

45 1,2,3-trichloropropane

Concentration: 99.34 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

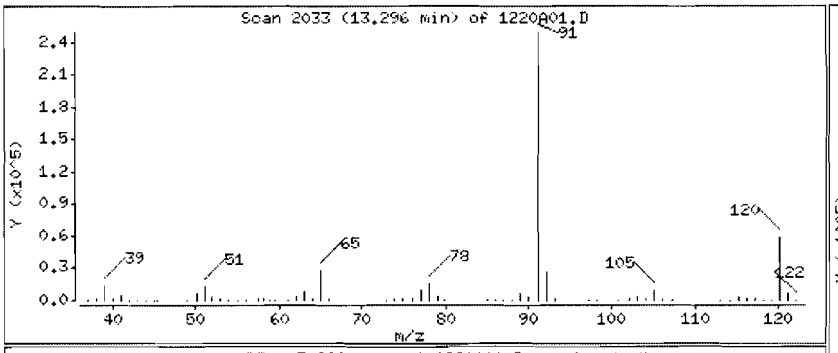
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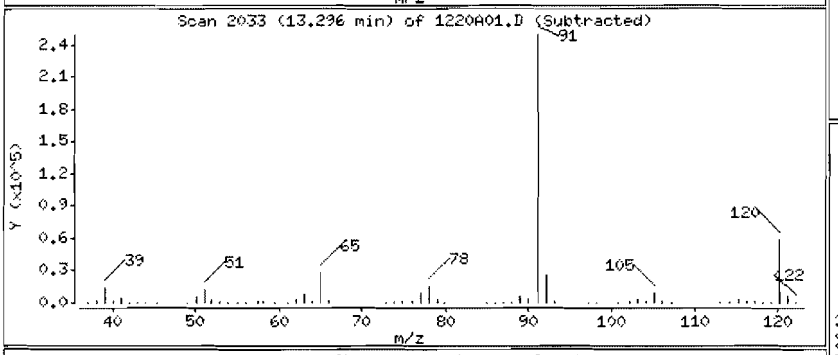
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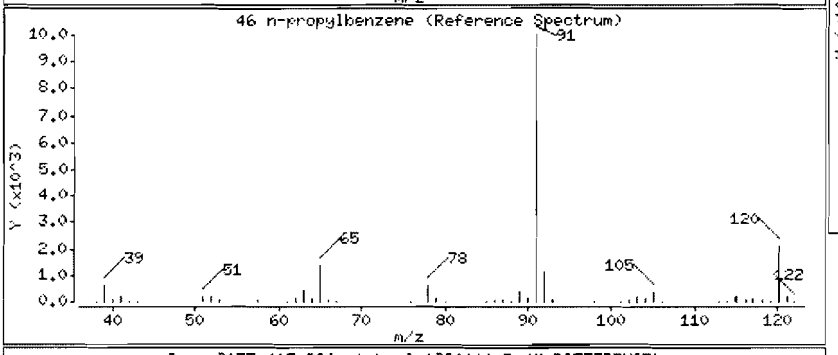
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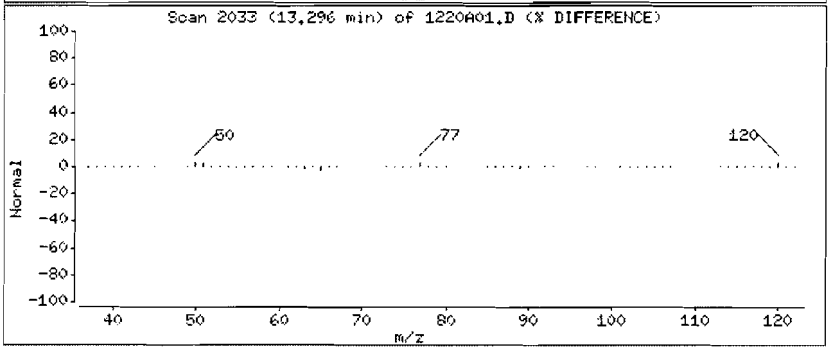
46 n-propylbenzene

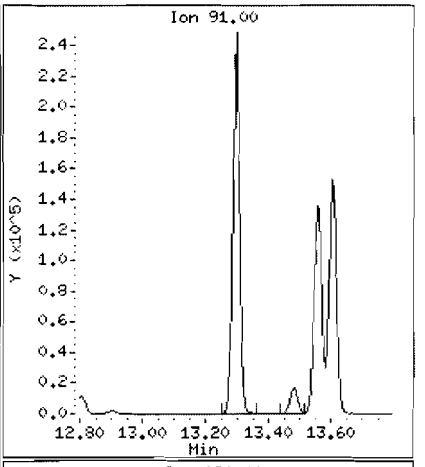
Concentration: 97.32 ngs

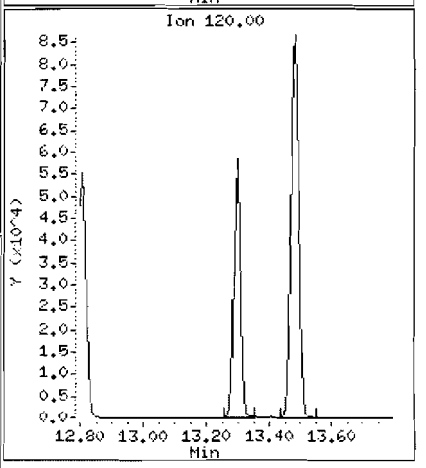












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

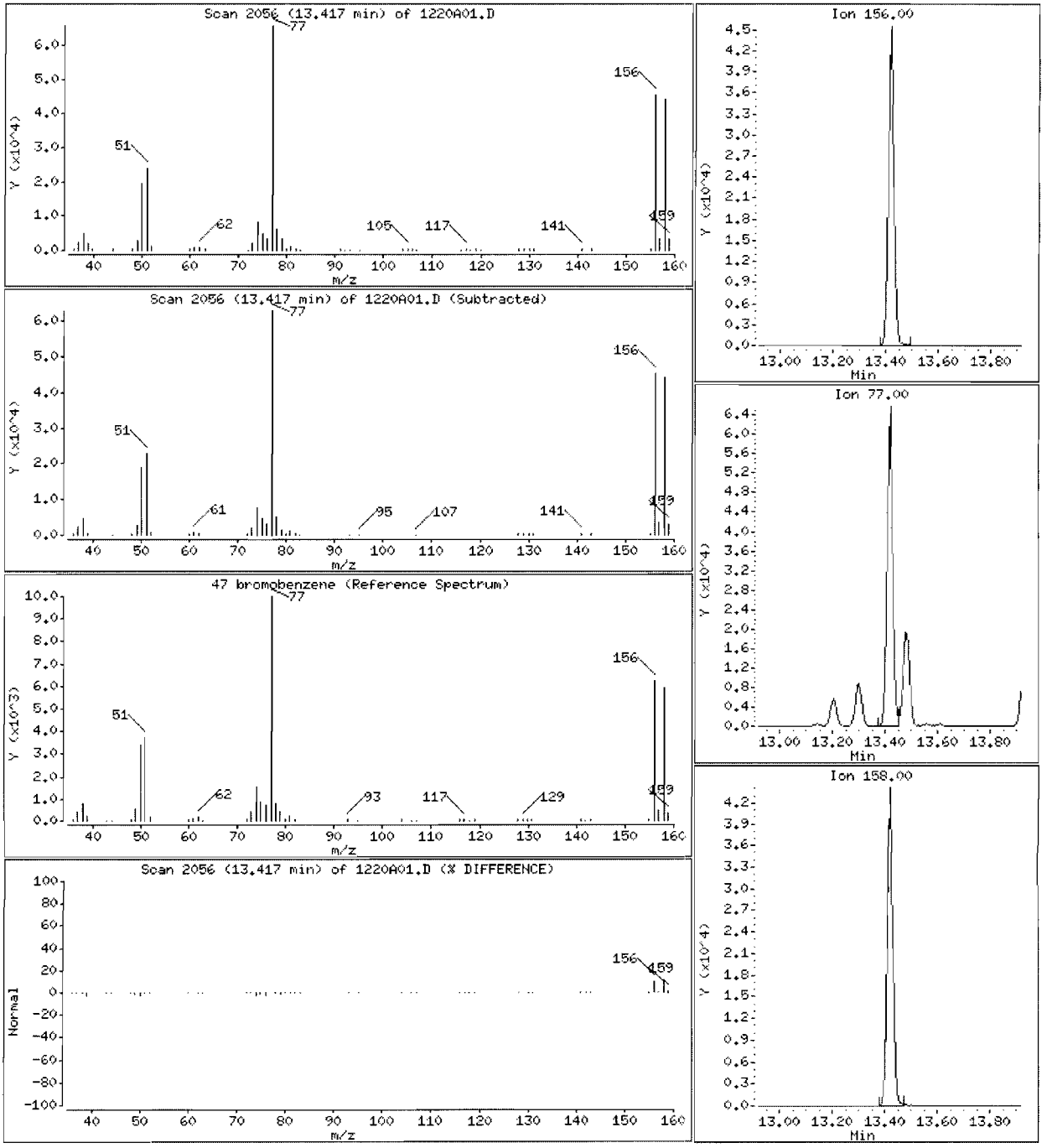
Operator: kl

Column phase:

Column diameter: 0.18

47 bromobenzene

Concentration: 96.58 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

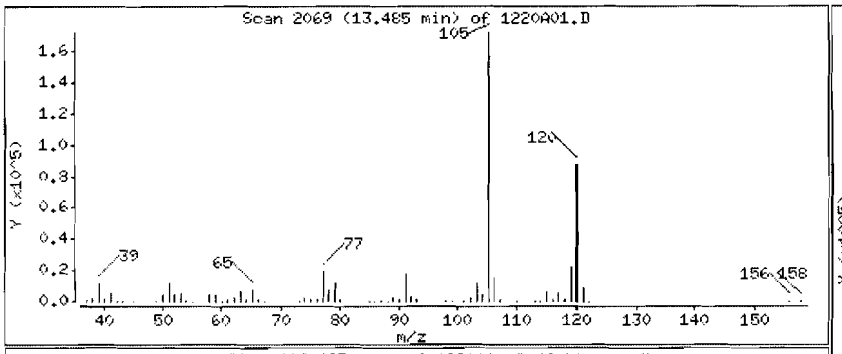
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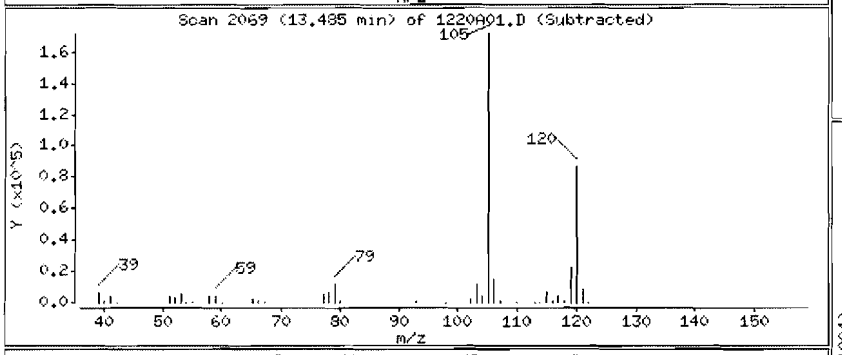
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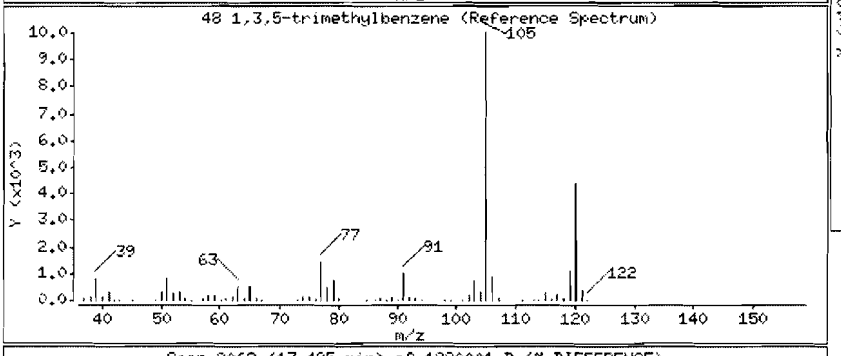
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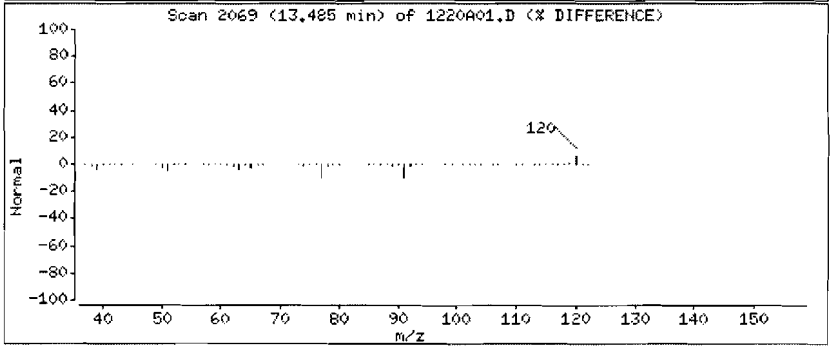
48 1,3,5-trimethylbenzene

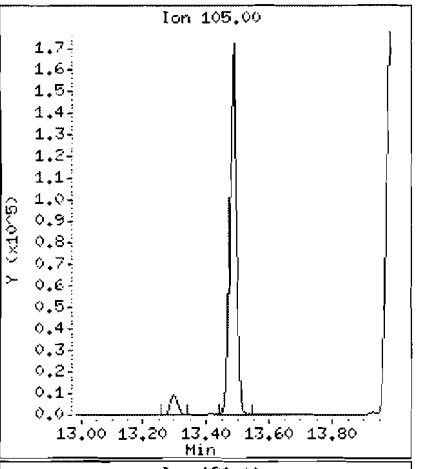
Concentration: 98.41 ngs

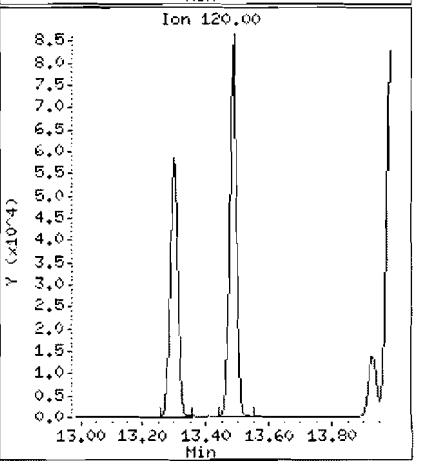












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

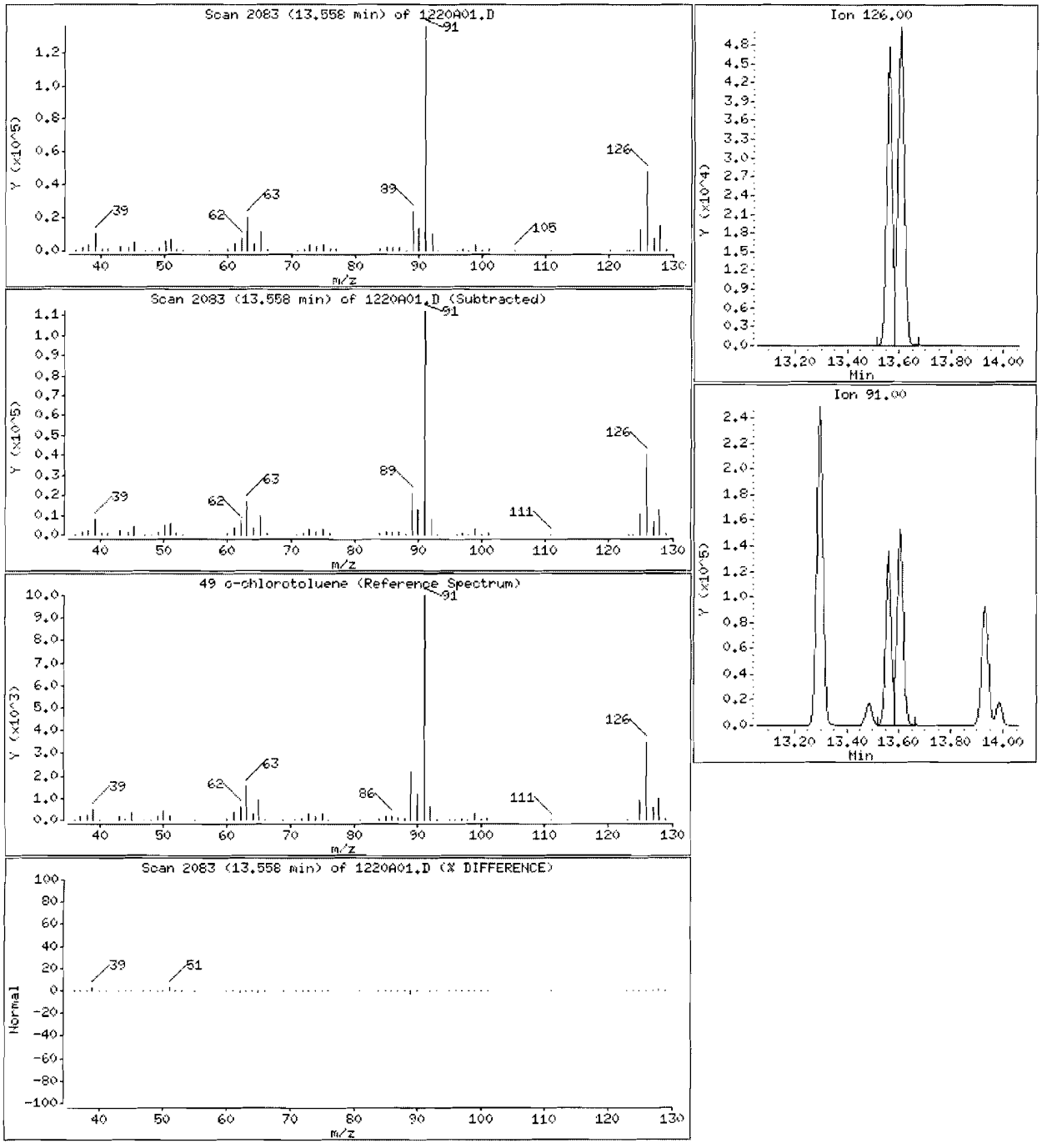
Operator: kl

Column phase:

Column diameter: 0.18

49 o-chlorotoluene

Concentration: 98.61 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

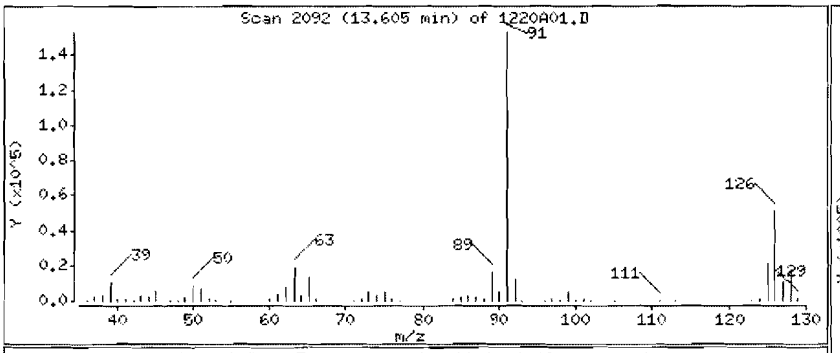
Operator: kl

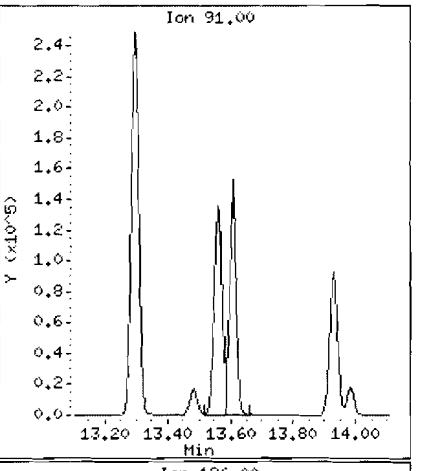
Column phase:

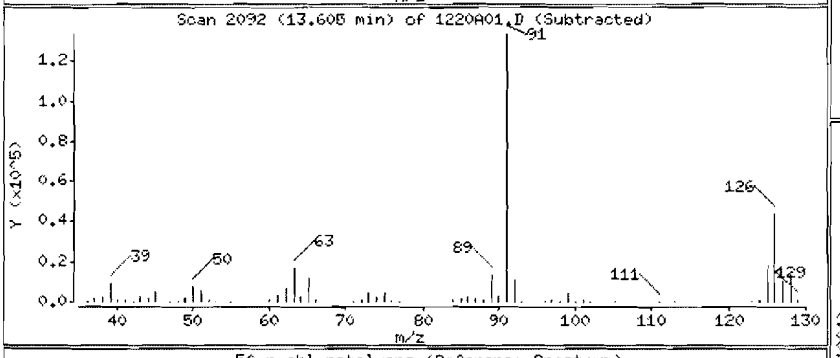
Column diameter: 0.18

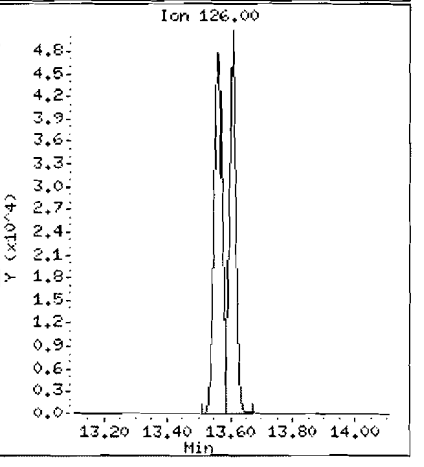
50 p-chlorotoluene

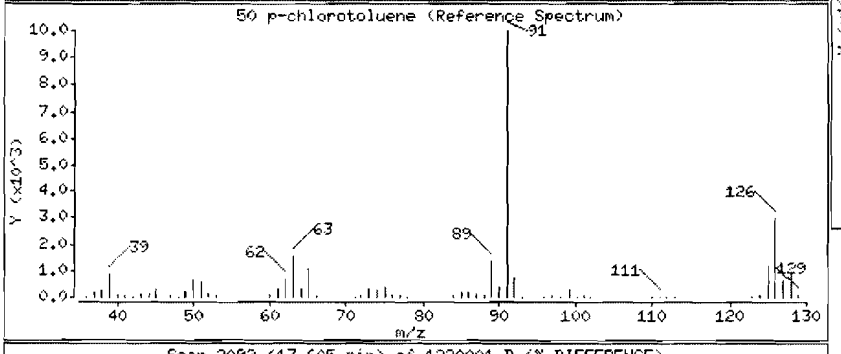
Concentration: 97.36 ngs

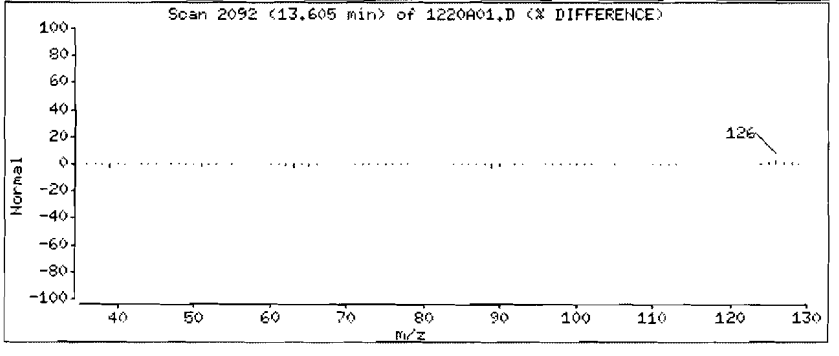












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

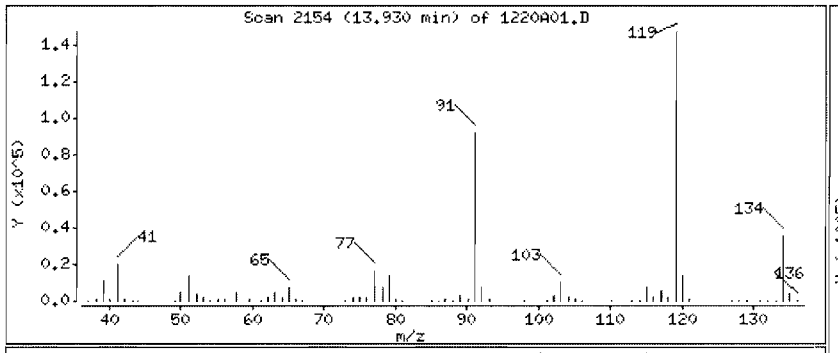
Operator: kl

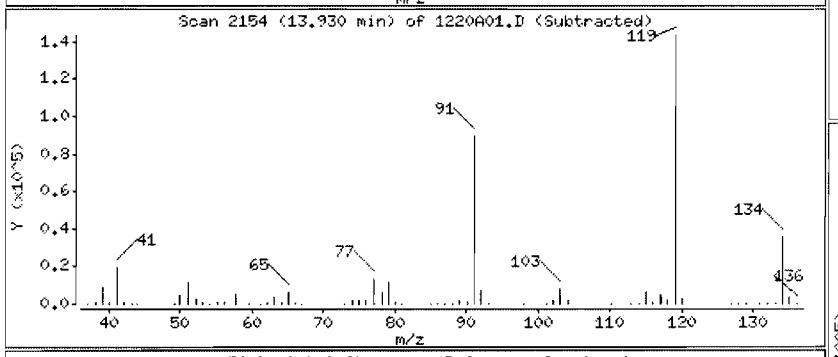
Column phase:

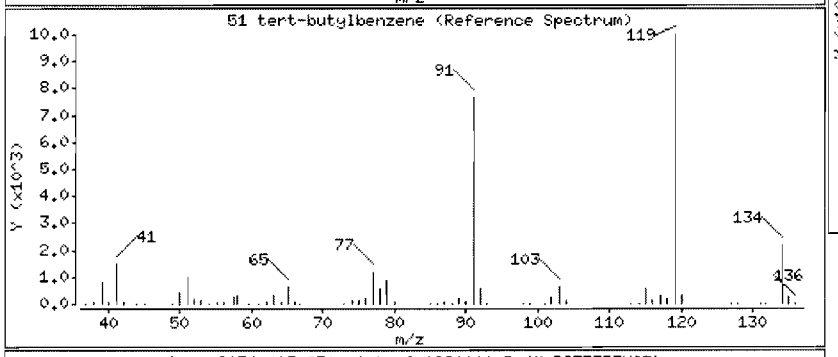
Column diameter: 0.18

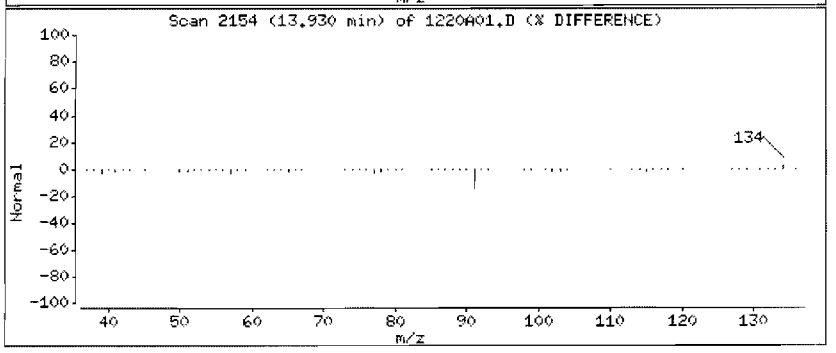
51 tert-butylbenzene

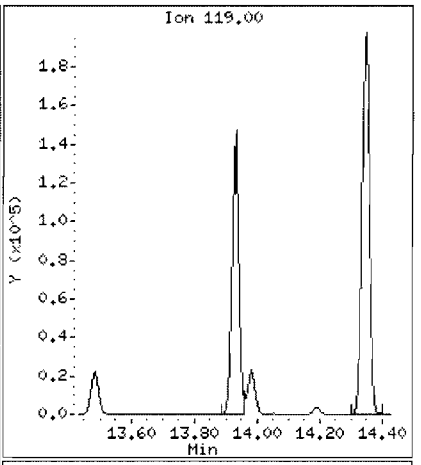
Concentration: 97.14 ngs

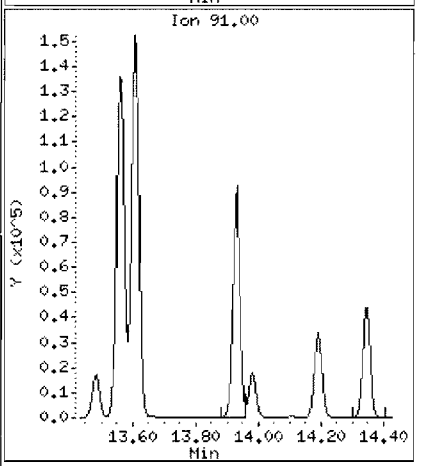












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D Page 55

Date : 20-DEC-2012 09:09

Client ID: Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D Page 57

Date : 20-DEC-2012 09:09

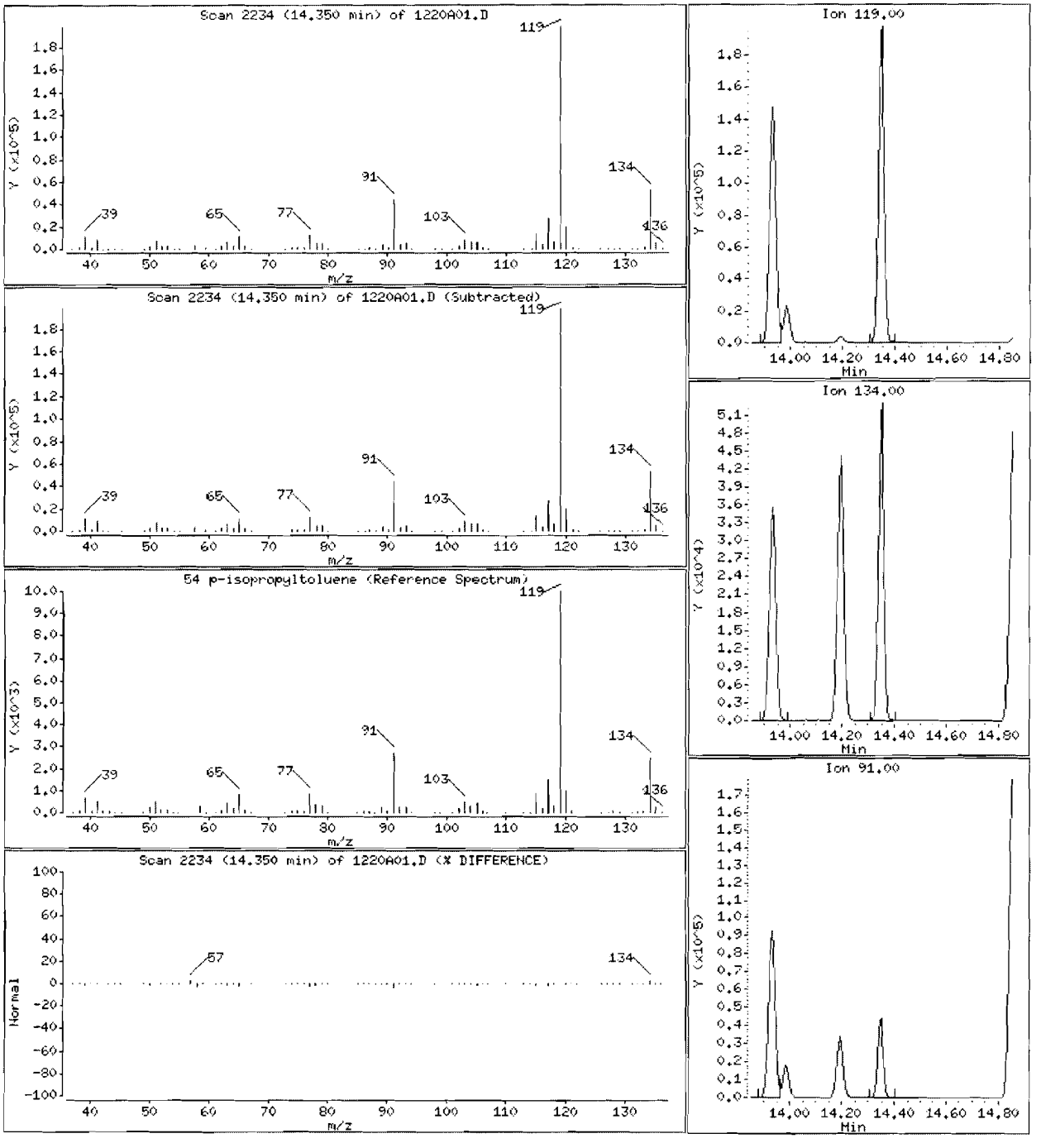
Client ID: Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0 Operator: kl

Column phase: Column diameter: 0.18

54 p-isopropyltoluene Concentration: 97.63 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

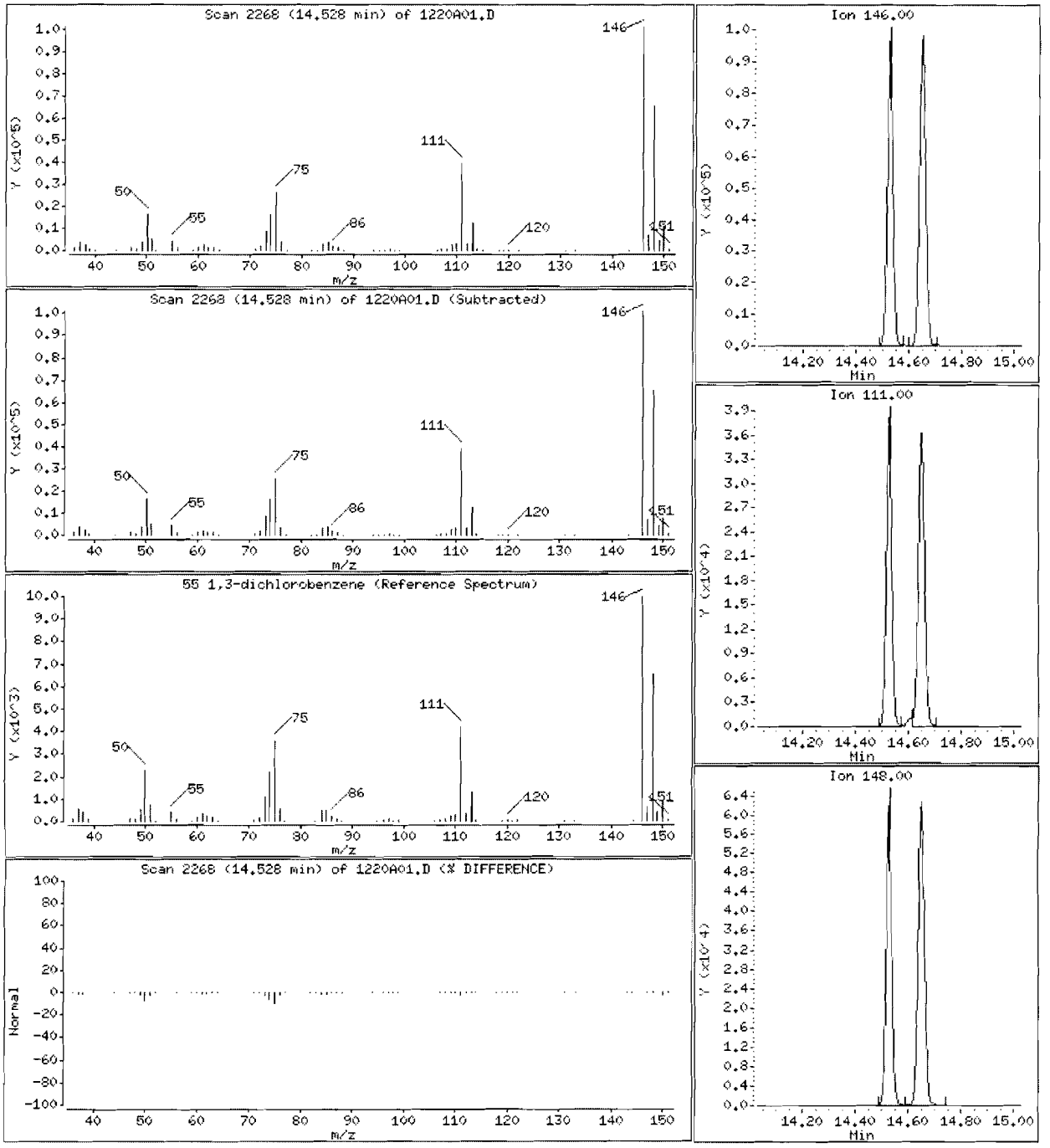
Operator: kl

Column phase:

Column diameter: 0.18

55 1,3-dichlorobenzene

Concentration: 93.07 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

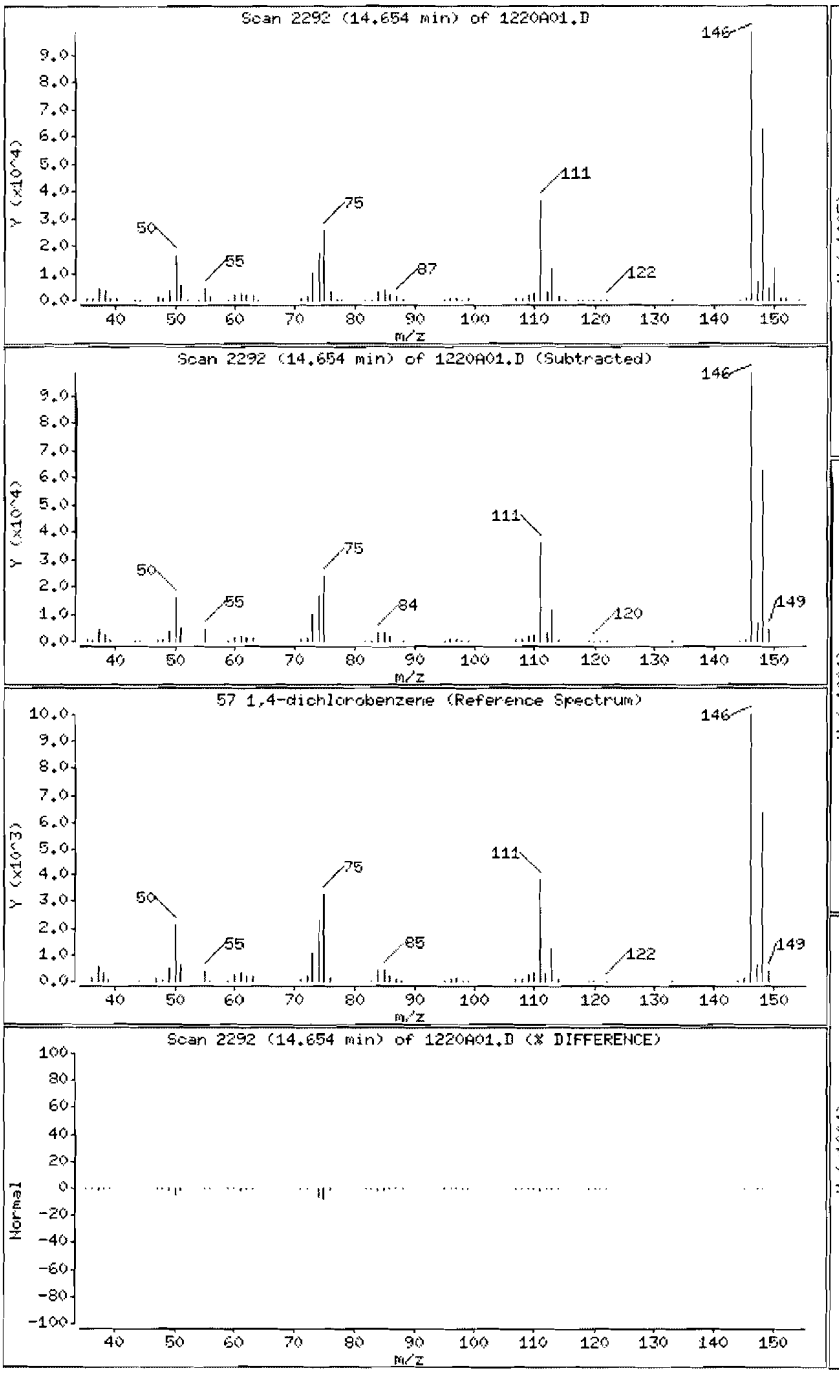
Operator: kl

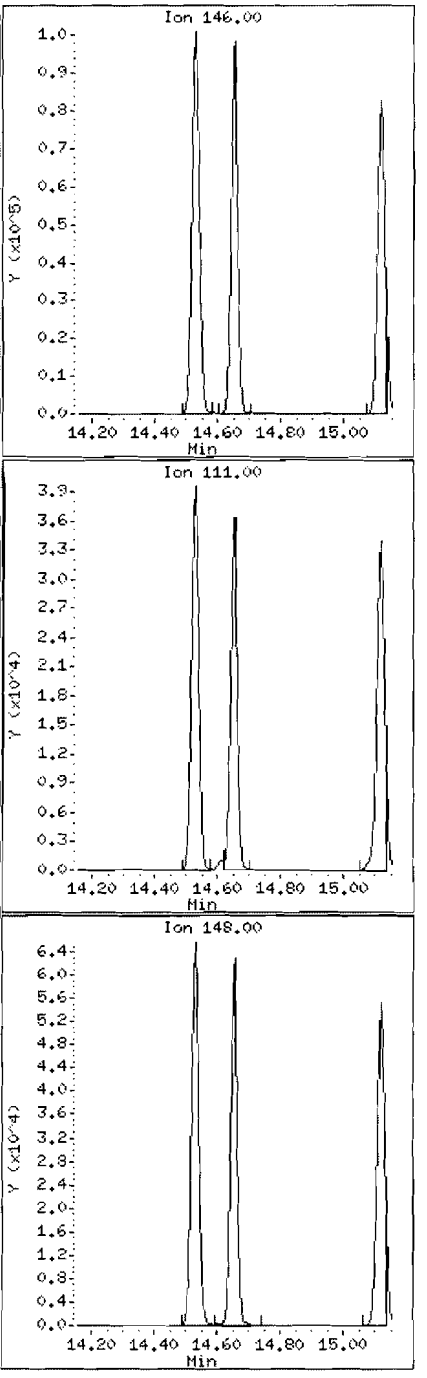
Column phase:

Column diameter: 0.18

57 1,4-dichlorobenzene

Concentration: 95.68 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

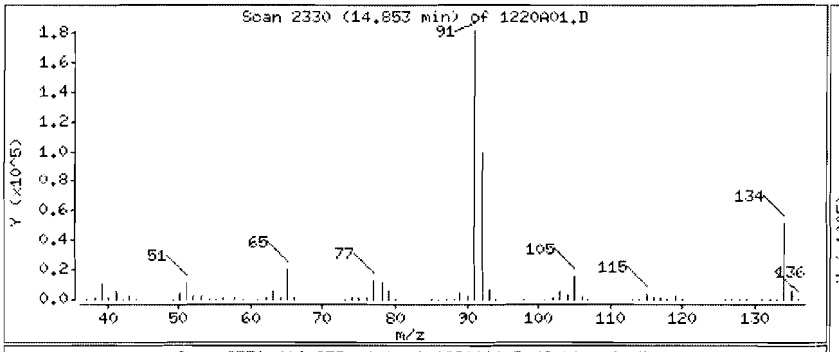
Operator: kl

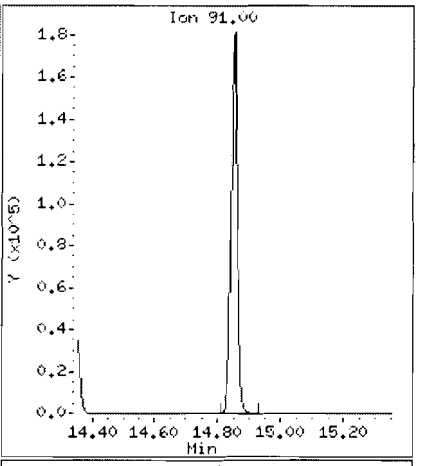
Column phase:

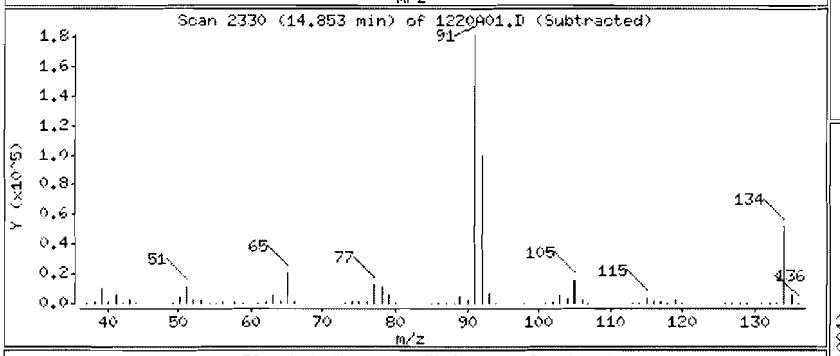
Column diameter: 0.18

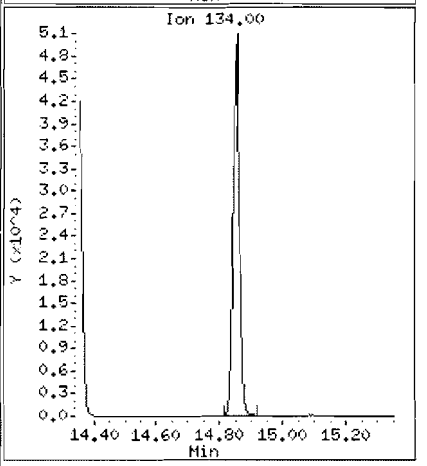
58 n-butylbenzene

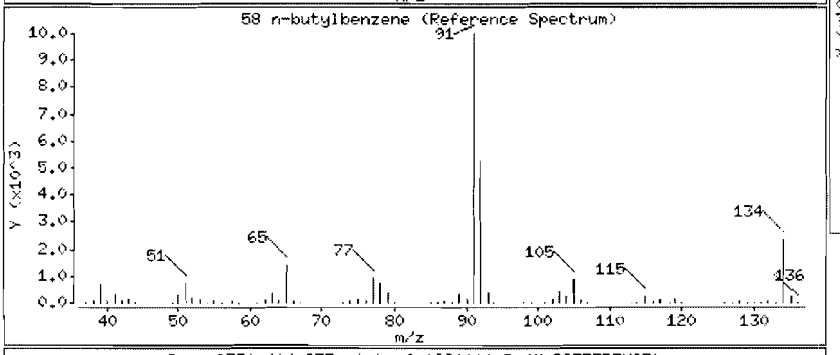
Concentration: 96.47 ngs

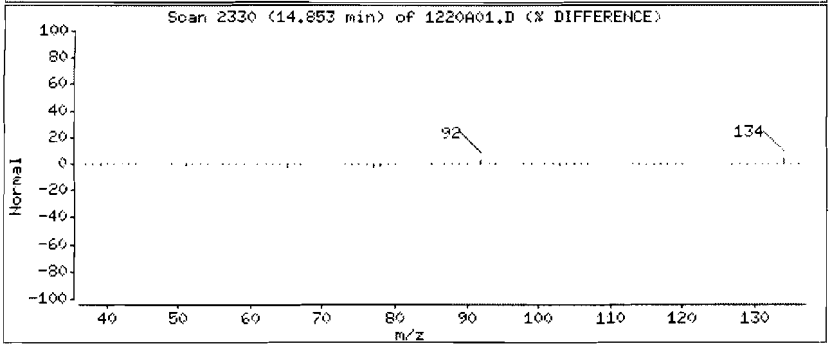












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

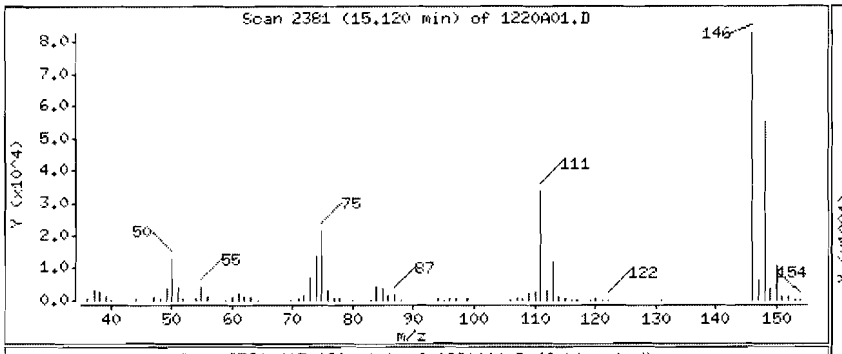
Operator: kl

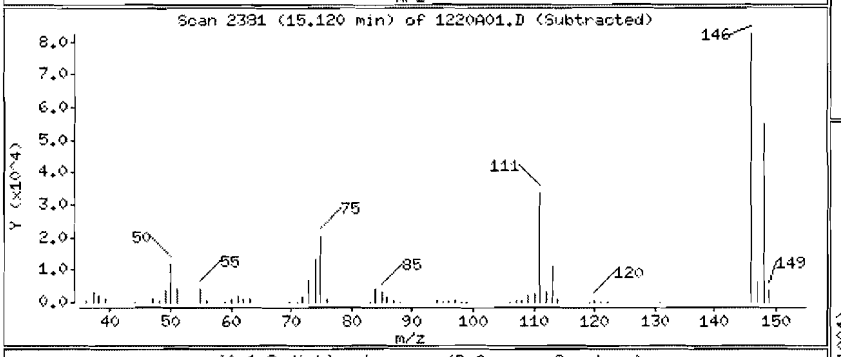
Column phase:

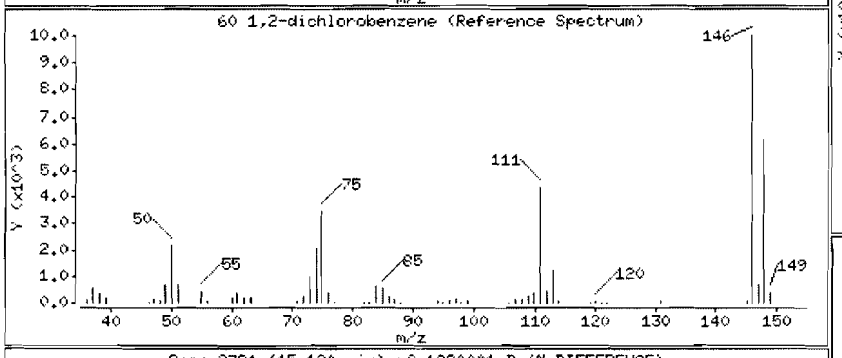
Column diameter: 0.18

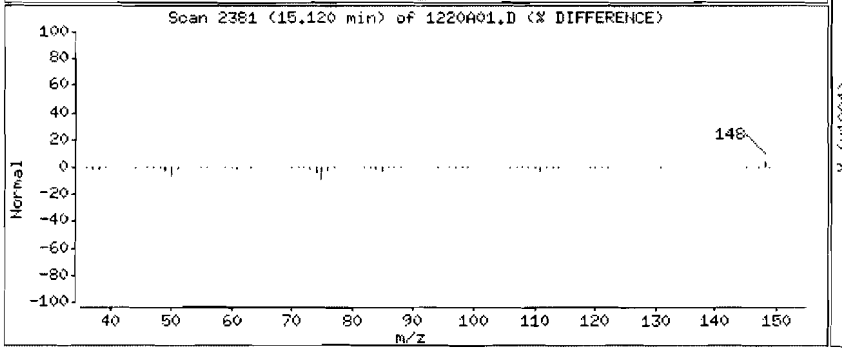
60 1,2-dichlorobenzene

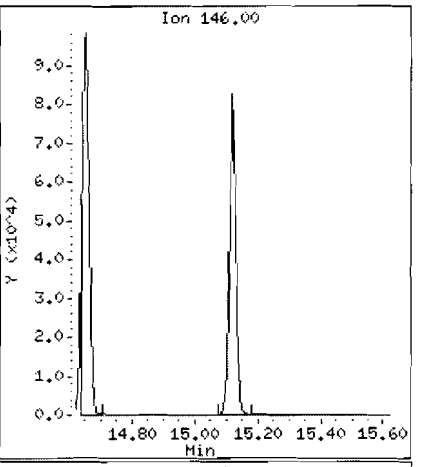
Concentration: 34.87 ngs

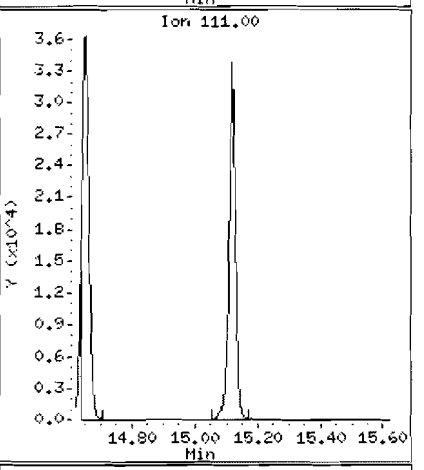


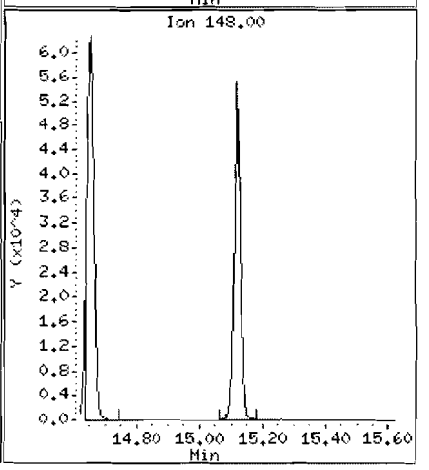












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

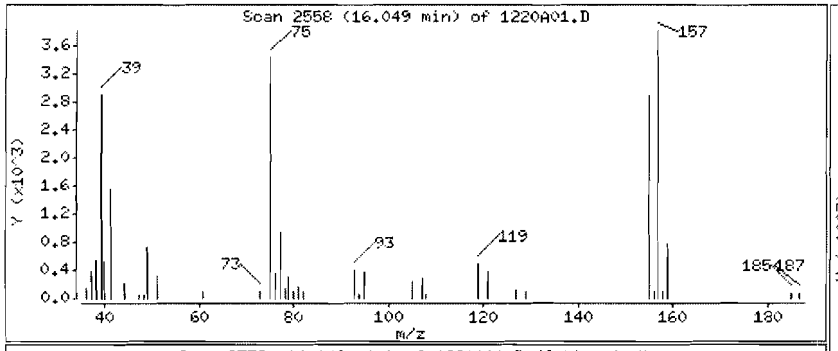
Operator: kl

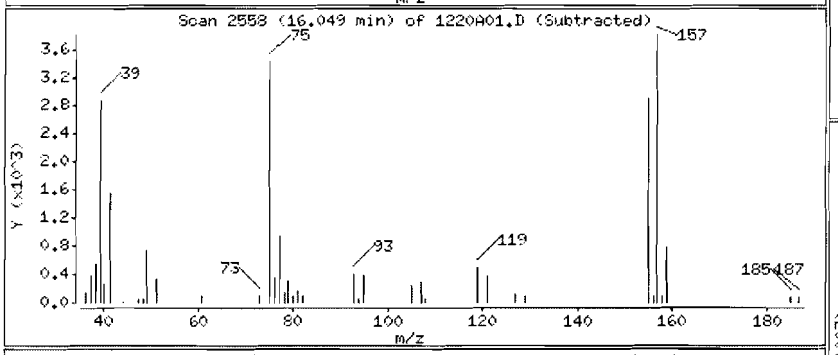
Column phase:

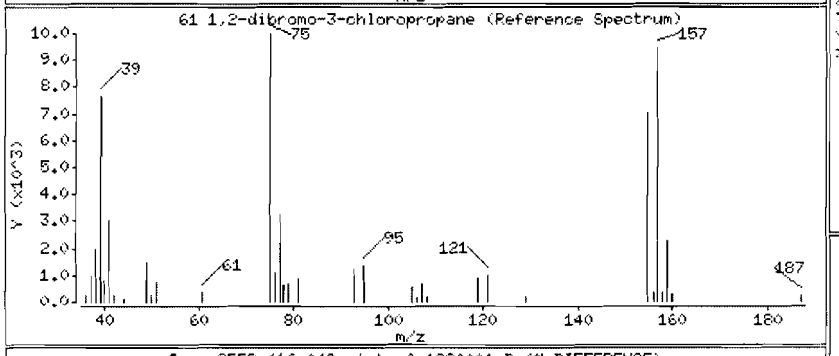
Column diameter: 0.18

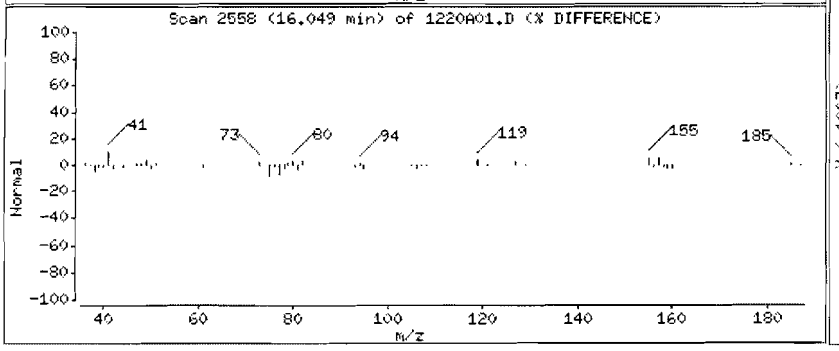
61 1,2-dibromo-3-chloropropane

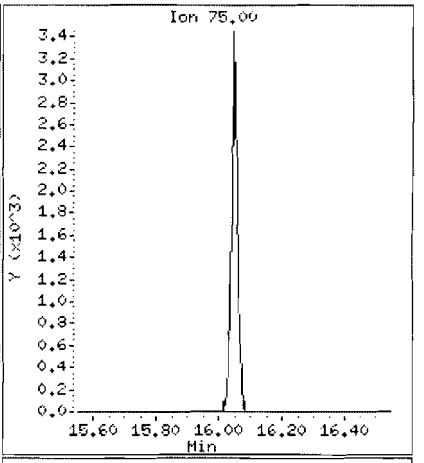
Concentration: 33.68 ngs

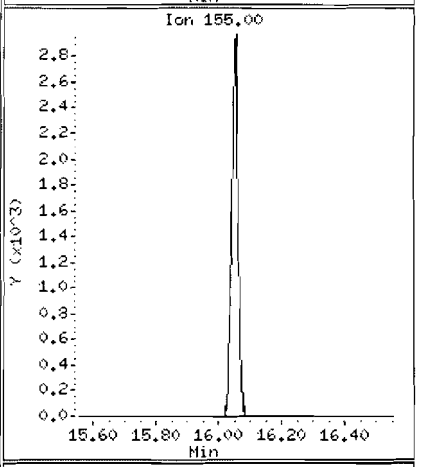


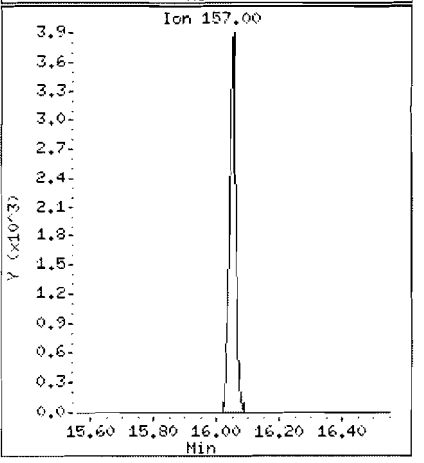












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

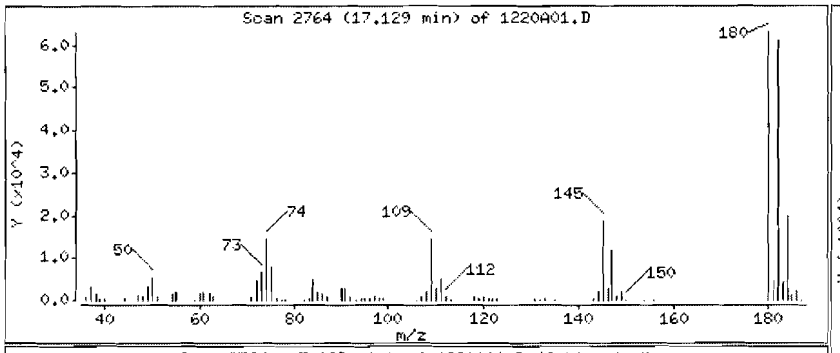
Operator: kl

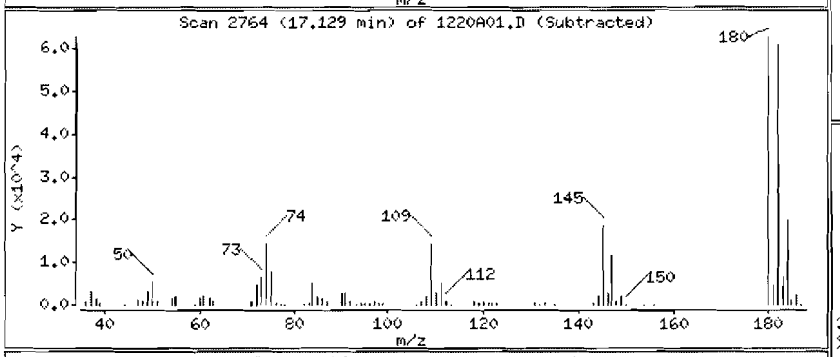
Column phase:

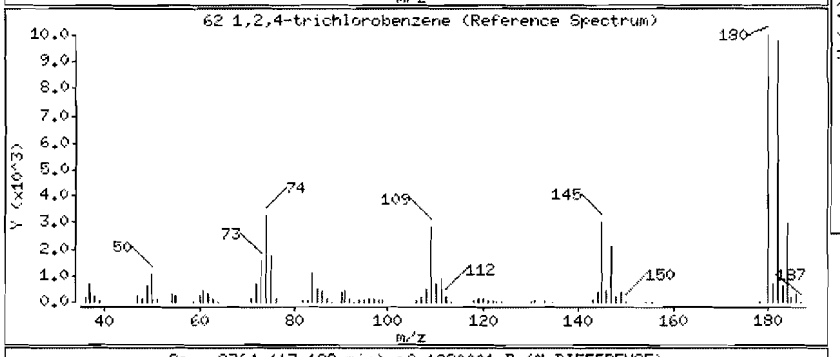
Column diameter: 0.18

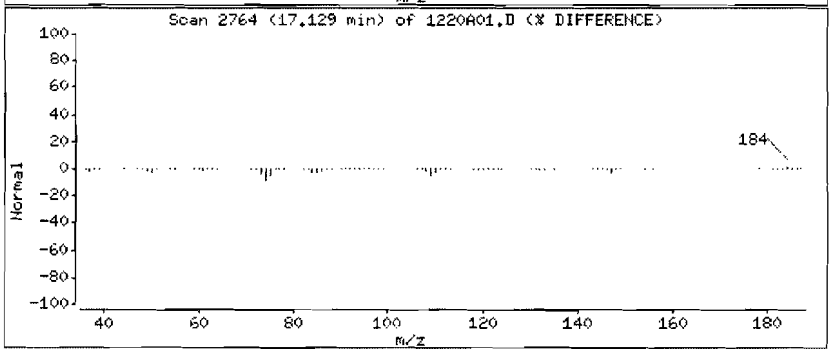
62 1,2,4-trichlorobenzene

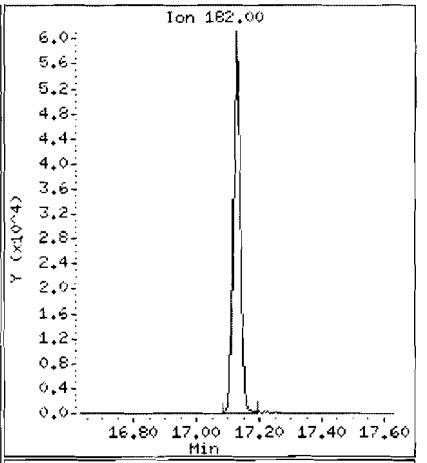
Concentration: 96.35 ngs

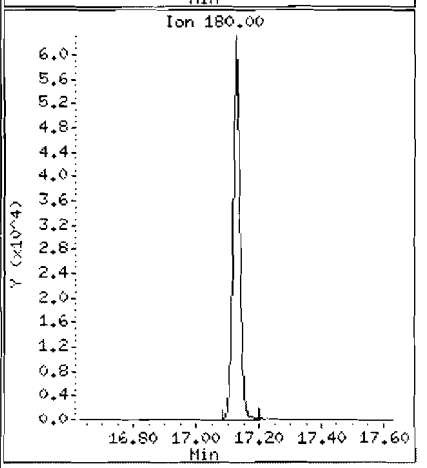












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

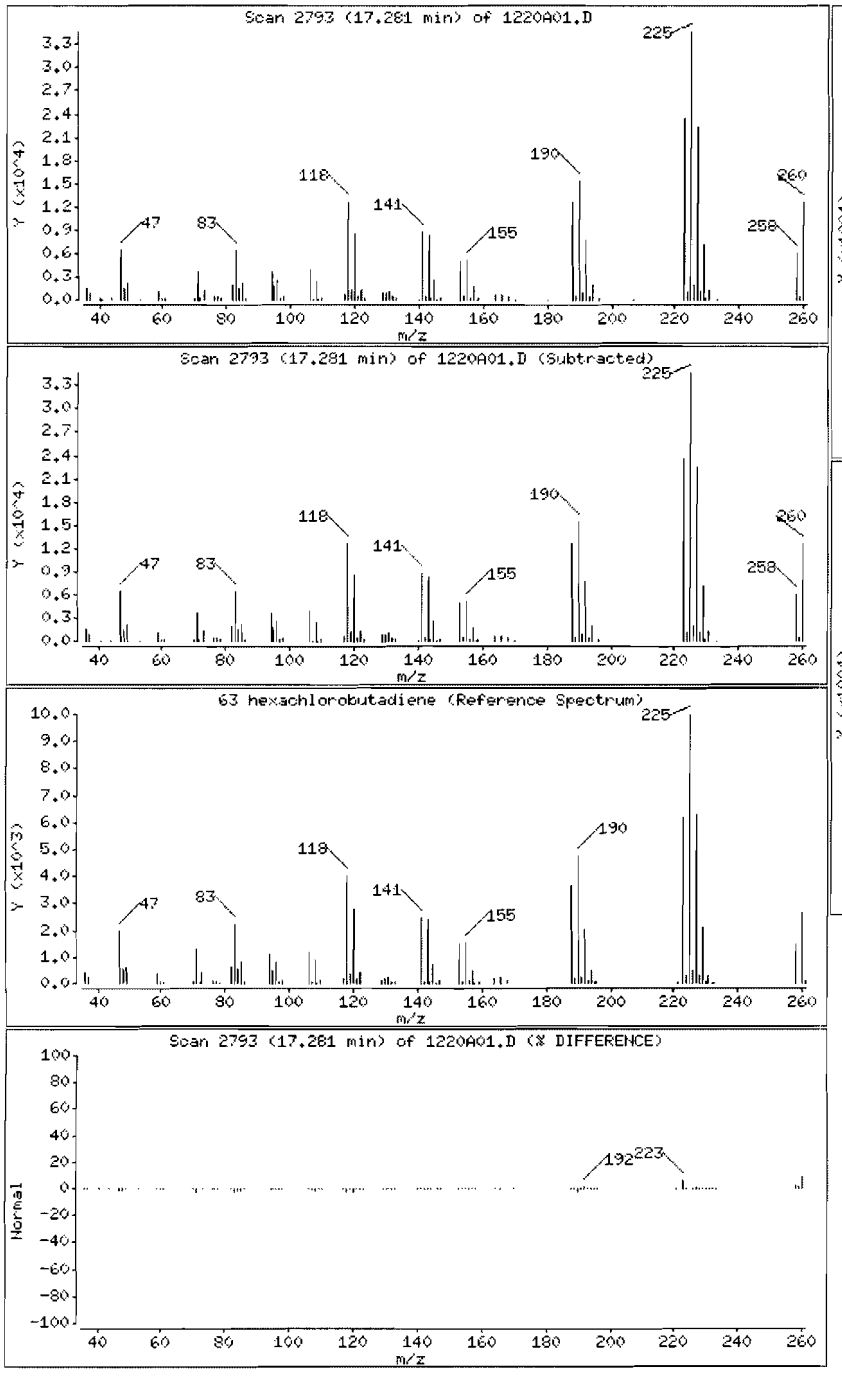
Operator: kl

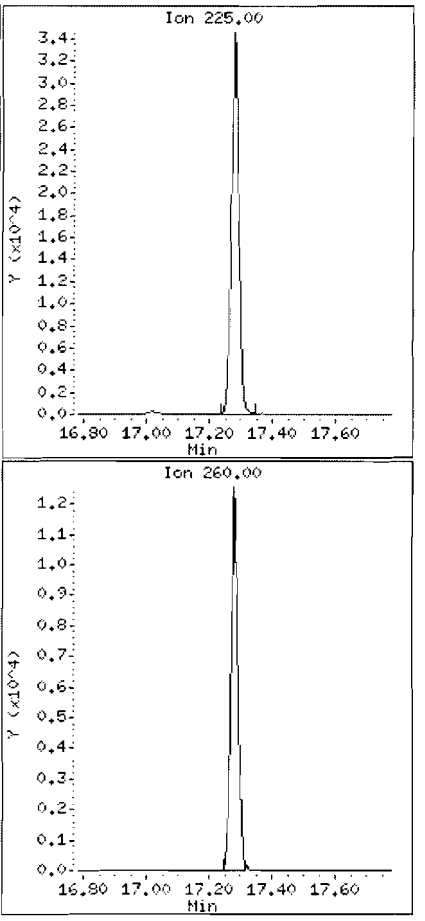
Column phase:

Column diameter: 0.18

63 hexachlorobutadiene

Concentration: 95.91 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

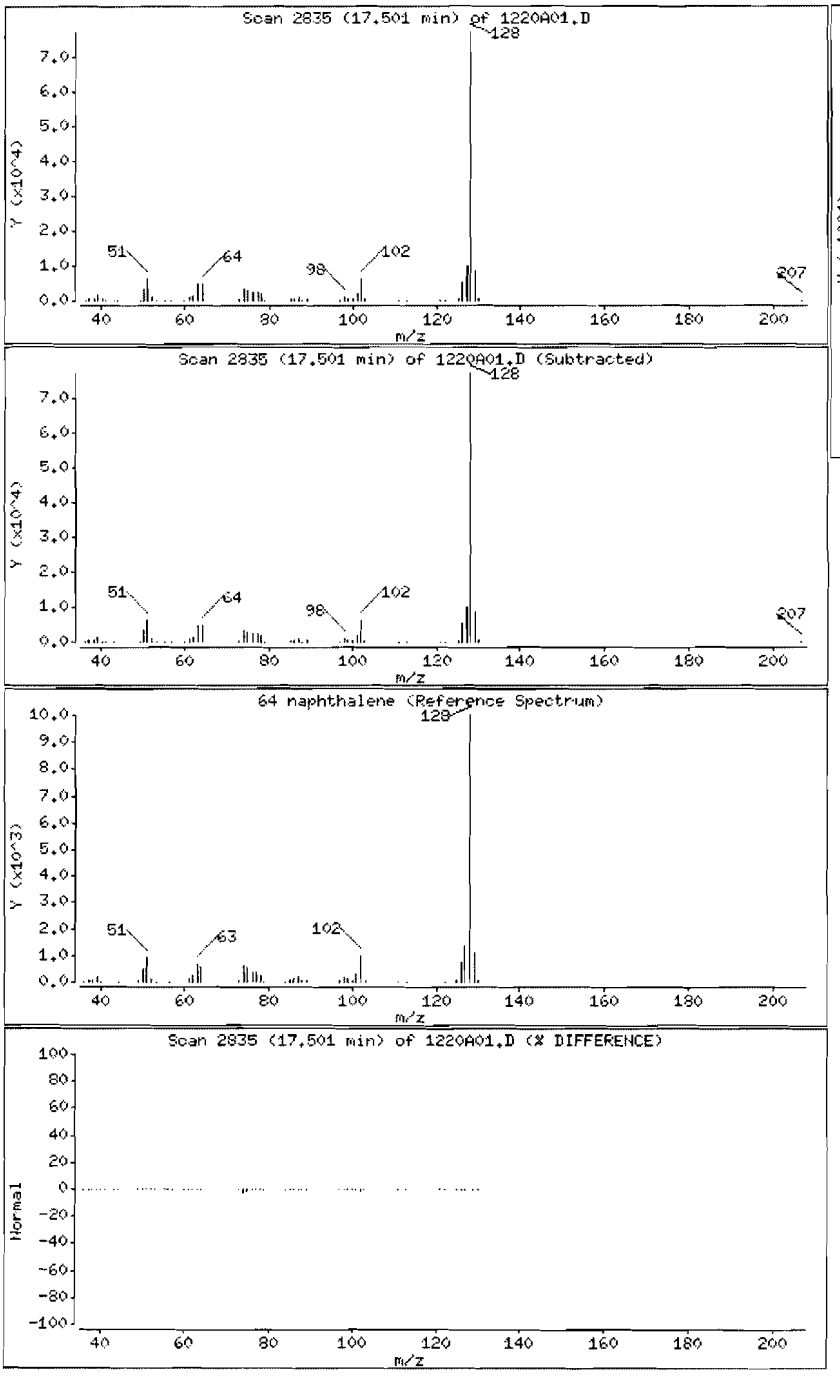
Operator: kl

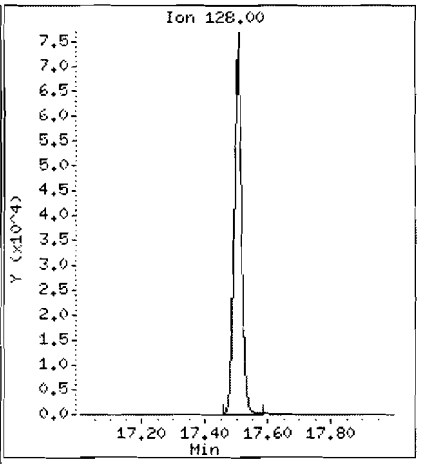
Column phase:

Column diameter: 0.18

64 naphthalene

Concentration: 30.62 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A01.D

Date : 20-DEC-2012 09:09

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-1,31,25

Purge Volume: 25.0

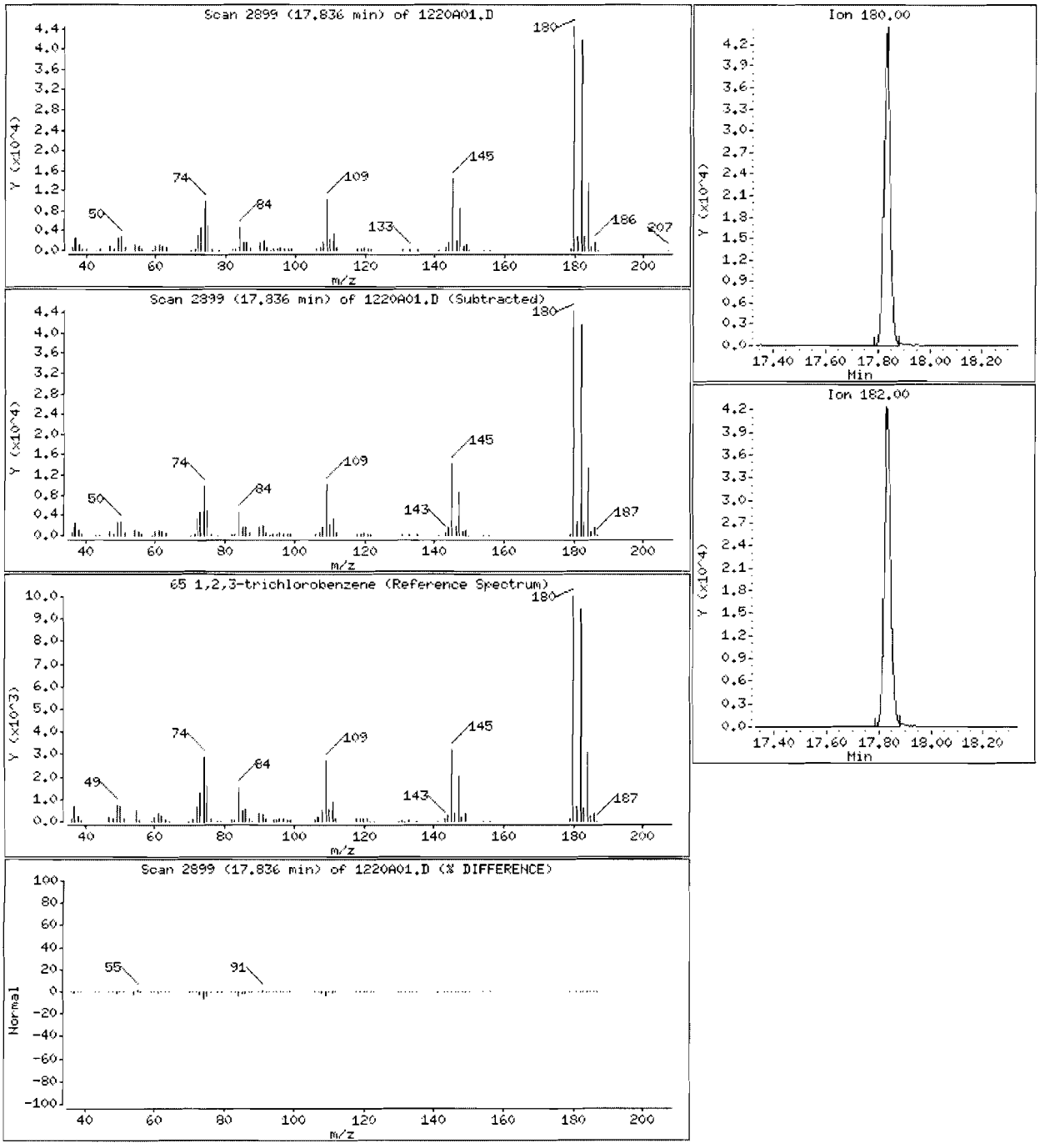
Operator: kl

Column phase:

Column diameter: 0.18

65 1,2,3-trichlorobenzene

Concentration: 93.46 ngs



Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\Orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A13.D
Lab Smp Id:
Inj Date : 20-DEC-2012 16:28
Operator : kl Inst ID: Bundy.i
Smp Info : wg580980-3,31,25,,b
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 29-Dec-2012 12:00 pduczmalew Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-76524

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

	Compounds	QUANT S.I.G. MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	REVIEW CODE
1	Dichlorodifluoromethane	85	Compound Not Detected.						
2	Chloromethane	50	Compound Not Detected.						
3	Vinyl chloride	62	Compound Not Detected.						
4	Bromomethane	94	Compound Not Detected.						
5	Chloroethane	64	Compound Not Detected.						
6	Trichlorofluoromethane	101	Compound Not Detected.						
7	1,1-dichloroethene	96	Compound Not Detected.						
8	Methylene chloride	84	Compound Not Detected.						
9	Methyl-tert-butyl ether	73	Compound Not Detected.						
10	trans-1,2-dichloroethene	96	Compound Not Detected.						
11	1,1-dichloroethane	63	Compound Not Detected.						
12	2,2-dichloropropane	77	Compound Not Detected.						
13	cis-1,2-dichloroethene	96	6.471	6.472	(0.550)	6525	9.99192	9.96	
14	Chloroform	83	Compound Not Detected.						M2
15	Bromochloromethane	128	Compound Not Detected.						
16	1,1,1-trichloroethane	97	Compound Not Detected.						
17	1,1-dichloropropene	75	Compound Not Detected.						
18	Carbon tetrachloride	117	Compound Not Detected.						
19	1,2-dichloroethane	62	Compound Not Detected.						
20	Benzene	78	Compound Not Detected.						
* 21	Fluorobenzene	96	8.706	8.714	(1.000)	224412	150.00		
22	Trichloroethene	95	8.634	8.634	(1.00)	14761	14.7360	14.73	
23	1,2-dichloropropane	63	Compound Not Detected.						
24	Dibromomethane	93	Compound Not Detected.						
25	Bromodichloromethane	83	Compound Not Detected.						
26	cis-1,3-dichloropropene	75	Compound Not Detected.						
27	Toluene	92	Compound Not Detected.						
28	trans-1,3-dichloropropene	75	Compound Not Detected.						

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/L)	REVIEW CODE
	49	1,1,2-trichloroethane	83	Compound Not Detected.						
	50	1,3-dichloropropane	76	Compound Not Detected.						
	51	tetrachloroethene	166	10.784	10.784	(1.000)	965115	477.414	477.41	
	52	dibromochloromethane	129	Compound Not Detected.						
	53	1,2-dibromoethane	107	Compound Not Detected.						
*	54	Chlorobenzene-d5	117	11.696	11.696	(1.000)	224671	150.000		
	55	chlorobenzene	112	Compound Not Detected.						
	56	ethylbenzene	91	Compound Not Detected.						
	57	1,1,1,2-tetrachloroethane	131	Compound Not Detected.						
	58	p/m-xylenes	106	Compound Not Detected.						
	59	o-xylene	106	Compound Not Detected.						
	60	styrene	104	Compound Not Detected.						
	61	isopropylbenzene	105	Compound Not Detected.						
	62	bromoform	173	Compound Not Detected.						
	63	1,1,2,2-tetrachloroethane	83	Compound Not Detected.						
S	64	4-Bromofluorobenzene	95	13.138	13.138	(1.000)	110114	141.380	141.38	
	65	1,2,3-trichloropropane	110	Compound Not Detected.						
	66	n-propylbenzene	91	Compound Not Detected.						
	67	bromobenzene	156	Compound Not Detected.						
	68	1,3,5-trimethylbenzene	105	Compound Not Detected.						
	69	2-chlorotoluene	126	Compound Not Detected.						
	70	p-chlorotoluene	91	Compound Not Detected.						
	71	tert-butylbenzene	119	Compound Not Detected.						
	72	1,2,4,-trimethylbenzene	105	Compound Not Detected.						
	73	sec-butylbenzene	105	Compound Not Detected.						
	74	p-isopropyltoluene	119	Compound Not Detected.						
	75	1,3-dichlorobenzene	146	Compound Not Detected.						
*	76	1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	125659	154.000		
	77	1,4-dichlorobenzene	146	Compound Not Detected.						
	78	n-butylbenzene	91	Compound Not Detected.						
S	79	1,2-Dichlorobenzene-d4	152	15.029	15.029	(1.000)	126139	101.243	101.24	
	80	1,2-dichlorobenzene	146	Compound Not Detected.						
	81	1,2-dibromo-3-chloropropane	75	Compound Not Detected.						
	82	1,2,4-trichlorobenzene	180	Compound Not Detected.						
	83	hexachlorobutadiene	225	Compound Not Detected.						
	84	naphthalene	128	Compound Not Detected.						
	85	1,2,3-trichlorobenzene	180	Compound Not Detected.						
M	86	Xylene (total)	106	Compound Not Detected.						

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A13.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	234412	-8.97
34 Chlorobenzene-d5	246648	123324	493296	224691	-8.90
56 1,4-Dichlorobenze	135773	67887	271546	125035	-7.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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.

Alpha Analytical Labs

RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$ 44 4-bromofluorobenze	100.00	101.33	101.34	80-120
$ 59 1,2-Dichlorobenzen	100.00	101.26	101.26	80-120

Data File: \\Orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A13.D

Date : 20-DEC-2012 16:28

Client ID:

Instrument: Bundy.i

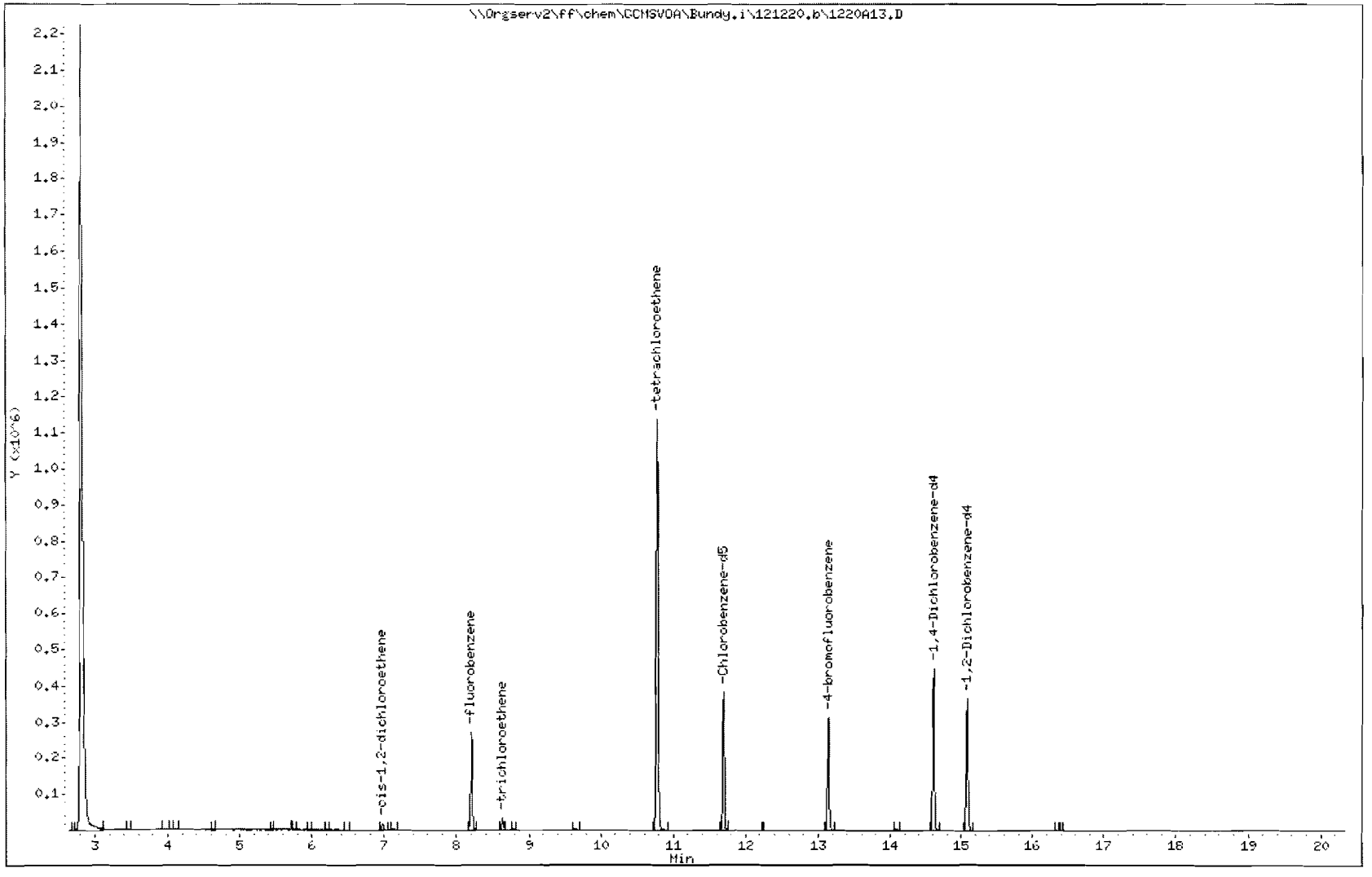
Sample Info: wg580980-3,31,25,,b

Purge Volume: 25.0

Operator: kl

Column phase:

Column diameter: 0.18



Data File: \\Orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A13.D

Date : 20-DEC-2012 16:28

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-3,31,25,,b

Purge Volume: 25.0

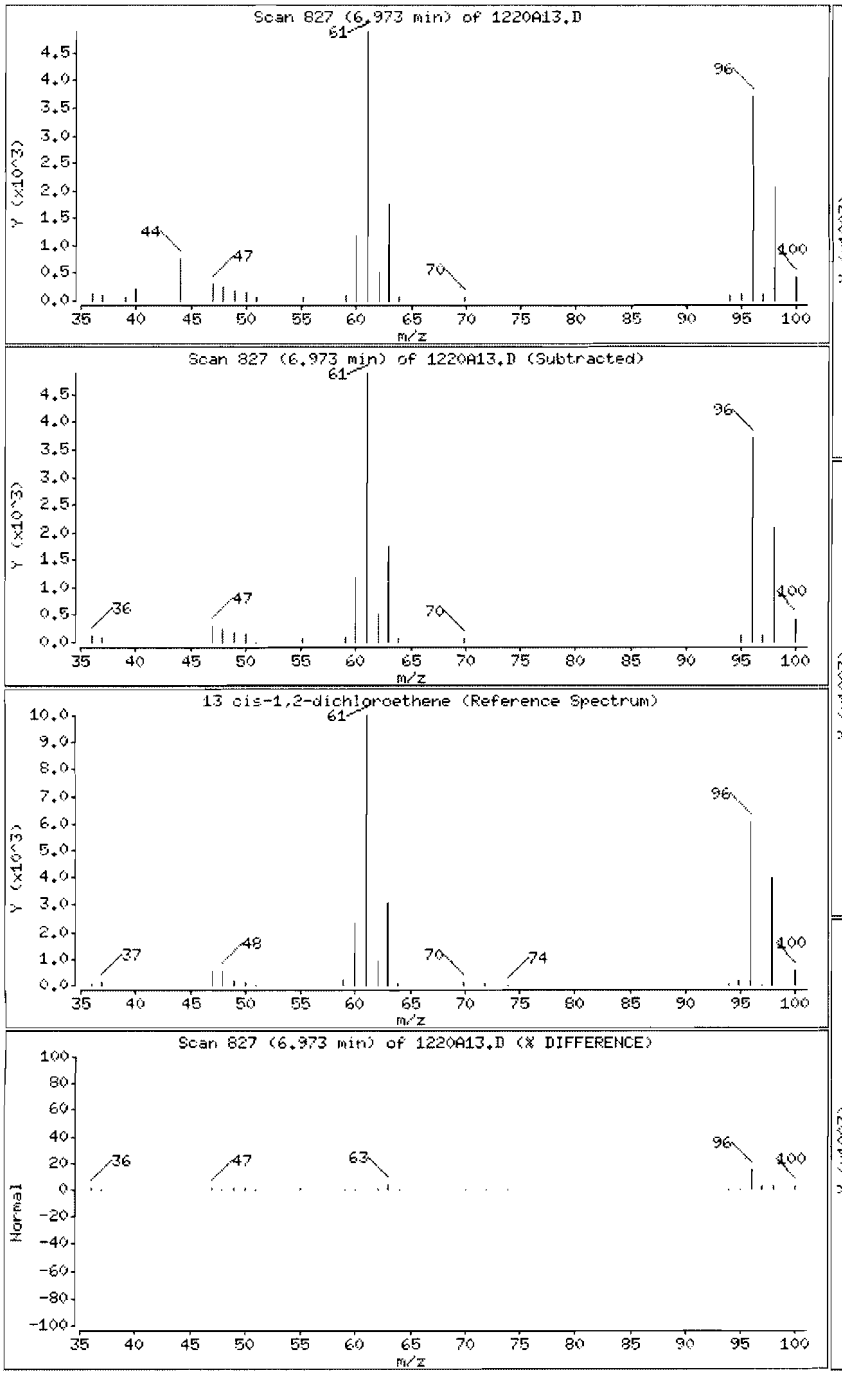
Operator: kl

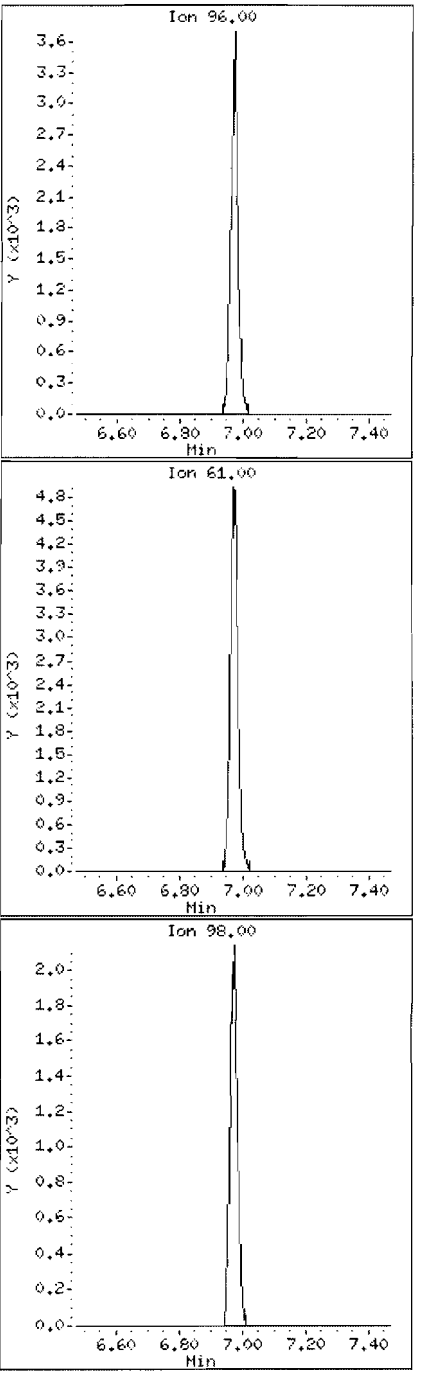
Column phase:

Column diameter: 0.18

13 cis-1,2-dichloroethene

Concentration: 9.96 ngs





Data File: \\Orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A13.D

Date : 20-DEC-2012 16:28

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-3,31,25,,b

Purge Volume: 25.0

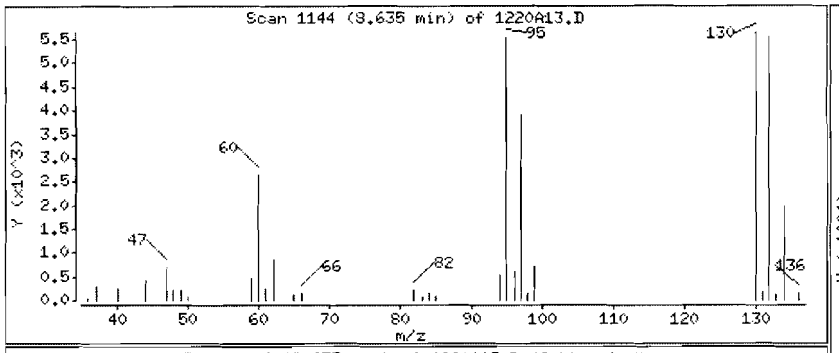
Operator: kl

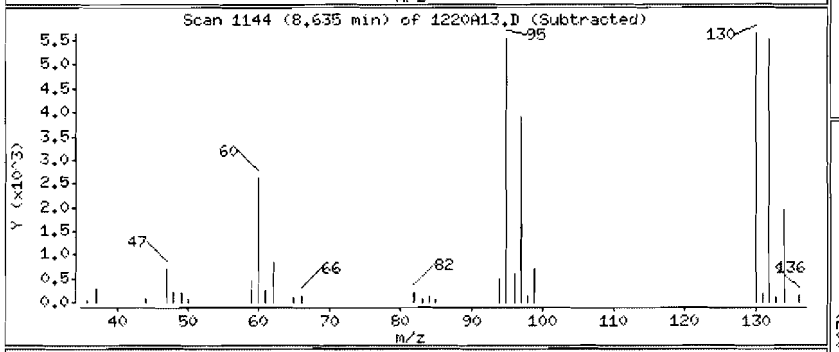
Column phase:

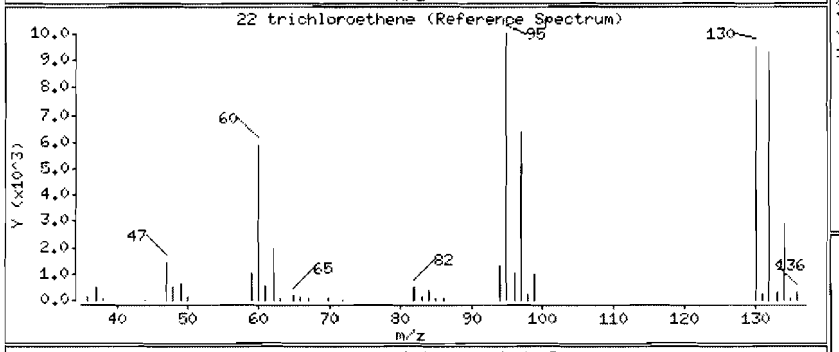
Column diameter: 0.18

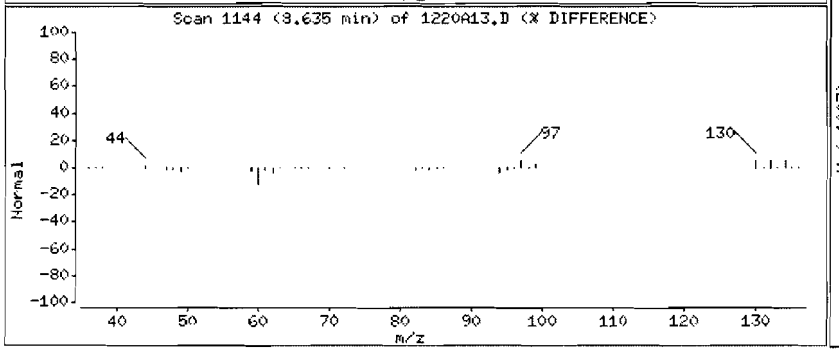
22 trichloroethene

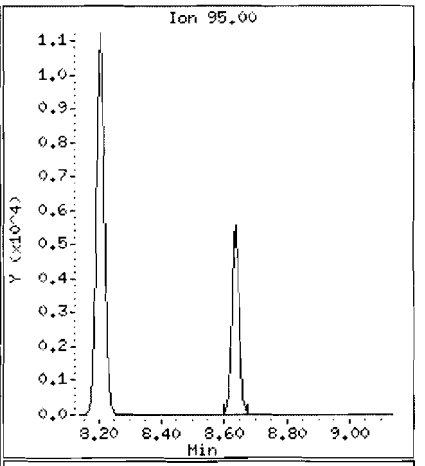
Concentration: 14.73 ngs

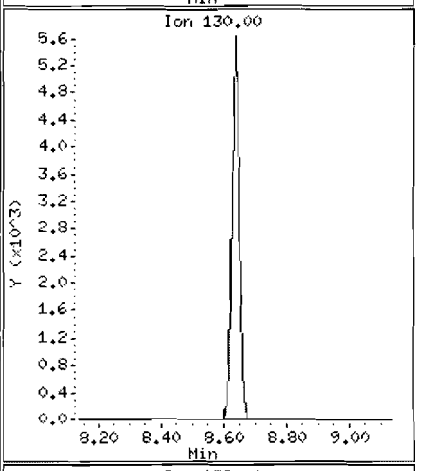


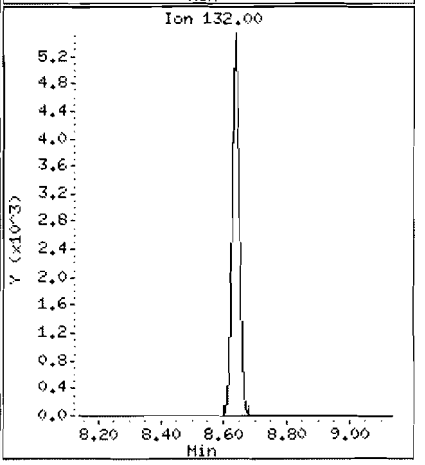












Data File: \\Orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A13.D

Date : 20-DEC-2012 16:28

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-3,31.25,,b

Purge Volume: 25.0

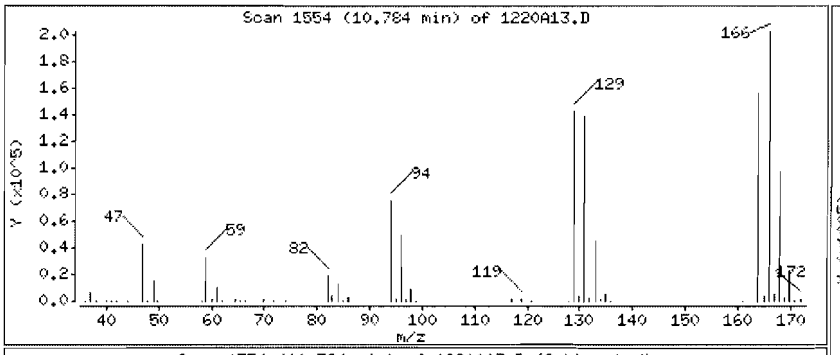
Operator: kl

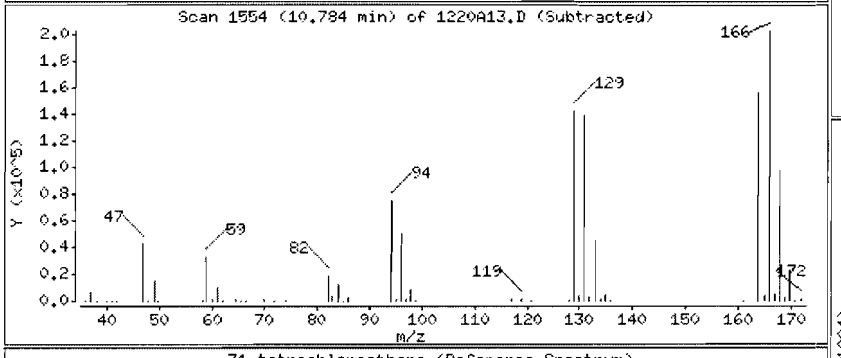
Column phase:

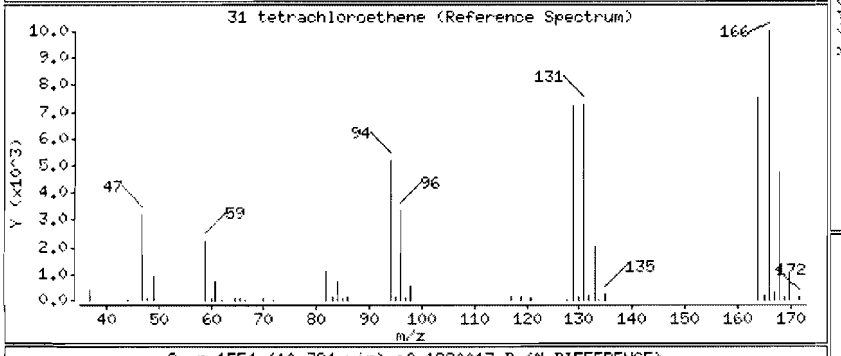
Column diameter: 0.18

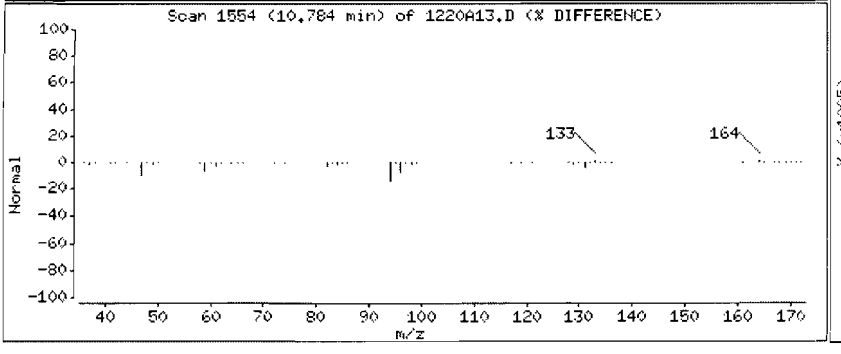
31 tetrachloroethene

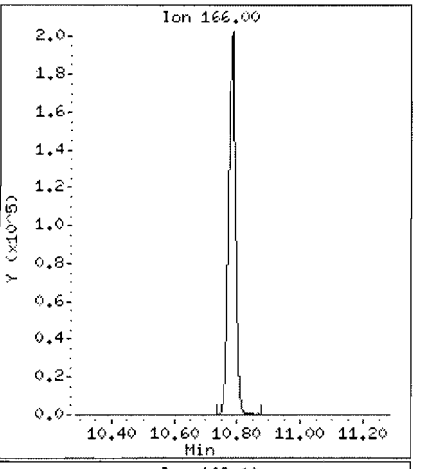
Concentration: 473.91 ngs

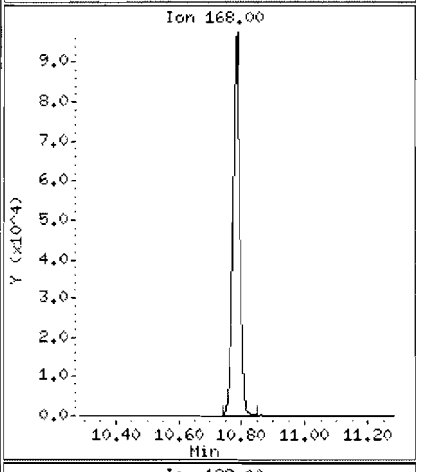


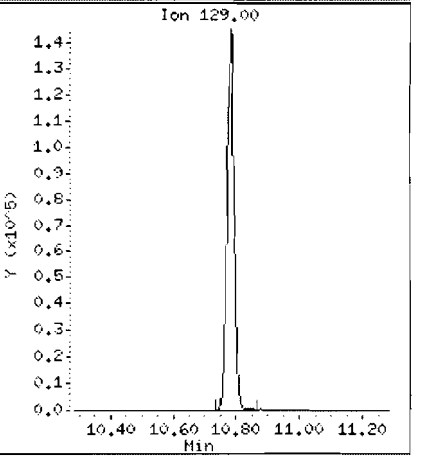












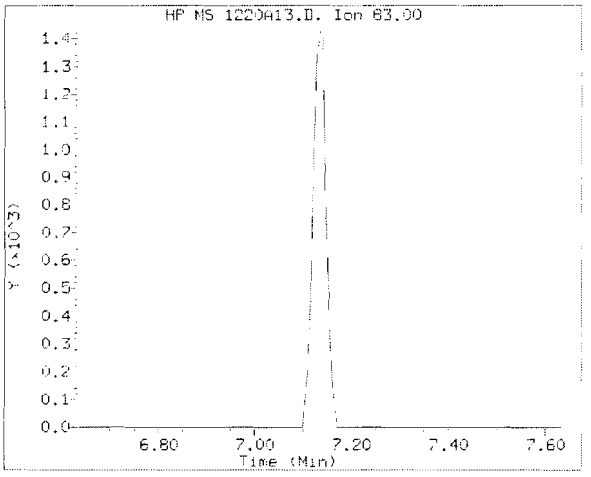
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Manual Integration

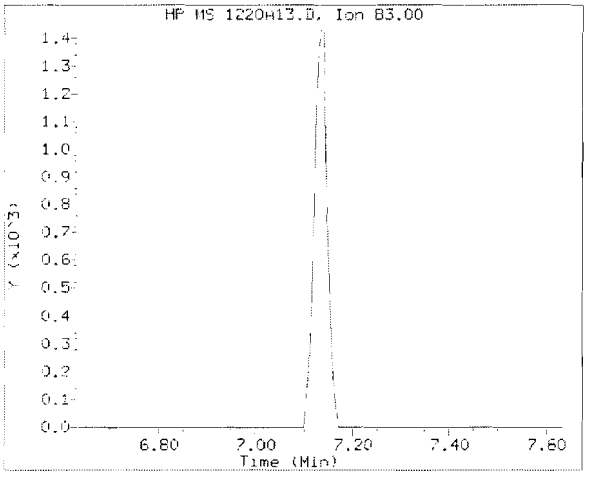
Sample Info : wg580980-3,31,25,,b
wg580980,ical7597

Instrument ID : Bundy.i
Method : 524.m
File : 1220A13.D
Injection Date : 20-DEC-2012 16:28
Quantitation : ISTD Integrator : HP RTE
Dilution Factor : 1.00 Sample Type: SAMPLE

Compound # 14: chloroform



Original Peak Response = 0



Manual Peak Response = 0 M2

M2 = Peak not found by automatic integration algorithm.

Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D
Lab Smp Id:
Inj Date : 20-DEC-2012 17:03
Operator : kl Inst ID: Bundy.i
Smp Info : wg580980-4,31,25,,b
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

		QUANT SIG					CONCENTRATIONS		
	Compound	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ng/L)	FLAG/FW CODE
1	dichlorodifluoromethane	85	3.056	3.056	(0.547)	[illegible]	[illegible]	96.91	
2	chloromethane	50	3.351	3.370	(0.412)	61[illegible]	[illegible]	[illegible]7	
3	vinyl chloride	62	3.532	3.532	(0.429)	9[illegible]	[illegible]	[illegible]%	
4	bromomethane	94	4.061	4.062	(0.495)	5[illegible]	139.461	139.46	
5	chloroethane	64	4.144	4.146	(0.505)	6[illegible]	105.509	105.50	
6	trichlorofluoromethane	101	4.435	4.435	(0.541)	92673	101.34[illegible]	101.34	
7	1,1-dichloroethene	96	5.111	5.111	(0.623)	6[illegible]58	1 1.513	[illegible].51	
8	methylene chloride	84	5.604	5.609	(0.683)	58447	107.707	107.70	
9	methyl-tert-butyl ether	73	5.730	5.730	(0.698)	[illegible]17[illegible]8	[illegible]9.5[illegible]	[illegible].7.57	
10	trans-1,2-dichloroethene	[illegible]	5.919	5.918	(0.721)	7[illegible]70	115.504	115.50	
11	1,1-dichloroethane	63	6.348	6.348	(0.774)	1[illegible]3[illegible]1	112.773	112.77	
12	2,2-dichloropropane	77	6.8[illegible]5	6.820	(0.844)	[illegible]7[illegible]60	[illegible].44[illegible]	99.44	
13	cis-1,2-dichloroethene	96	6.870	6.872	(0.850)	7[illegible]561	1[illegible].4[illegible]2	[illegible].91.96	
14	chloroform	83	[illegible].135	[illegible].135	(0.8[illegible]0)	114.73	[illegible]1.[illegible]69	[illegible]75.[illegible]5	
15	bromochloromethane	128	7.324	7.324	(0.[illegible]06)	2[illegible]9[illegible]4	[illegible]1[illegible].3[illegible]2	[illegible]19.8[illegible]	
16	1,1,1-trichloroethane	97	[illegible].160	[illegible].160	(0.[illegible]7[illegible])	[illegible]0[illegible]3[illegible]1	[illegible]16.[illegible]57	116.65	
17	1,1-dichloropropene	75	7.[illegible]1[illegible]	7.712	(0.9[illegible]0)	1[illegible]1[illegible]42	118.[illegible]59	118.27	
18	carbon tetrachloride	[illegible]17	7.[illegible]37	7.837	(0.9[illegible]3)	2[illegible]4[illegible]8	[illegible]16.[illegible]2[illegible]	116.48	
19	1,2-dichloroethane	62	7.9[illegible]4	7.9[illegible]2	(0.9[illegible]1)	7[illegible]3[illegible]5	[illegible]13.[illegible]614	113.60	
20	benzene	78	[illegible].[illegible]51	[illegible].[illegible]10	(0.9[illegible],	3[illegible]4[illegible]5	[illegible]18.[illegible]09	[illegible]18.47	
21	fluorobenzene	96	8.[illegible]26	[illegible].[illegible]34	(1.0[illegible])	[illegible]2[illegible]5[illegible]43	100.[illegible]0		
22	trichloroethene	95	8.[illegible]34	8.[illegible]34	(1.[illegible]1)	7[illegible]5[illegible]55	131.[illegible]69	131.2[illegible]4	
23	1,2-dichloropropane	63	8.[illegible]17	8.[illegible]8	(1.[illegible]5)	7[illegible]3[illegible]45	[illegible]15.[illegible]56	[illegible]11.84	
24	bromodichloromethane	83	9.[illegible]05	[illegible].[illegible]05	(1.[illegible]7)	[illegible]8[illegible]51	1[illegible].[illegible]90	[illegible]0[illegible].9[illegible]	
25	dibromomethane	93	9.[illegible]64	[illegible].164	(1.[illegible]7)	[illegible]2[illegible]2[illegible]4	[illegible].[illegible]3[illegible]	[illegible]0[illegible].[illegible]3	
26	cis-1,3-dichloropropene	75	[illegible].[illegible]6	9.[illegible]6	(1.[illegible]7)	[illegible]2[illegible]4	119.240	119.24	
27	toluene	91	10.[illegible]24	10.024	(1.[illegible]1)	[illegible]4[illegible]3[illegible]1[illegible]	125.[illegible]9	[illegible]25.[illegible]5	
28	trans-1,3-dichloropropene	75	10.[illegible]7[illegible]	10.[illegible]36	(1.[illegible]4)	[illegible]4[illegible]3[illegible]5	[illegible]0[illegible].4[illegible]4	[illegible]00.40	

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/l)	(ng/l)	REVIEW QUAL
	9	1,1,2-trichloroethane	83	10.380	10.380	(1.265)	34037	110.599	110.59	
	10	1,3-dichloropropane	76	10.663	10.663	(1.300)	72503	115.530	115.53	
	11	tetrachloroethene	164	10.794	10.784	(1.314)	443063	559.527	559.53	R
	12	dibromochloromethane	129	11.030	11.030	(1.344)	42842	111.746	111.74	
	13	1,2-dibromoethane	107	11.070	11.072	(0.964)	58204	108.540	108.54	
*	14	Chlorobenzene-d5	117	11.696	11.696	(1.000)	227077	150.000		
	15	chlorobenzene	117	11.744	11.743	(1.004)	1482106	100.556	100.55	
	16	ethylbenzene	91	11.770	11.770	(1.006)	3458462	109.269	109.26	
	17	1,1,1,2-tetrachloroethane	131	11.785	11.785	(1.007)	65986	110.109	110.10	
	18	p/m-xylenes	106	11.854	11.854	(1.013)	2865612	111.209	111.20	
	19	o-xylenes	106	12.394	12.394	(1.060)	1223837	99.585	99.58	
	20	styrene	104	12.430	12.430	(1.063)	2150021	107.510	107.51	
	21	isopropylbenzene	105	12.603	12.603	(1.078)	5468837	101.594	101.59	
	22	bromoform	173	12.902	12.902	(1.103)	82360	103.264	103.26	
	23	1,1,2,2-tetrachloroethane	83	13.018	13.012	(1.113)	43351	113.510	113.51	
S	24	4-bromofluorobenzene	95	13.128	13.130	(1.123)	111016	101.719	101.71	
	25	1,2,3-trichloropropane	110	13.268	13.268	(1.134)	19183	111.192	111.19	
	26	n-propylbenzene	91	13.296	13.296	(1.137)	3277417	99.493	99.49	
	27	bromobenzene	156	13.421	13.414	(1.147)	83044	107.778	107.77	
	28	1,3,5-trimethylbenzene	105	13.484	13.484	(1.153)	3060794	113.674	113.67	
	29	2-chlorotoluene	126	13.508	13.551	(1.159)	79691	101.127	101.12	
	30	p-chlorotoluene	91	13.601	13.618	(1.163)	2303340	99.070	99.07	
	31	tert-butylbenzene	119	13.930	13.930	(1.191)	2433365	102.451	102.45	
	32	1,2,4,-trimethylbenzene	105	13.983	13.960	(1.195)	2971545	108.300	108.30	
	33	sec-butylbenzene	105	14.104	14.104	(1.213)	3631106	102.258	102.25	
	34	p-isopropyltoluene	119	14.348	14.345	(1.227)	3153207	101.617	101.61	
	35	1,3-dichlorobenzene	146	14.528	14.528	(1.242)	1544771	97.6964	97.69	
*	36	1,4-Dichlorobenzene-d4	152	14.611	14.611	(1.000)	137197	150.000		
	37	1,4-dichlorobenzene	146	14.653	14.653	(1.003)	1638008	104.188	104.18	
	38	n-butylbenzene	91	14.855	14.852	(1.017)	3068957	106.402	106.40	
S	39	1,2-dichlorobenzene-d4	152	15.008	15.008	(1.028)	1073865	100.535	100.53	
	40	1,2-dichlorobenzene	146	15.020	15.020	(1.029)	1350669	98.1266	98.17	
	41	1,2-dibromo-3-chloropropane	75	16.048	16.045	1.099	5618	99.0837	99.03	
	42	1,2,4-trichlorobenzene	180	17.128	17.128	(1.172)	1059268	100.364	100.36	
	43	hexachlorobutadiene	225	17.230	17.230	(1.180)	638758	109.416	109.41	
	44	naphthalene	128	17.500	17.500	(1.198)	1438519	98.4767	98.47	
	45	1,2,3-trichlorobenzene	180	17.636	17.636	(1.208)	886012	103.502	103.50	
M	46	Xylene (total)	106				4088502	310.502	310.50	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A14.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09

Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	228582	-11.23
34 Chlorobenzene-d5	246648	123324	493296	227077	-7.93
56 1,4-Dichlorobenze	135773	67887	271546	127297	-6.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	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.

Alpha Analytical Labs

RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: MS
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ica17597

	SPIKE COMPOUND	CONC ADDED ngs	CONC RECOVERED ngs	% RECOVERED	LIMITS
1	dichlorodifluorome	100.00	96.01	96.02	70-130
2	chloromethane	100.00	84.27	84.28	70-130
3	vinyl chloride	100.00	118.22	118.22	70-130
4	bromomethane	100.00	109.46	109.46	70-130
5	chloroethane	100.00	103.80	103.81	70-130
6	trichlorofluoromet	100.00	101.84	101.85	70-130
7	1,1-dichloroethene	100.00	111.51	111.51	70-130
8	methylene chloride	100.00	107.70	107.71	70-130
9	methyl-tert-butyl	100.00	117.87	117.88	70-130
10	trans-1,2-dichloro	100.00	115.50	115.50	70-130
11	1,1-dichloroethane	100.00	112.77	112.78	70-130
12	2,2-dichloropropan	100.00	99.44	99.45	70-130
13	cis-1,2-dichloroet	100.00	122.96	122.96	70-130
14	chloroform	100.00	115.95	115.96	70-130
15	bromochloromethane	100.00	119.89	119.89	70-130
16	1,1,1-trichloroeth	100.00	116.65	116.65	70-130
17	1,1-dichloropropen	100.00	118.27	118.28	70-130
18	carbon tetrachlori	100.00	117.49	117.50	70-130
19	1,2-dichloroethane	100.00	113.62	113.62	70-130
20	benzene	100.00	113.48	113.48	70-130
22	trichloroethene	100.00	132.26	132.26*	70-130
23	1,2-dichloropropan	100.00	115.54	115.55	70-130
24	bromodichlorometha	100.00	109.99	109.99	70-130
25	dibromomethane	100.00	109.80	109.80	70-130
26	cis-1,3-dichloropr	100.00	119.24	119.24	70-130
27	toluene	100.00	115.98	115.98	70-130
28	trans-1,3-dichloro	100.00	100.48	100.48	70-130
29	1,1,2-trichloroeth	100.00	118.19	118.20	70-130
30	1,3-dichloropropan	100.00	115.53	115.53	70-130
31	tetrachloroethene	100.00	589.52	589.53*	70-130
32	dibromochlorometha	100.00	111.24	111.25	70-130
33	1,2-dibromoethane	100.00	108.80	108.81	70-130
35	chlorobenzene	100.00	100.55	100.56	70-130
37	1,1,1,2-tetrachlor	100.00	112.10	112.11	70-130
36	ethylbenzene	100.00	109.26	109.27	70-130
38	p/m-xylenes	200.00	211.26	105.63	70-130
39	o-xylenes	100.00	99.58	99.58	70-130
40	styrene	100.00	107.51	107.51	70-130
41	isopropylbenzene	100.00	102.59	102.59	70-130
42	bromoform	100.00	103.26	103.26	70-130

	SPIKE COMPOUND	CONC ADDED ngs	CONC RECOVERED ngs	% RECOVERED	LIMITS
	43 1,1,2,2-tetrachlor	100.00	113.51	113.52	70-130
	45 1,2,3-trichloropro	100.00	111.13	111.13	70-130
	46 n-propylbenzene	100.00	99.49	99.49	70-130
	47 bromobenzene	100.00	107.77	107.78	70-130
	48 1,3,5-trimethylben	100.00	113.67	113.67	70-130
	49 o-chlorotoluene	100.00	101.12	101.13	70-130
	50 p-chlorotoluene	100.00	99.10	99.11	70-130
	51 tert-butylbenzene	100.00	102.45	102.45	70-130
	52 1,2,4,-trimethylbe	100.00	108.30	108.31	70-130
	53 sec-butylbenzene	100.00	102.28	102.29	70-130
	54 p-isopropyltoluene	100.00	101.61	101.62	70-130
	55 1,3-dichlorobenzen	100.00	97.69	97.70	70-130
	57 1,4-dichlorobenzen	100.00	104.18	104.18	70-130
	58 n-butylbenzene	100.00	106.00	106.00	70-130
	60 1,2-dichlorobenzen	100.00	96.12	96.13	70-130
	61 1,2-dibromo-3-chlo	100.00	99.03	99.03	70-130
	62 1,2,4-trichloroben	100.00	100.06	100.07	70-130
	63 hexachlorobutadien	100.00	109.41	109.42	70-130
	64 naphthalene	100.00	98.47	98.48	70-130
	65 1,2,3-trichloroben	100.00	103.52	103.52	70-130
M	66 Xylene (total)	300.00	310.85	103.62	70-130

	SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$	44 4-bromofluorobenze	100.00	101.71	101.72	80-120
$	59 1,2-Dichlorobenzen	100.00	100.53	100.54	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Page 6

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

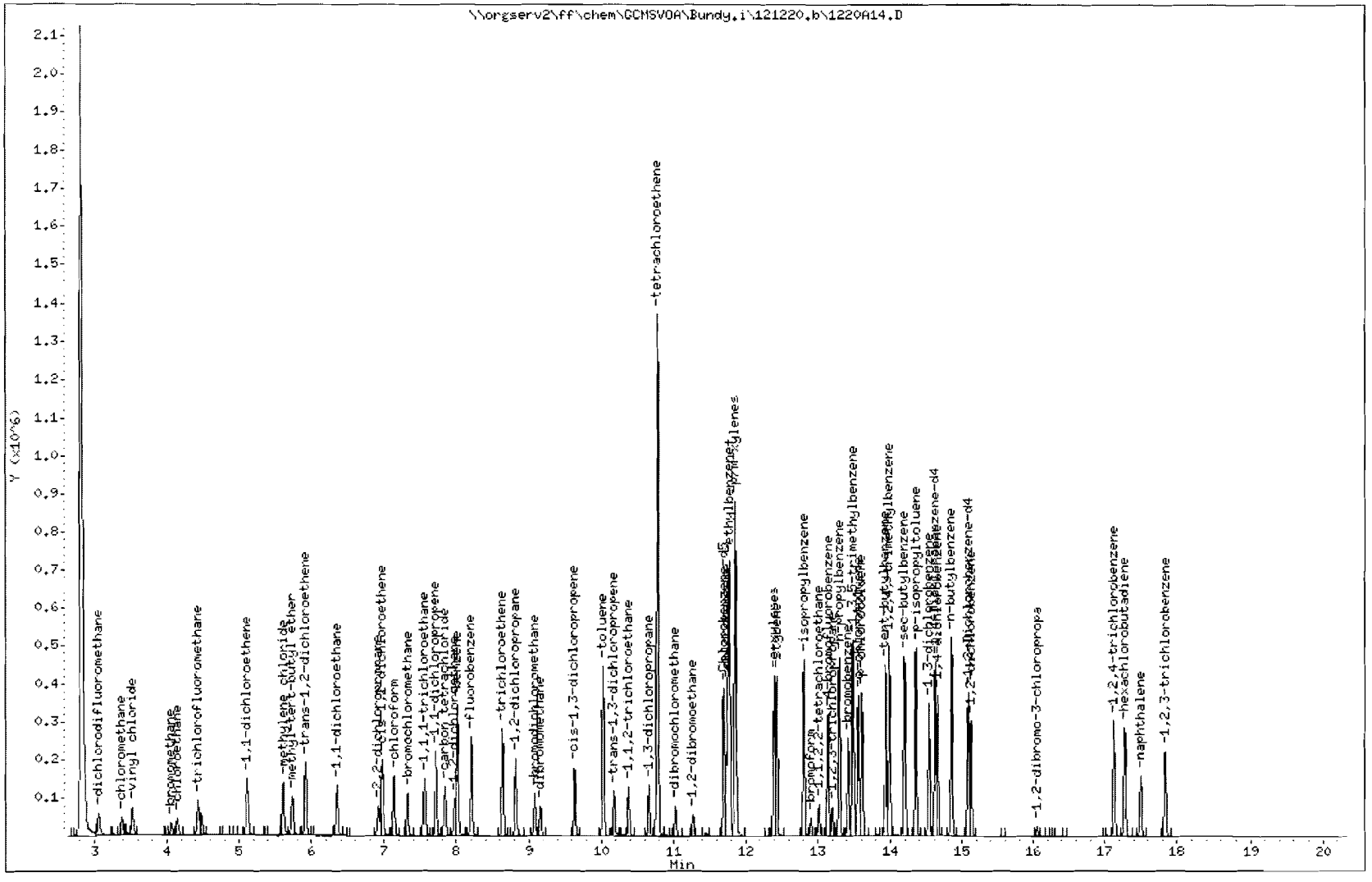
Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

Operator: kl

Column phase:

Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

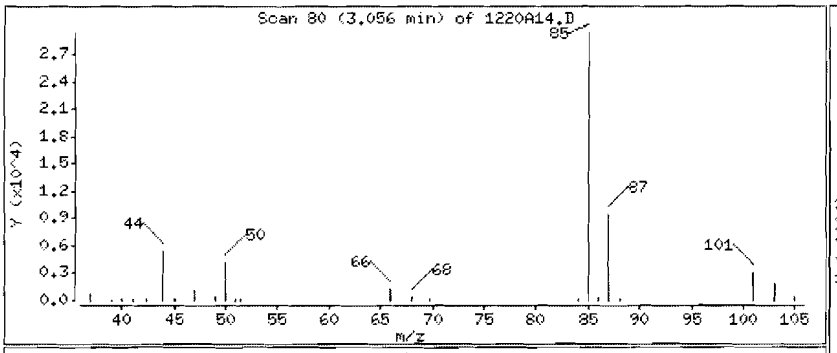
Operator: kl

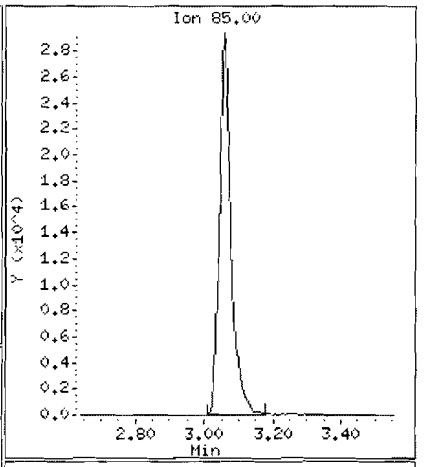
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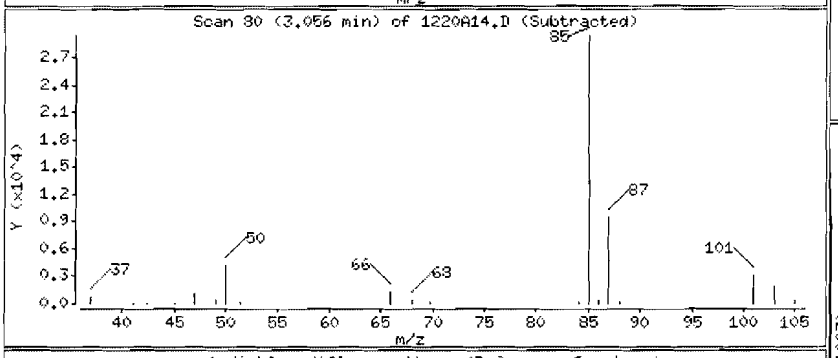
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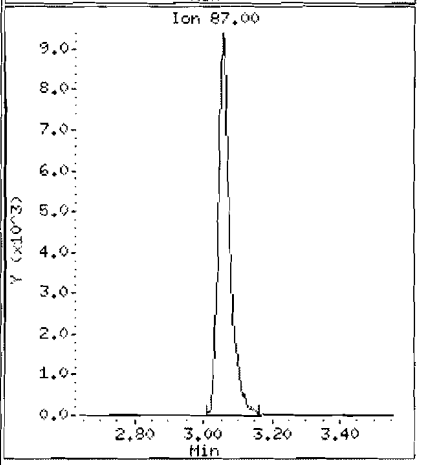
1 dichlorodifluoromethane

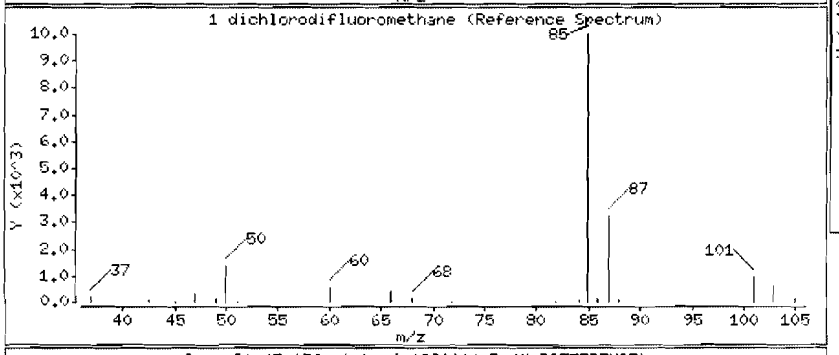
Concentration: 96.01 ngs

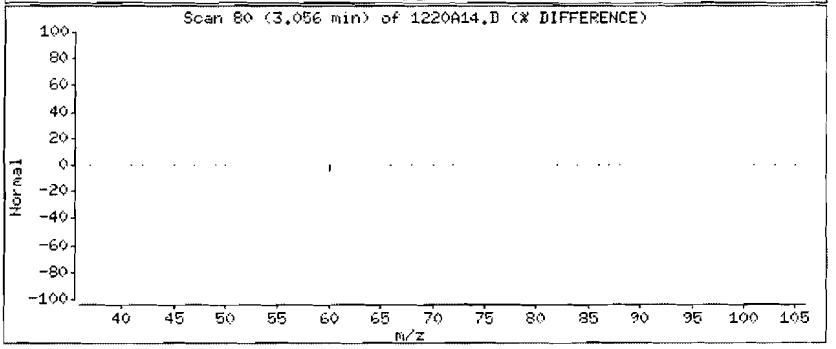












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

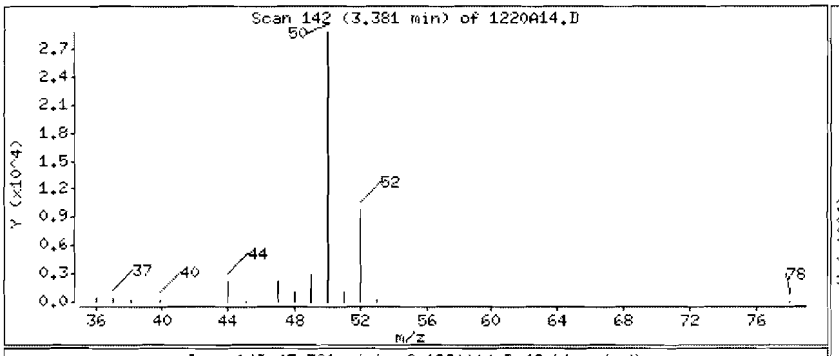
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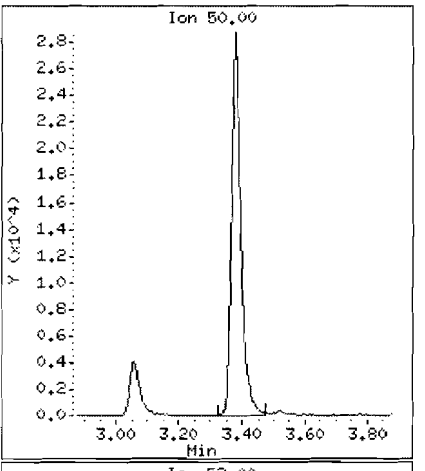
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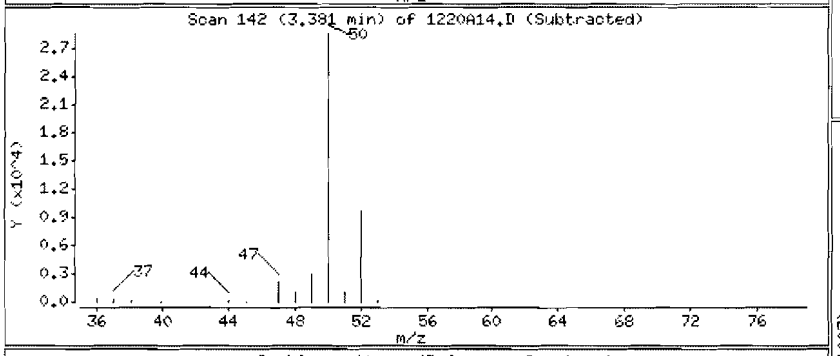
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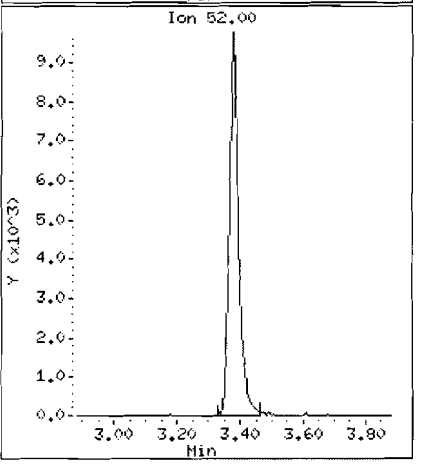
2 chloromethane

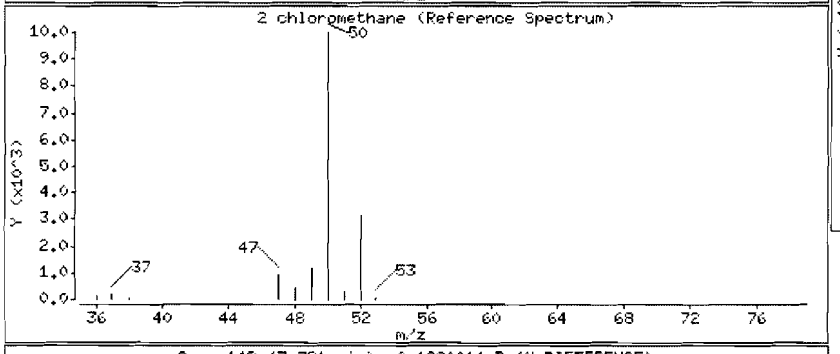
Concentration: 84.27 ngs

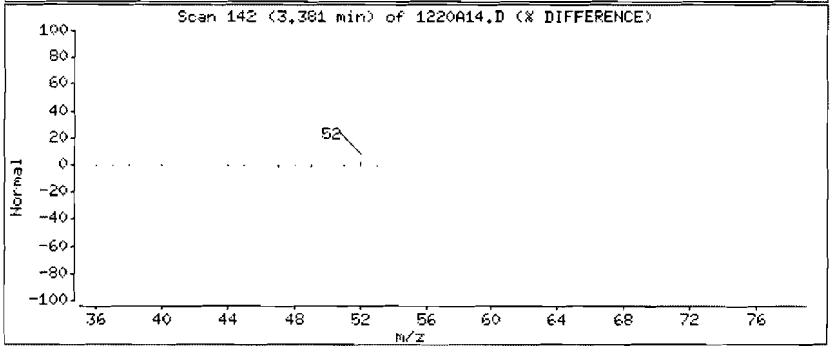












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

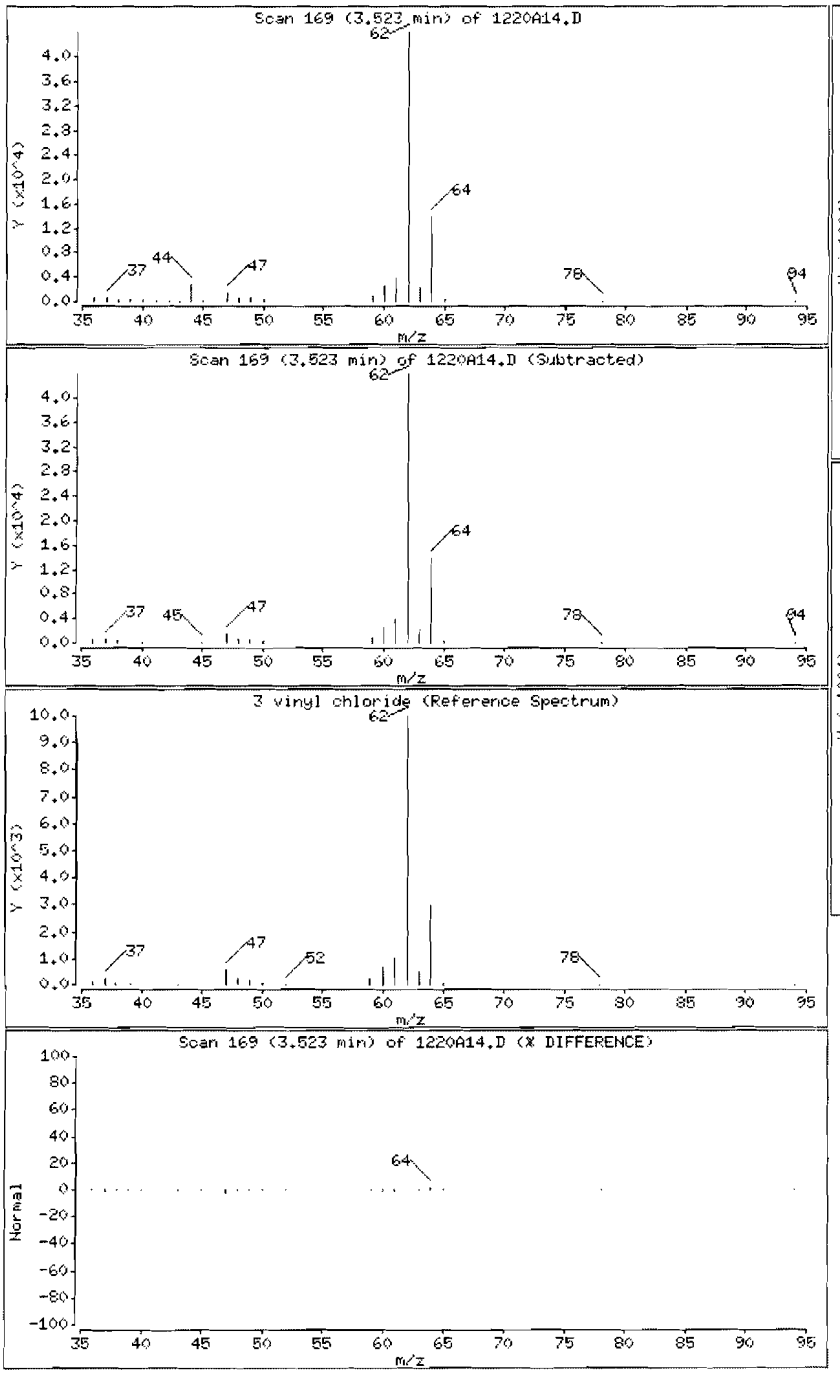
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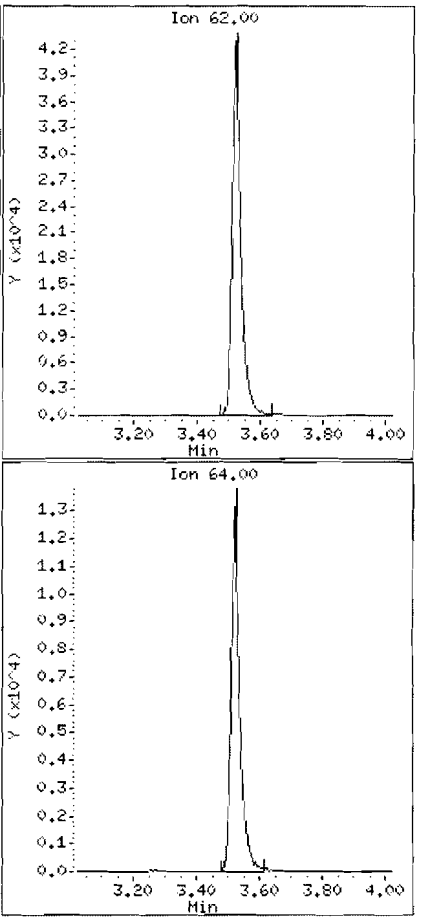
Column phase:

Column diameter: 0.18

3 vinyl chloride

Concentration: 118.22 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

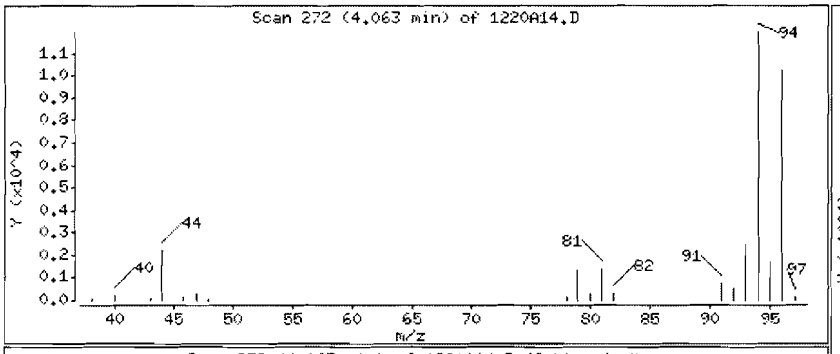
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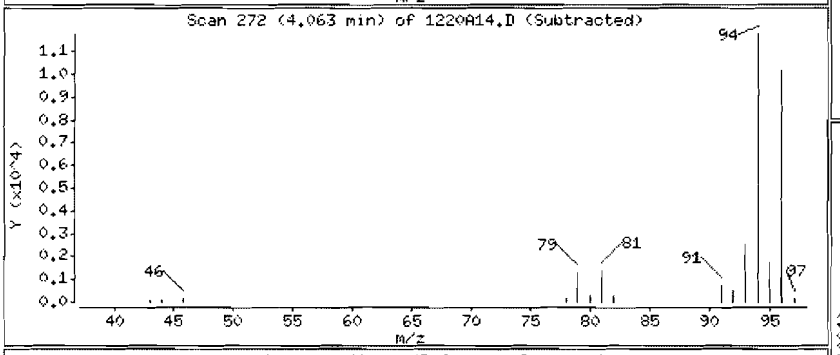
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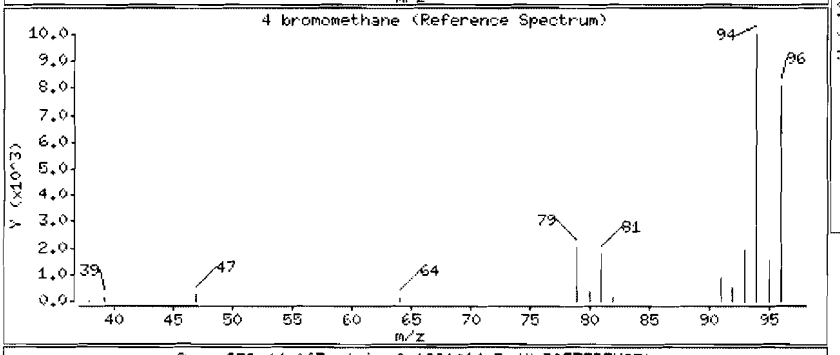
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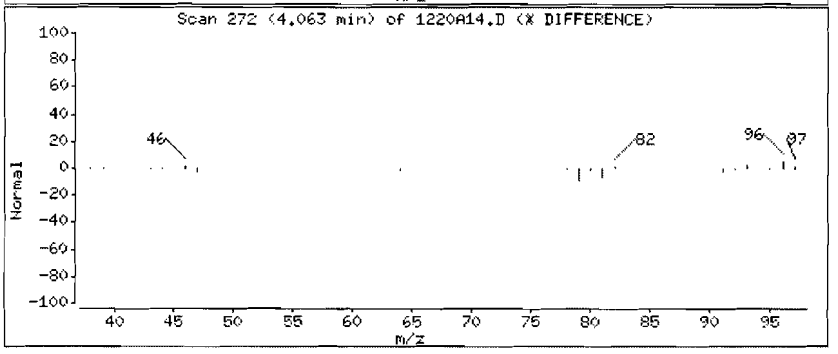
4 bromomethane

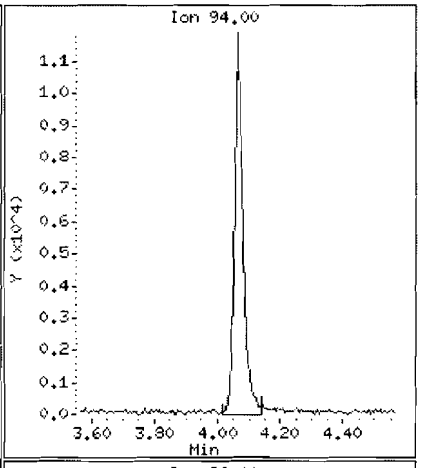
Concentration: 109.46 ngs

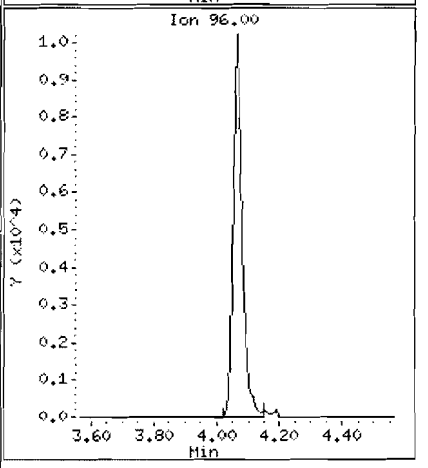












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.:

Sample Info: wg580980-4,31.25,,b

Purge Volume: 25.0

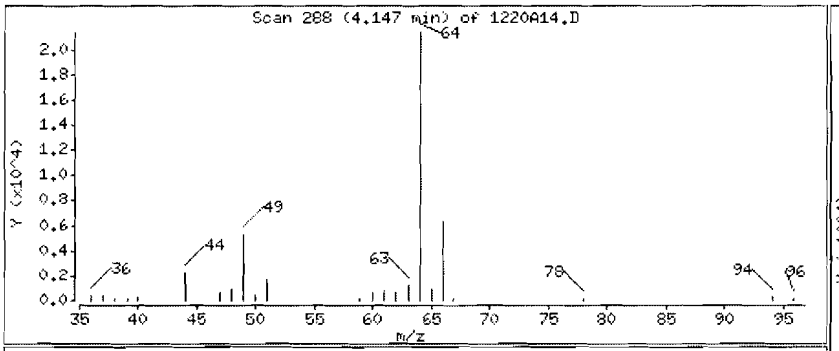
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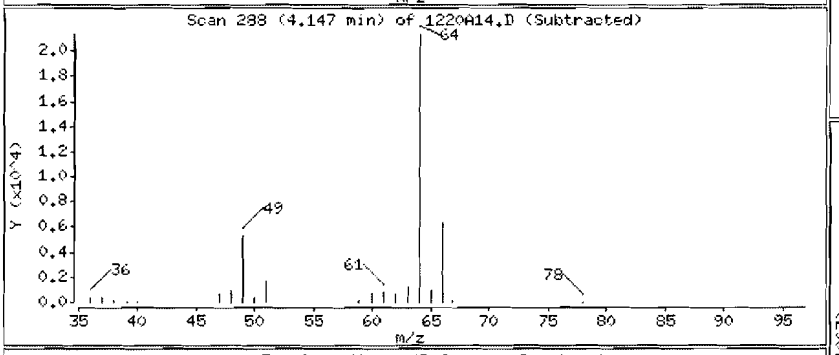
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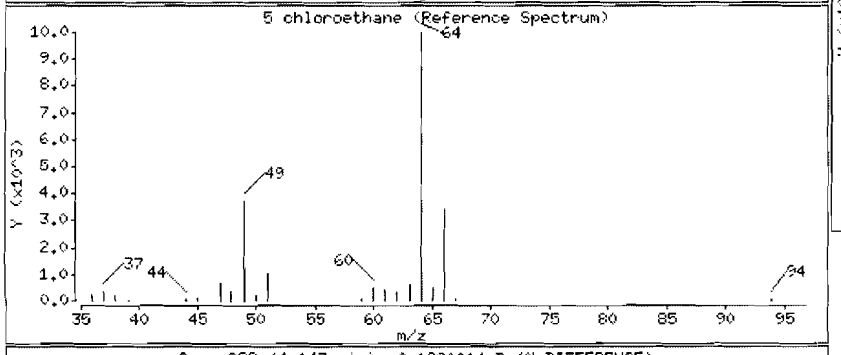
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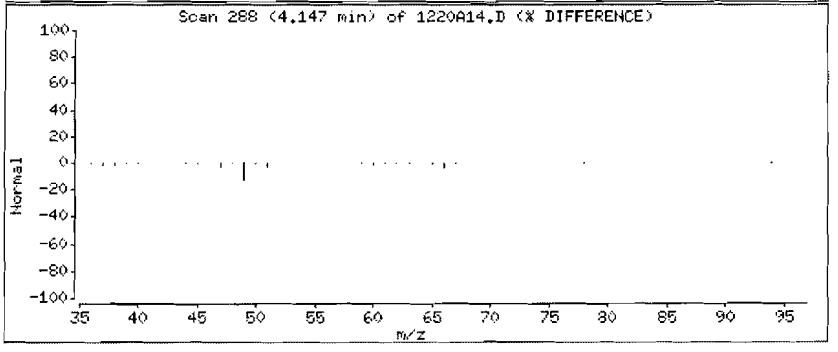
5 chloroethane

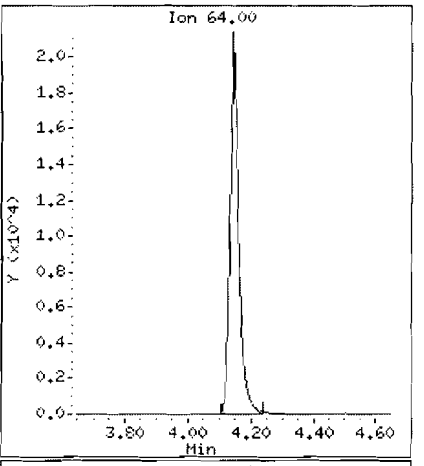
Concentration: 103.80 ngs

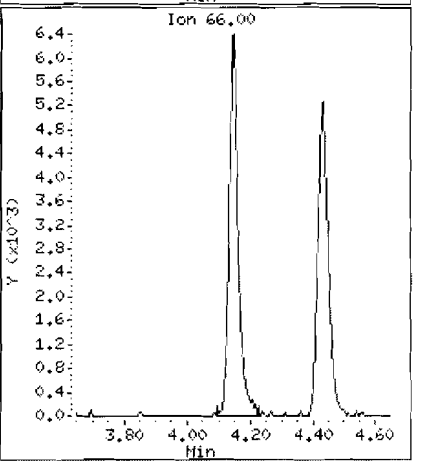












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

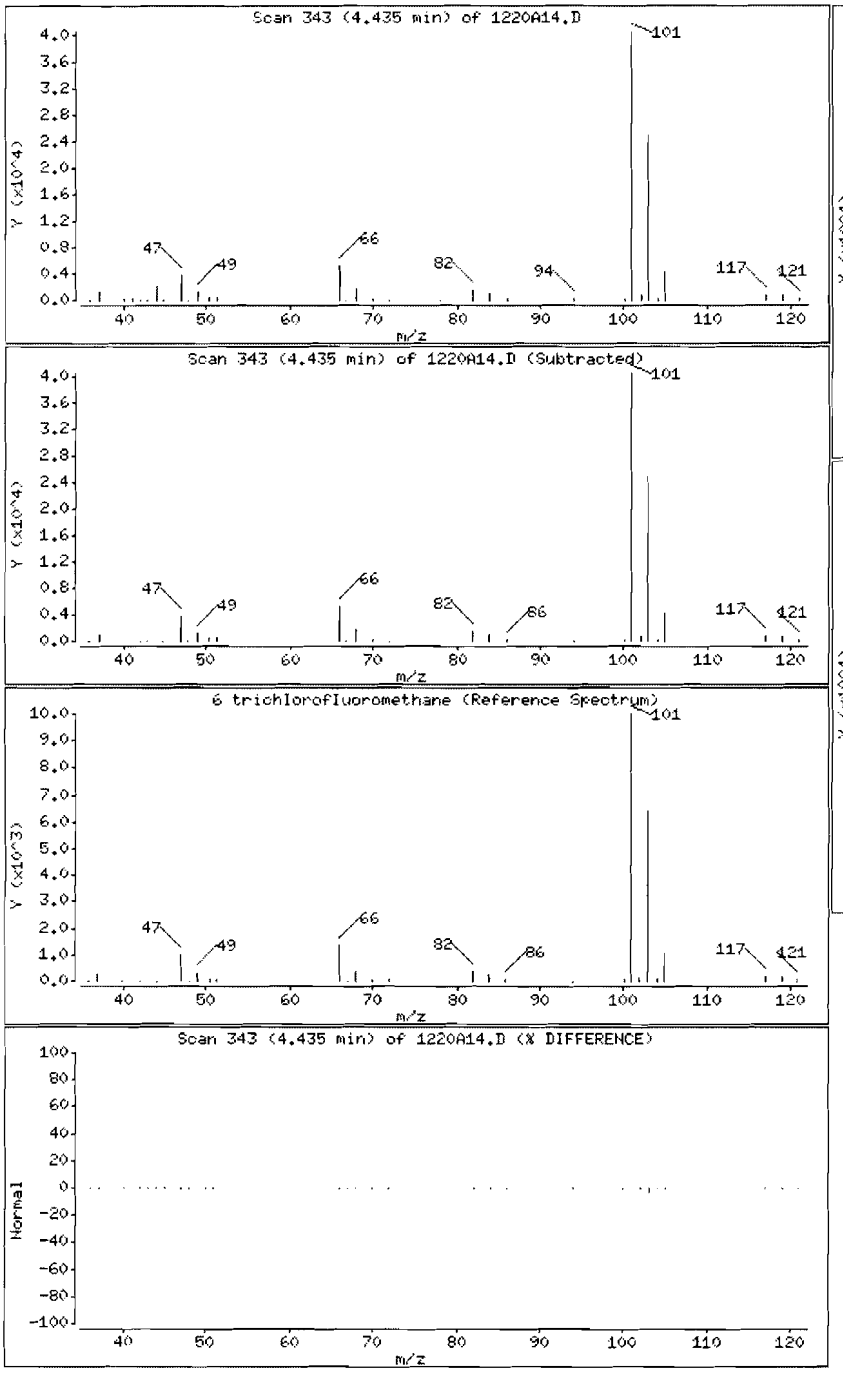
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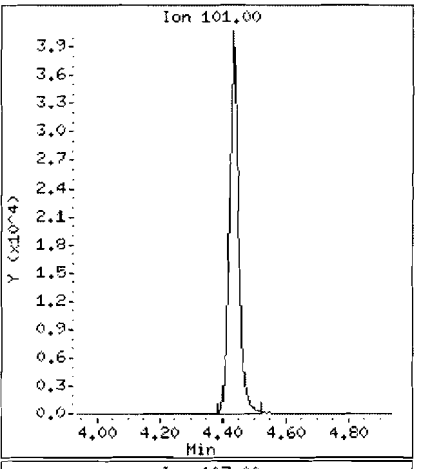
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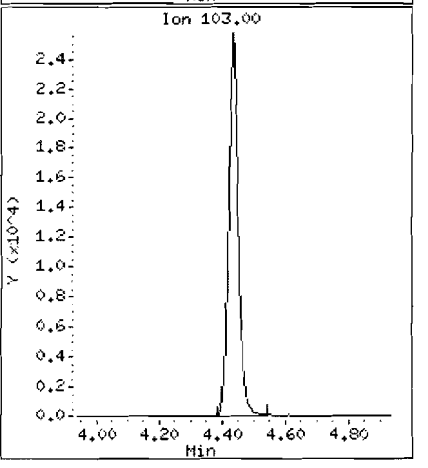
Column diameter: 0.18

6 trichlorofluoromethane

Concentration: 101.84 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

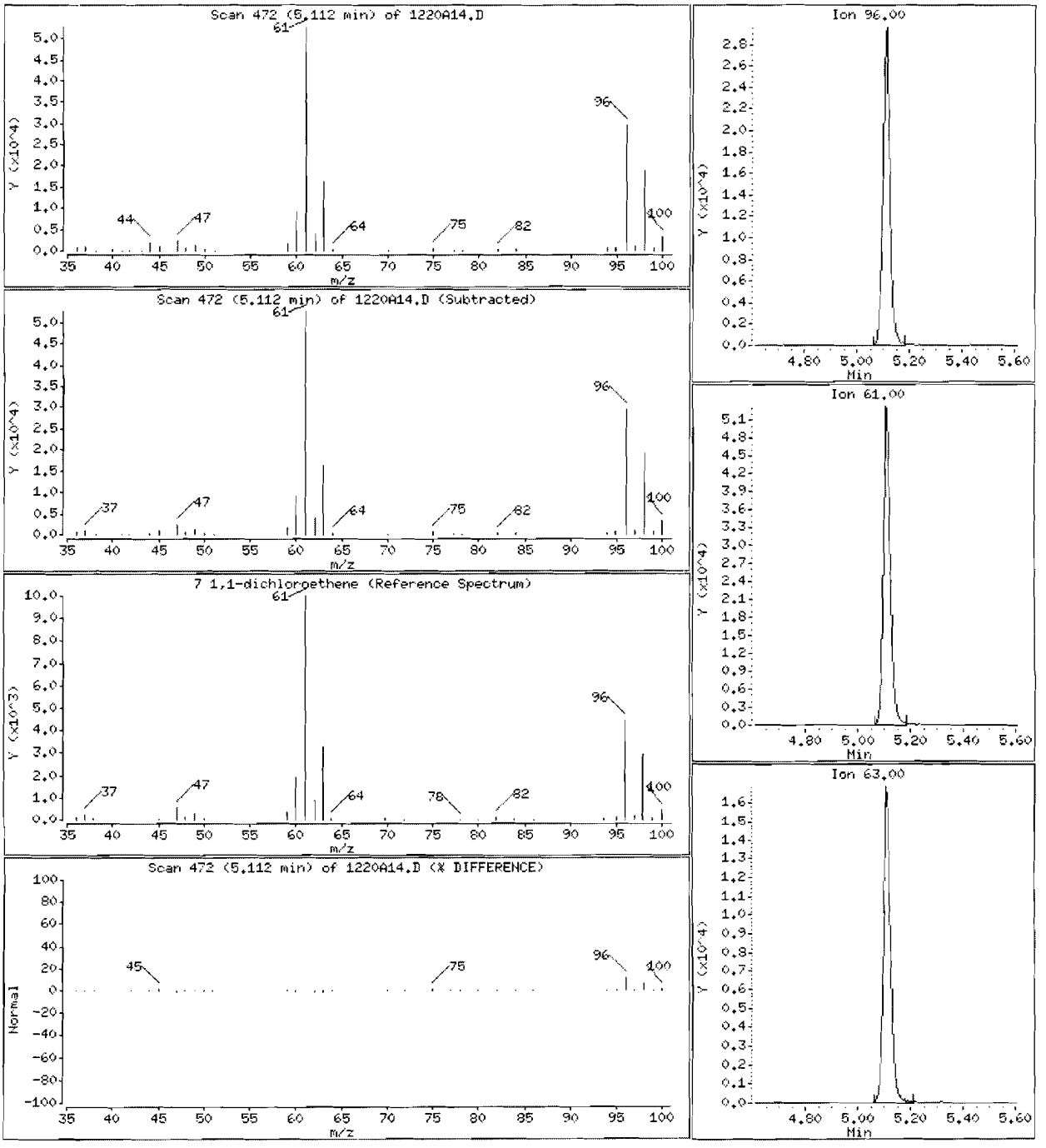
Operator: kl

Column phase:

Column diameter: 0.18

7 1,1-dichloroethene

Concentration: 111.51 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

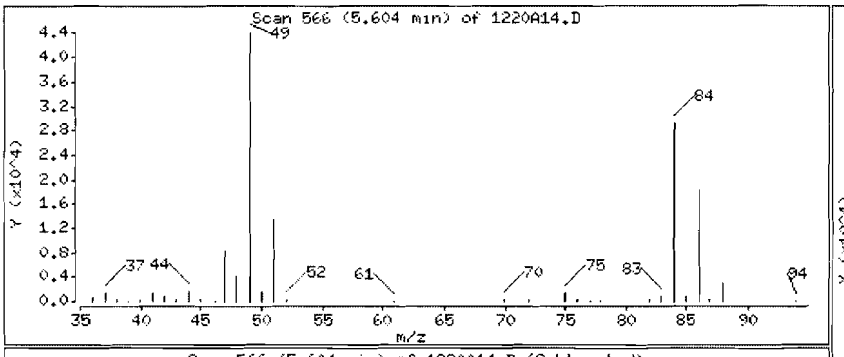
Operator: kl

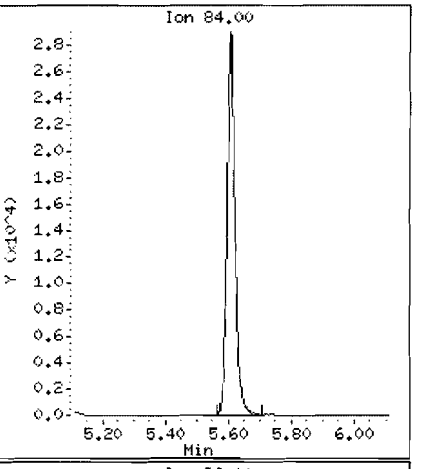
Column phase:

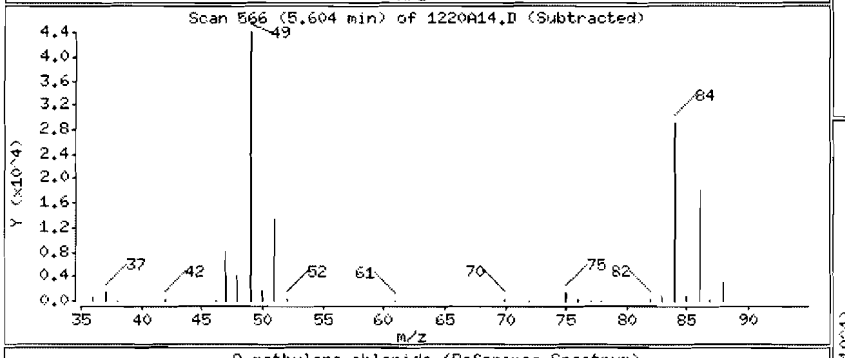
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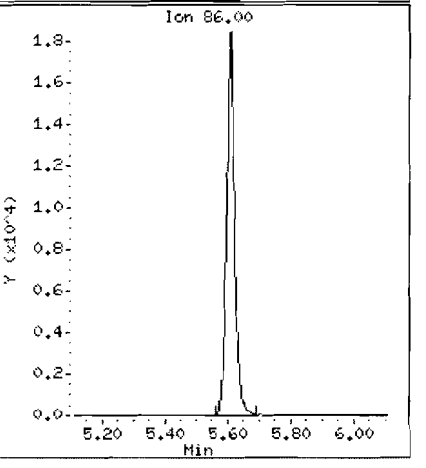
8 methylene chloride

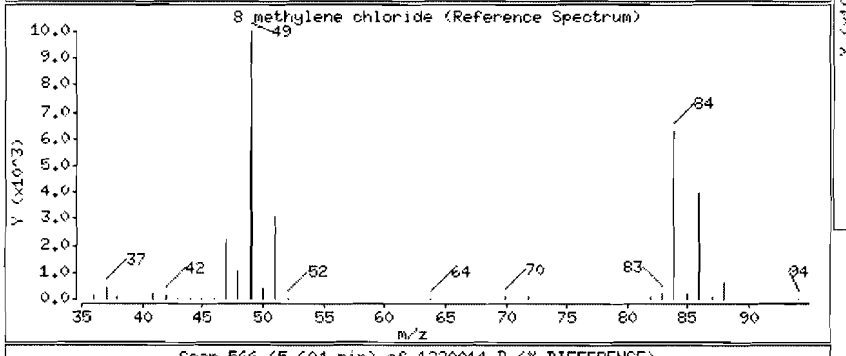
Concentration: 107.70 ngs

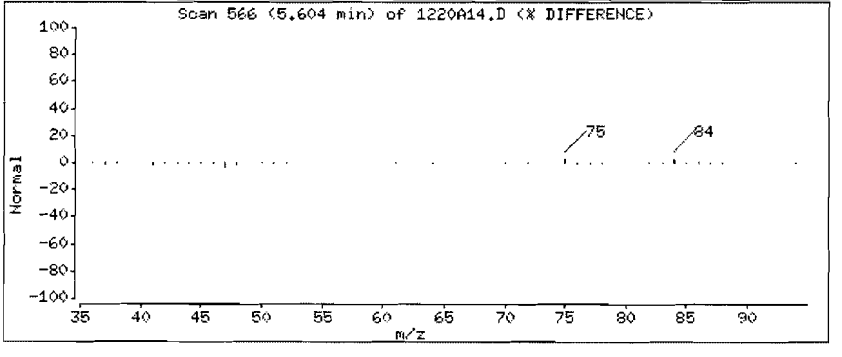












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

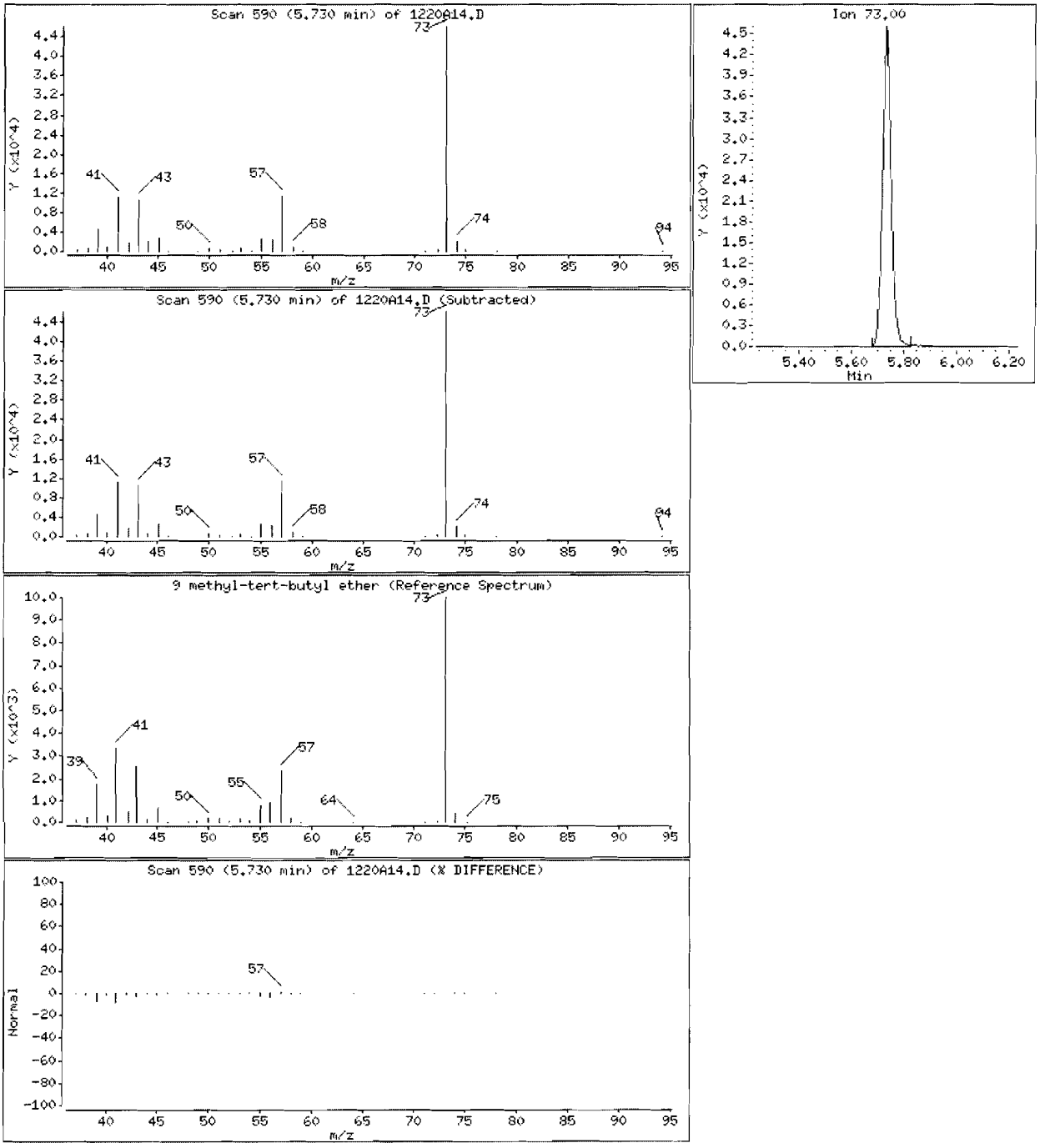
Operator: kl

Column phase:

Column diameter: 0.18

9 methyl-tert-butyl ether

Concentration: 117.87 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

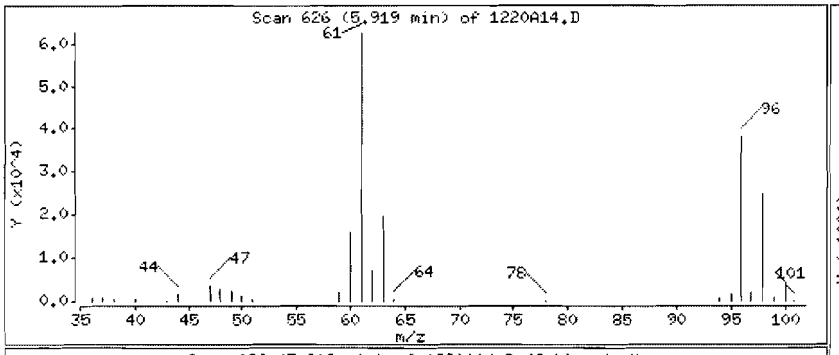
Operator: kl

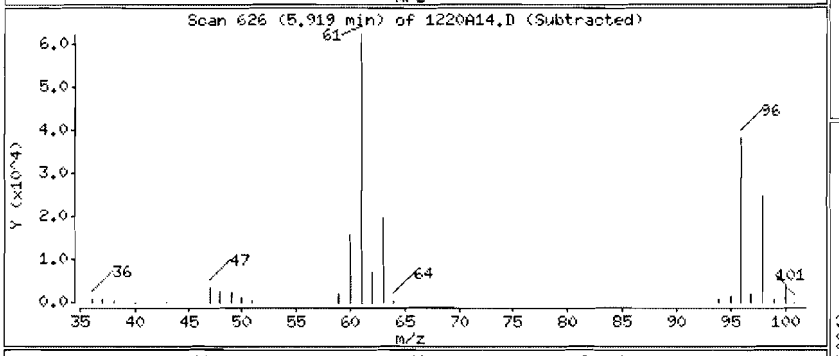
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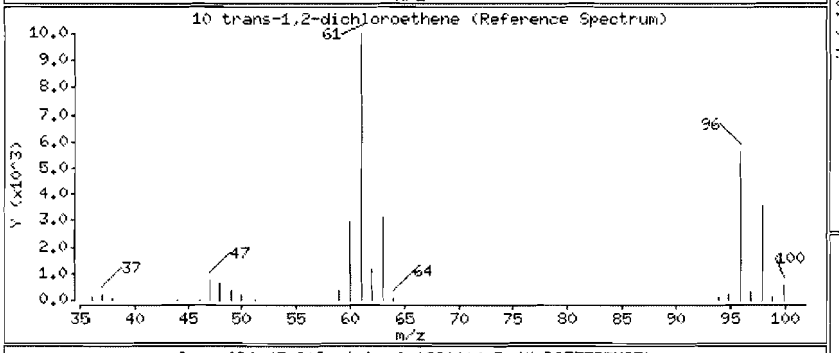
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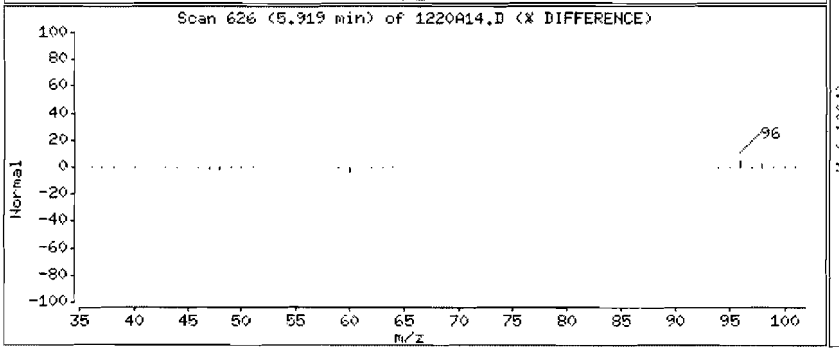
10 trans-1,2-dichloroethene

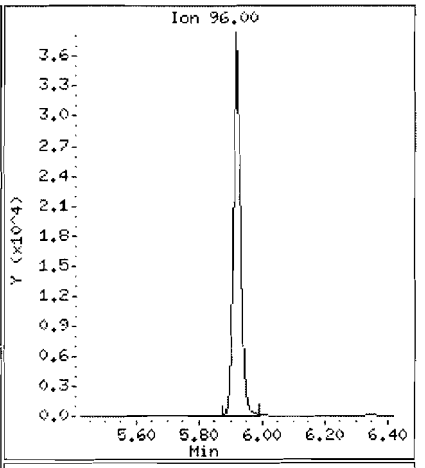
Concentration: 115.50 ngs

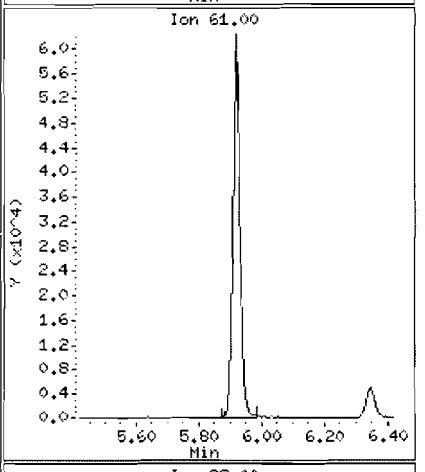


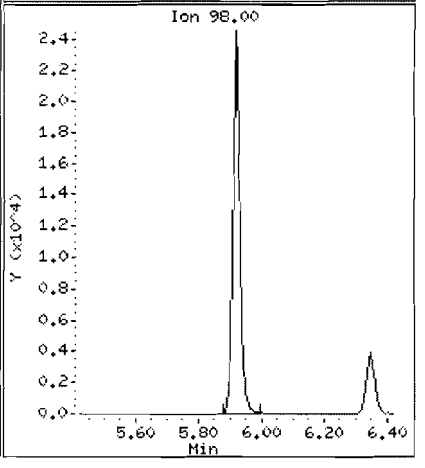












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31.25,,b

Purge Volume: 25.0

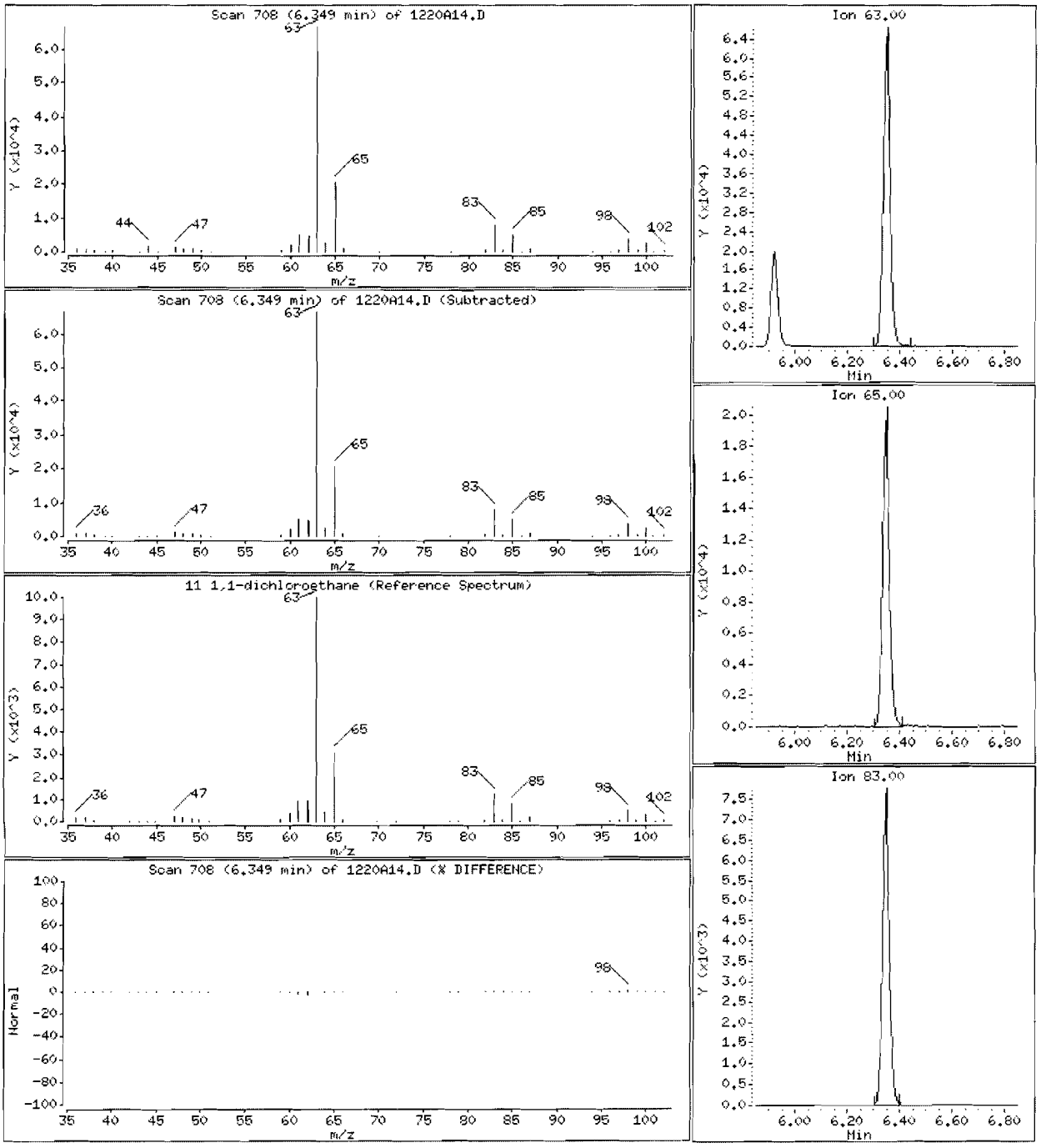
Operator: kl

Column phase:

Column diameter: 0.18

11 1,1-dichloroethane

Concentration: 112.77 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

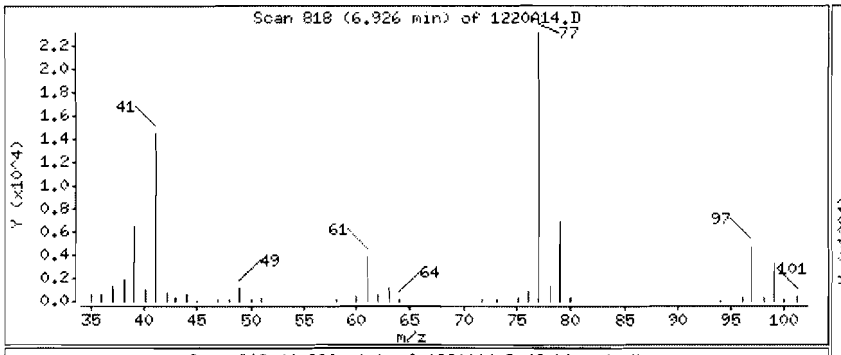
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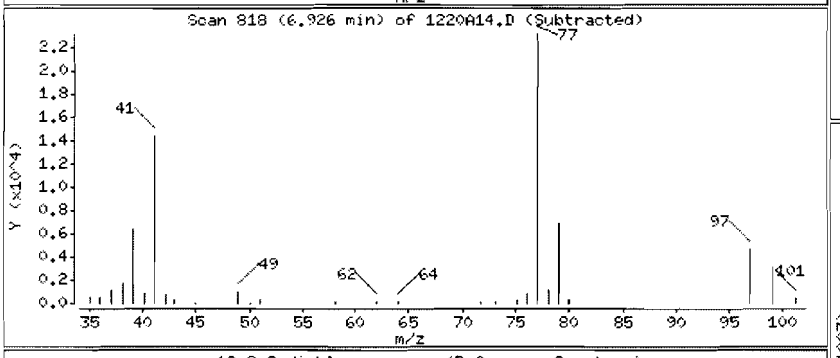
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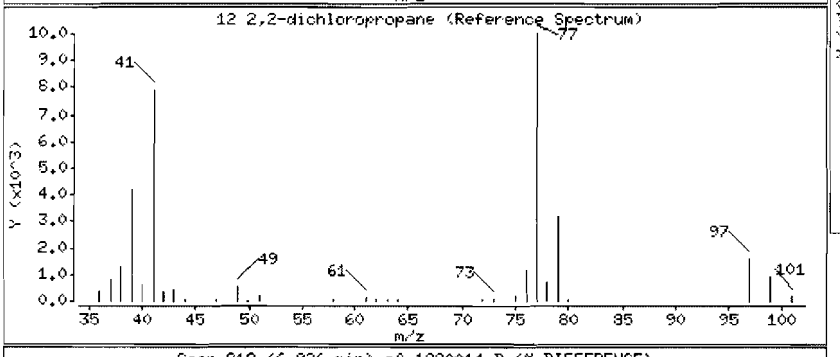
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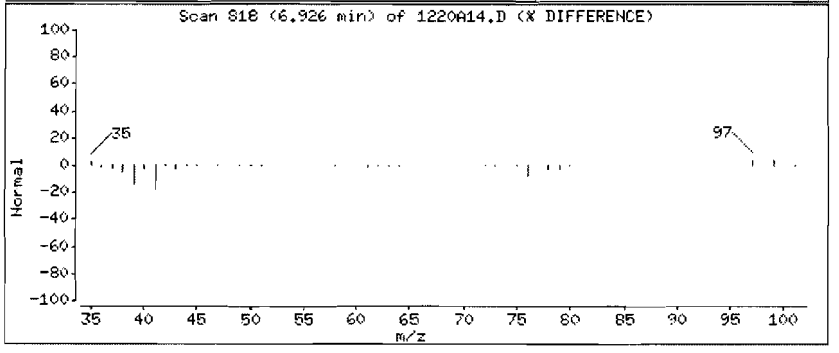
12 2,2-dichloropropane

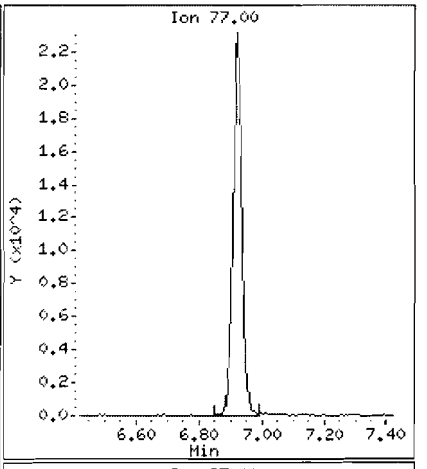
Concentration: 93.44 ngs

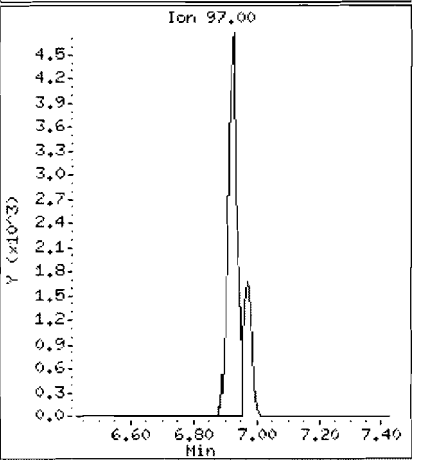












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

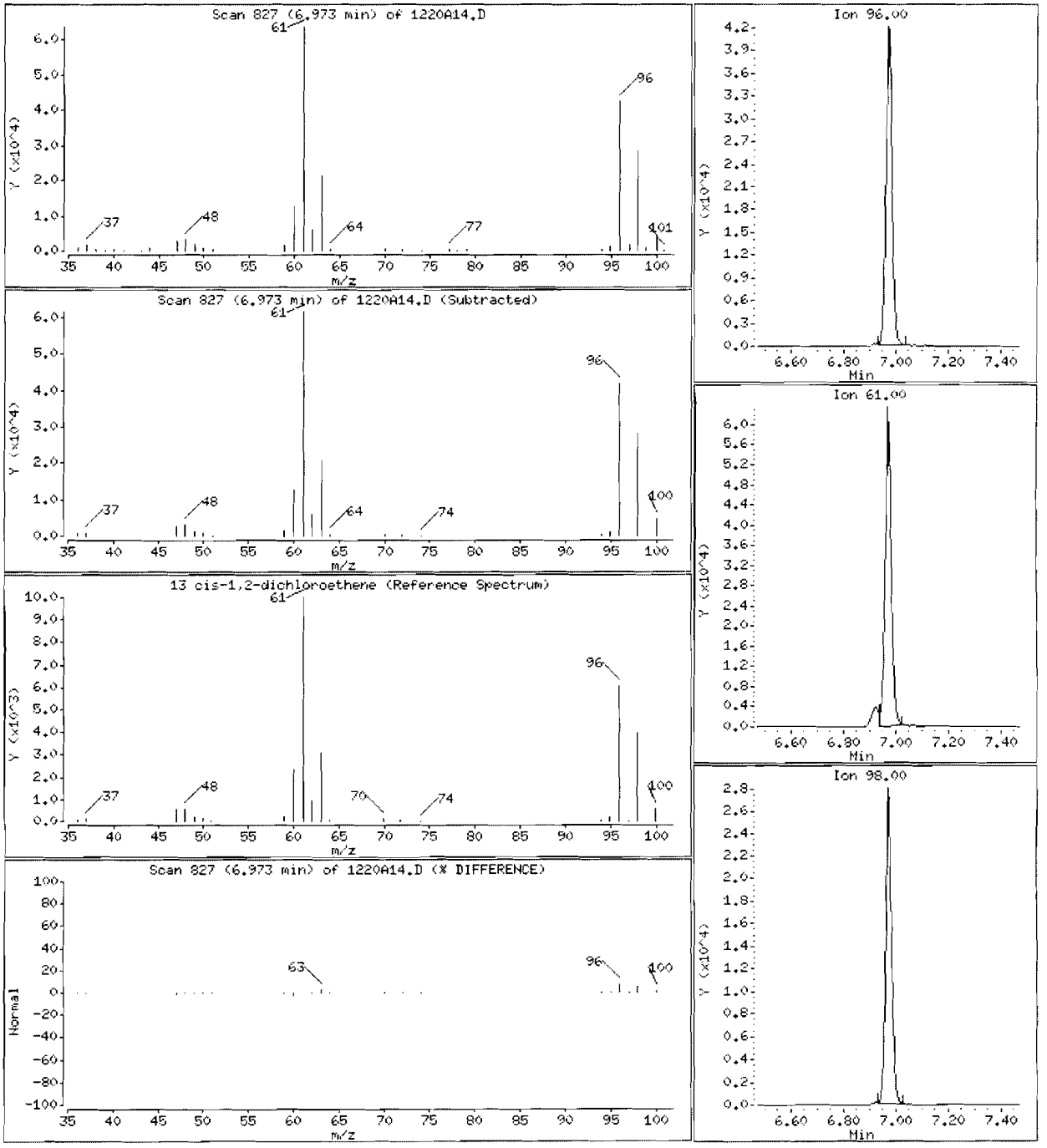
Operator: kl

Column phase:

Column diameter: 0.18

13 cis-1,2-dichloroethene

Concentration: 122.96 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

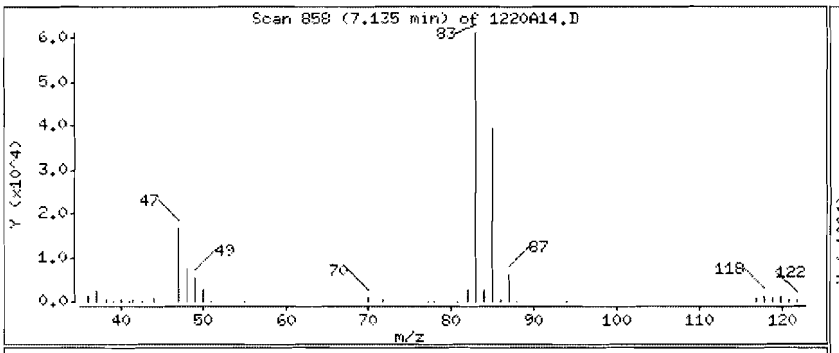
Operator: kl

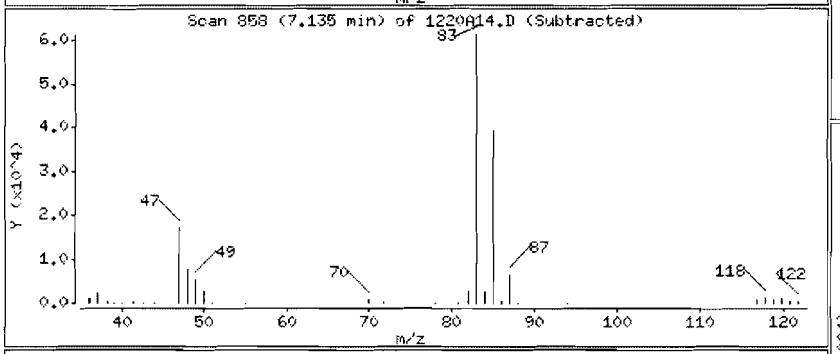
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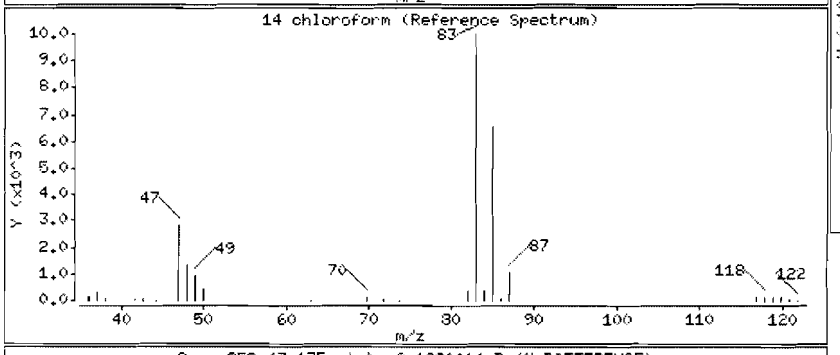
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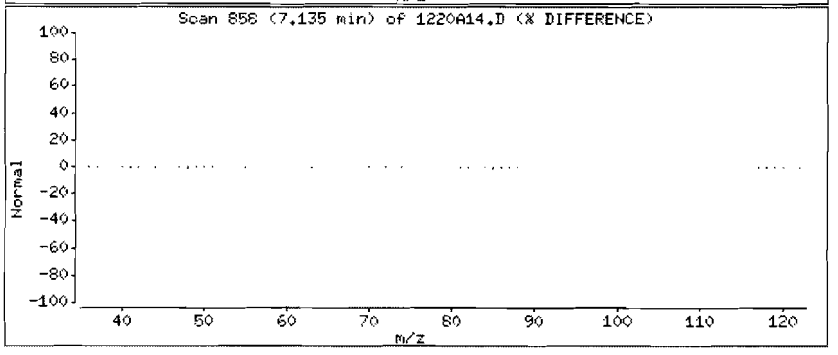
14 chloroform

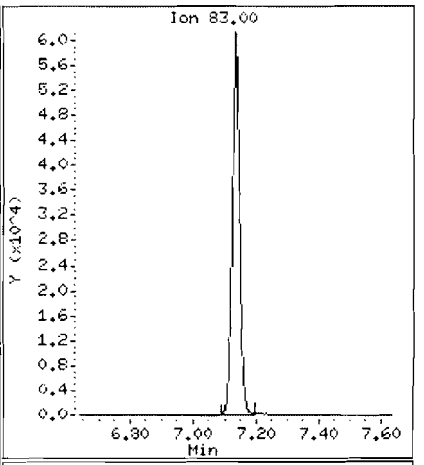
Concentration: 115.95 ngs

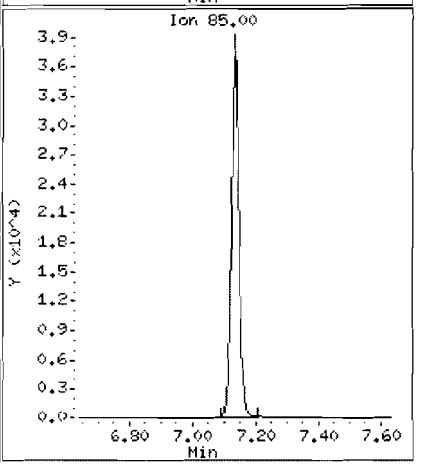












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

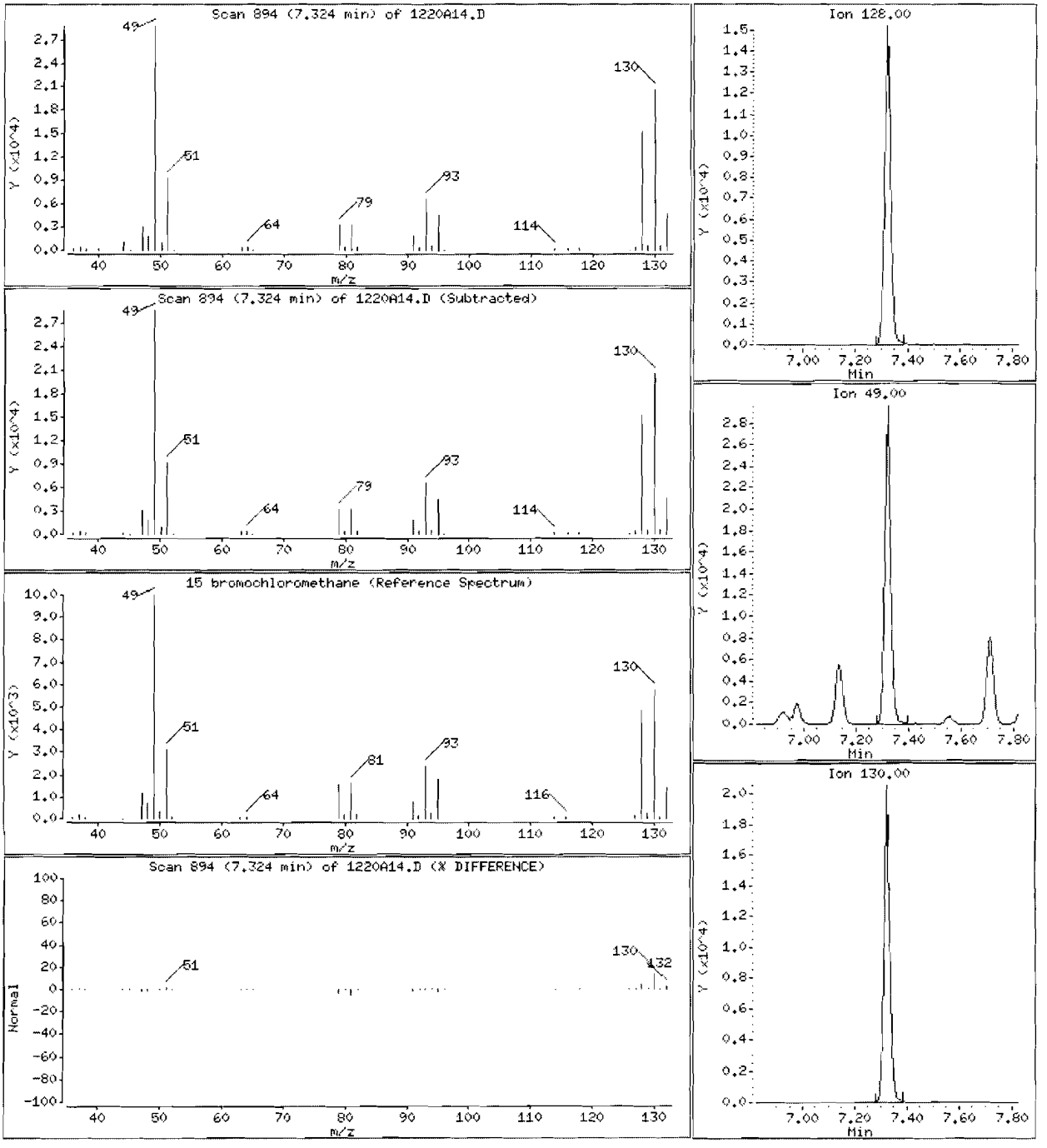
Operator: kl

Column phase:

Column diameter: 0.18

15 bromochloromethane

Concentration: 119.89 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

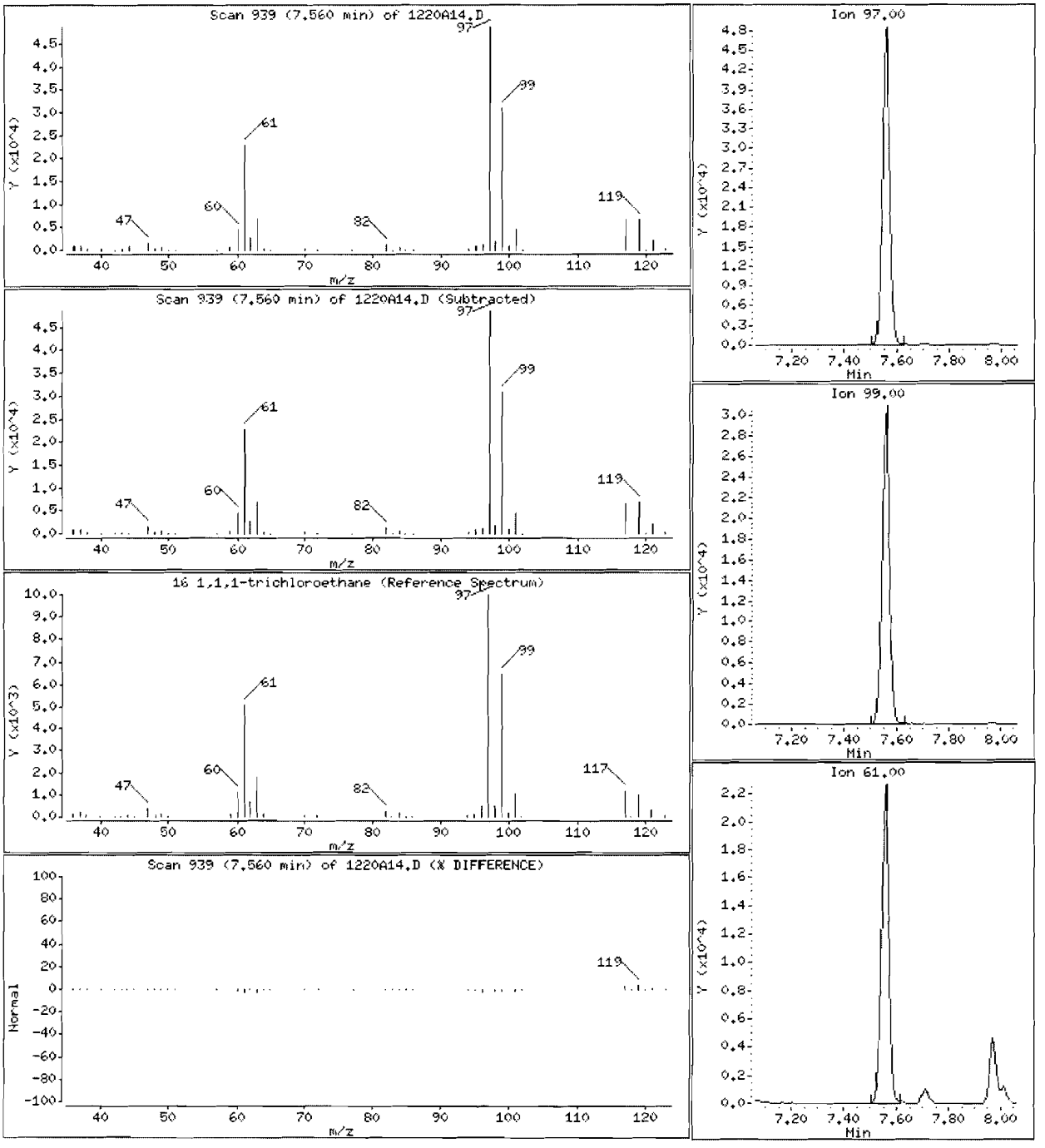
Operator: kl

Column phase:

Column diameter: 0.18

16 1,1,1-trichloroethane

Concentration: 116.65 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

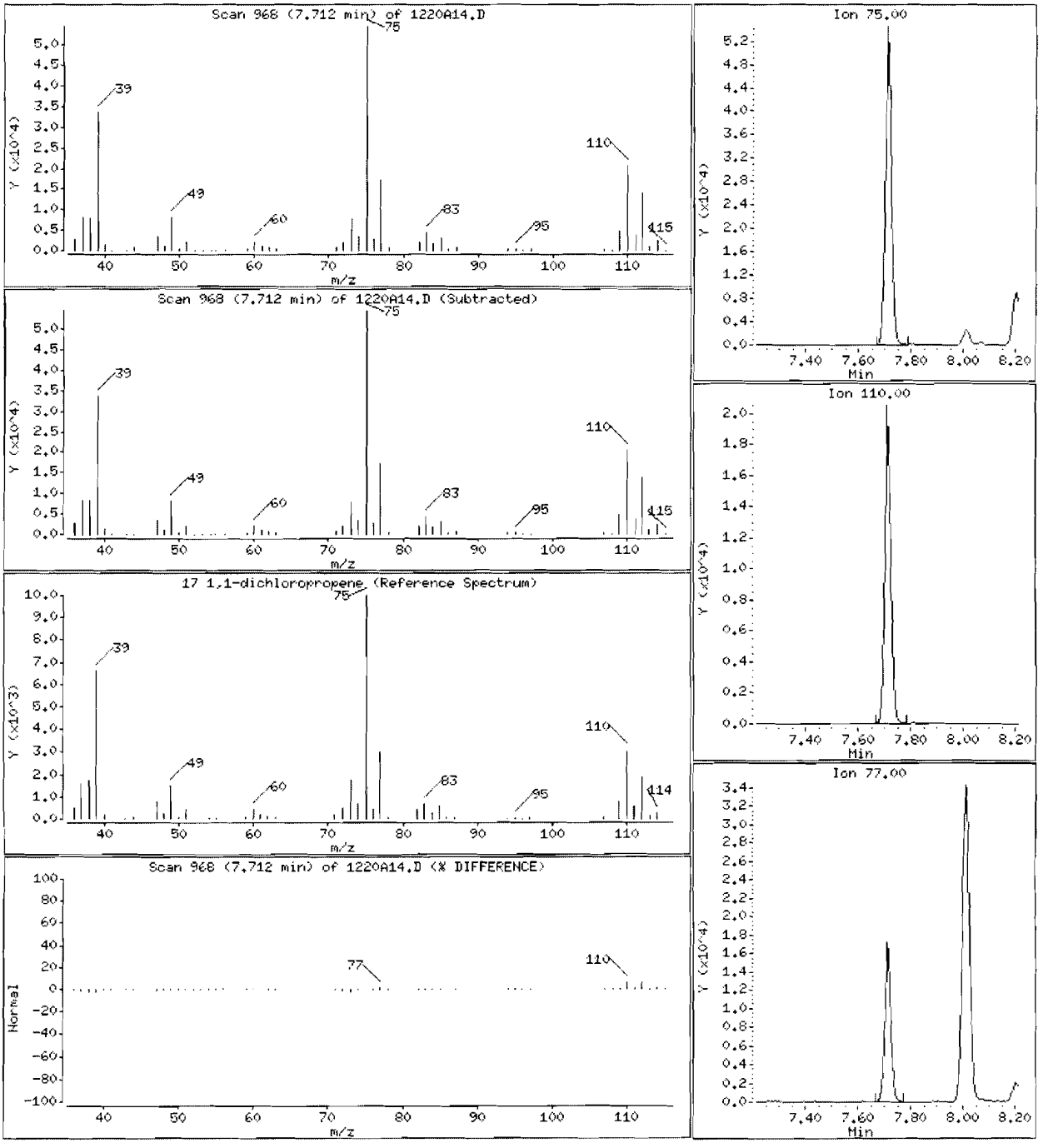
Operator: kl

Column phase:

Column diameter: 0.18

17 1,1-dichloropropene

Concentration: 118.27 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

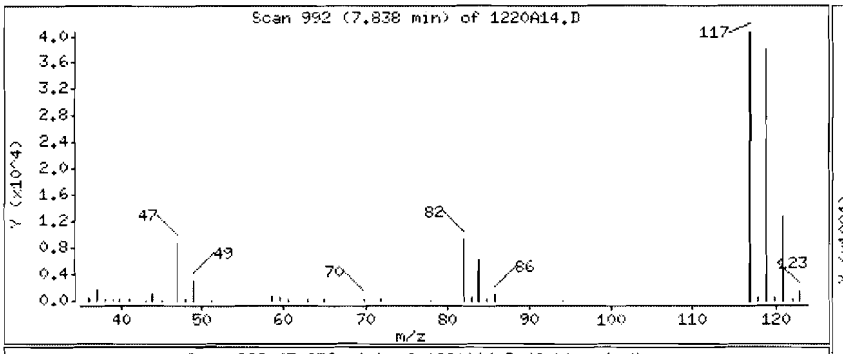
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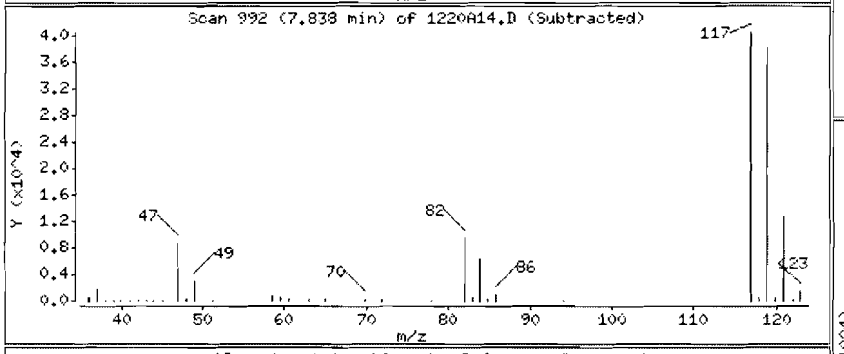
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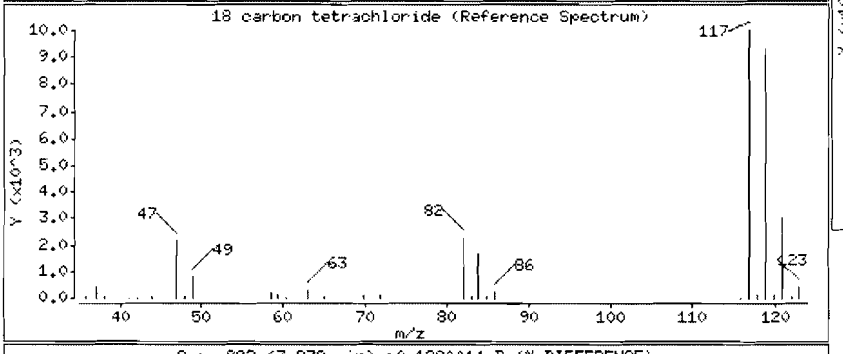
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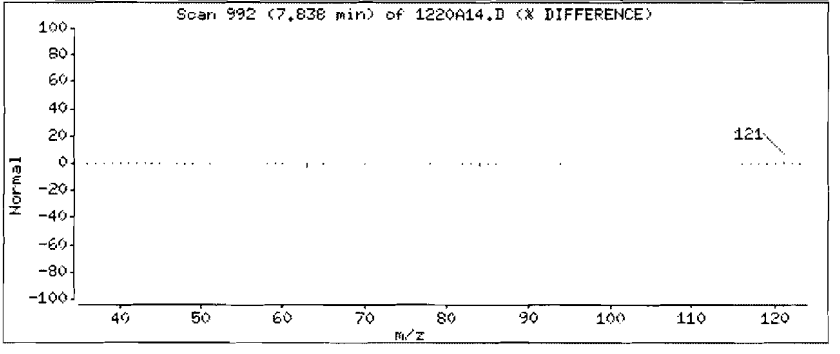
18 carbon tetrachloride

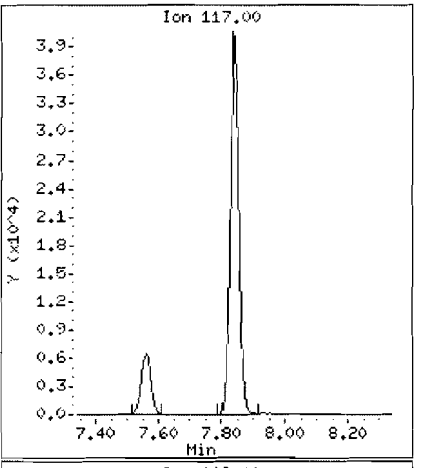
Concentration: 117.49 ngs

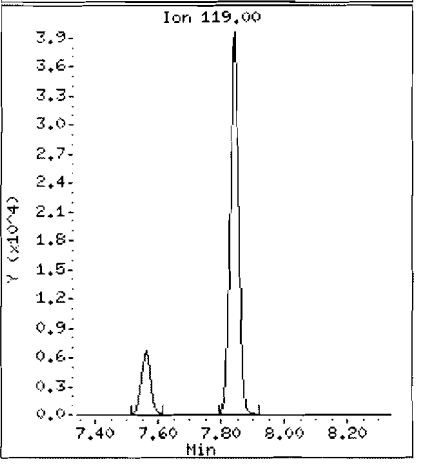












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

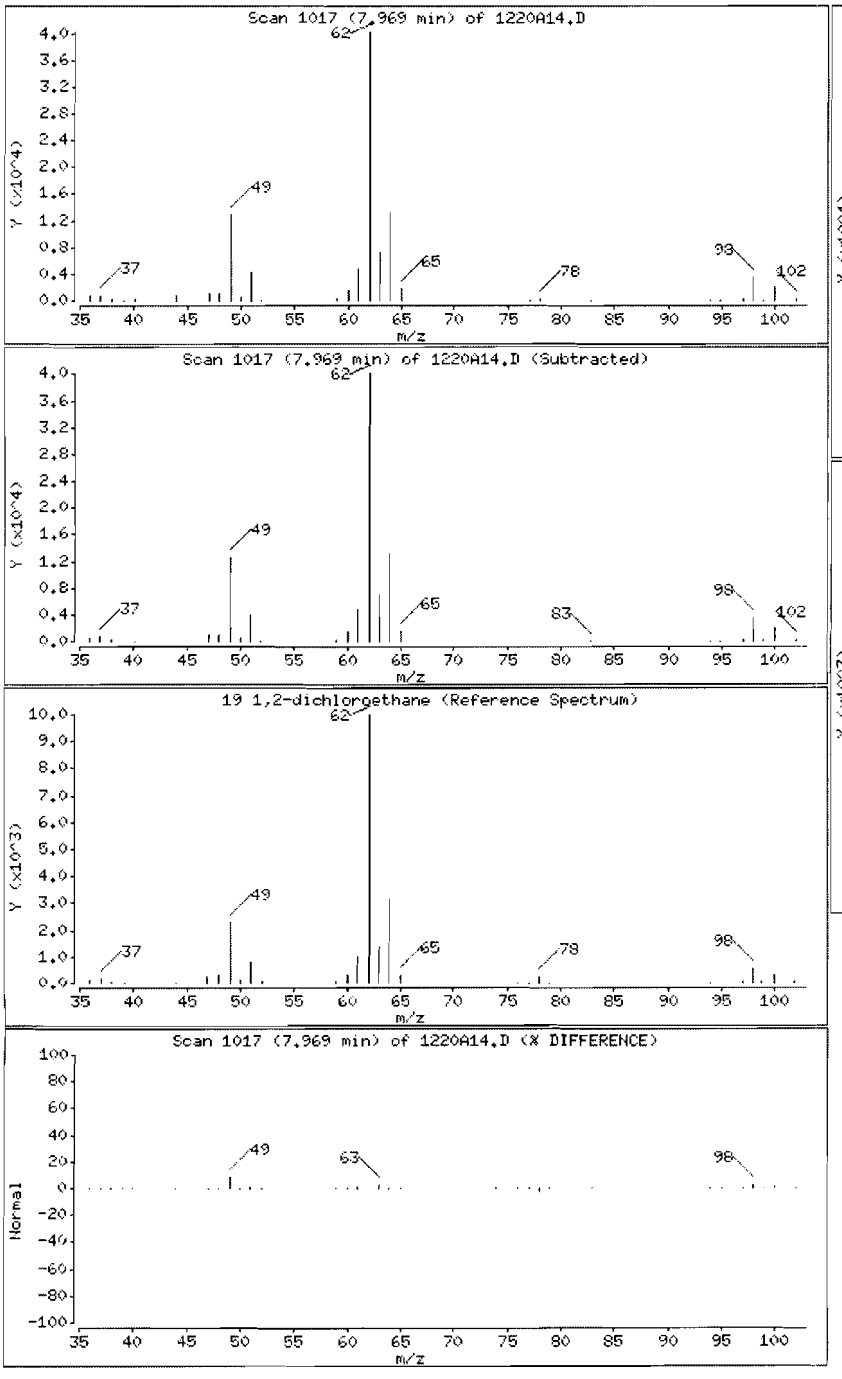
Operator: kl

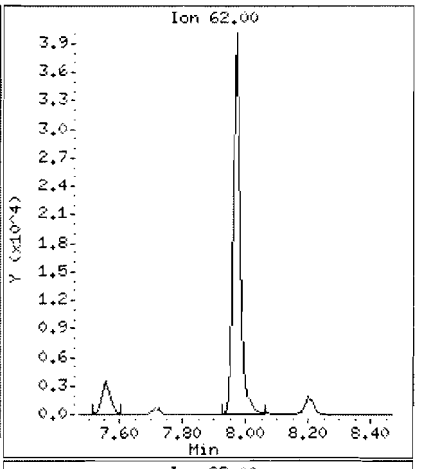
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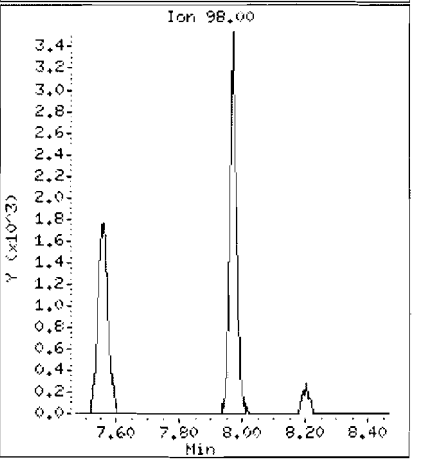
Column diameter: 0.18

19 1,2-dichloroethane

Concentration: 113.62 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

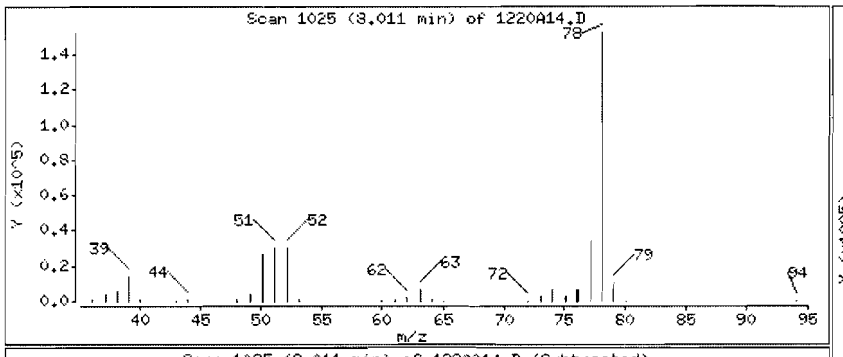
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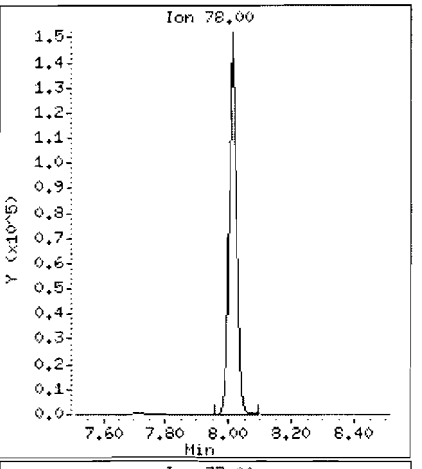
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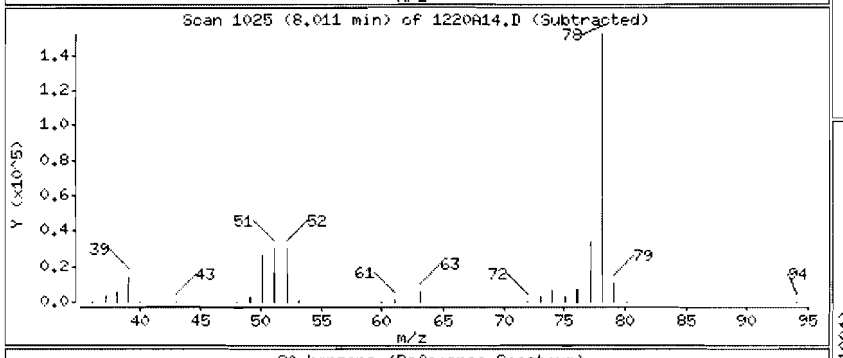
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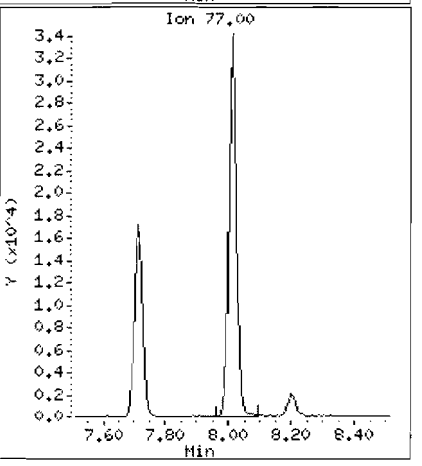
20 benzene

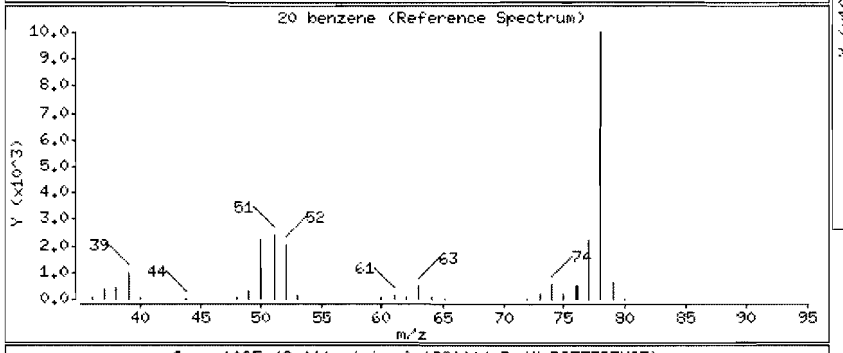
Concentration: 113.48 ngs

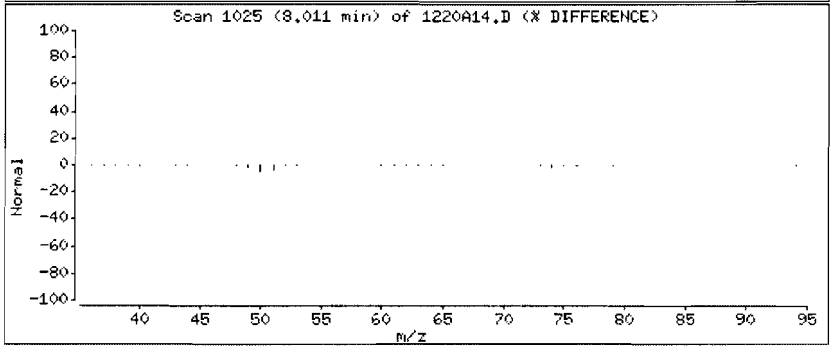












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

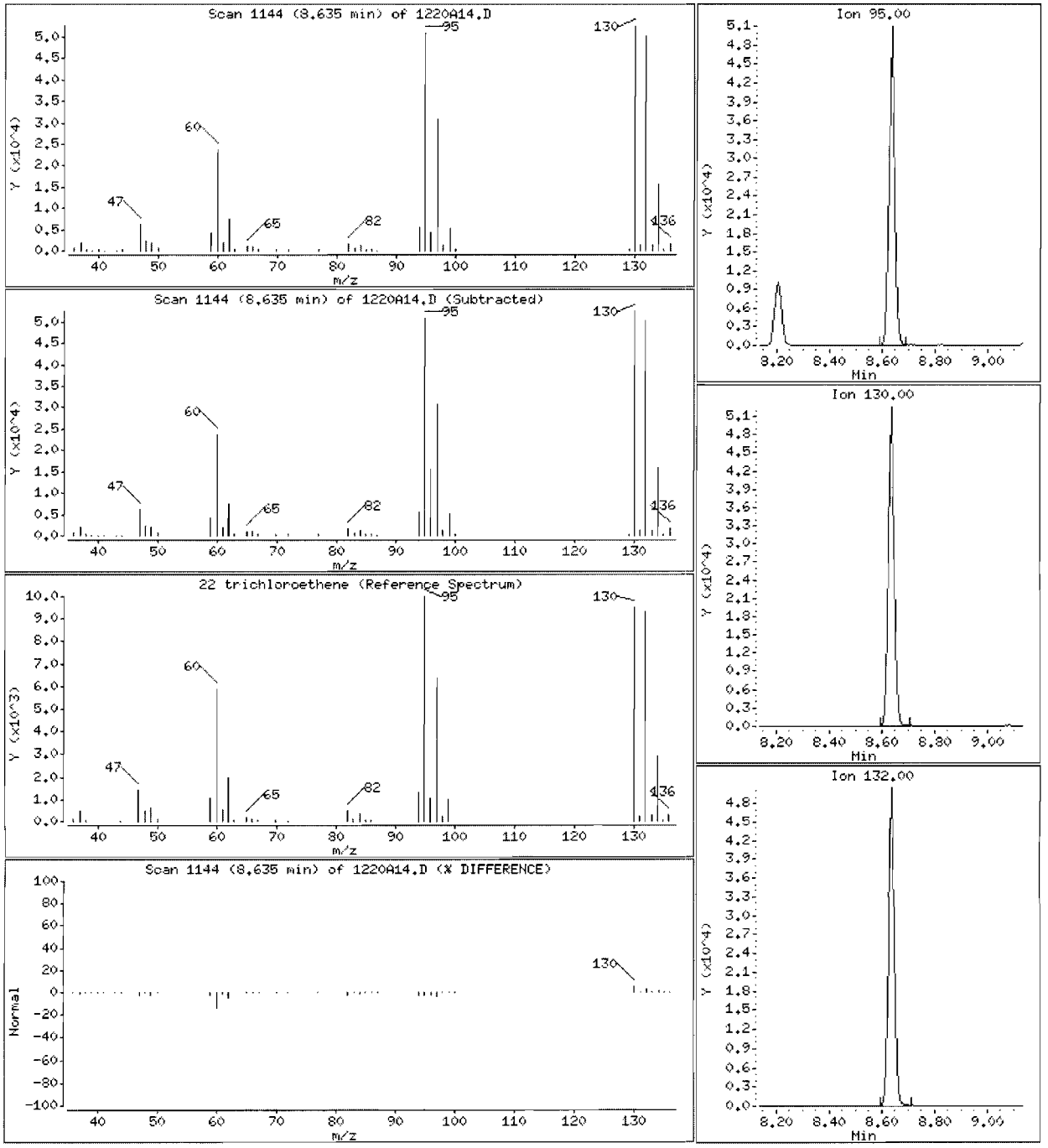
Operator: kl

Column phase:

Column diameter: 0.18

22 trichloroethene

Concentration: 132.26 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

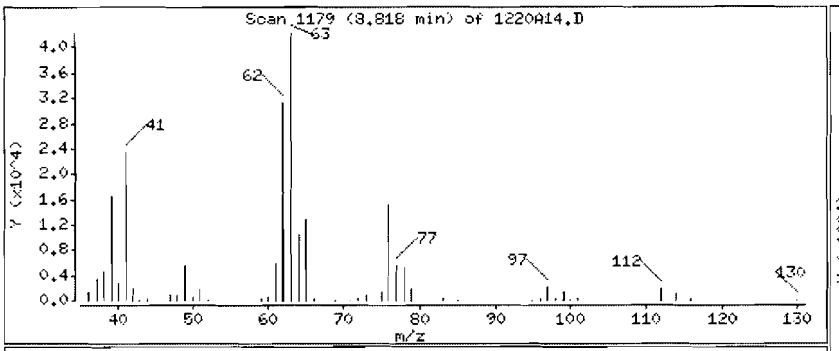
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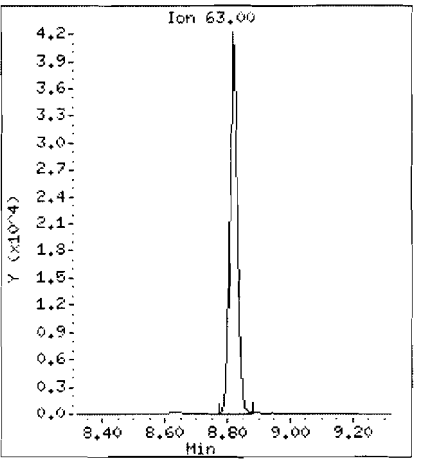
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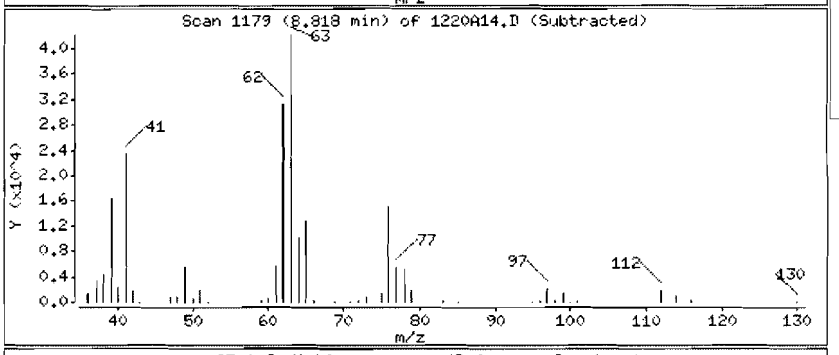
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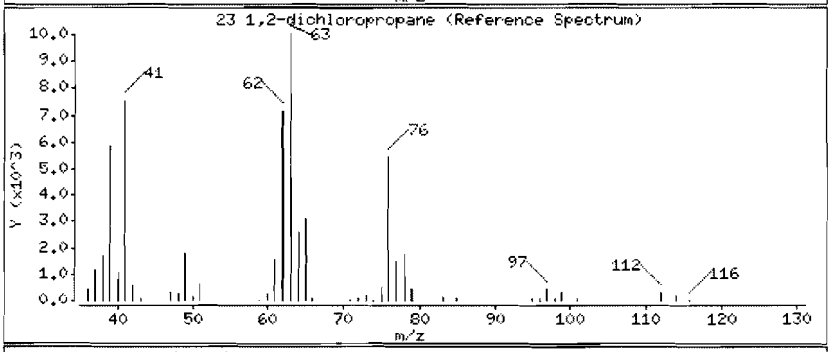
23 1,2-dichloropropane

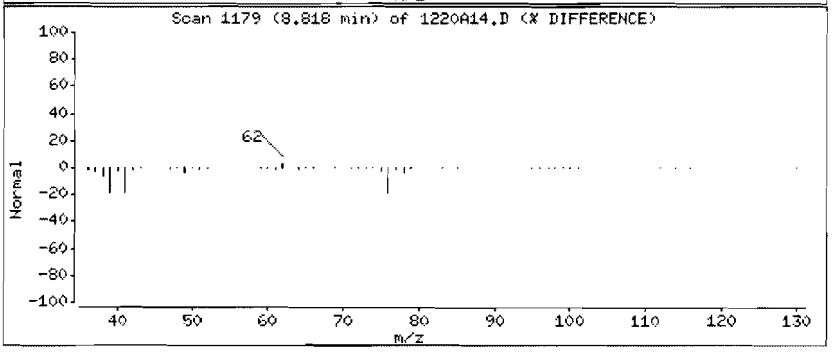
Concentration: 115.54 ngs











Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

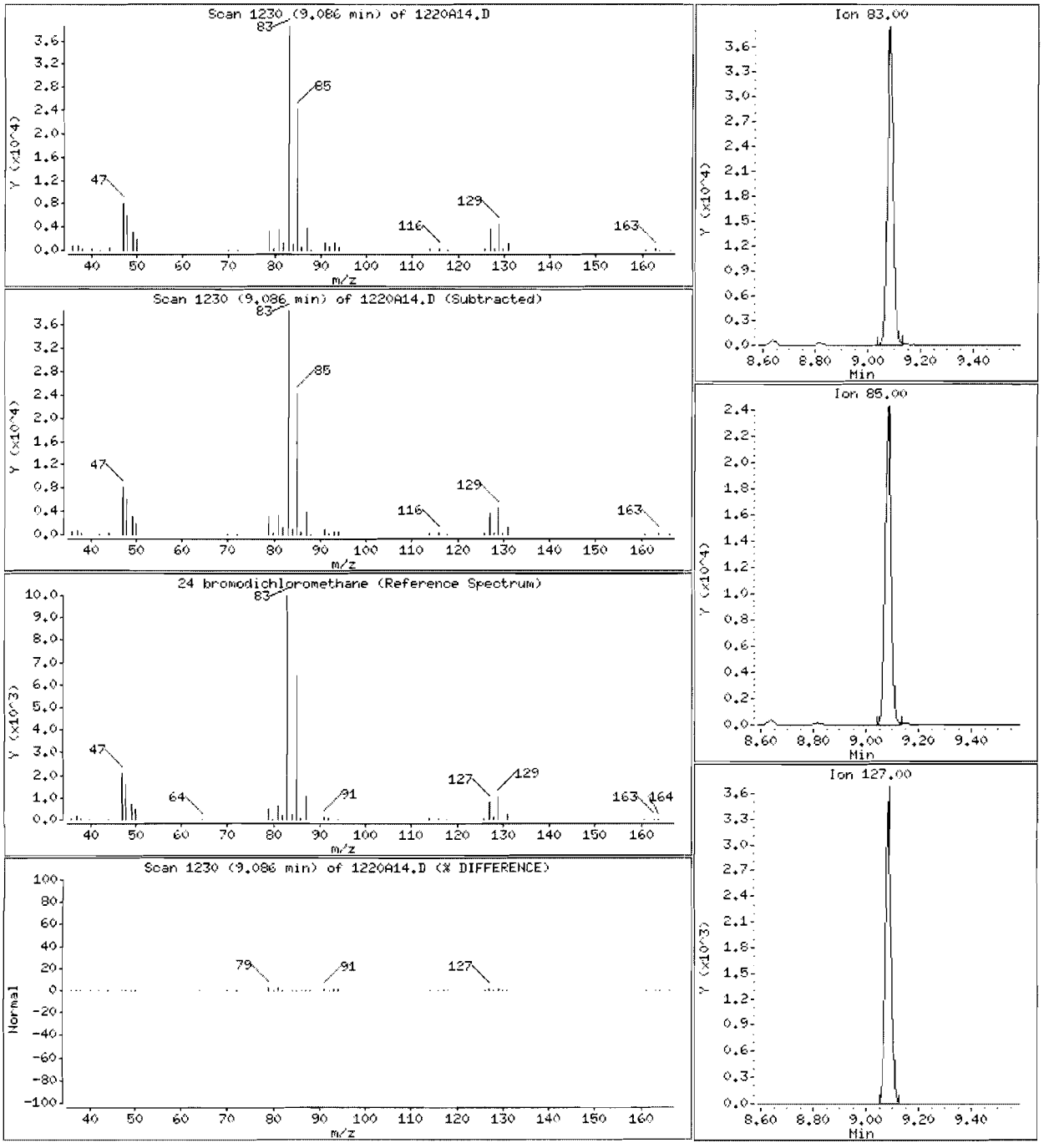
Operator: kl

Column phase:

Column diameter: 0.18

24 bromodichloromethane

Concentration: 109.99 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

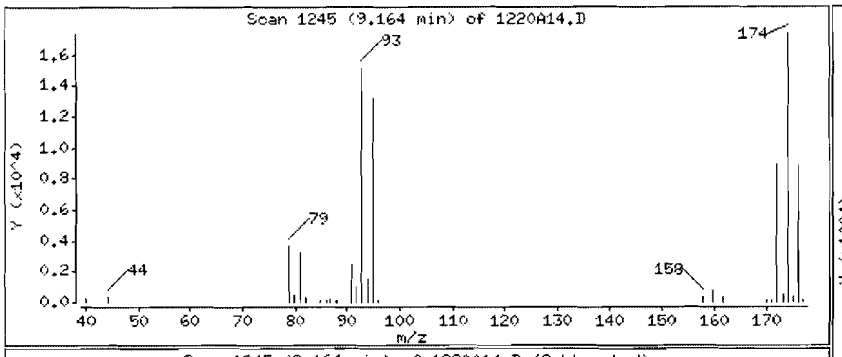
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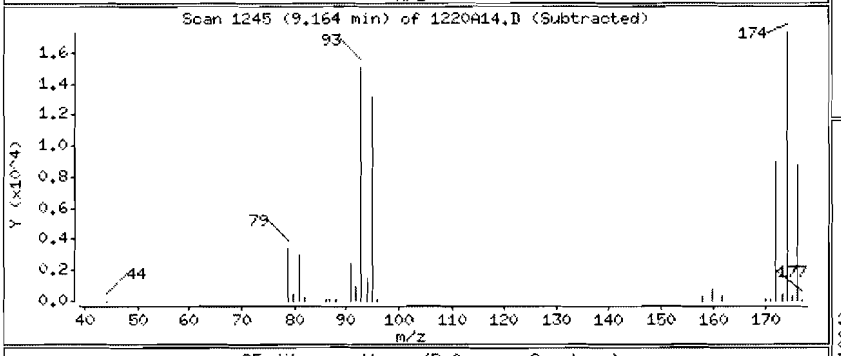
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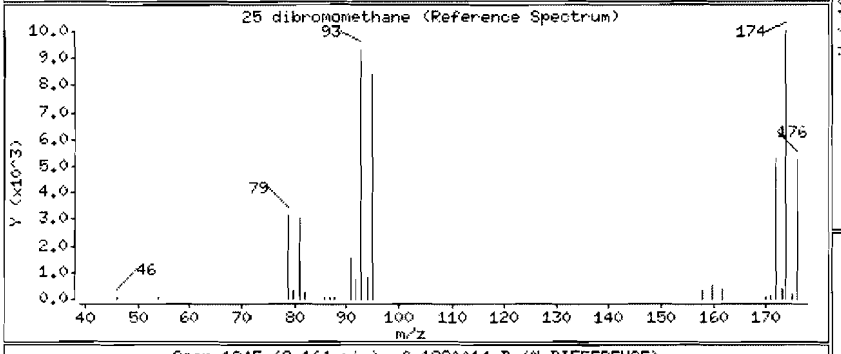
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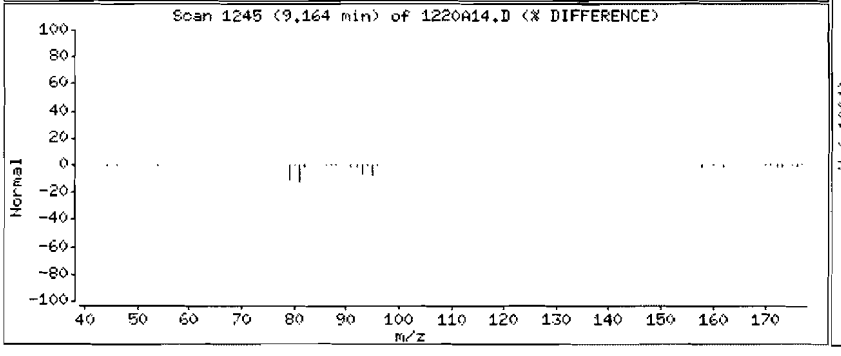
25 dibromomethane

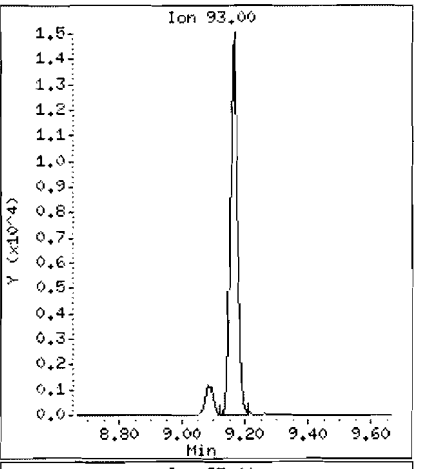
Concentration: 109.80 ngs

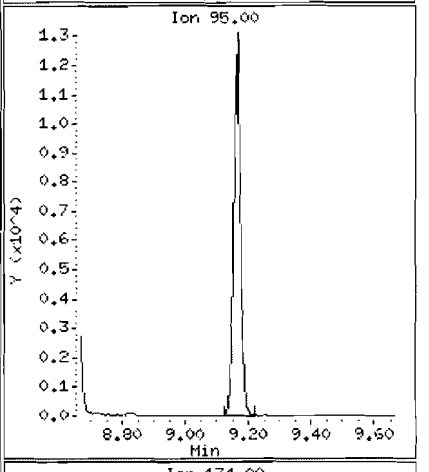


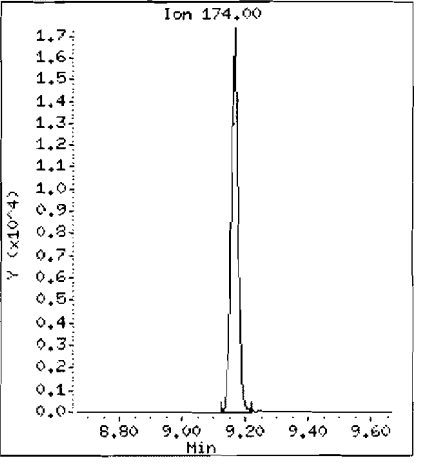












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

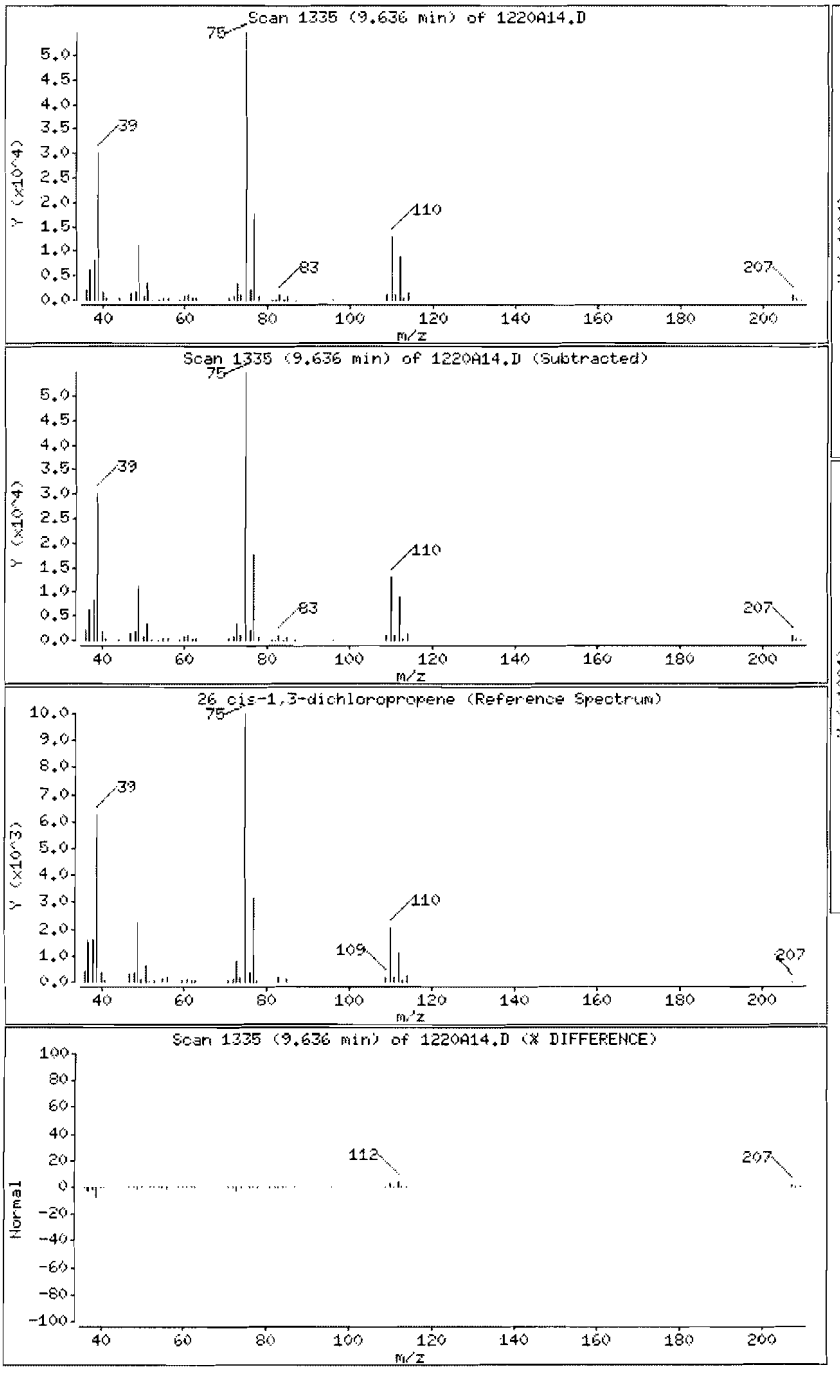
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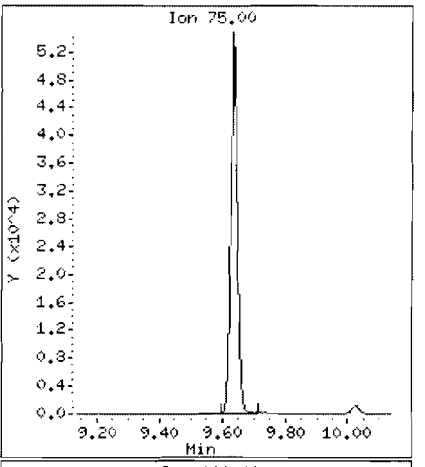
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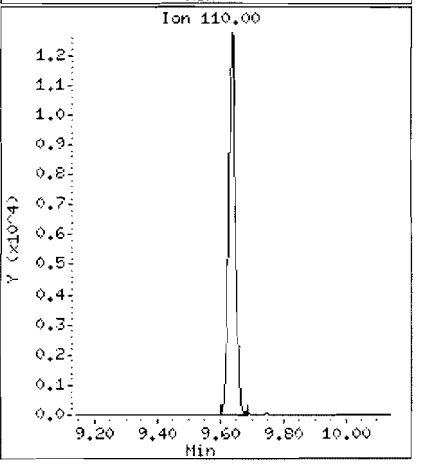
Column diameter: 0.18

26 cis-1,3-dichloropropene

Concentration: 119.24 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

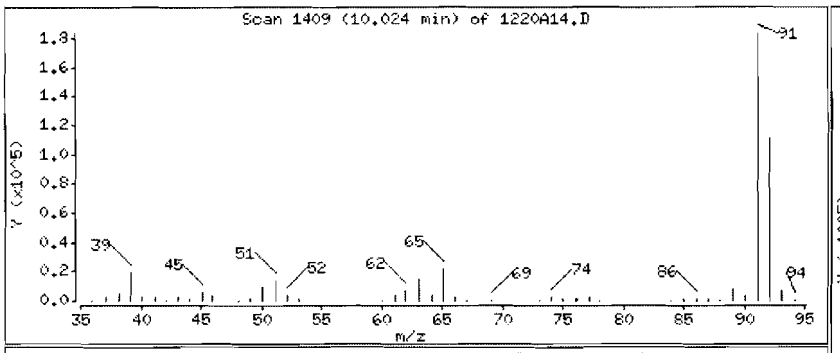
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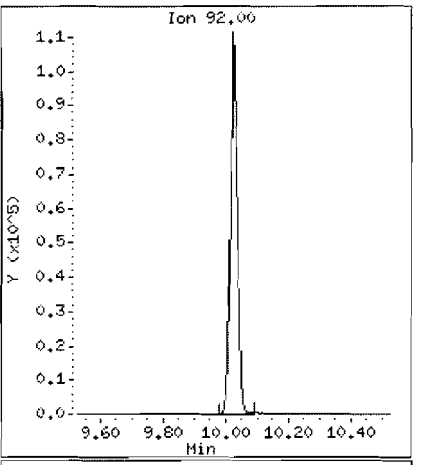
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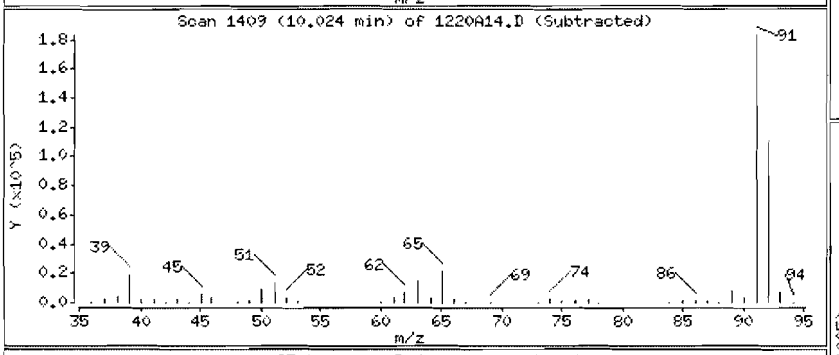
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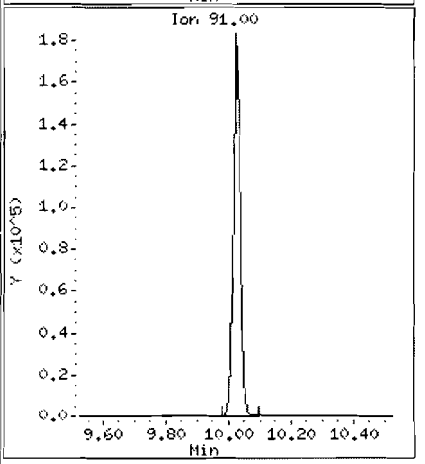
27 toluene

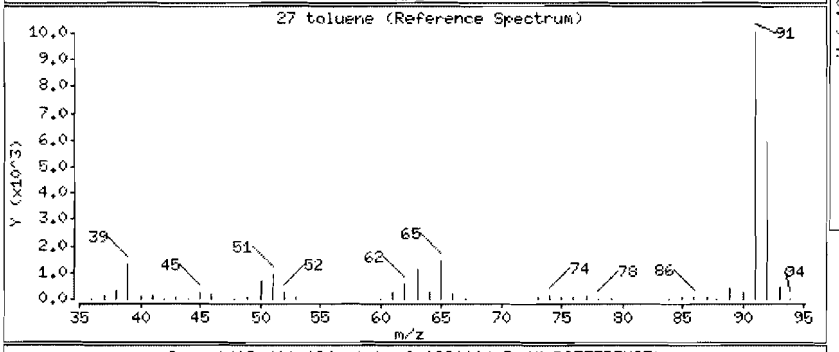
Concentration: 115.98 ngs

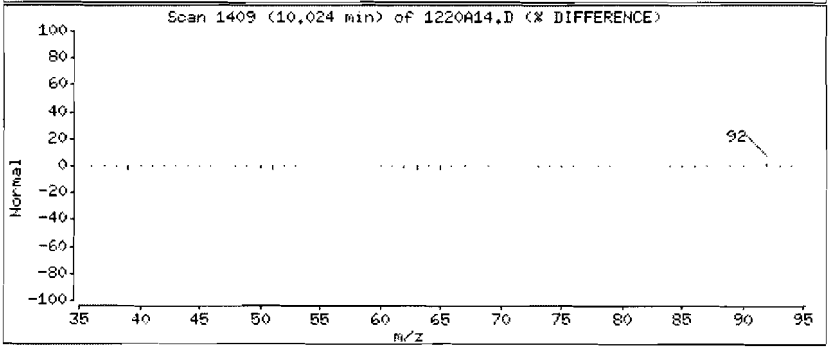












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

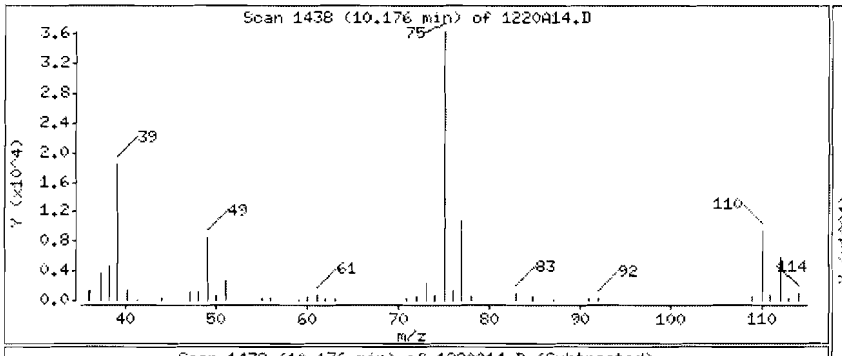
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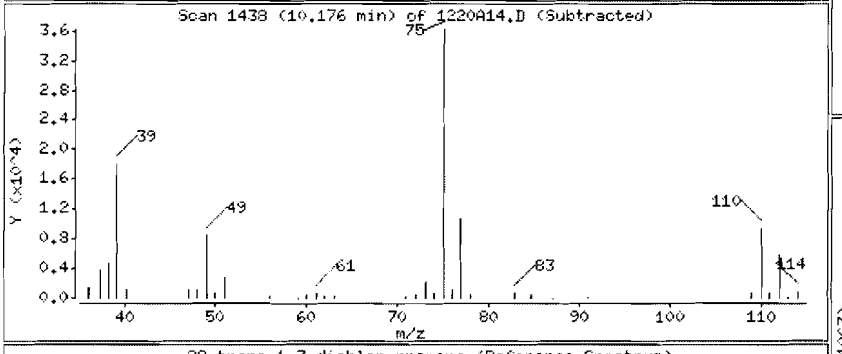
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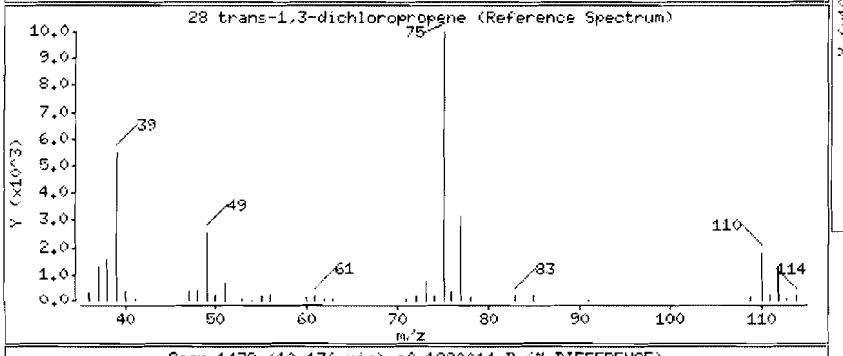
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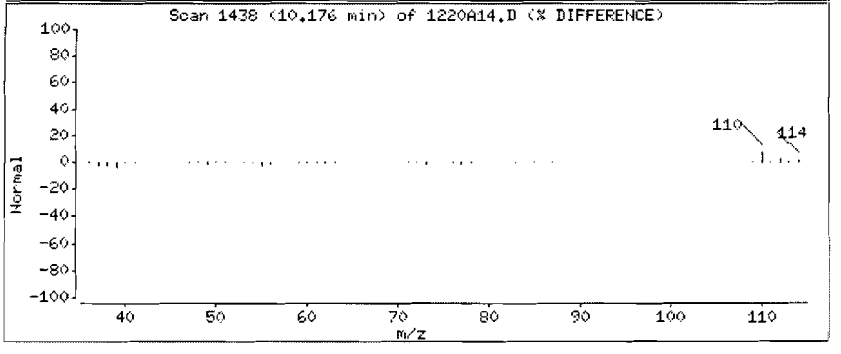
28 trans-1,3-dichloropropene

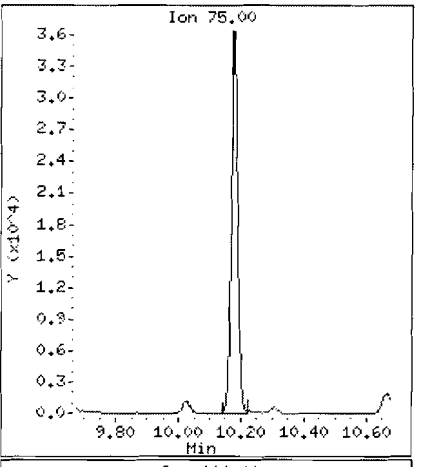
Concentration: 100.48 ngs

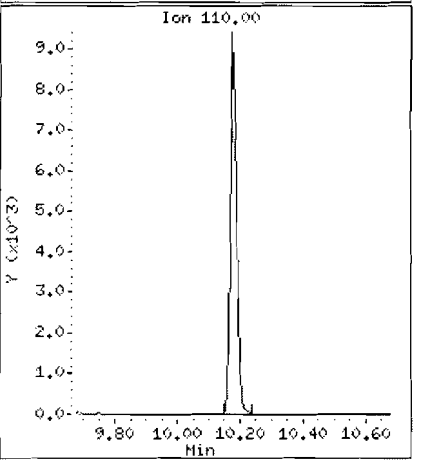












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

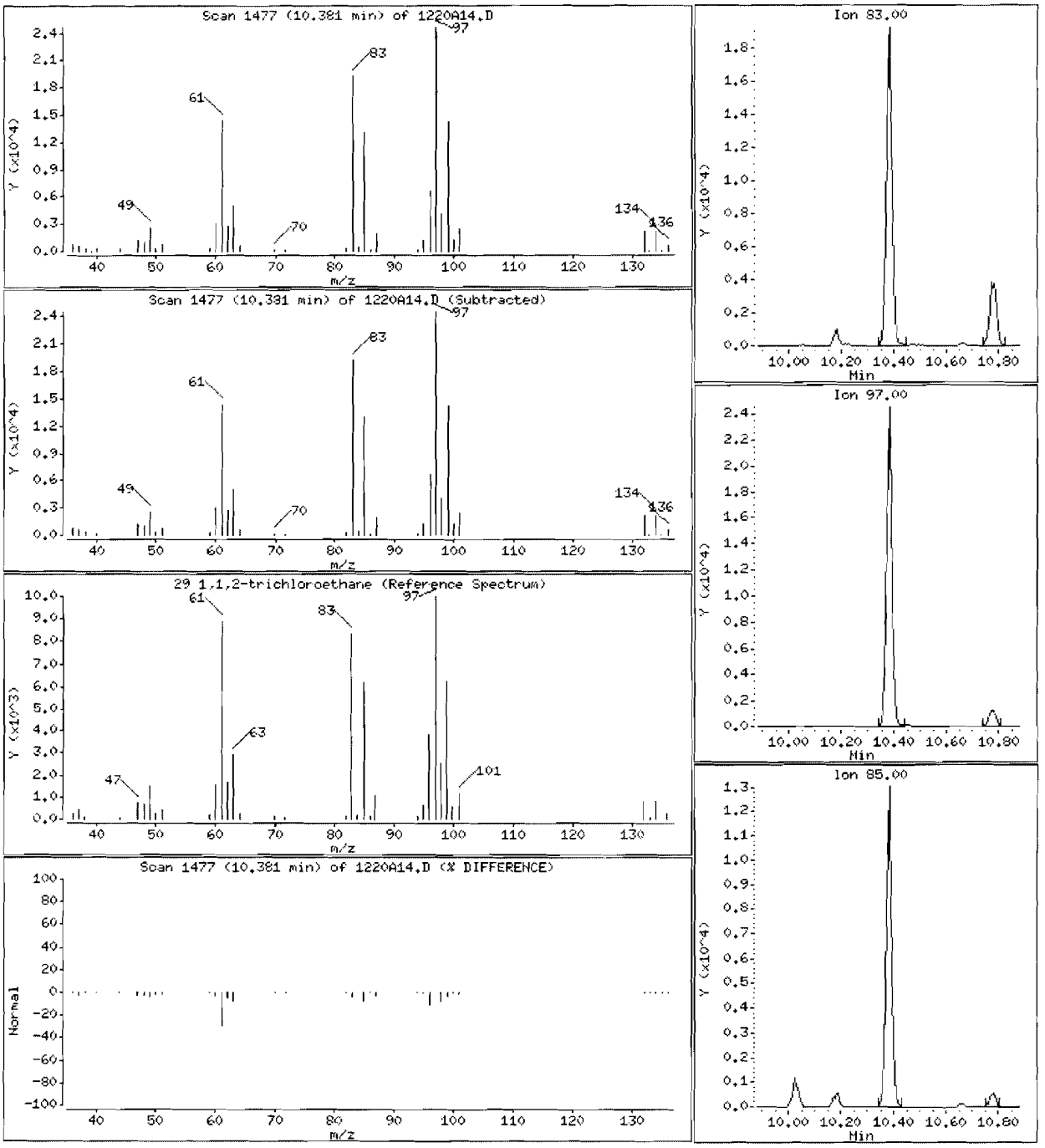
Operator: kl

Column phase:

Column diameter: 0.18

29 1,1,2-trichloroethane

Concentration: 118.19 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: ug580980-4,31,25,,b

Purge Volume: 25.0

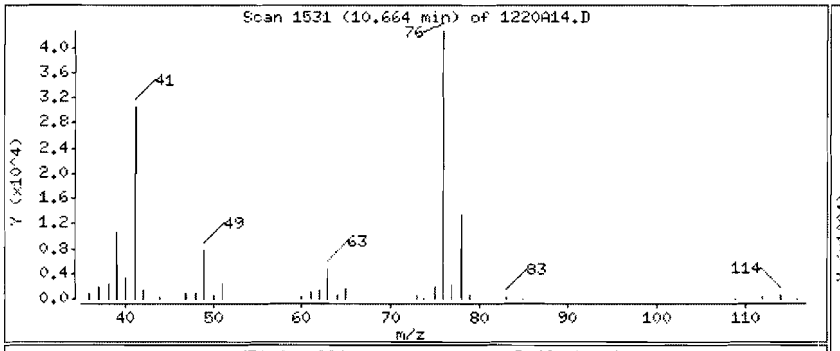
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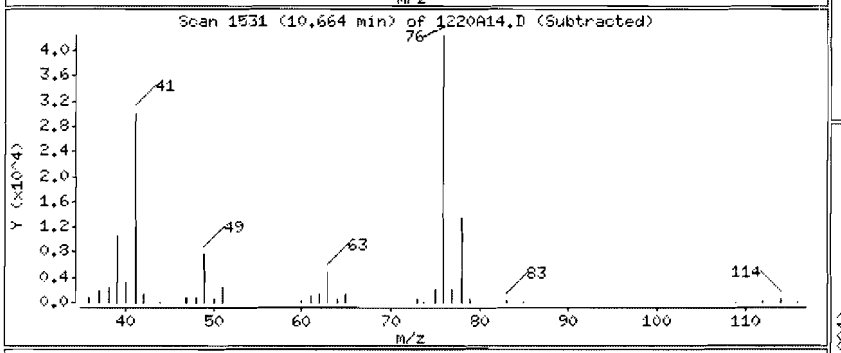
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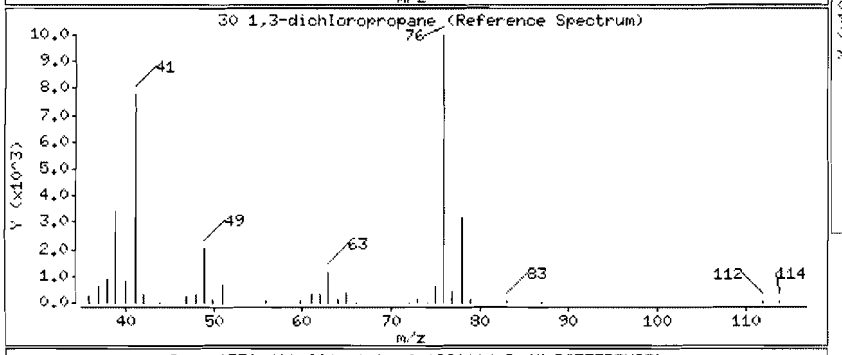
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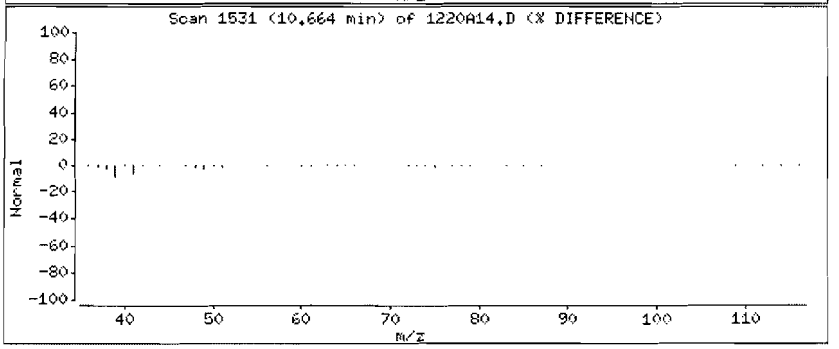
30 1,3-dichloropropane

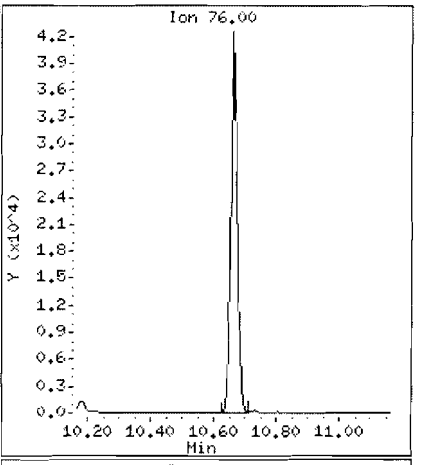
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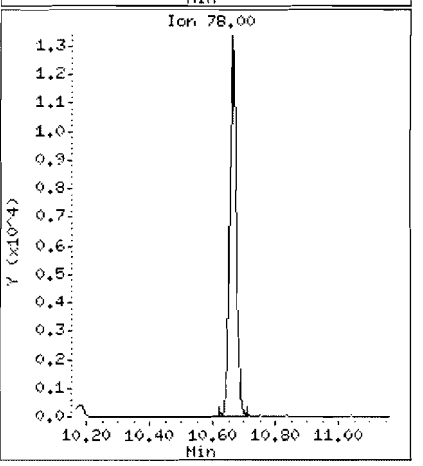












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

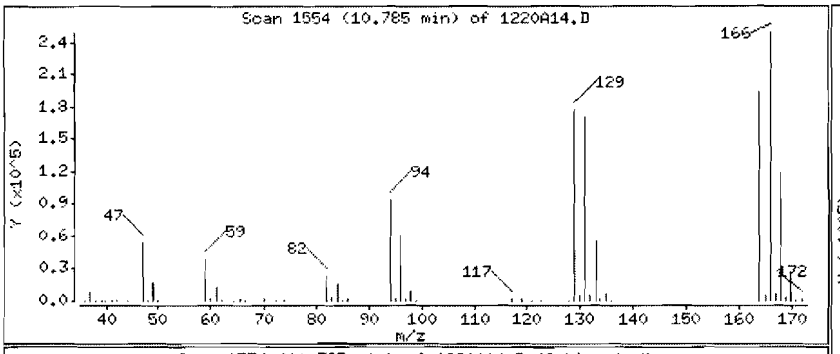
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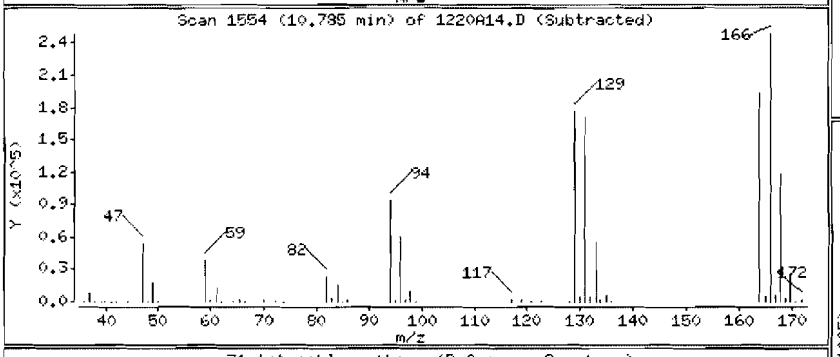
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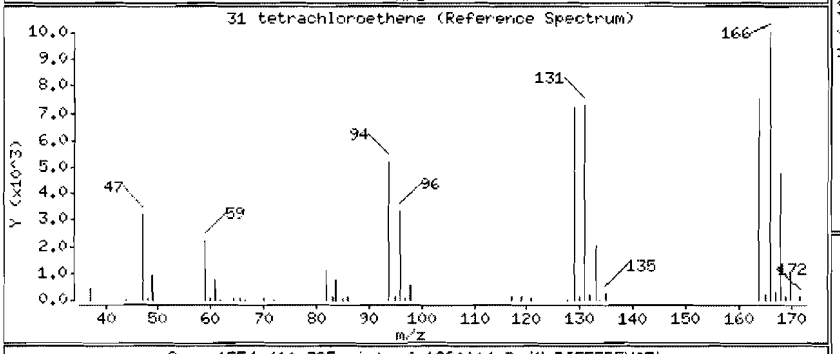
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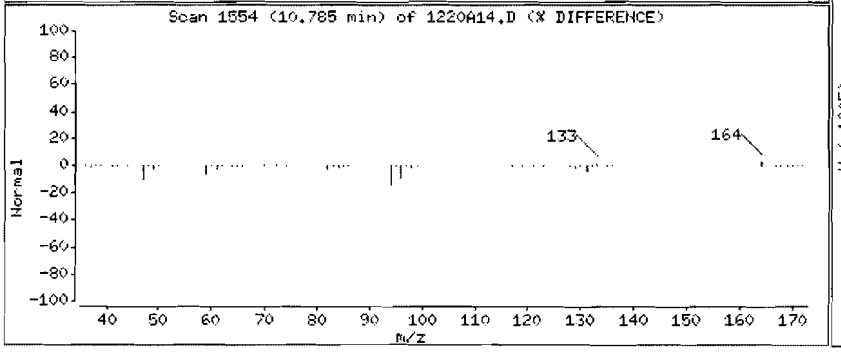
31 tetrachloroethene

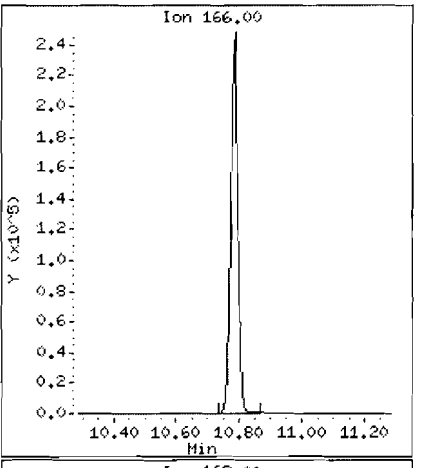
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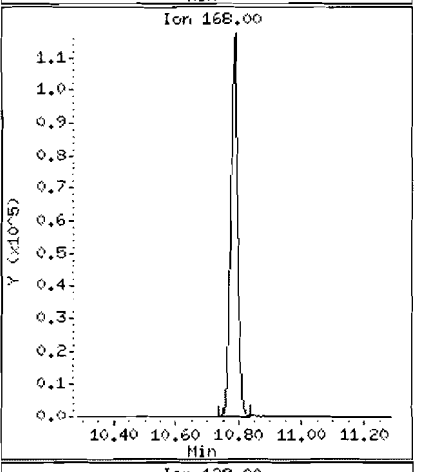


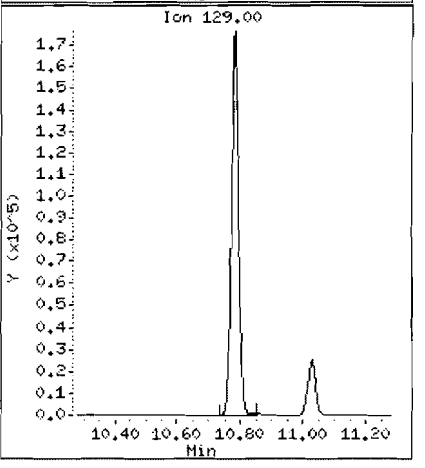












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

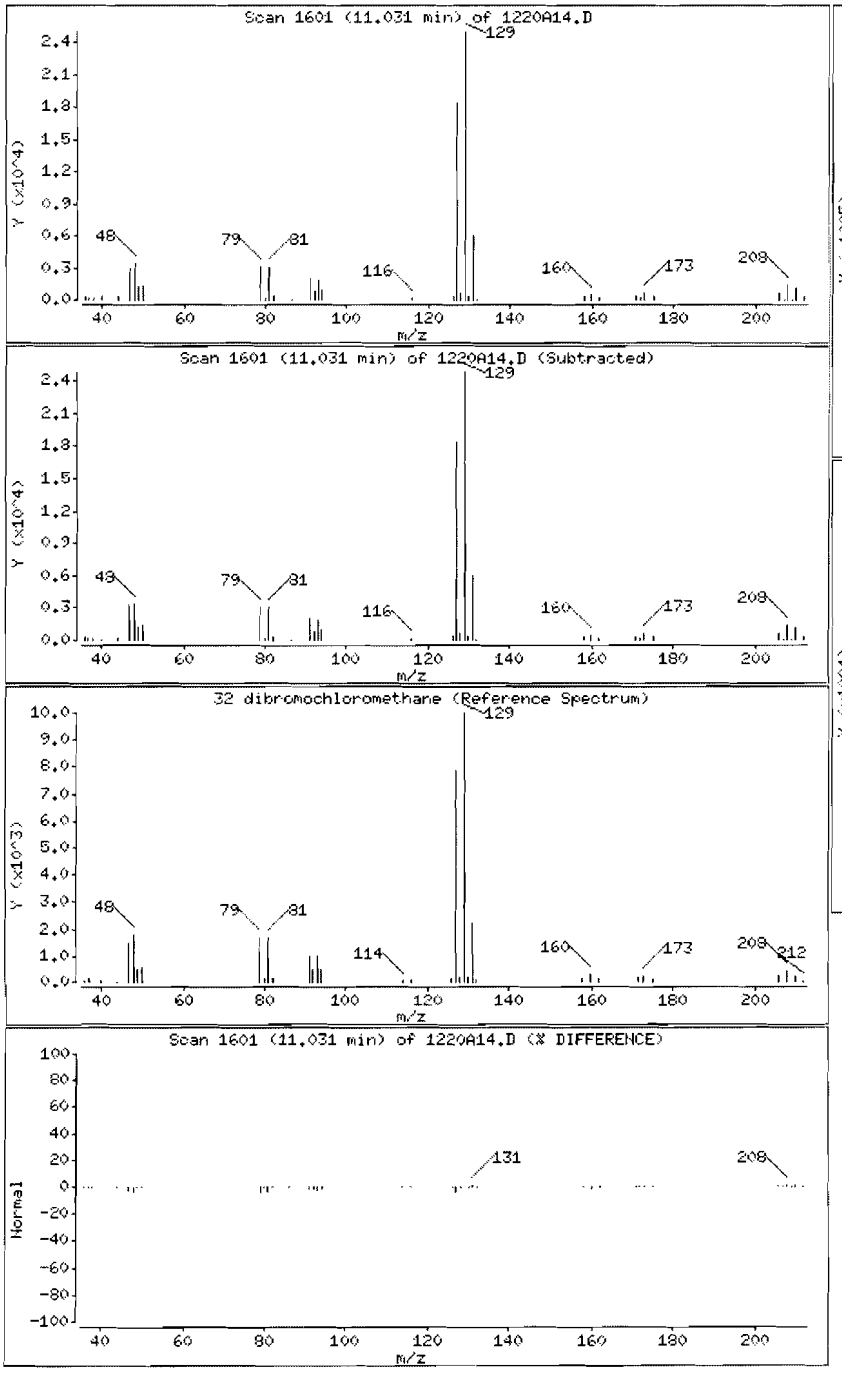
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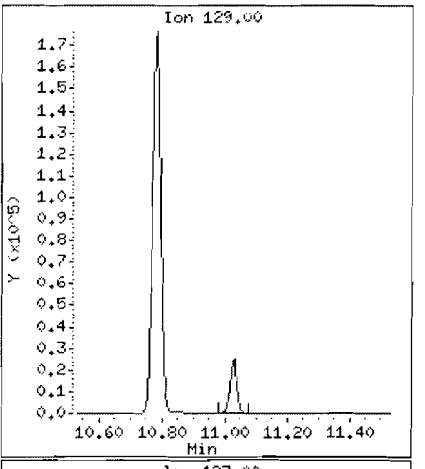
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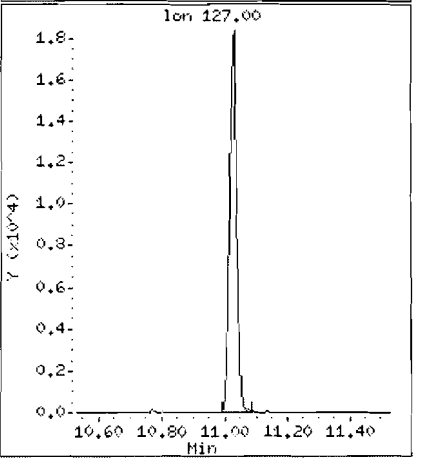
Column diameter: 0.18

32 dibromochloromethane

Concentration: 111.24 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

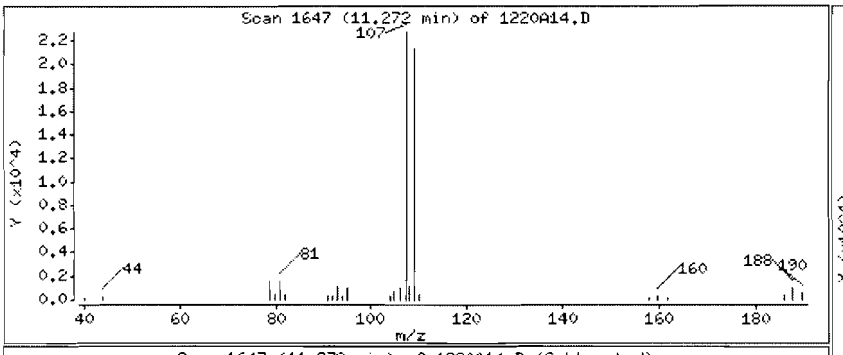
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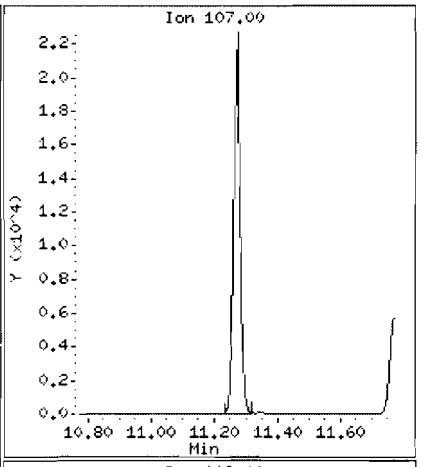
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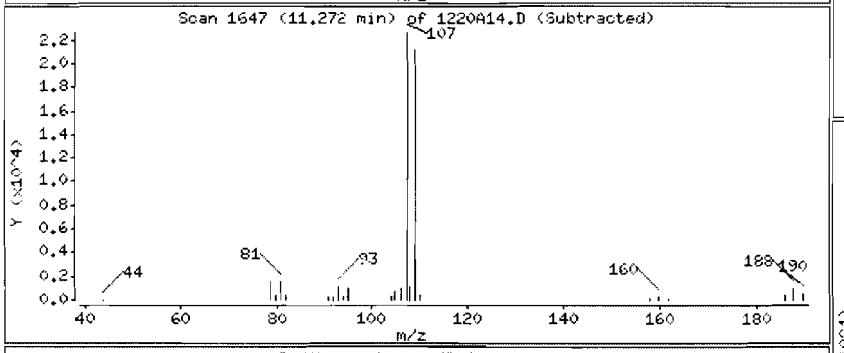
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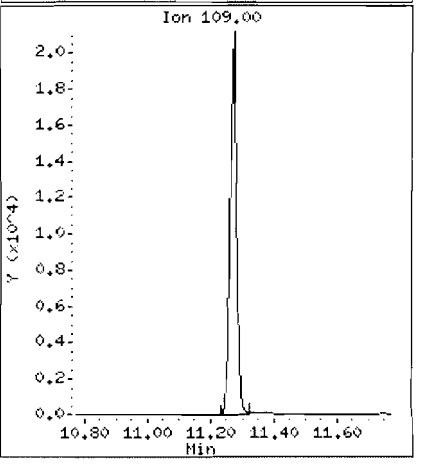
33 1,2-dibromoethane

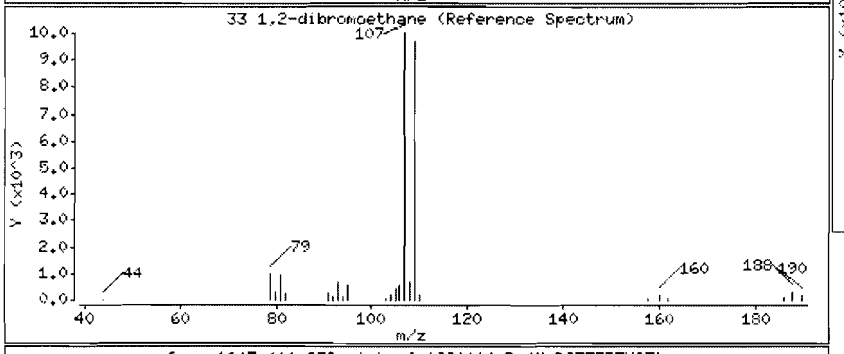
Concentration: 108.80 ngs

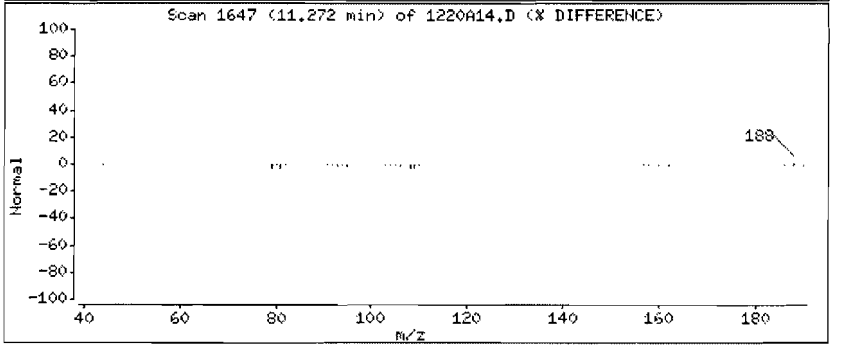












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

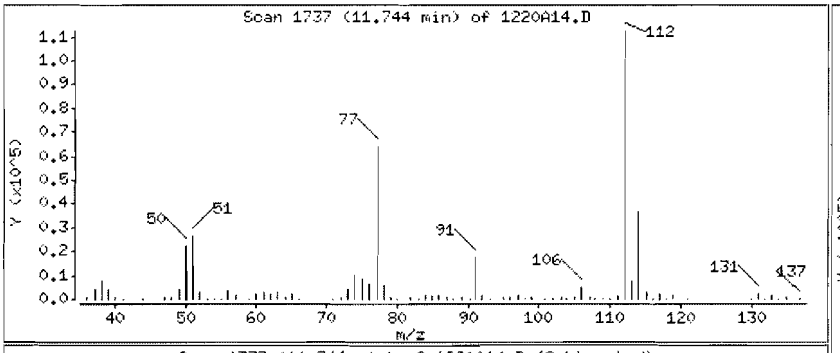
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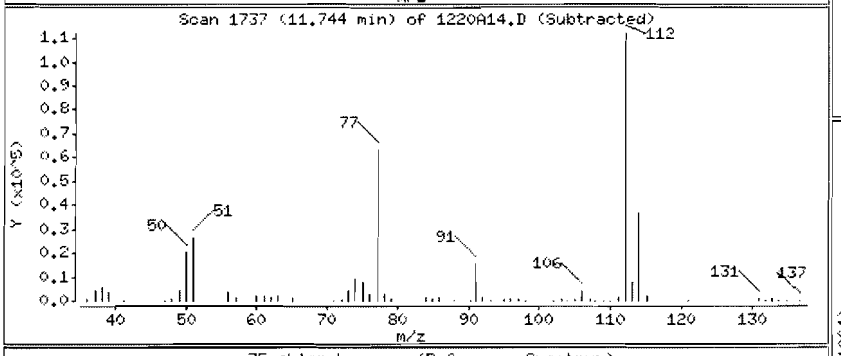
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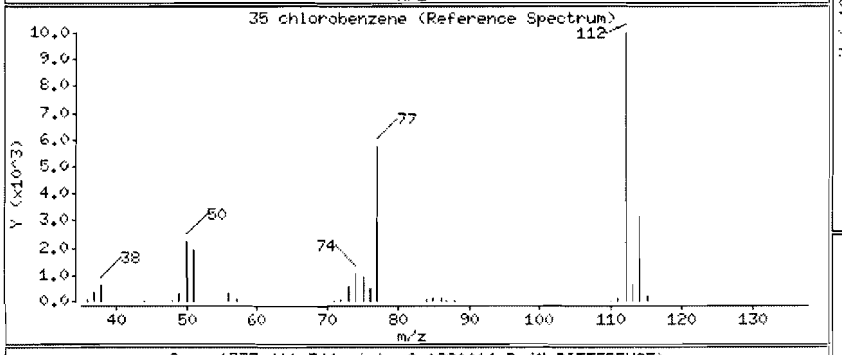
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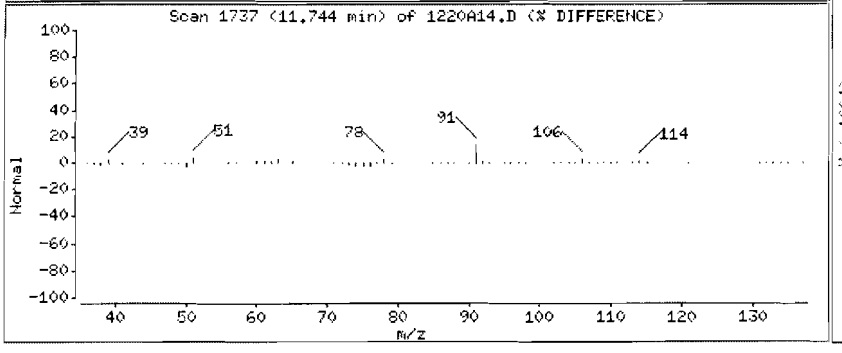
35 chlorobenzene

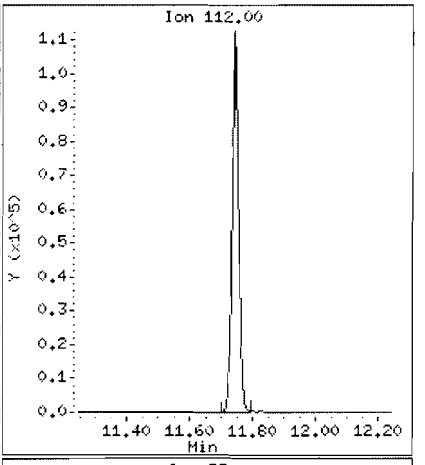
Concentration: 100.55 ngs

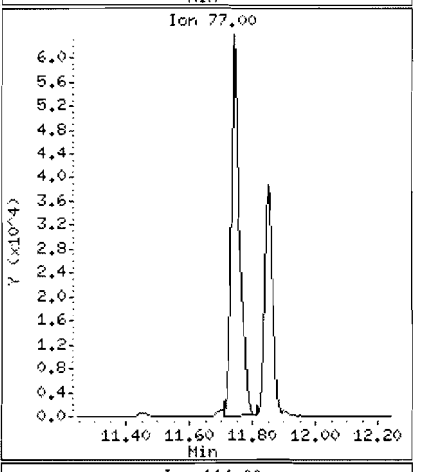


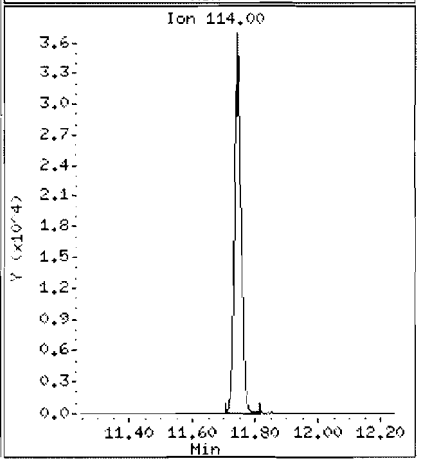












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

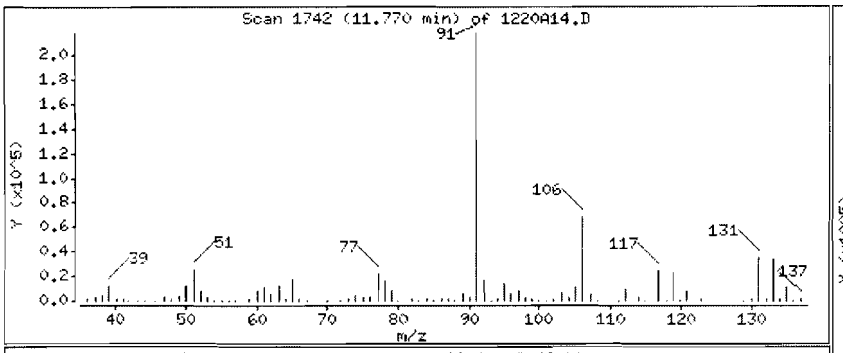
Operator: kl

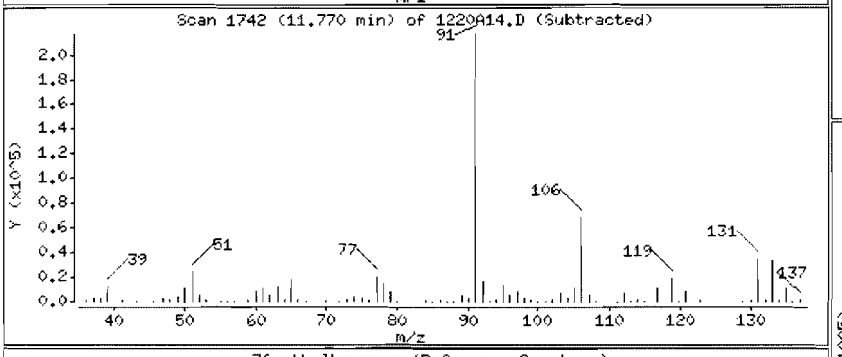
Column phase:

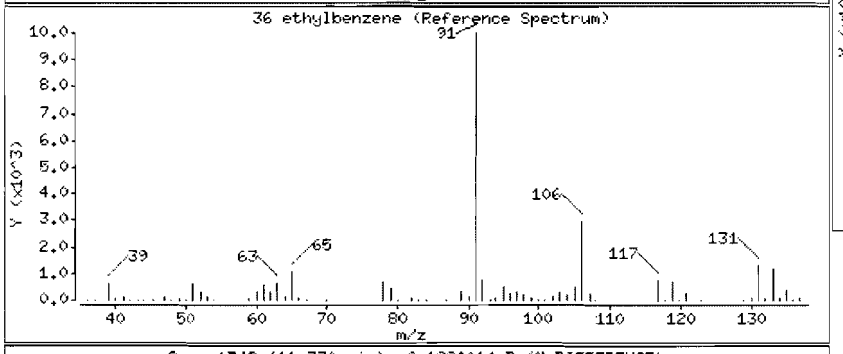
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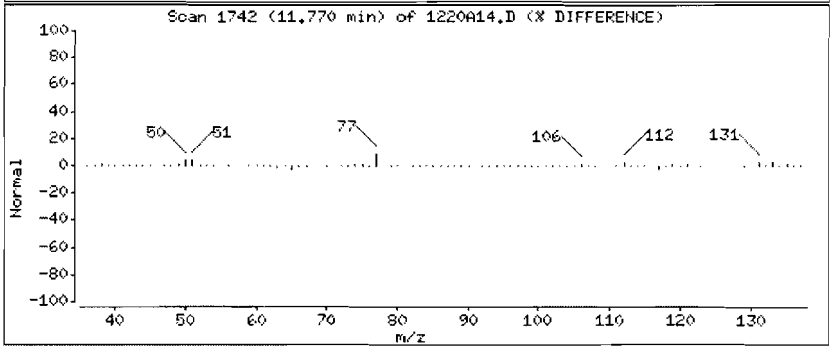
36 ethylbenzene

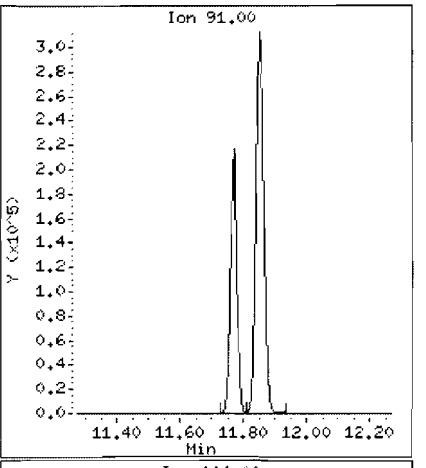
Concentration: 109.26 ngs

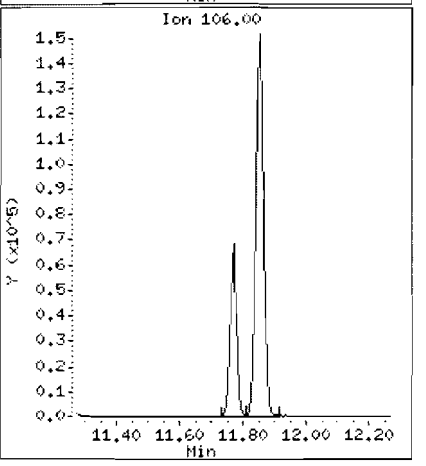












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

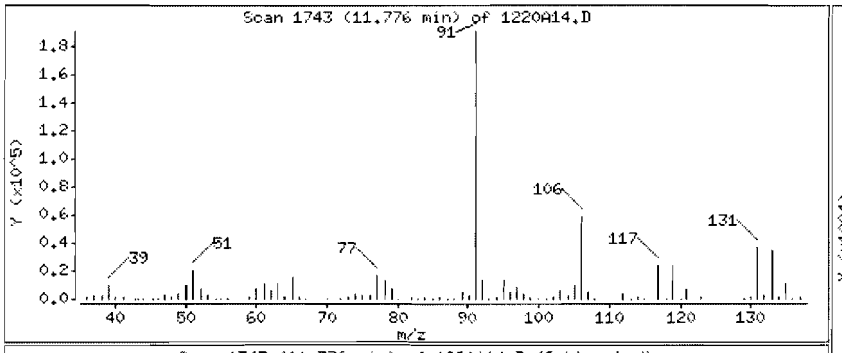
Operator: kl

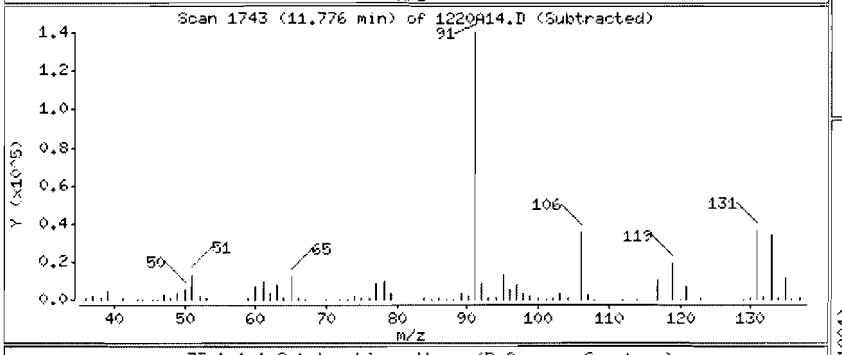
Column phase:

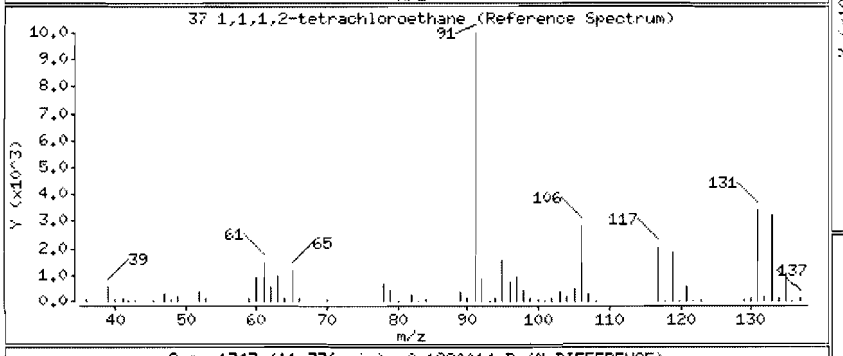
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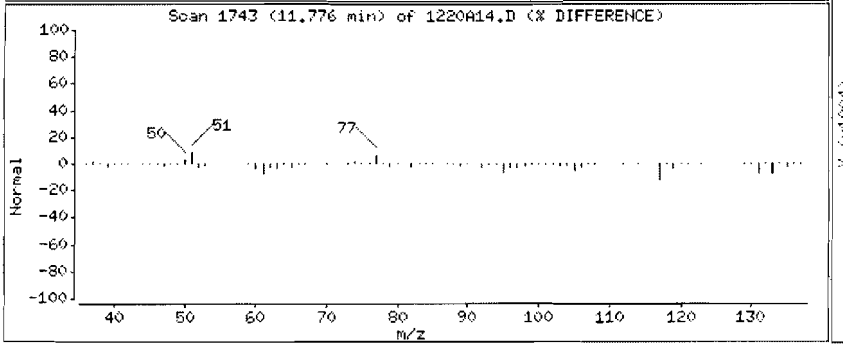
37 1,1,1,2-tetrachloroethane

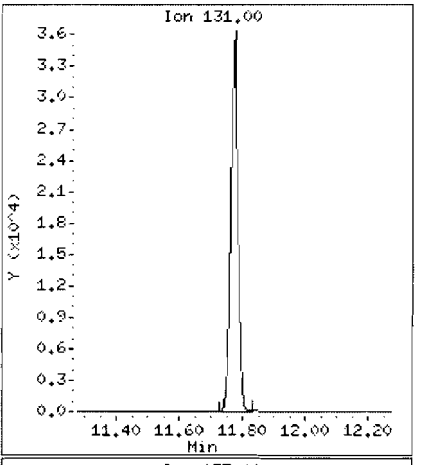
Concentration: 112.10 ngs

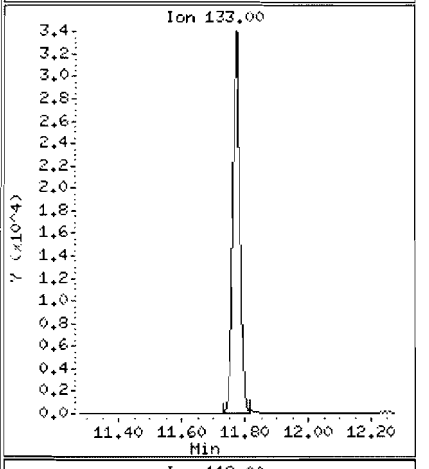


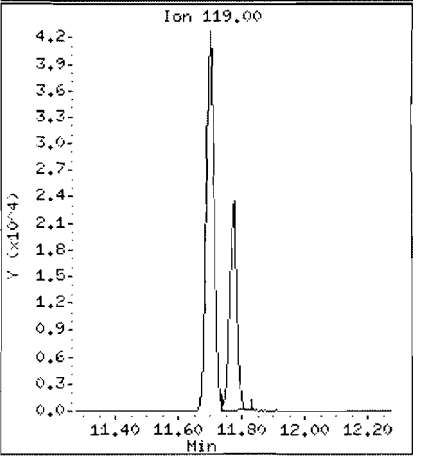












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31.25,,b

Purge Volume: 25.0

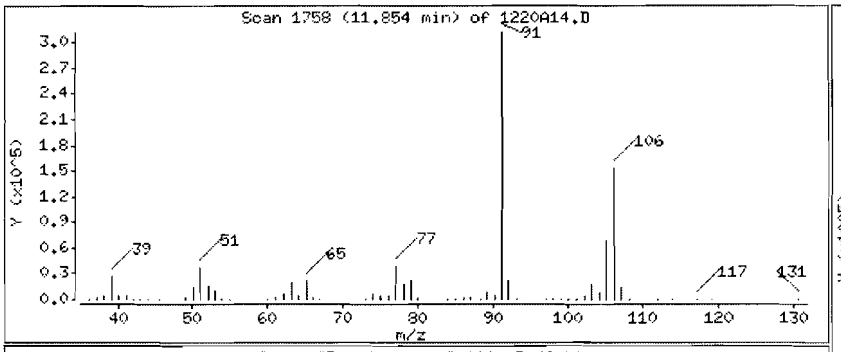
Operator: kl

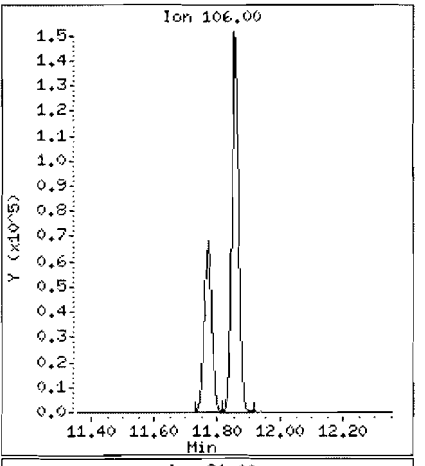
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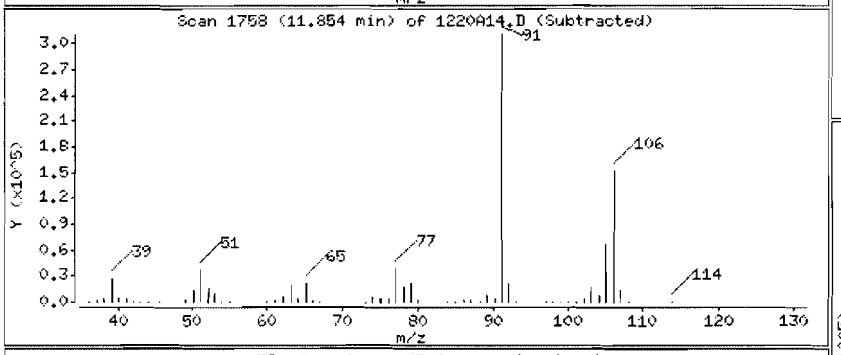
Column diameter: 0.18

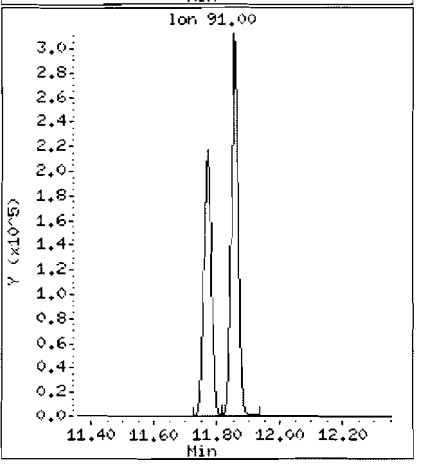
38 p/m-xylenes

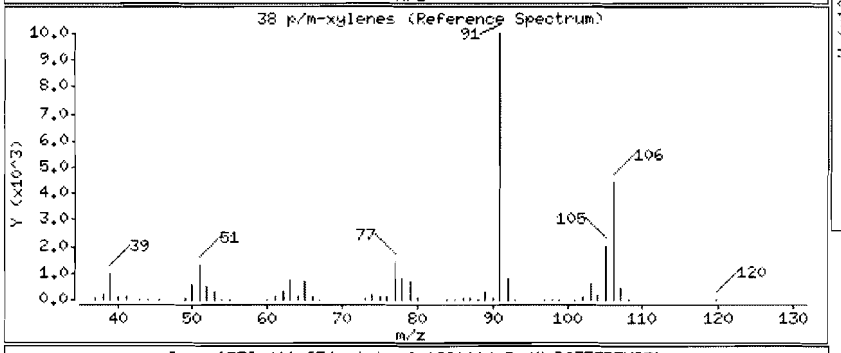
Concentration: 211.26 ngs

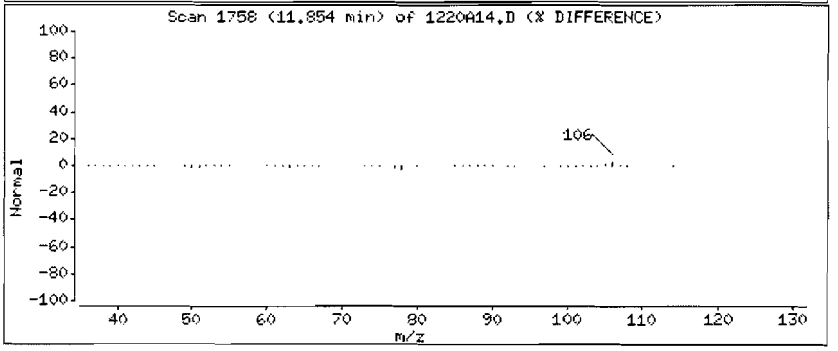












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

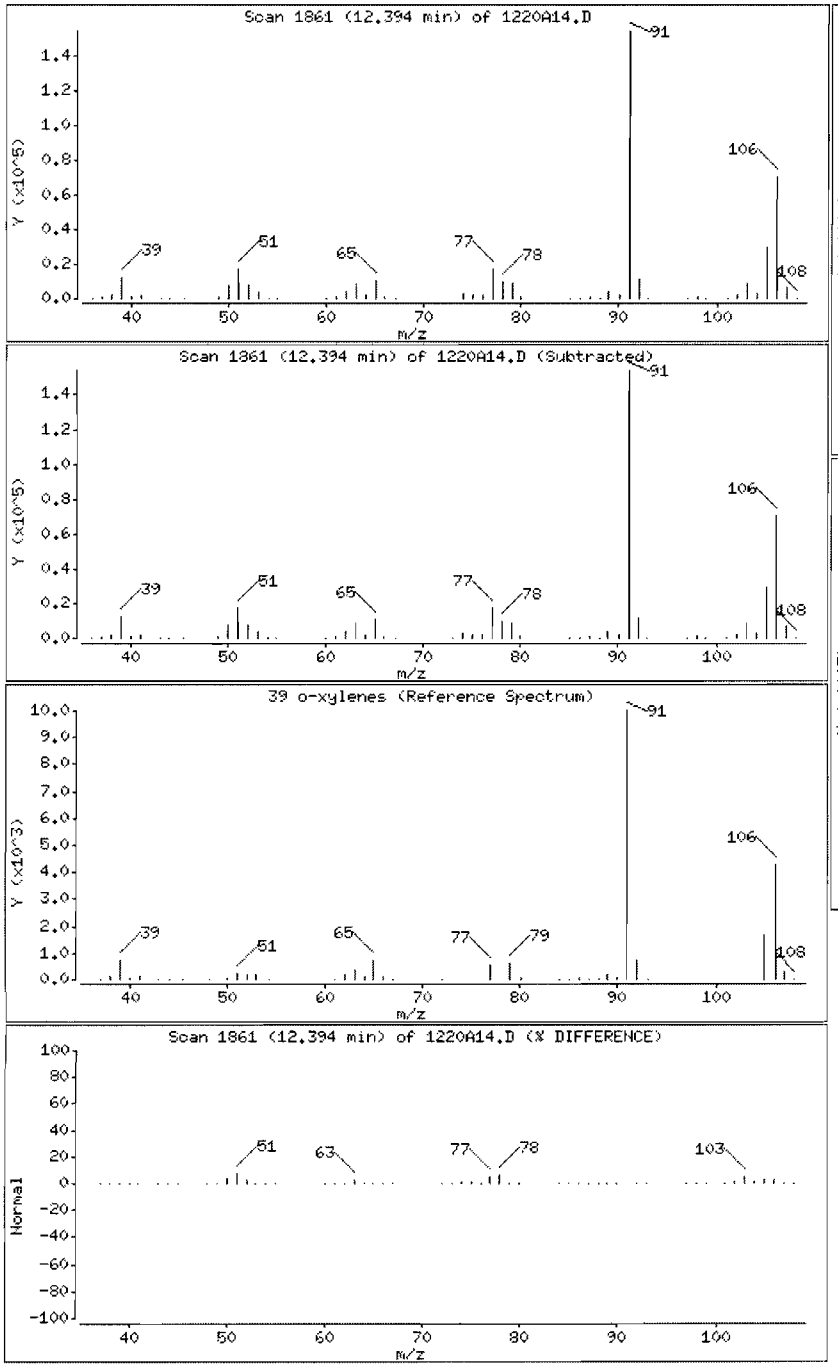
Operator: kl

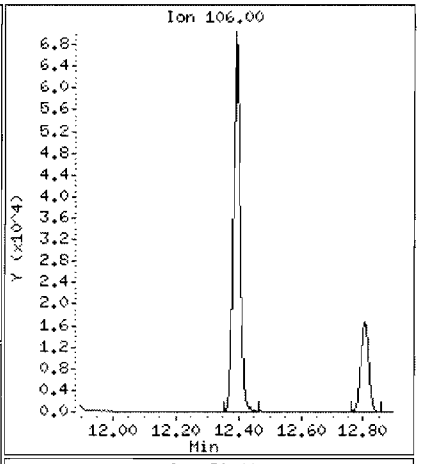
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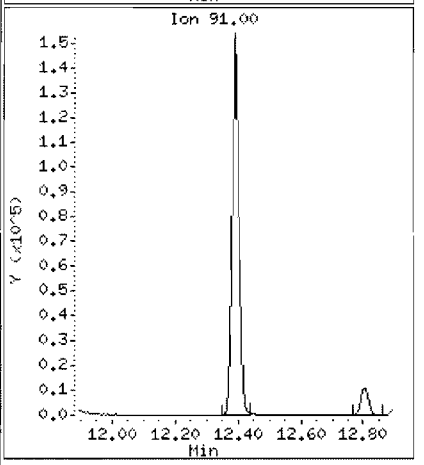
Column diameter: 0.18

39 o-xylenes

Concentration: 99.58 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

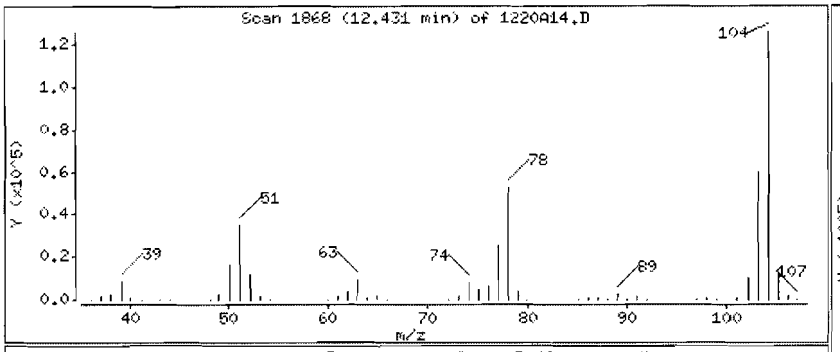
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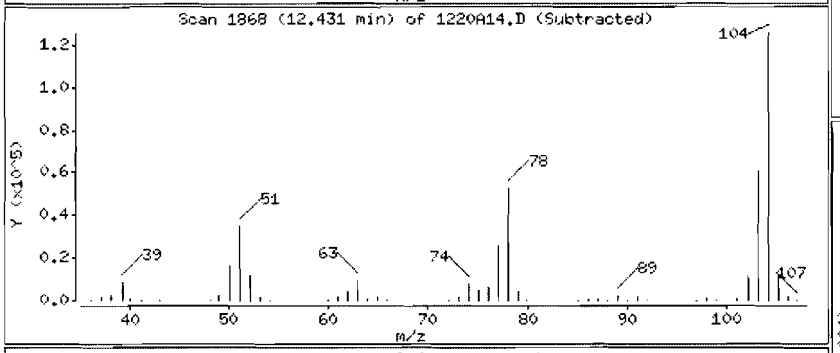
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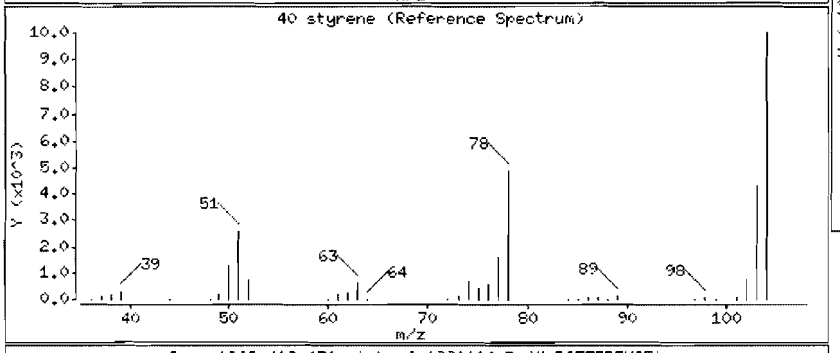
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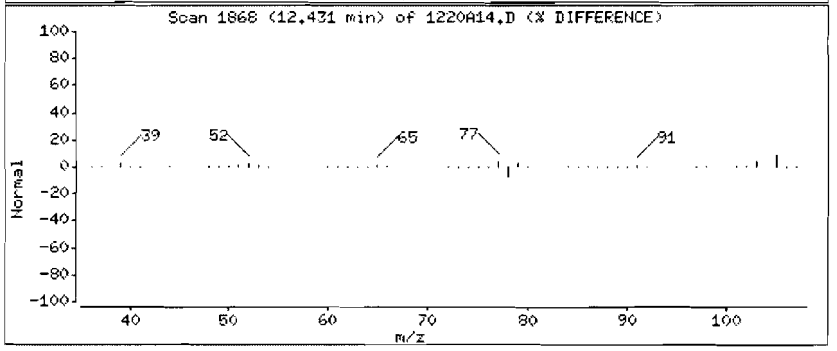
40 styrene

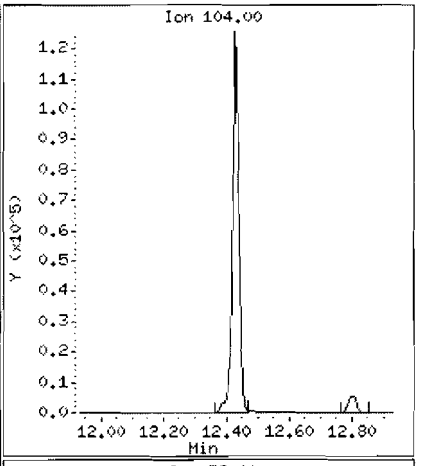
Concentration: 107.51 ngs

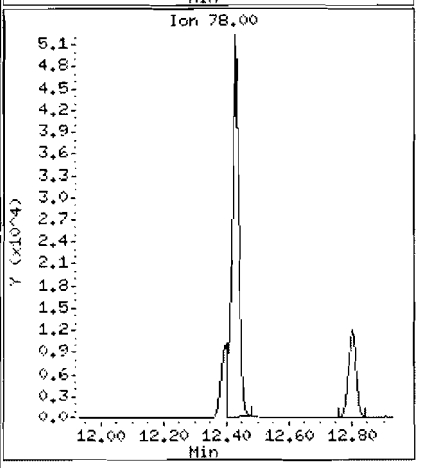












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

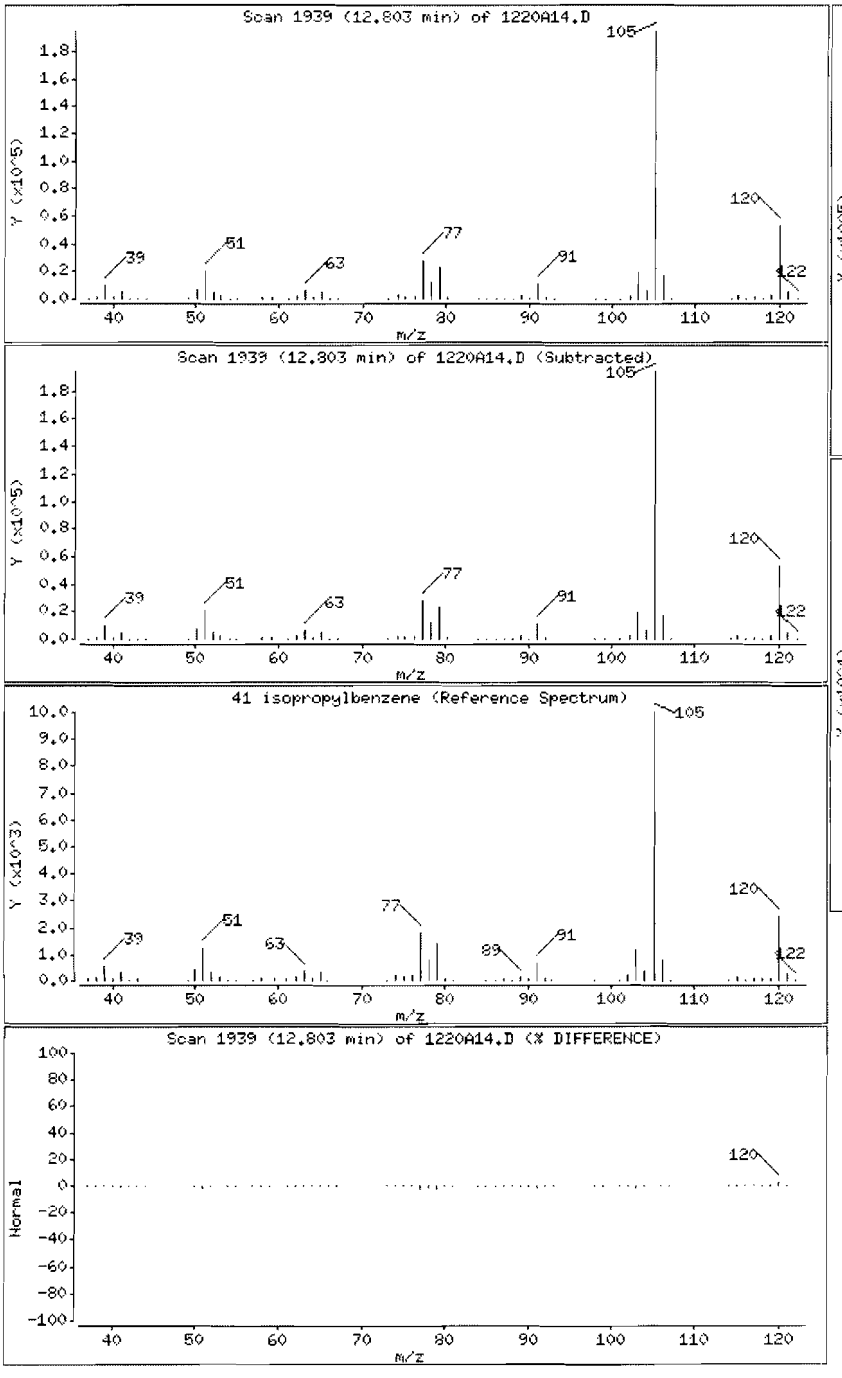
Operator: kl

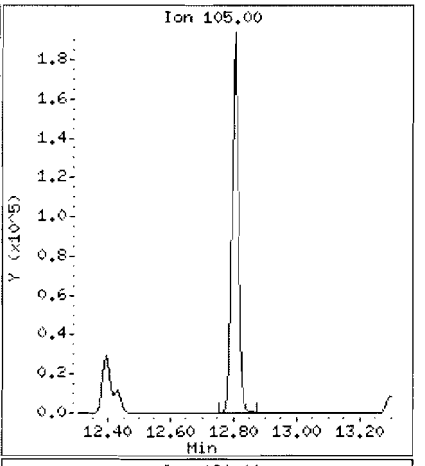
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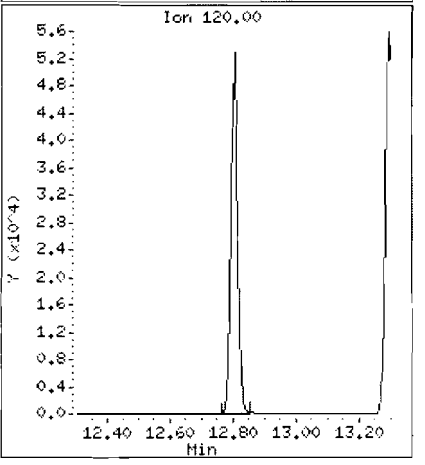
Column diameter: 0.18

41 isopropylbenzene

Concentration: 102.59 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31.25,,b

Purge Volume: 25.0

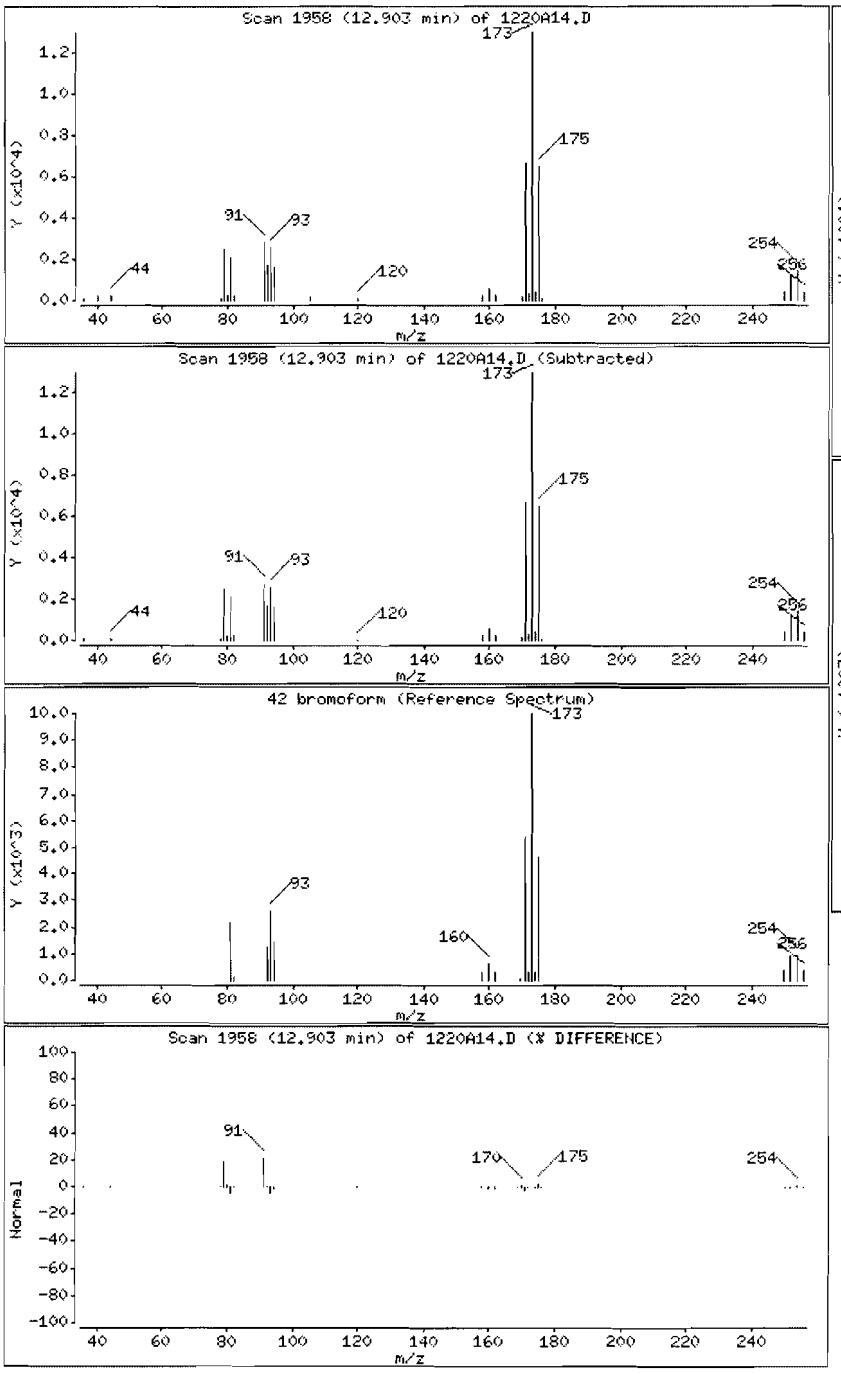
Operator: kl

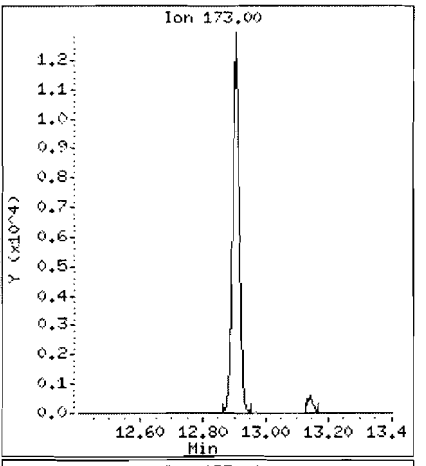
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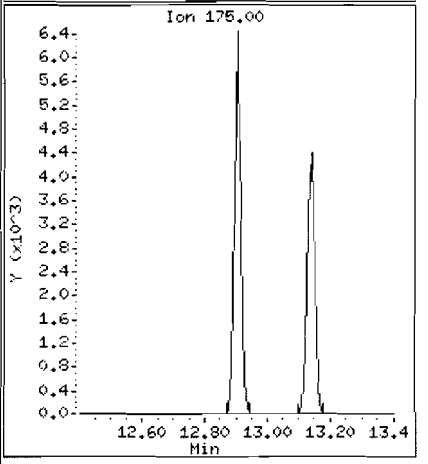
Column diameter: 0.18

42 bromoform

Concentration: 103.26 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

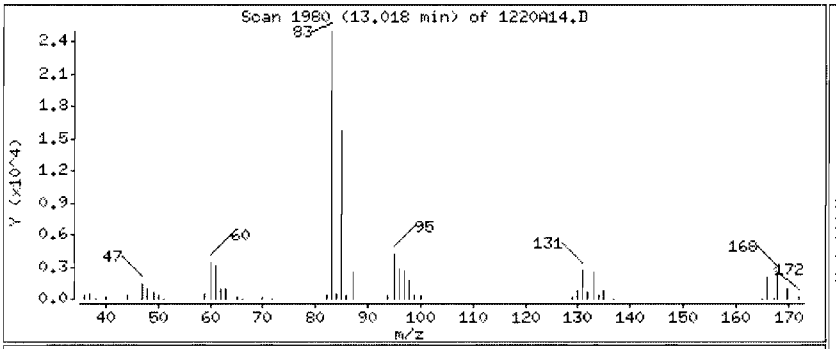
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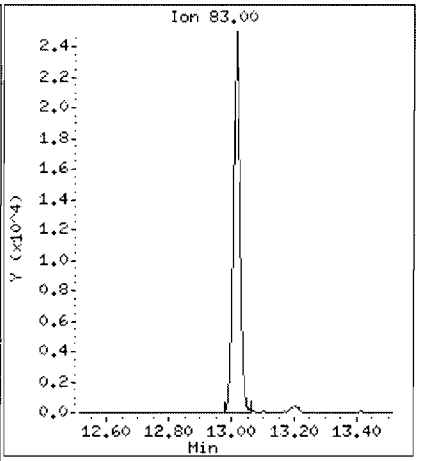
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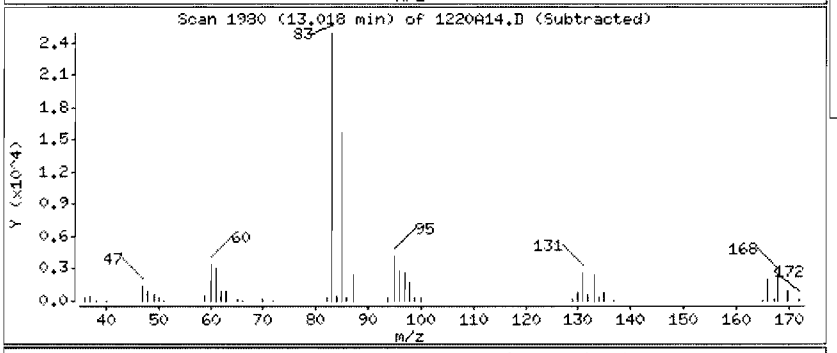
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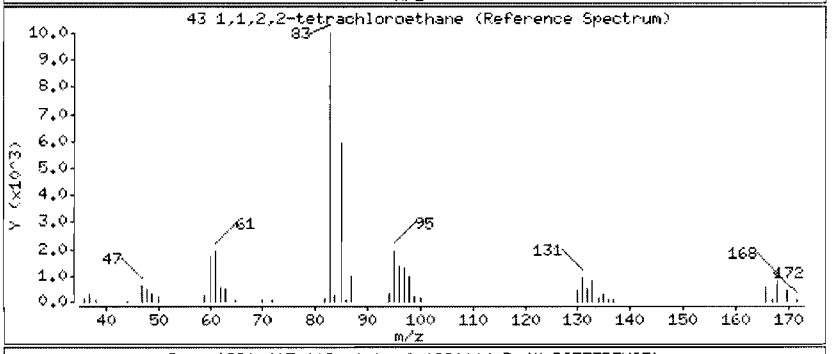
43 1,1,2,2-tetrachloroethane

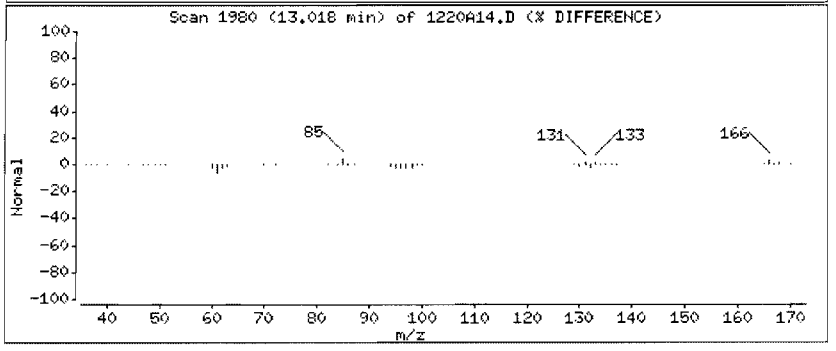
Concentration: 113.51 ngs











Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

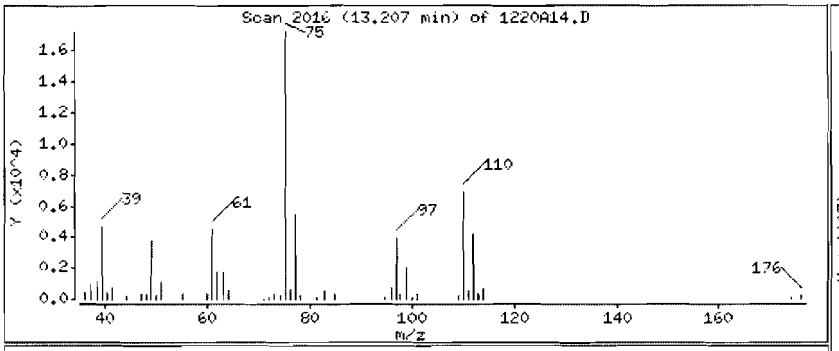
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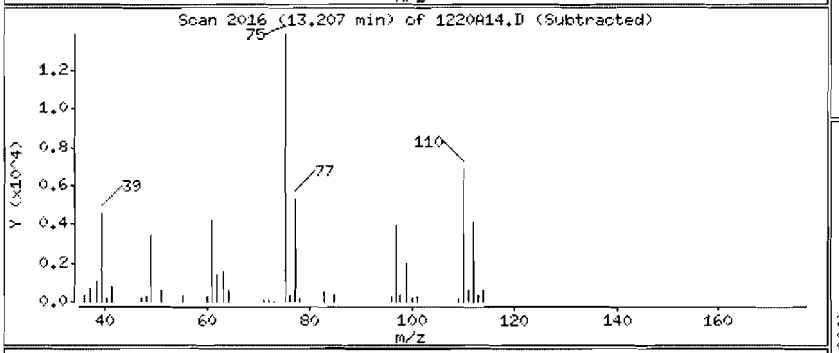
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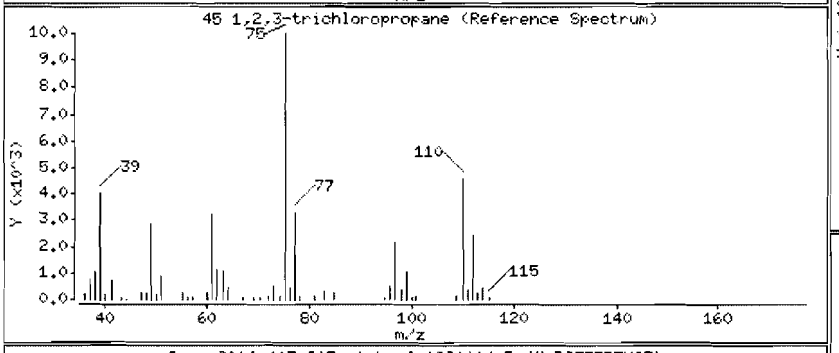
Column diameter: 0.18

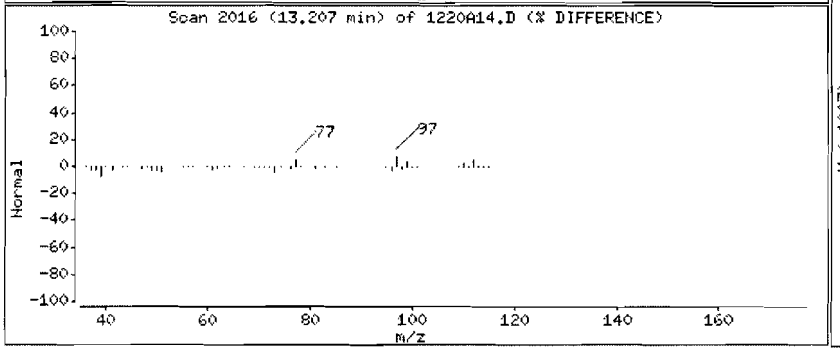
45 1,2,3-trichloropropane

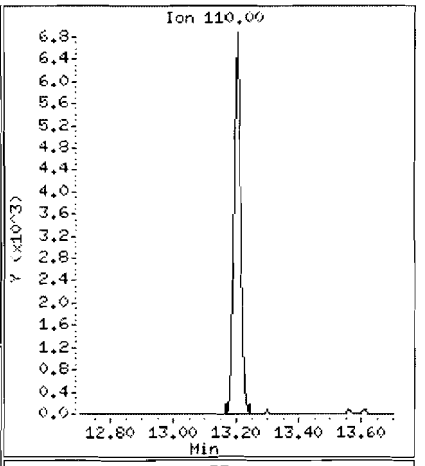
Concentration: 111.13 ngs

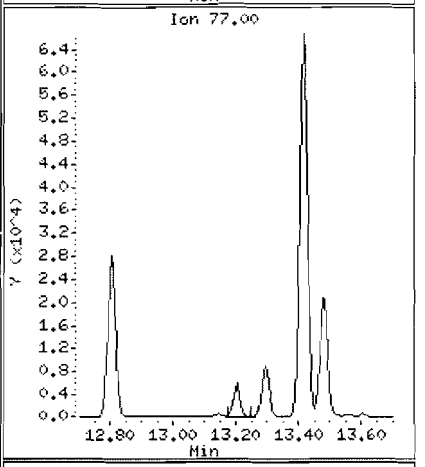


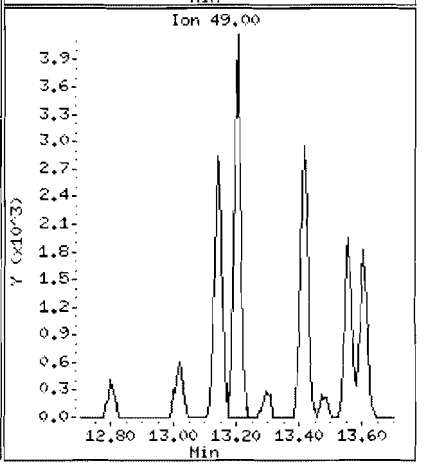












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

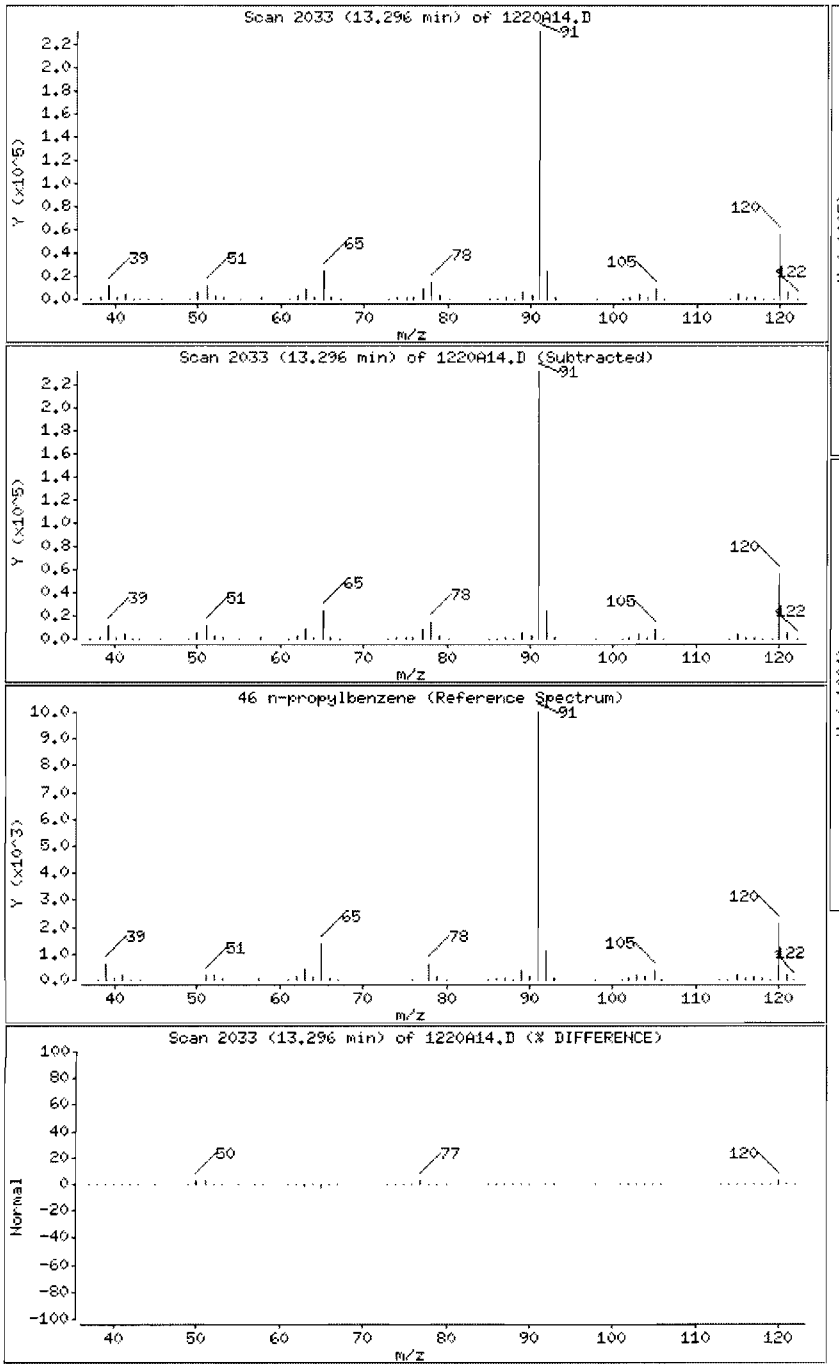
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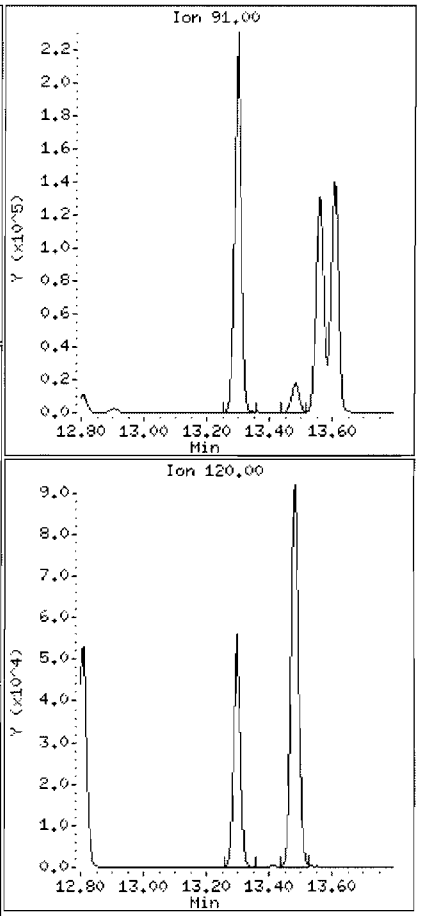
Column phase:

Column diameter: 0.18

46 n-propylbenzene

Concentration: 99.49 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31.25,,b

Purge Volume: 25.0

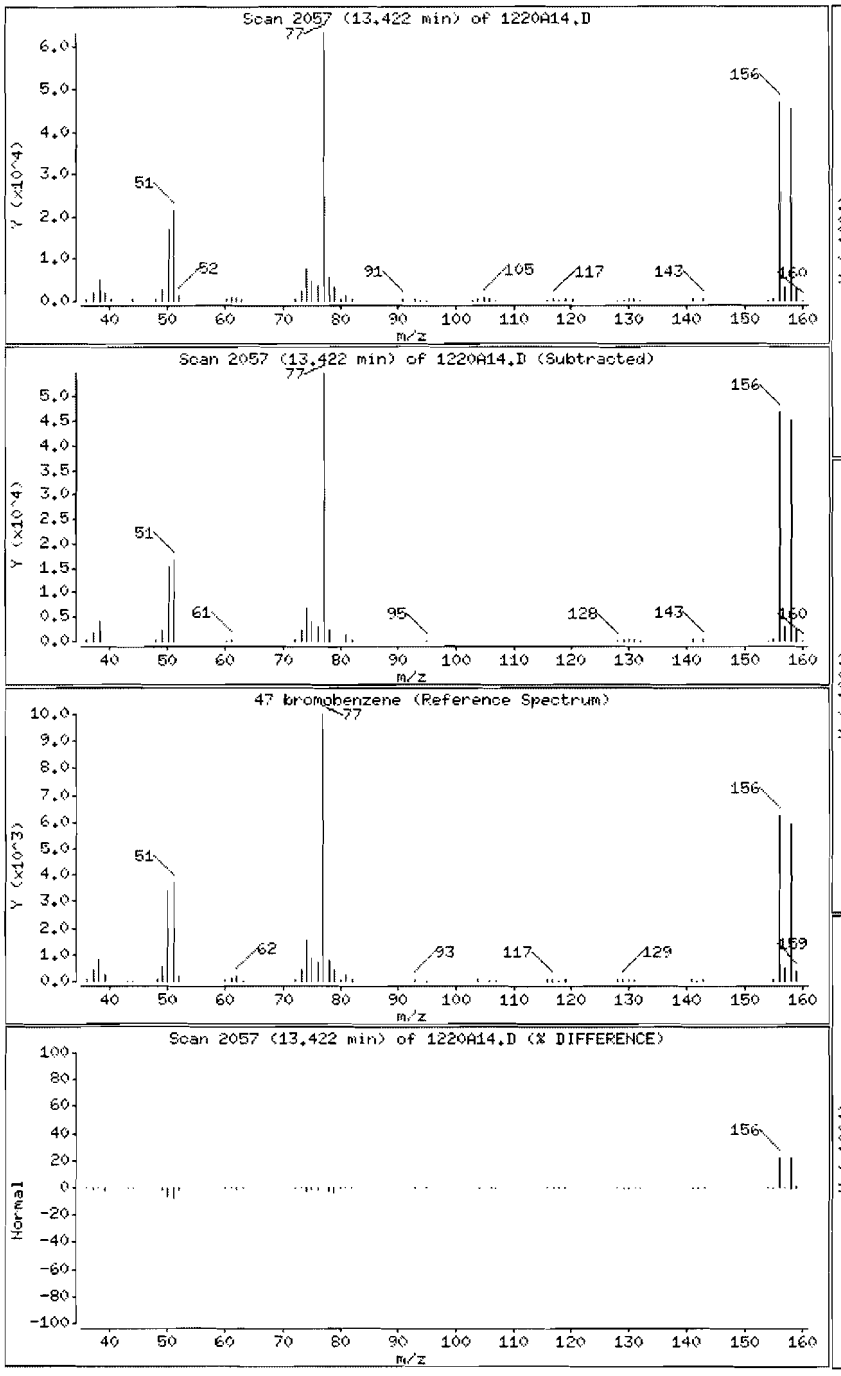
Operator: kl

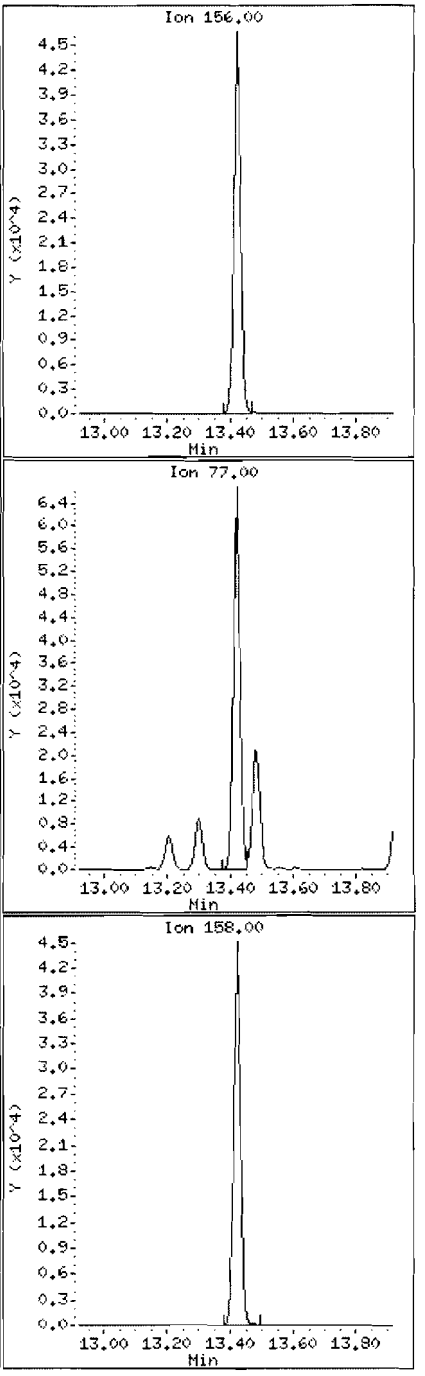
Column phase:

Column diameter: 0.18

47 bromobenzene

Concentration: 107.77 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

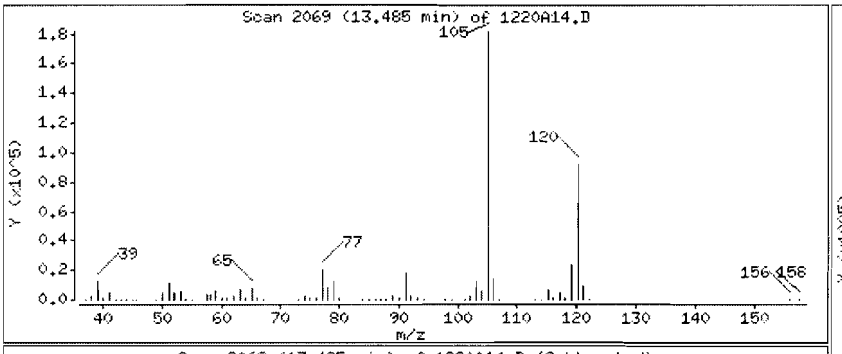
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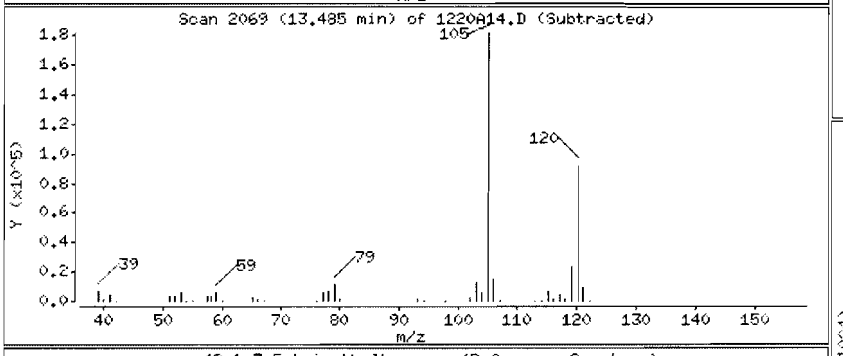
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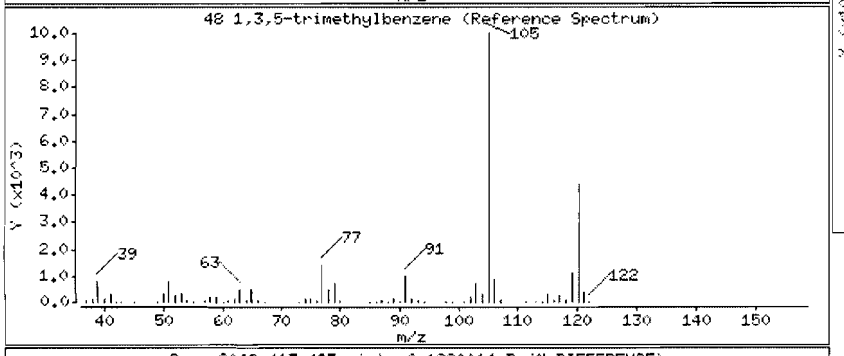
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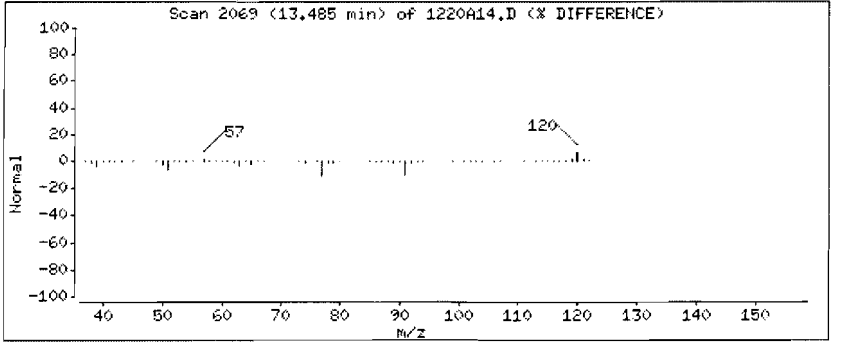
48 1,3,5-trimethylbenzene

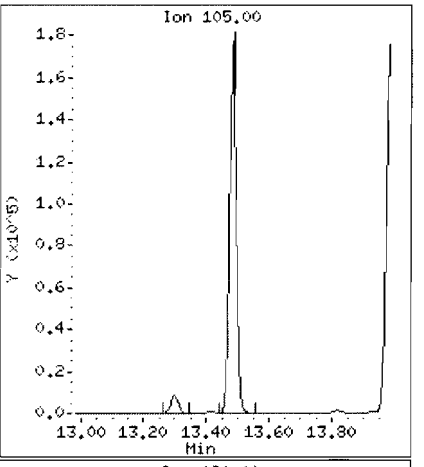
Concentration: 113.67 ngs

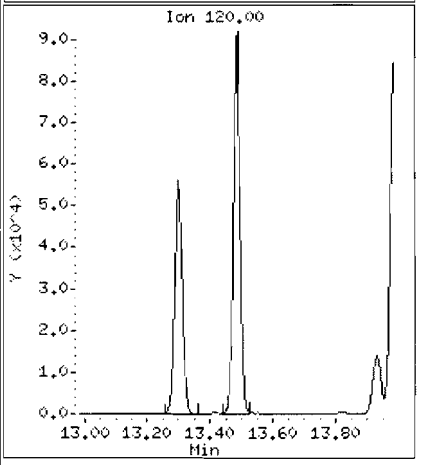












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

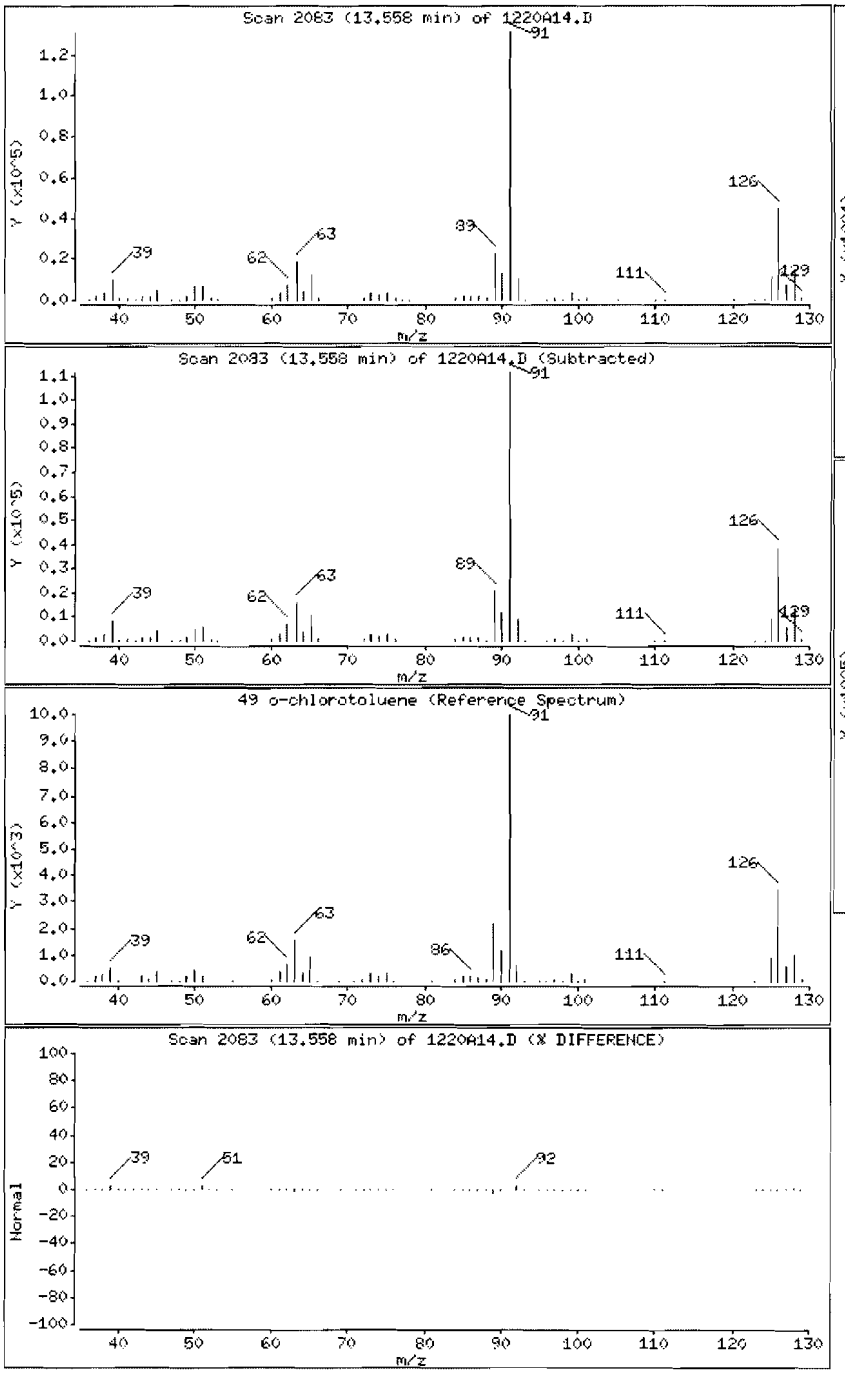
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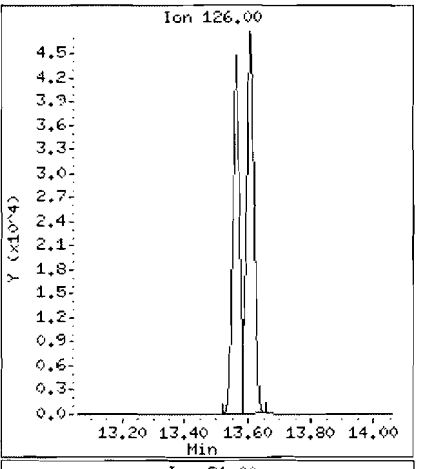
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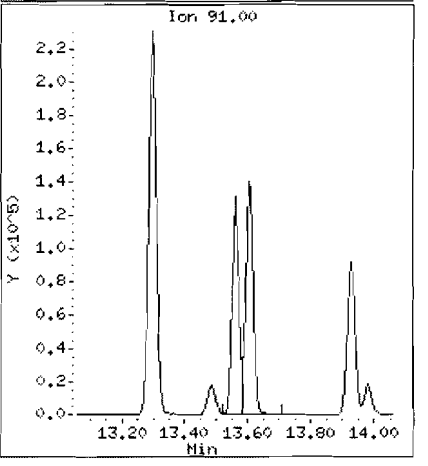
Column diameter: 0.18

49 o-chlorotoluene

Concentration: 101.12 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31.25,,b

Purge Volume: 25.0

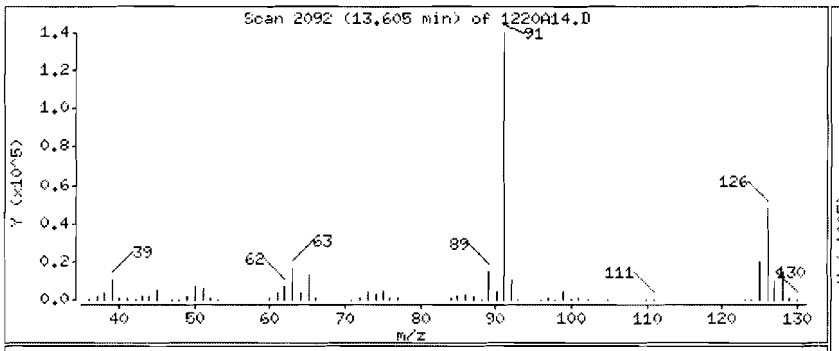
Operator: kl

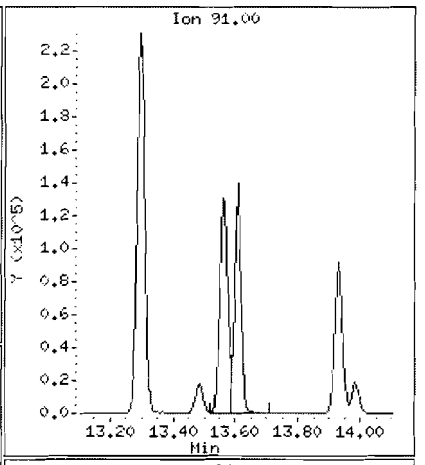
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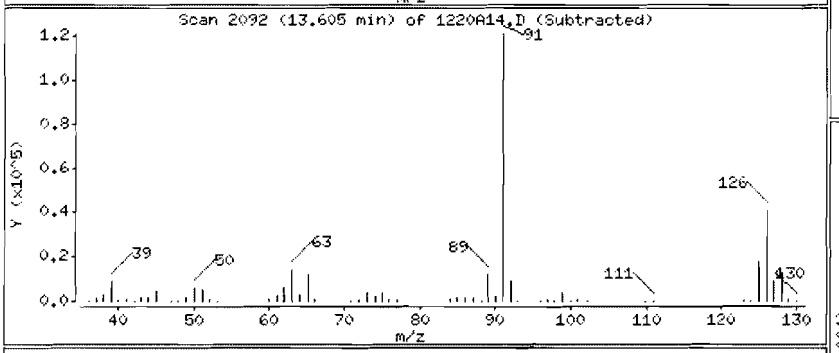
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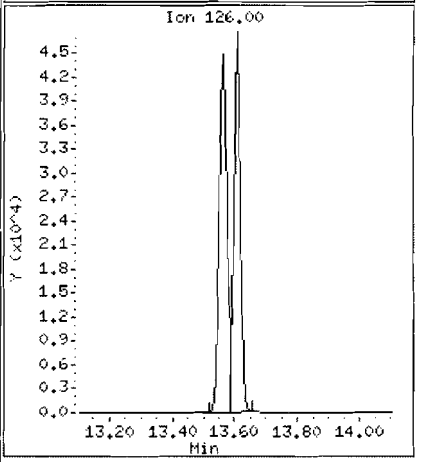
50 p-chlorotoluene

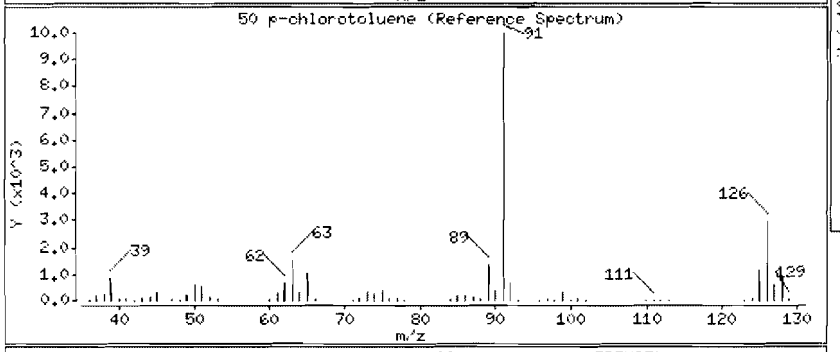
Concentration: 99.10 ngs

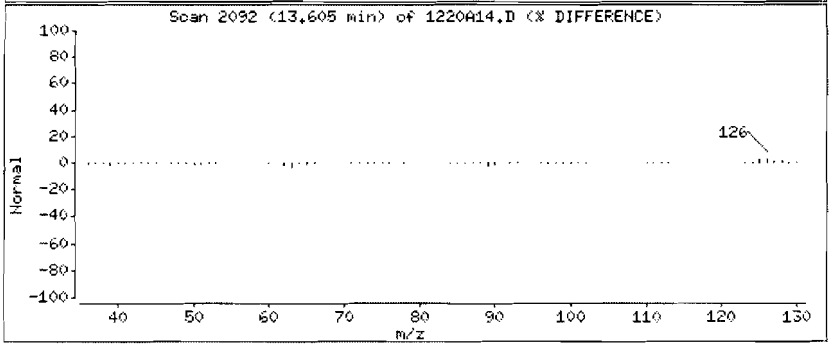












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

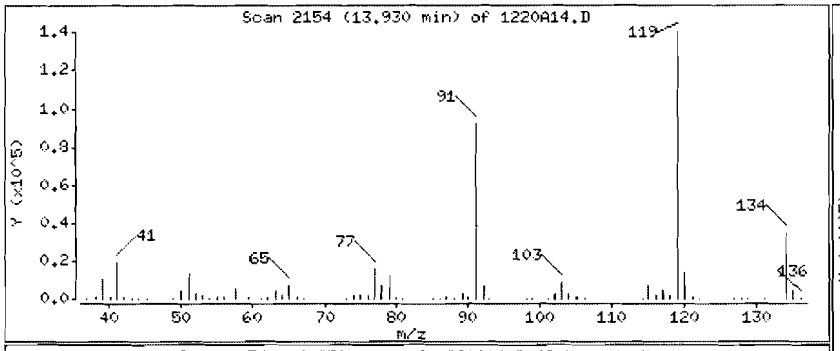
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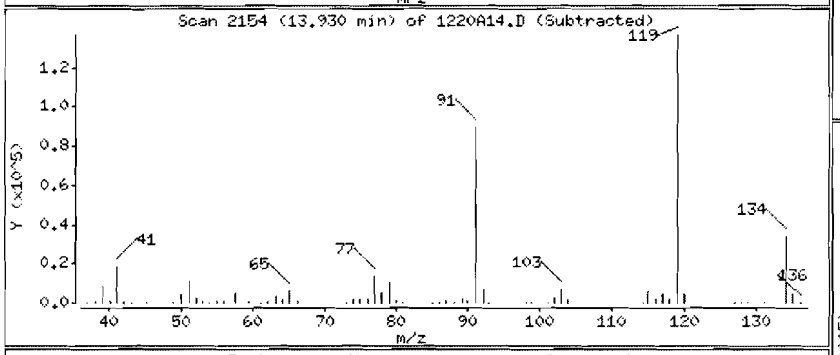
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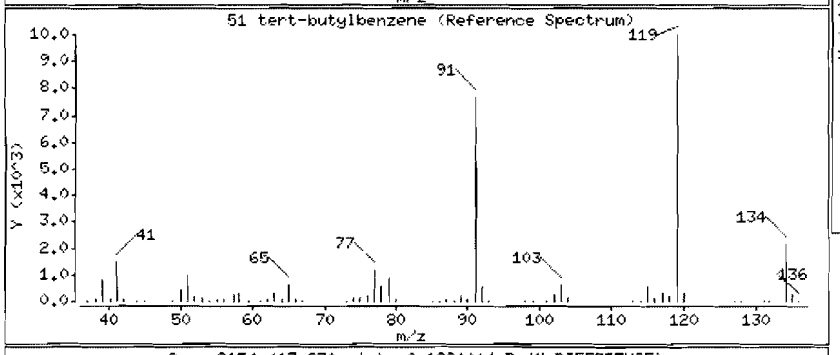
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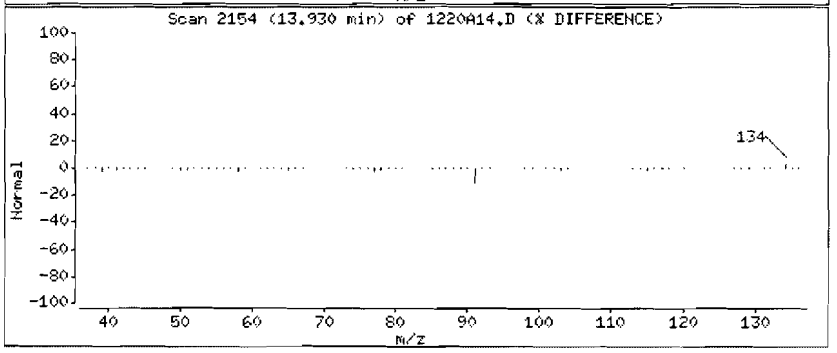
51 tert-butylbenzene

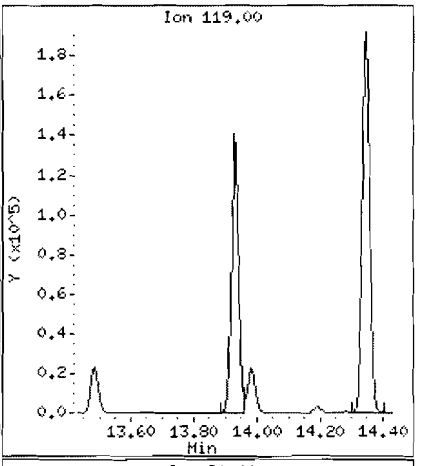
Concentration: 102.45 ngs

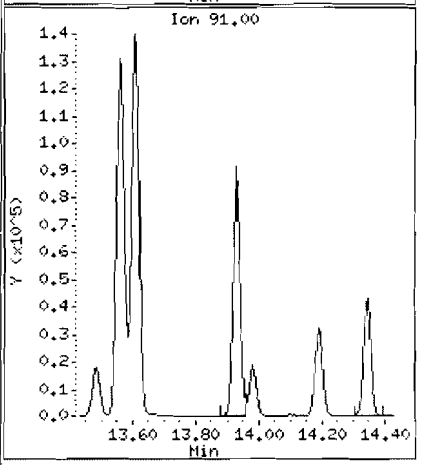












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

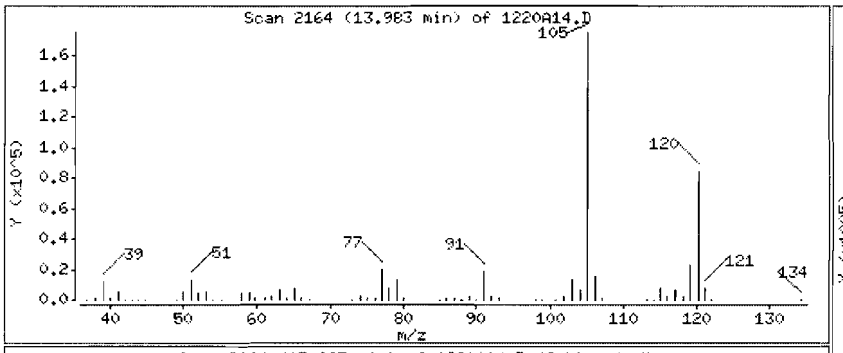
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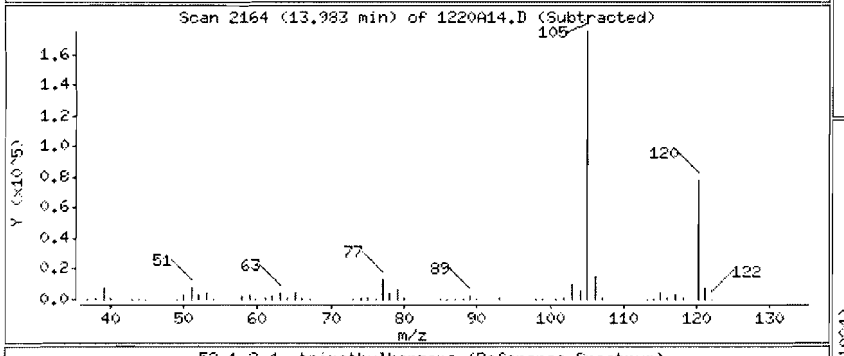
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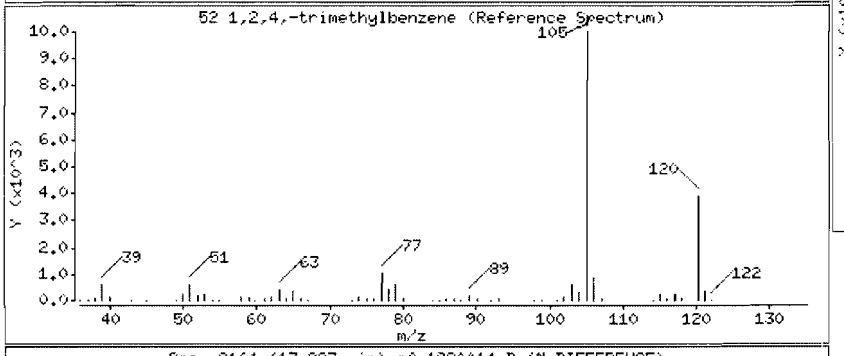
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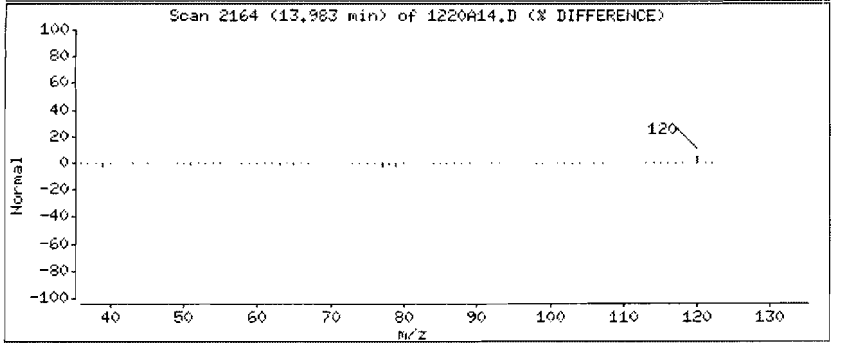
52 1,2,4,-trimethylbenzene

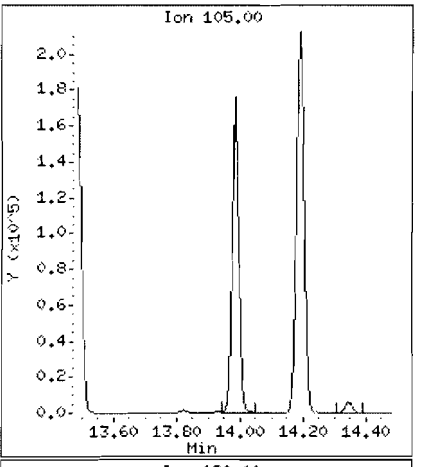
Concentration: 108.30 ngs

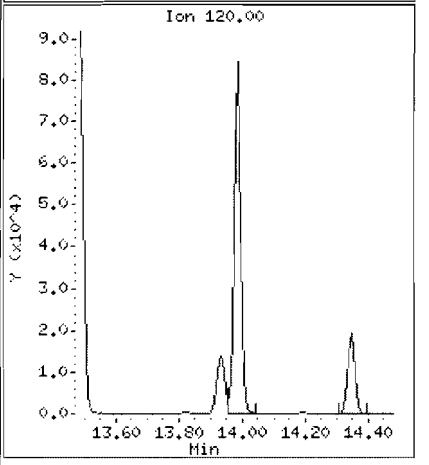












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

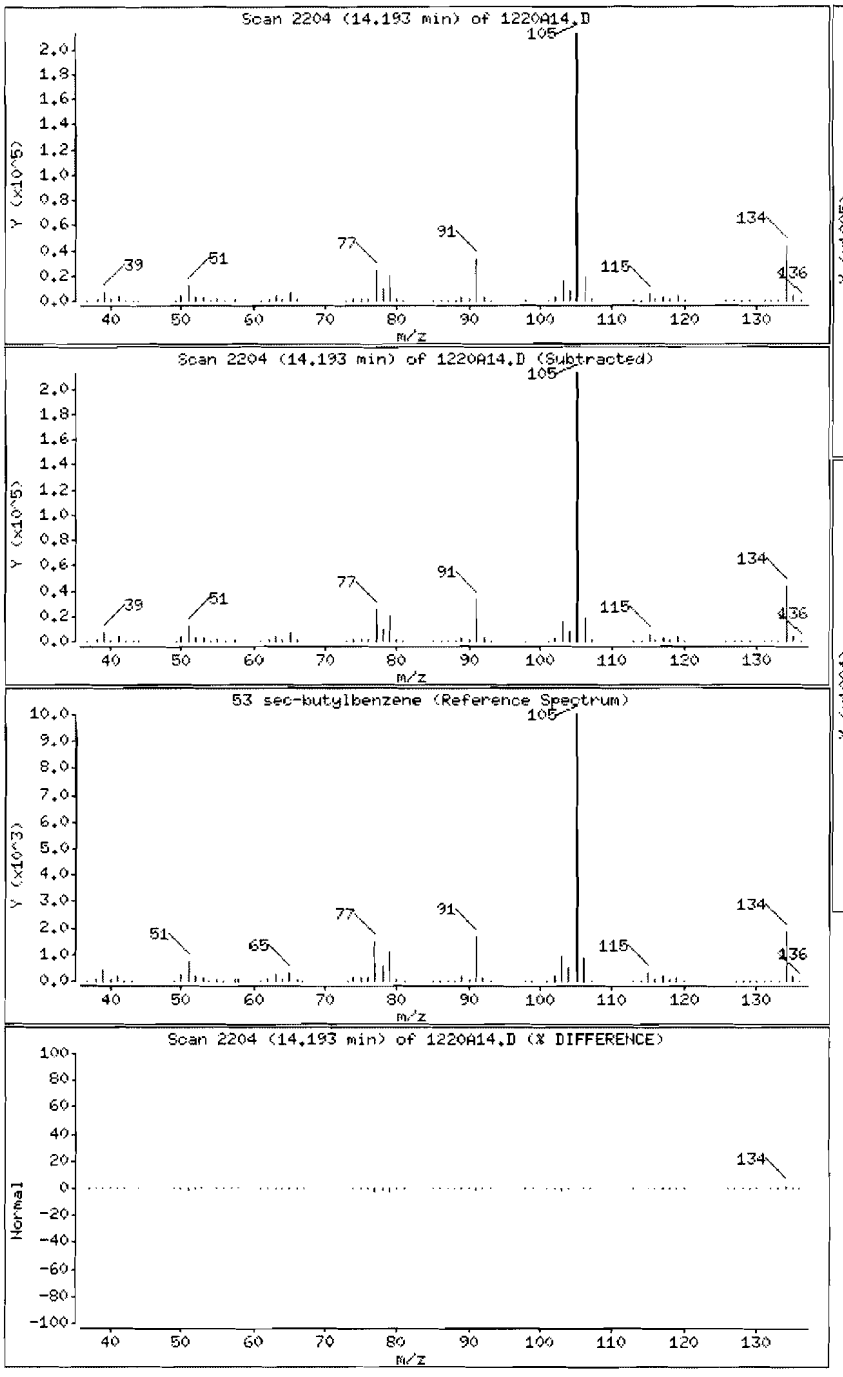
Operator: kl

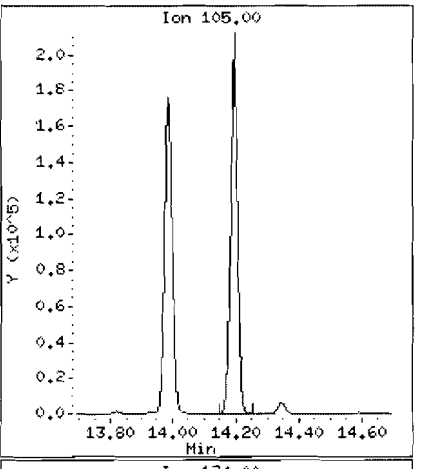
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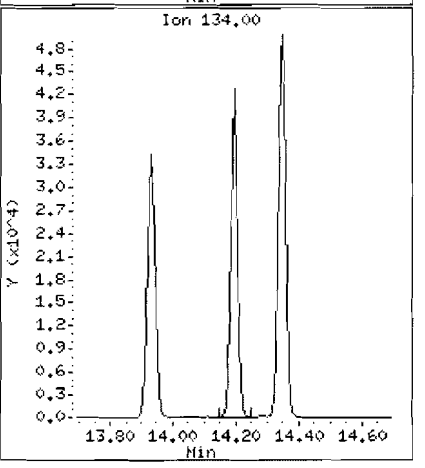
Column diameter: 0.18

53 sec-butylbenzene

Concentration: 102.28 ngs







Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

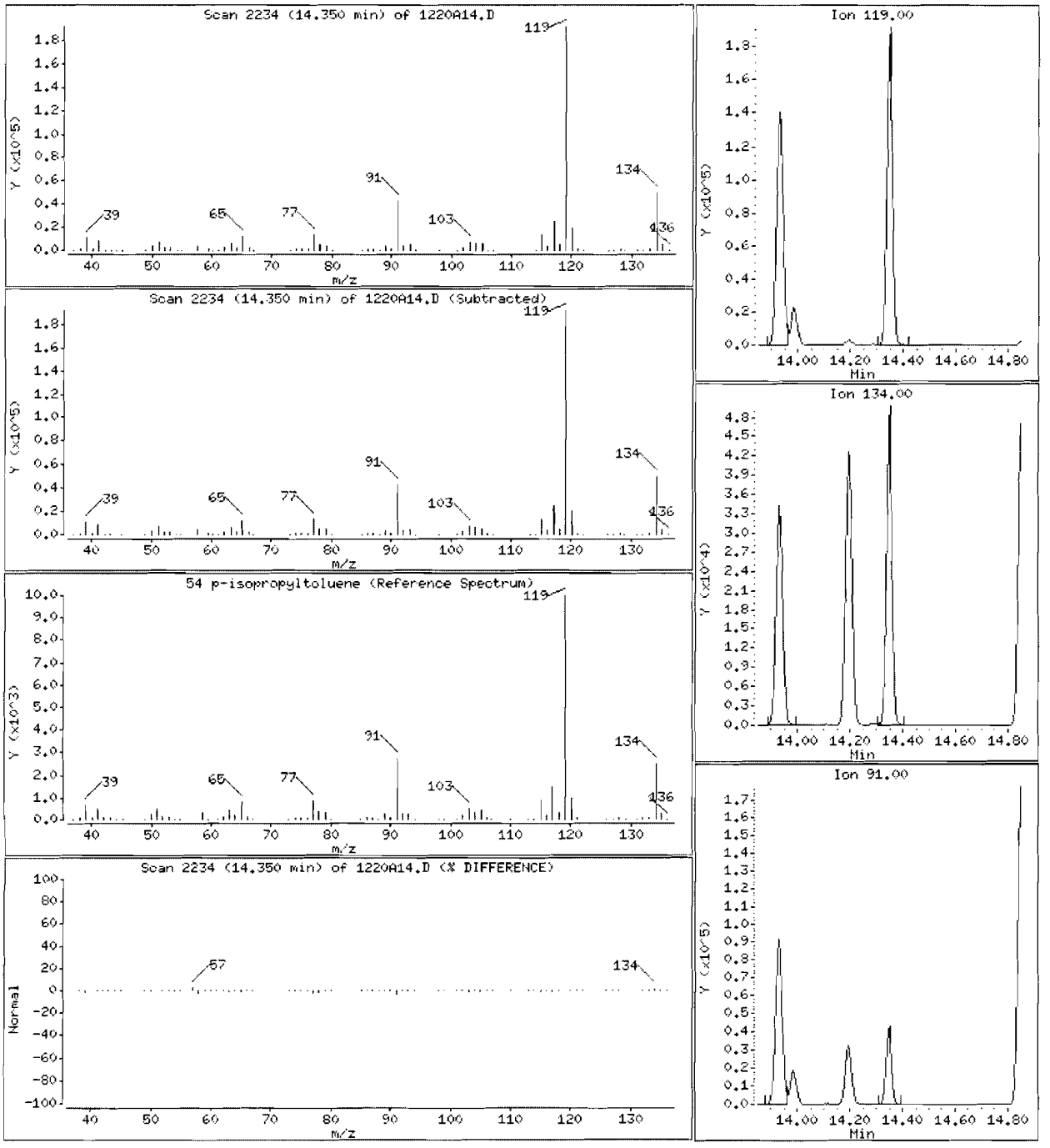
Operator: kl

Column phase:

Column diameter: 0.18

54 p-isopropyltoluene

Concentration: 101.61 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

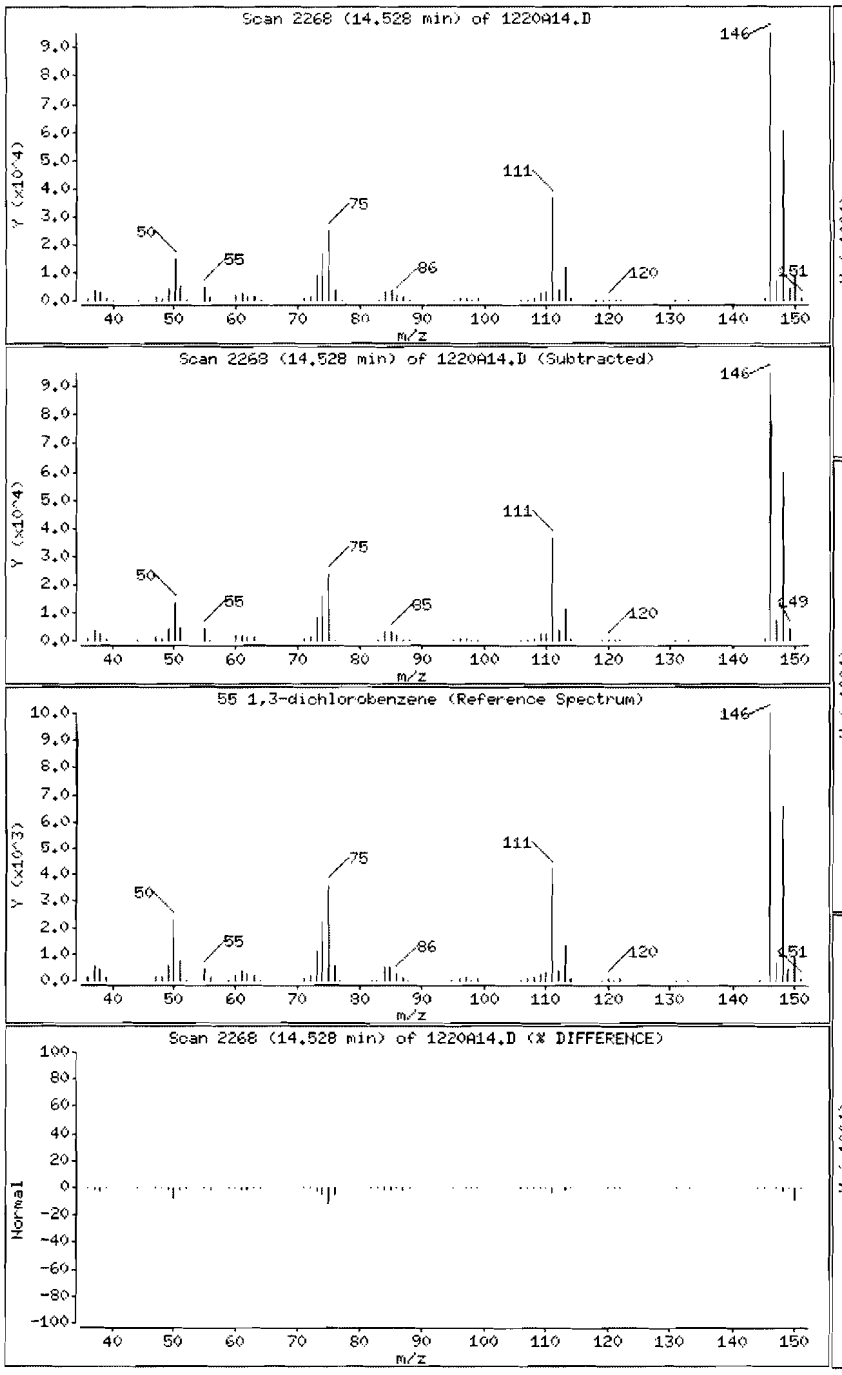
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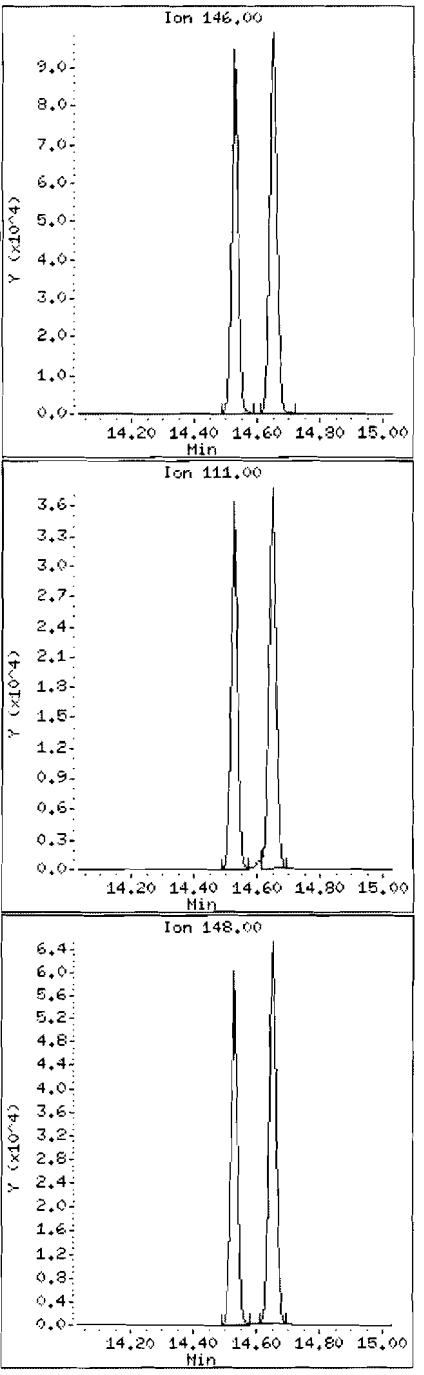
Column phase:

Column diameter: 0.18

55 1,3-dichlorobenzene

Concentration: 97.69 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

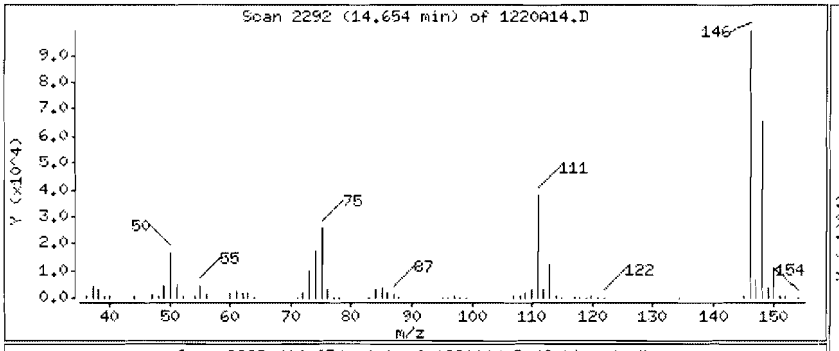
Operator: kl

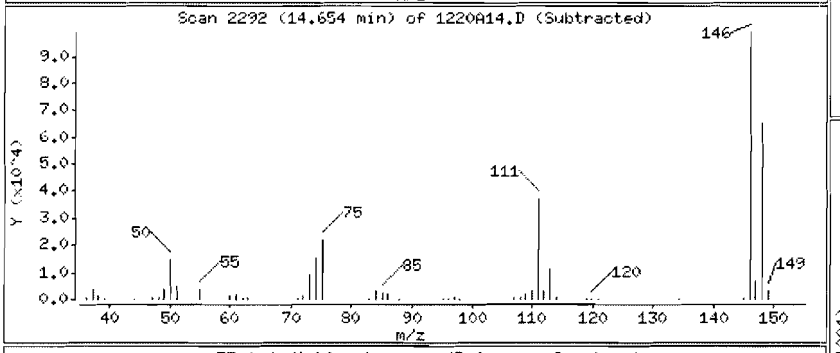
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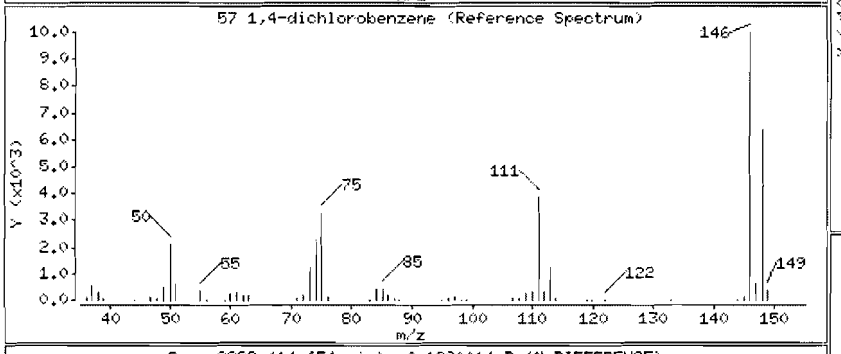
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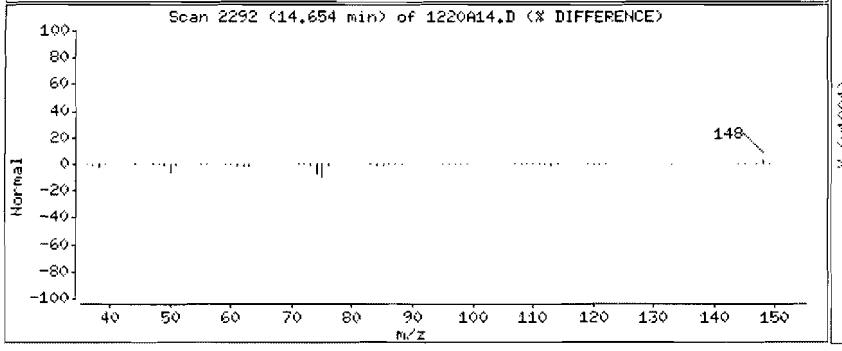
57 1,4-dichlorobenzene

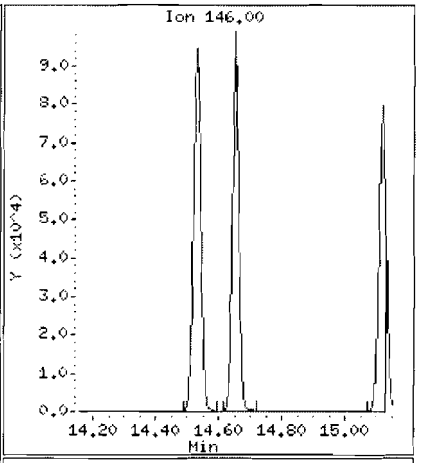
Concentration: 104.18 ngs

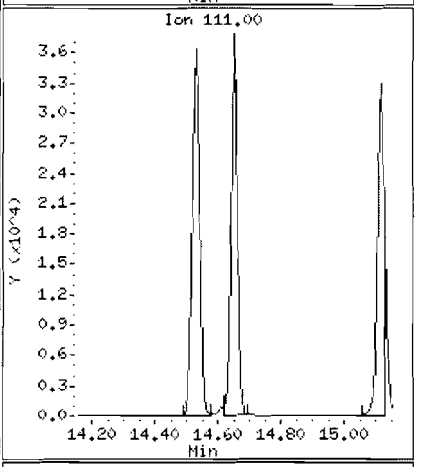


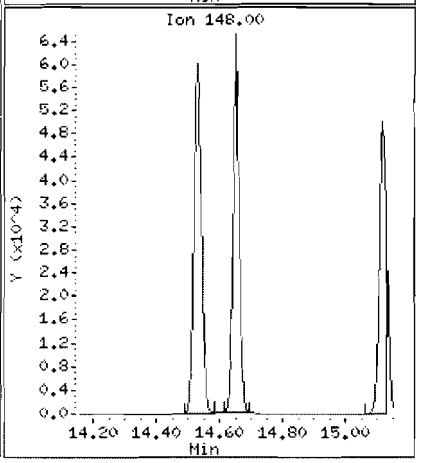












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

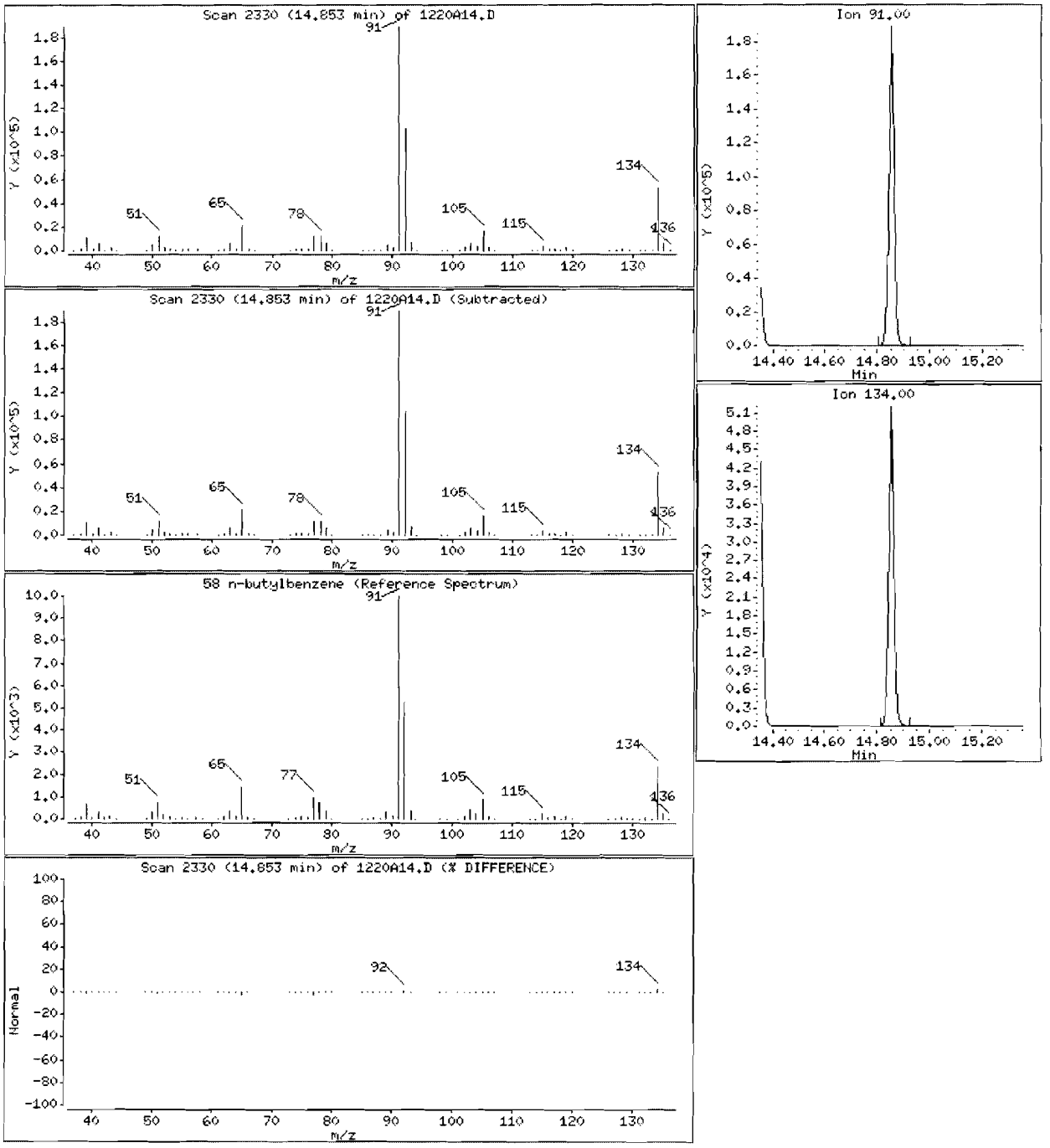
Operator: kl

Column phase:

Column diameter: 0.18

58 n-butylbenzene

Concentration: 106.00 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

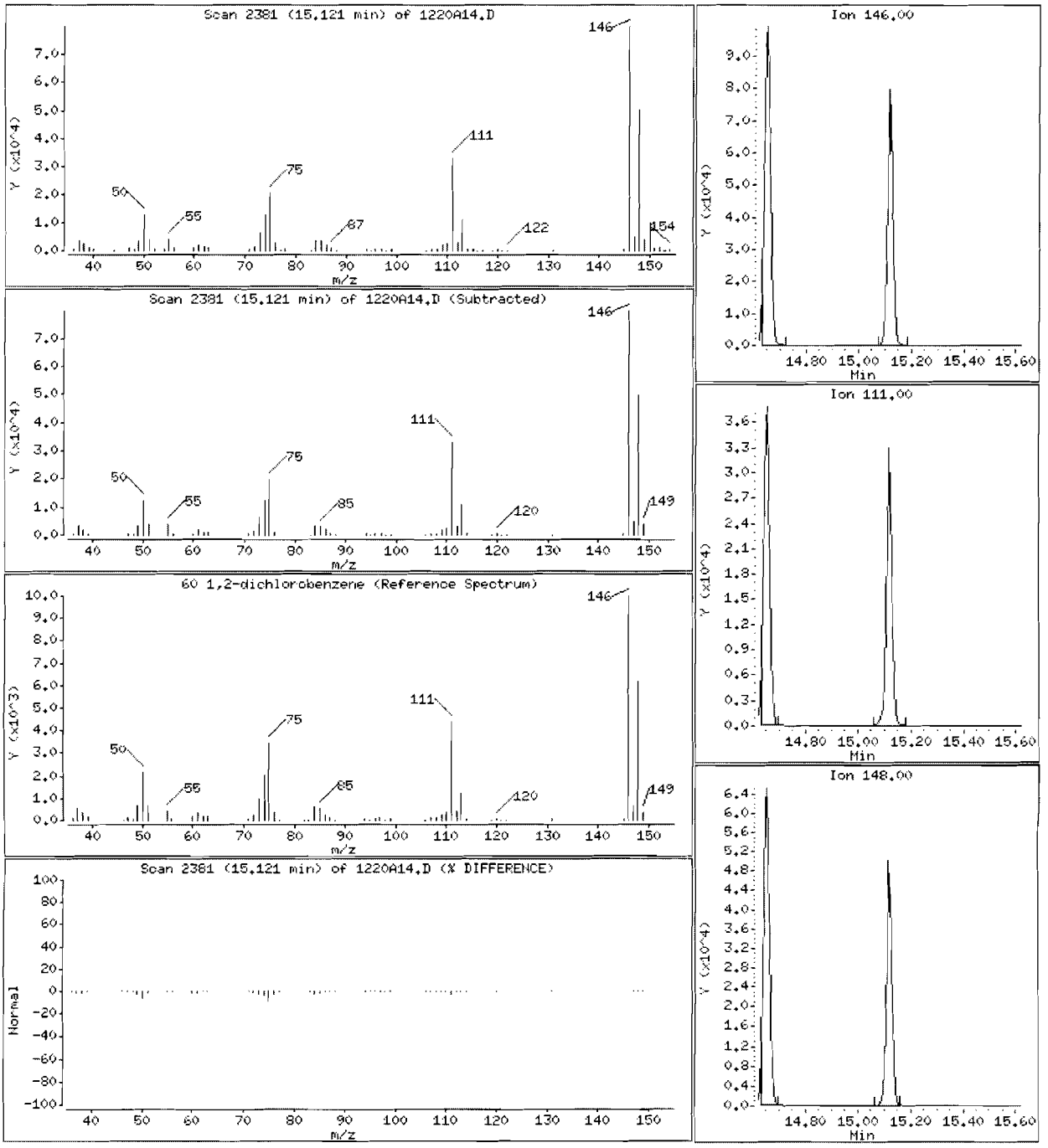
Operator: kl

Column phase:

Column diameter: 0.18

60 1,2-dichlorobenzene

Concentration: 96.12 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

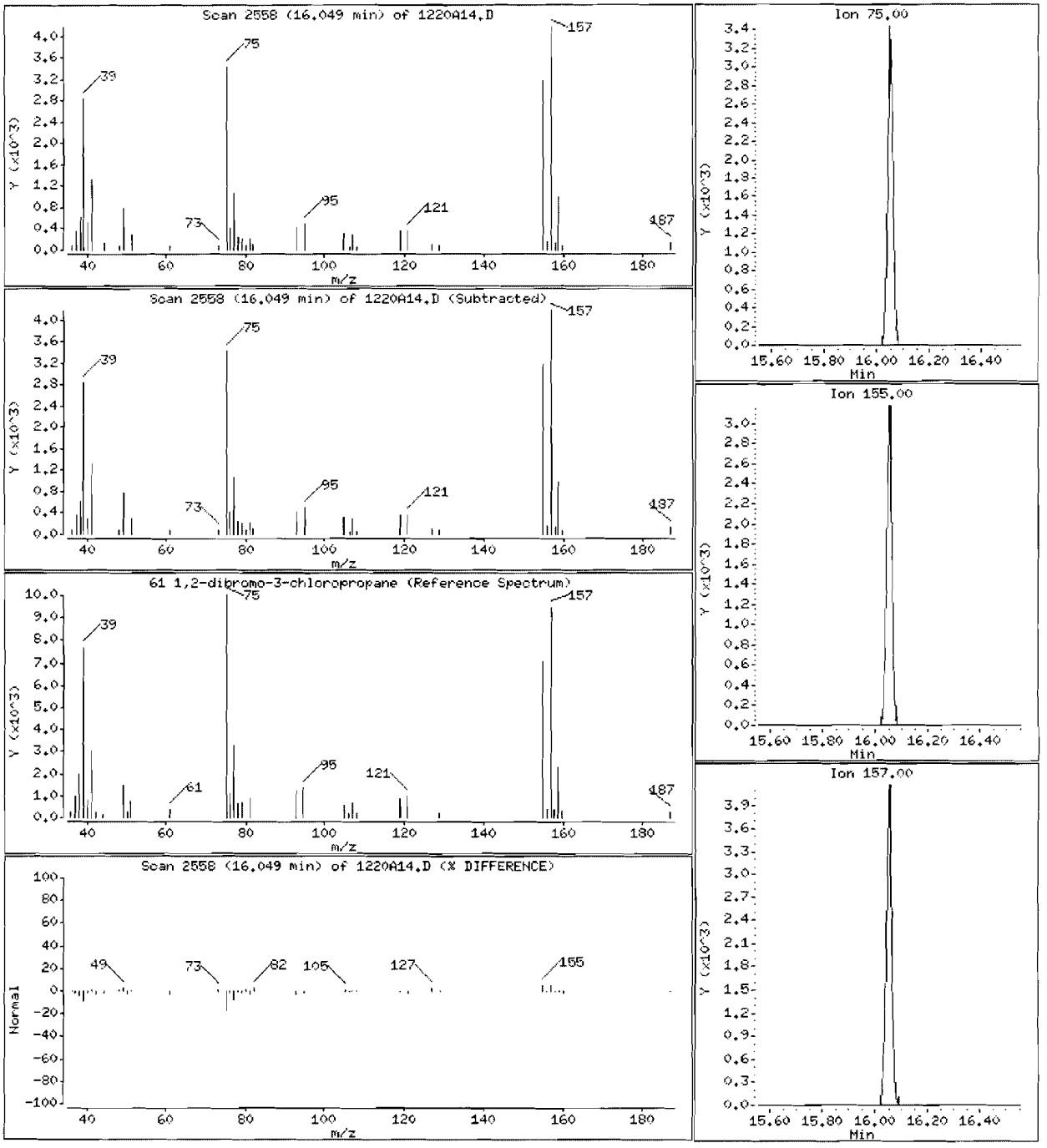
Operator: kl

Column phase:

Column diameter: 0.18

61 1,2-dibromo-3-chloropropane

Concentration: 99.03 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

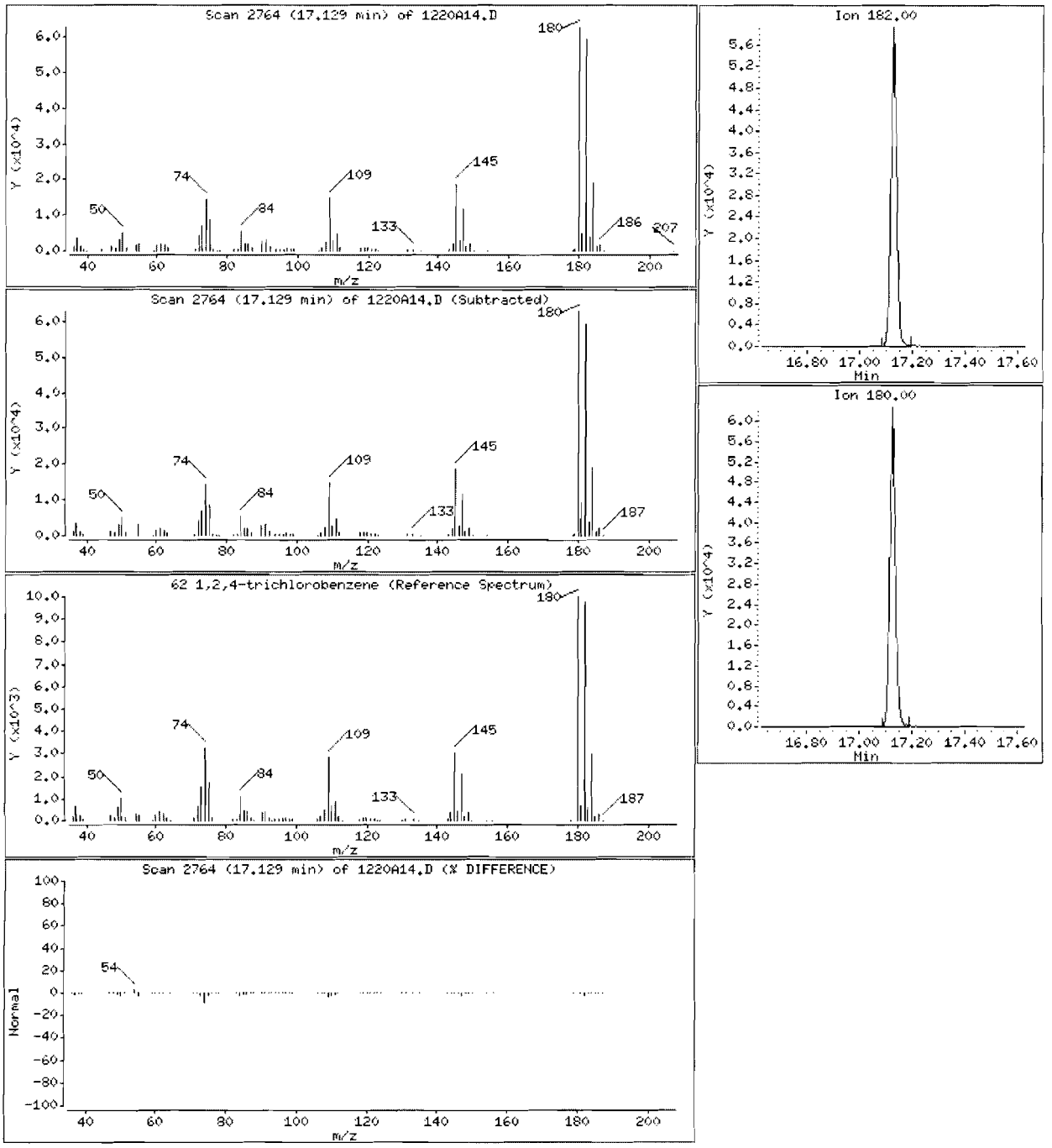
Operator: kl

Column phase:

Column diameter: 0.18

62 1,2,4-trichlorobenzene

Concentration: 100.06 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

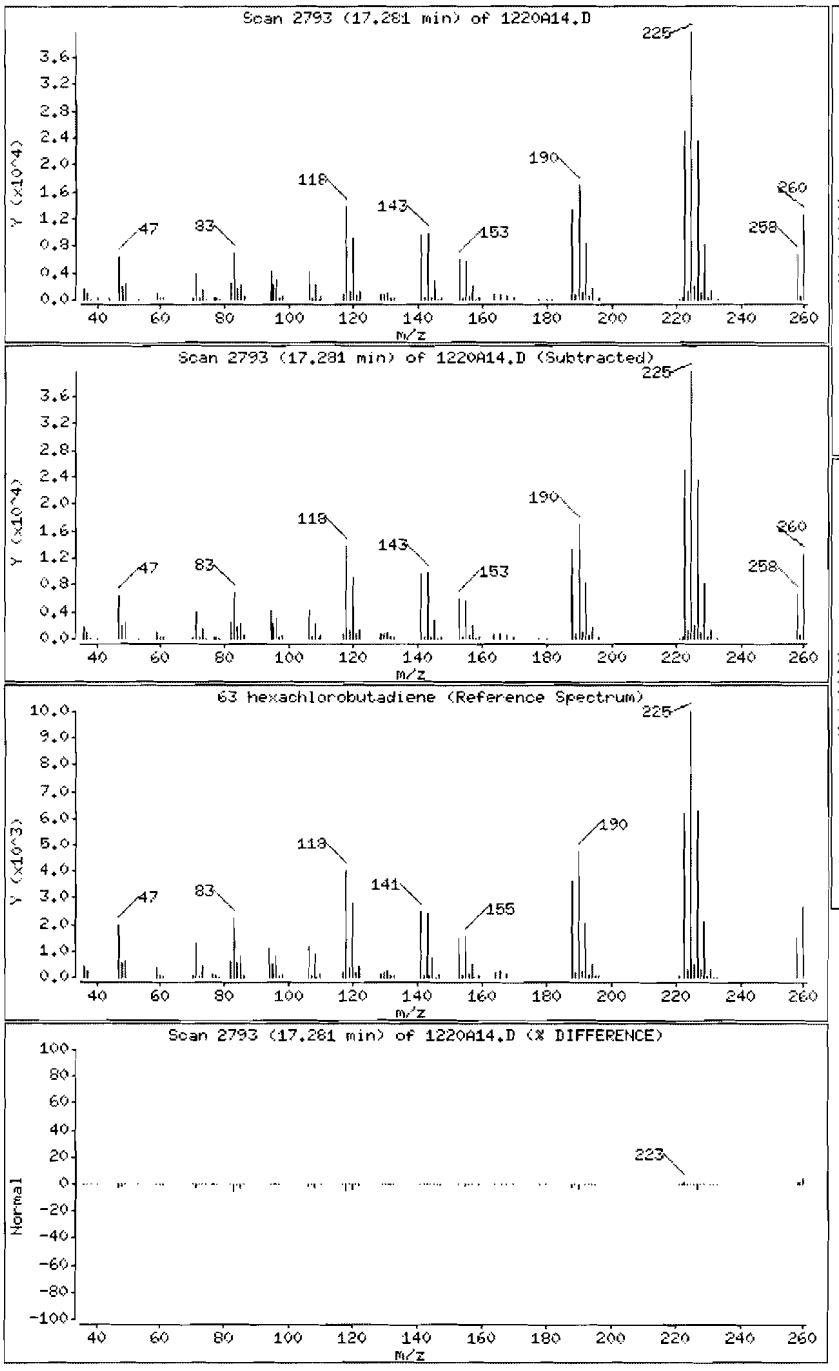
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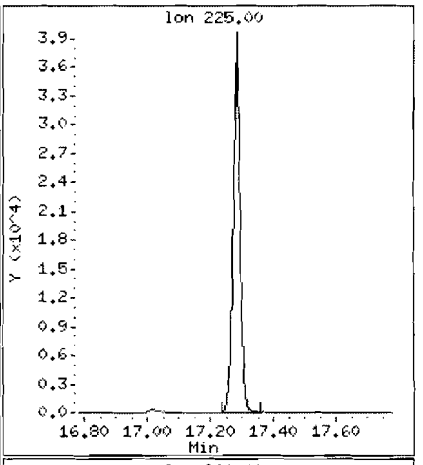
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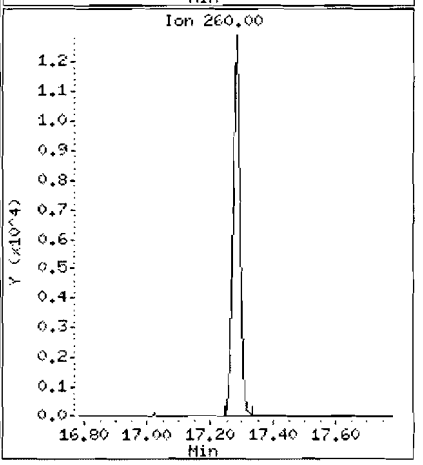
Column diameter: 0.18

63 hexachlorobutadiene

Concentration: 109.41 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

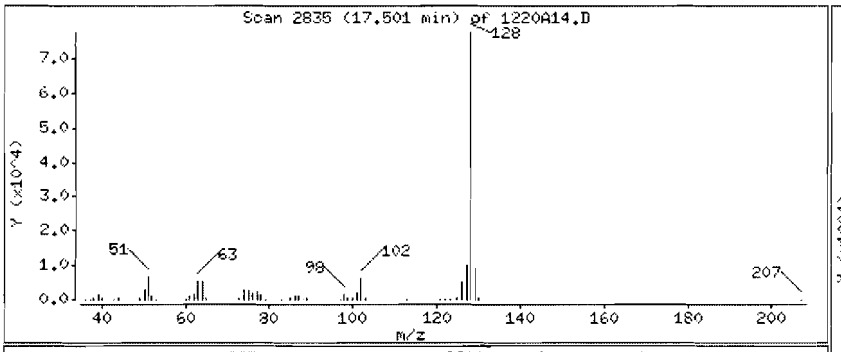
Operator: kl

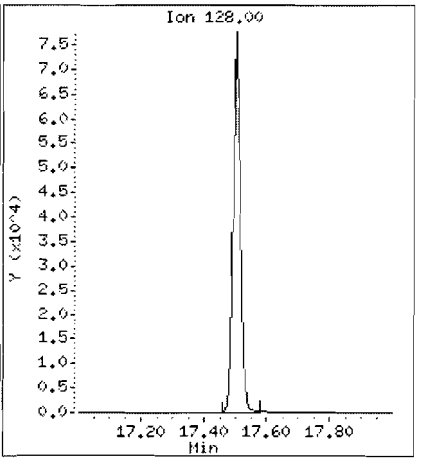
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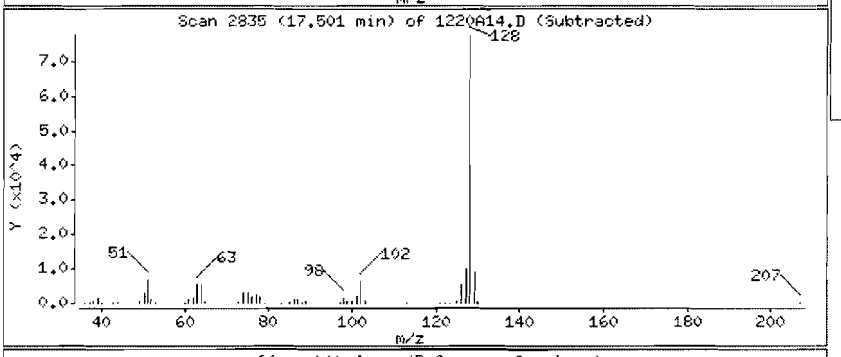
Column diameter: 0.18

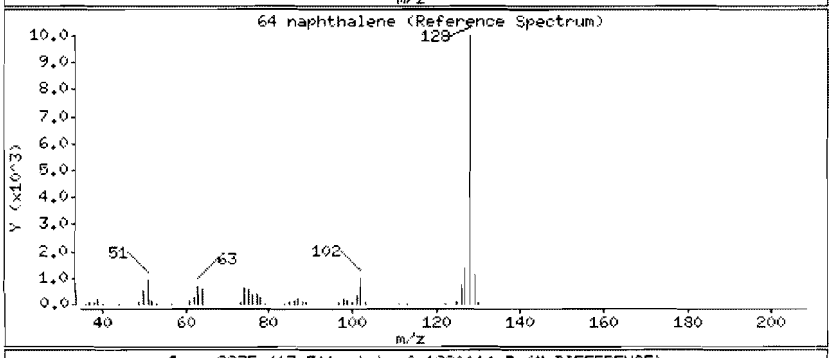
64 naphthalene

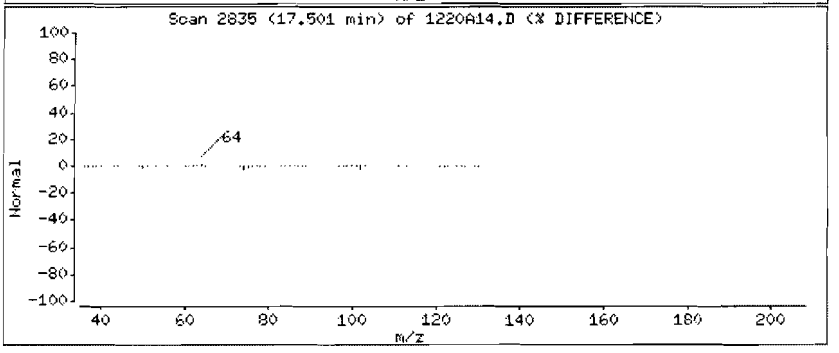
Concentration: 98.47 ngs











Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

Purge Volume: 25.0

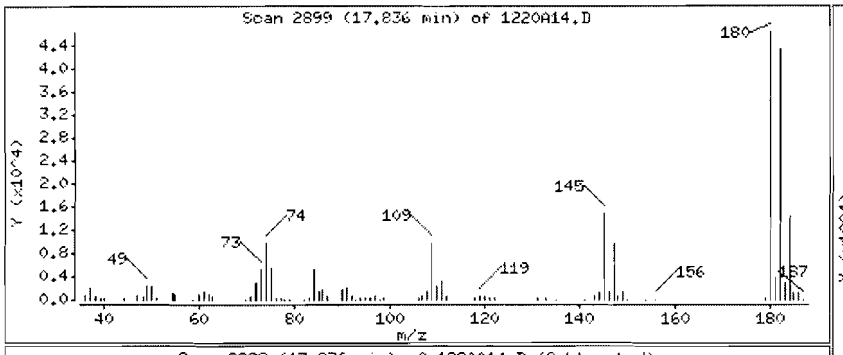
Operator: kl

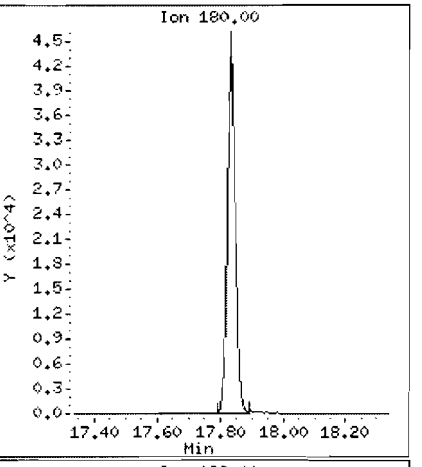
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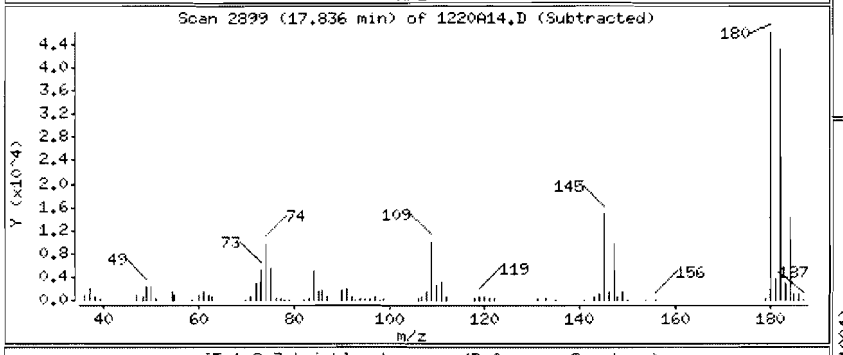
Column diameter: 0.18

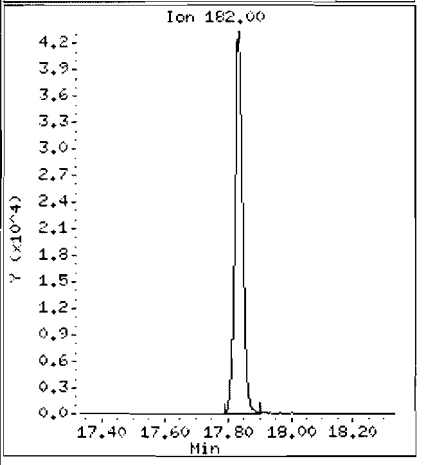
65 1,2,3-trichlorobenzene

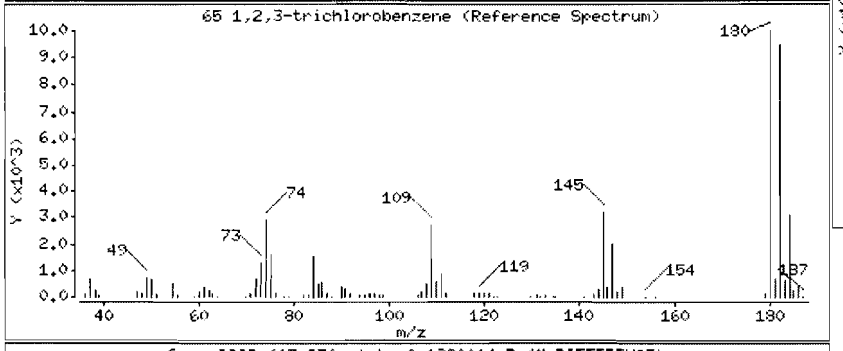
Concentration: 103.52 ngs

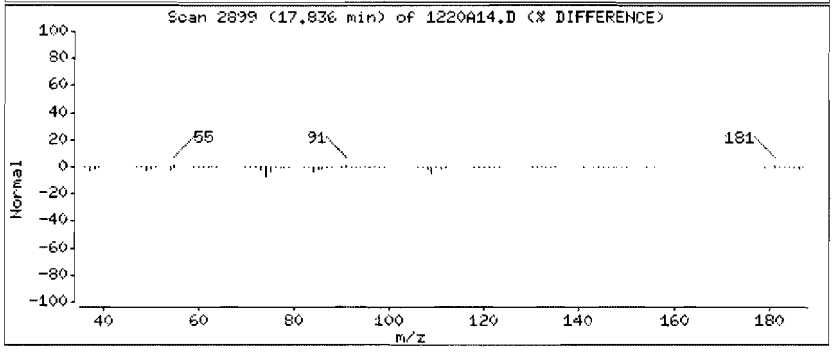












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A14.D

Date : 20-DEC-2012 17:03

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-4,31,25,,b

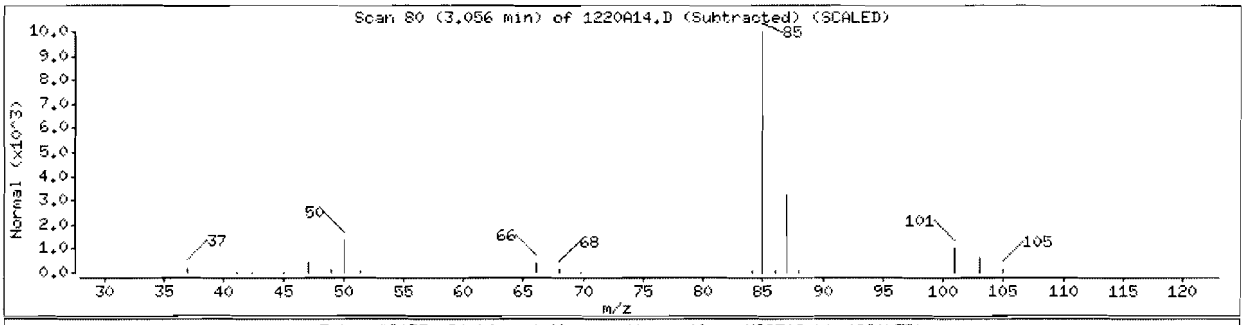
Purge Volume: 25.0

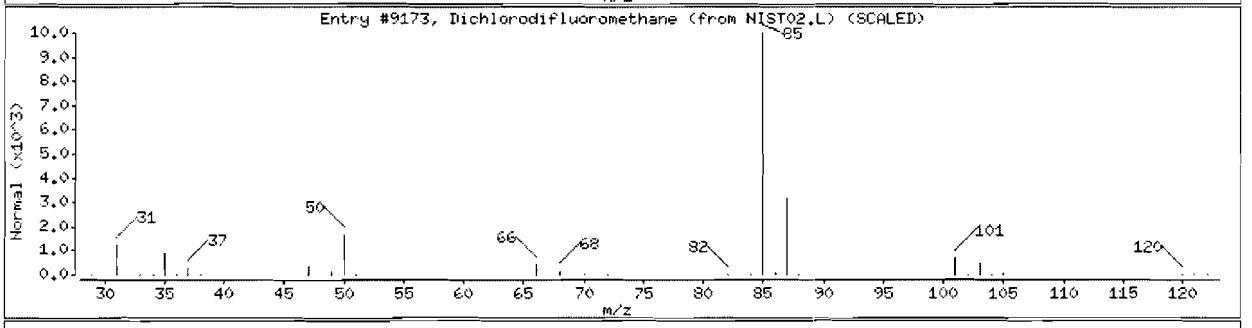
Operator: kl

Column phase:

Column diameter: 0.18

Target Compound	Search Match	CAS Number	Library	Lib Entry	Quality
Dichlorodifluoromethane		75-71-8	NIST02.L	9173	83





Alpha Analytical Labs

gc/ms voa -Bundy 524

Data file : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D
Lab Smp Id:
Inj Date : 20-DEC-2012 17:38
Operator : kl Inst ID: Bundy.i
Smp Info : wg580980-5,31,25,,c
Misc Info : wg580980,ical7597
Comment :
Method : \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Meth Date : 20-Dec-2012 09:46 Bundy.i Quant Type: ISTD
Cal Date : 13-DEC-2012 18:48 Cal File: 1213A11.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: VIRTUALXP-72976

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/l)	(ug/l)	REVIEW CODE
	1 dichlorodifluoromethane	85	2.061	2.056	(0.573)	[illegible]	[illegible]	95.19	
	2 chloromethane	50	3.375	3.376	(0.411)	69581	97.0388	97.04	
	3 vinyl chloride	62	3.424	3.422	(0.476)	90401	117.233	117.23	
	4 bromomethane	94	4.065	4.062	(0.496)	1570[illegible]	100.678	100.67	
	5 chloroethane	64	4.146	4.146	(0.506)	46481	104.514	104.51	
	6 trichlorofluoromethane	101	4.435	4.435	(0.541)	94206	103.881	103.88	
	7 1,1-dichloroethene	96	5.111	5.111	(0.625)	61261	111.179	111.17	
	8 methylene chloride	84	5.609	5.609	(0.684)	55292	100.428	100.42	
	9 methyl-tert-butyl ether	73	5.735	5.735	(0.699)	111772	111.736	111.73	
	10 trans-1,2-dichloroethene	96	5.913	5.910	(0.721)	73071	114.850	114.85	
	11 1,1-dichloroethane	63	6.348	6.348	(0.774)	133806	112.629	112.63	
	12 2,2-dichloropropane	77	6.410	6.410	(0.782)	58166	107.720	107.71	
	13 cis-1,2-dichloroethene	96	6.870	6.872	(0.838)	75512	103.541	103.54	
	14 chloroform	83	7.135	7.135	(0.870)	114634	115.624	115.62	
	15 bromochloromethane	128	7.312	7.324	(0.892)	26554	113.956	113.96	
	16 1,1,1-trichloroethane	97	7.369	7.369	(0.921)	104001	117.426	117.43	
	17 1,1-dichloropropene	75	7.711	7.702	(0.940)	1[illegible]219	118.348	118.34	
	18 carbon tetrachloride	117	7.837	7.837	(0.956)	75232	119.646	119.64	
	19 1,2-dichloroethane	62	7.969	7.969	(0.971)	69457	107.673	107.67	
	20 benzene	78	8.010	8.010	(0.976)	278943	112.165	112.16	
*	21 fluorobenzene	96	8.204	8.204	(1.000)	224551	100.000		
	22 trichloroethene	95	8.634	8.634	(1.052)	75400	130.487	130.49	
	23 1,2-dichloropropane	63	8.810	8.810	(1.074)	76837	113.777	113.77	
	24 bromodichloromethane	83	8.980	8.980	(1.094)	86648	116.943	116.94	
	25 dibromomethane	93	9.104	9.104	(1.110)	35927	104.951	104.95	
	26 cis-1,3-dichloropropene	75	9.636	9.636	(1.174)	95206	114.237	114.23	
	27 toluene	91	10.024	10.024	(1.221)	193036	116.405	116.40	
	28 trans-1,3-dichloropropene	75	10.191	10.196	(1.241)	65022	97.6295	97.63	

			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	REVIEW COLF
	29	1,1,2-trichloroethane	83	10.350	10.350	(1.266)	5.447	103.858	103.86	
	30	1,3-dichloropropane	76	10.663	10.663	(1.304)	62.241	109.705	109.71	
	31	tetrachloroethene	166	10.784	10.784	(1.319)	440839	556.169	556.17	R,
	32	dibromochloromethane	129	11.030	11.030	(1.349)	47711	101.775	101.78	
	33	1,2-dibromoethane	107	11.172	11.172	(1.366)	50196	99.0293	99.03	
*	34	chlorobenzene-d5	117	11.696	11.696	(1.000)	324486	150.000		
	35	chlorobenzene	112	11.743	11.743	(1.004)	692.128	99.2178	99.22	
	36	ethylbenzene	91	11.770	11.770	(1.007)	5.4736	109.237	109.24	
	37	1,1,1,2-tetrachloroethane	131	11.795	11.795	(1.009)	4.9452	109.410	109.41	
	38	p/m-xylenes	106	11.959	11.954	(1.023)	969111	111.701	111.70	
	39	o-xylenes	106	12.394	12.394	(1.060)	403364	99.8744	99.87	
	40	styrene	104	12.430	12.430	(1.063)	2.1.1.1	102.110	102.11	
	41	isopropylbenzene	105	12.801	12.802	(1.095)	35.143	100.583	100.58	
	42	bromoform	173	12.909	12.912	(1.104)	2.1.1	99.4104	99.41	
	43	1,1,2,2-tetrachloroethane	83	13.017	13.011	(1.113)	3.4.7.0	103.057	103.06	
$	44	4-bromofluorobenzene	95	13.138	13.138	(1.123)	1.1.1.5	100.000	100.00	
	45	1,2,3-trichloropropane	110	13.201	13.201	(1.129)	1.1.1.1	99.6406	99.64	
	46	n-propylbenzene	91	13.395	13.395	(1.145)	3.1.1.1	97.5200	97.52	
	47	bromobenzene	156	13.421	13.421	(1.147)	2.1.1.1	104.511	104.51	
	48	1,3,5-trimethylbenzene	105	13.484	13.484	(1.153)	2.1.1.1	102.178	102.18	
	49	2-chlorotoluene	126	13.563	13.554	(1.160)	1.1.1.1	100.693	100.69	
	50	p-chlorotoluene	91	13.601	13.601	(1.163)	1.1.1.1	101.859	101.86	
	51	tert-butylbenzene	119	13.930	13.930	(1.191)	2.1.1.1	101.790	101.79	
	52	1,2,4,-trimethylbenzene	105	13.987	13.987	(1.196)	2.1.1.1	102.079	102.08	
	53	sec-butylbenzene	105	14.141	14.142	(1.209)	3.1.1.1	101.633	101.63	
	54	p-isopropyltoluene	119	14.349	14.347	(1.227)	3.1.1.1	100.780	100.77	
	55	1,3-dichlorobenzene	146	14.527	14.527	(0.814)	1.1.1.1	97.4300	97.43	
*	56	1,4-dichlorobenzene-d4	152	14.611	14.611	(1.000)	12409	150.000		
	57	1,4-dichlorobenzene	146	14.653	14.653	(1.003)	1.1.1.1	103.421	103.43	
	58	n-butylbenzene	91	14.851	14.852	(1.017)	3.1.1.1	107.098	107.09	
$	59	1,2-dichlorobenzene-d4	152	15.033	15.033	(1.029)	1.1.1.1	99.2100	99.21	
	60	1,2-dichlorobenzene	146	15.120	15.120	(1.035)	1.1.1.1	96.4794	96.47	
	61	1,2-dibromo-3-chloropropane	75	16.348	16.048	(1.090)	2.1.1	88.4409	88.44	
	62	1,2,4-trichlorobenzene	180	17.126	17.126	(1.172)	1.1.1.1	98.6520	98.65	
	63	hexachlorobutadiene	225	17.240	17.238	(1.180)	6.1.1.1	112.249	112.24	
	64	naphthalene	128	17.540	17.532	(1.199)	3.1.1.1	92.6231	92.62	
	65	1,2,3-trichlorobenzene	180	17.636	17.636	(1.206)	1.1.1.1	102.674	102.67	
%	66	Xylene (total)	106				1.1.1.1	311.178	311.17	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Alpha Analytical Labs

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: Bundy.i
Lab File ID: 1220A15.D
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

Calibration Date: 20-DEC-2012
Calibration Time: 09:09
Level: MED
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	257505	128753	515010	228551	-11.24
34 Chlorobenzene-d5	246648	123324	493296	228488	-7.36
56 1,4-Dichlorobenze	135773	67887	271546	124271	-8.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 fluorobenzene	8.20	7.70	8.70	8.20	-0.00
34 Chlorobenzene-d5	11.70	11.20	12.20	11.70	-0.00
56 1,4-Dichlorobenze	14.61	14.11	15.11	14.61	-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.

Alpha Analytical Labs

RECOVERY REPORT

Client Name: Client SDG: 121220.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id:
Level: MED Operator: kl
Data Type: MS DATA SampleType: MSD
SpikeList File: 524lcs.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\524.m
Misc Info: wg580980,ical7597

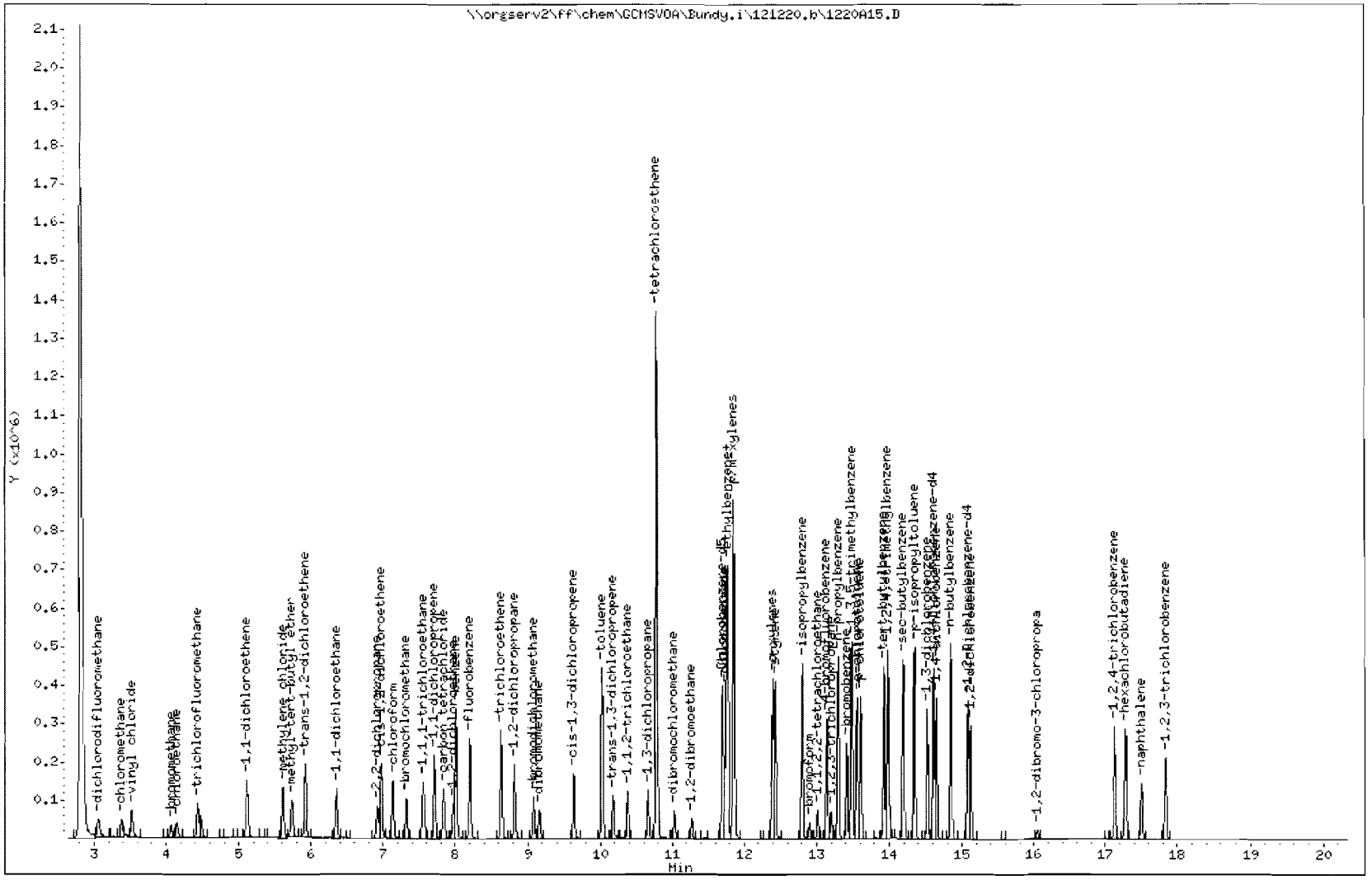
SPIKE COMPOUND	CONC ADDED ngs	CONC RECOVERED ngs	% RECOVERED	LIMITS
1 dichlorodifluorome	100.00	93.99	93.99	70-130
2 chloromethane	100.00	87.03	87.04	70-130
3 vinyl chloride	100.00	117.23	117.23	70-130
4 bromomethane	100.00	109.57	109.58	70-130
5 chloroethane	100.00	104.39	104.39	70-130
6 trichlorofluoromet	100.00	103.88	103.88	70-130
7 1,1-dichloroethene	100.00	111.17	111.18	70-130
8 methylene chloride	100.00	105.62	105.63	70-130
9 methyl-tert-butyl	100.00	112.15	112.16	70-130
10 trans-1,2-dichloro	100.00	114.85	114.86	70-130
11 1,1-dichloroethane	100.00	112.68	112.68	70-130
12 2,2-dichloropropan	100.00	107.71	107.72	70-130
13 cis-1,2-dichloroet	100.00	123.38	123.38	70-130
14 chloroform	100.00	115.62	115.63	70-130
15 bromochloromethane	100.00	113.95	113.95	70-130
16 1,1,1-trichloroeth	100.00	117.45	117.45	70-130
17 1,1-dichloropropen	100.00	118.04	118.05	70-130
18 carbon tetrachlori	100.00	119.64	119.65	70-130
19 1,2-dichloroethane	100.00	107.67	107.67	70-130
20 benzene	100.00	112.16	112.16	70-130
22 trichloroethene	100.00	132.48	132.49*	70-130
23 1,2-dichloropropan	100.00	113.77	113.78	70-130
24 bromodichlorometha	100.00	105.97	105.97	70-130
25 dibromomethane	100.00	104.95	104.95	70-130
26 cis-1,3-dichloropr	100.00	114.23	114.23	70-130
27 toluene	100.00	116.49	116.50	70-130
28 trans-1,3-dichloro	100.00	97.52	97.53	70-130
29 1,1,2-trichloroeth	100.00	107.85	107.86	70-130
30 1,3-dichloropropan	100.00	109.59	109.59	70-130
31 tetrachloroethene	100.00	586.16	586.17*	70-130
32 dibromochlorometha	100.00	102.75	102.75	70-130
33 1,2-dibromoethane	100.00	99.02	99.03	70-130
35 chlorobenzene	100.00	99.21	99.22	70-130
37 1,1,1,2-tetrachlor	100.00	109.04	109.04	70-130
36 ethylbenzene	100.00	108.37	108.38	70-130
38 p/m-xylenes	200.00	211.70	105.85	70-130
39 o-xylenes	100.00	99.37	99.37	70-130
40 styrene	100.00	105.11	105.11	70-130
41 isopropylbenzene	100.00	100.89	100.89	70-130
42 bromoform	100.00	95.94	95.95	70-130

	SPIKE COMPOUND	CONC ADDED ngs	CONC RECOVERED ngs	% RECOVERED	LIMITS
	43 1,1,2,2-tetrachlor	100.00	103.05	103.06	70-130
	45 1,2,3-trichloropro	100.00	99.99	100.00	70-130
	46 n-propylbenzene	100.00	98.89	98.90	70-130
	47 bromobenzene	100.00	103.51	103.51	70-130
	48 1,3,5-trimethylben	100.00	112.12	112.12	70-130
	49 o-chlorotoluene	100.00	100.95	100.95	70-130
	50 p-chlorotoluene	100.00	97.85	97.86	70-130
	51 tert-butylbenzene	100.00	101.79	101.79	70-130
	52 1,2,4,-trimethylbe	100.00	106.68	106.69	70-130
	53 sec-butylbenzene	100.00	101.63	101.64	70-130
	54 p-isopropyltoluene	100.00	100.77	100.78	70-130
	55 1,3-dichlorobenzen	100.00	97.48	97.48	70-130
	57 1,4-dichlorobenzen	100.00	103.43	103.43	70-130
	58 n-butylbenzene	100.00	107.59	107.60	70-130
	60 1,2-dichlorobenzen	100.00	95.47	95.48	70-130
	61 1,2-dibromo-3-chlo	100.00	88.44	88.44	70-130
	62 1,2,4-trichloroben	100.00	98.63	98.63	70-130
	63 hexachlorobutadien	100.00	112.24	112.25	70-130
	64 naphthalene	100.00	92.62	92.63	70-130
	65 1,2,3-trichloroben	100.00	102.60	102.60	70-130
M	66 Xylene (total)	300.00	311.07	103.69	70-130

	SURROGATE COMPOUND	AMOUNT ADDED ngs	AMOUNT RECOVERED ngs	% RECOVERED	LIMITS
$	44 4-bromofluorobenze	100.00	100.37	100.37	80-120
$	59 1,2-Dichlorobenzen	100.00	99.21	99.22	80-120

Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D
Date : 20-DEC-2012 17:38
Client ID:
Sample Info: wg580980-5,31,25,,c
Purge Volume: 25.0
Column phase:

Instrument: Bundy.i
Operator: kl
Column diameter: 0.18



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

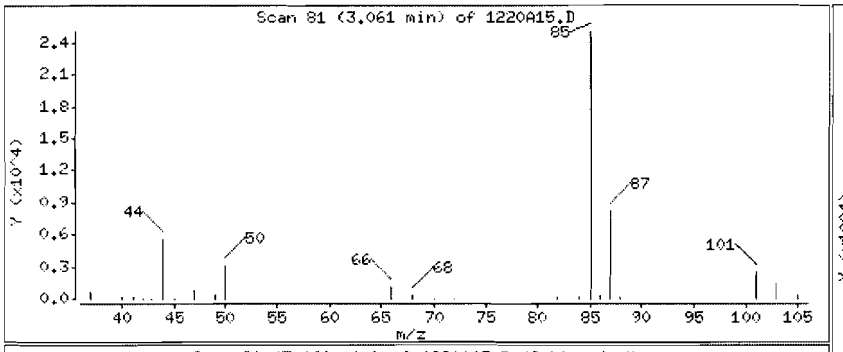
Operator: kl

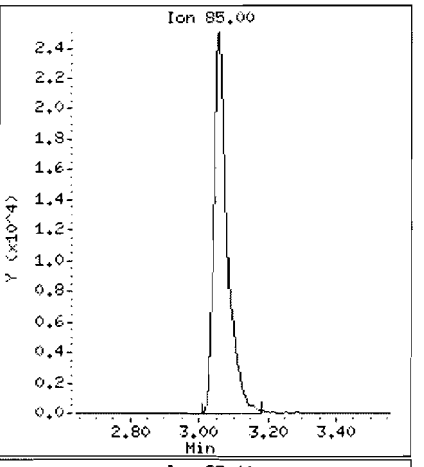
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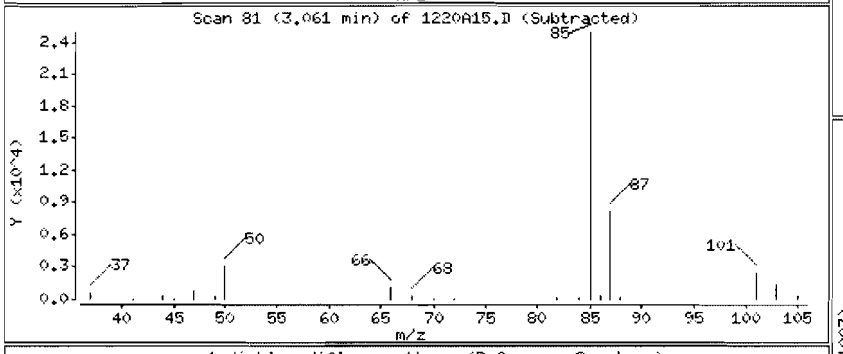
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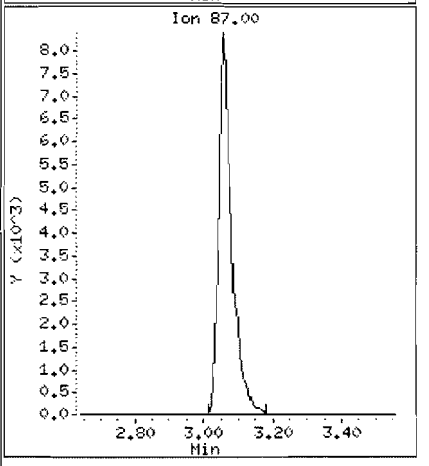
1 dichlorodifluoromethane

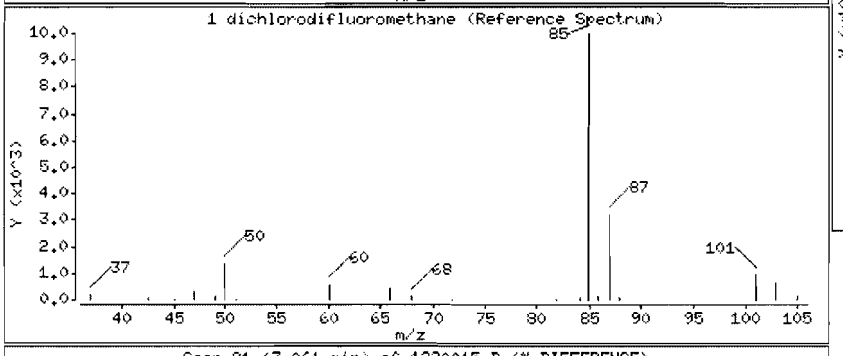
Concentration: 93.99 ngs

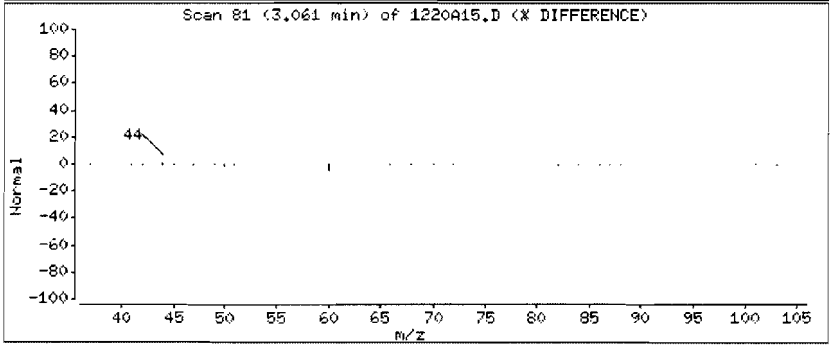












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

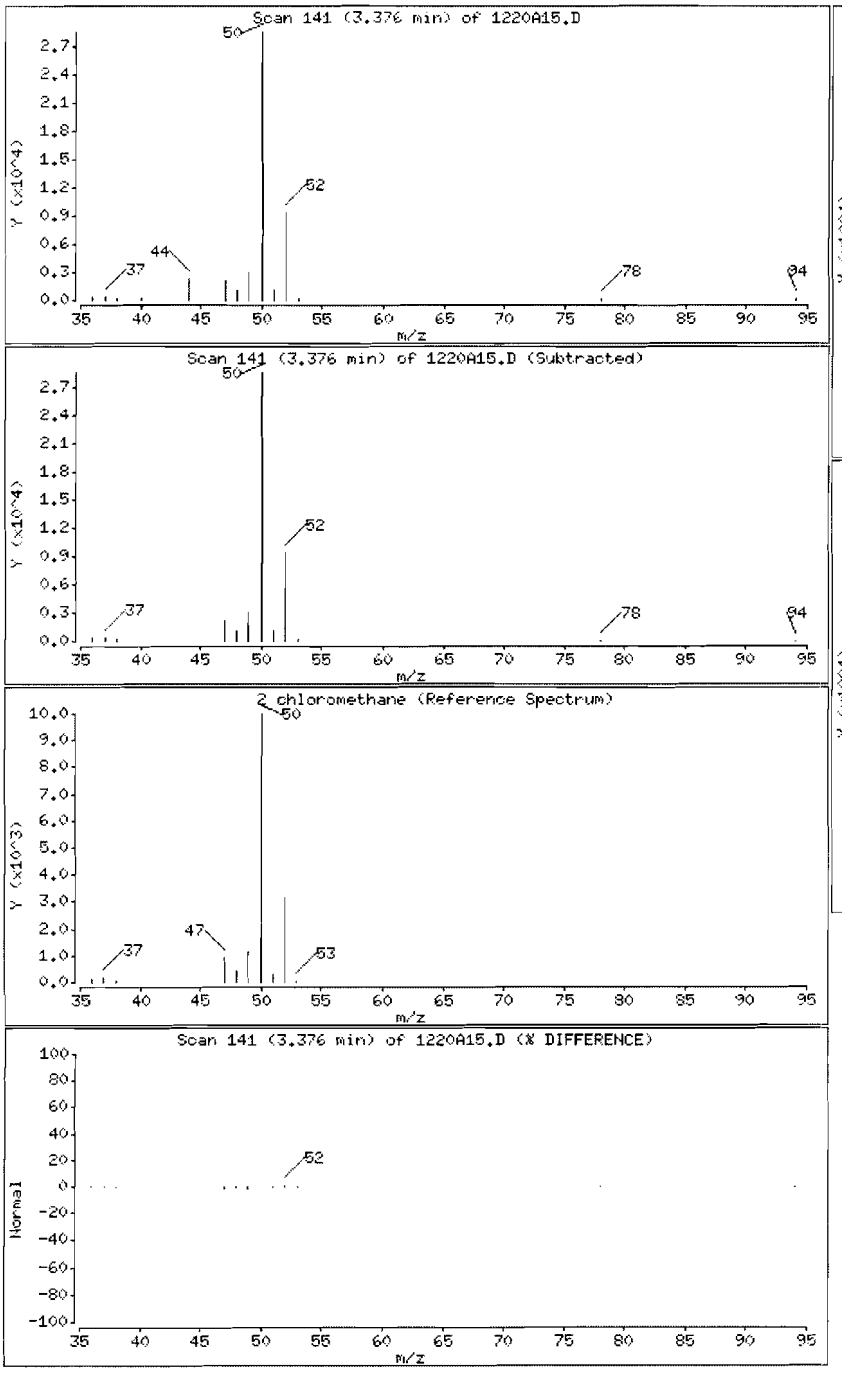
Operator: kl

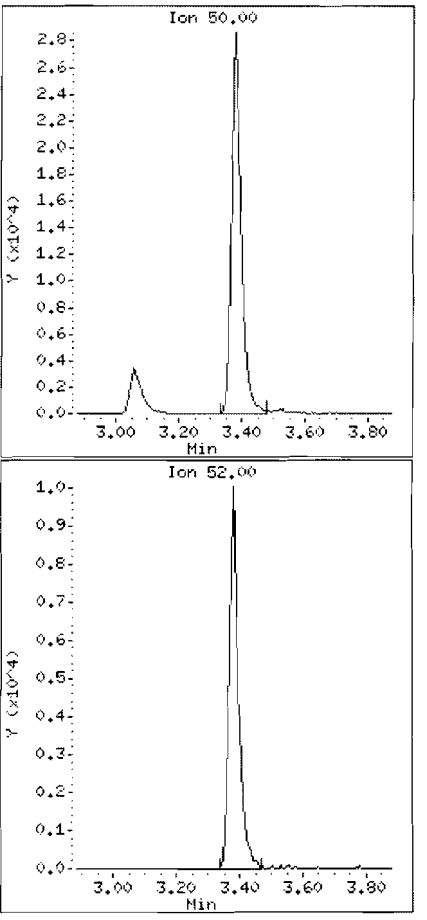
Column phase:

Column diameter: 0.18

2 chloromethane

Concentration: 87.03 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

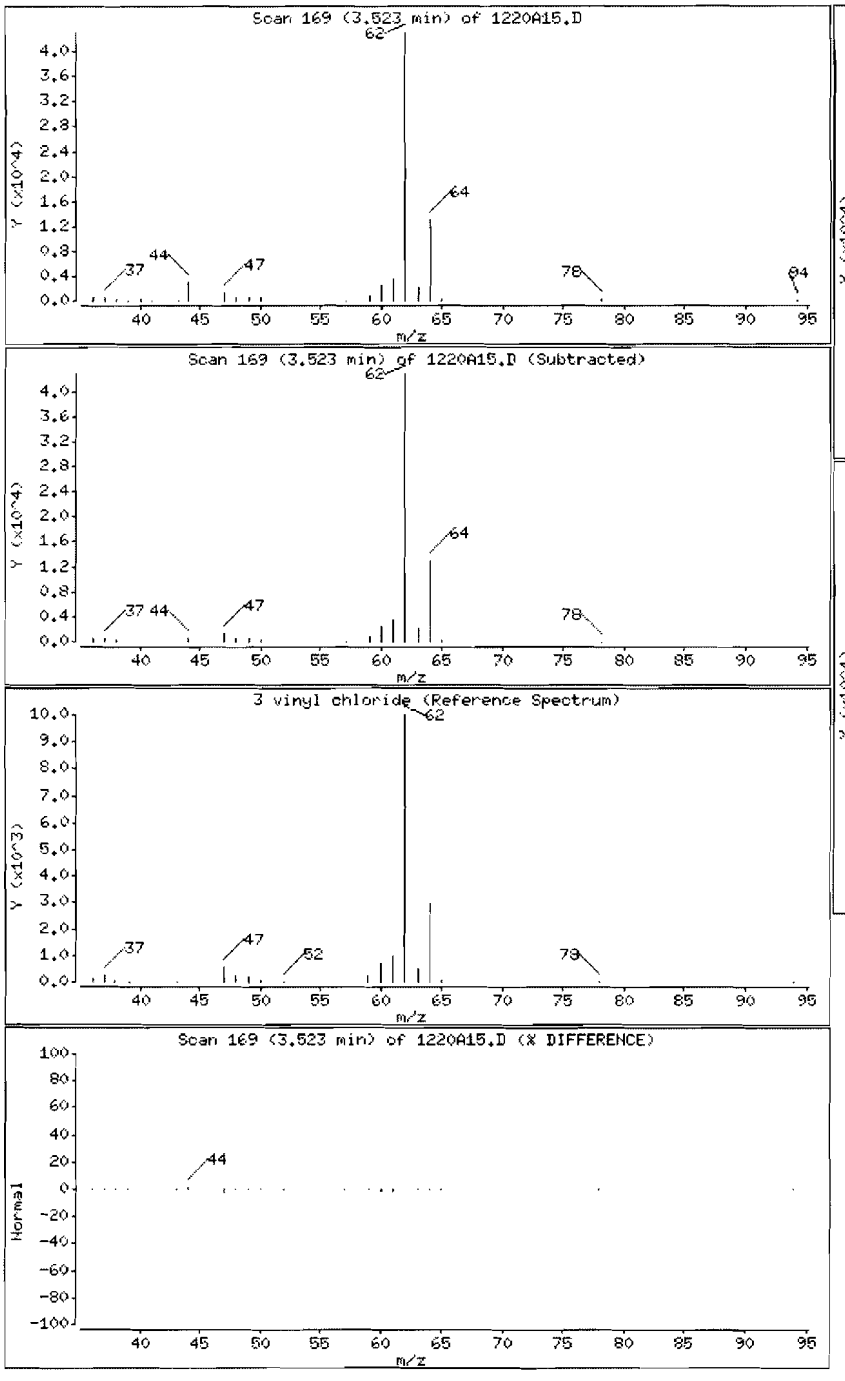
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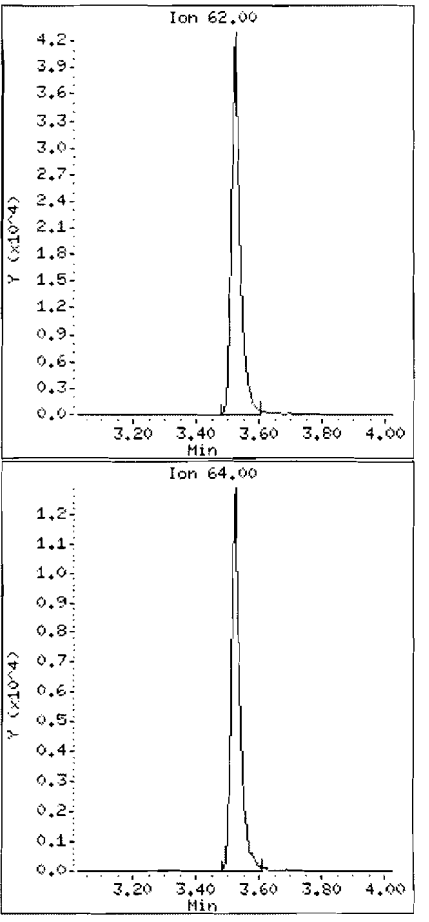
Column phase:

Column diameter: 0.18

3 vinyl chloride

Concentration: 117.23 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

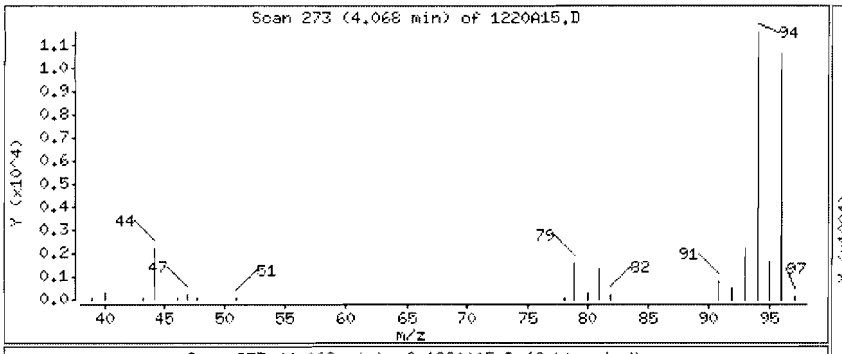
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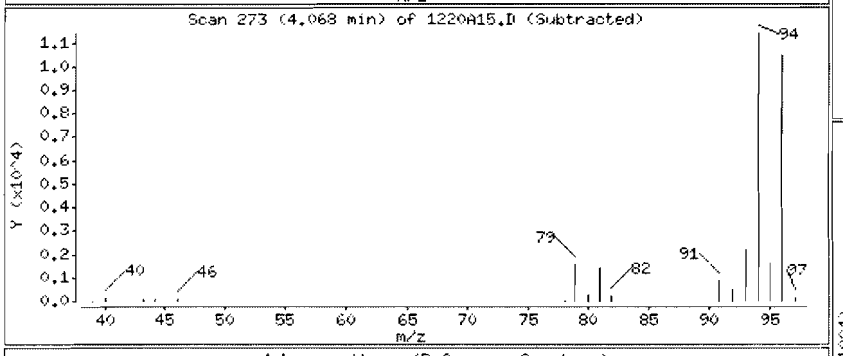
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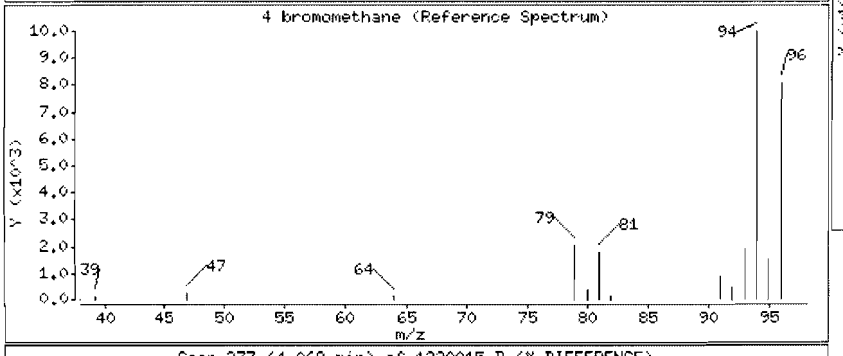
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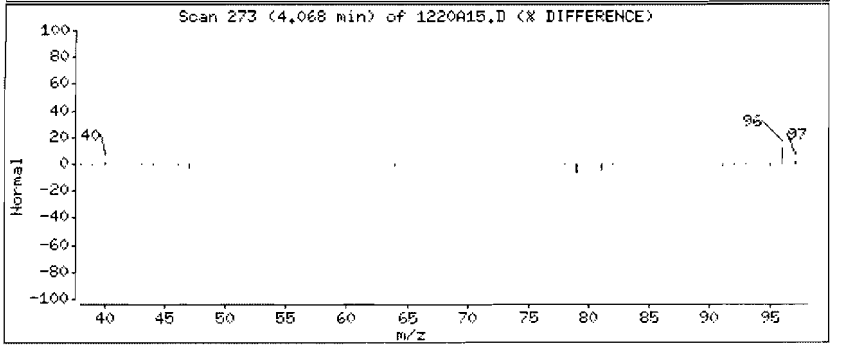
4 bromomethane

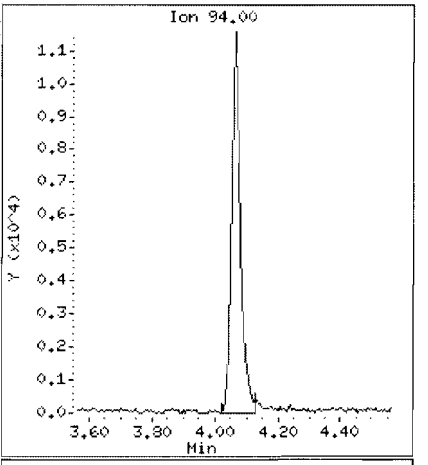
Concentration: 109.57 ngs

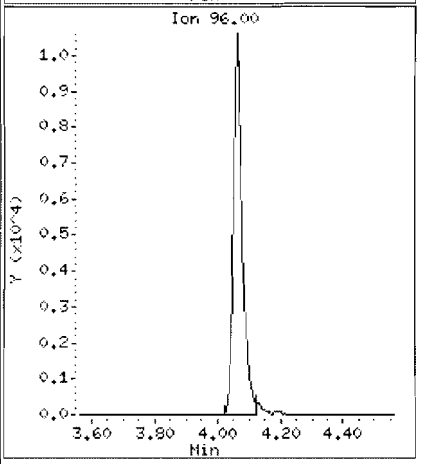












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

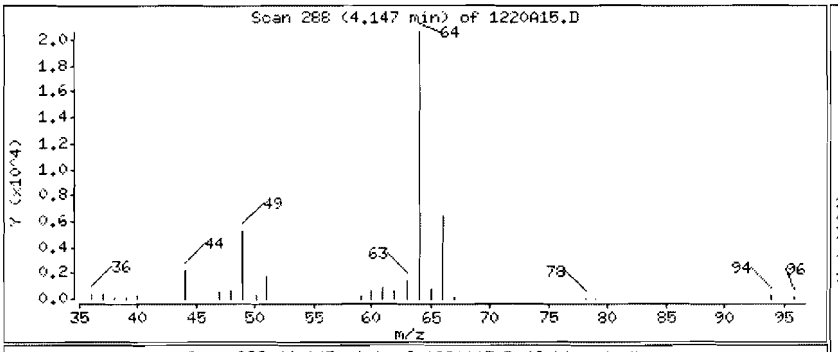
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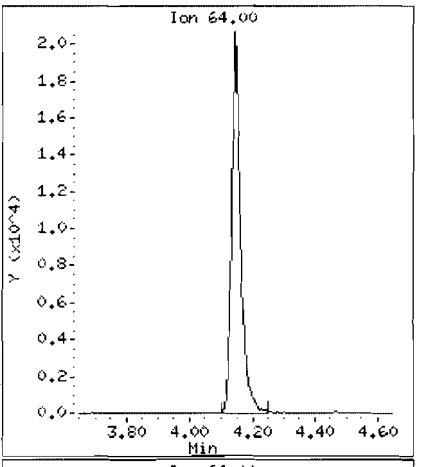
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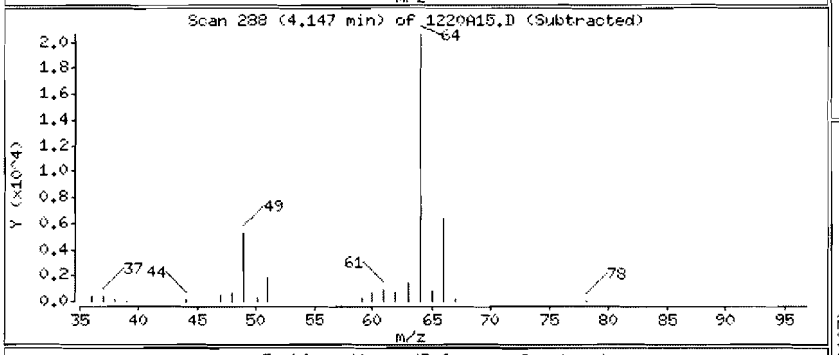
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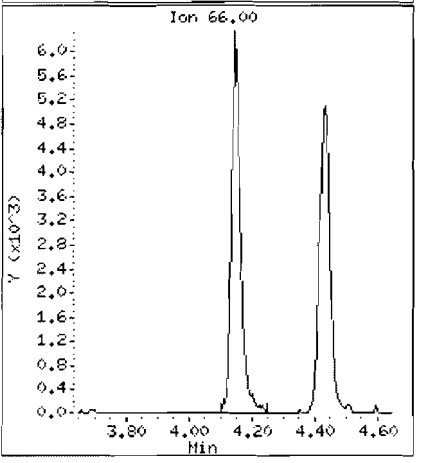
5 chloroethane

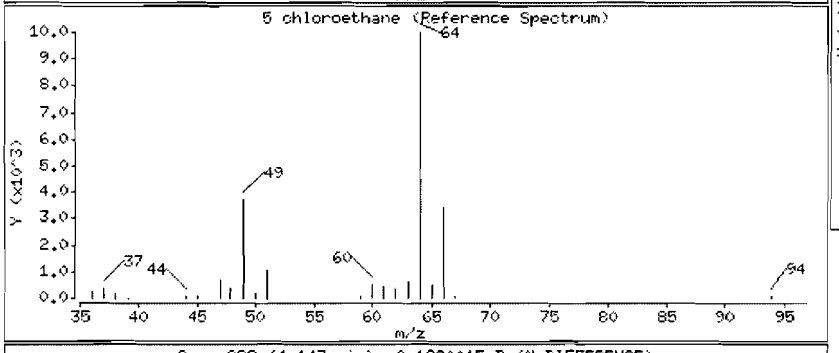
Concentration: 104.39 ngs

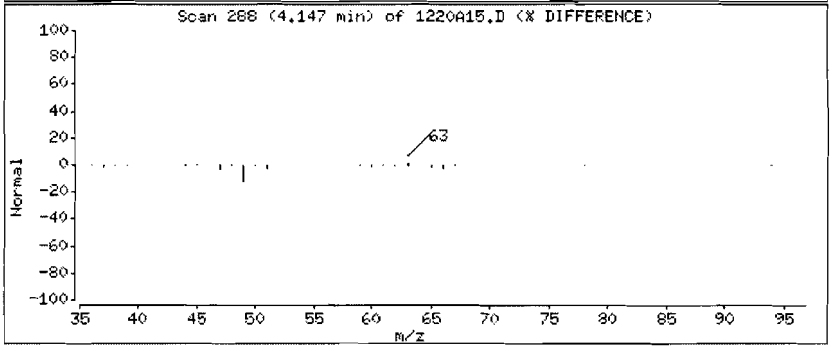












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

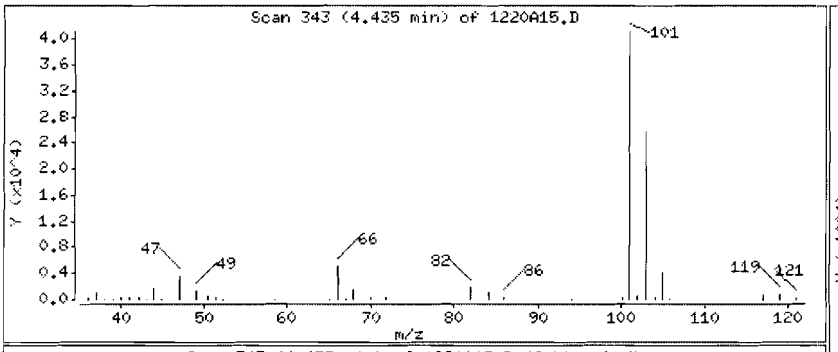
Operator: kl

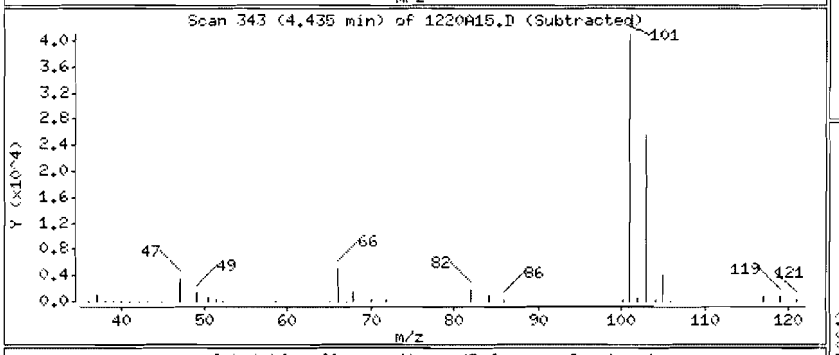
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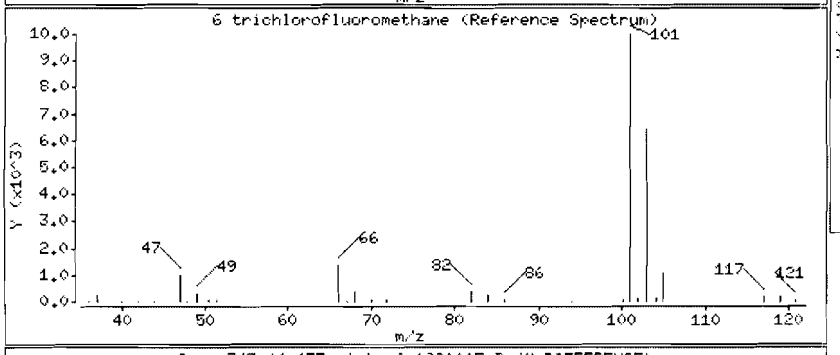
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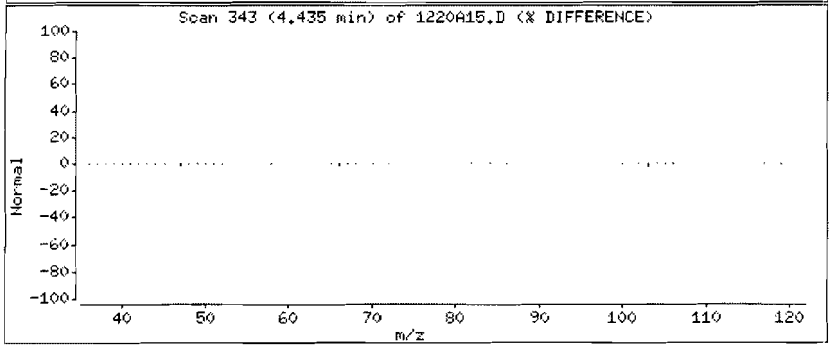
6 trichlorofluoromethane

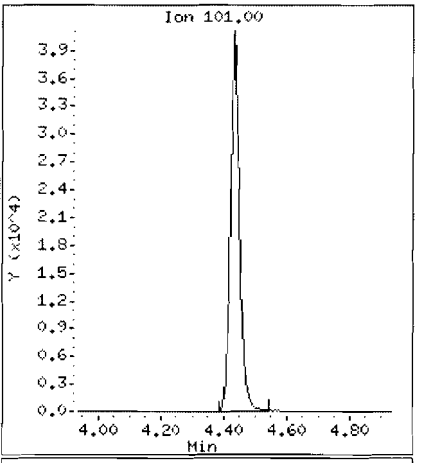
Concentration: 103.88 ngs

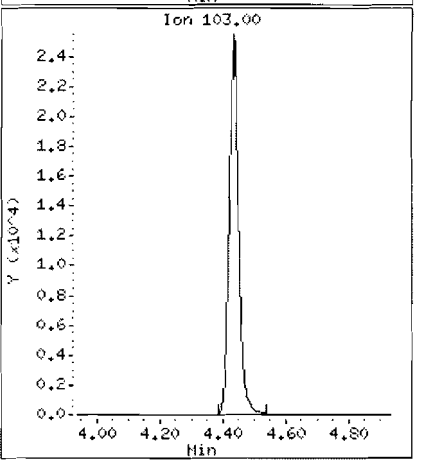












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

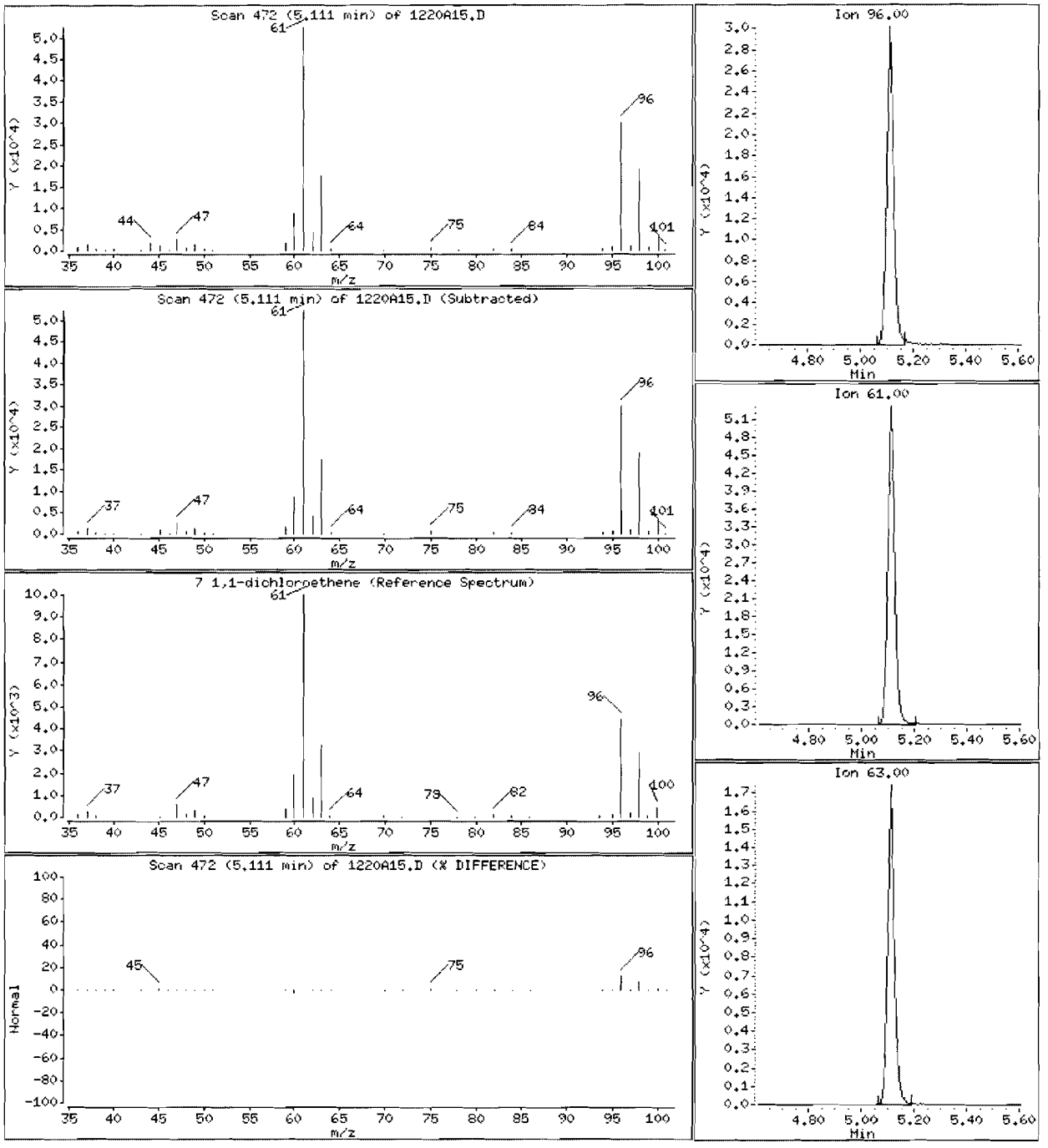
Operator: kl

Column phase:

Column diameter: 0.18

7 1,1-dichloroethene

Concentration: 111.17 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

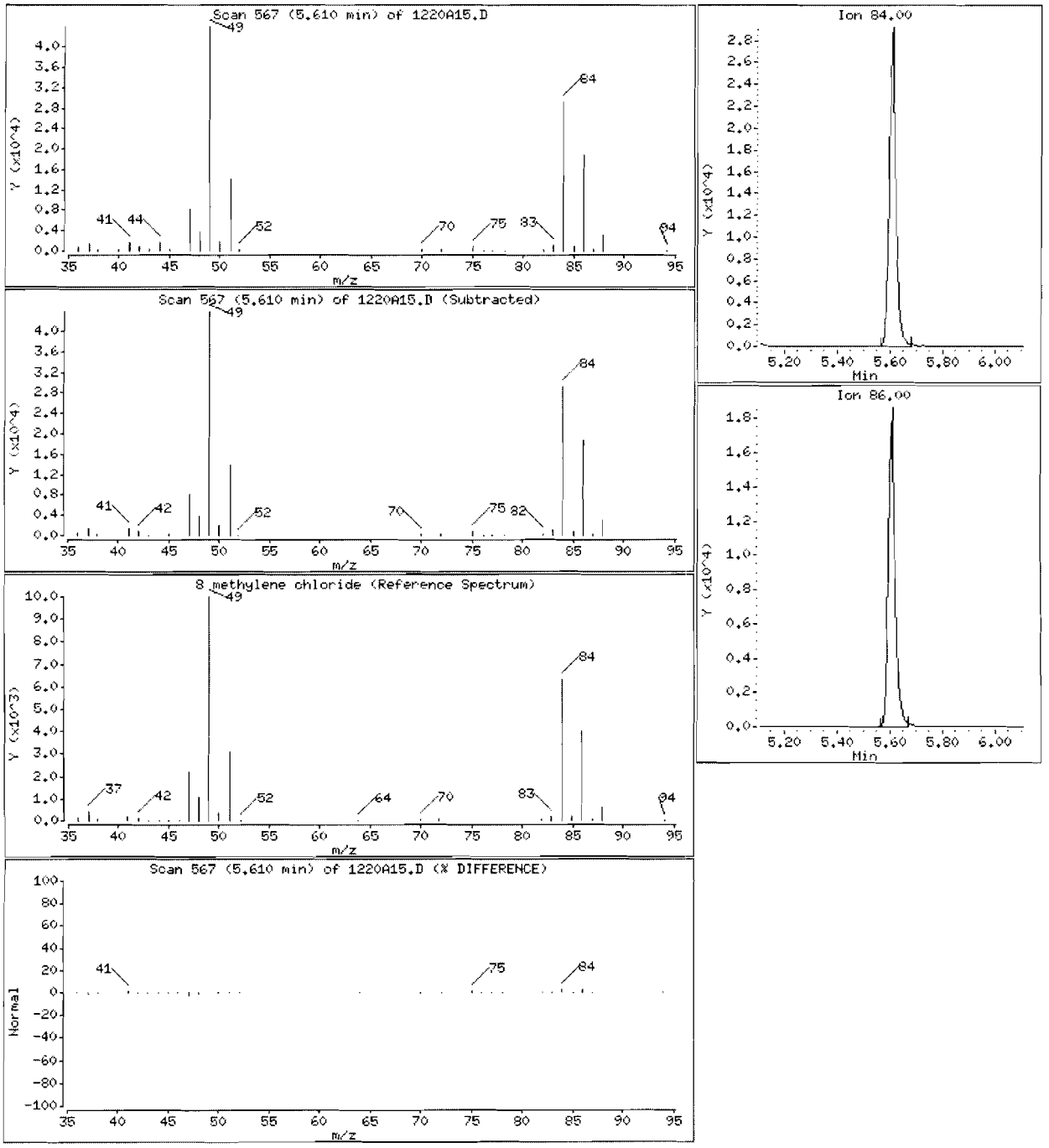
Operator: kl

Column phase:

Column diameter: 0.18

8 methylene chloride

Concentration: 105.62 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

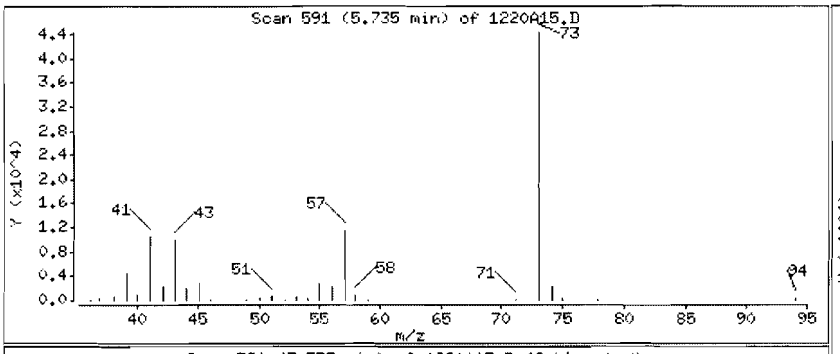
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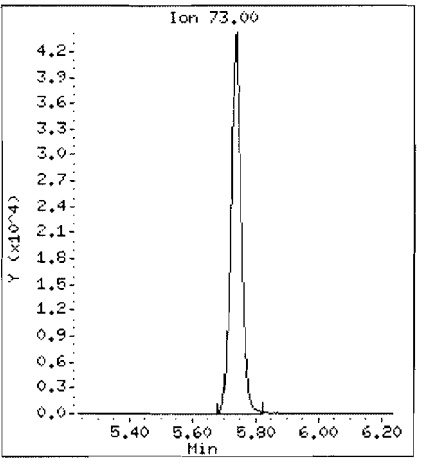
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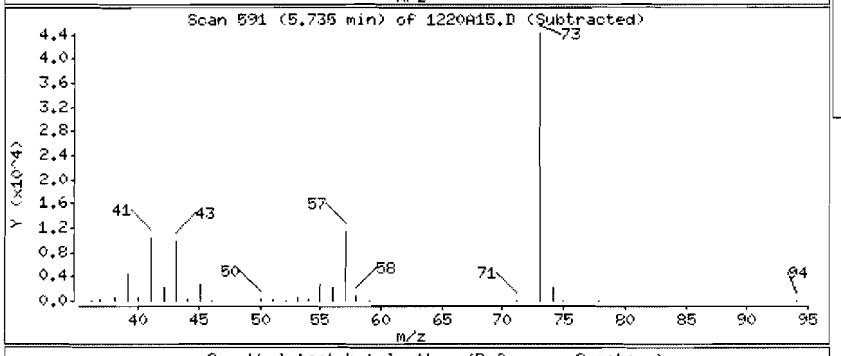
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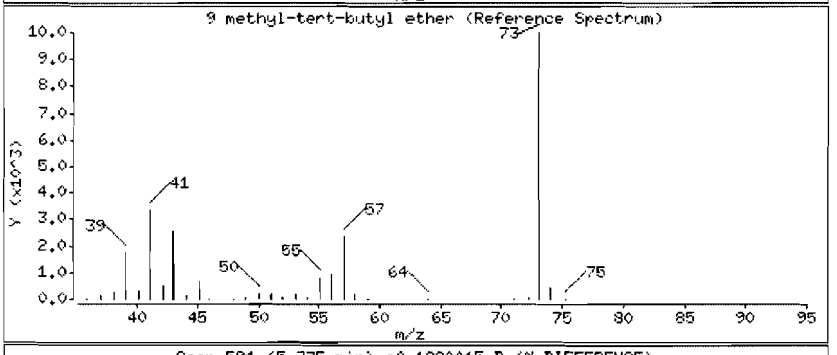
9 methyl-tert-butyl ether

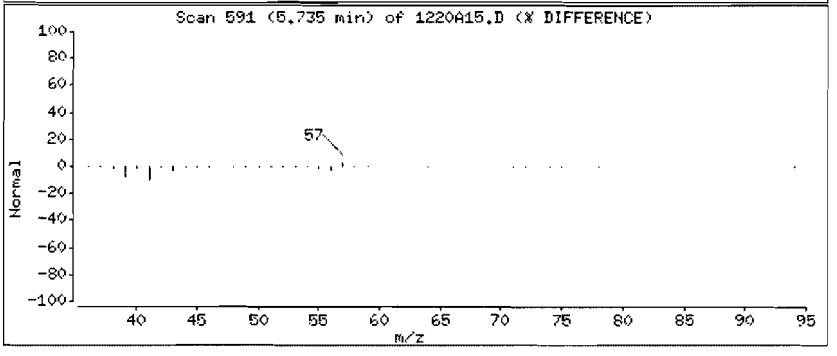
Concentration: 112.15 ngs











Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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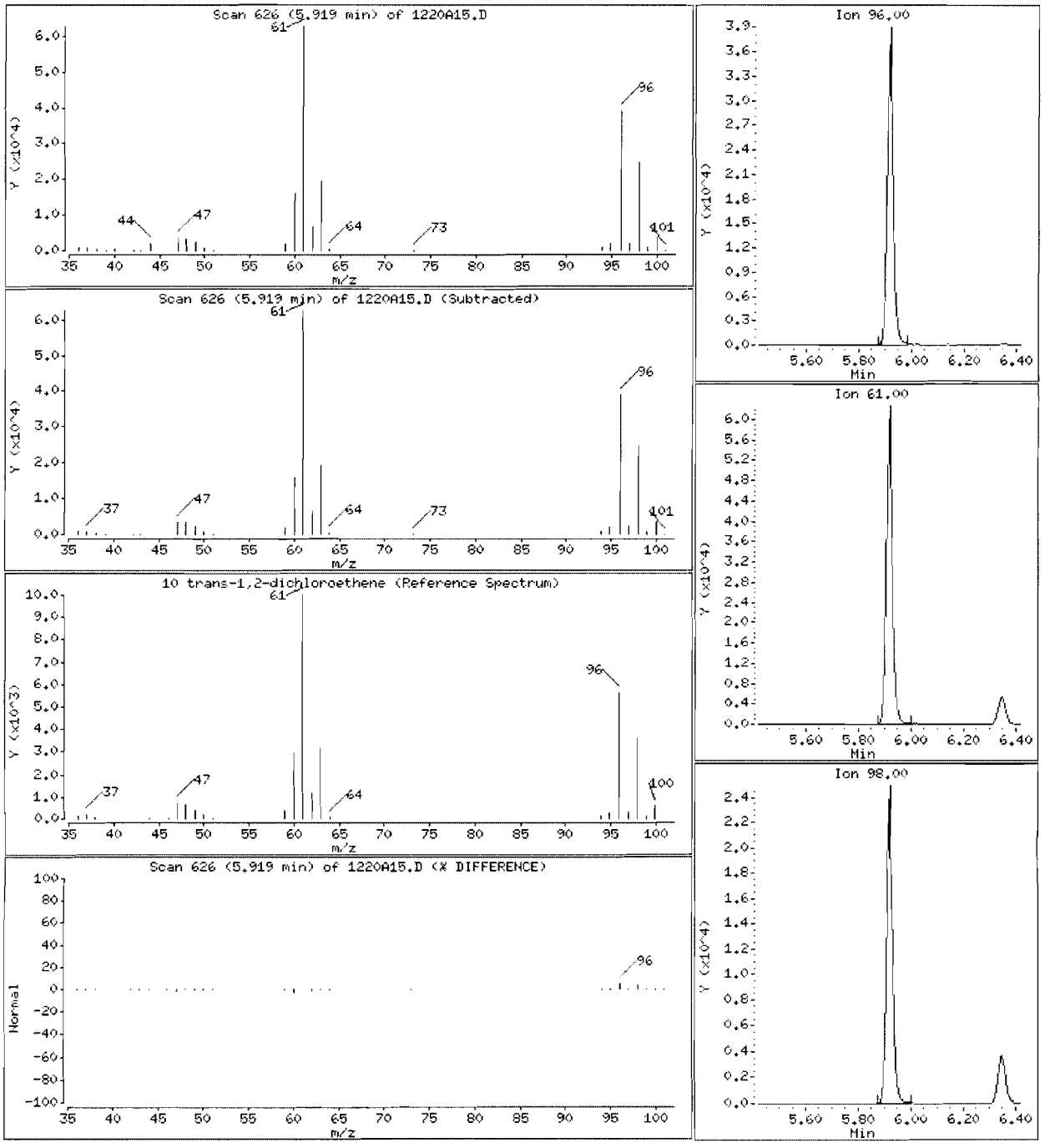
Operator: kl

Column phase:

Column diameter: 0.18

10 trans-1,2-dichloroethene

Concentration: 114.85 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

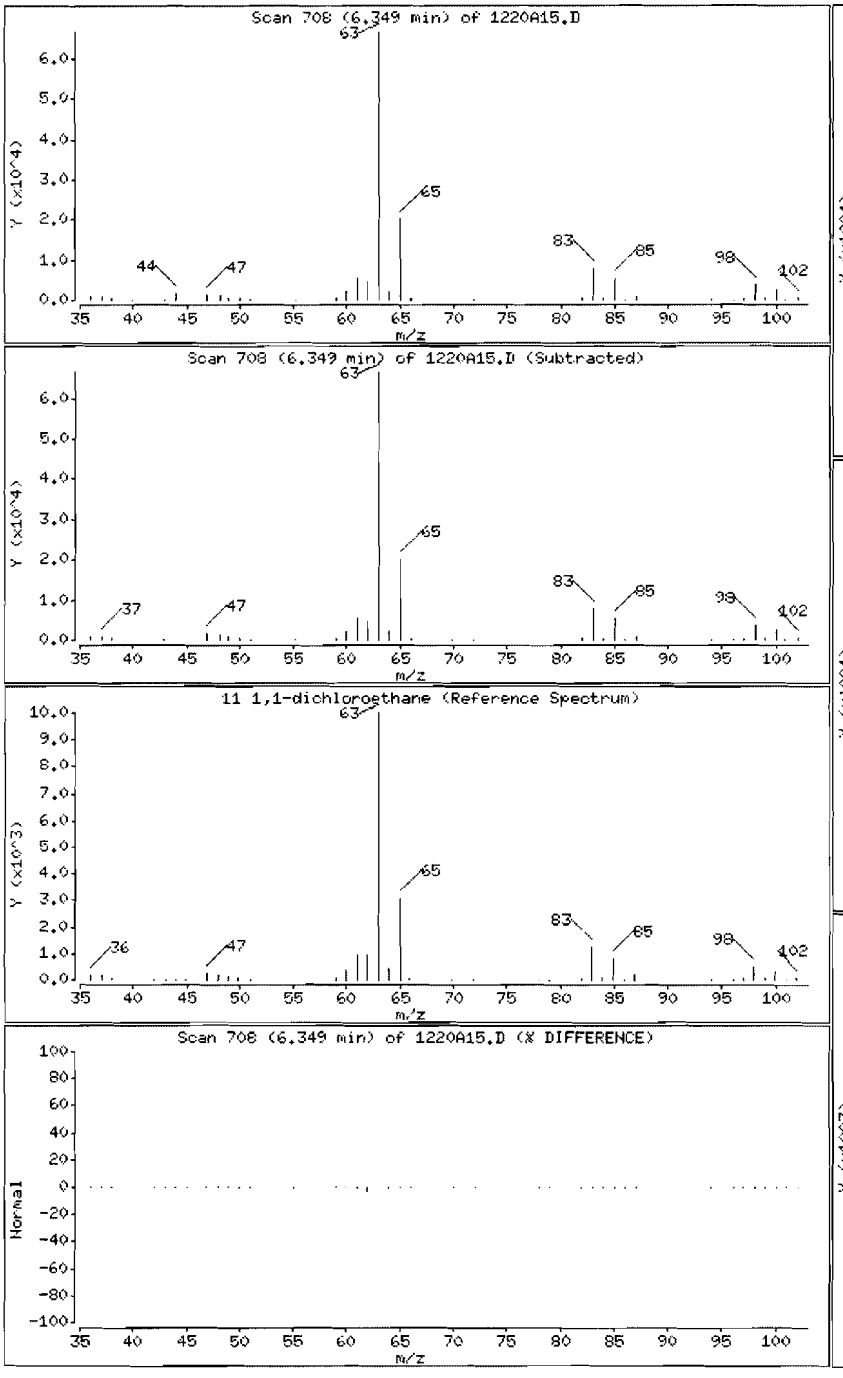
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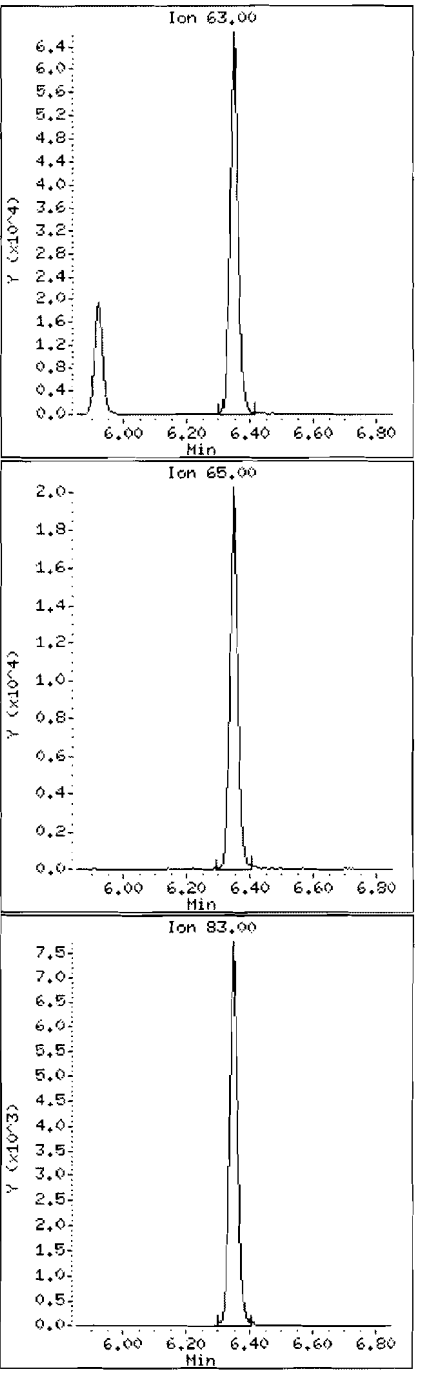
Column phase:

Column diameter: 0.18

11 1,1-dichloroethane

Concentration: 112.68 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

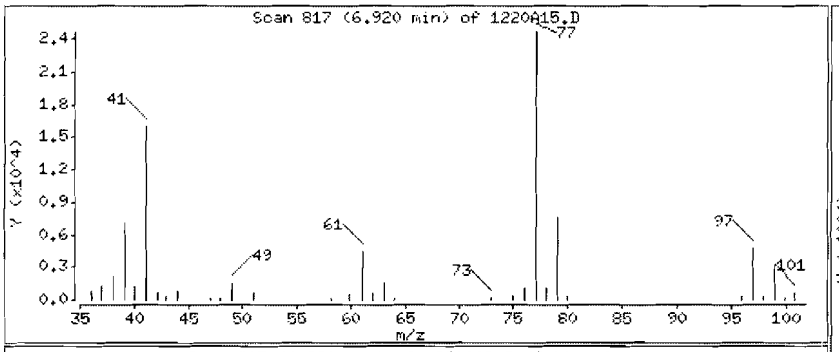
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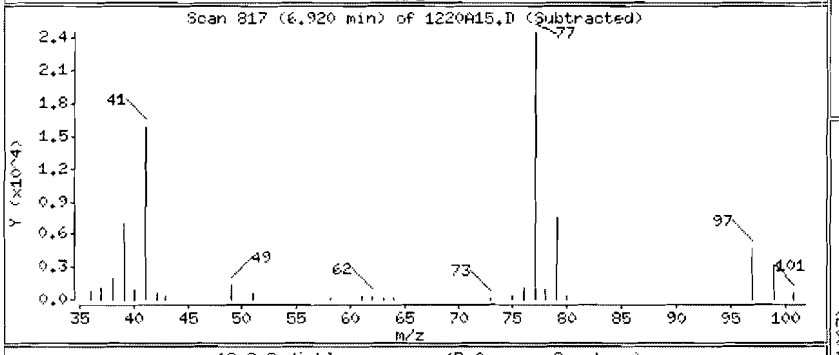
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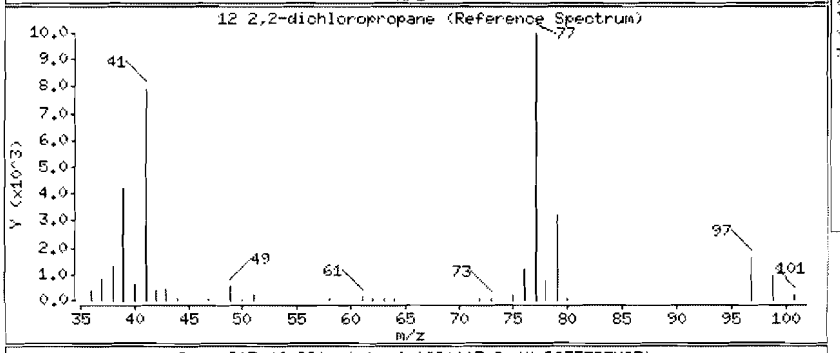
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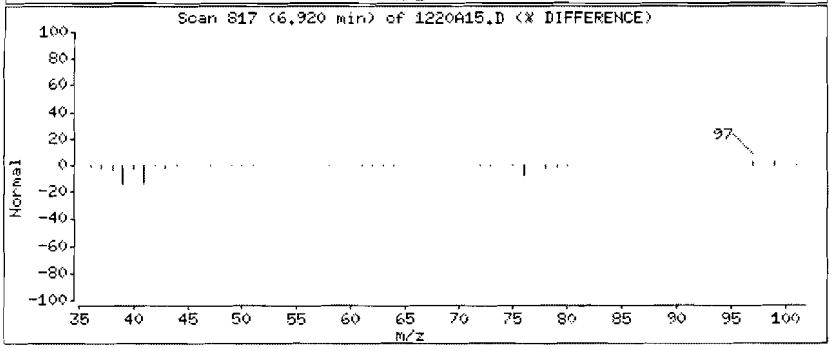
12 2,2-dichloropropane

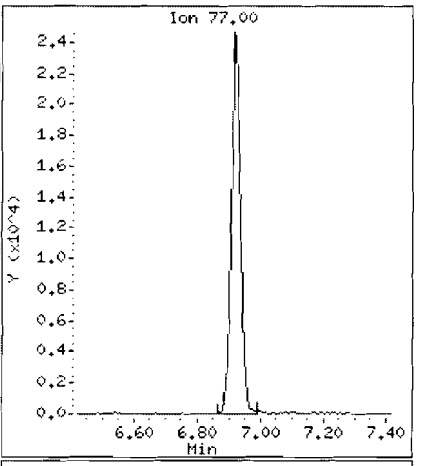
Concentration: 107.71 ngs

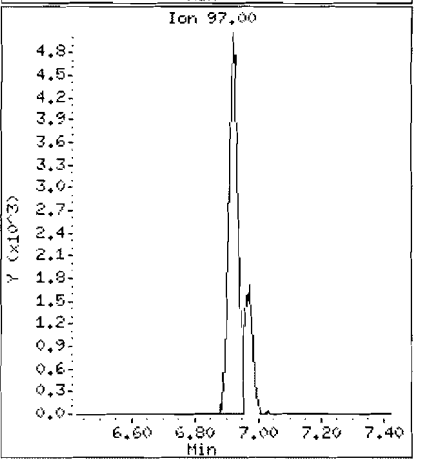












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

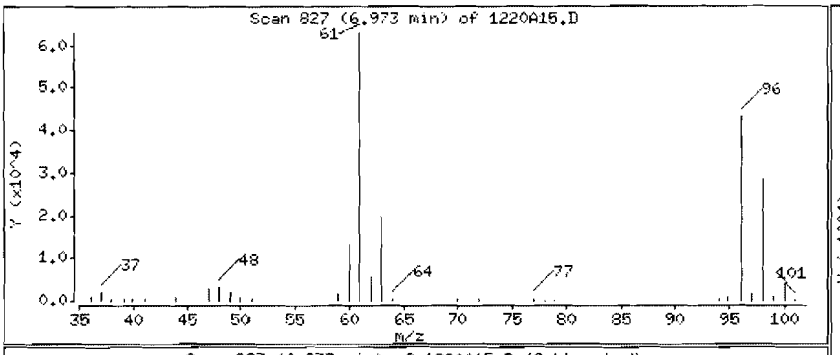
Operator: kl

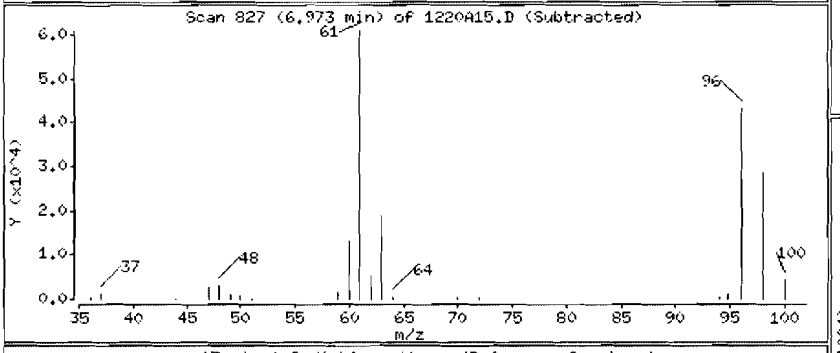
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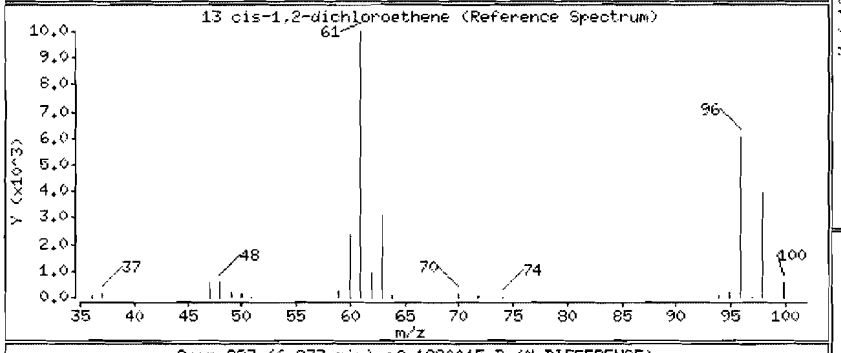
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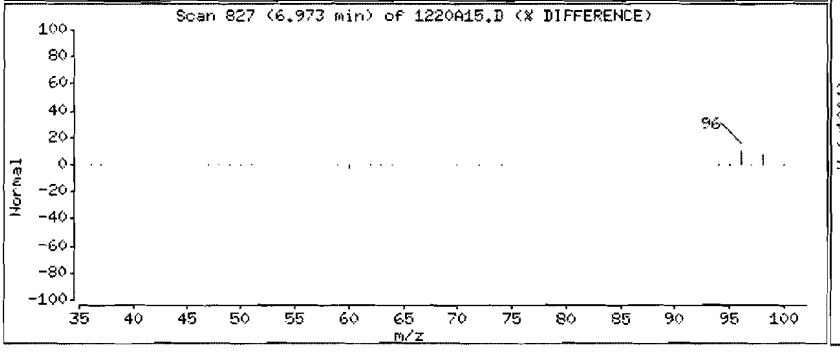
13 cis-1,2-dichloroethene

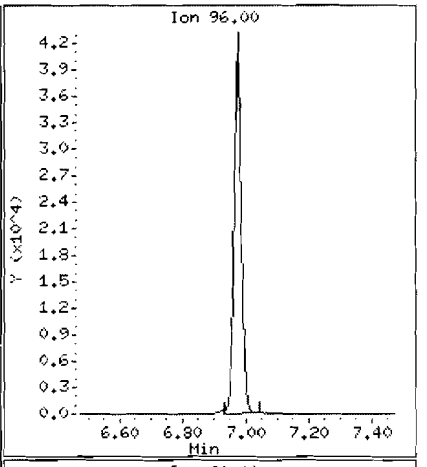
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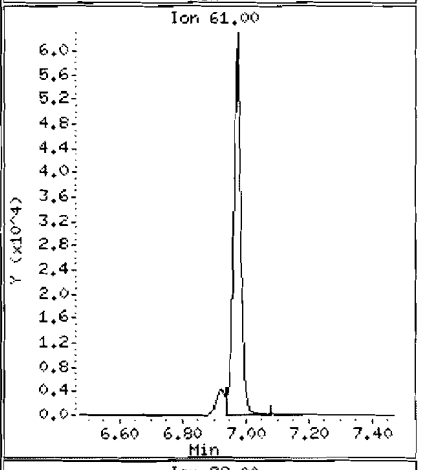


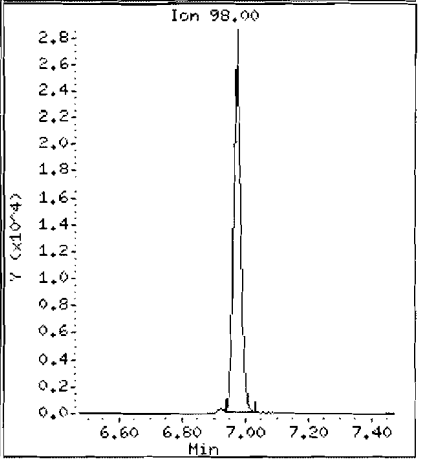












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31.25,,c

Purge Volume: 25.0

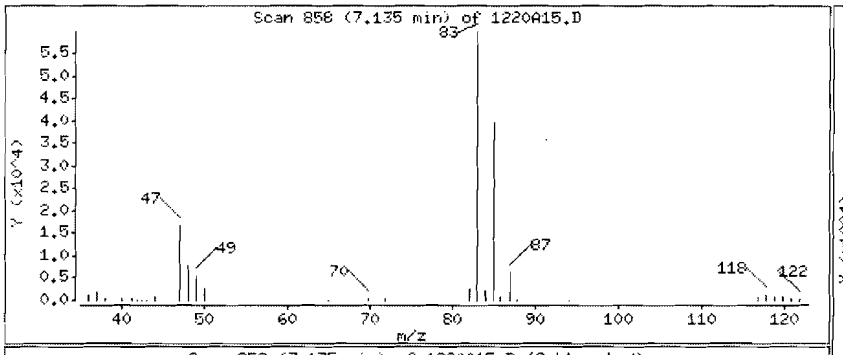
Operator: kl

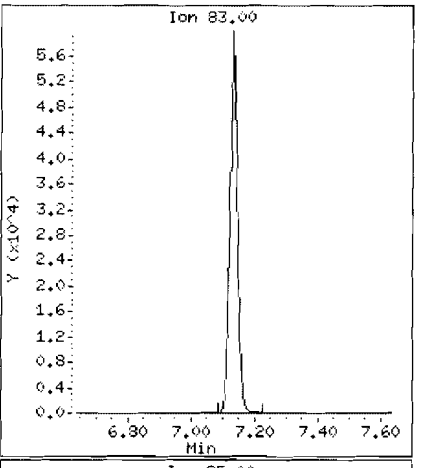
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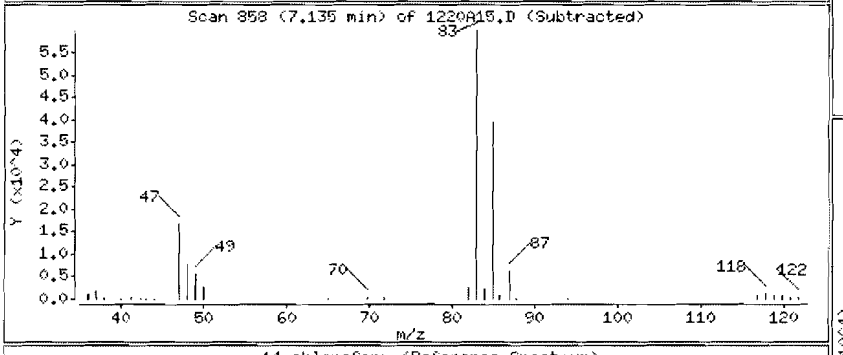
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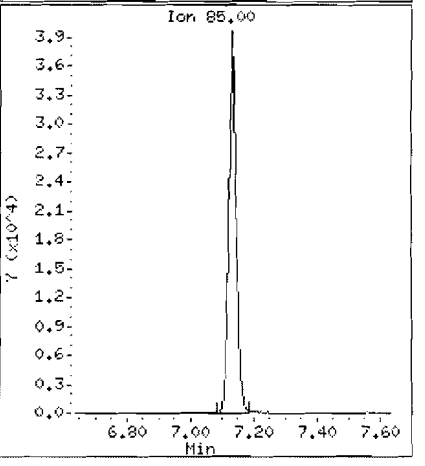
14 chloroform

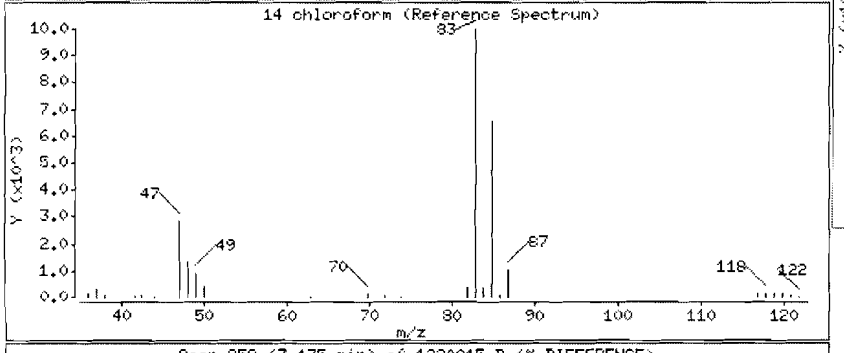
Concentration: 115.62 ngs

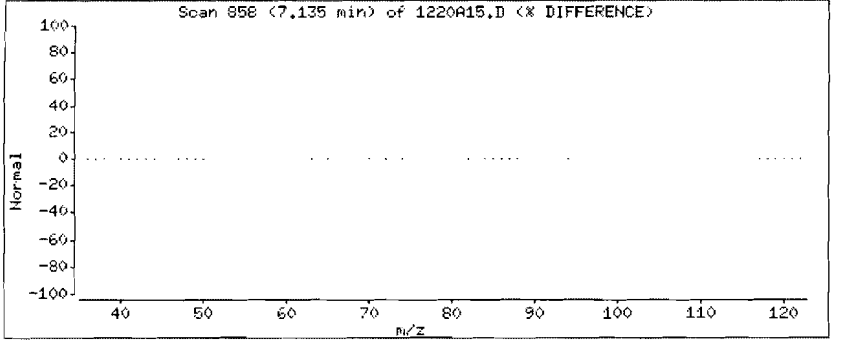












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

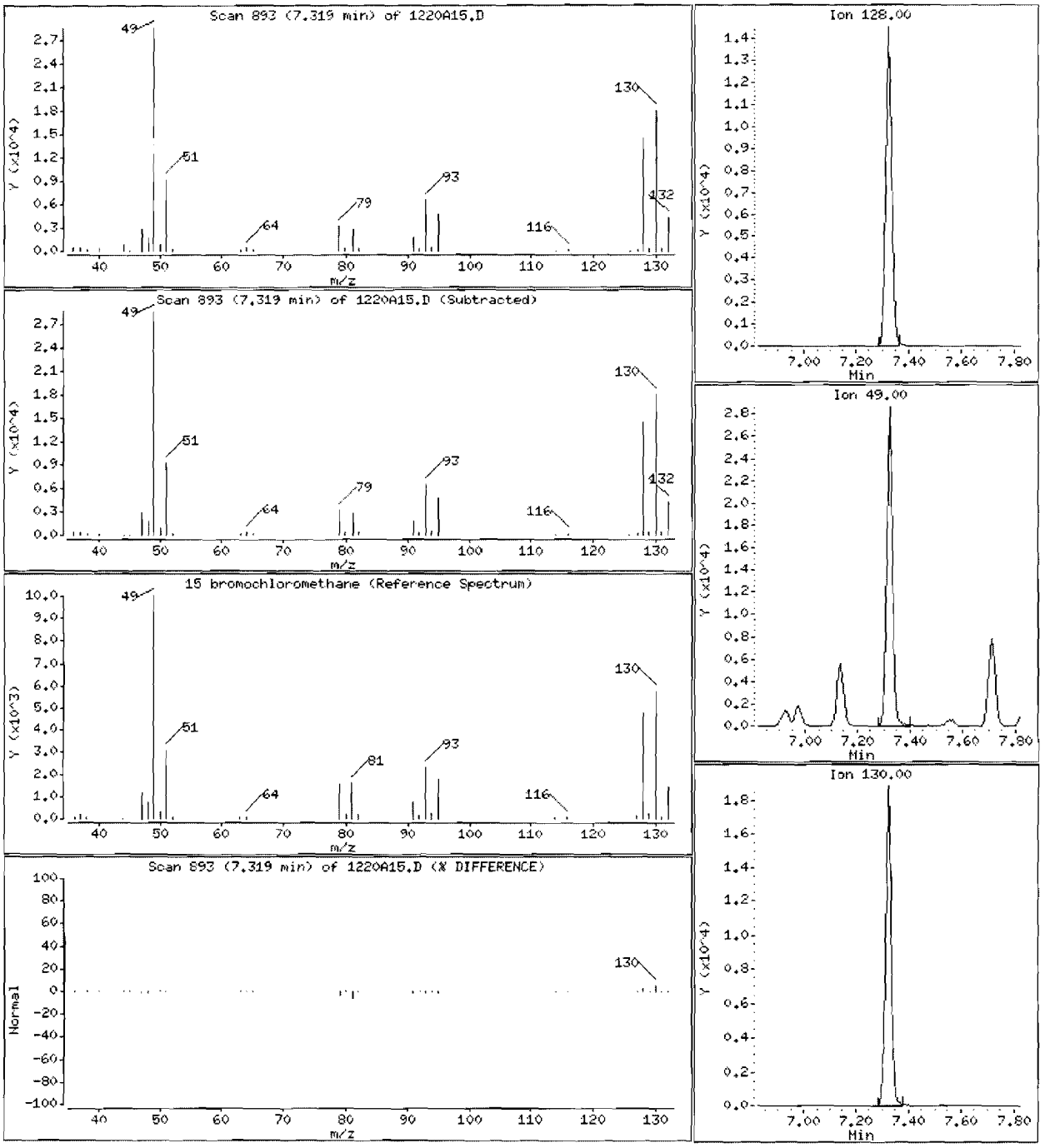
Operator: kl

Column phase:

Column diameter: 0.18

15 bromochloromethane

Concentration: 113.95 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

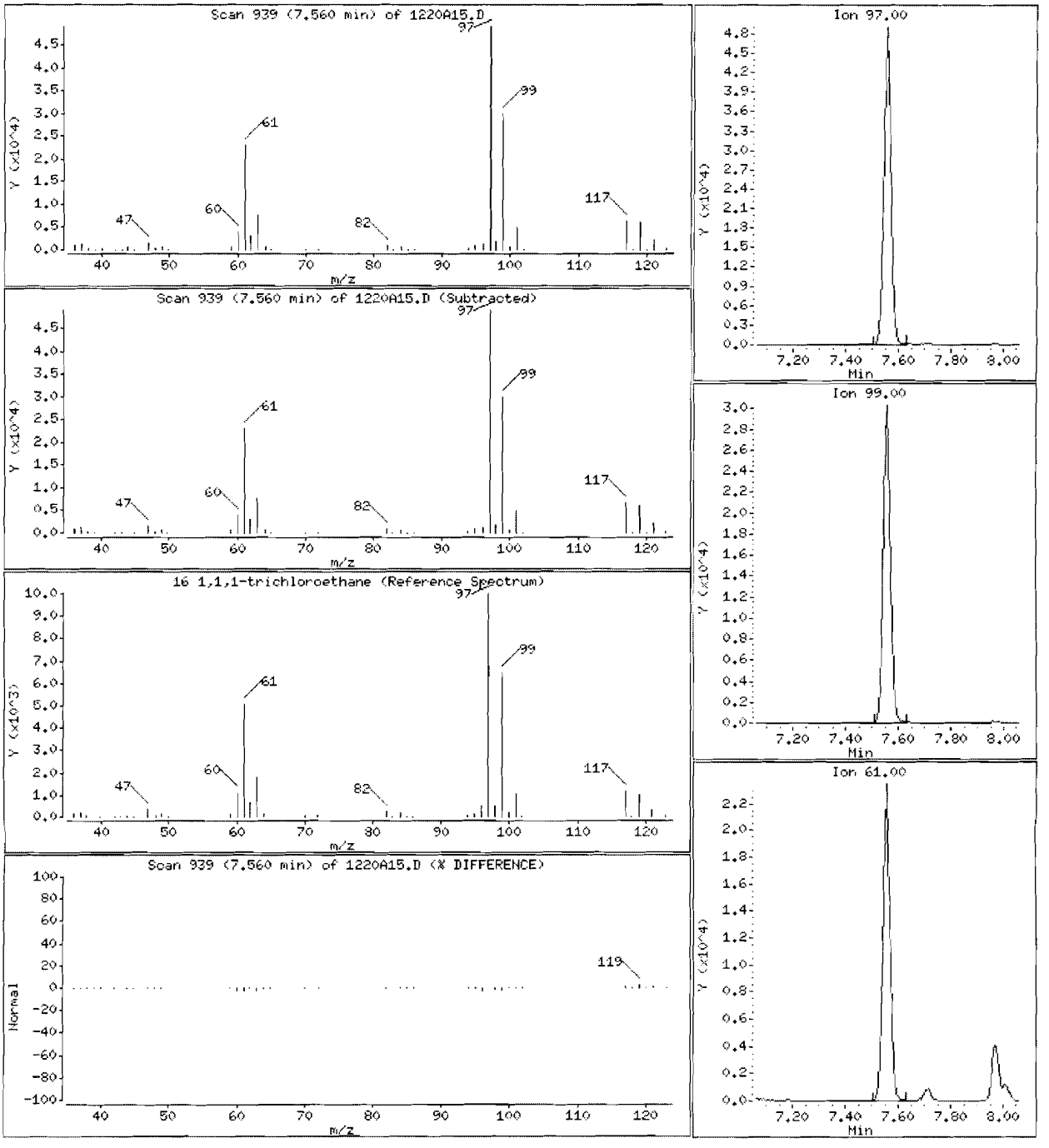
Operator: kl

Column phase:

Column diameter: 0.18

16 1,1,1-trichloroethane

Concentration: 117.45 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

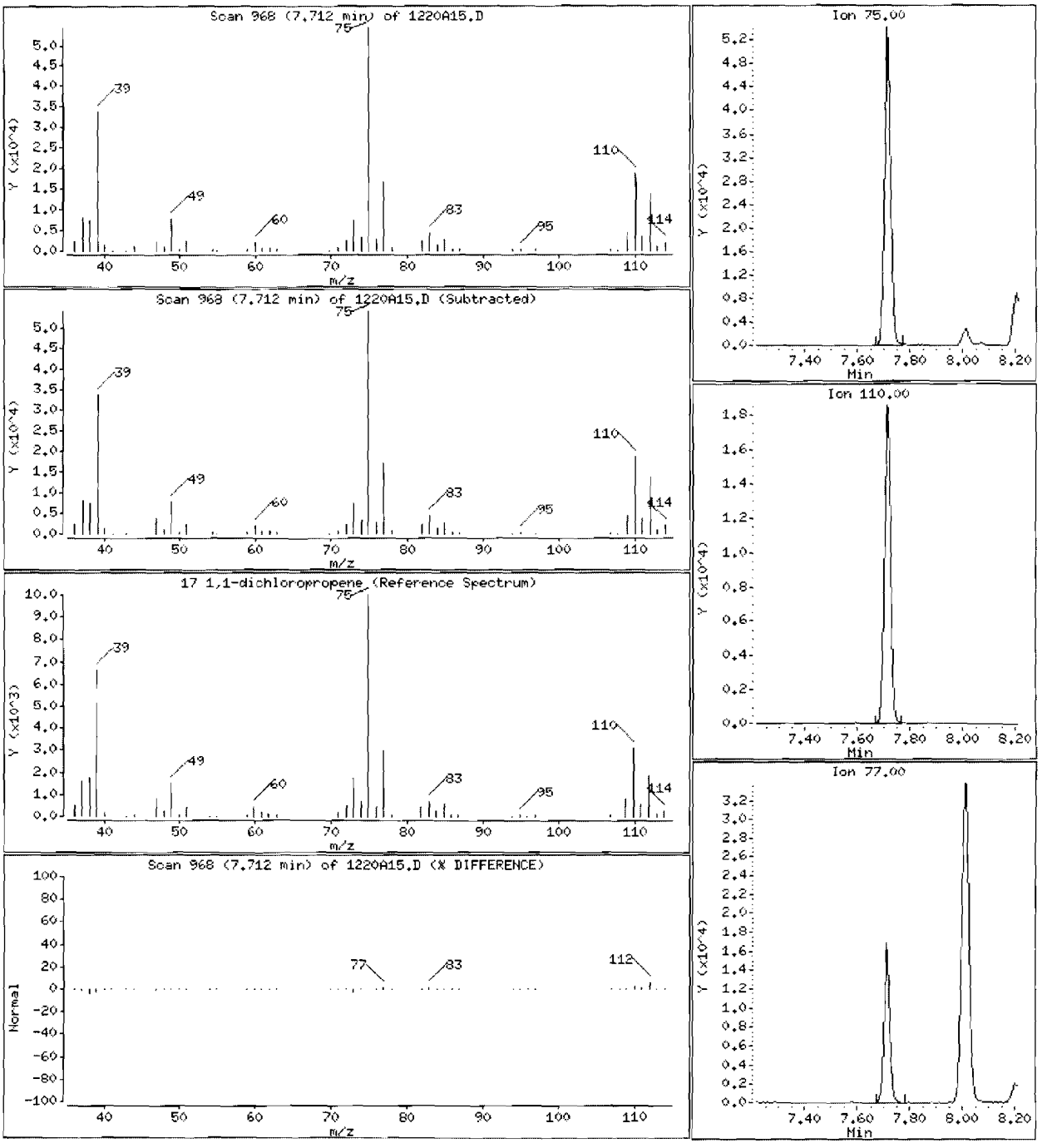
Operator: kl

Column phase:

Column diameter: 0.18

17 1,1-dichloropropene

Concentration: 118.04 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

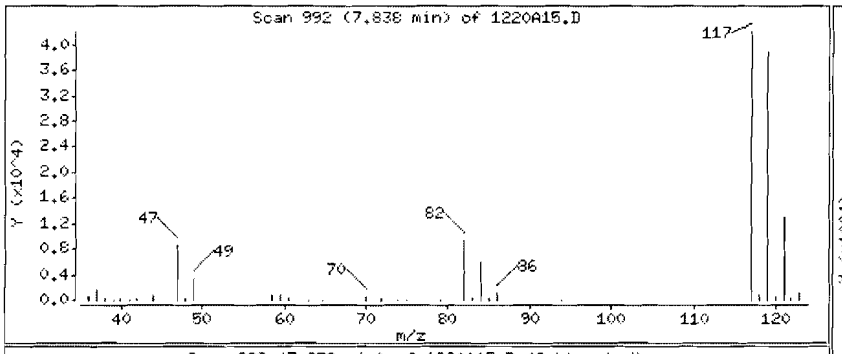
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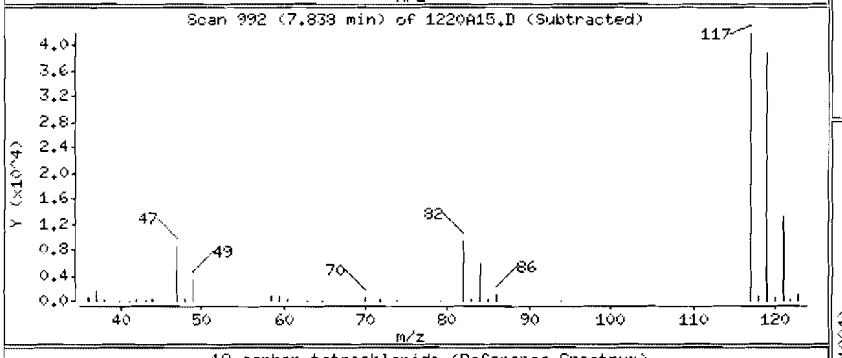
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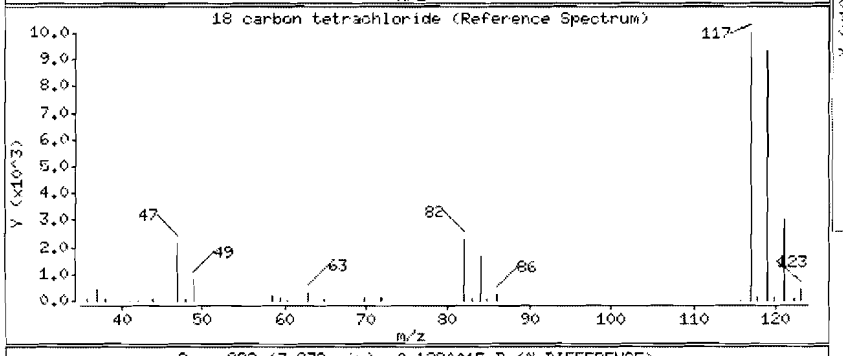
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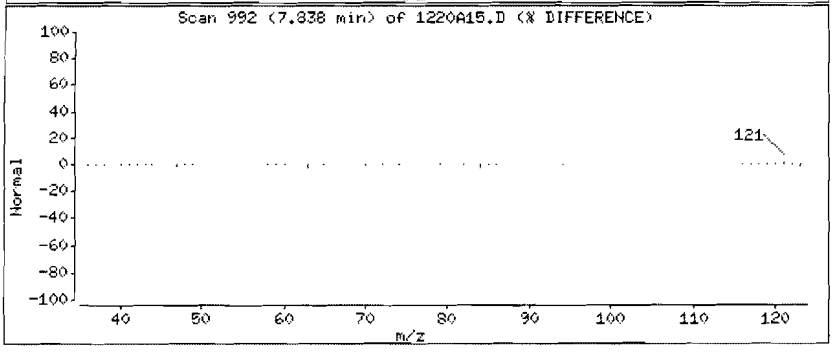
18 carbon tetrachloride

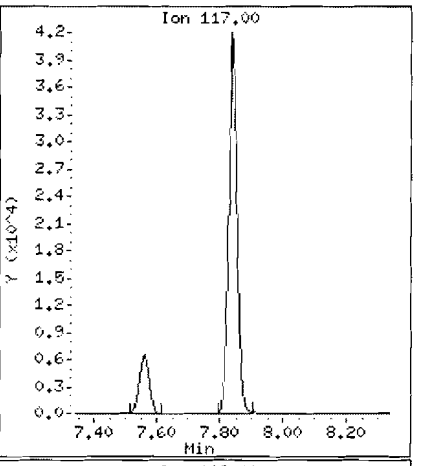
Concentration: 119.64 ngs

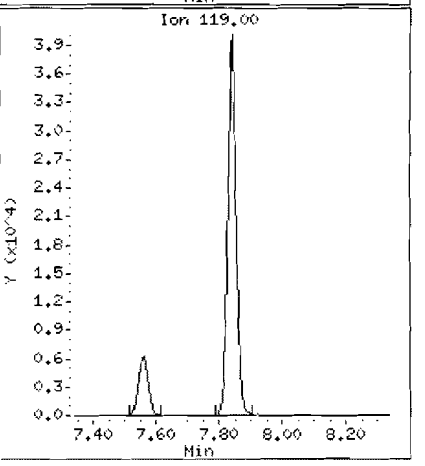












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

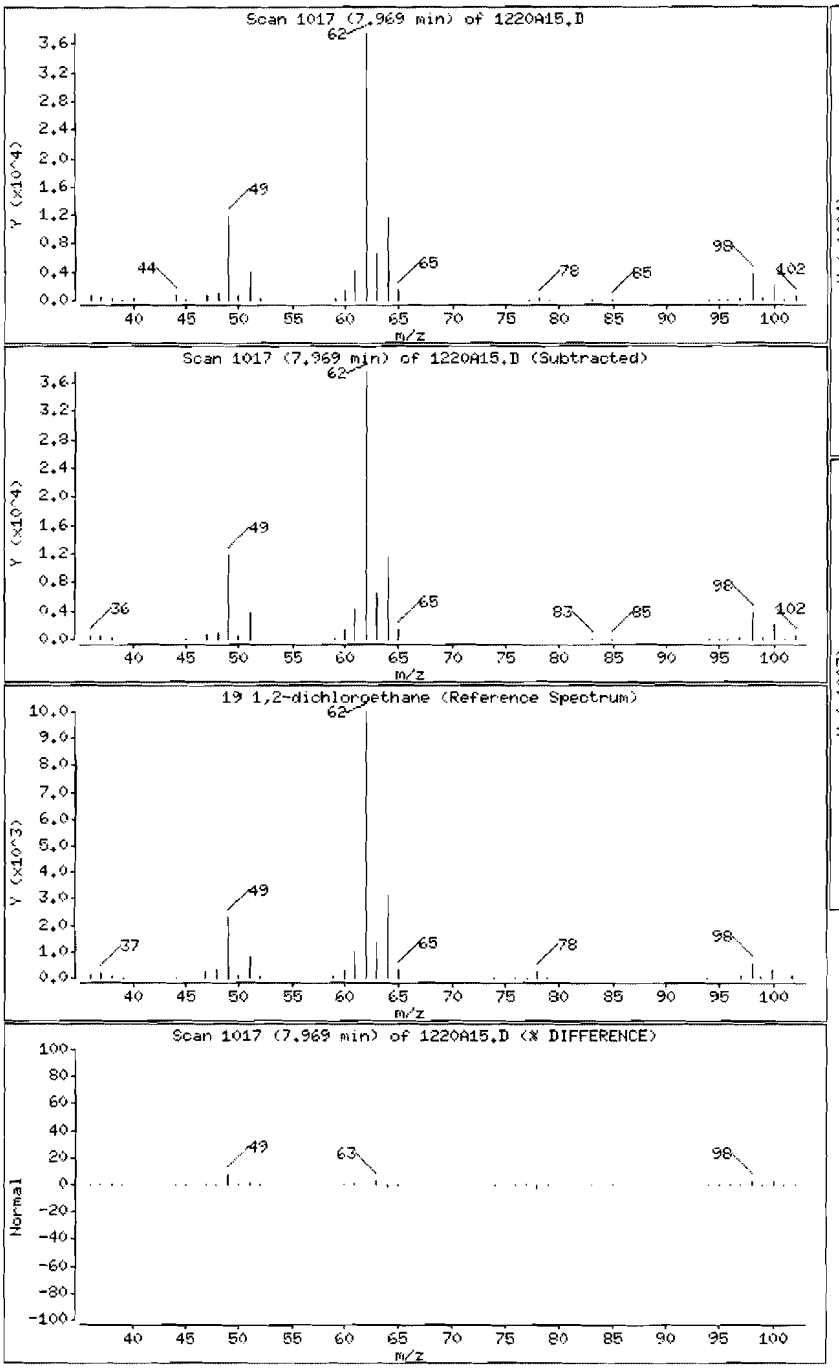
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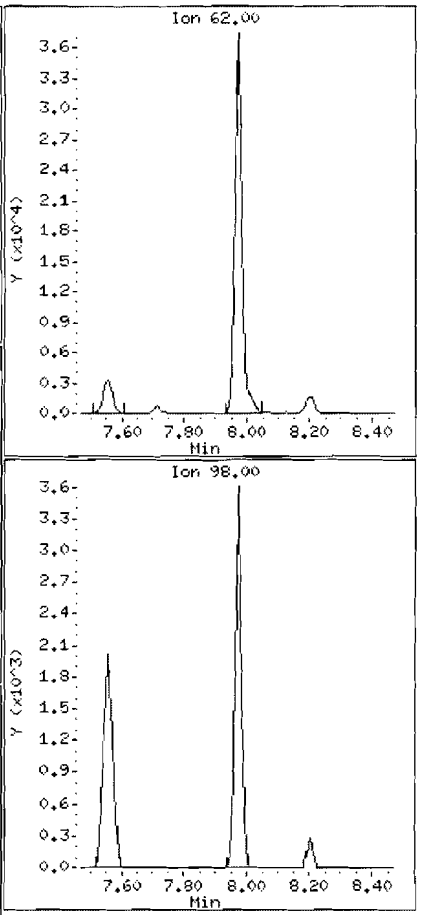
Column phase:

Column diameter: 0.18

19 1,2-dichloroethane

Concentration: 107.67 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

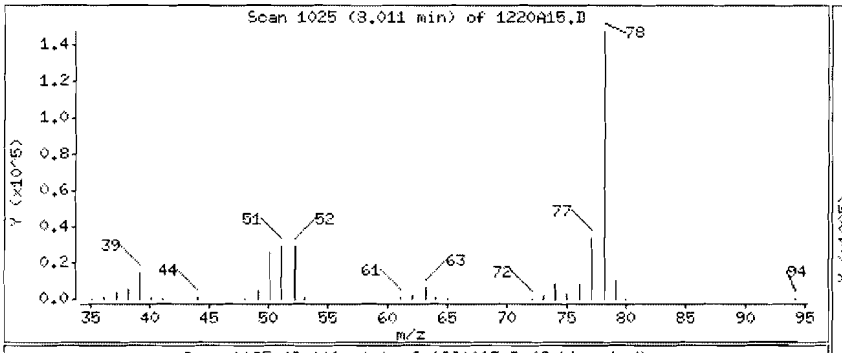
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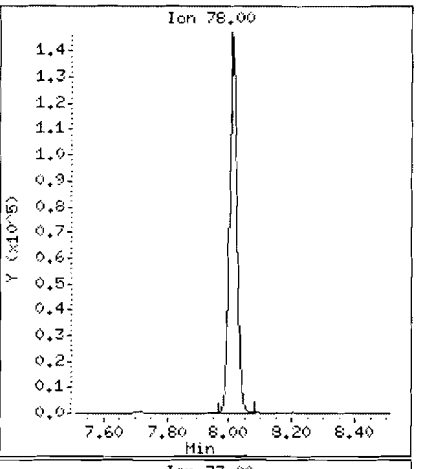
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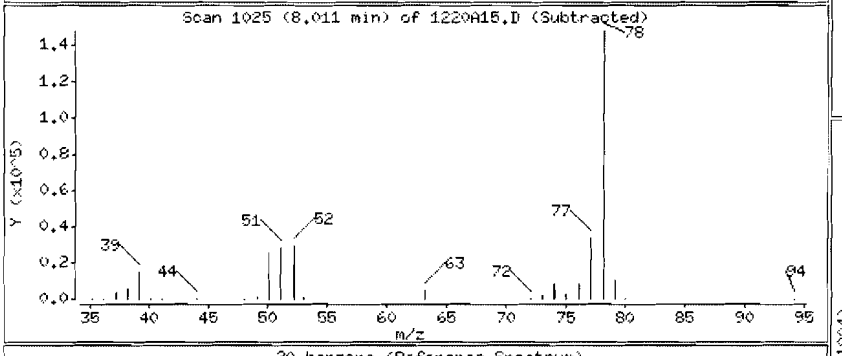
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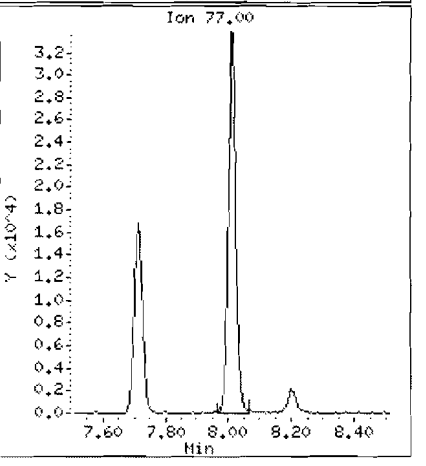
20 benzene

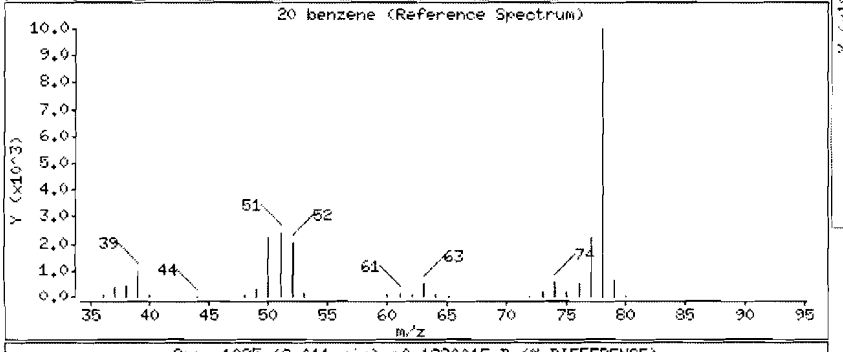
Concentration: 112.16 ngs

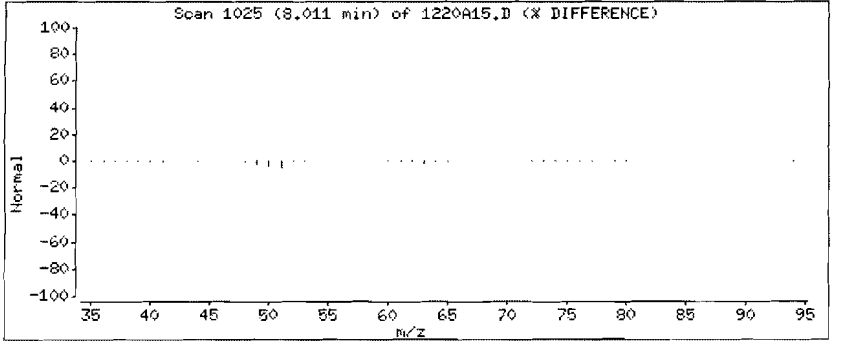












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

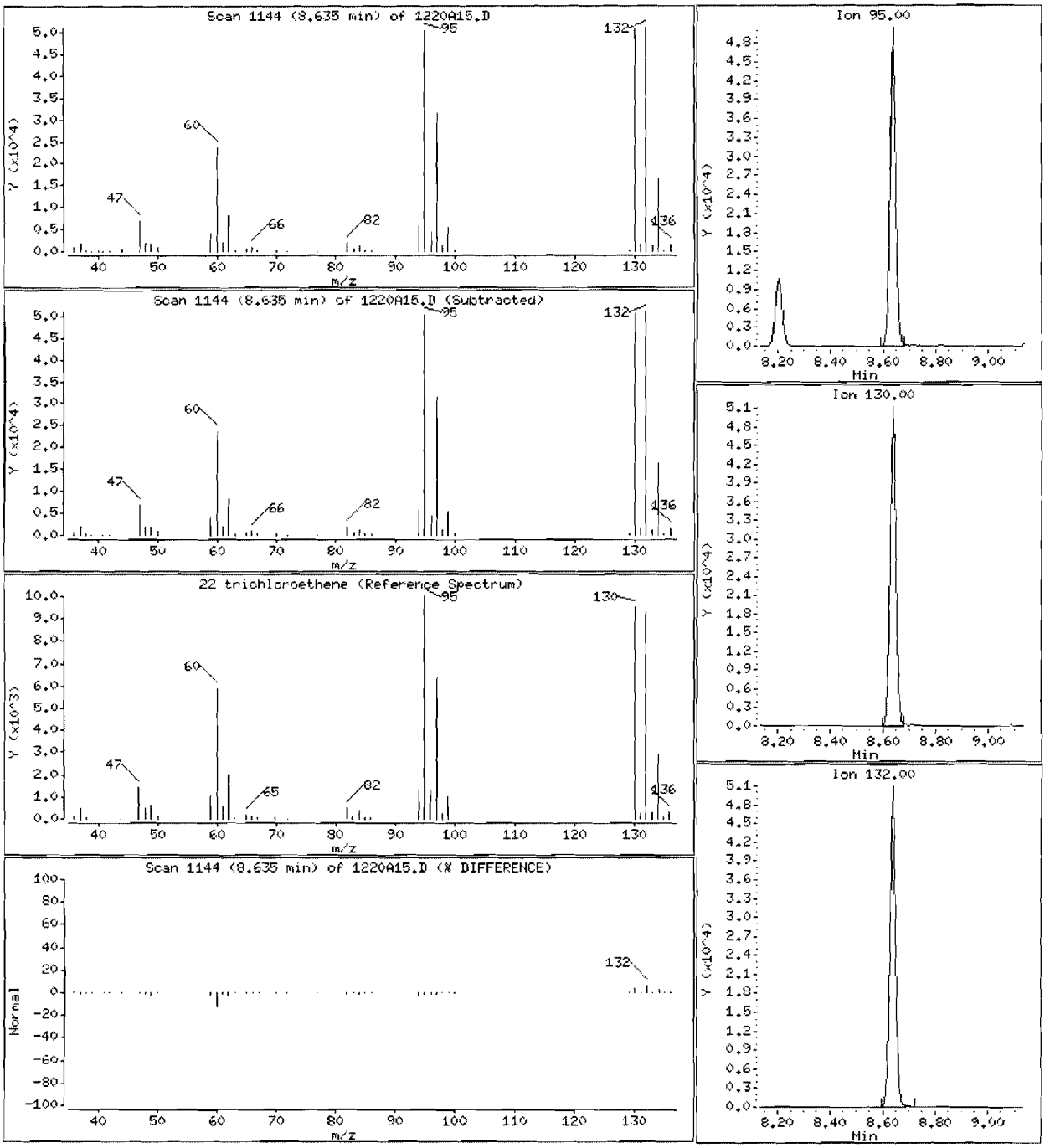
Operator: kl

Column phase:

Column diameter: 0.18

22 trichloroethene

Concentration: 132.48 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

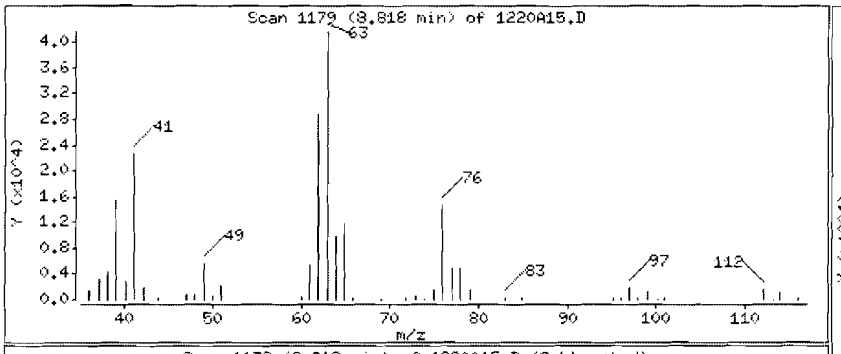
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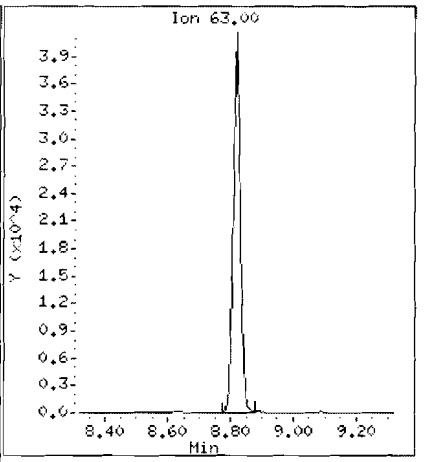
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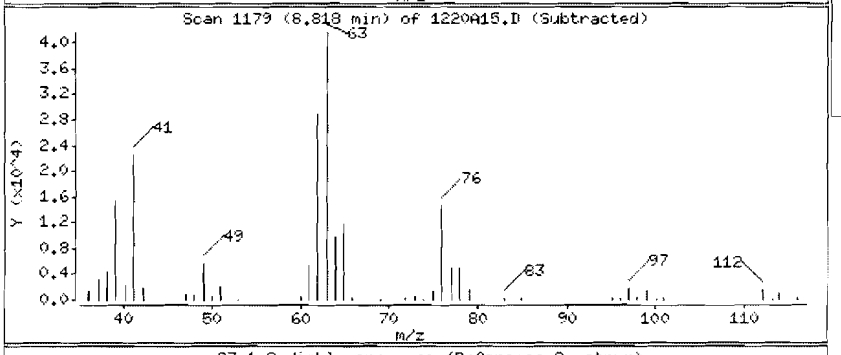
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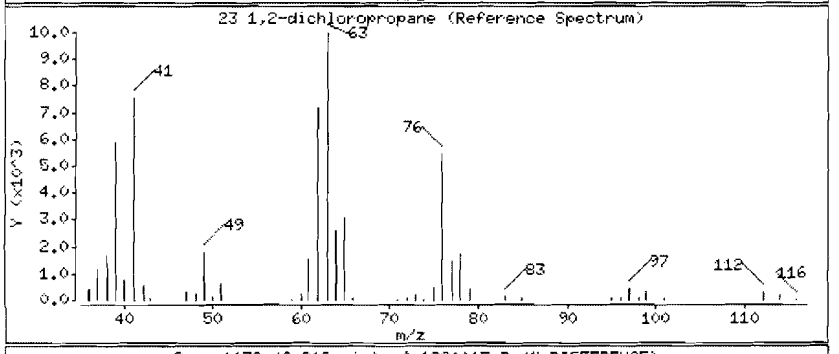
23 1,2-dichloropropane

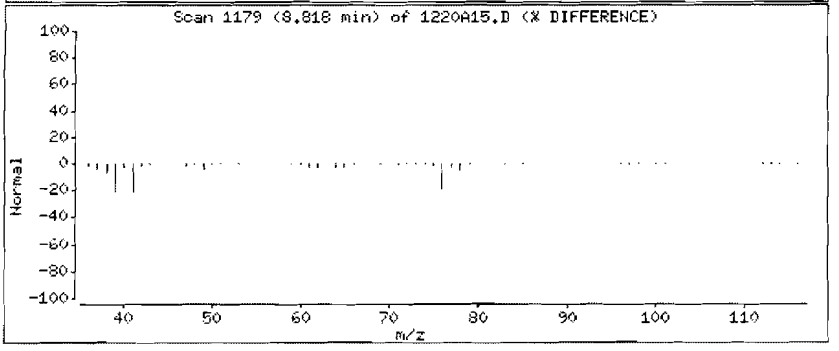
Concentration: 113.77 ngs











Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

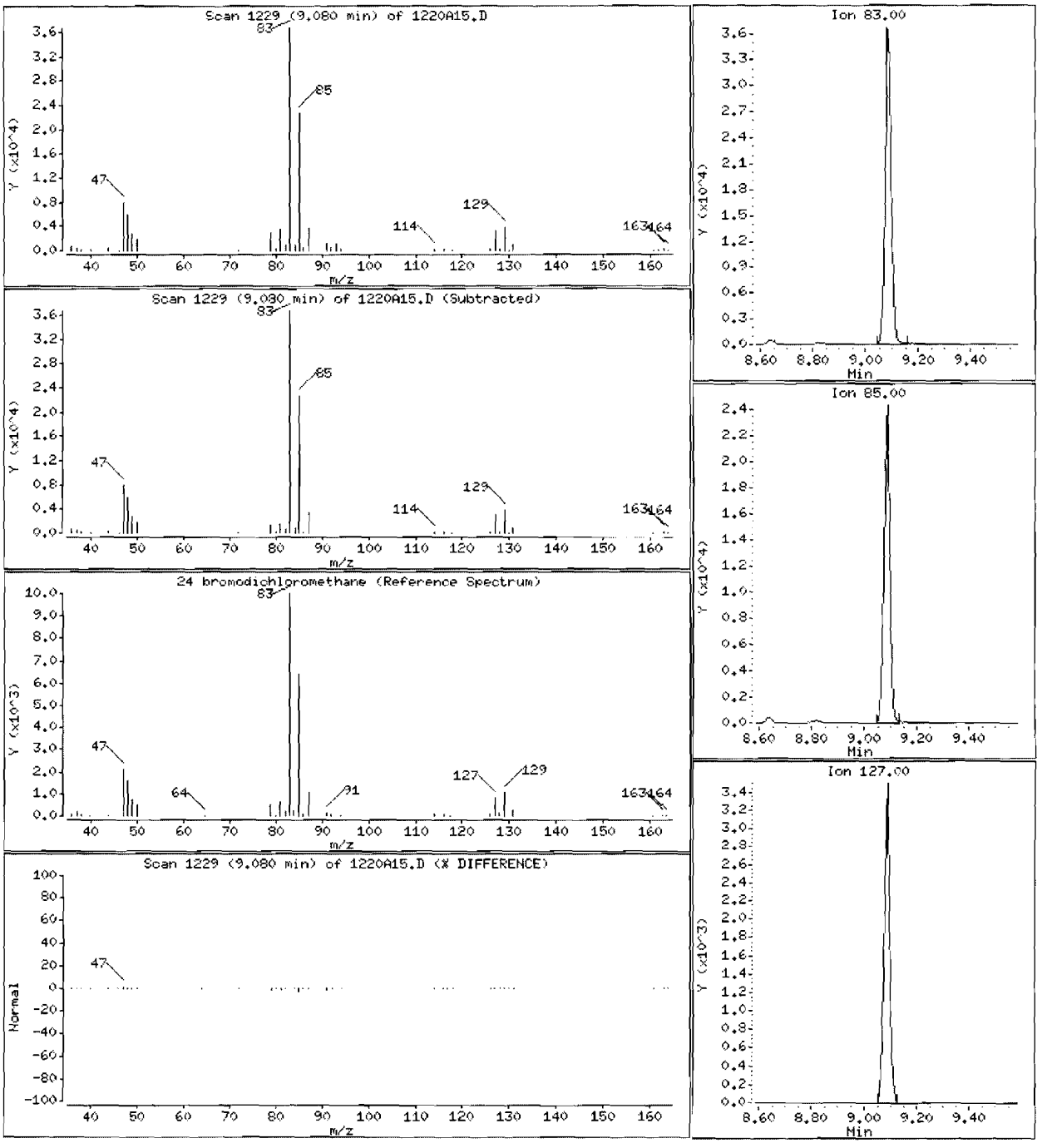
Operator: kl

Column phase:

Column diameter: 0.18

24 bromodichloromethane

Concentration: 105.97 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

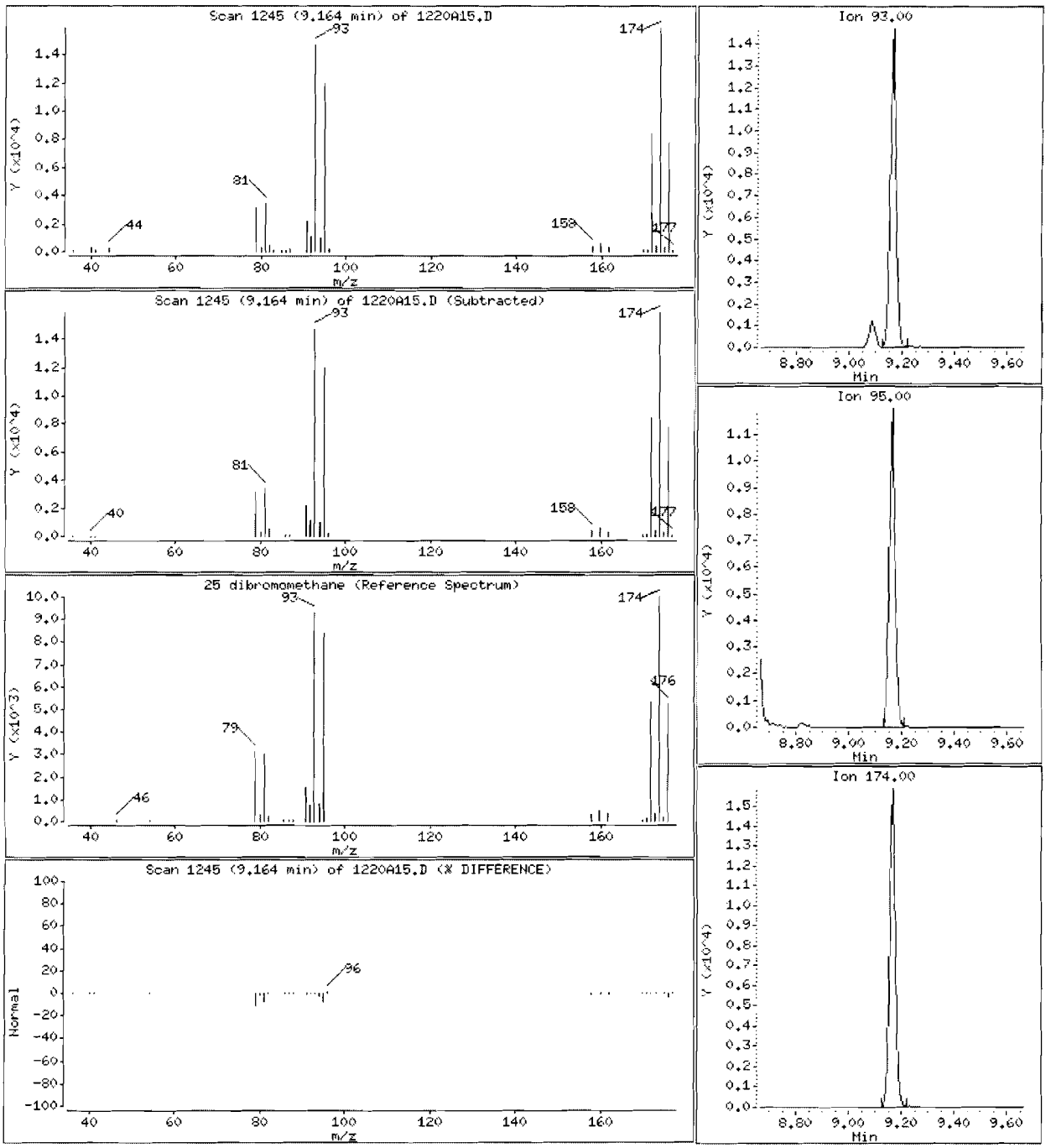
Operator: kl

Column phase:

Column diameter: 0.18

25 dibromomethane

Concentration: 104.95 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31.25,,c

Purge Volume: 25.0

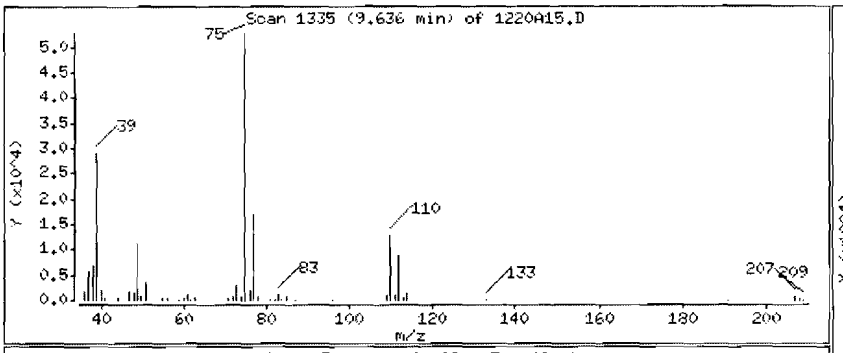
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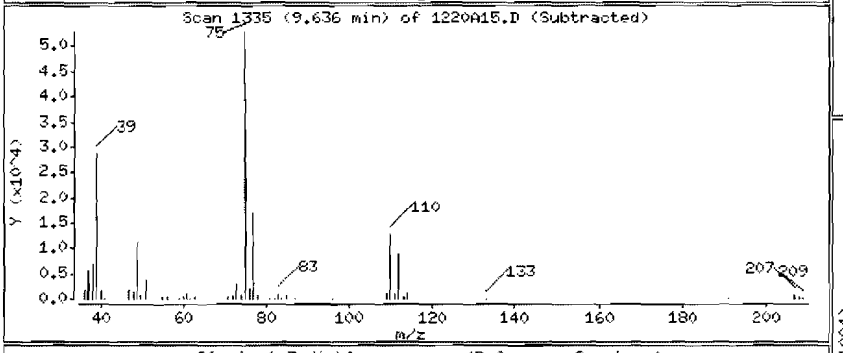
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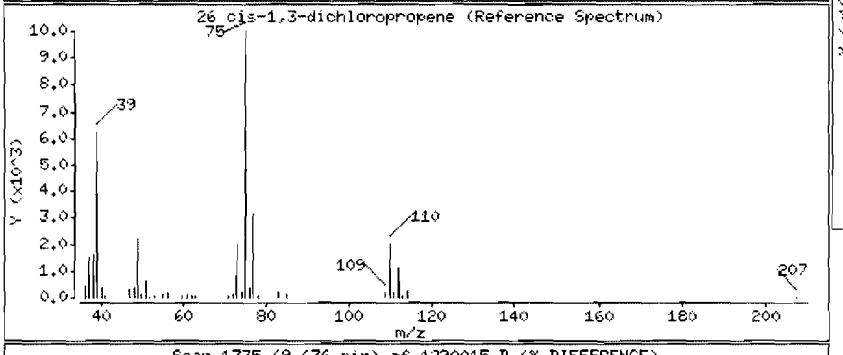
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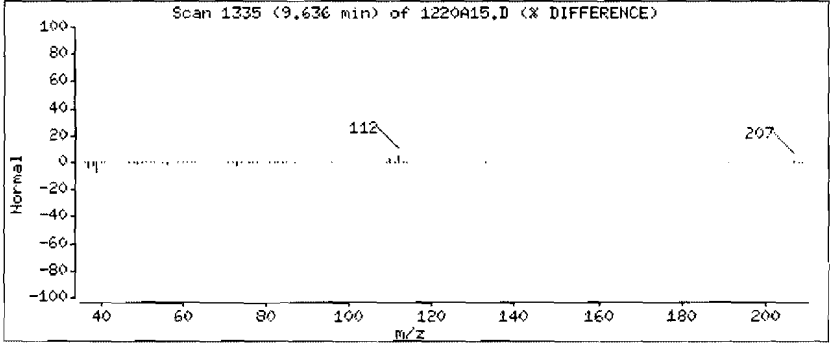
26 cis-1,3-dichloropropene

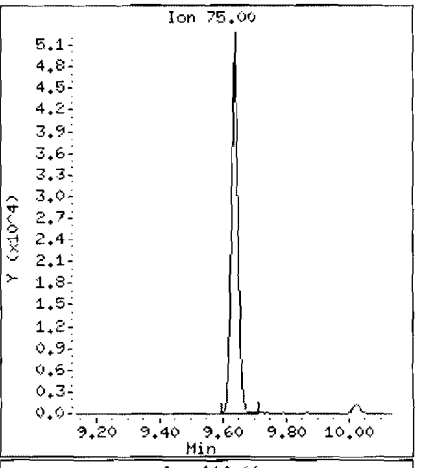
Concentration: 114.23 ngs

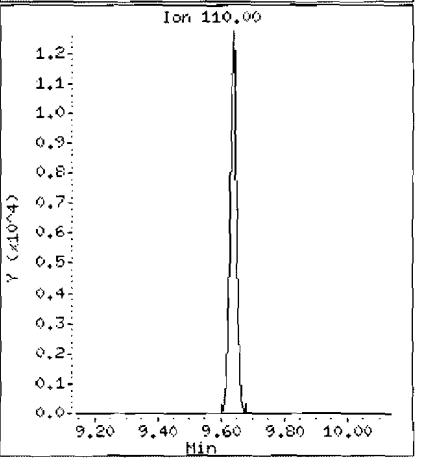












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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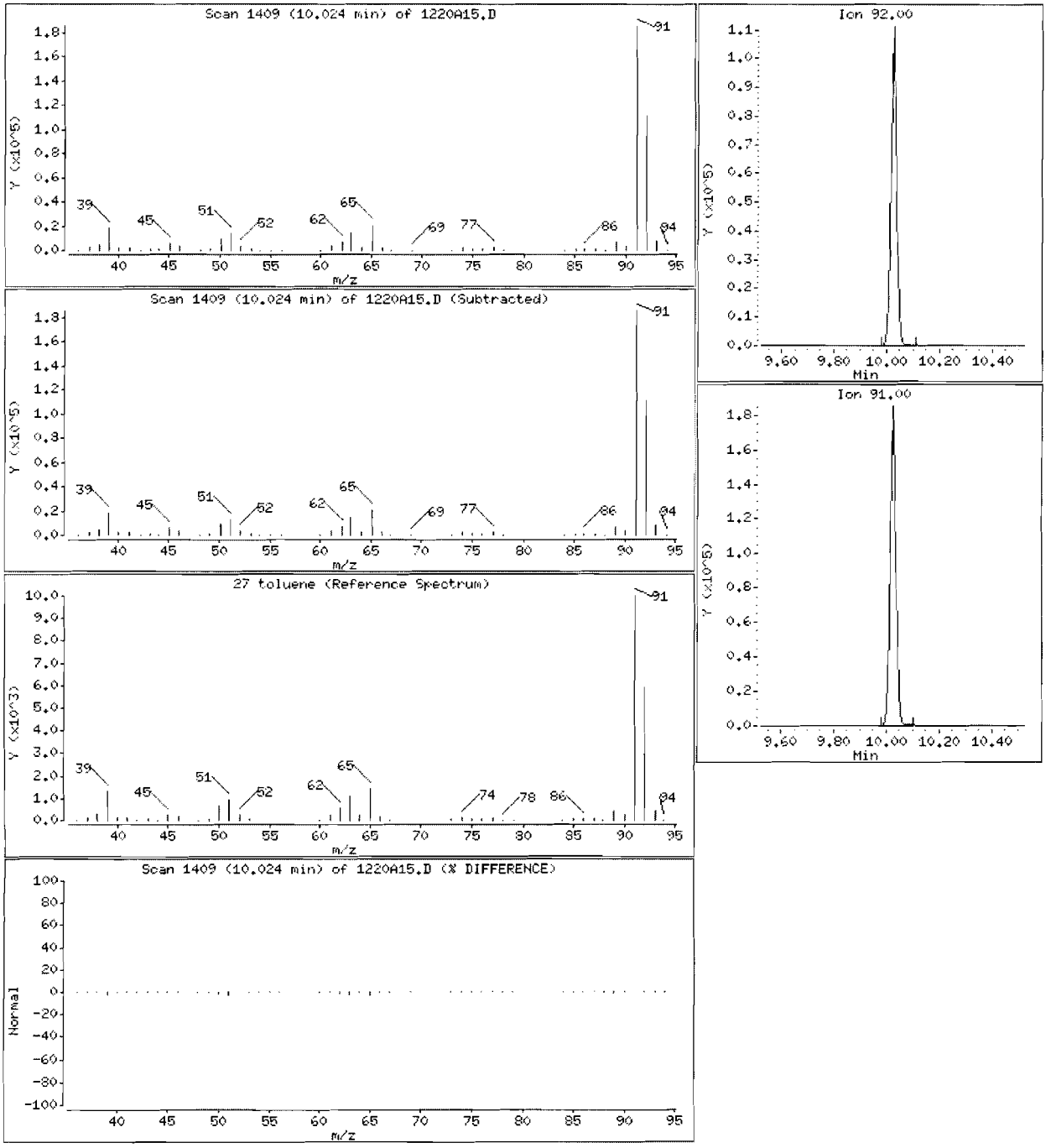
Operator: kl

Column phase:

Column diameter: 0.18

27 toluene

Concentration: 116.49 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

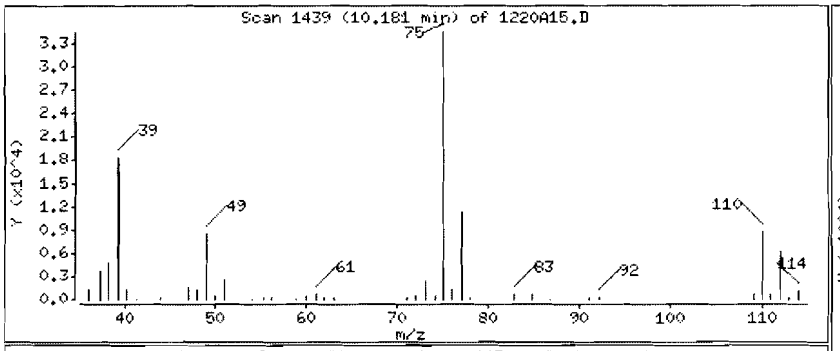
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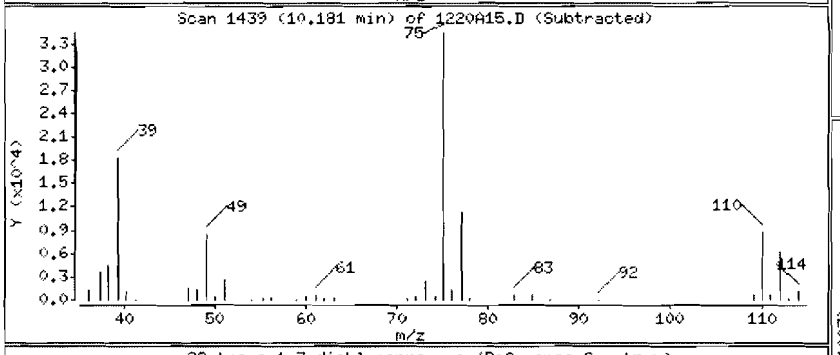
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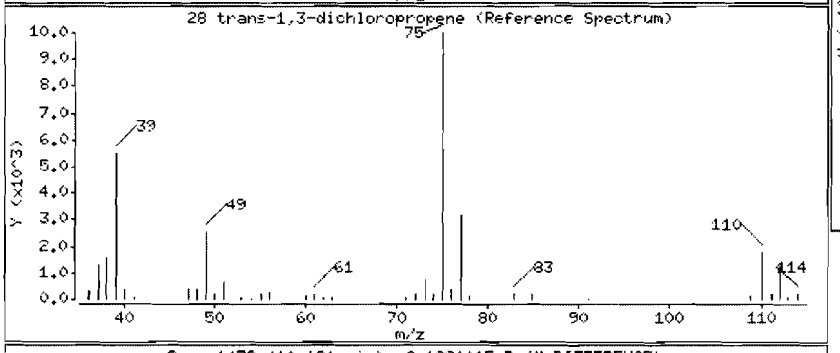
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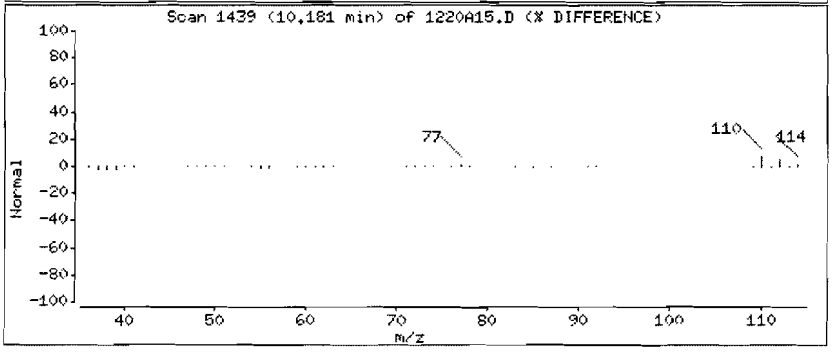
28 trans-1,3-dichloropropene

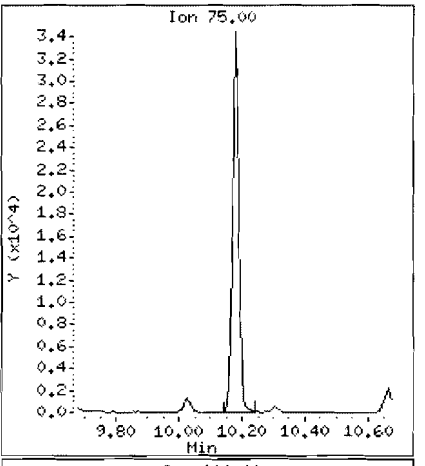
Concentration: 97.52 ngs

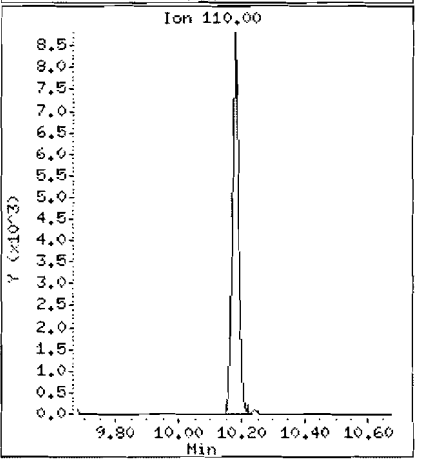












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

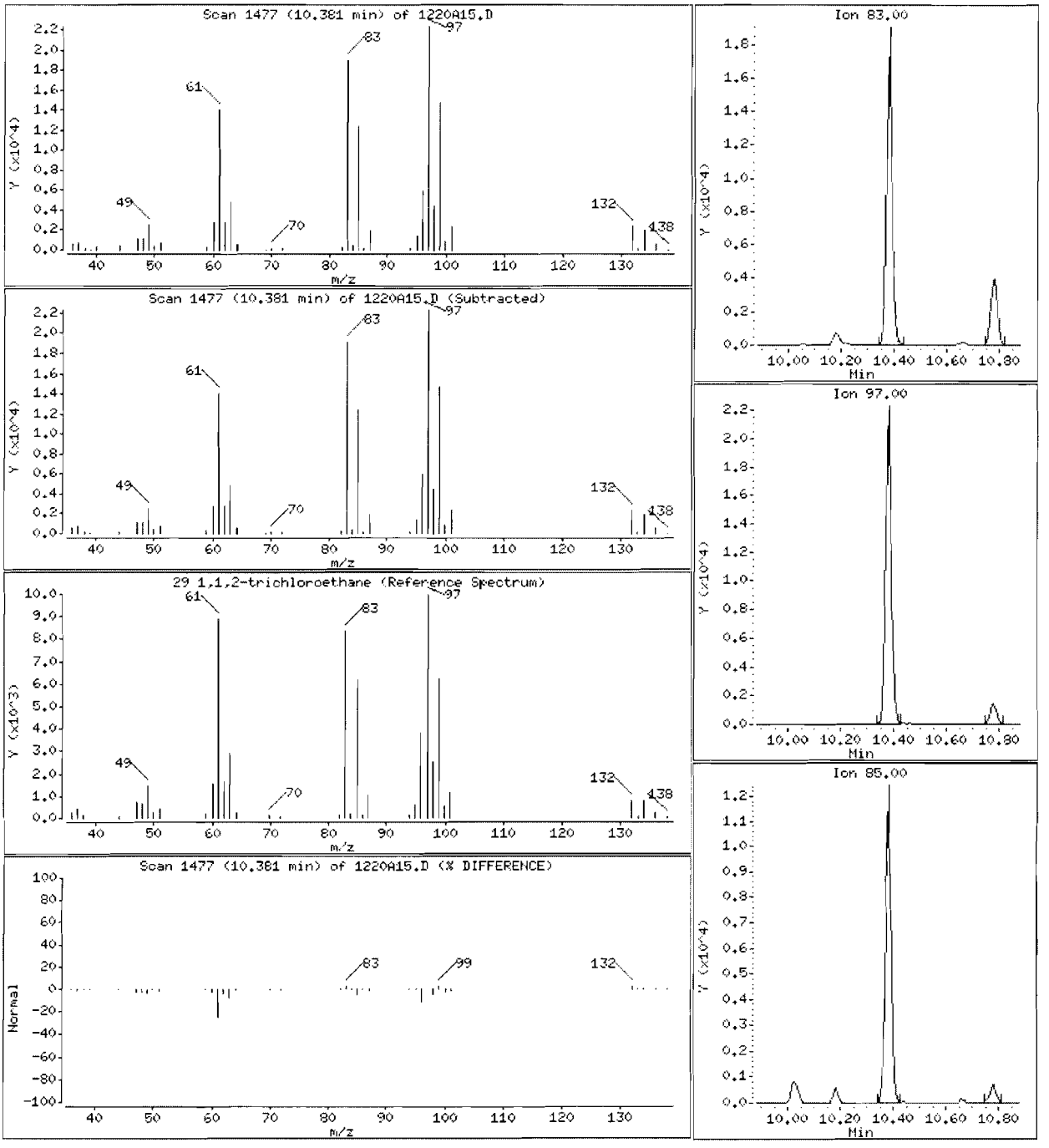
Operator: kl

Column phase:

Column diameter: 0.18

29 1,1,2-trichloroethane

Concentration: 107.85 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

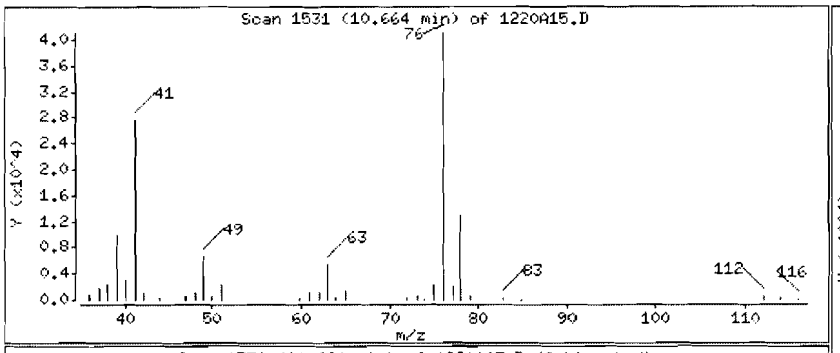
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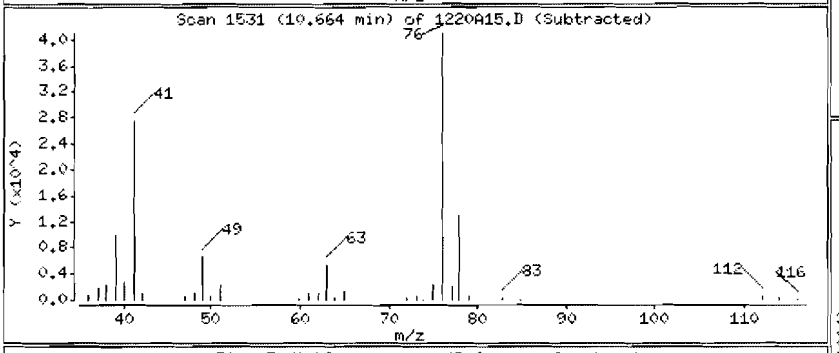
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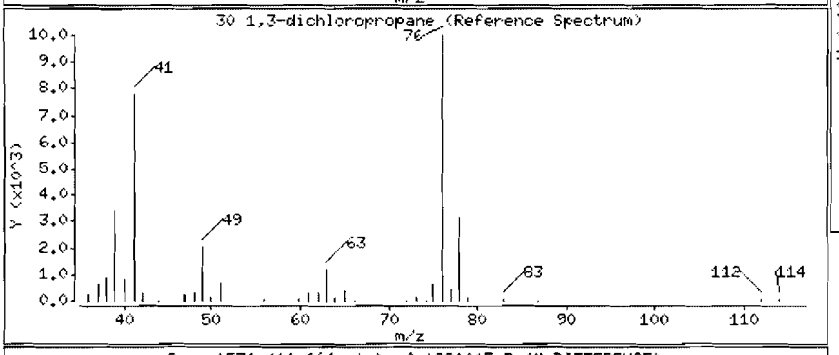
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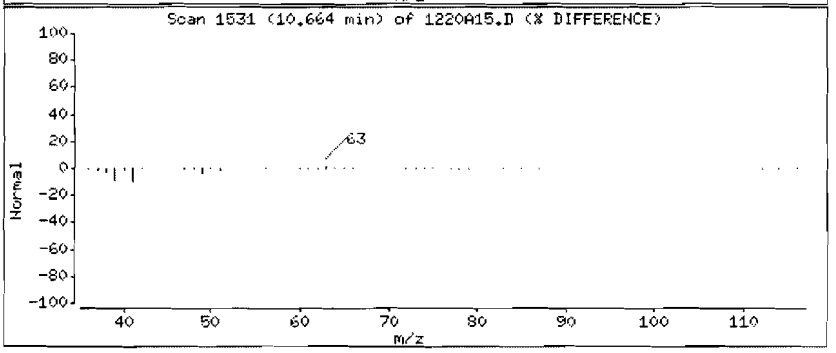
30 1,3-dichloropropane

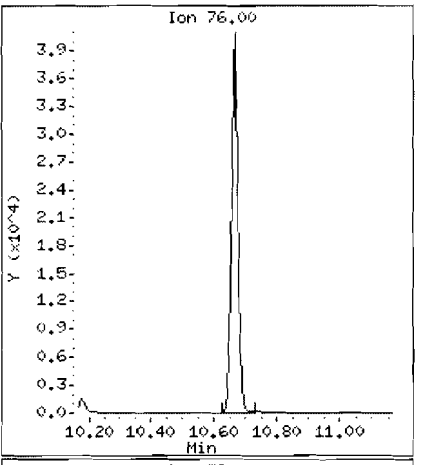
Concentration: 109.59 ngs

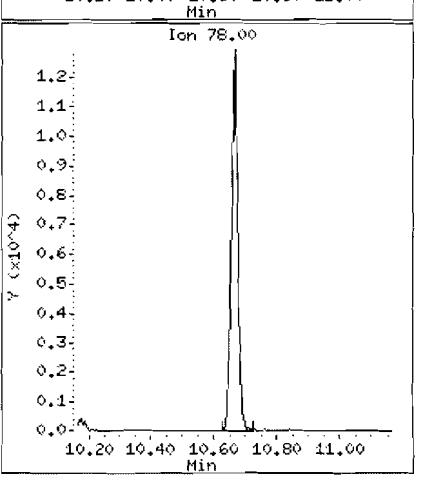












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

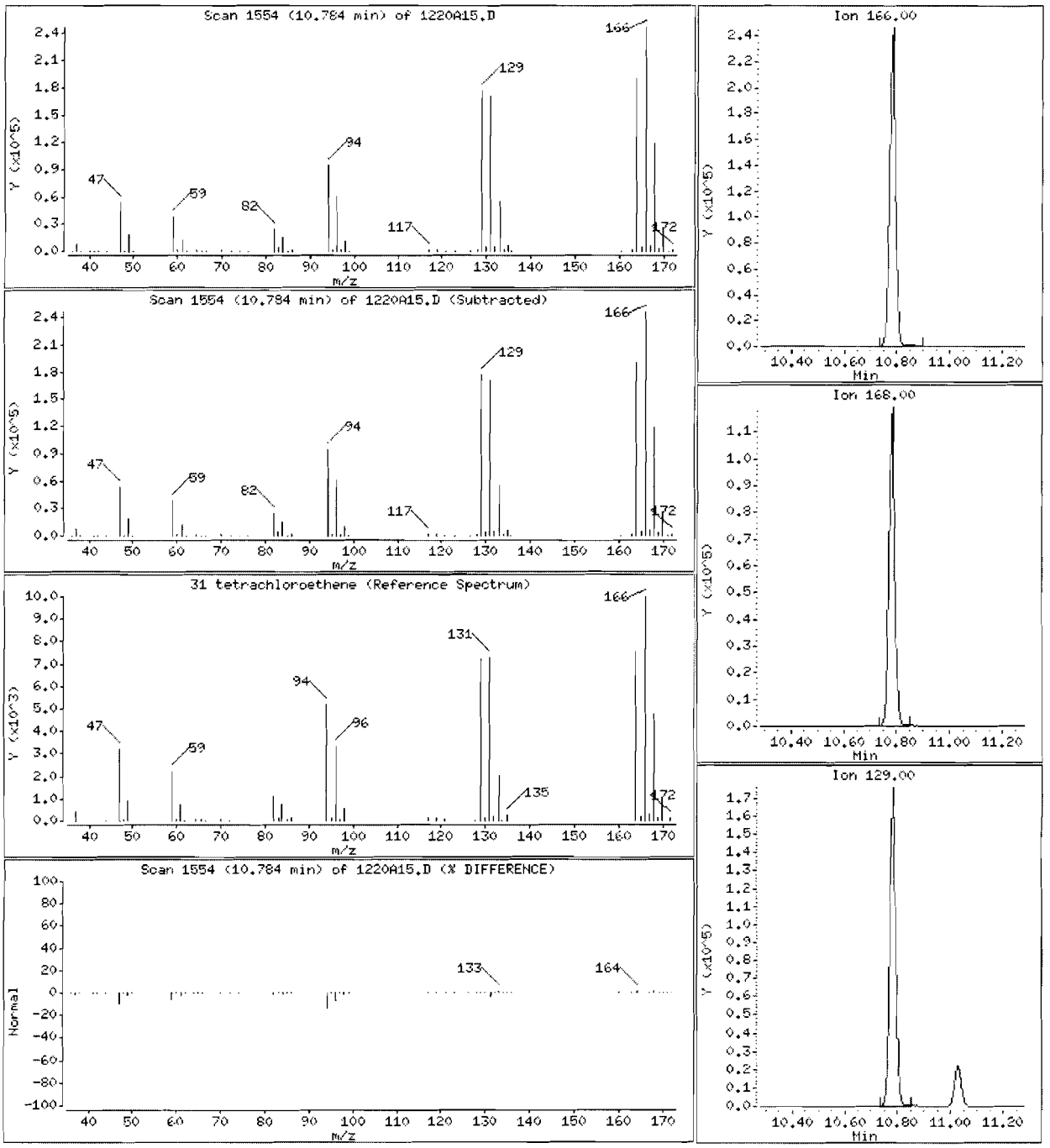
Operator: kl

Column phase:

Column diameter: 0.18

31 tetrachloroethene

Concentration: 536.16 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

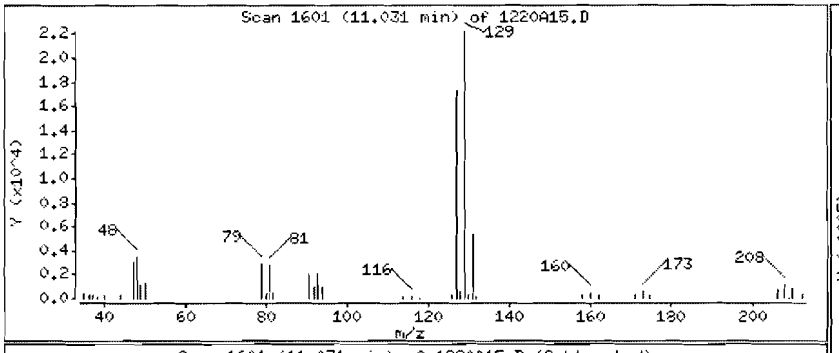
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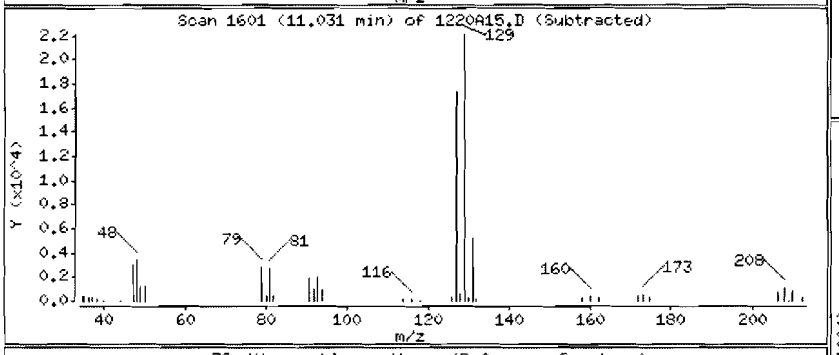
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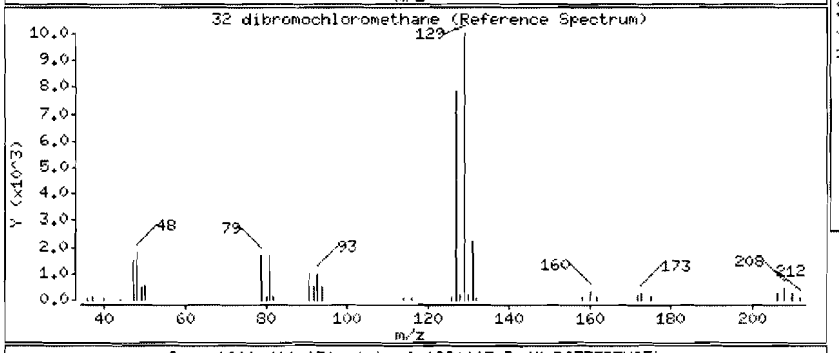
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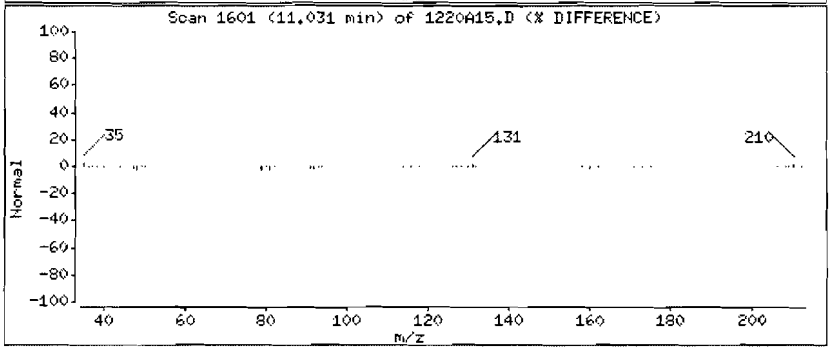
32 dibromochloromethane

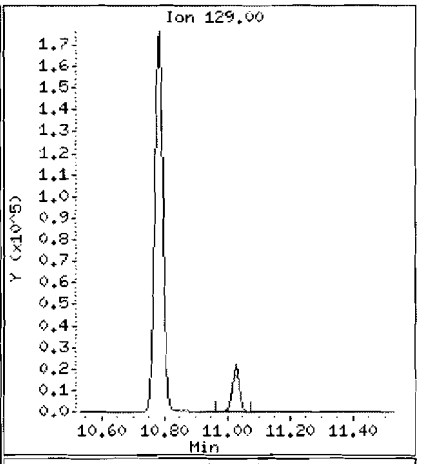
Concentration: 102.75 ngs

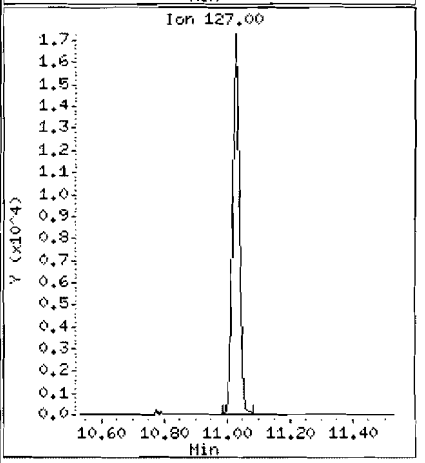












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

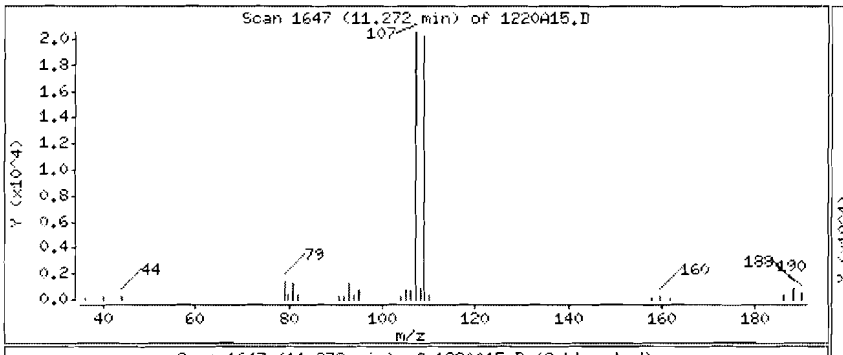
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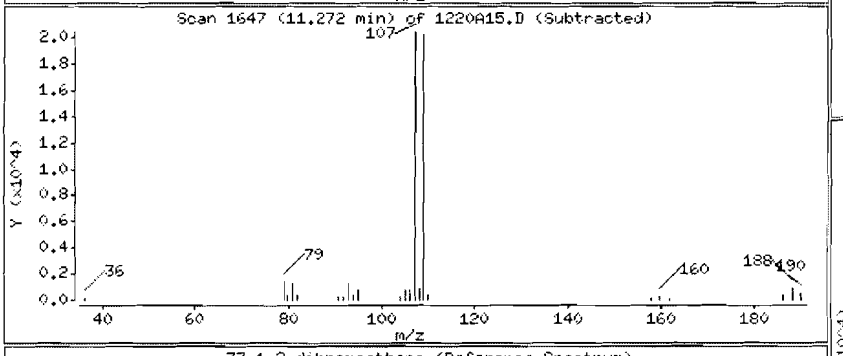
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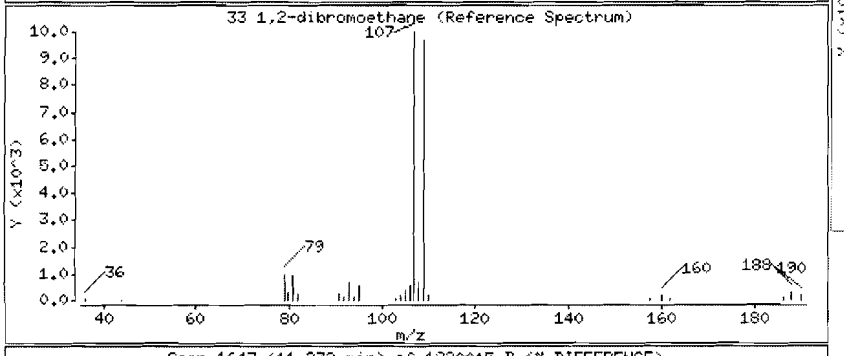
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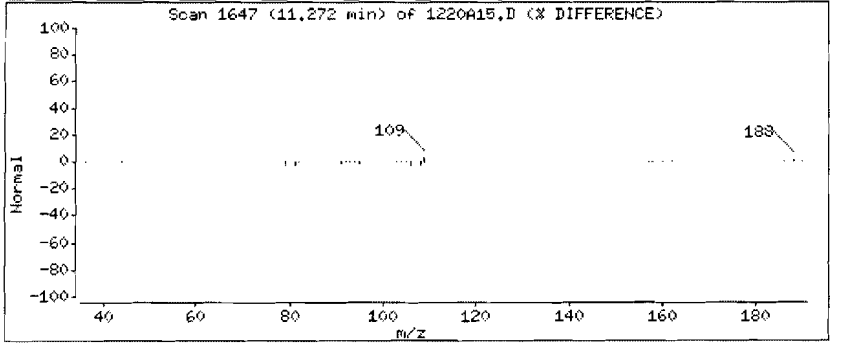
33 1,2-dibromoethane

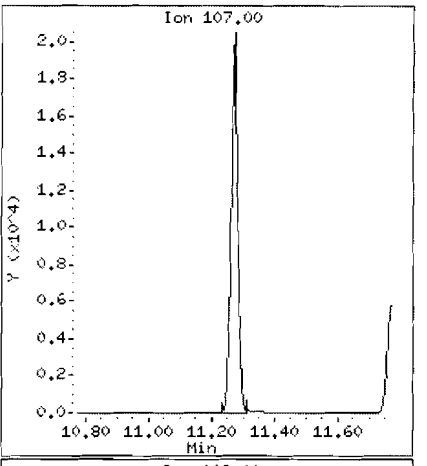
Concentration: 99.02 ngs

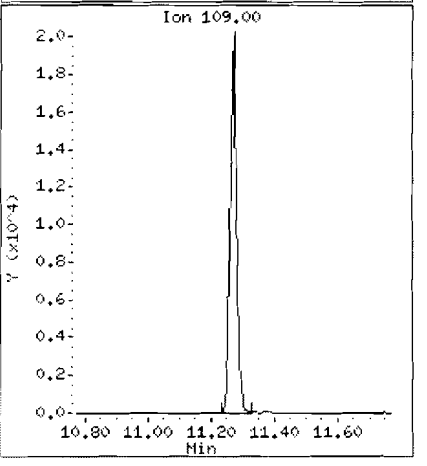












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

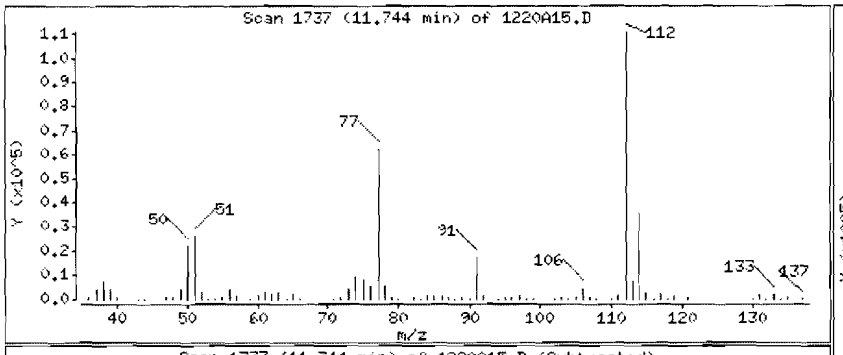
Operator: kl

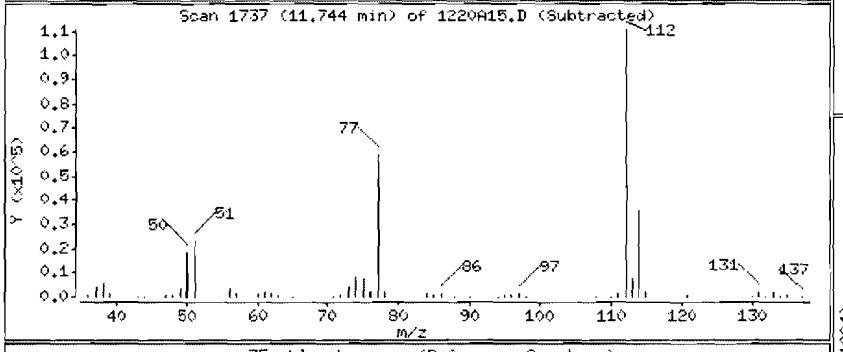
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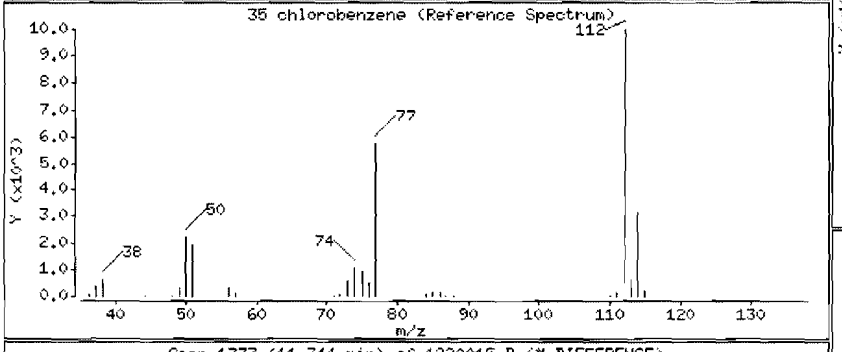
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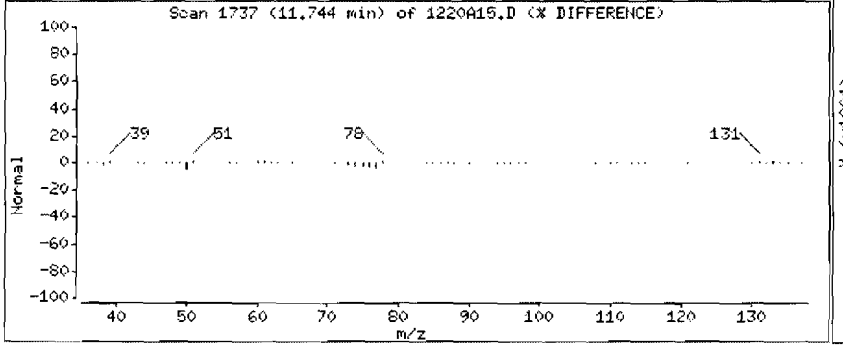
35 chlorobenzene

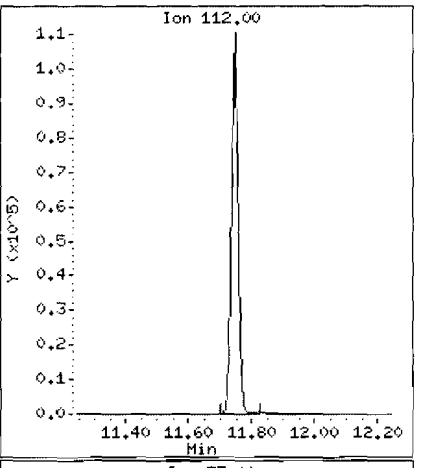
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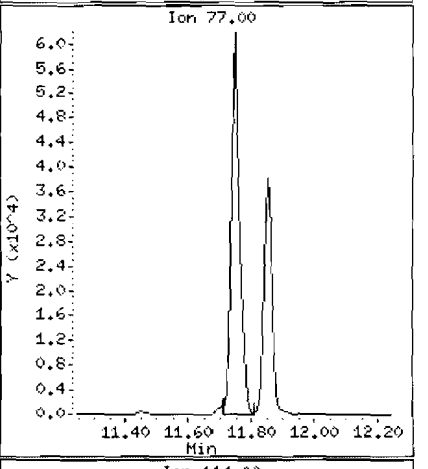


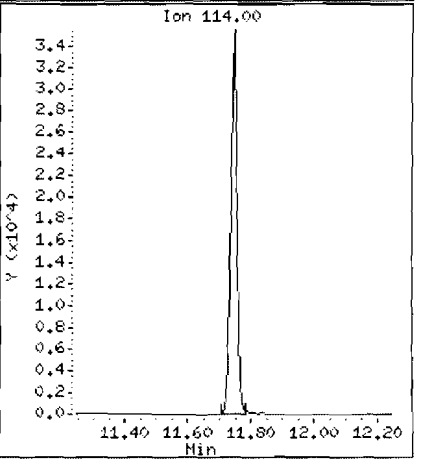












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

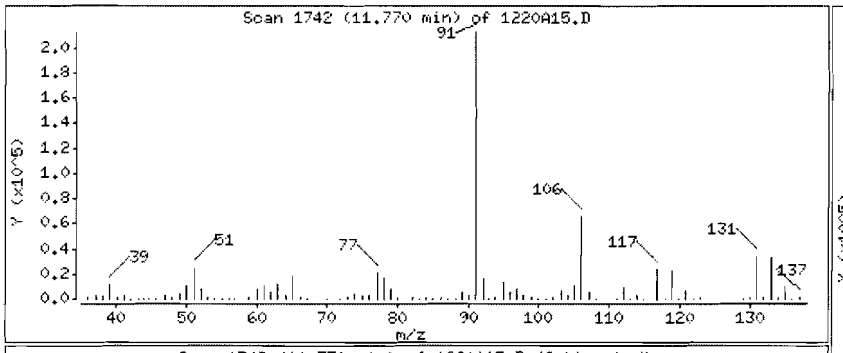
Operator: kl

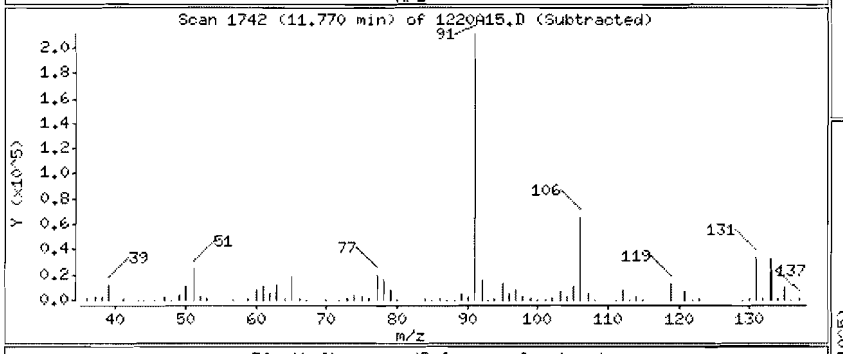
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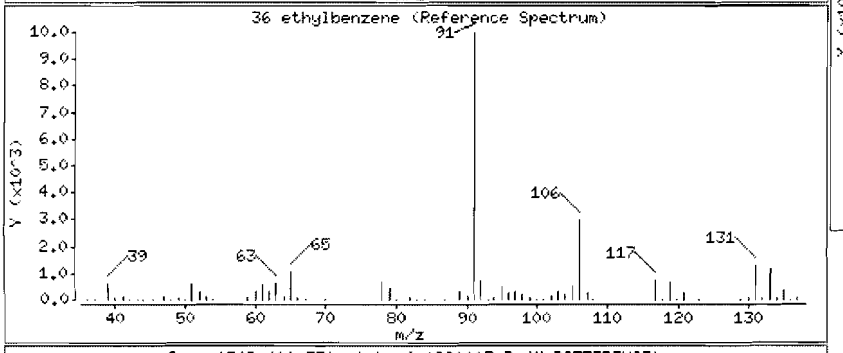
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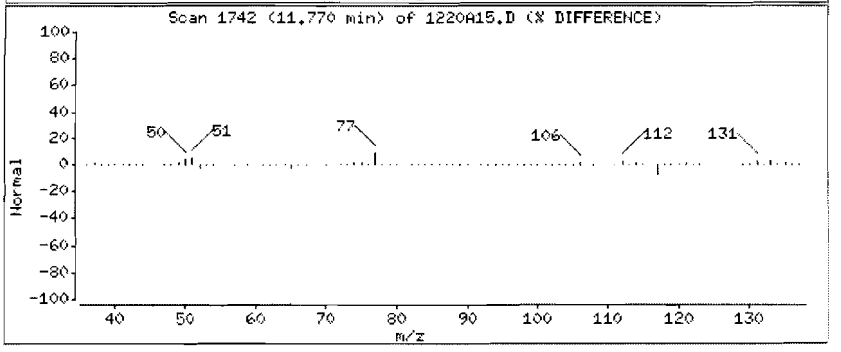
36 ethylbenzene

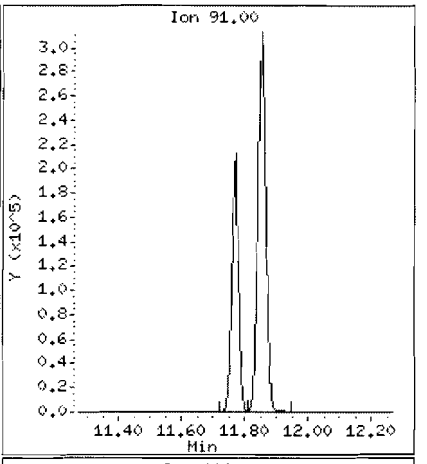
Concentration: 108.37 ngs

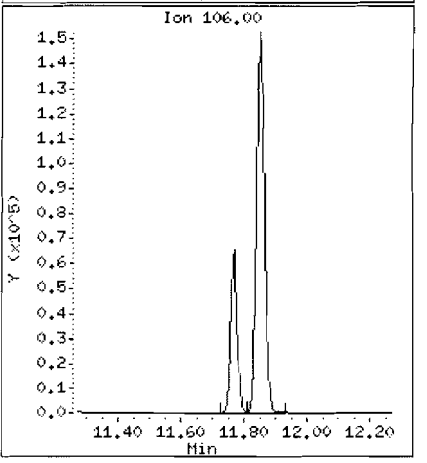












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31.25,,c

Purge Volume: 25.0

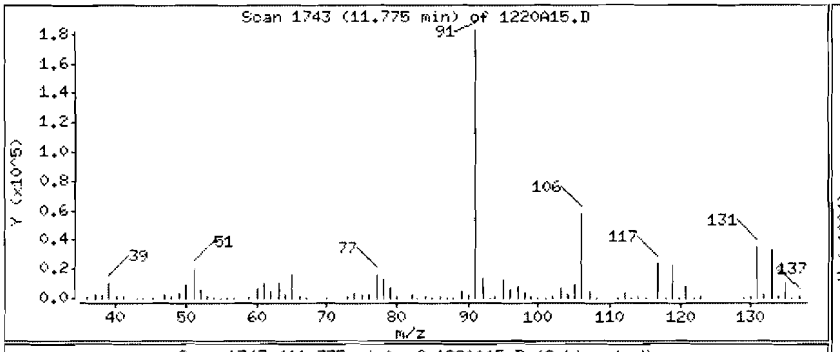
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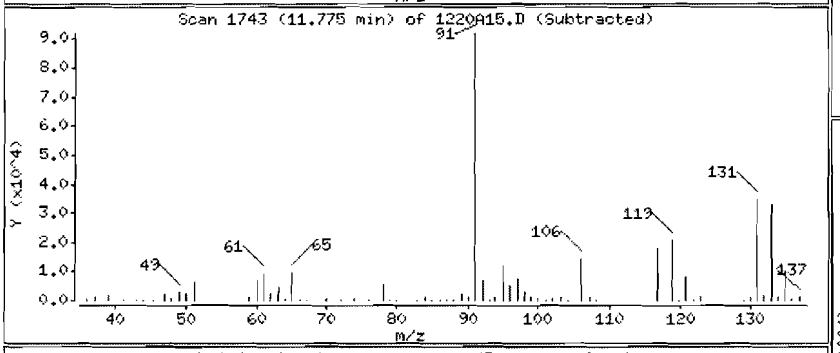
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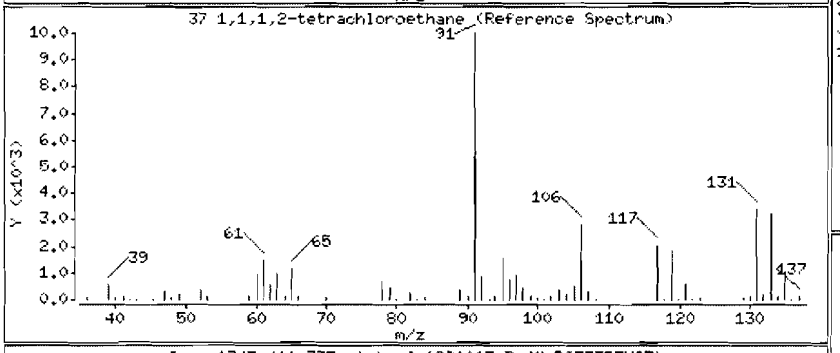
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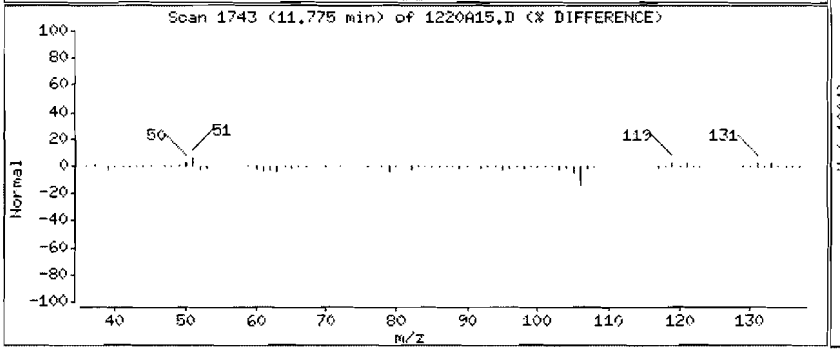
37 1,1,1,2-tetrachloroethane

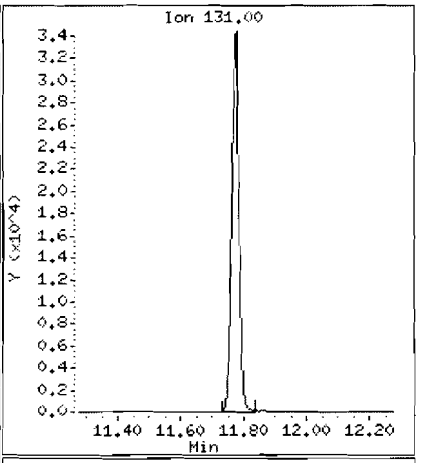
Concentration: 109.04 ngs

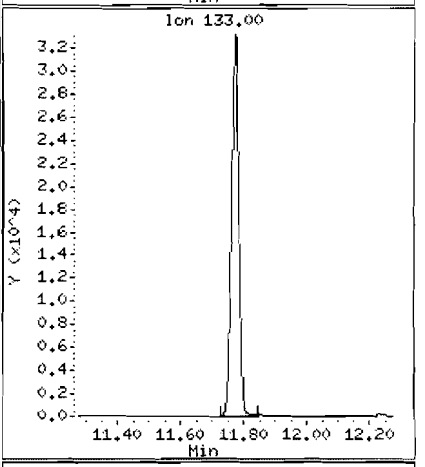


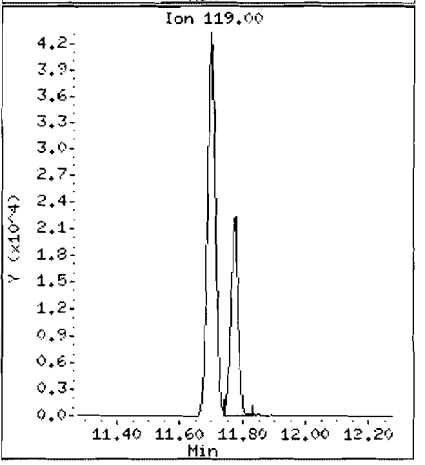












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

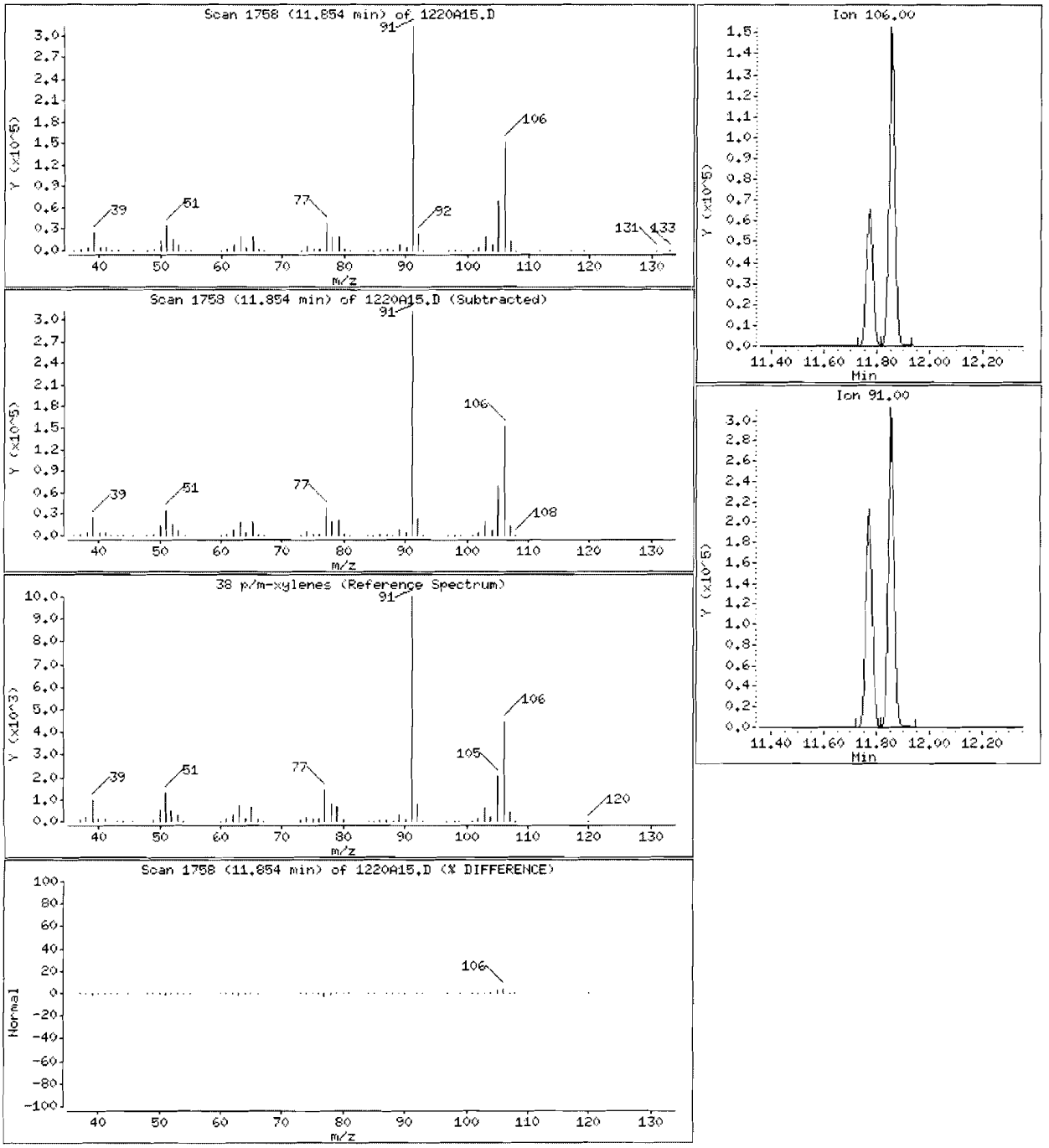
Operator: kl

Column phase:

Column diameter: 0.18

38 p/m-xylenes

Concentration: 211.70 ngs



Data File: \\orgserv2\ff\chem\GCMSV0A\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

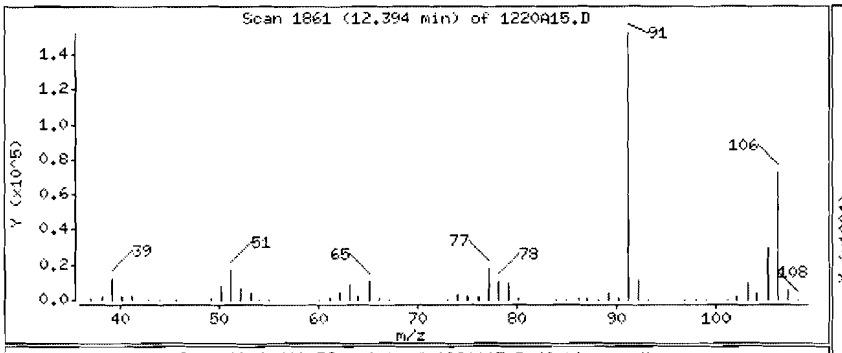
Operator: kl

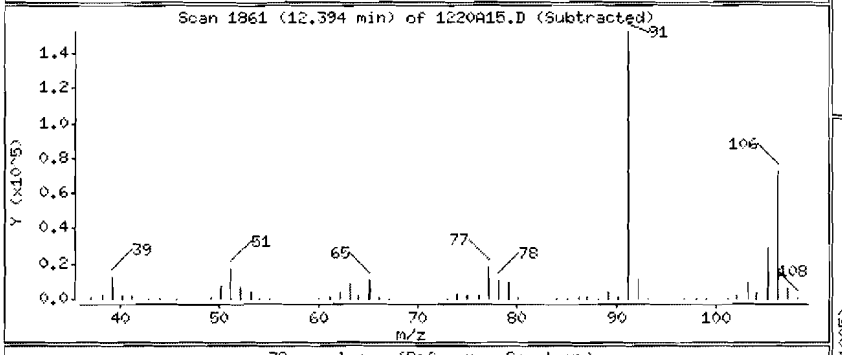
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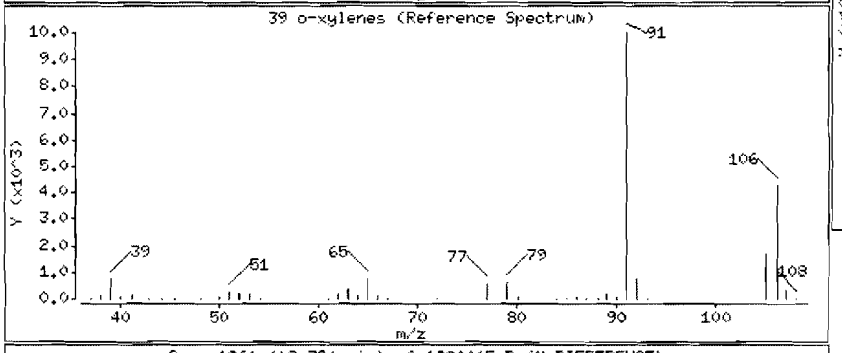
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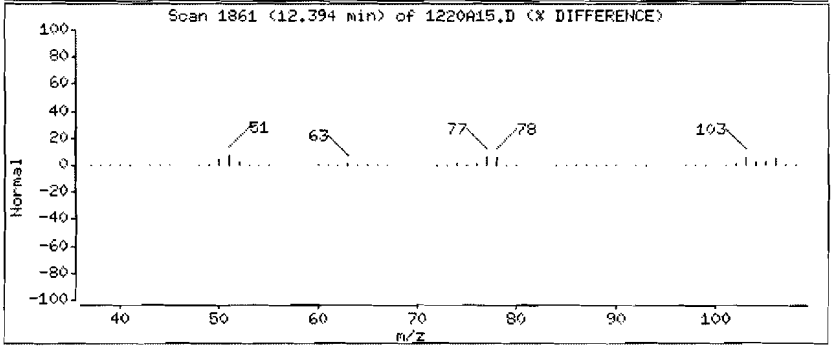
39 o-xylenes

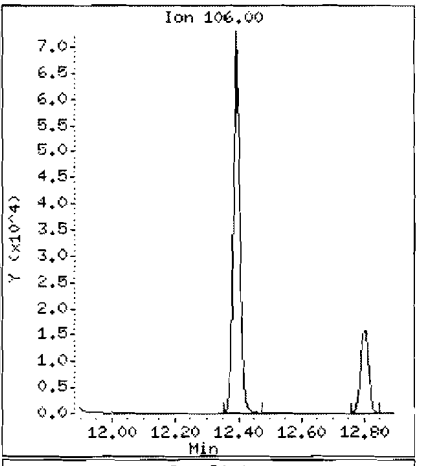
Concentration: 99.37 ngs

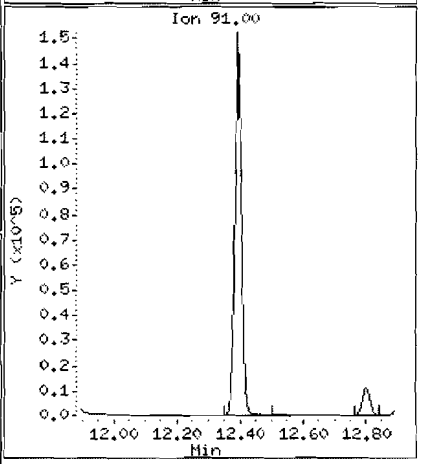












Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

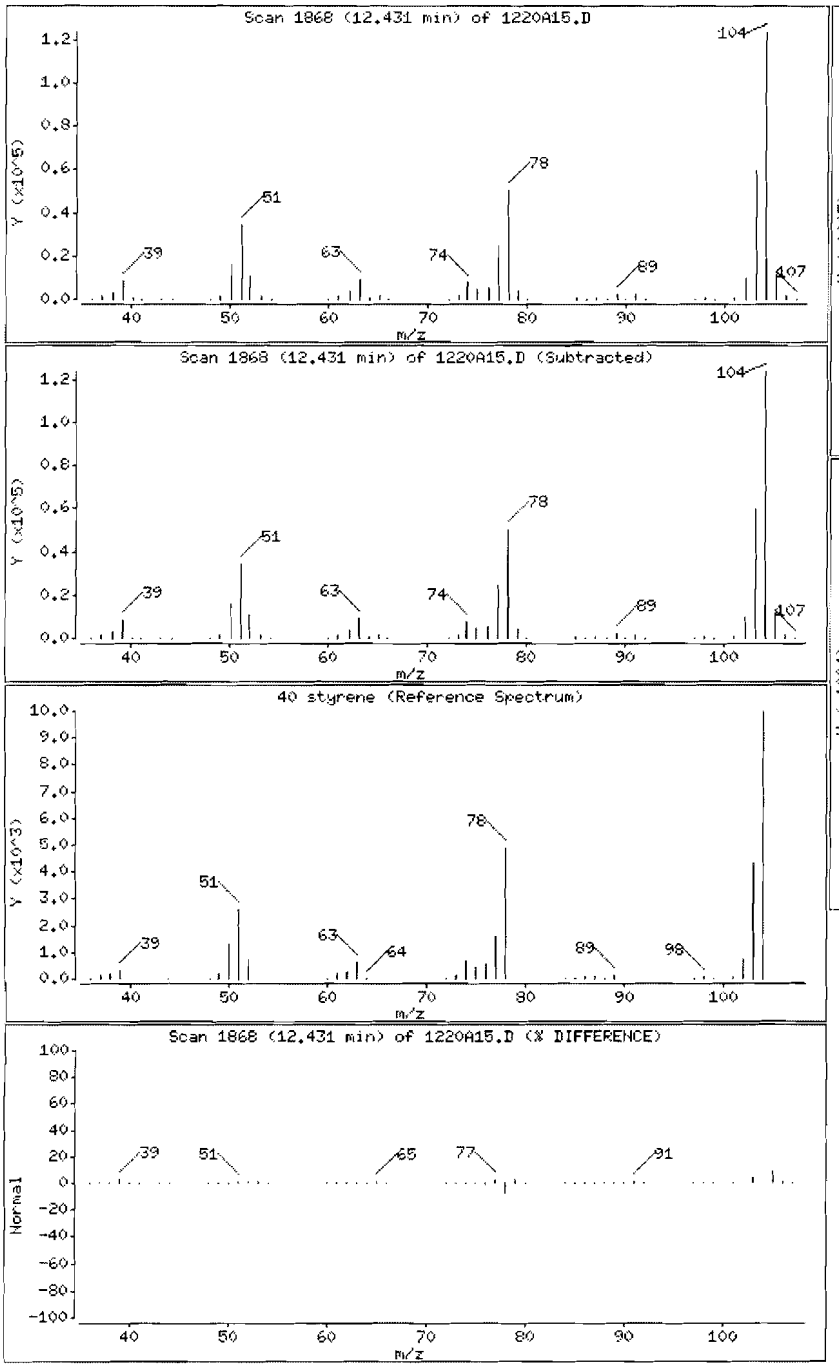
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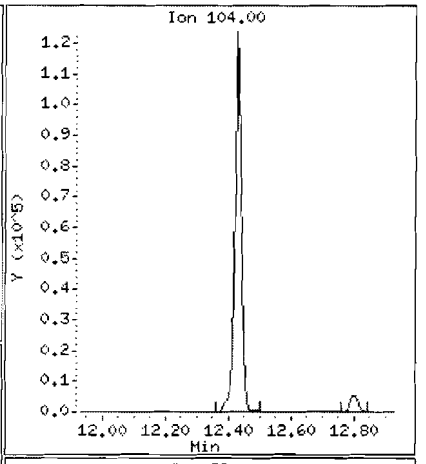
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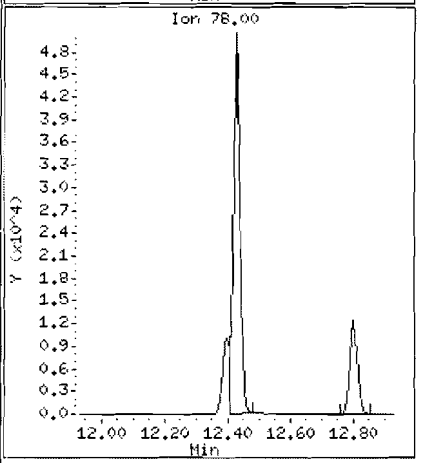
Column diameter: 0.18

40 styrene

Concentration: 105.11 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

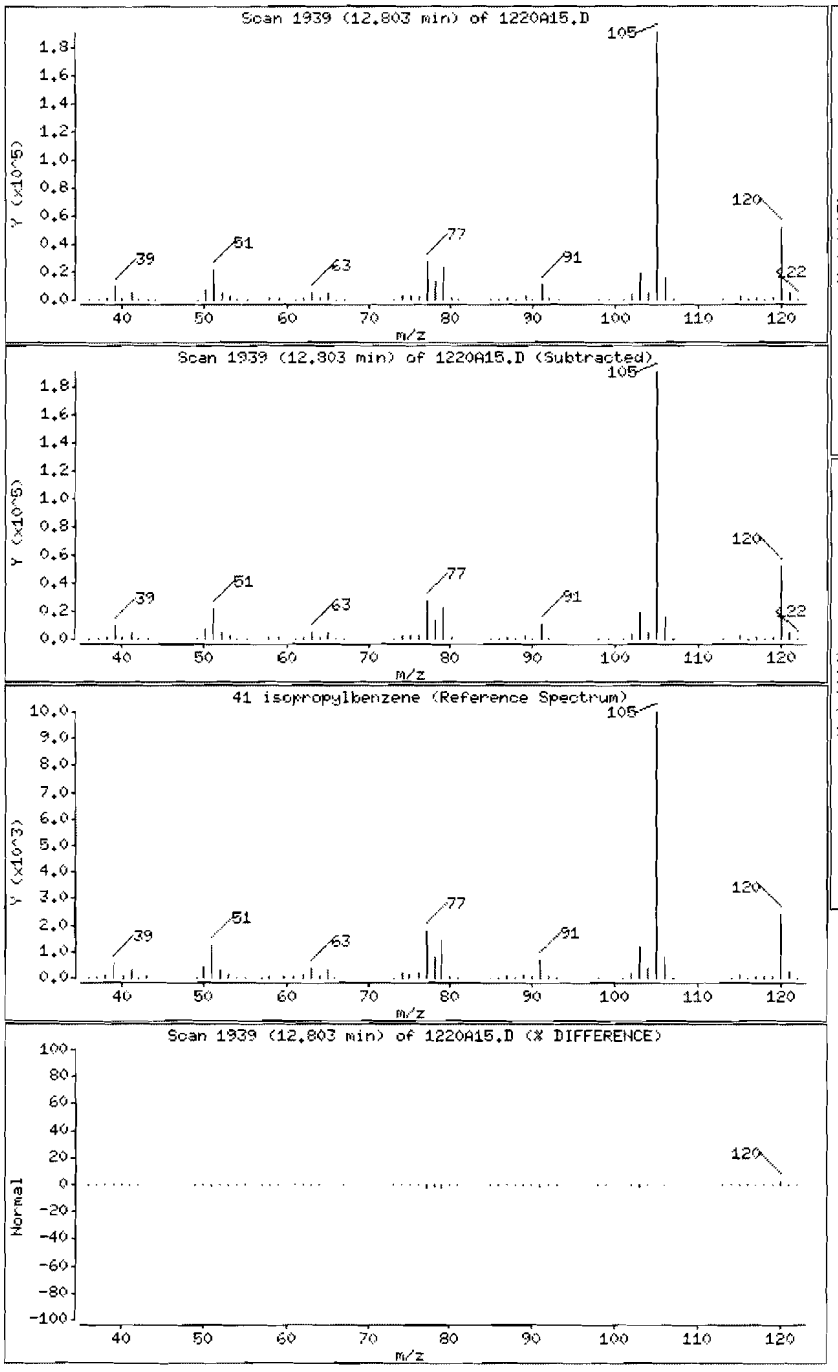
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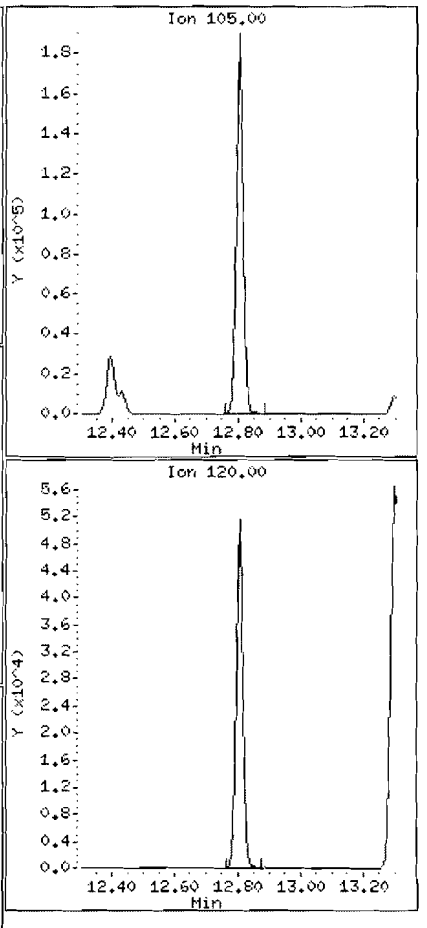
Column phase:

Column diameter: 0.18

41 isopropylbenzene

Concentration: 100.89 ngs





Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

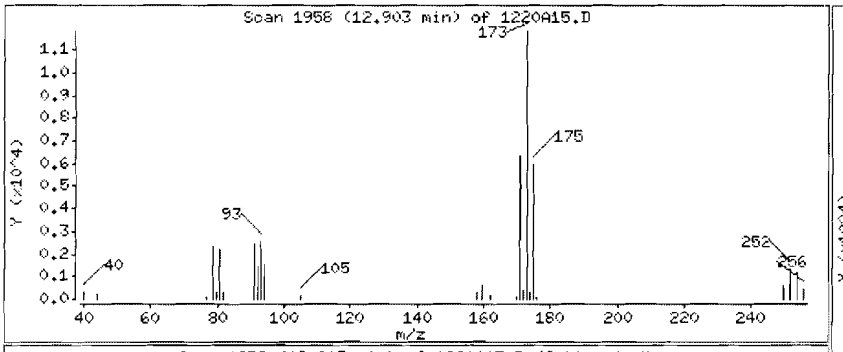
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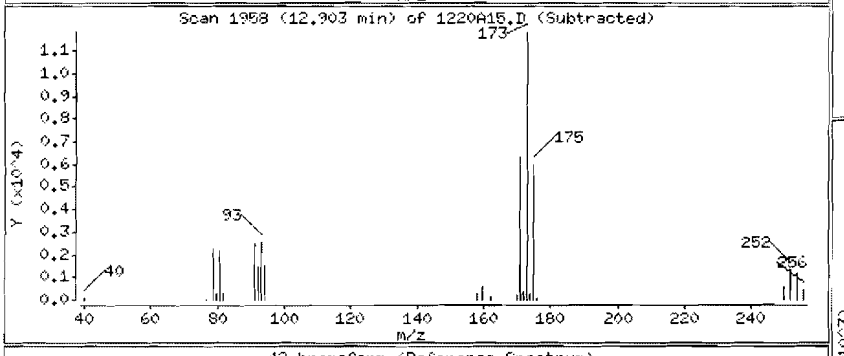
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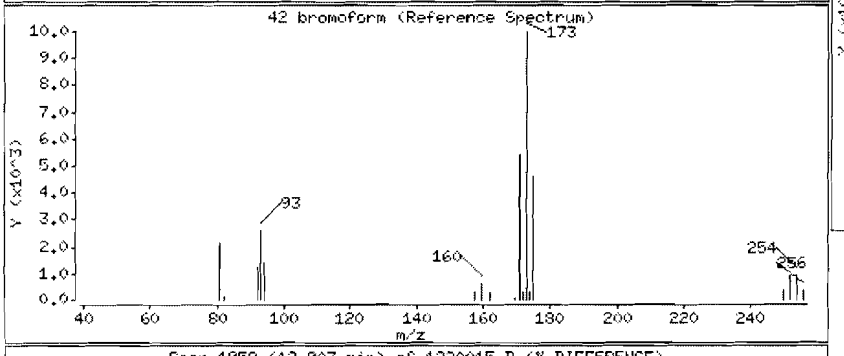
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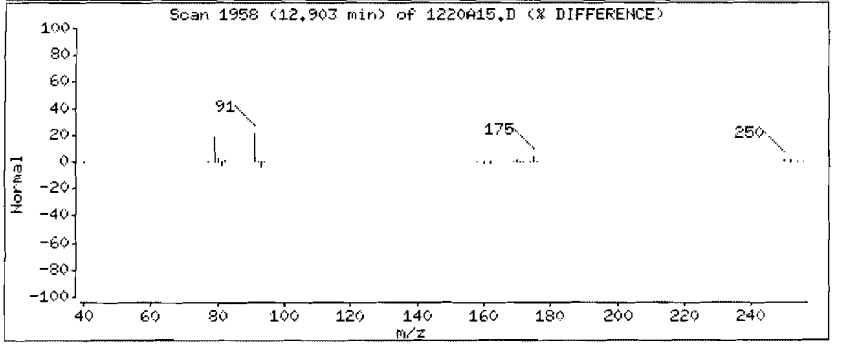
42 bromoform

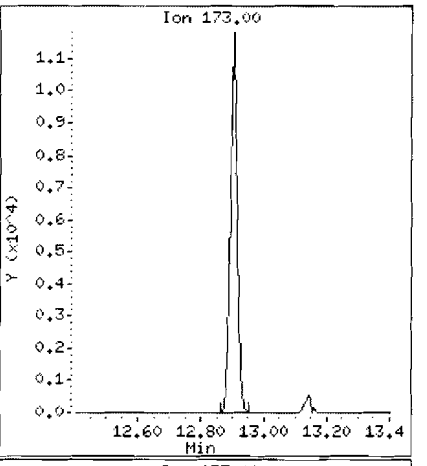
Concentration: 95.94 ngs

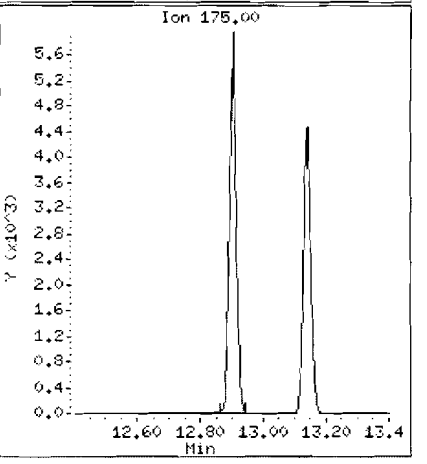












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31.25,,c

Purge Volume: 25.0

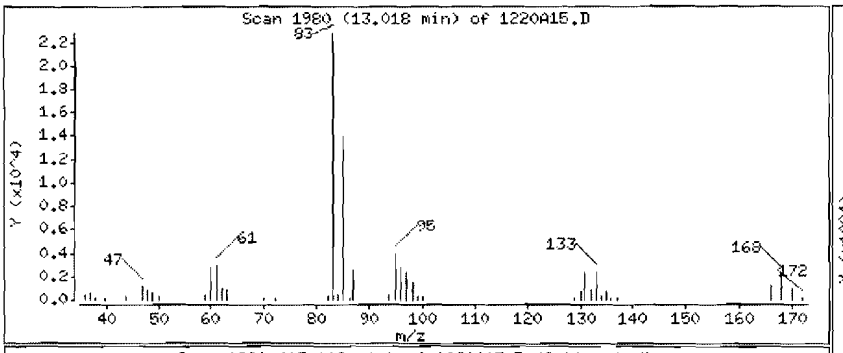
Operator: kl

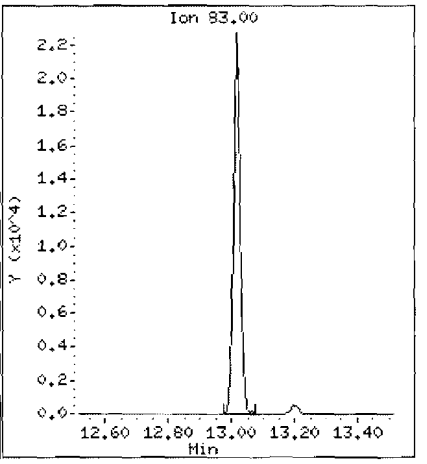
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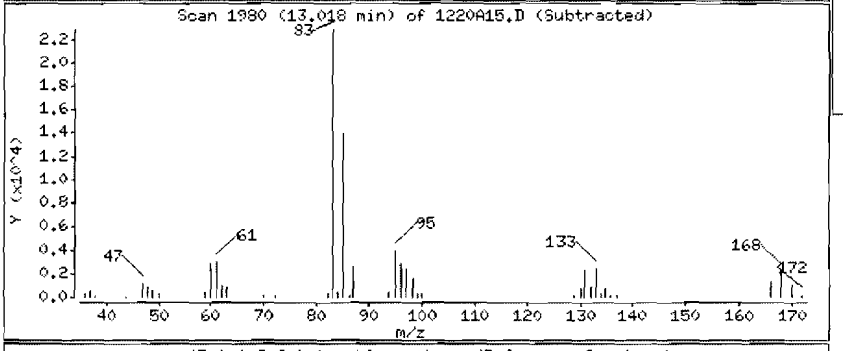
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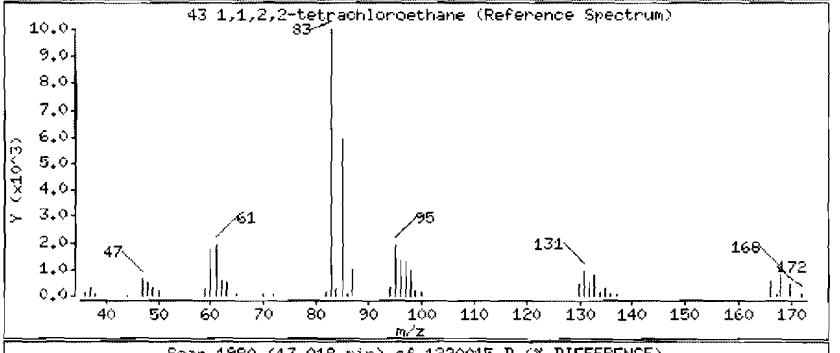
43 1,1,2,2-tetrachloroethane

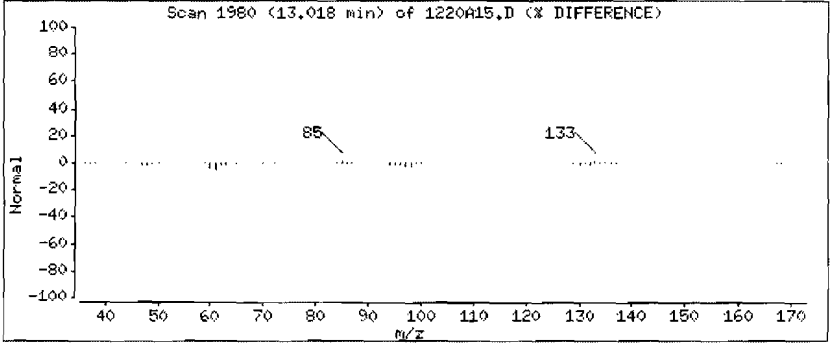
Concentration: 103.05 ngs











Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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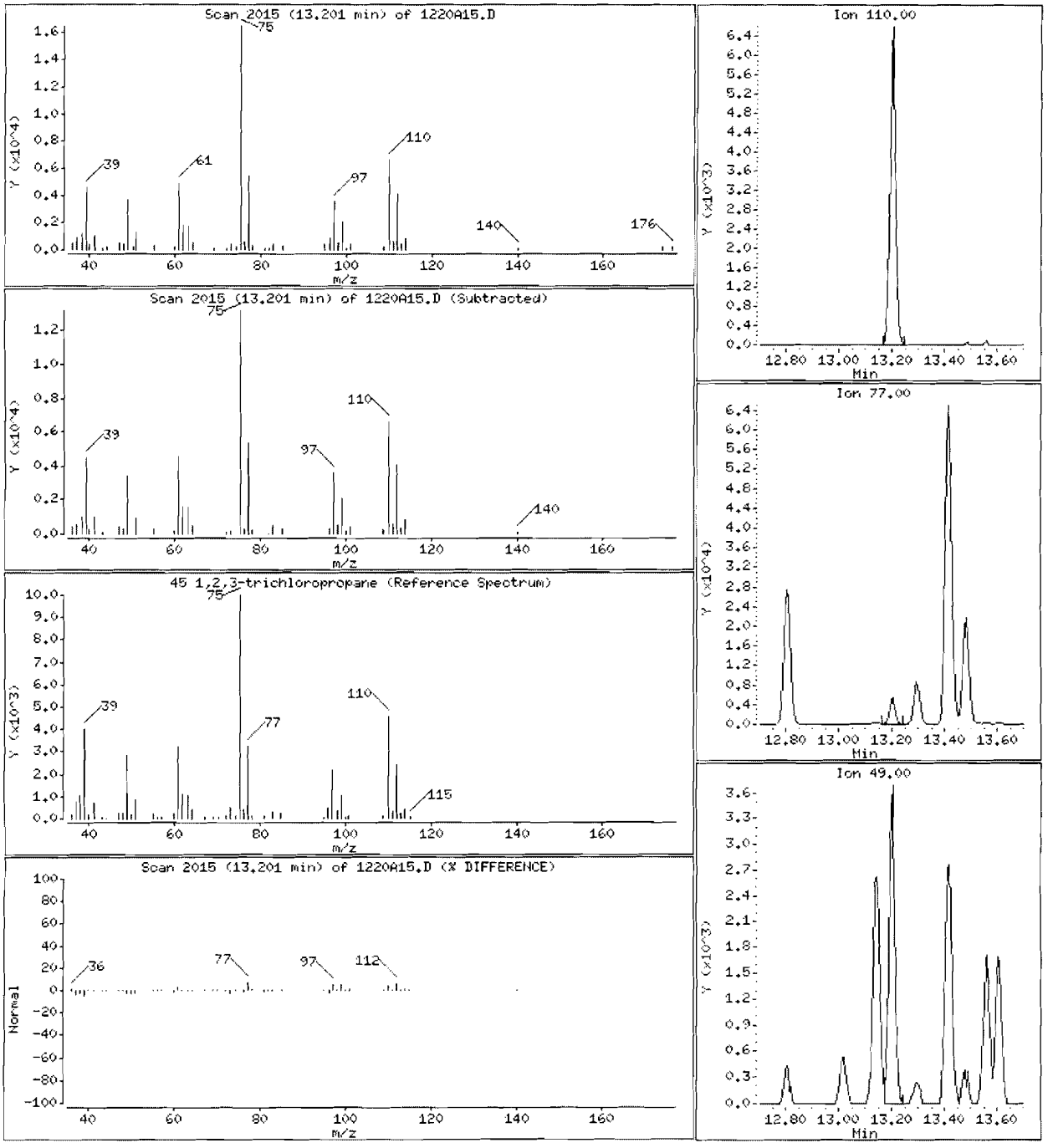
Operator: kl

Column phase:

Column diameter: 0.18

45 1,2,3-trichloropropane

Concentration: 99.99 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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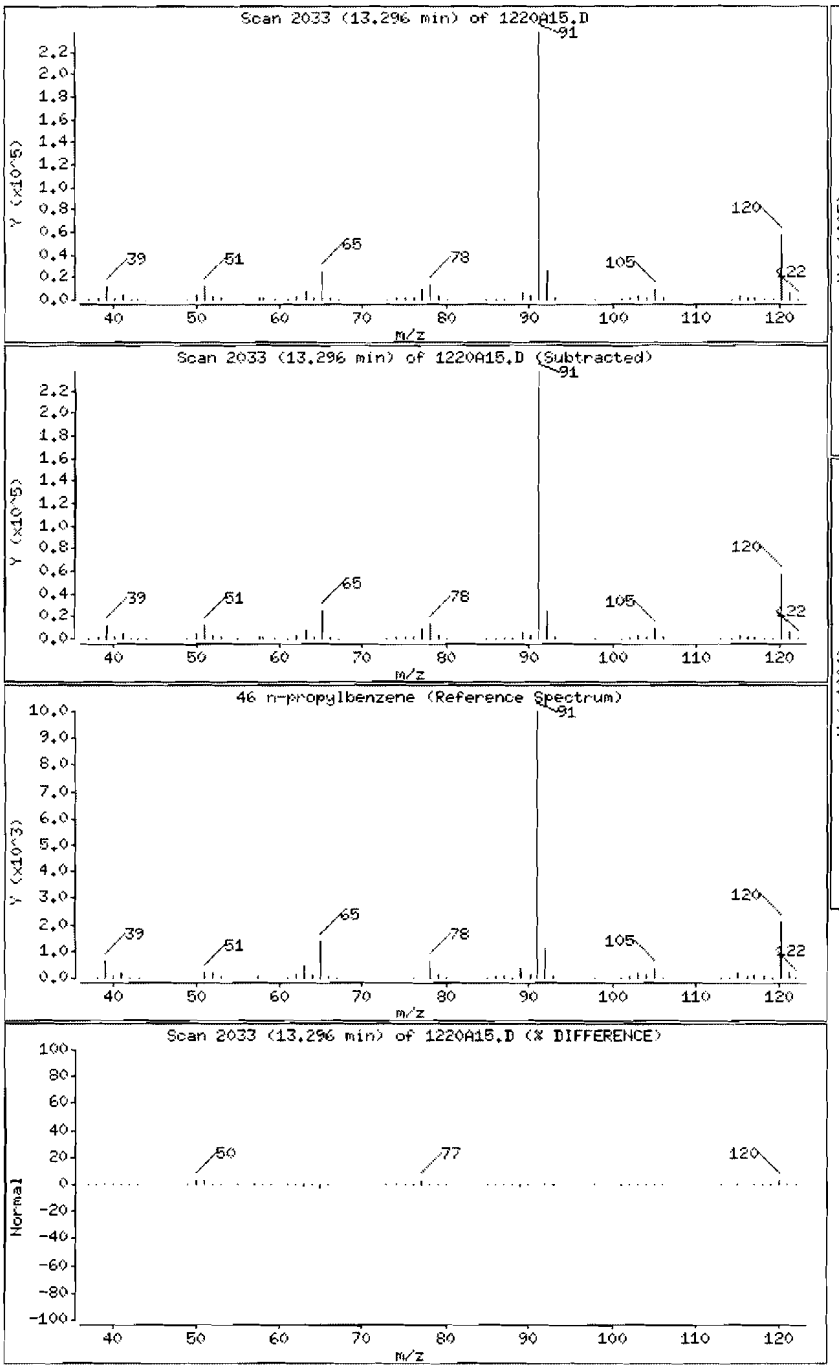
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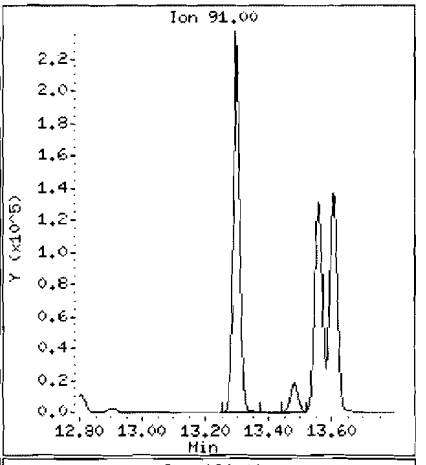
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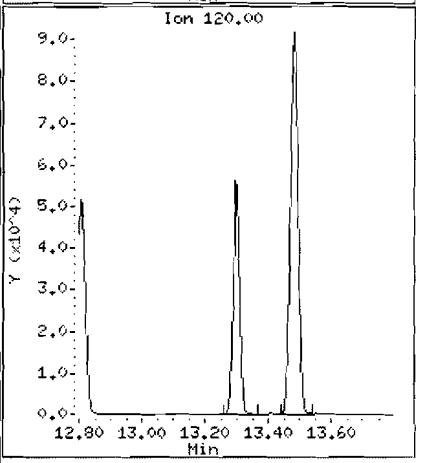
Column diameter: 0.18

46 n-propylbenzene

Concentration: 98.89 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

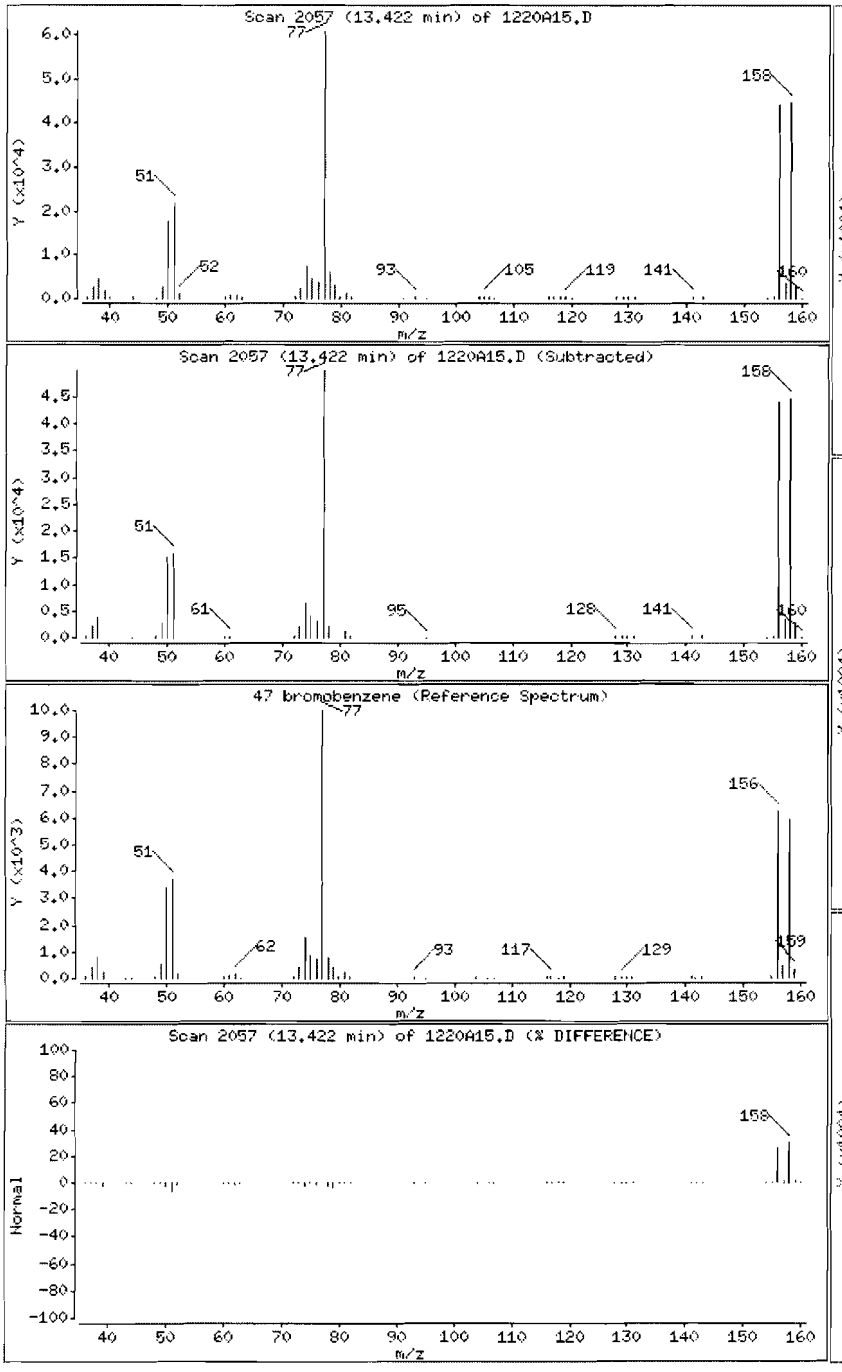
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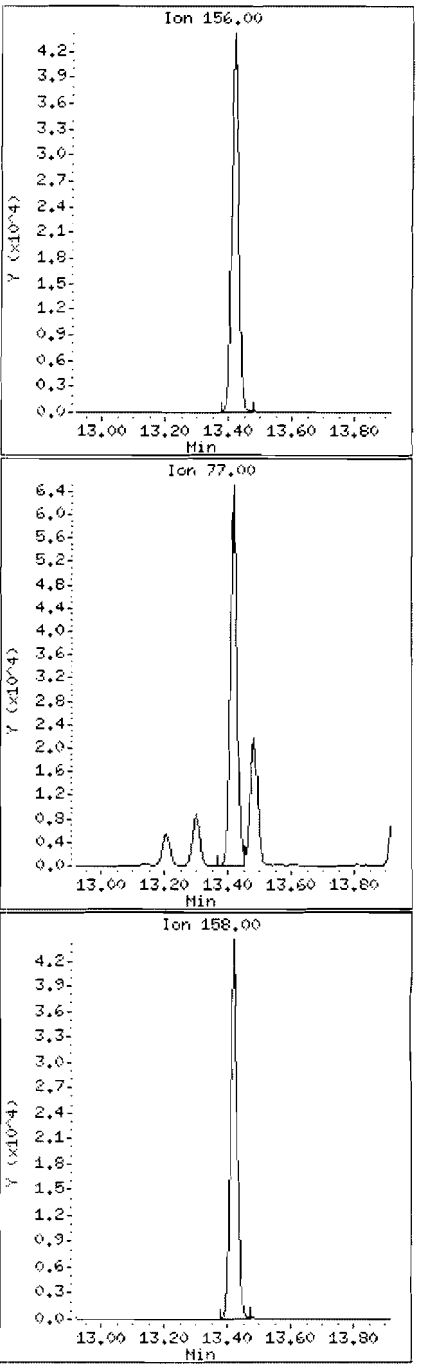
Column phase:

Column diameter: 0.18

47 bromobenzene

Concentration: 103.51 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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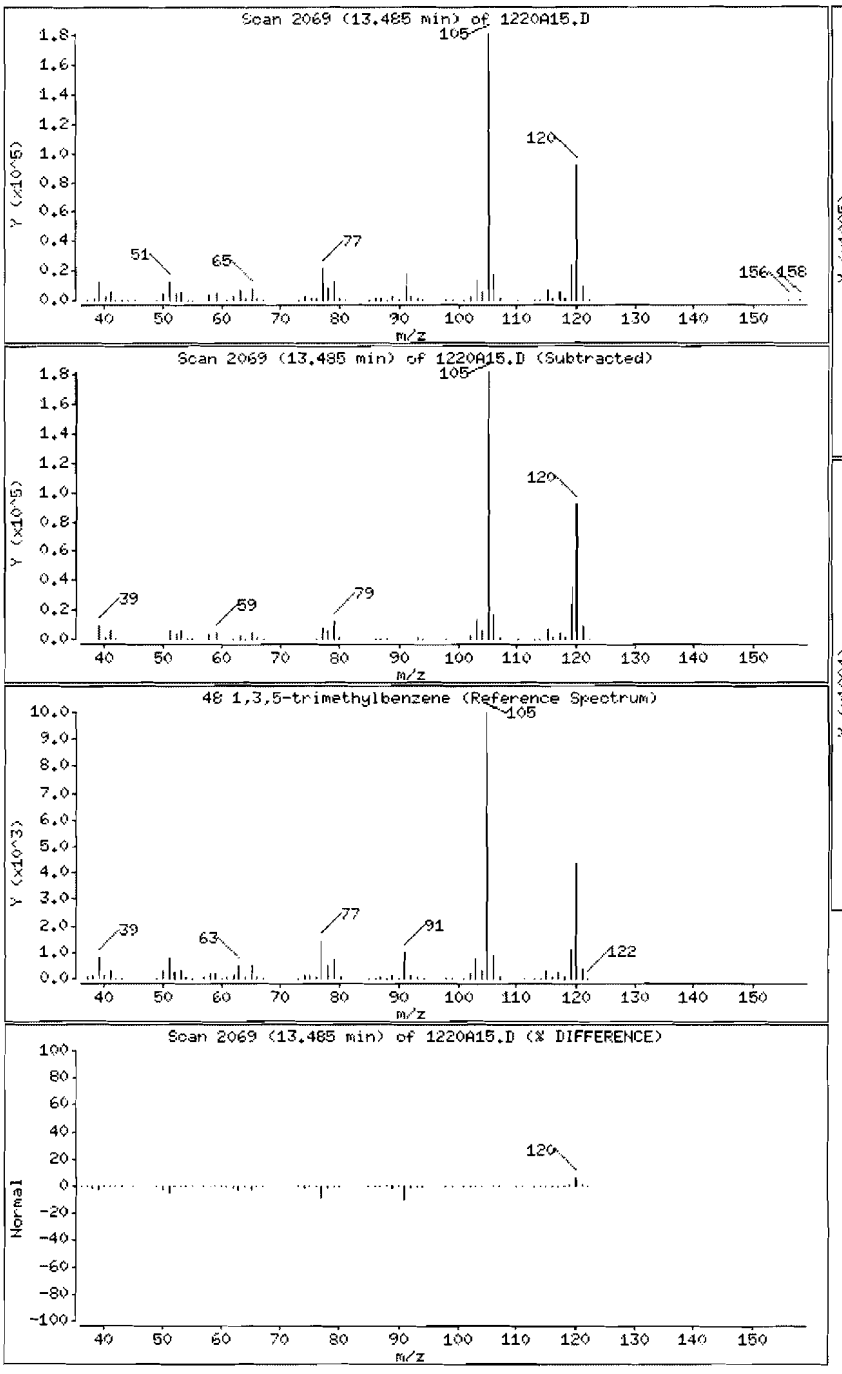
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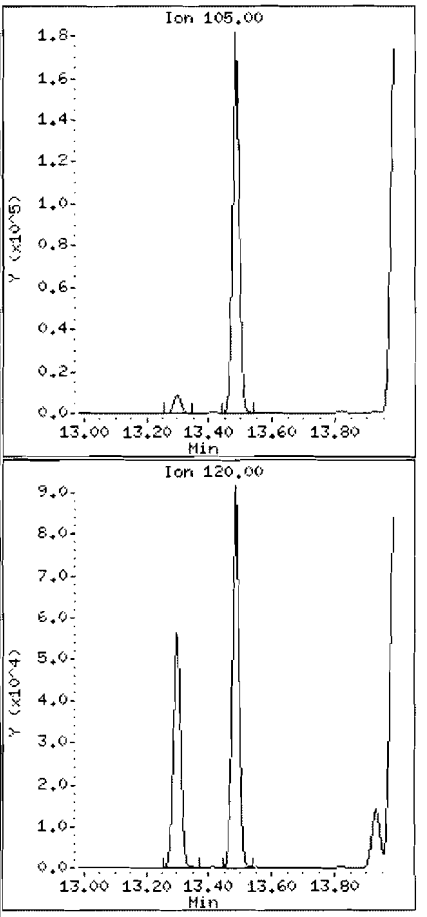
Column phase:

Column diameter: 0.18

48 1,3,5-trimethylbenzene

Concentration: 112.12 ngs





Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

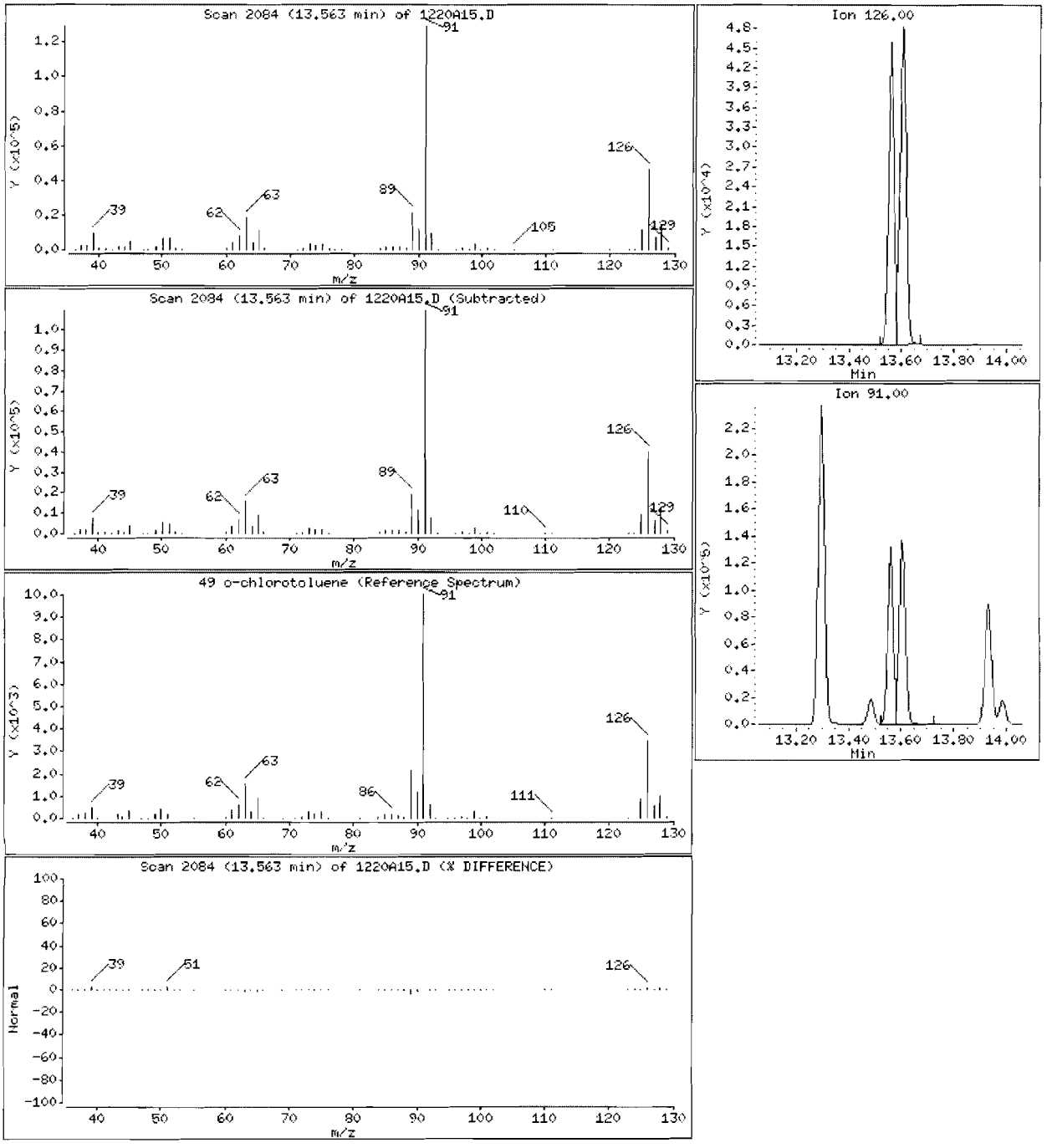
Operator: kl

Column phase:

Column diameter: 0.18

49 o-chlorotoluene

Concentration: 100.95 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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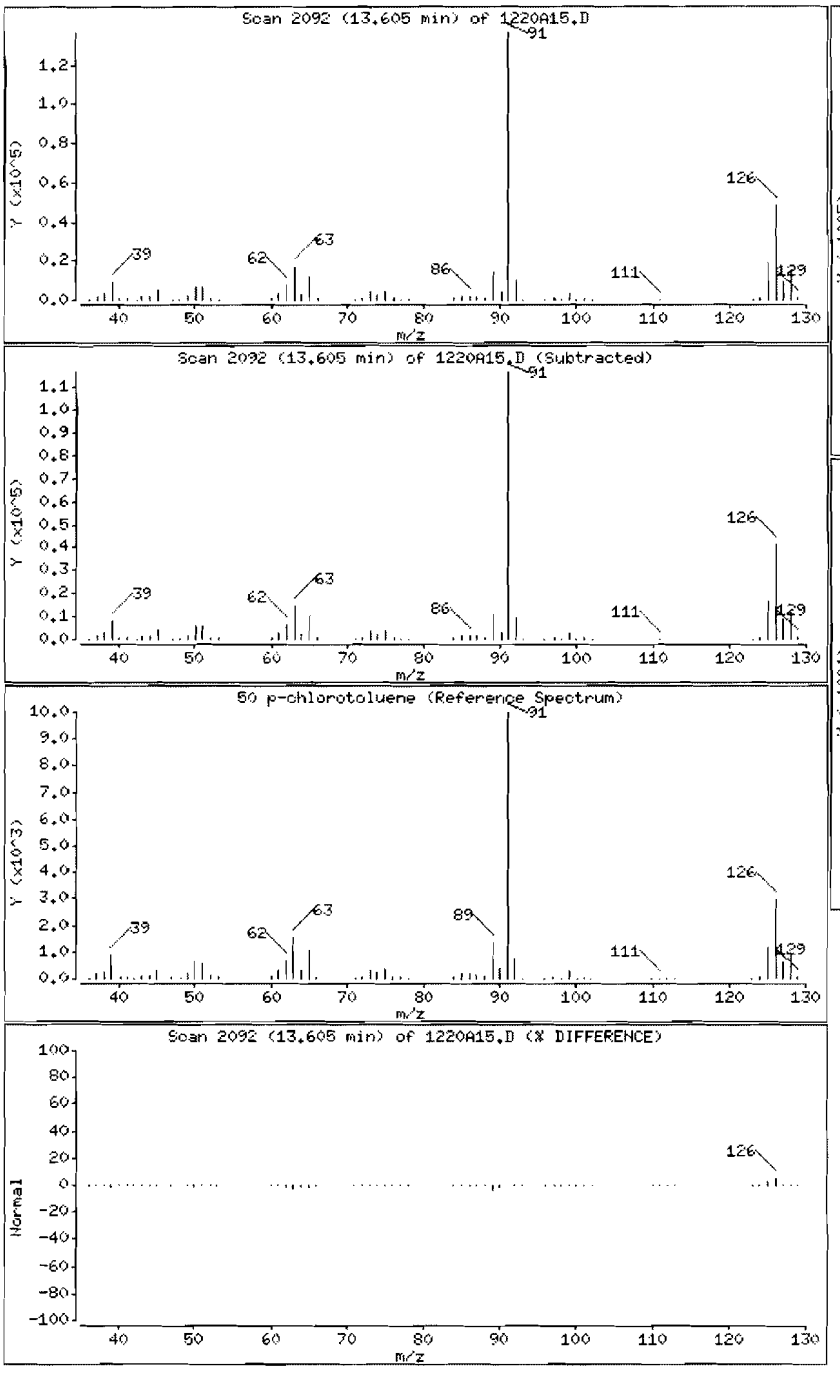
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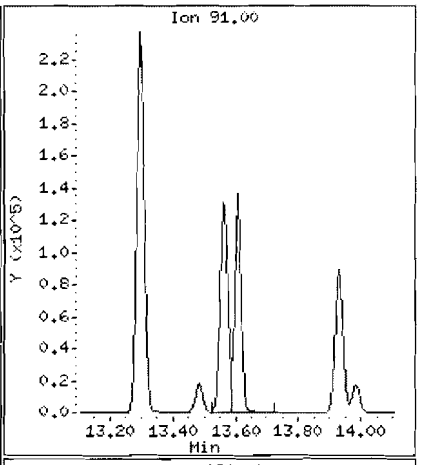
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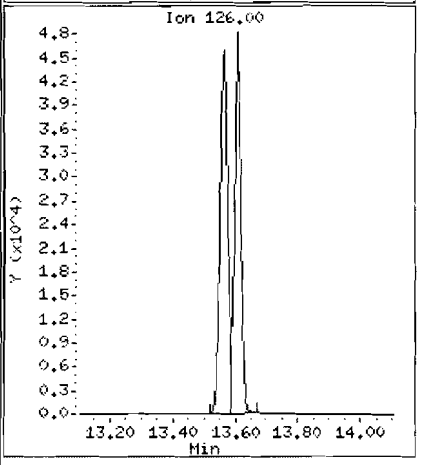
Column diameter: 0.18

50 p-chlorotoluene

Concentration: 97.85 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

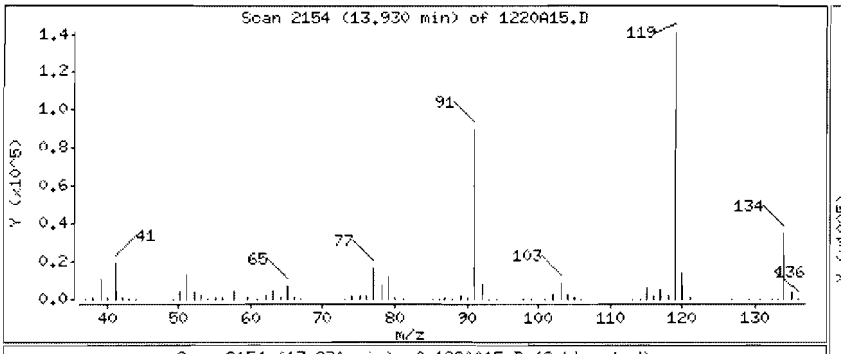
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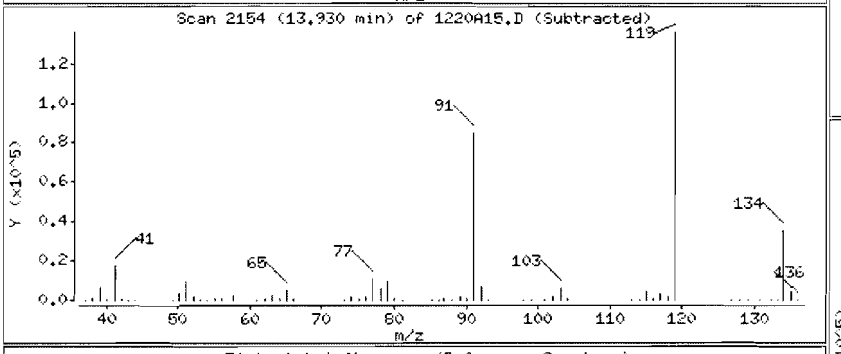
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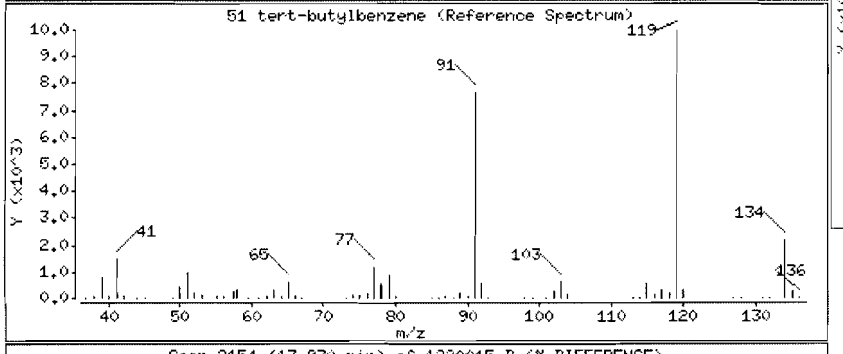
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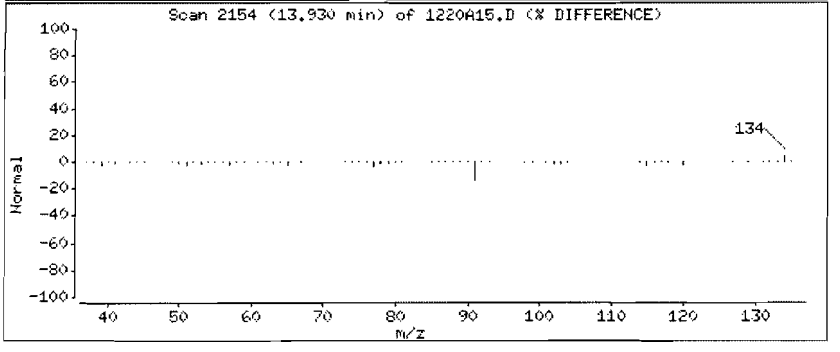
51 tert-butylbenzene

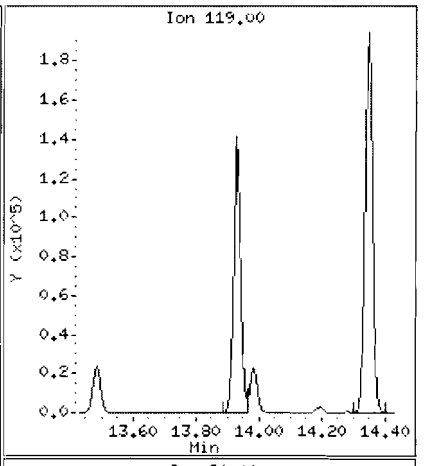
Concentration: 101.79 ngs

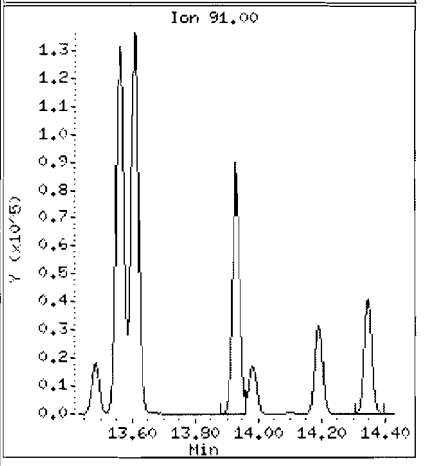












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

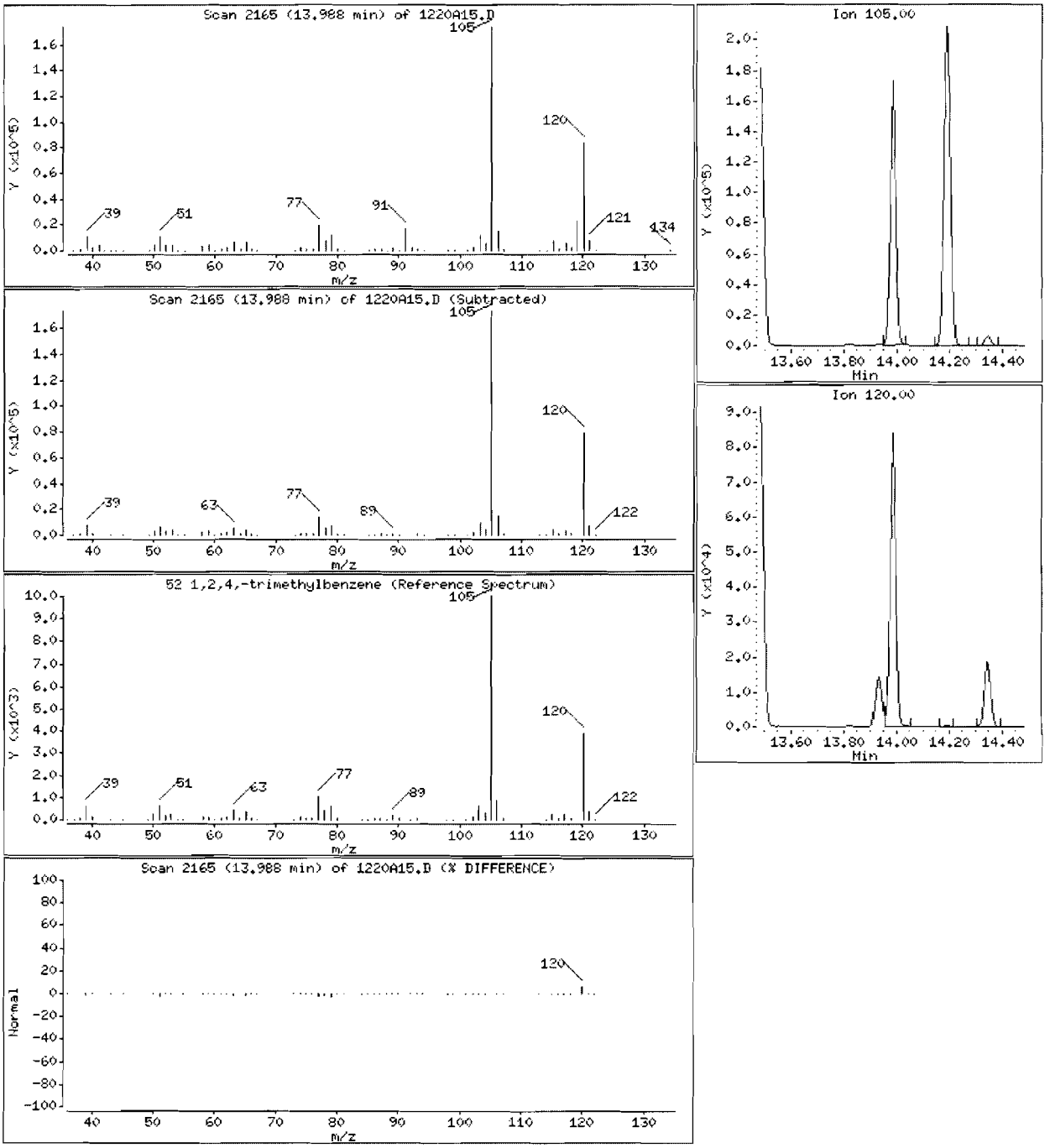
Operator: kl

Column phase:

Column diameter: 0.18

52 1,2,4,-trimethylbenzene

Concentration: 106.68 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

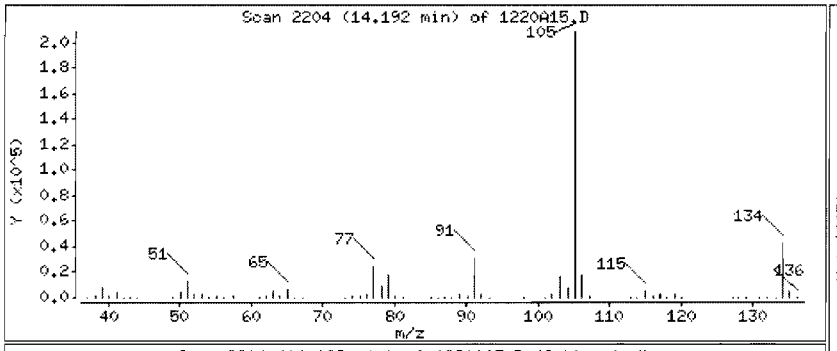
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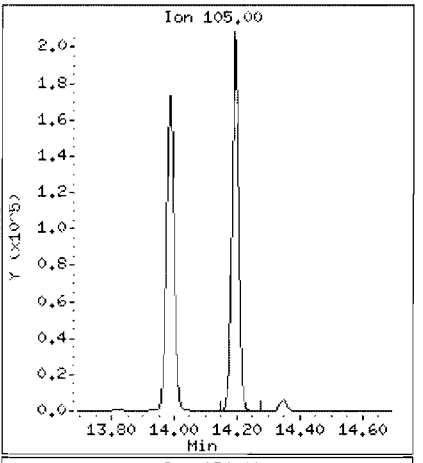
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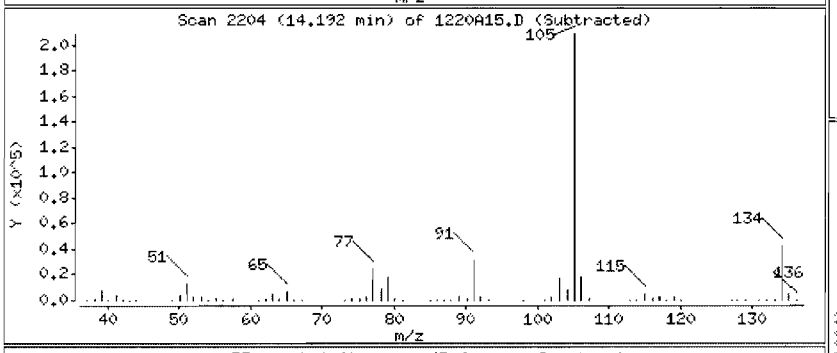
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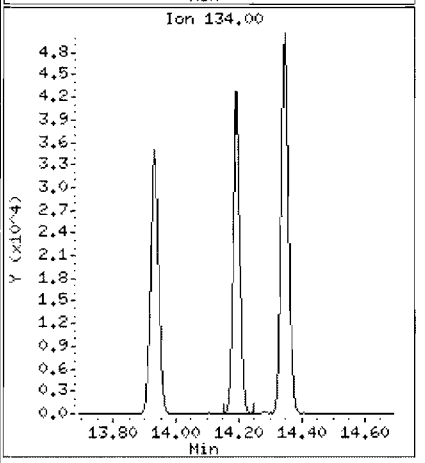
53 sec-butylbenzene

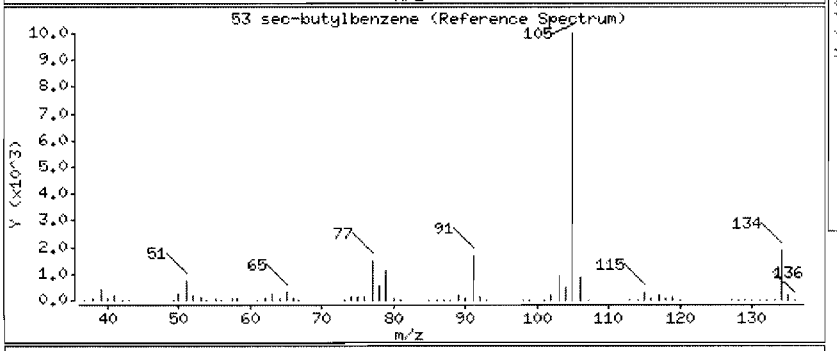
Concentration: 101.63 ngs

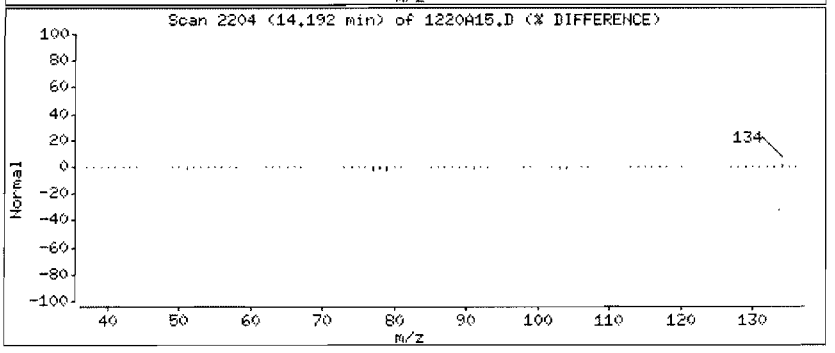












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31.25,,c

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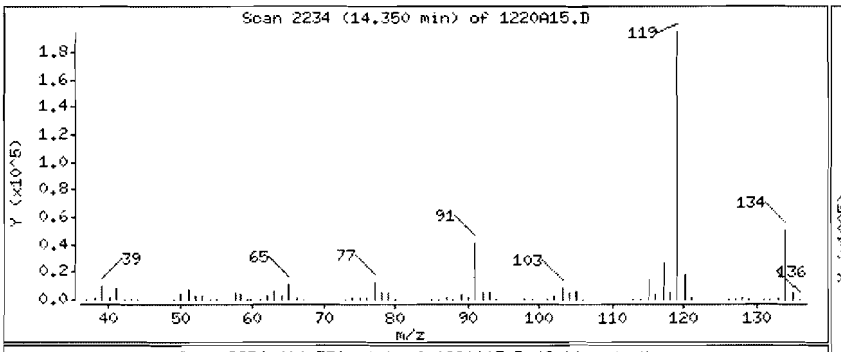
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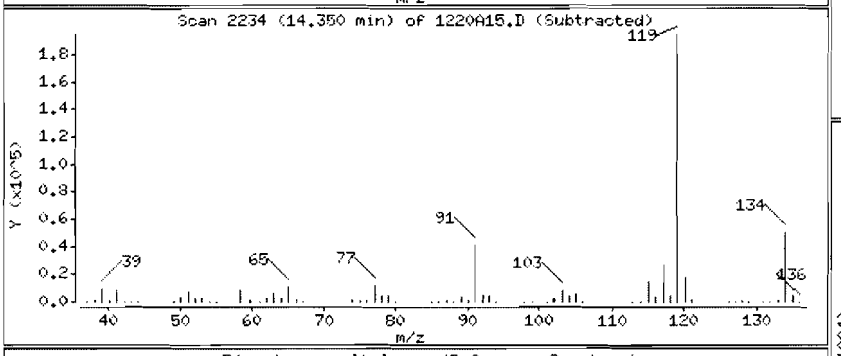
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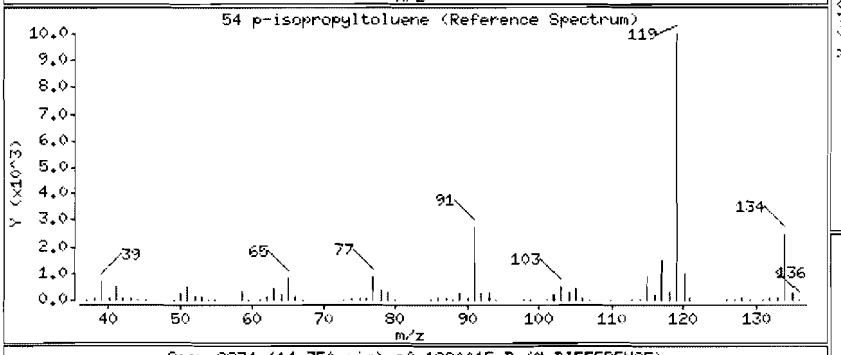
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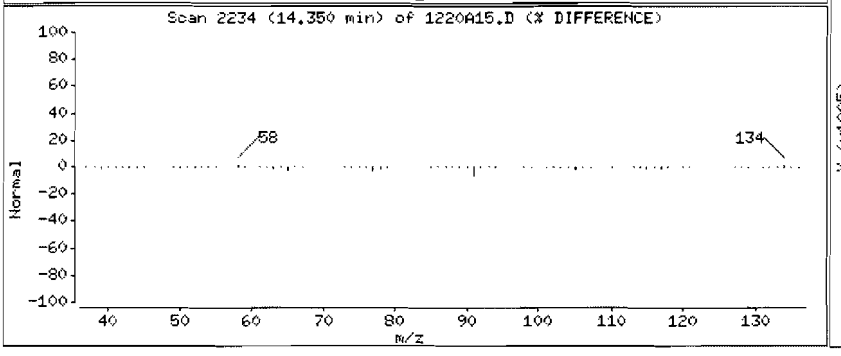
54 p-isopropyltoluene

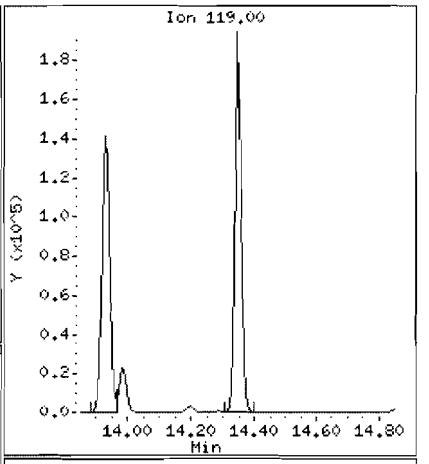
Concentration: 100.77 ngs

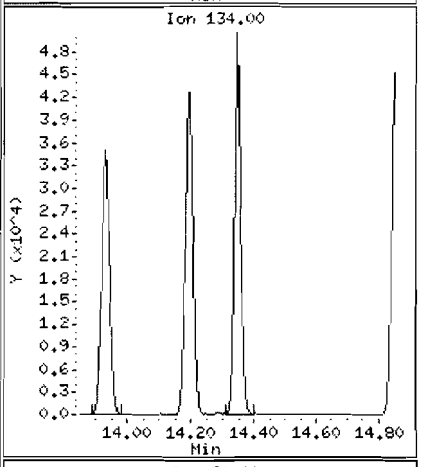


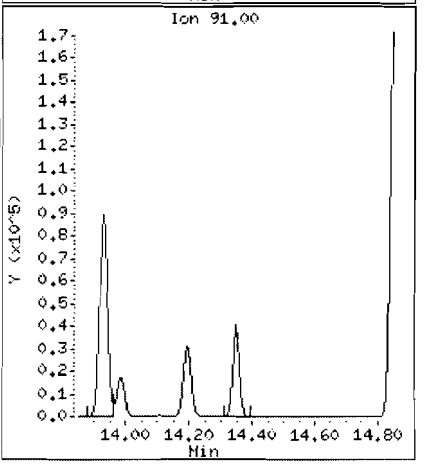












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

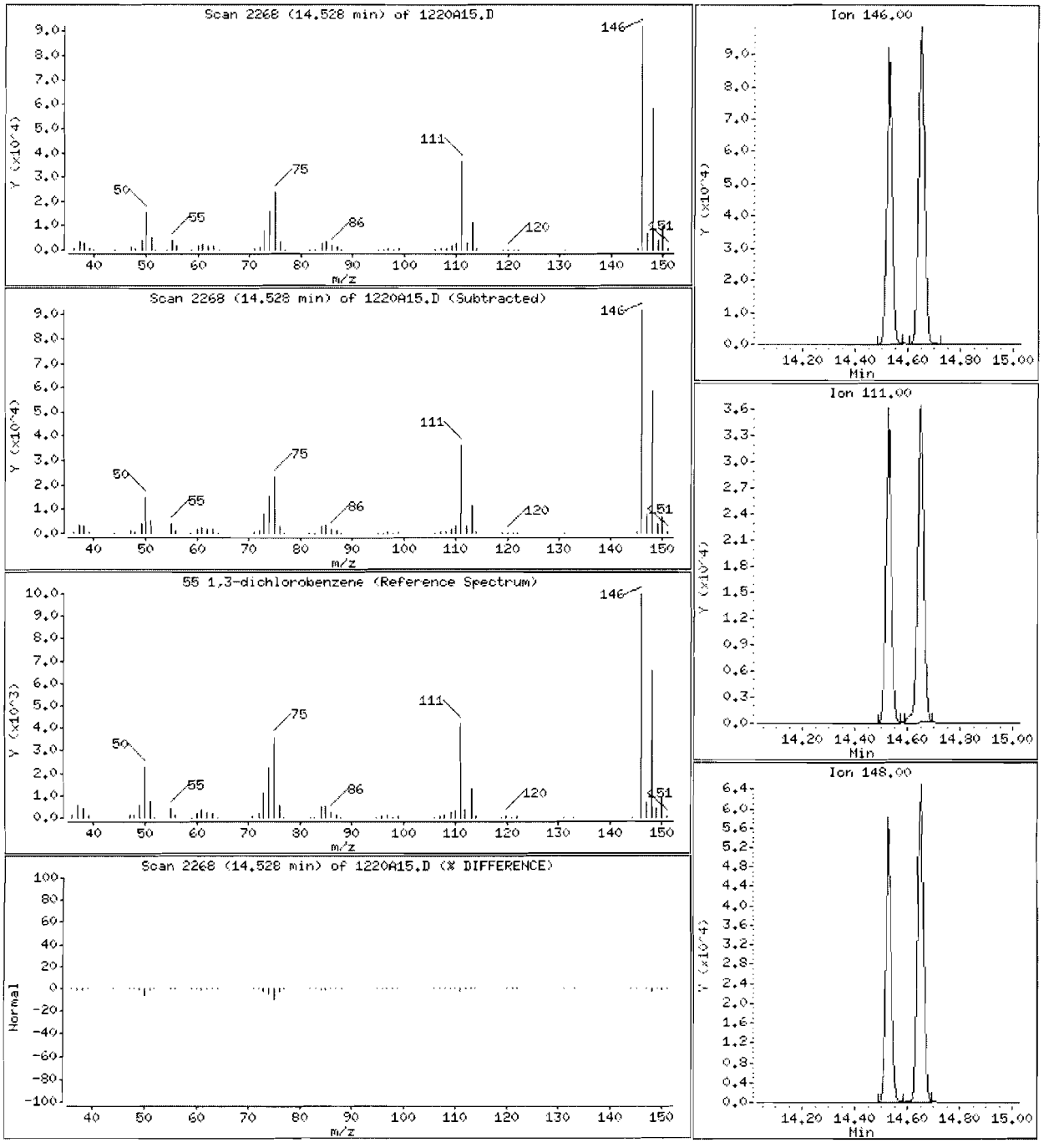
Operator: kl

Column phase:

Column diameter: 0.18

55 1,3-dichlorobenzene

Concentration: 97.48 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31.25,,c

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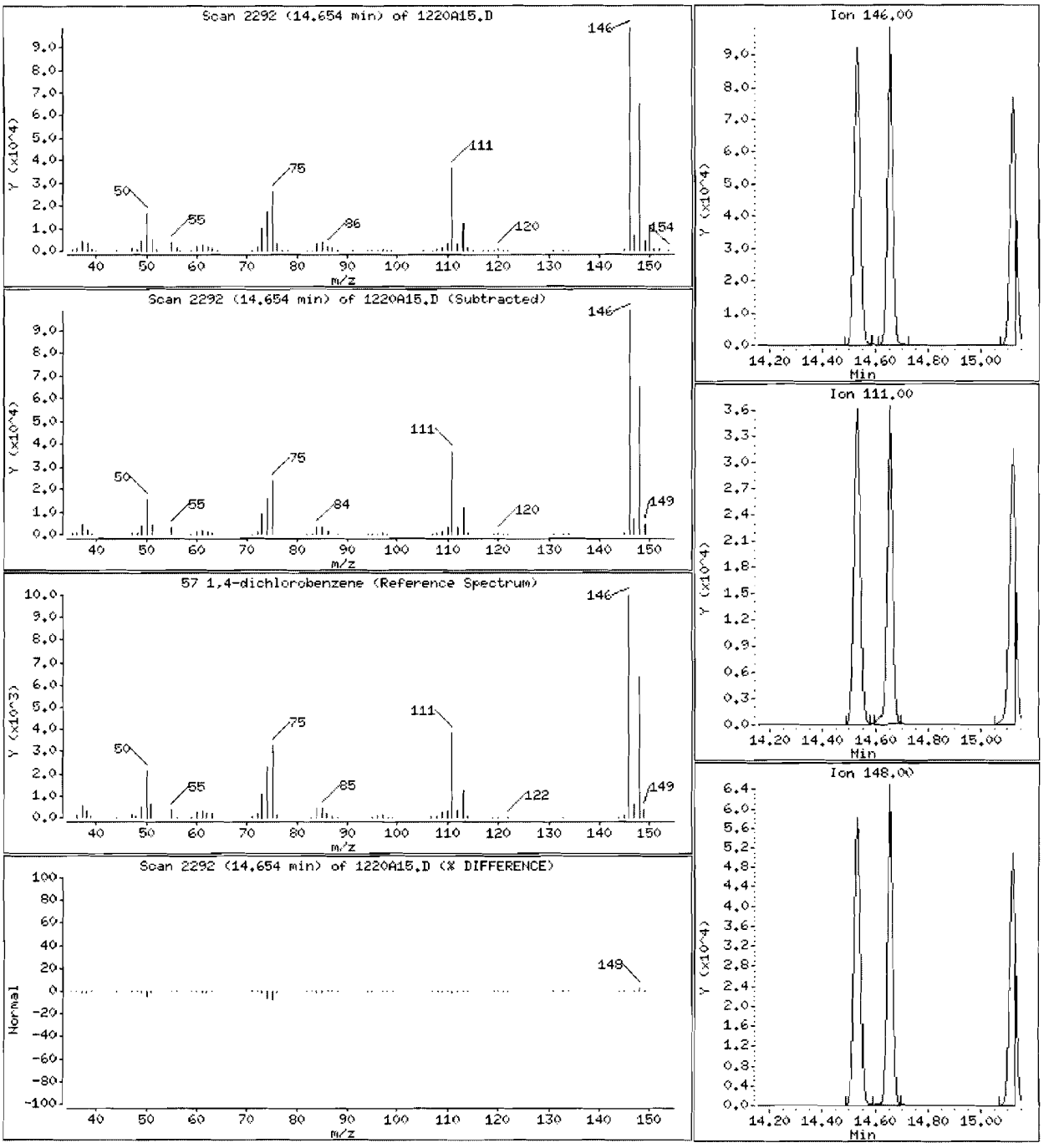
Operator: kl

Column phase:

Column diameter: 0.18

57 1,4-dichlorobenzene

Concentration: 103.43 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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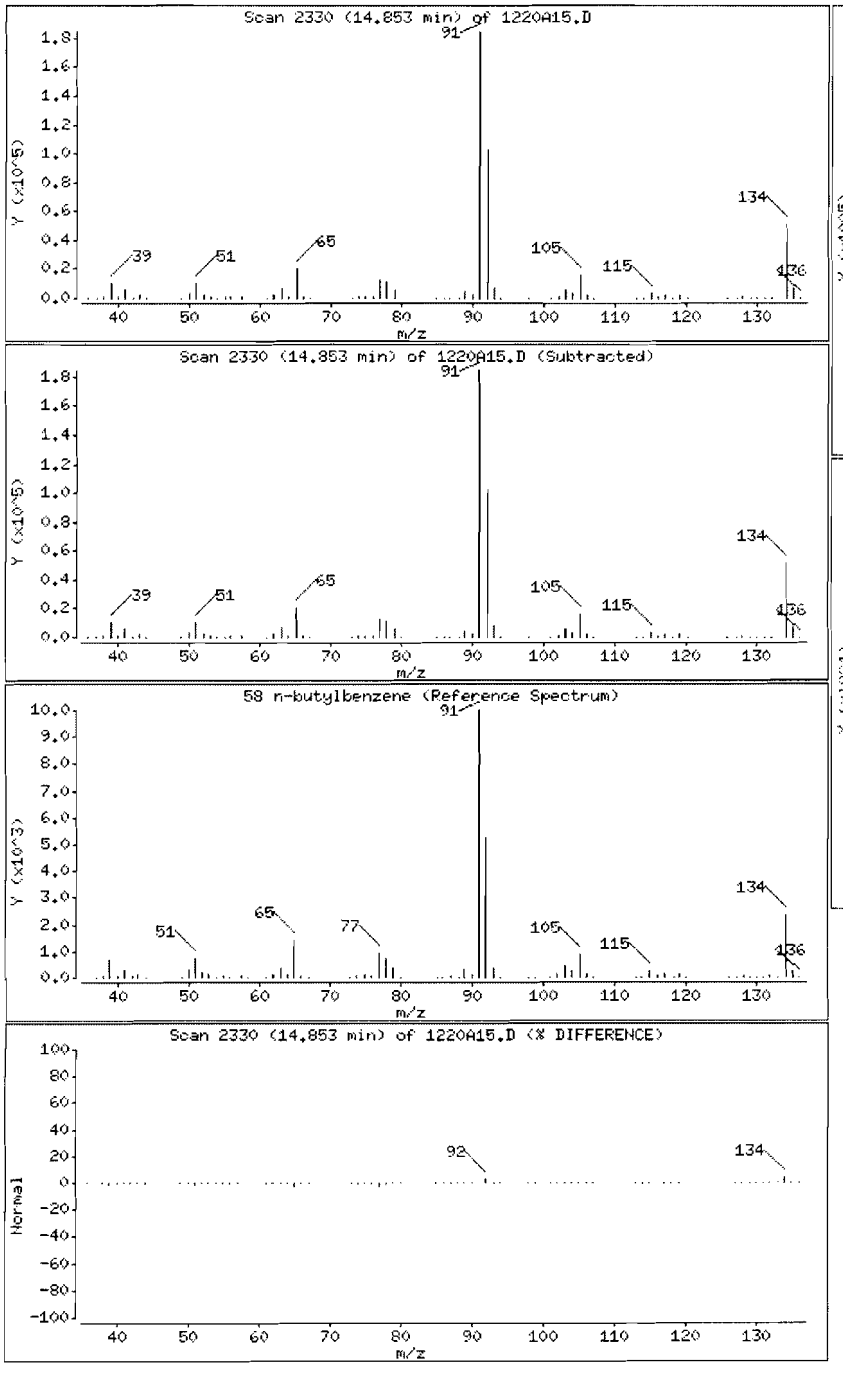
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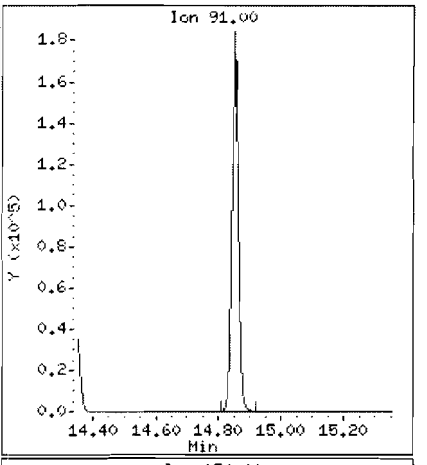
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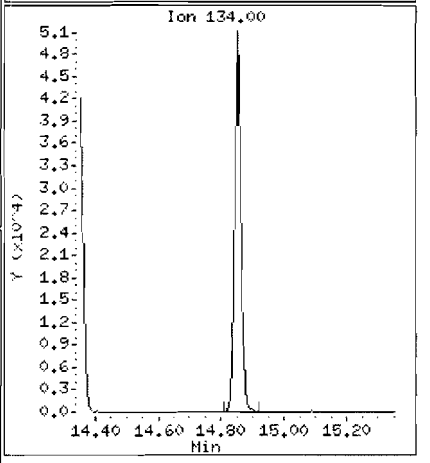
Column diameter: 0.18

58 n-butylbenzene

Concentration: 107.59 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

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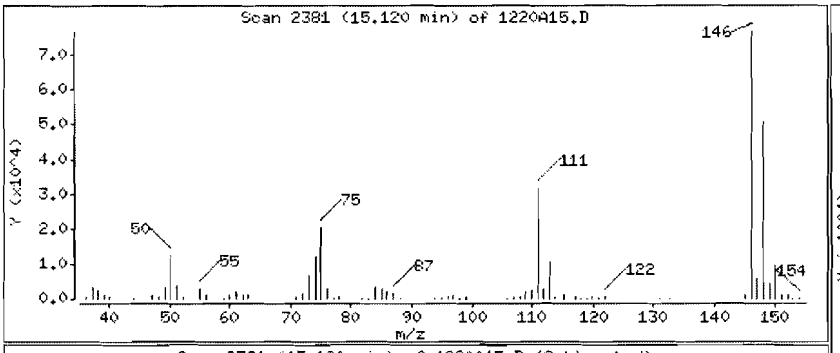
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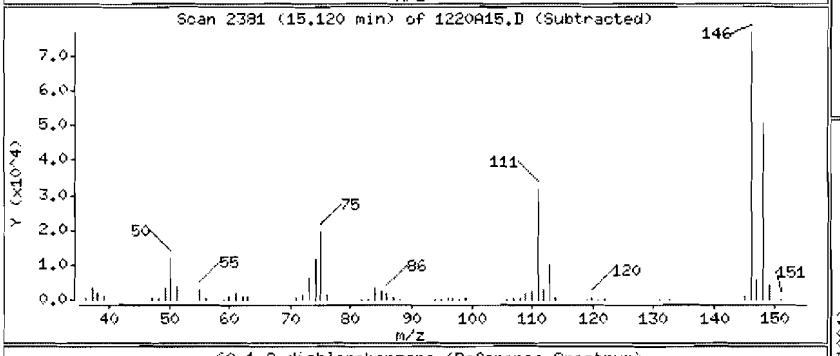
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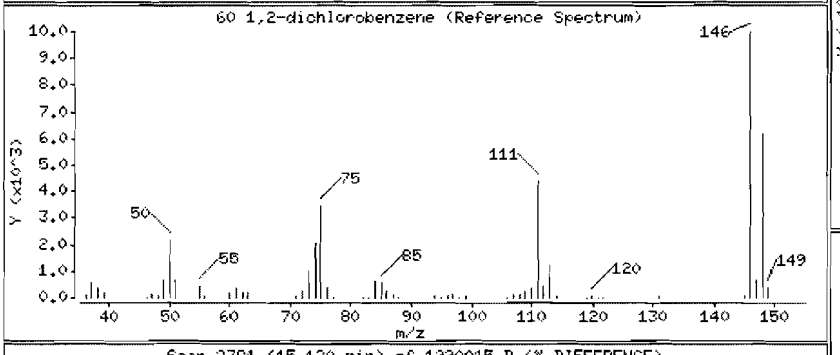
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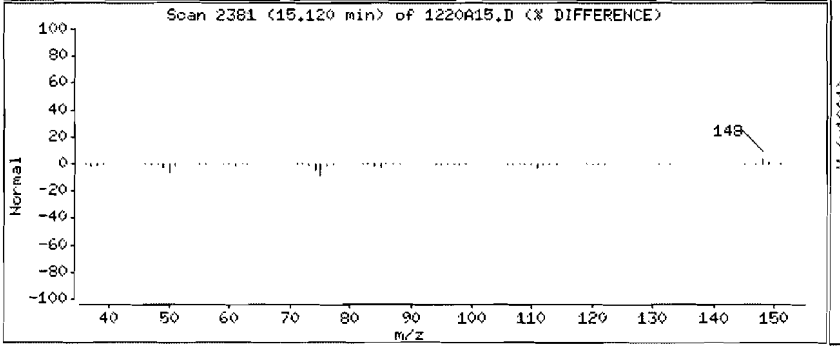
60 1,2-dichlorobenzene

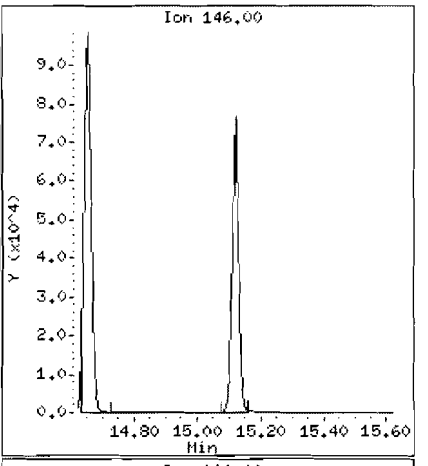
Concentration: 95.47 ngs

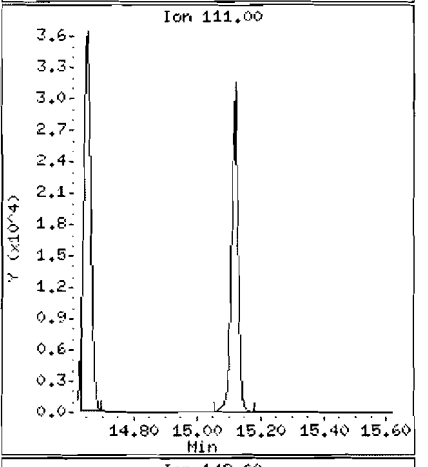


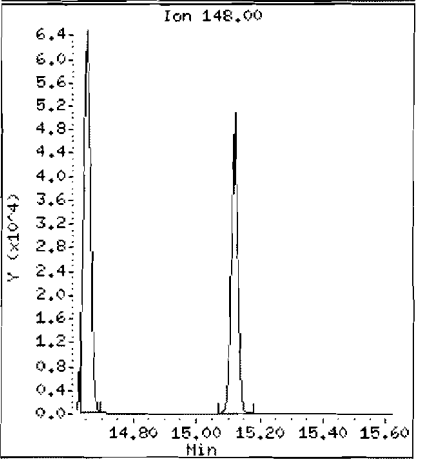












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

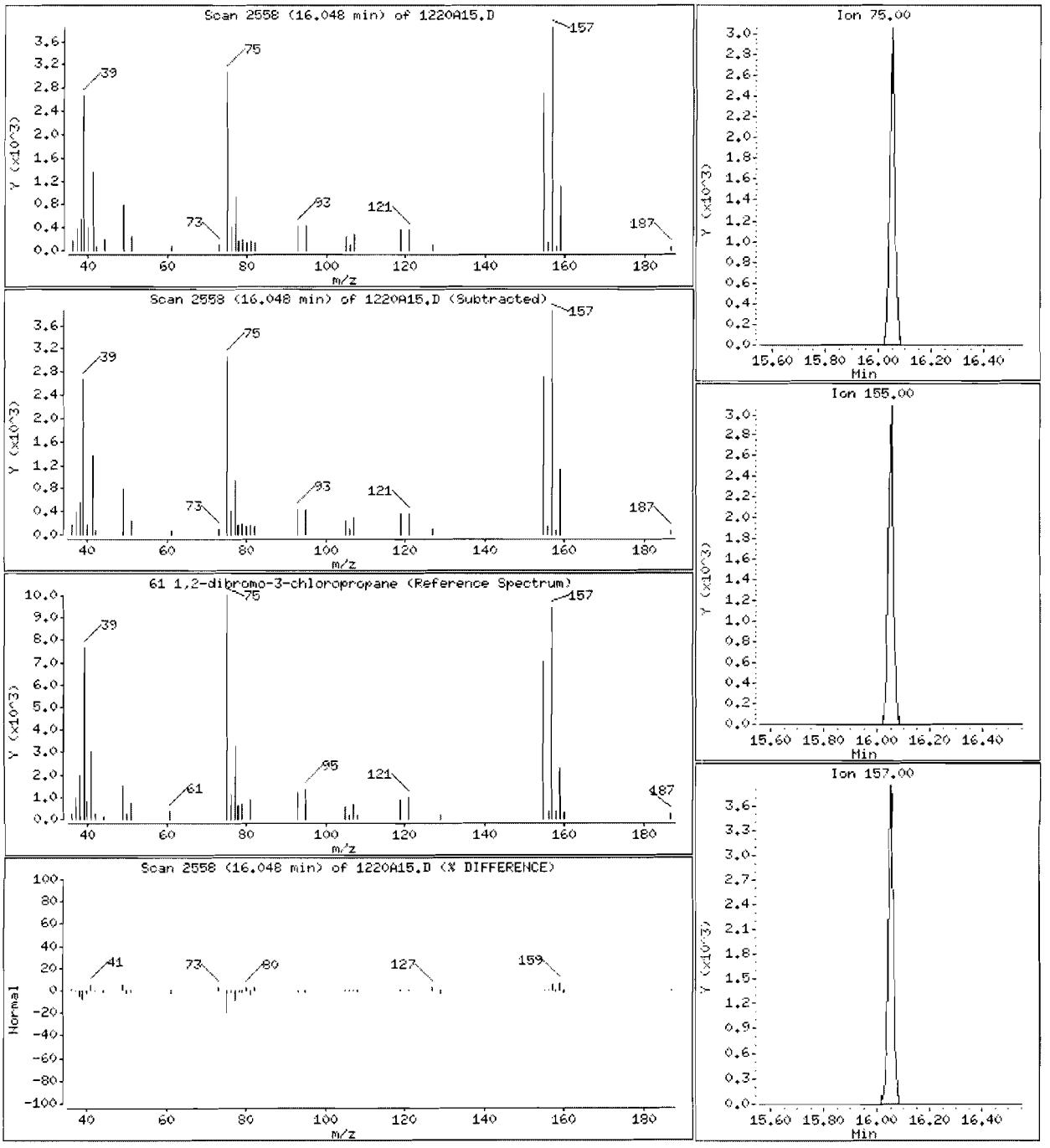
Operator: kl

Column phase:

Column diameter: 0.18

61 1,2-dibromo-3-chloropropane

Concentration: 88.44 ngs



Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

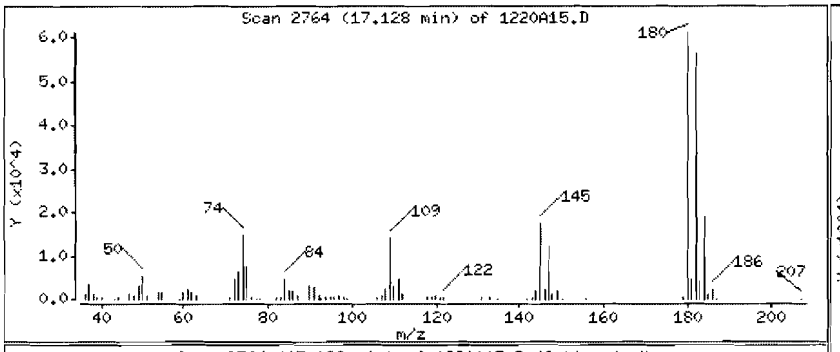
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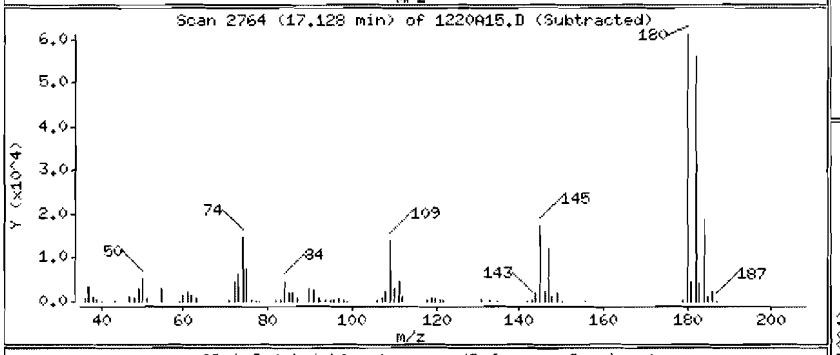
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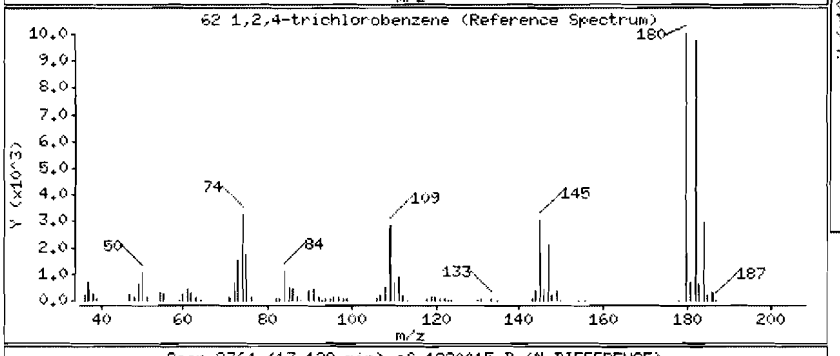
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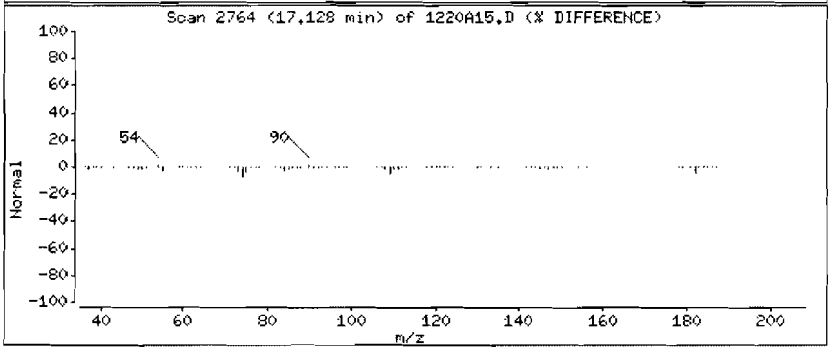
62 1,2,4-trichlorobenzene

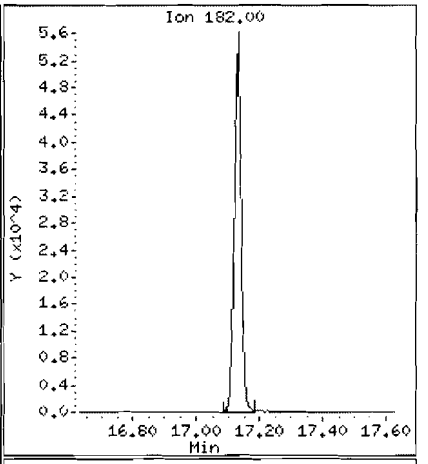
Concentration: 98.63 ngs

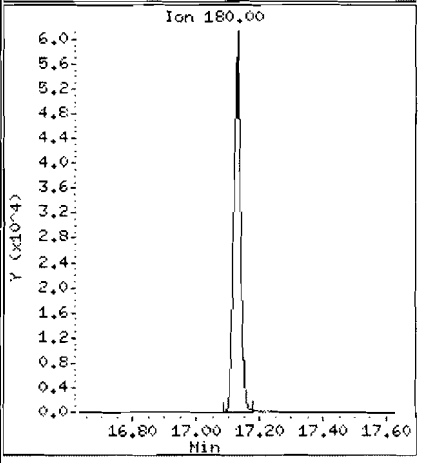












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

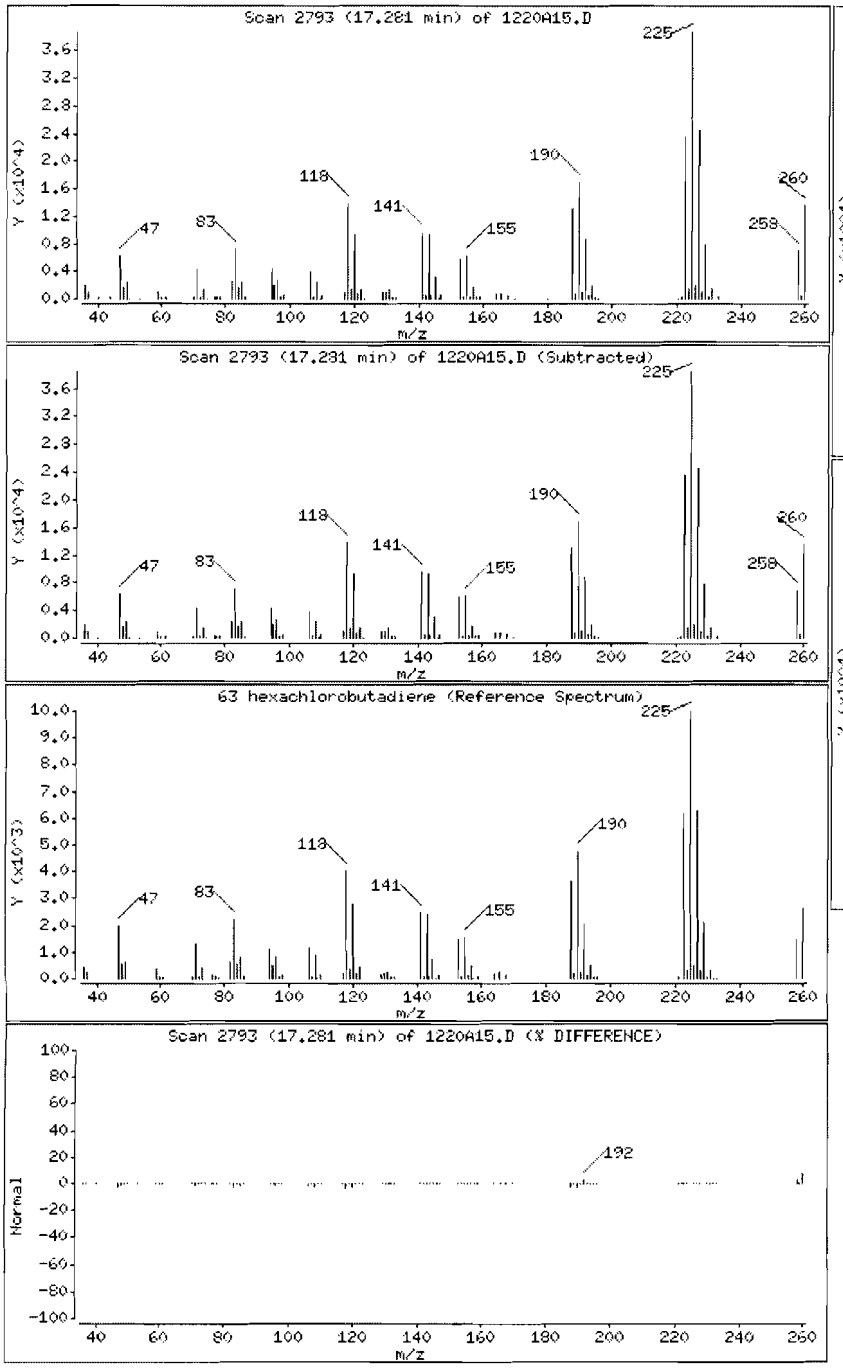
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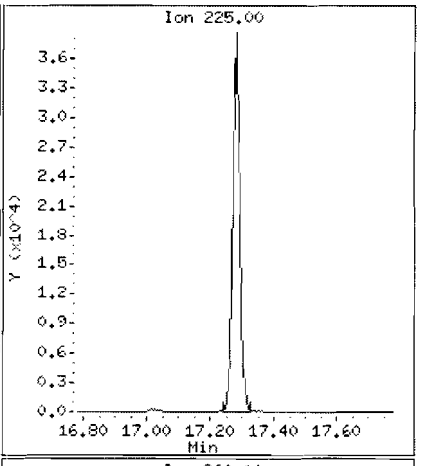
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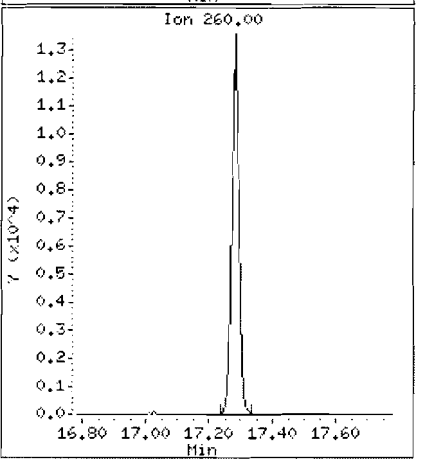
Column diameter: 0.18

63 hexachlorobutadiene

Concentration: 112.24 ngs







Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

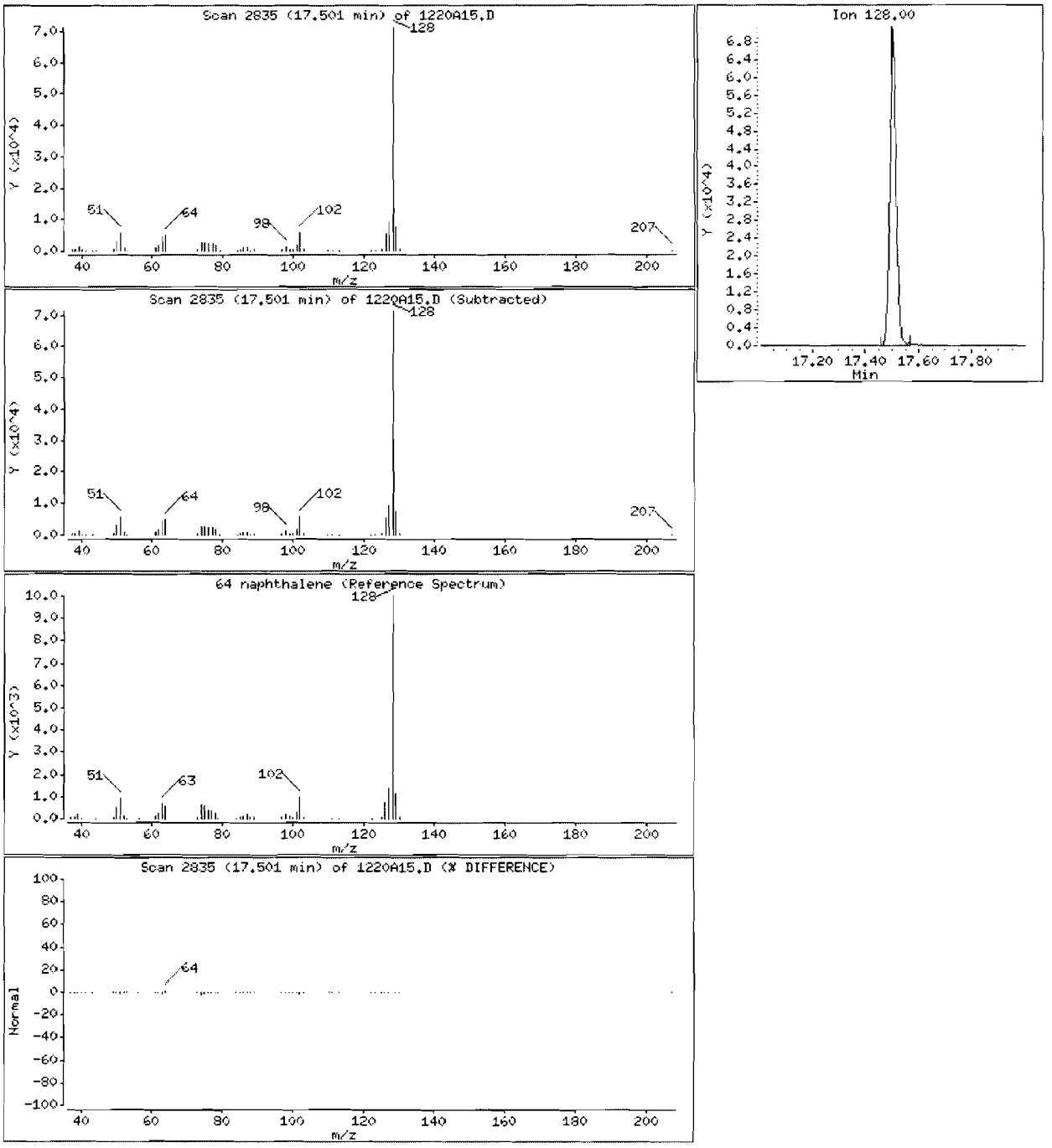
Operator: kl

Column phase:

Column diameter: 0.18

64 naphthalene

Concentration: 92.62 ngs



Data File: \\orgserv2\ff\chem\GCMSWOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

Purge Volume: 25.0

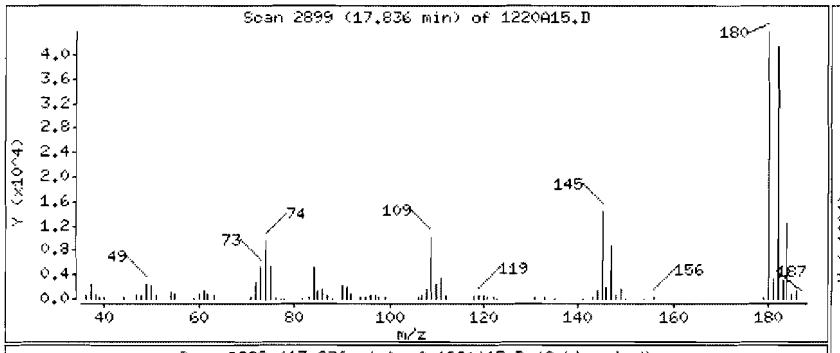
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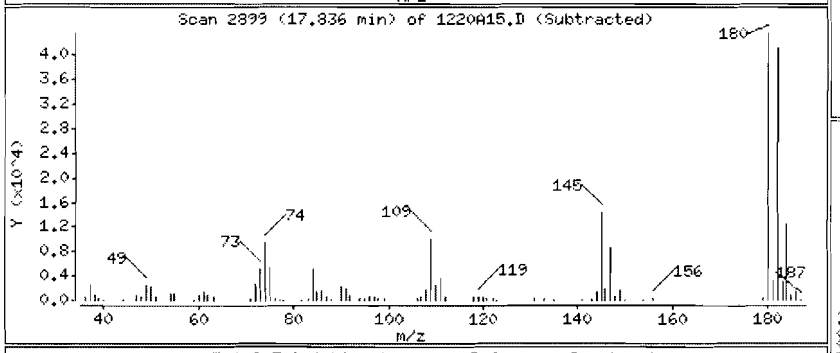
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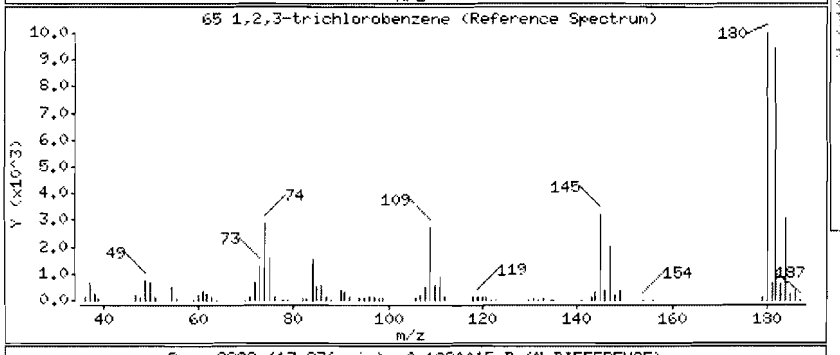
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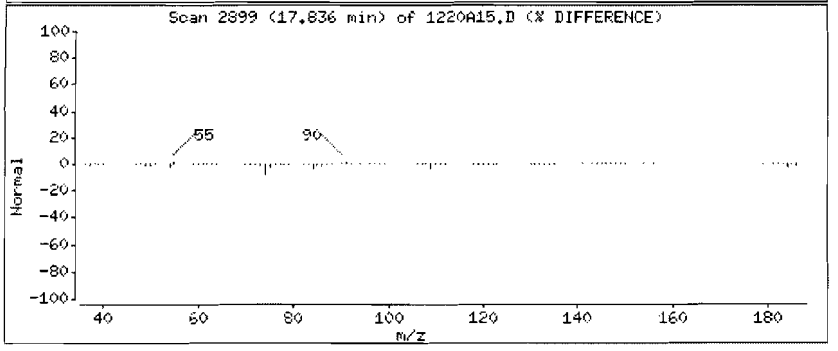
65 1,2,3-trichlorobenzene

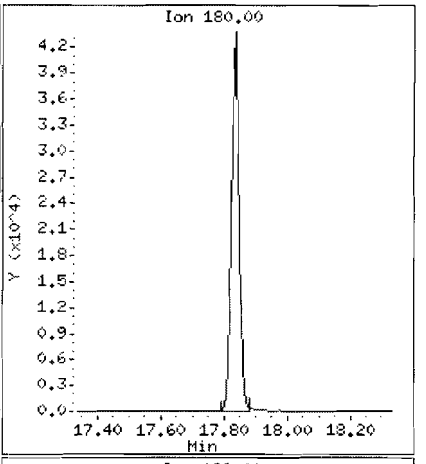
Concentration: 102.60 ngs

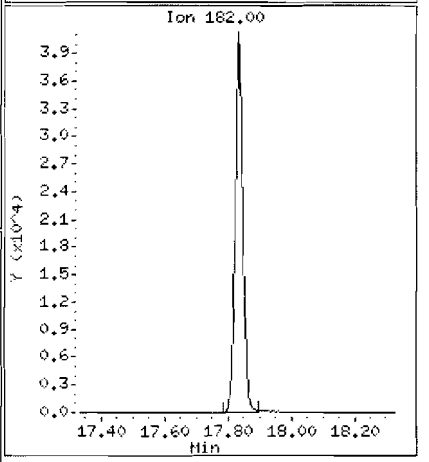












Data File: \\orgserv2\ff\chem\GCMSVOA\Bundy.i\121220.b\1220A15.D

Date : 20-DEC-2012 17:38

Client ID:

Instrument: Bundy.i

Sample Info: wg580980-5,31,25,,c

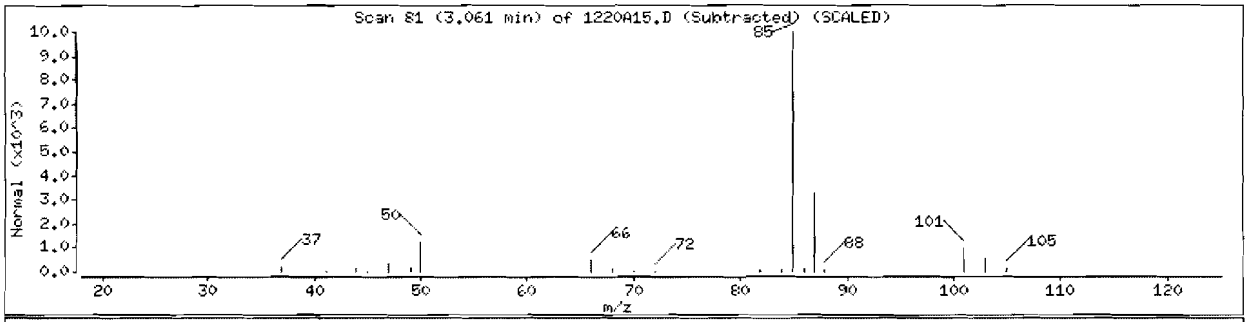
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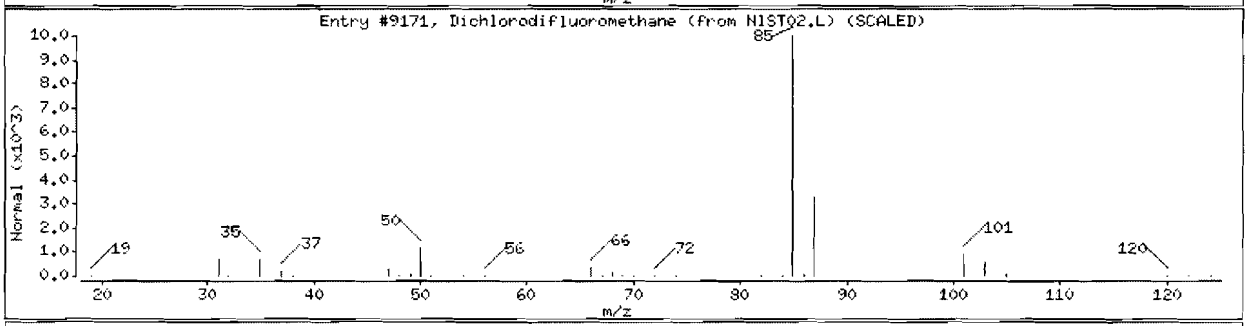
Operator: kl

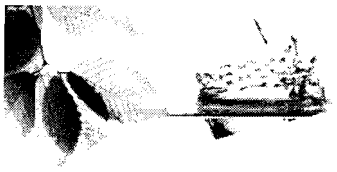
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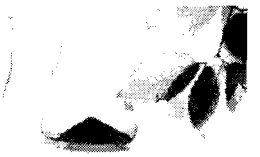
Column diameter: 0.18

Target Compound Search Match	CAS Number	Library	Lib Entry	Quality
Dichlorodifluoromethane	75-71-8	NIST02.L	9171	83









Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALTRA ANALYTICAL LABORATORIES, INC.

Altra WORK GROUP FLAGS (w/%)

Dec 29 2002, 11:57 am

Work Group: WG580980 for Department: 31 GC/MS - Volatiles

Created: 21-DEC-12 Fwd: Operator: KJ

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1223074-01	RW	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
L1223074-02	DUP	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
L1223074-03	STEFF	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
L1223074-04	DIST	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
L1223074-05	MW-4	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
L1223074-06	MW-11	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
L1223074-07	FIELD BLANK	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
L1223074-08	TRIP BLANK	S	524.2	DW	DONE	U	0102	1228	80	Vial-I/P
WG580980-1	Laboratory Control S	S	524.2	DW	DONE	U				
WG580980-2	Laboratory Method Bl	S	524.2	DW	DONE	U				
WG580980-3	Duplicate Sample	S	524.2	DW	DONE	U				
WG580980-4	Matrix Spike	S	524.2	DW	DONE	U				
WG580980-5	Matrix Spike Duplica	S	524.2	DW	DONE	U				

Comments:

WG580980-3	L1223074-02
WG580980-4	L1223074-01
WG580980-5	L1223074-01

Page 1

BUNDY.i	KL	**12/20/12**	
BFB:v4147	CCAL:V4135	IS/SS: v4020	
	ICAL:V4145		
1 iblk	524		iblk
1 BFB	BFB		BFB1220A
1 BFB	BFB		BFB1220B
1 524 CCV	524 PH<2	CL FREE	1220A01
2 iblk	524 PH<2	CL FREE	1220A02
3 METHOD BLANK	524 PH<2	CL FREE	1220A03
4 THM CHECK	524 PH<2	CL FREE	1220A04
5 I1223074-07,31,25,,a	524 PH<2	CL FREE	1220A05
6 I1223074-08,31,25,,a	524 PH<2	CL FREE	1220A06
7 I1223074-01,31,25,,a	524 PH<2	CL FREE	1220A07
8 I1223074-02,31,25,,a	524 PH<2	CL FREE	1220A08
9 I1223074-03,31,25,,a	524 PH<2	CL FREE	1220A09
10 I1223074-04,31,25,,a	524 PH<2	CL FREE	1220A10
11 I1223074-05,31,25,,a	524 PH<2	CL FREE	1220A11
12 I1223074-06,31,25,,a	524 PH<2	CL FREE	1220A12
13 I1223074-02DUP,31,25,,b	524 PH<2	CL FREE	1220A13
14 I1223074-01MS,31,25,,b	524 PH<2	CL FREE	1220A14
15 I1223074-01MSD,31,25,,c	524 PH<2	CL FREE	1220A15

BUNDY.i KL **12/13/12**

BFB:v4147 CCAL:V4135 IS/SS: v4020
ICAL:V4145

1 std	524		std
1 BFB	BFB		BFB1213A
1 BFB	BFB		BFB1213B
1 524 CCV	524 PH<2	CL FREE	1213A01
2 IBLK	524 PH<2	CL FREE	1213A02
3 IBLK	524 PH<2	CL FREE	1213A03
4 524 LVL 2	524 PH<2	CL FREE	1213A04
5 524 LVL 1	524 PH<2	CL FREE	1213A05
6 524 LVL 3	524 PH<2	CL FREE	1213A06
7 524 LVL 4	524 PH<2	CL FREE	1213A07
8 524 LVL 5	524 PH<2	CL FREE	1213A08
9 524 LVL 6	524 PH<2	CL FREE	1213A09
10 524 LVL 7	524 PH<2	CL FREE	1213A10
11 524 LVL 8	524 PH<2	CL FREE	1213A11
12 IBLK	524 PH<2	CL FREE	1213A12
13 IBLK	524 PH<2	CL FREE	1213A13
14 524 ICV	524 PH<2	CL FREE	1213A14

BUNDY.i	KL	**12/14/12**	
BFB:v4147	CCAL:V4135	IS/SS: v4020	
	ICAL:V4145		
1 iblk	524		iblk
1 BFB	BFB		BFB1214A
1 BFB	BFB		BFB1214B
1 524 ICV	524 PH<2	CL FREE	1214A01