

eCVP

Electronic Comprehensive Validation Package



Air Toxics Ltd.

180 Blue Ravine Road Ste. B
Folsom, CA 95630
Phone: 916/985-1000
Fax: 916/985-1020
eMail: atl@airtoxics.com
www.airtoxics.com

**COMPREHENSIVE VALIDATION PACKAGE**

Modified TO-15

INVENTORY SHEET

Work Order #: 0504472

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Comments:

Completed by:

Barbara Jo Pappas

(Signature)

Barbara Jo Pappas / Document Control

(Print Name & Title)

5/12/05

(Date)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0504472

Work Order Summary

CLIENT:	Mr. Jeremy Wolf ERM-New England 1159 Pittsford-Victor Road Suite 200 Pittsford, NY 14534	BILL TO:	Mr. Jeremy Wolf ERM-New England 1159 Pittsford-Victor Road Suite 200 Pittsford, NY 14534
PHONE:	585-387-0510 x26	P.O. #	0021427
FAX:	585-387-0603	PROJECT #	0021427 Phase 2 NYSDEC-Former Raeco
DATE RECEIVED:	04/25/2005	CONTACT:	Ausha Scott
DATE COMPLETED:	05/10/2005		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	IA-A01	Modified TO-15	3.5 "Hg
02A	SV-A01	Modified TO-15	6.5 "Hg
03A	IA-A02	Modified TO-15	6.5 "Hg
03AA	IA-A02 Duplicate	Modified TO-15	6.5 "Hg
04A	SV-A02	Modified TO-15	4.5 "Hg
05A	IA-A03	Modified TO-15	6.0 "Hg
06A	AA-R01	Modified TO-15	7.0 "Hg
07A	Lab Blank	Modified TO-15	NA
08A	CCV	Modified TO-15	NA
09A	LCS	Modified TO-15	NA

CERTIFIED BY:

Laboratory Director

DATE: 05/10/05

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
ERM-New England
Workorder# 0504472

Six 6 Liter Summa Canister (100% Certified) samples were received on April 25, 2005. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Blank and standards	Zero air	Nitrogen
Dilutions for initial calibration	Dynamic dilutions or static using canisters.	Syringe dilutions may also be utilized.
BFB acceptance criteria	CLP protocol	SW-846 protocol
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Sample Extract		
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	Sample Condition
IA-A01	0504472-01A	4/21/2005	4/25/2005	NA	14	5/ 5/2005	NA	Good
SV-A01	0504472-02A	4/21/2005	4/25/2005	NA	14	5/ 5/2005	NA	Good
IA-A02	0504472-03A	4/21/2005	4/25/2005	NA	14	5/ 5/2005	NA	Good
IA-A02 Duplicate	0504472-03AA	4/21/2005	4/25/2005	NA	15	5/ 6/2005	NA	Good
SV-A02	0504472-04A	4/21/2005	4/25/2005	NA	15	5/ 6/2005	NA	Good
IA-A03	0504472-05A	4/21/2005	4/25/2005	NA	15	5/ 6/2005	NA	Good
AA-R01	0504472-06A	4/21/2005	4/25/2005	NA	15	5/ 6/2005	NA	Good
Lab Blank	0504472-07A	NA	NA	NA	NA	5/ 5/2005	NA	Good
CCV	0504472-08A	NA	NA	NA	NA	5/ 5/2005	NA	Good
LCS	0504472-09A	NA	NA	NA	NA	5/ 5/2005	NA	Good

Sample Results and Raw Data

AIR TOXICS LTD.

Client Sample ID: IA-A01

Lab ID#: 0504472-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050510	Date of Collection: 4/21/05
Dil. Factor:	1.52	Date of Analysis: 5/5/05 07:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.15	2.5	0.75	12
Freon 114	0.15	Not Detected	1.1	Not Detected
Chloromethane	0.15	0.47	0.31	0.98
Vinyl Chloride	0.15	Not Detected	0.39	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Bromomethane	0.15	Not Detected	0.59	Not Detected
Chloroethane	0.15	Not Detected	0.40	Not Detected
Freon 11	0.15	1.5	0.85	8.6
Ethanol	0.76	2.2	1.4	4.2
Freon 113	0.15	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Acetone	0.76	4.9	1.8	12
2-Propanol	0.76	Not Detected	1.9	Not Detected
Carbon Disulfide	0.76	Not Detected	2.4	Not Detected
Methylene Chloride	0.30	0.35	1.0	1.2
Methyl tert-butyl ether	0.76	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.15	0.24	0.62	0.99
2-Butanone (Methyl Ethyl Ketone)	0.76	Not Detected	2.2	Not Detected
cis-1,2-Dichloroethene	0.15	5.6	0.60	22
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
Chloroform	0.15	Not Detected	0.74	Not Detected
1,1,1-Trichloroethane	0.15	1.0	0.83	5.6
Cyclohexane	0.76	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.15	Not Detected	0.96	Not Detected
Benzene	0.15	0.34	0.48	1.1
1,2-Dichloroethane	0.15	Not Detected	0.62	Not Detected
Heptane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.15	9.4	0.82	50
1,2-Dichloropropane	0.15	Not Detected	0.70	Not Detected
1,4-Dioxane	0.76	Not Detected	2.7	Not Detected
Bromodichloromethane	0.76	Not Detected	5.1	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.69	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
Toluene	0.15	0.96	0.57	3.6
trans-1,3-Dichloropropene	0.15	Not Detected	0.69	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	0.83	Not Detected
Tetrachloroethene	0.15	0.18	1.0	1.2
2-Hexanone	0.76	Not Detected	3.1	Not Detected
Dibromochloromethane	0.76	Not Detected	6.5	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: IA-A01

Lab ID#: 0504472-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050510	Date of Collection: 4/21/05
Dil. Factor:	1.52	Date of Analysis: 5/5/05 07:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.15	Not Detected	0.70	Not Detected
Ethyl Benzene	0.15	Not Detected	0.66	Not Detected
m,p-Xylene	0.15	0.25	0.66	1.1
o-Xylene	0.15	Not Detected	0.66	Not Detected
Styrene	0.15	Not Detected	0.65	Not Detected
Bromoform	0.76	Not Detected	7.8	Not Detected
Cumene	0.76	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.15	Not Detected	1.0	Not Detected
Propylbenzene	0.76	Not Detected	3.7	Not Detected
4-Ethyltoluene	0.76	Not Detected	3.7	Not Detected
1,3,5-Trimethylbenzene	0.15	Not Detected	0.75	Not Detected
1,2,4-Trimethylbenzene	0.15	Not Detected	0.75	Not Detected
1,3-Dichlorobenzene	0.15	Not Detected	0.91	Not Detected
1,4-Dichlorobenzene	0.15	Not Detected	0.91	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.79	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.91	Not Detected
1,2,4-Trichlorobenzene	0.76	Not Detected	5.6	Not Detected
Hexachlorobutadiene	0.76	Not Detected	8.1	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

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AMBIENT AIR METHOD T014/T015

```

Data file   : /chem/msd7.i/7-05may.b/7050510.d
Lab Smp Id  : 0504472-01A
Inj Date    : 05-MAY-2005 19:59
Operator    : BD
Smp Info    : 500mL Can#34338
Misc Info   : 3.5"Hg->5psi      ERM
Comment     :
Method      : /chem/msd7.i/7-05may.b/t141501a.m
Meth Date   : 09-May-2005 14:50 lsoohoo
Cal Date    : 01-MAY-2005 17:45
Als bottle  : 1
Dil Factor  : 1.52000
Integrator  : HP RTE
Target Version: 3.50
Processing Host: eeyore
Inst ID: msd7.i
Quant Type: ISTD
Cal File: 7050113.d
Compound Sublist: AT.sub
Sample Matrix: AIR

```

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
---------------	-------------------------

RT	EXP	RT (REL	RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET	RANGE	RATIO
						ON-COL	FINAL			
==	=====	=====	=====	=====	=====	(PPBV)	(PPBV)	=====	=====	=====
* 34	Bromochloromethane					CAS #:		74-97-5		
16.317	16.317	(1.000)		130	290612	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)		128	225064			47.67-	107.67	77.45
16.317	16.317	(1.000)		49	519875			141.21-	201.21	178.89

* 46	1,4-Difluorobenzene					CAS #:		540-36-3		
17.782	17.782	(1.000)		114	1272437	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)		88	159876			0.00-	42.60	12.56

* 62	Chlorobenzene-d5					CAS #:		3114-55-4		
22.123	22.123	(1.000)		117	1112535	10.0000		80.00-	120.00	100.00
22.095	22.123	(1.000)		82	497240			13.88-	73.88	44.69

\$ 41	1,2-Dichloroethane-d4					CAS #:		17060-07-0		
17.201	17.202	(1.054)		65	263489	9.45560	9.456	80.00-	120.00	100.00
17.201	17.202	(1.054)		67	148983			39.84-	99.84	56.54

\$ 53	Toluene-d8					CAS #:		2037-26-5		
19.883	19.884	(1.118)		98	1152318	9.86219	9.862	80.00-	120.00	100.00
19.883	19.884	(1.118)		70	96248			0.00-	38.58	8.35

CONCENTRATIONS									
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.883	19.884	(1.118)	100	788156			38.13-	98.13	68.40

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	669267	9.99478	9.995	80.00-	120.00	100.00
23.948	23.948	(1.082)	95	688705			73.19-	133.19	102.90
23.948	23.948	(1.082)	176	652084			66.66-	126.66	97.43

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.920	5.921	(0.363)	85	145466	1.65645	2.518	80.00-	120.00	100.00
5.920	5.948	(0.363)	87	48431			1.94-	61.94	33.29

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	24793	0.31146	0.4734	80.00-	120.00	100.00
7.303	7.303	(0.448)	52	9701			1.37-	61.37	39.13

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	74412	1.01271	1.539	80.00-	120.00	100.00
11.036	11.036	(0.676)	103	48192			34.23-	94.23	64.76

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	38116	1.46118	2.221	80.00-	120.00	100.00
12.031	12.031	(0.737)	43	8280			0.00-	47.77	21.73
12.031	12.031	(0.737)	46	14976			10.78-	70.78	39.29

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	325701	3.24106	4.926	80.00-	120.00	100.00
12.833	12.833	(0.786)	58	101102			1.60-	61.60	31.04

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	8907	0.23137	0.3517	80.00-	120.00	100.00
13.718	13.718	(0.841)	49	19004			169.05-	229.05	213.35
13.718	13.718	(0.841)	51	6263			26.82-	86.82	70.32

28 1,1-Dichloroethane						CAS #:	75-34-3		
14.989	14.990	(0.919)	63	14215	0.16147	0.2454	80.00-	120.00	100.00
14.989	14.990	(0.919)	65	4117			0.00-	58.73	28.96

31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.930	15.930	(0.976)	98	129805	3.69918	5.623	80.00-	120.00	100.00
15.930	15.930	(0.976)	61	288223			189.88-	249.88	222.04
15.930	15.930	(0.976)	96	203920			129.12-	189.12	157.10

37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.649	(1.020)	97	50957	0.67072	1.019	80.00-	120.00	100.00
16.648	16.649	(1.020)	99	32655			34.18-	94.18	64.00

					CONCENTRATIONS				
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
42 Benzene						CAS #:	71-43-2		
17.201	17.202	(0.967)	78	35494	0.22566	0.3430	80.00-	120.00	100.00
17.201	17.202	(0.967)	77	8746			0.00-	51.60	24.64

47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	545154	6.19051	9.410	80.00-	120.00	100.00
18.142	18.142	(1.020)	95	430442			47.95-	107.95	78.96
18.142	18.142	(1.020)	97	270297			20.27-	80.27	49.58

54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	122455	0.62945	0.9568	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	74553			29.68-	89.68	60.88

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	11737	0.11978	0.1821	80.00-	120.00	100.00
20.796	20.796	(0.940)	129	8308			39.13-	99.13	70.78
20.796	20.796	(0.940)	131	8047			38.26-	98.26	68.57

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	19455	0.16562	0.2517	80.00-	120.00	100.00
22.427	22.427	(1.014)	91	31816			116.47-	176.47	163.54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050510.d
Lab Smp Id: 0504472-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: BD

Calibration Date: 05-MAY-2005
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-05may.b/t141501a.m

Misc Info: 3.5"Hg->5psi ERM

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	273711	164227	383195	290612	6.17
46 1,4-Difluorobenze	1190742	714445	1667039	1272437	6.86
62 Chlorobenzene-d5	1102533	661520	1543546	1112535	0.91

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0504472-01A	
Level: LOW	Operator: BD
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 3.5"Hg->5psi	ERM

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.456	94.56	70-130
\$ 53 Toluene-d8	10.000	9.862	98.62	70-130
\$ 71 Bromofluorobenzene	10.000	9.995	99.95	70-130

Date : 05-MAY-2005 19:59

Client ID:

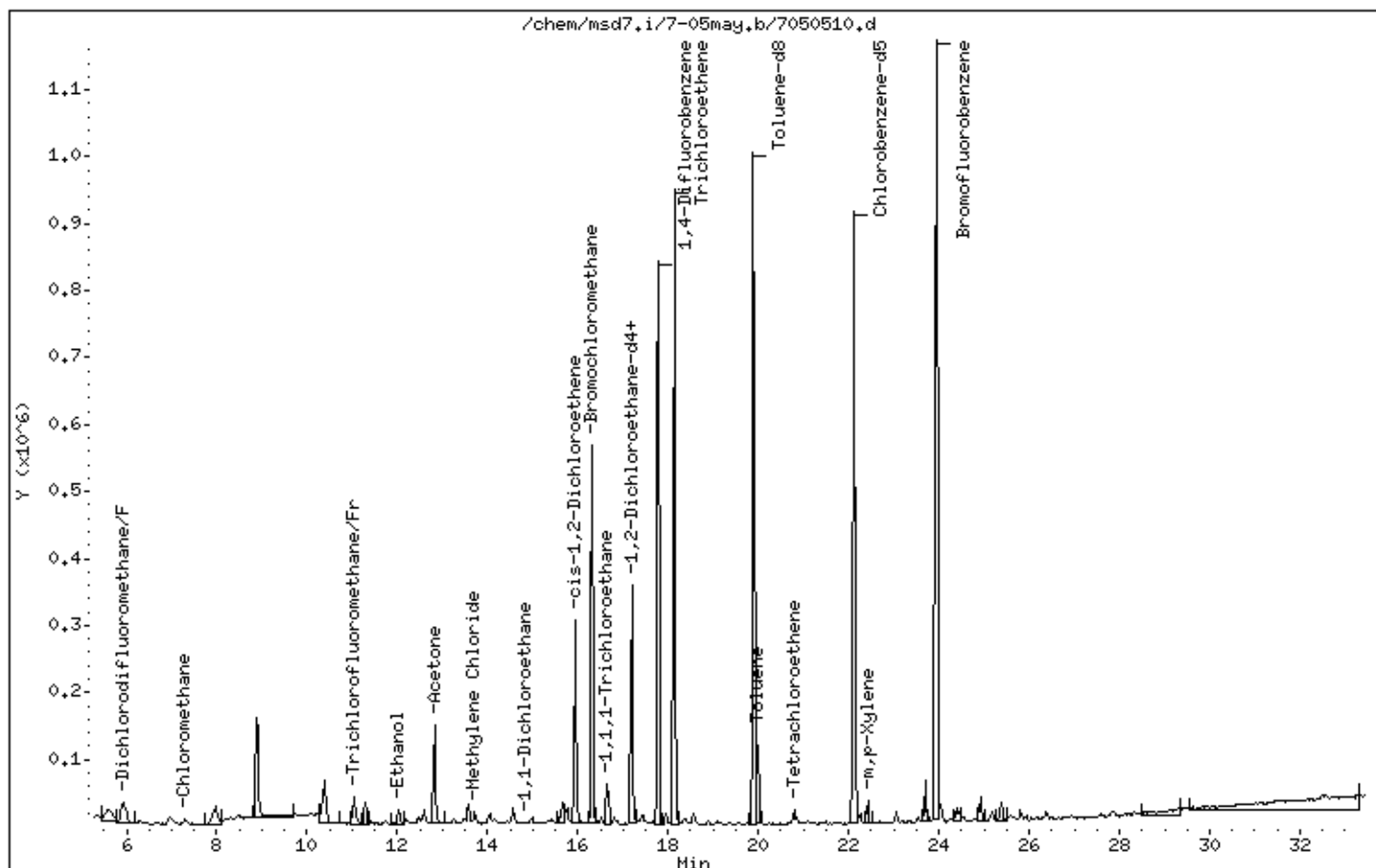
Instrument: msd7.i

Sample Info: 500mL Can#34338

Operator: BD

Column phase: RTX-624

Column diameter: 0.32



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

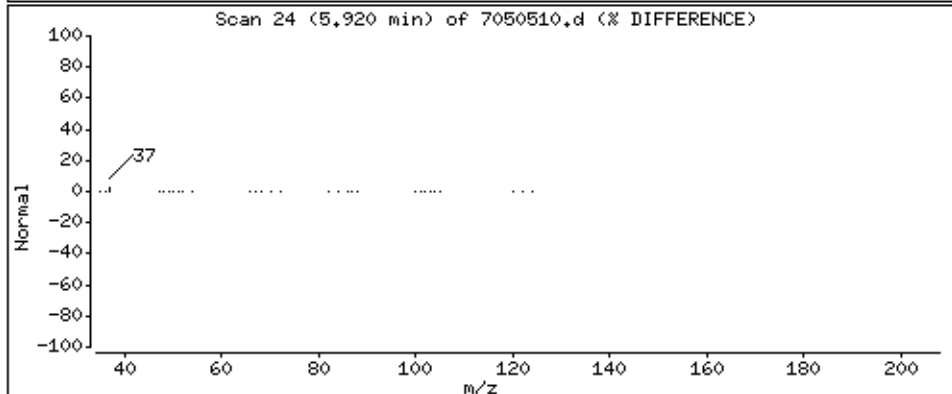
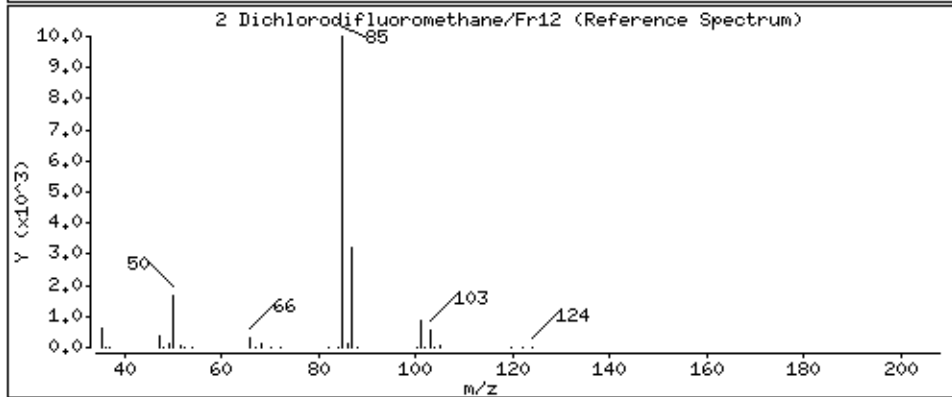
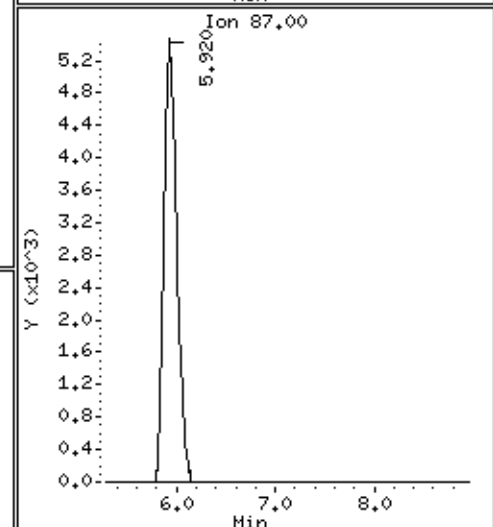
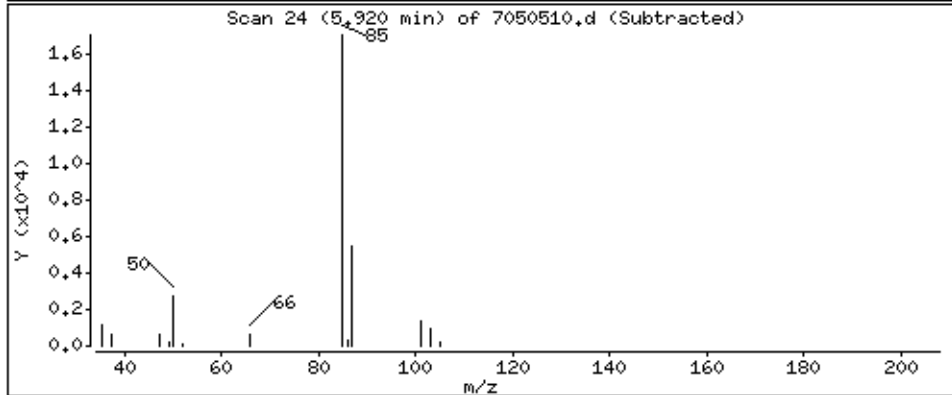
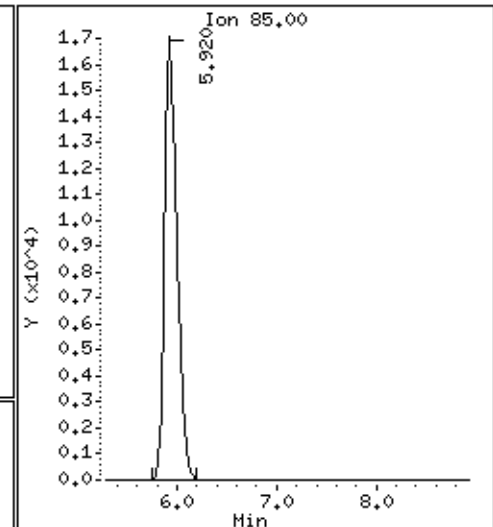
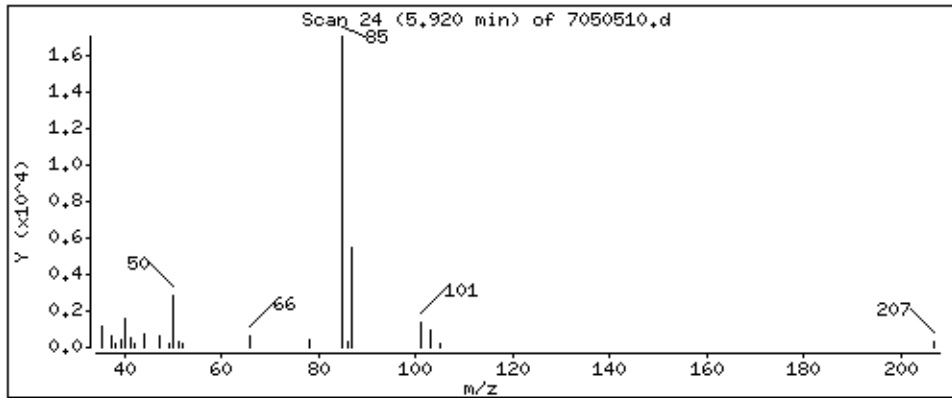
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

2 Dichlorodifluoromethane/Fr12

Concentration: 2.518 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

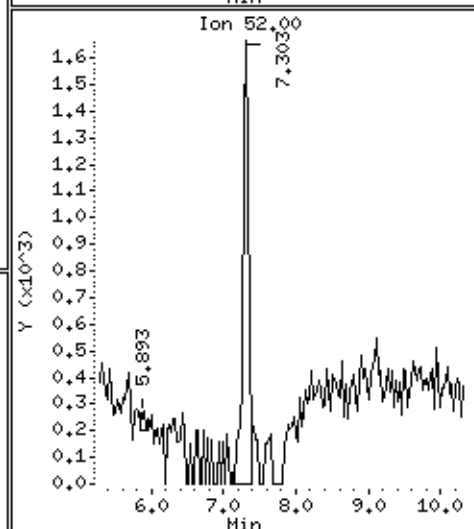
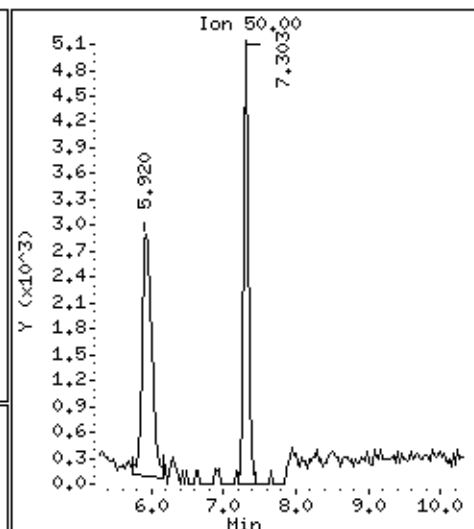
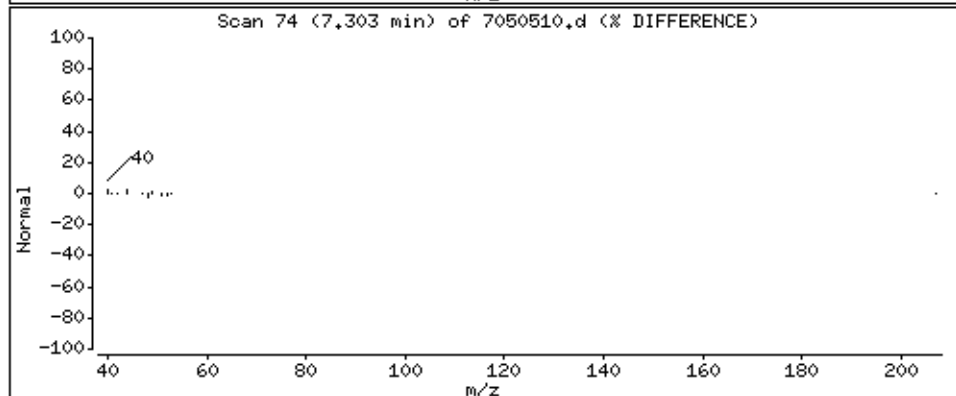
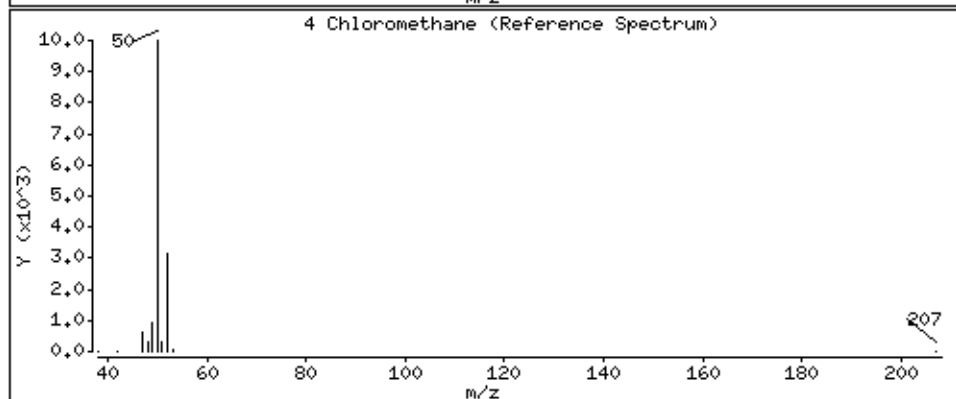
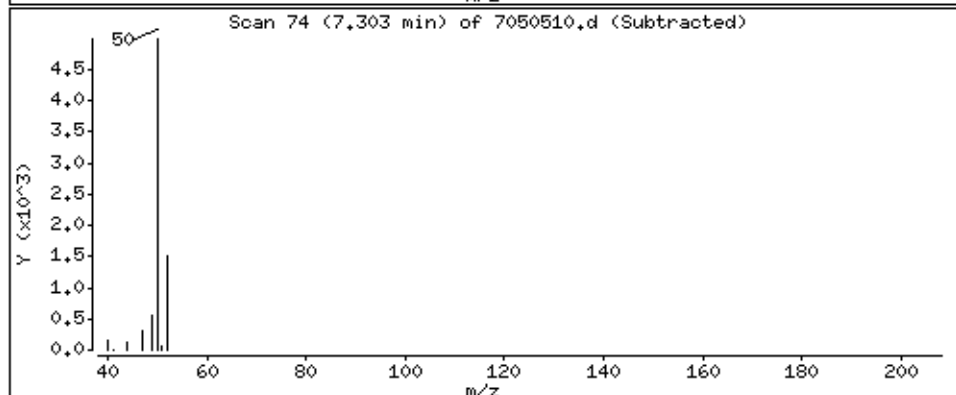
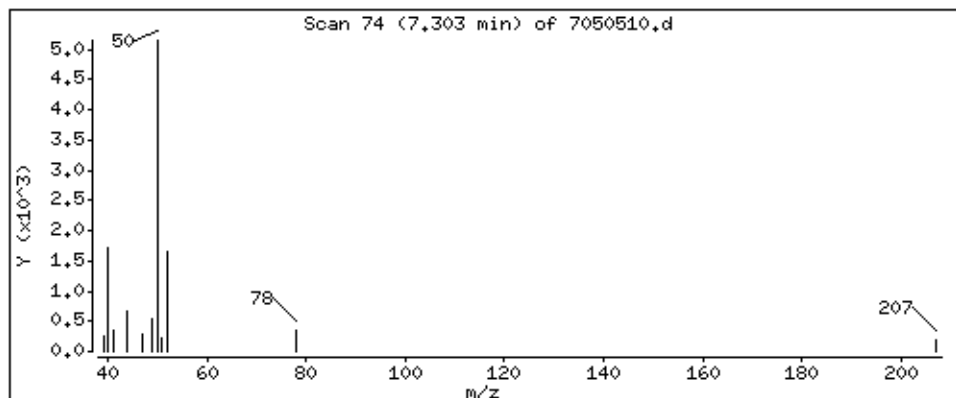
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

4 Chloromethane

Concentration: 0.4734 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

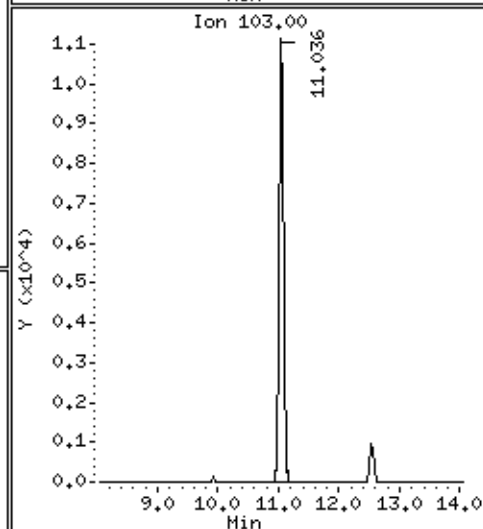
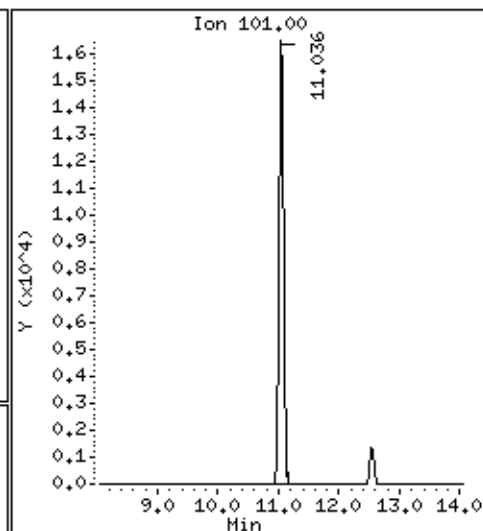
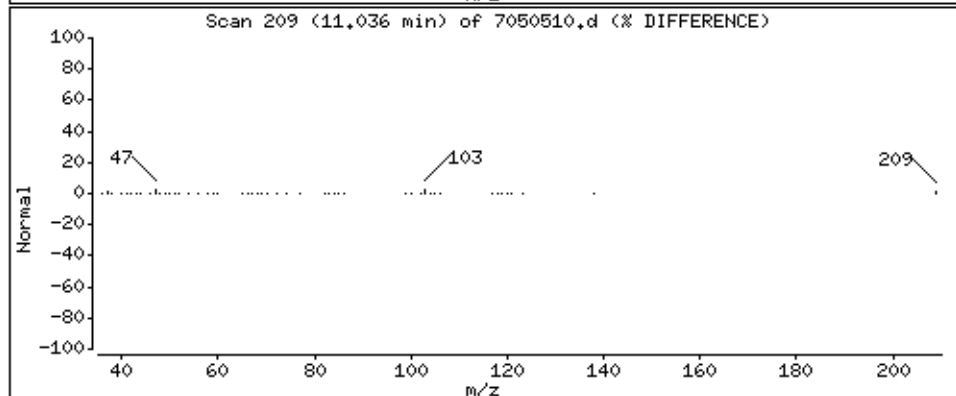
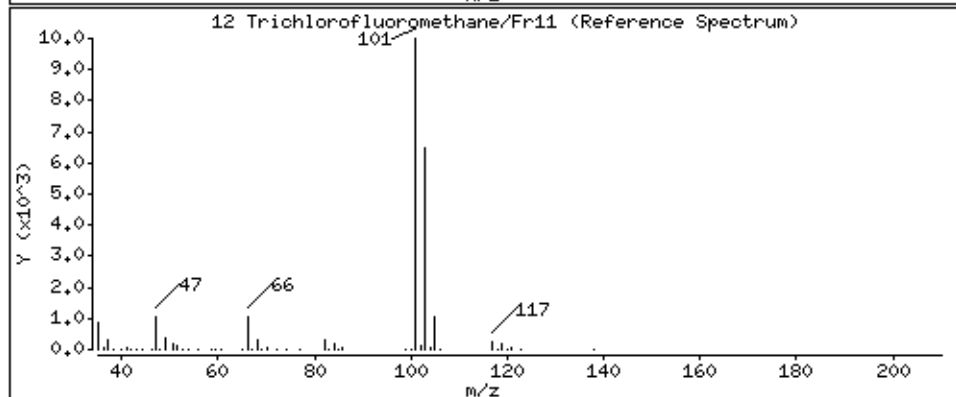
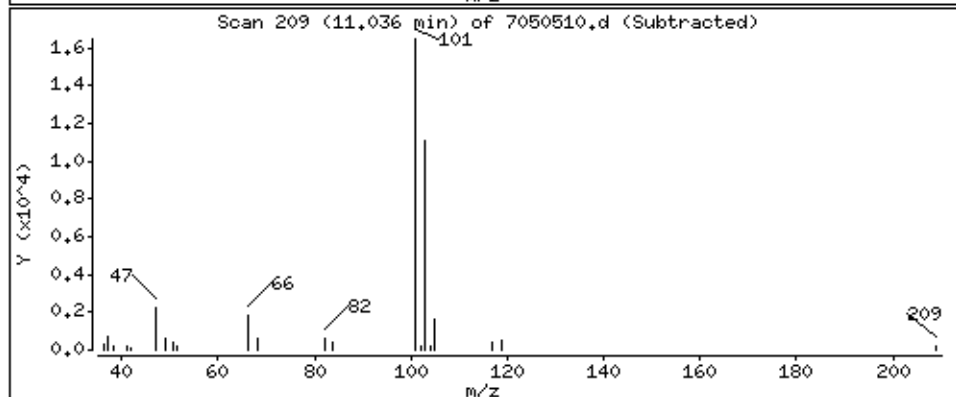
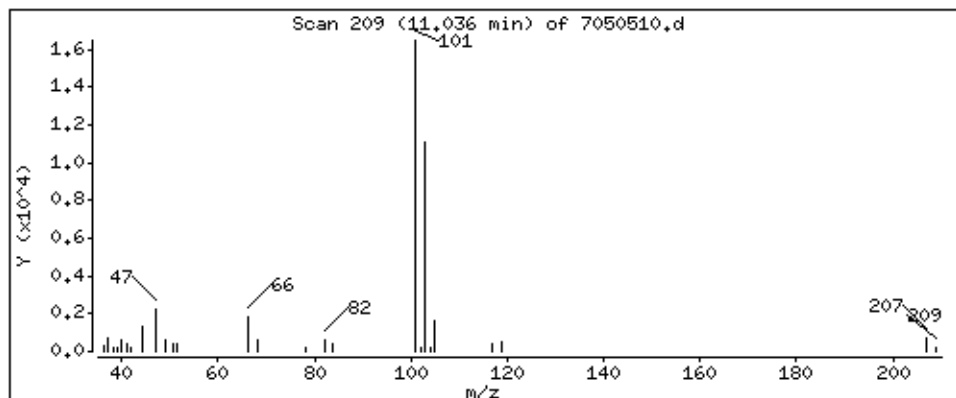
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

12 Trichlorofluoromethane/Fr11

Concentration: 1.539 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

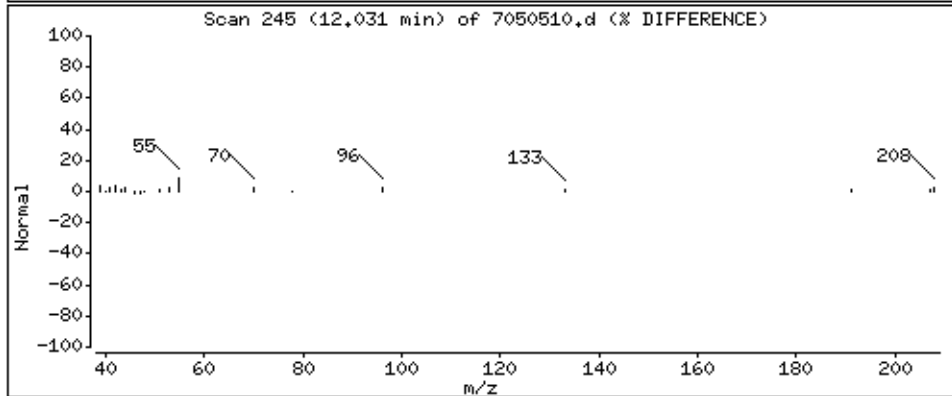
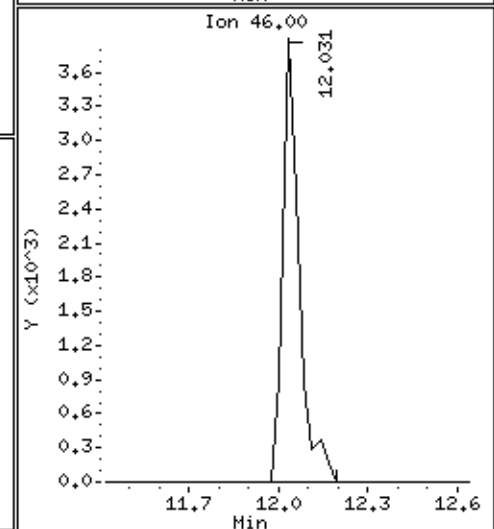
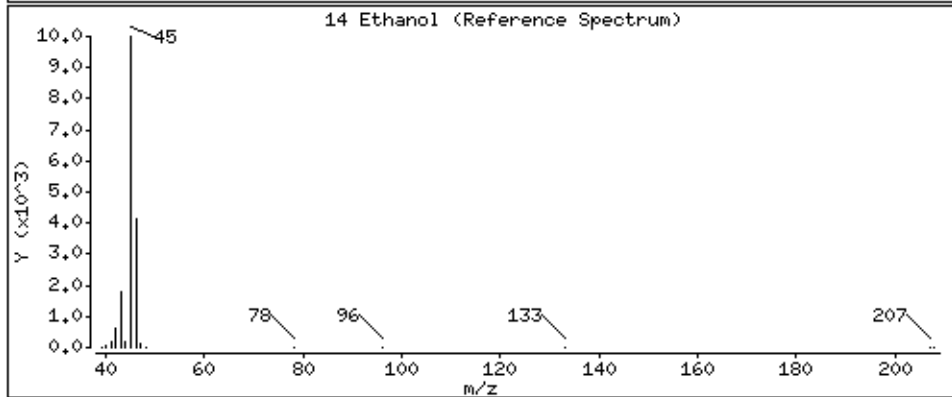
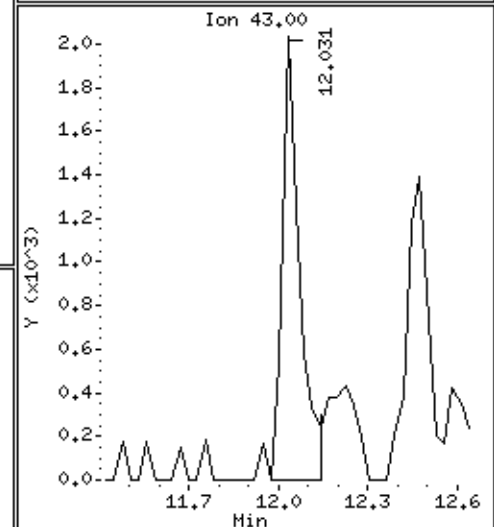
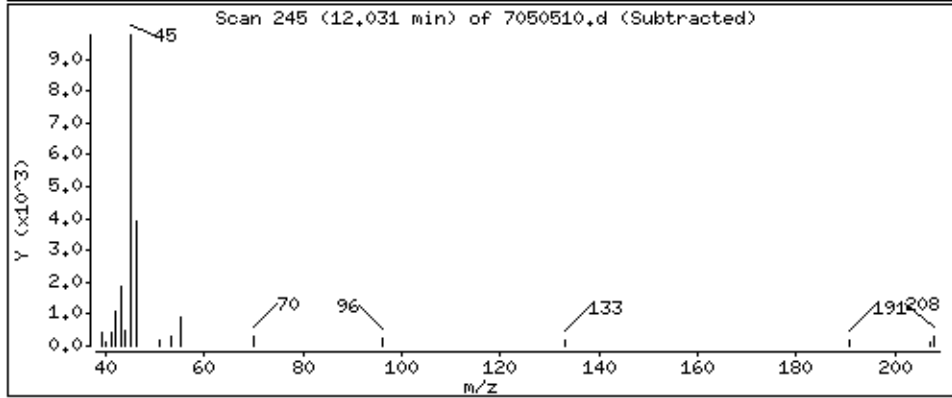
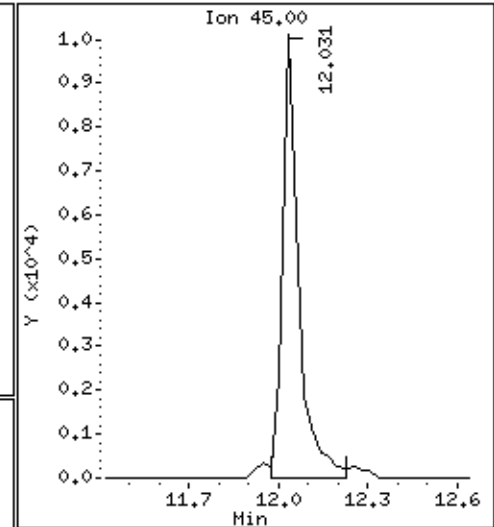
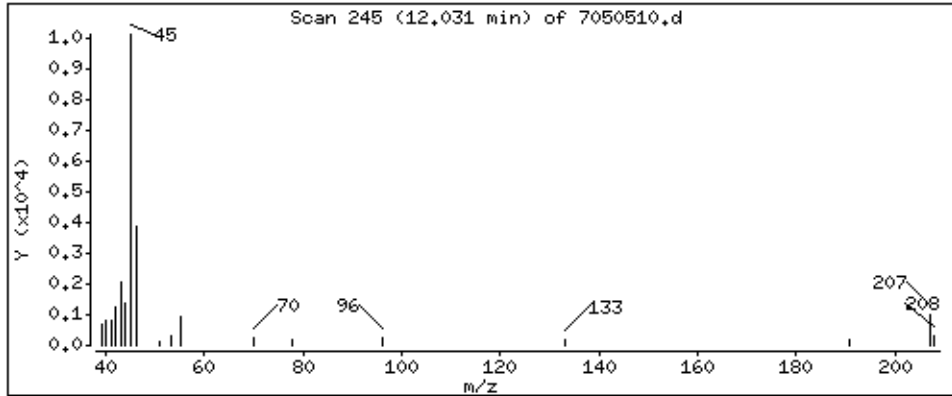
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

14 Ethanol

Concentration: 2.221 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

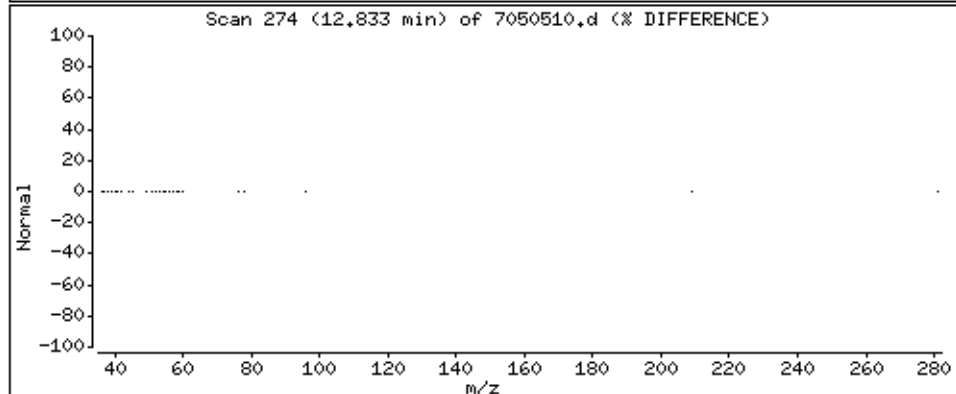
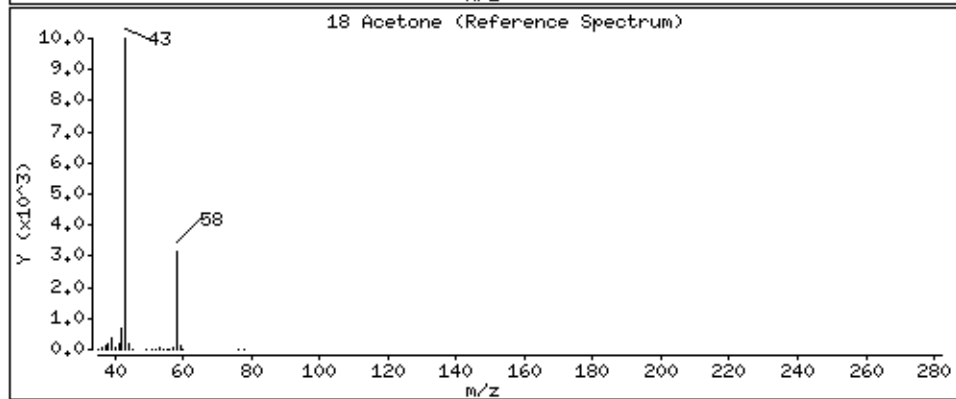
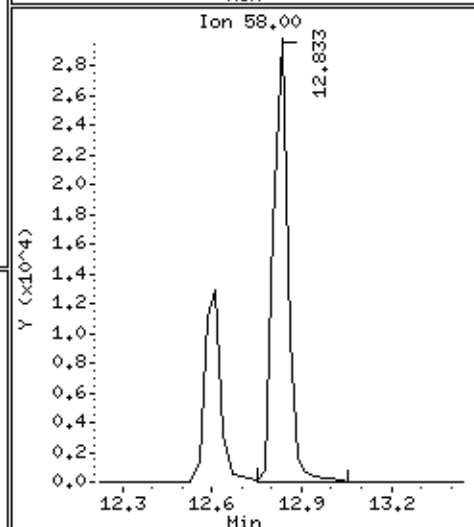
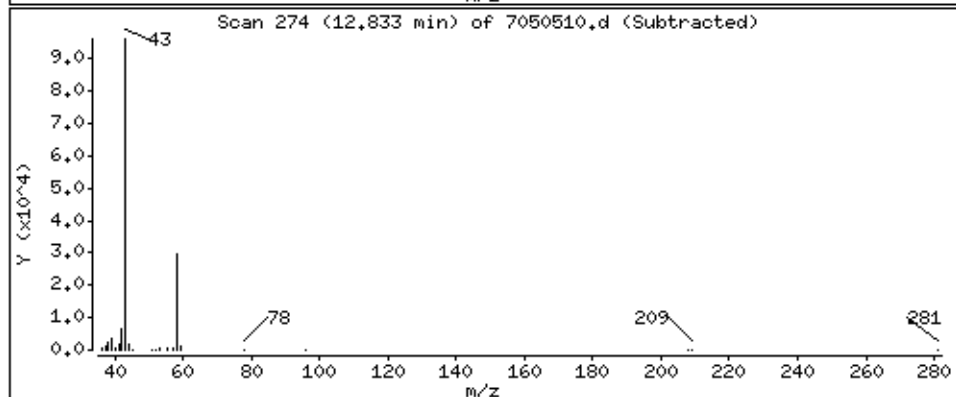
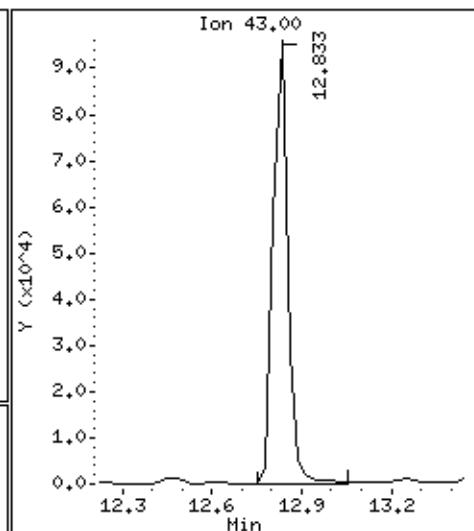
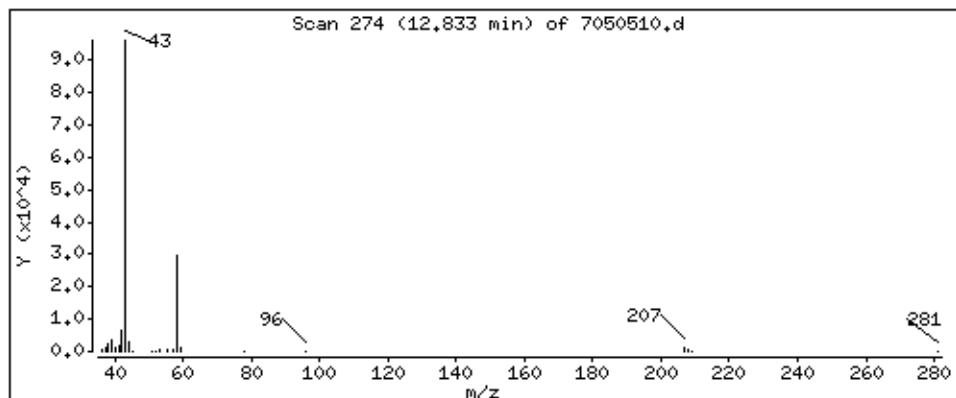
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

18 Acetone

Concentration: 4.926 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

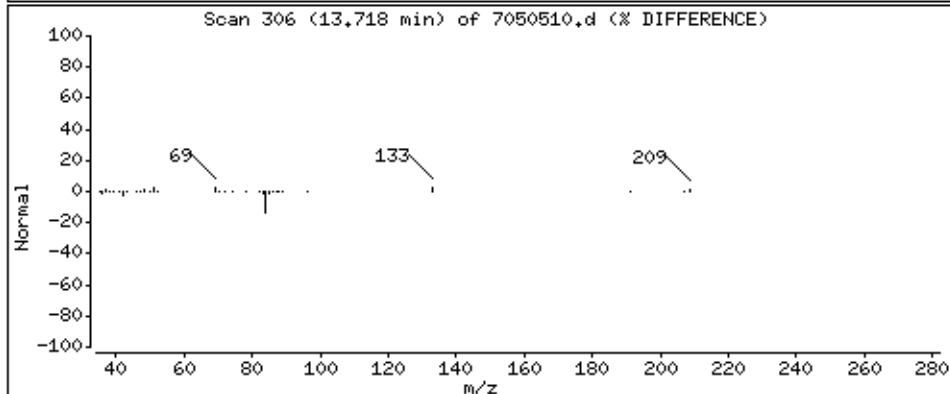
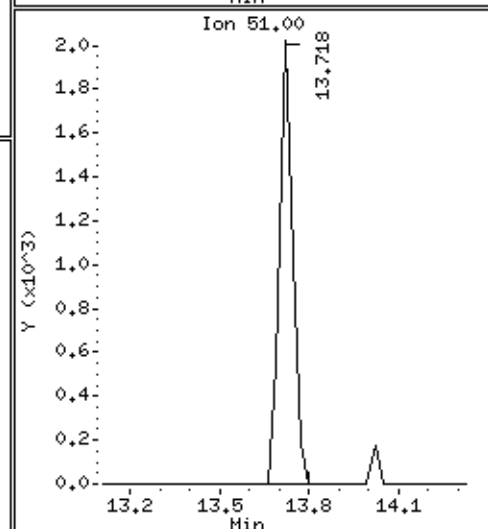
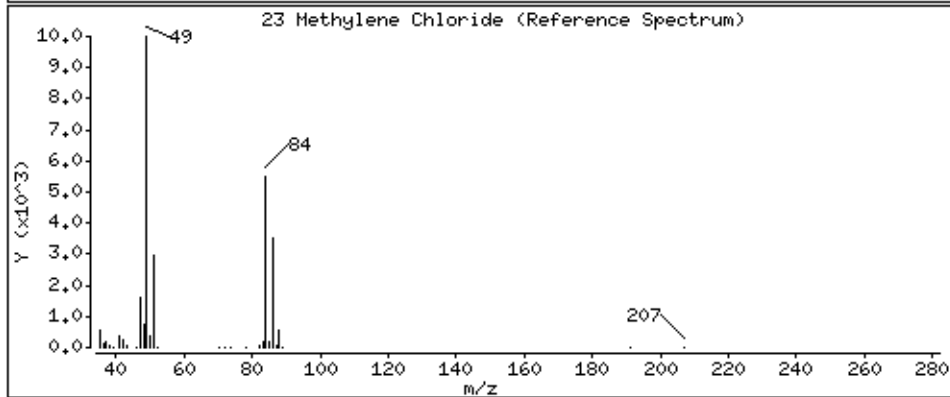
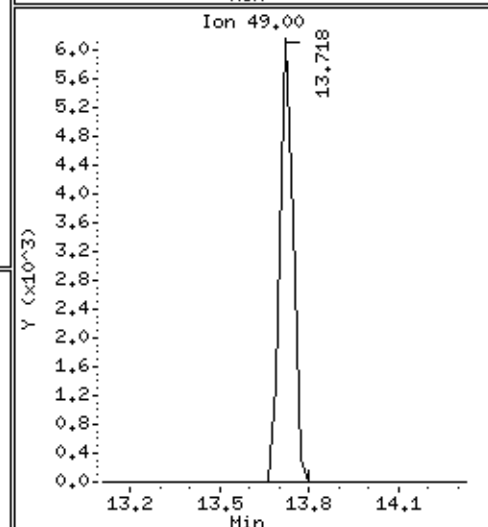
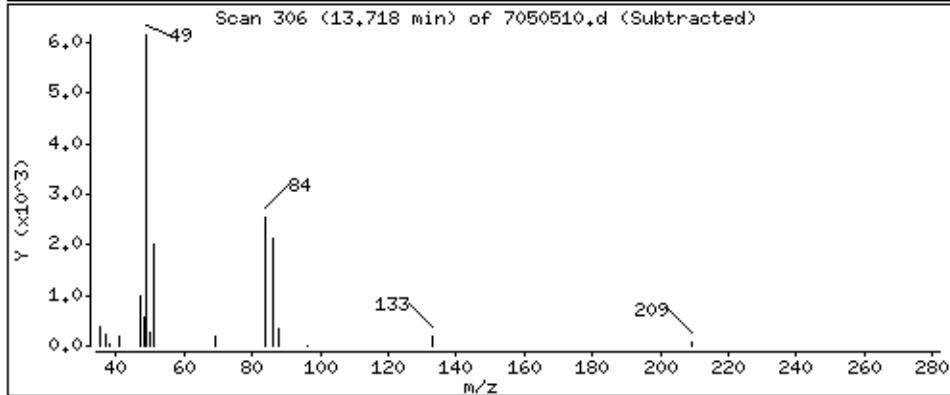
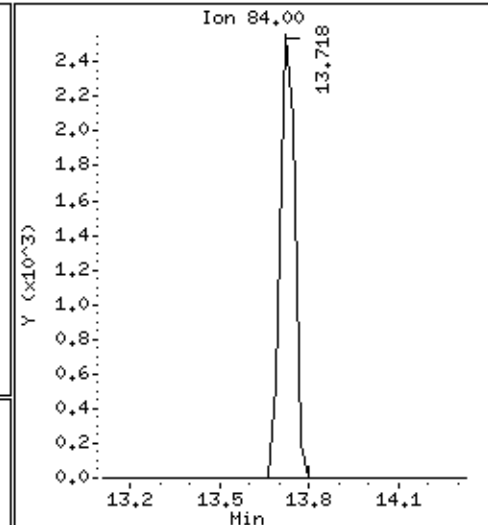
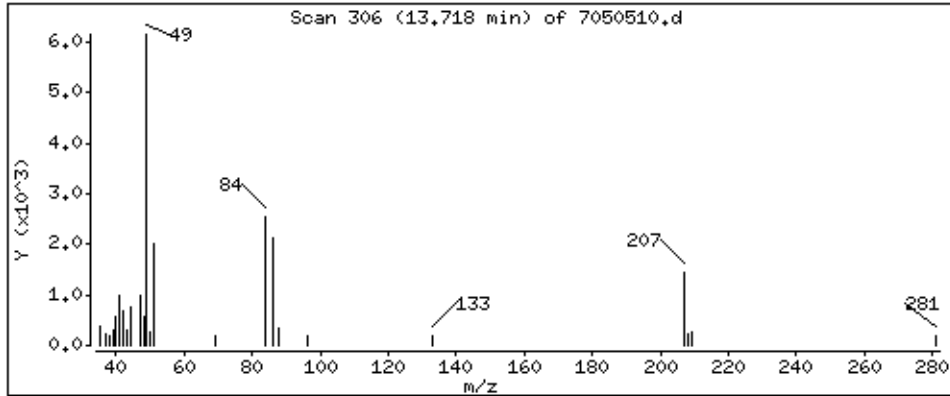
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

23 Methylene Chloride

Concentration: 0.3517 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

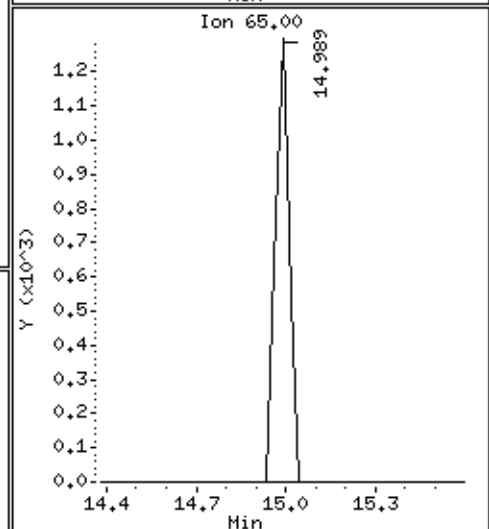
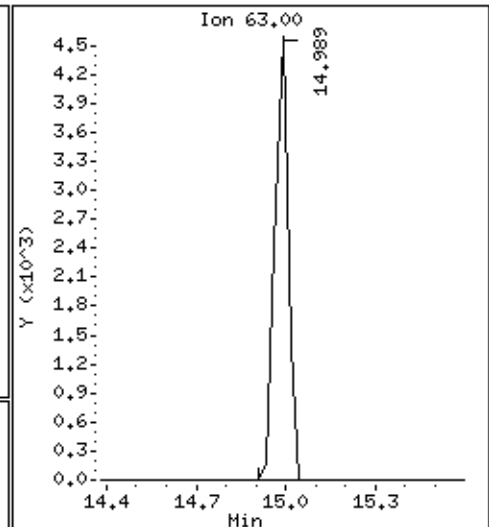
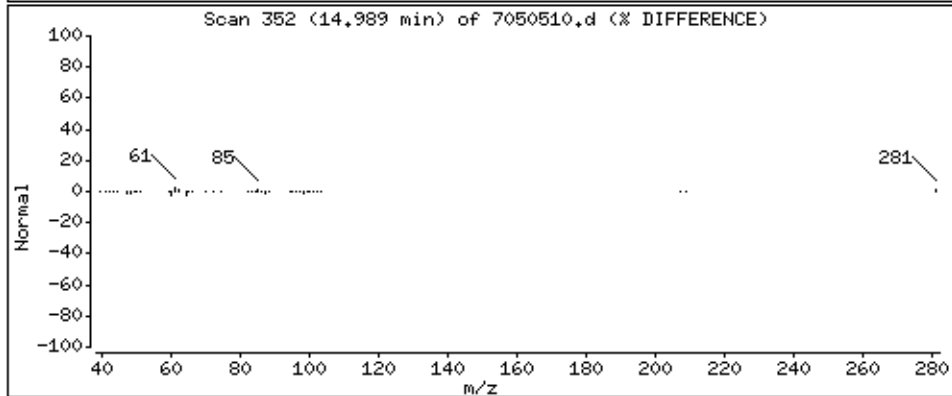
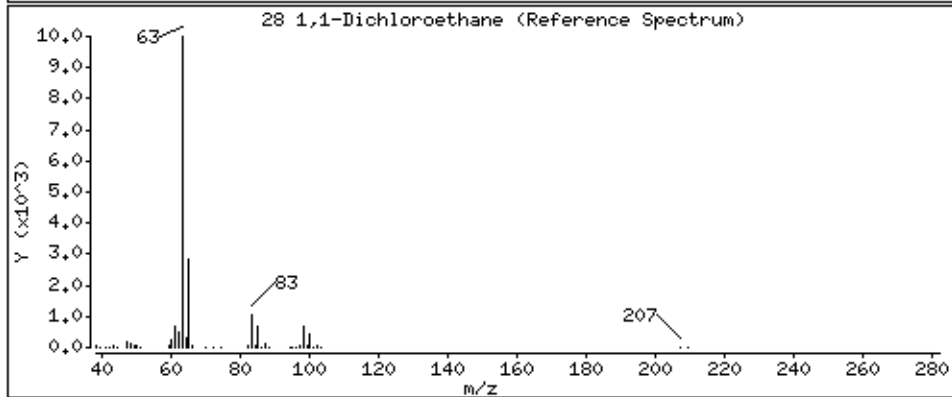
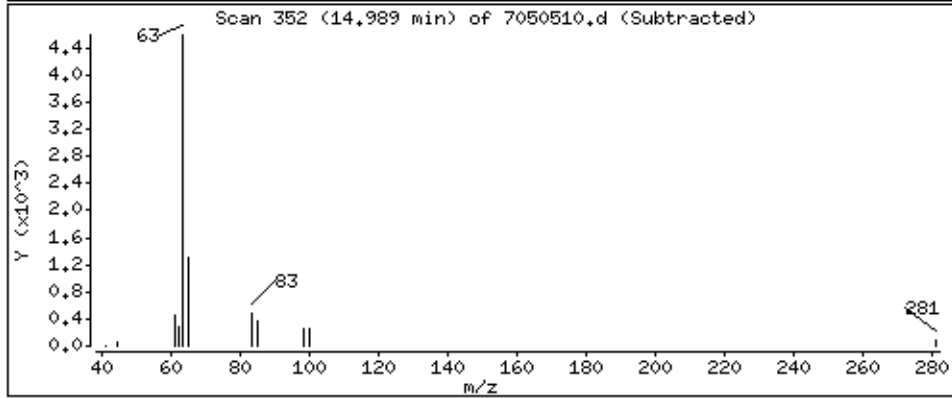
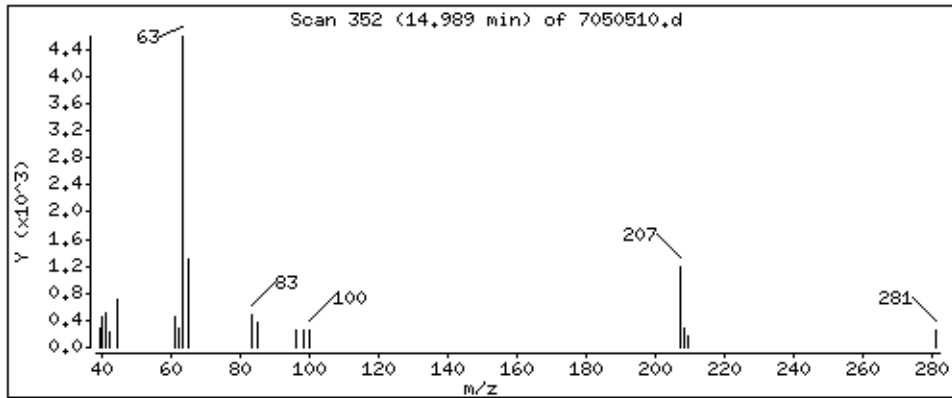
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

28 1,1-Dichloroethane

Concentration: 0.2454 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

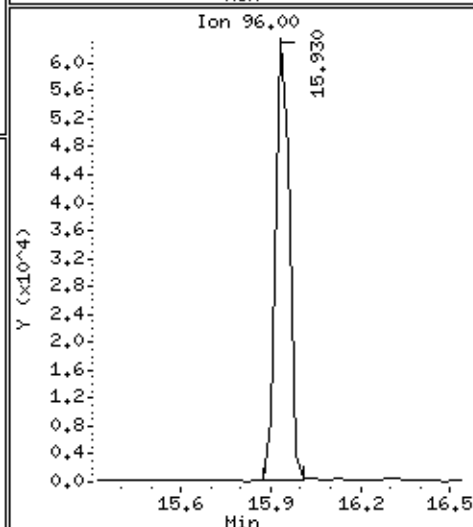
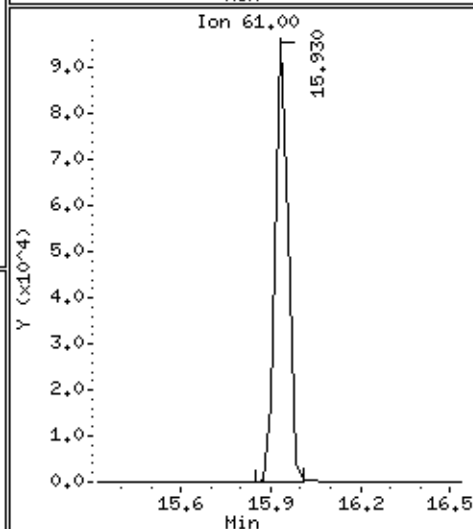
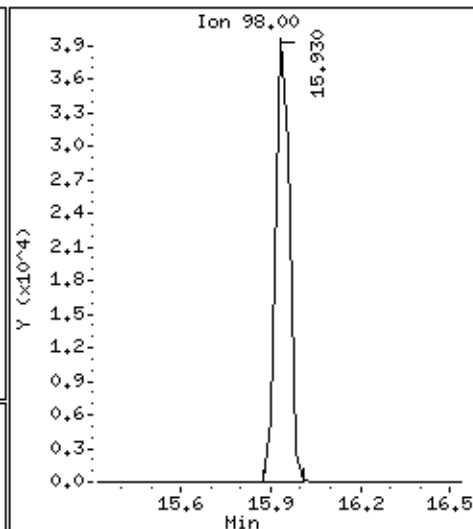
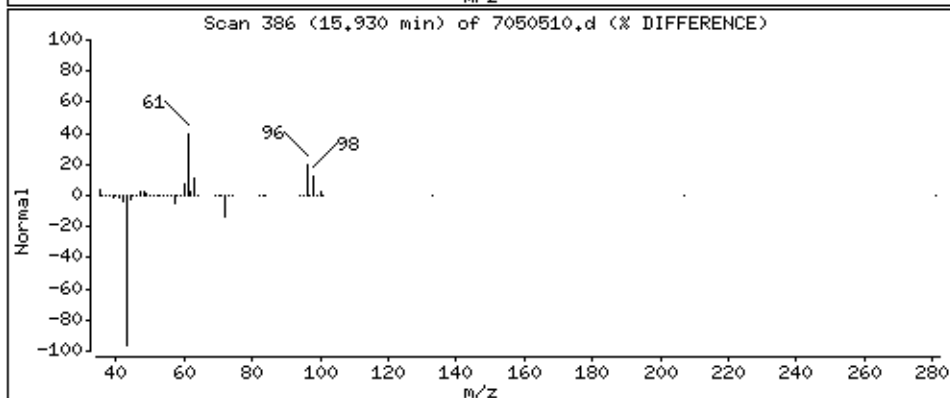
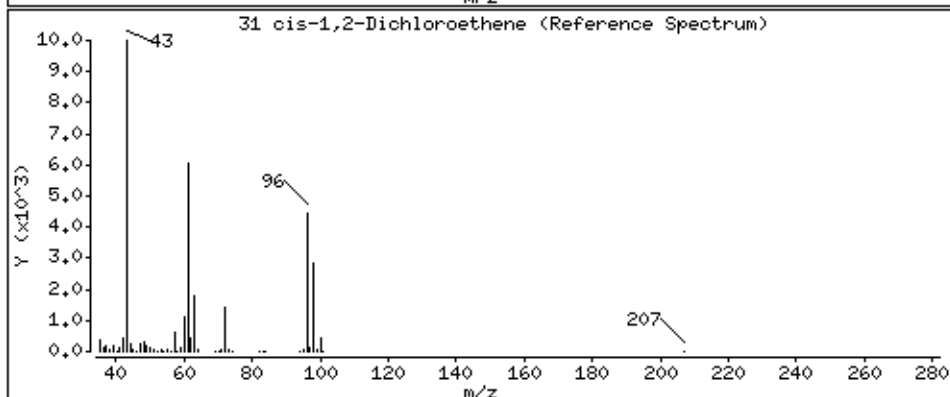
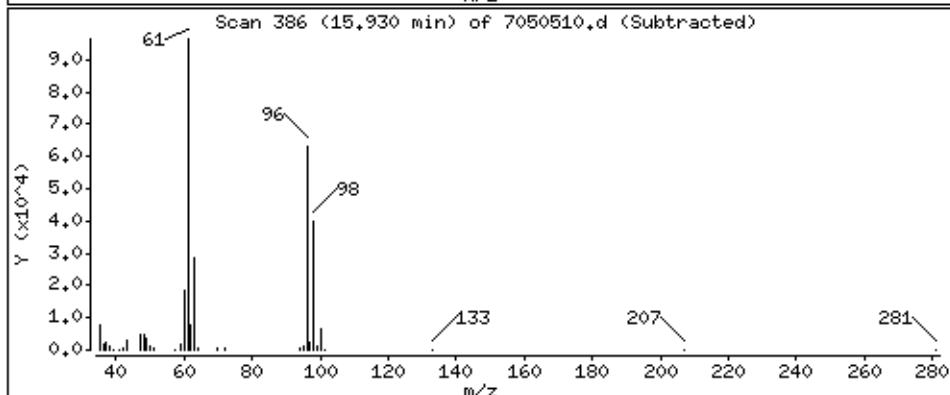
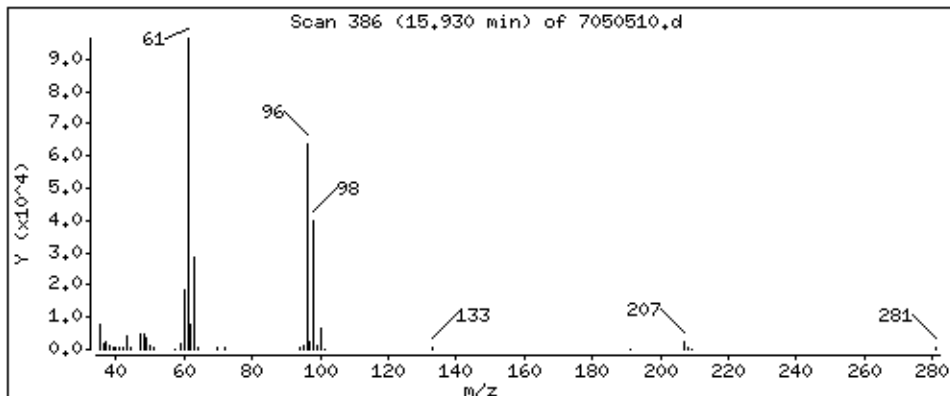
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

31 cis-1,2-Dichloroethene

Concentration: 5.623 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

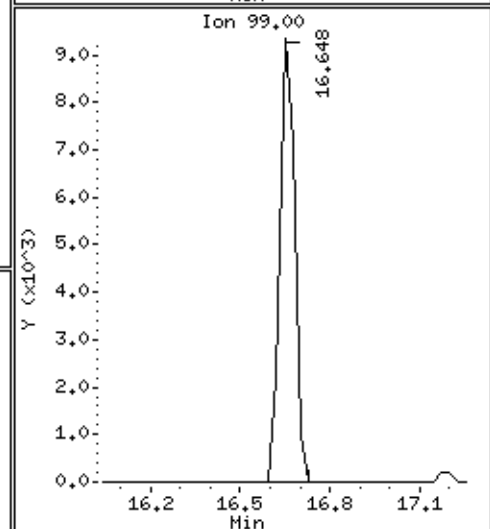
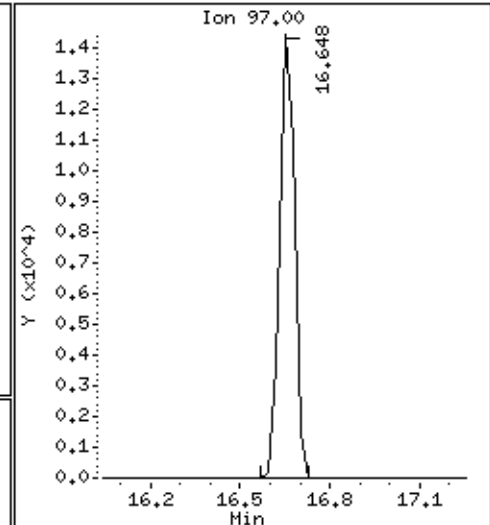
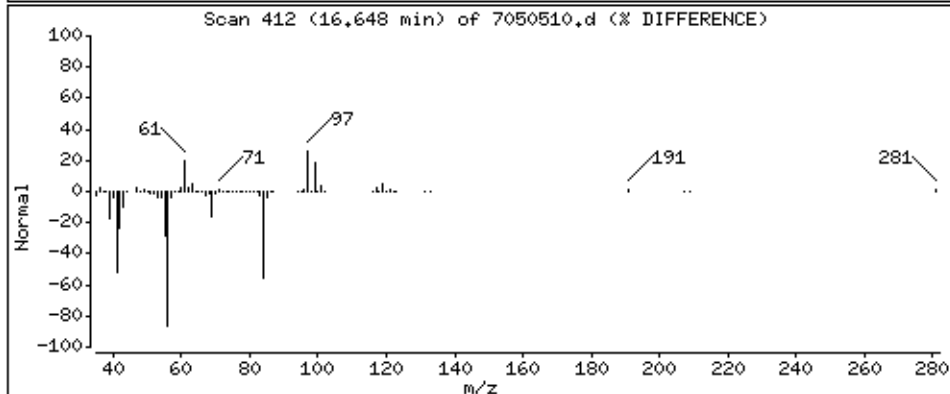
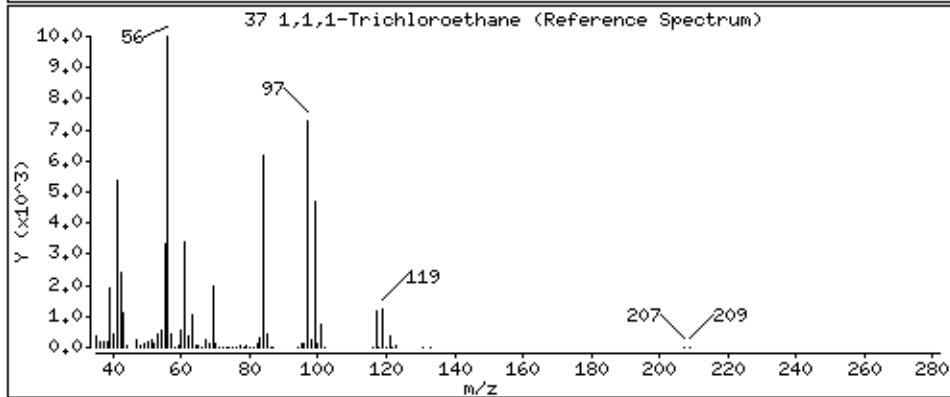
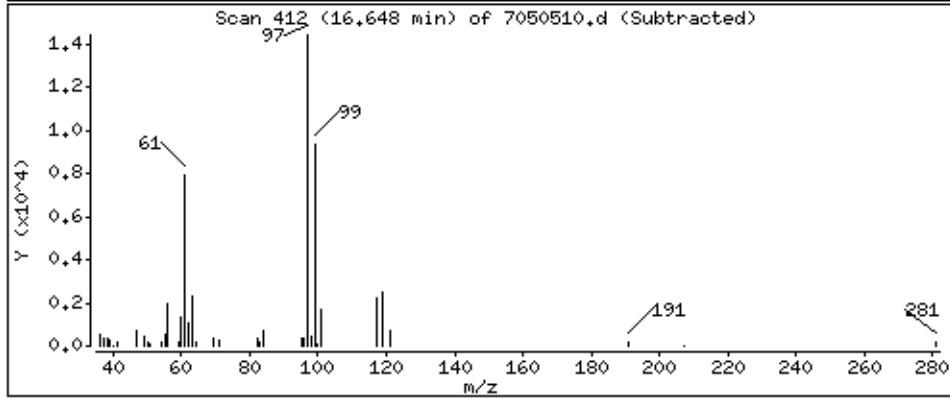
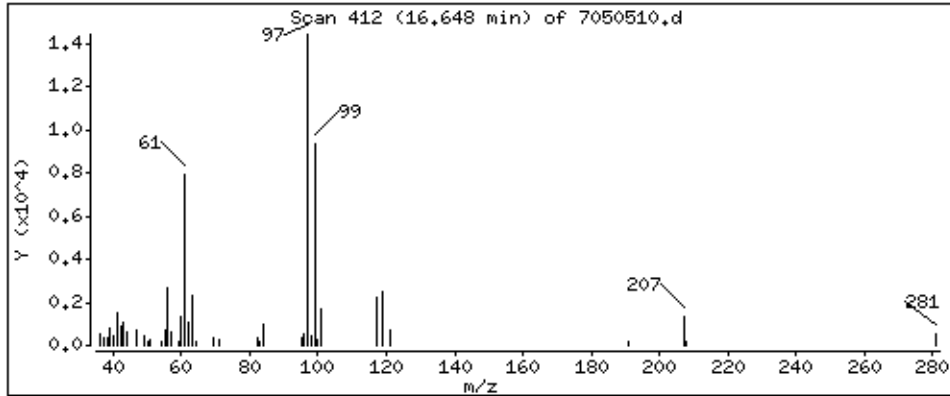
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

37 1,1,1-Trichloroethane

Concentration: 1.019 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

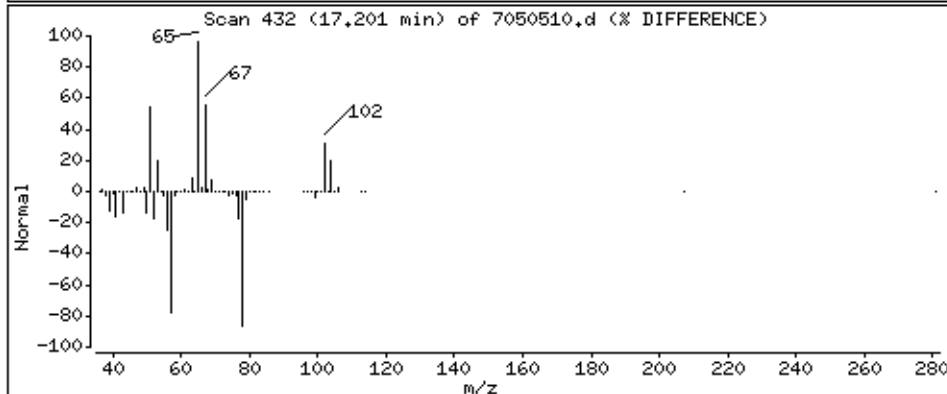
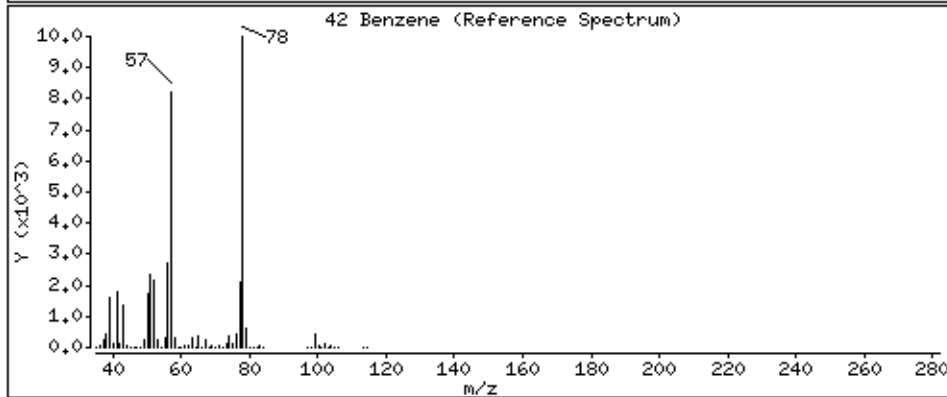
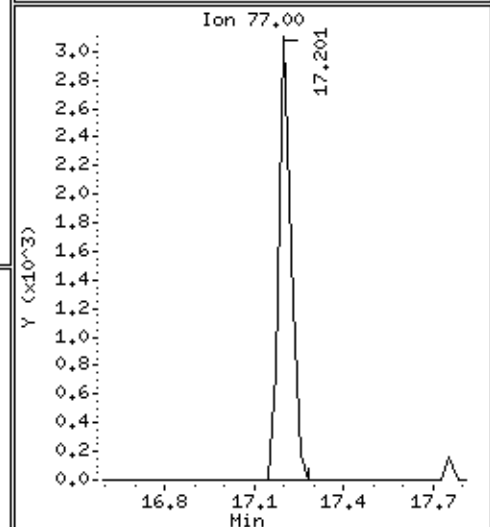
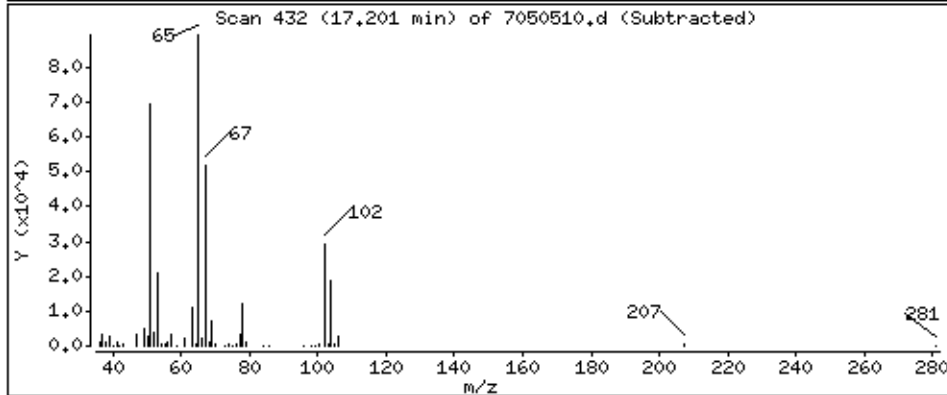
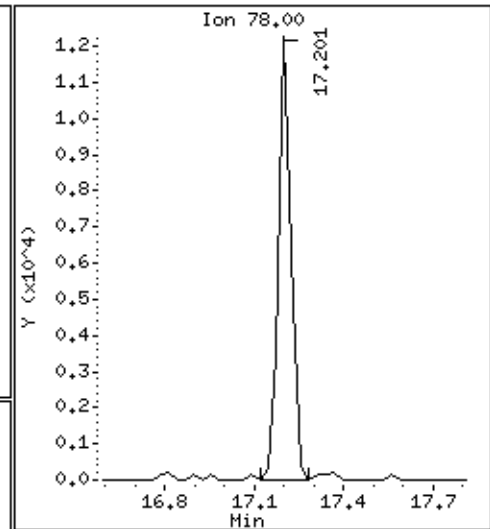
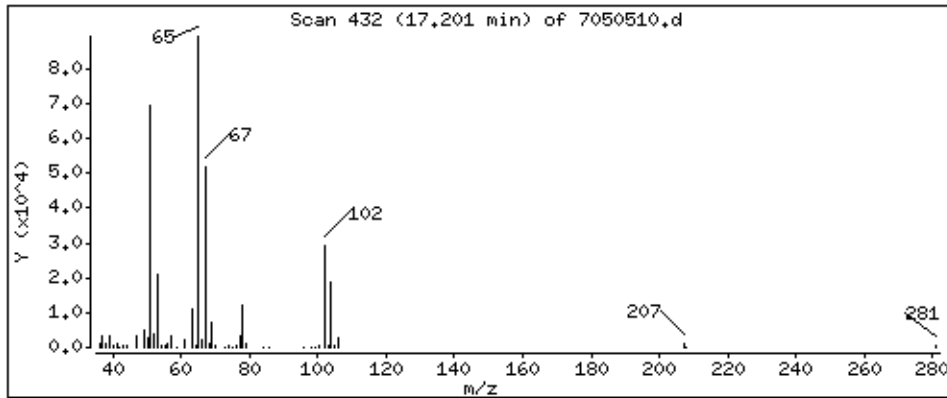
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

42 Benzene

Concentration: 0.3430 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

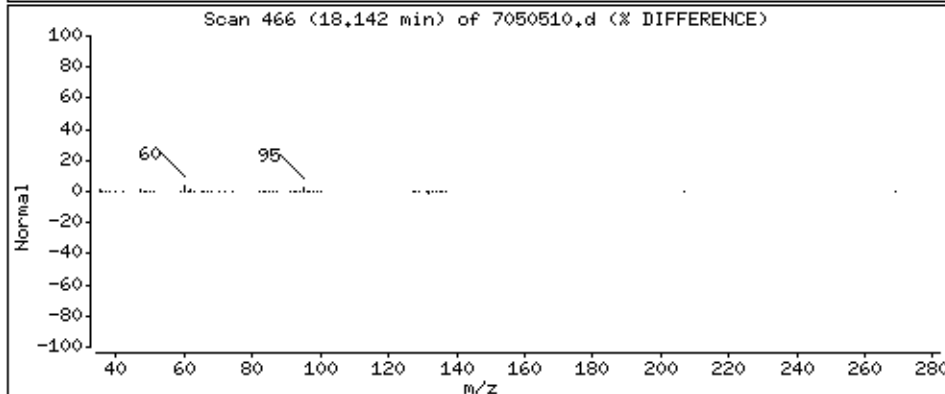
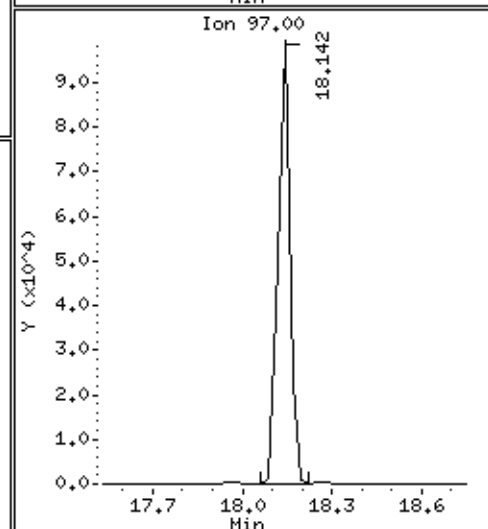
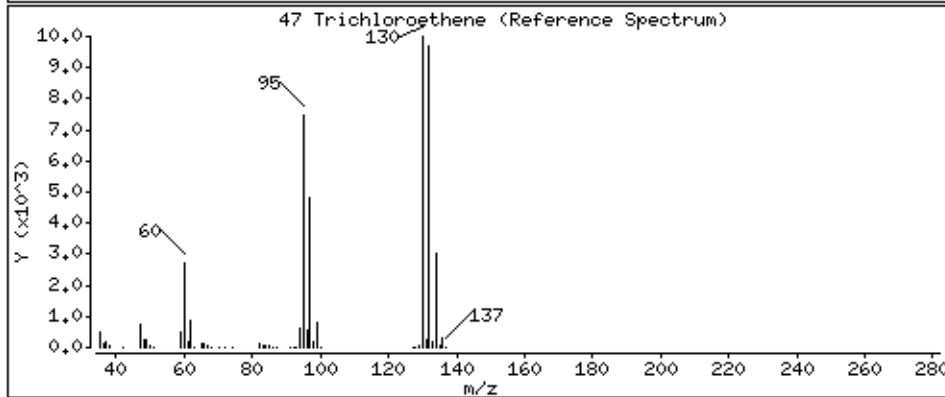
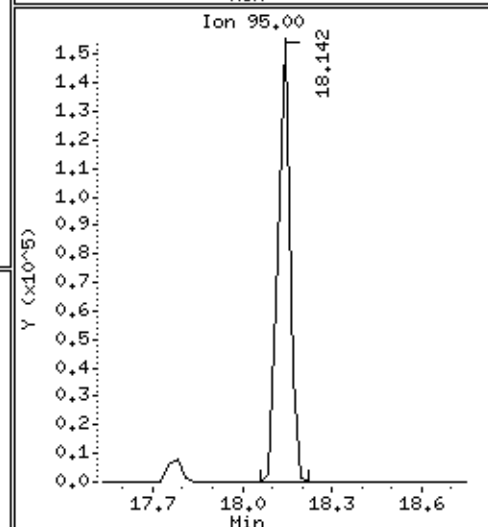
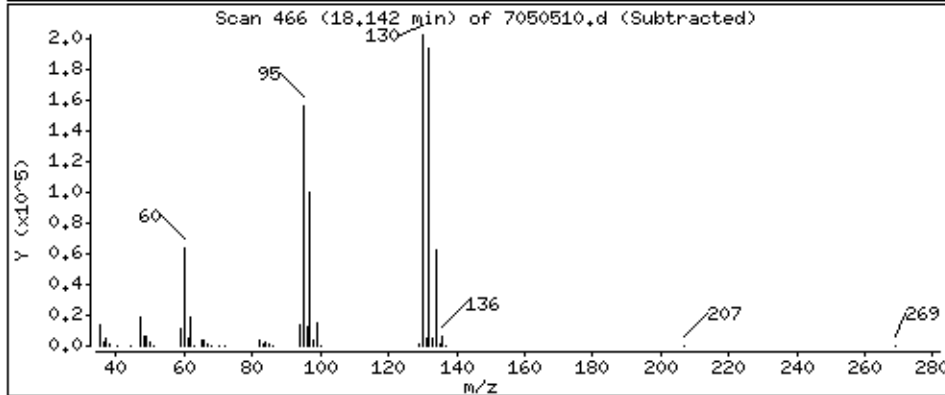
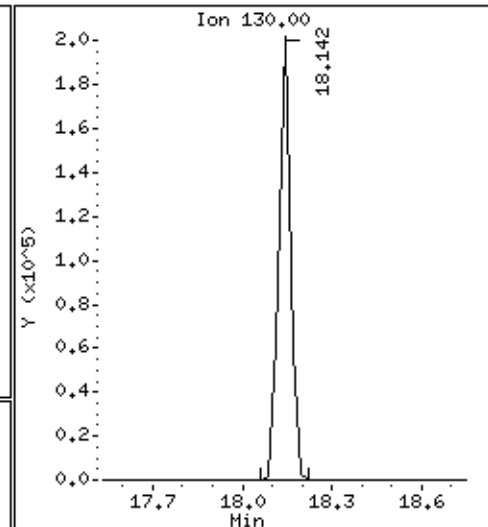
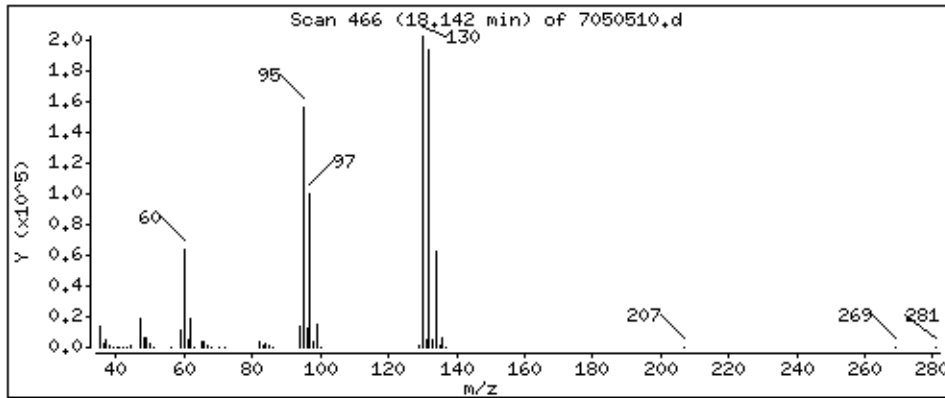
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

47 Trichloroethene

Concentration: 9.410 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

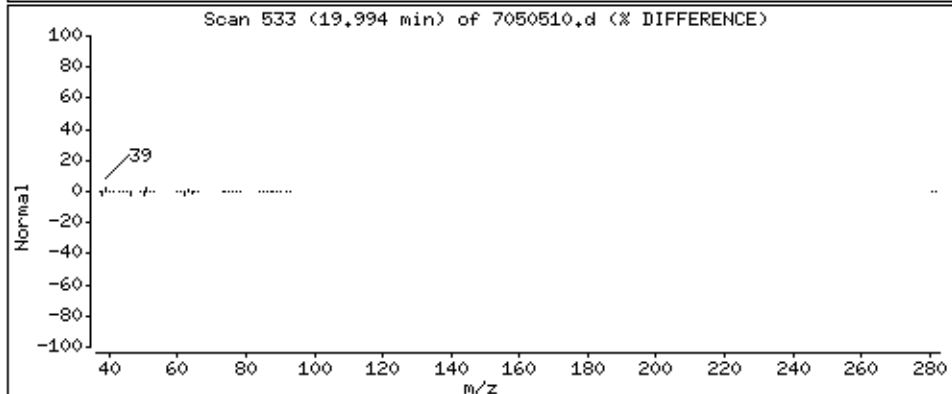
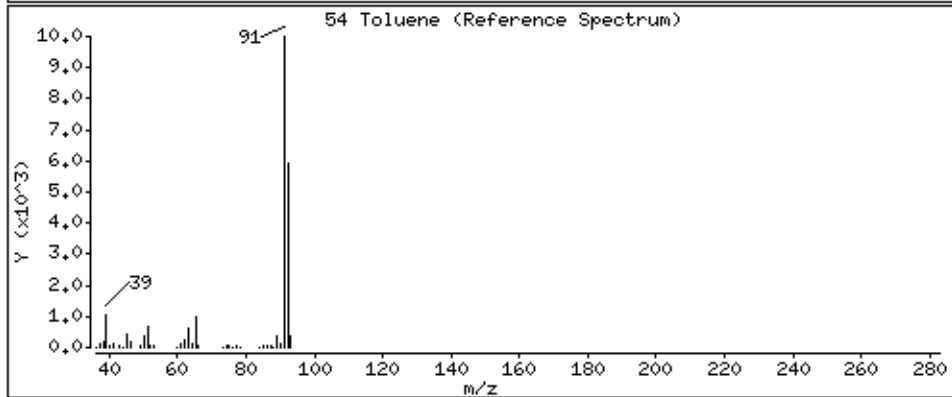
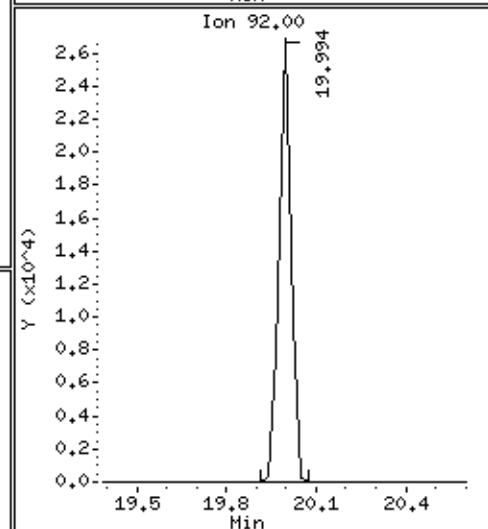
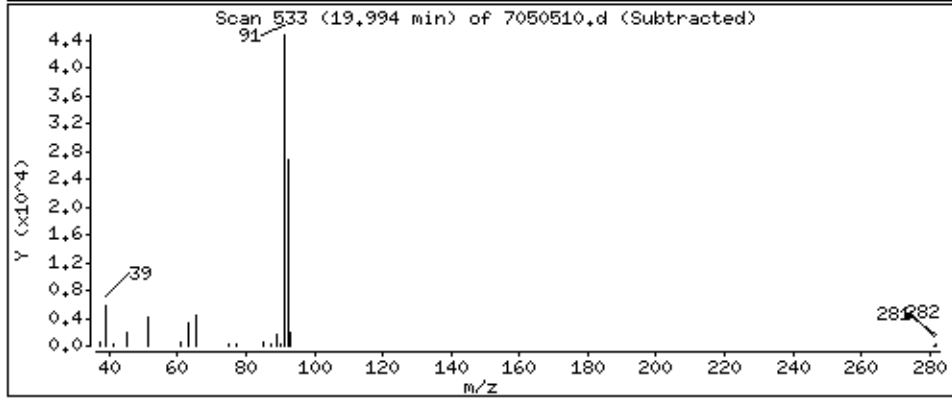
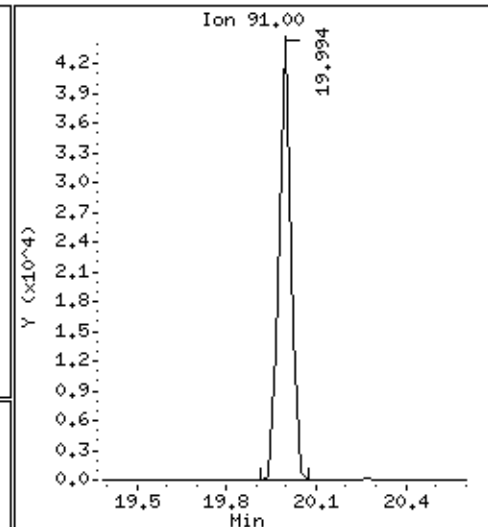
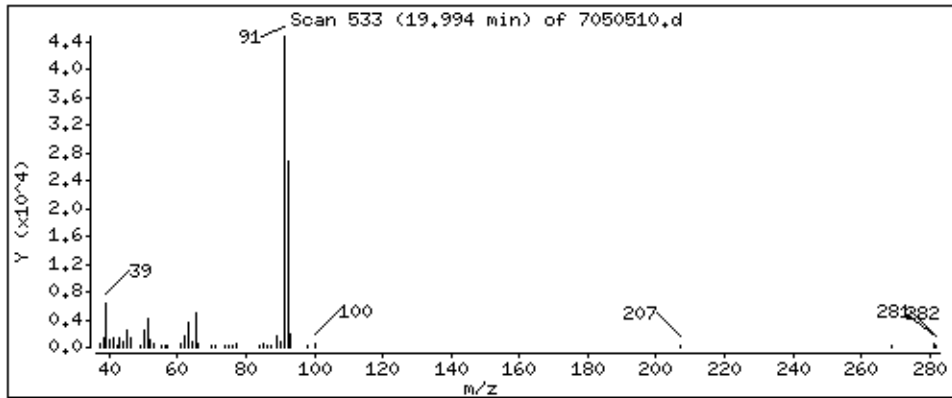
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

54 Toluene

Concentration: 0.9568 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

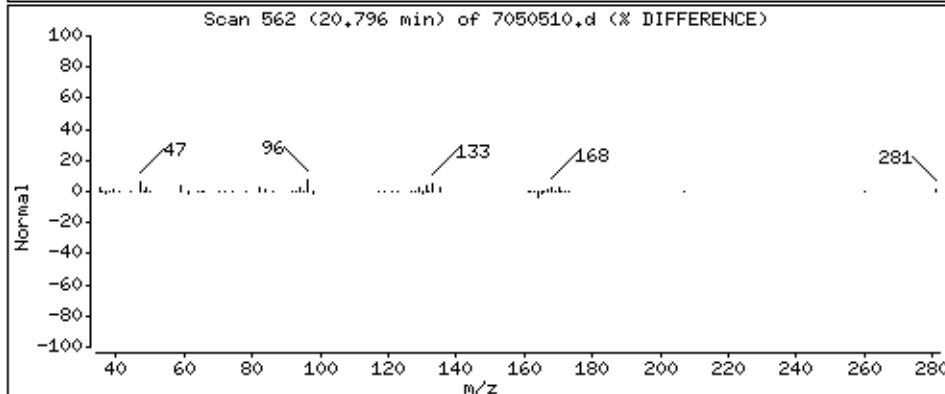
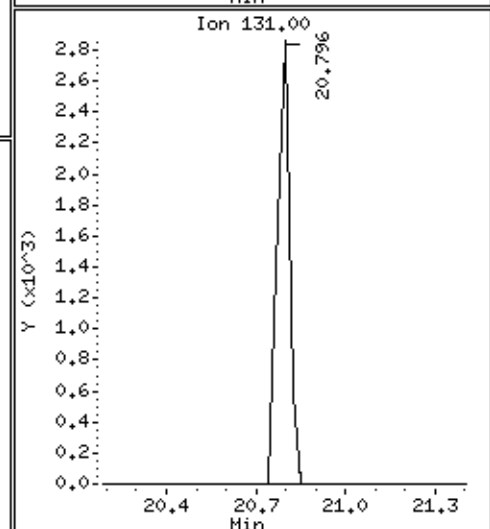
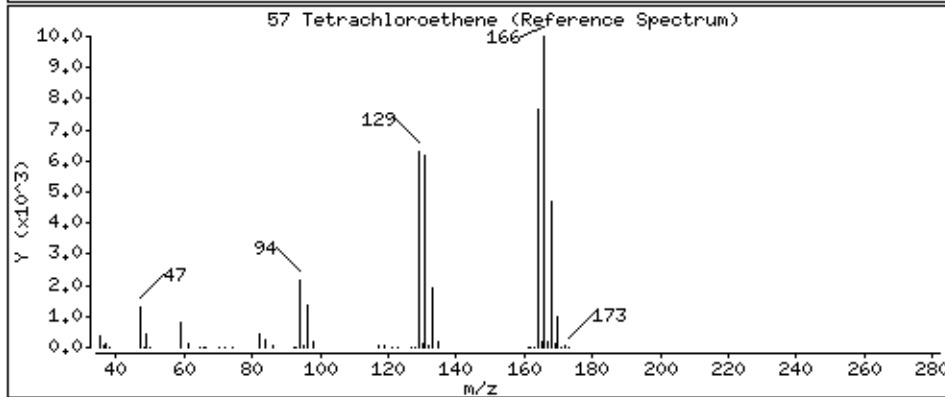
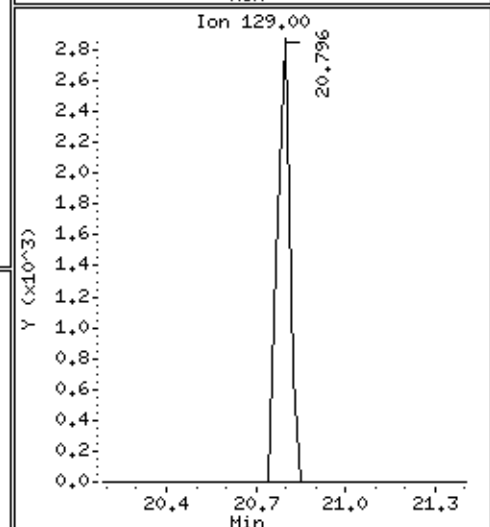
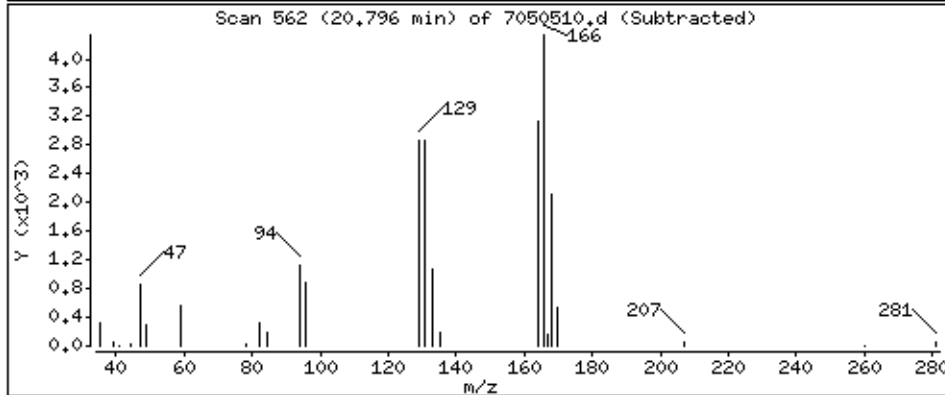
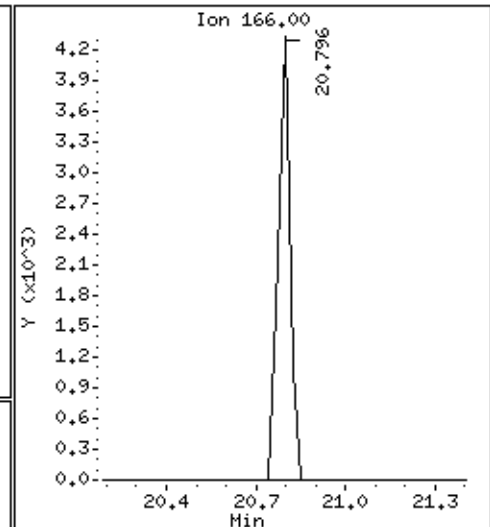
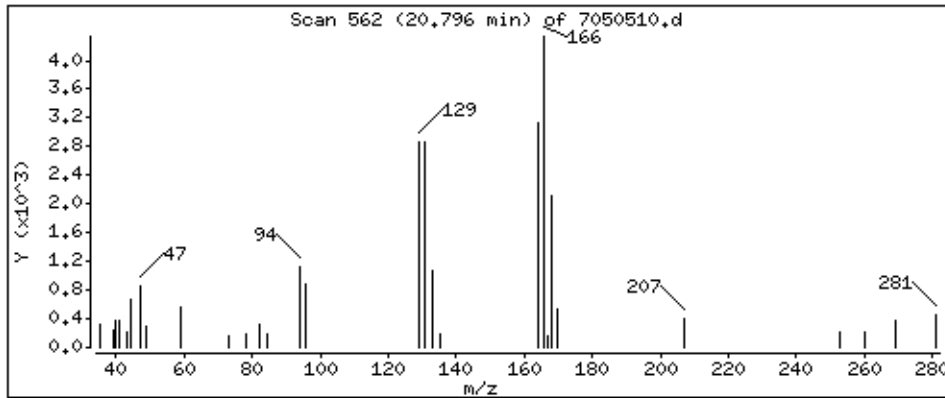
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

57 Tetrachloroethene

Concentration: 0.1821 PPBV



Date : 05-MAY-2005 19:59

Client ID:

Instrument: msd7.i

Sample Info: 500mL Can#34338

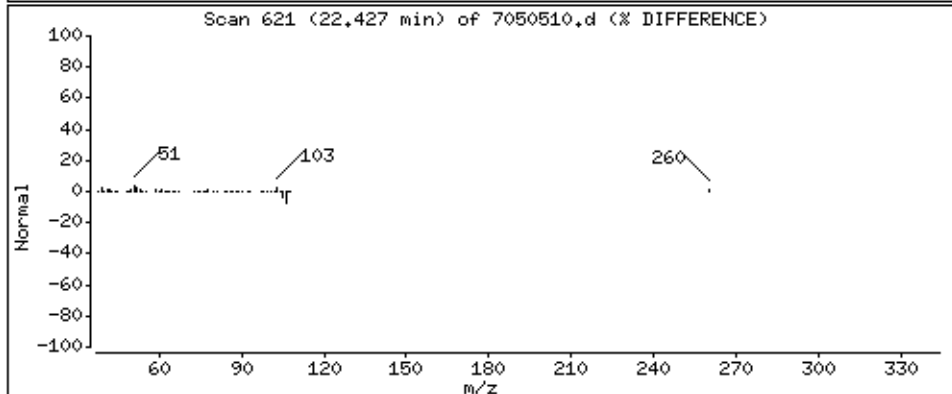
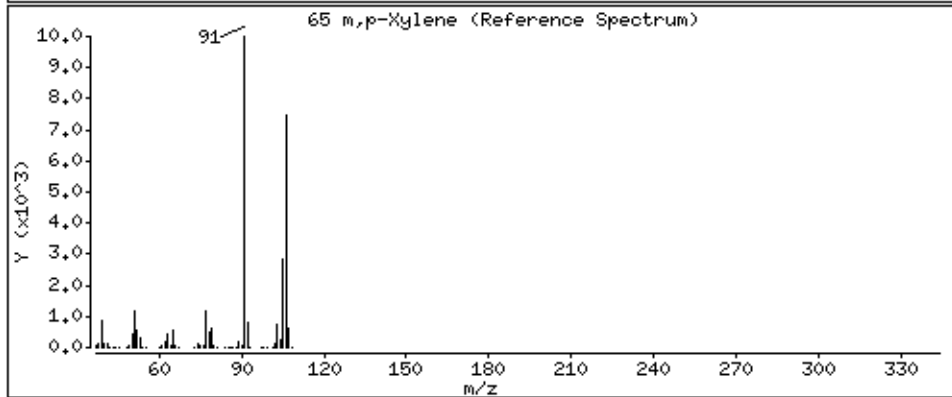
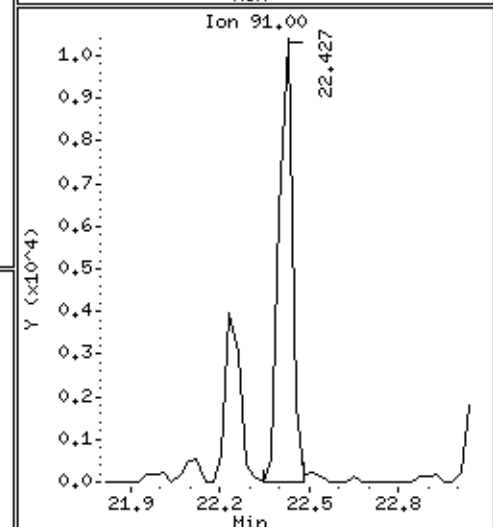
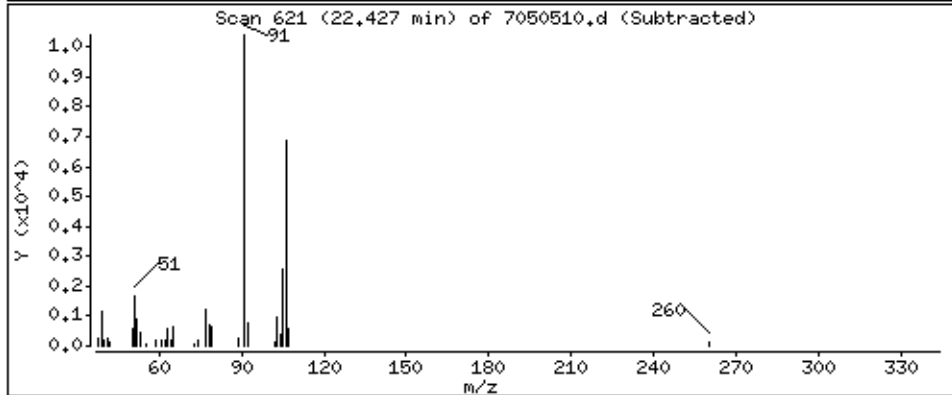
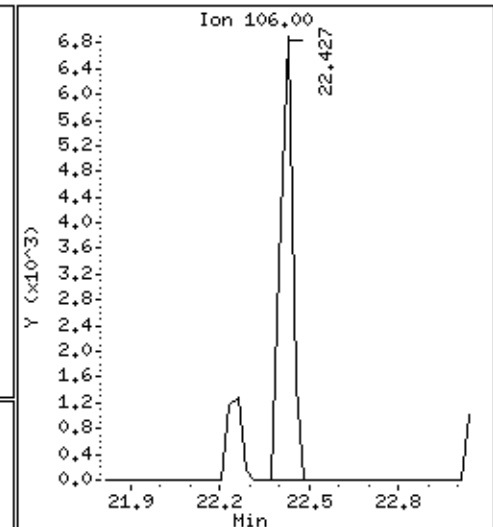
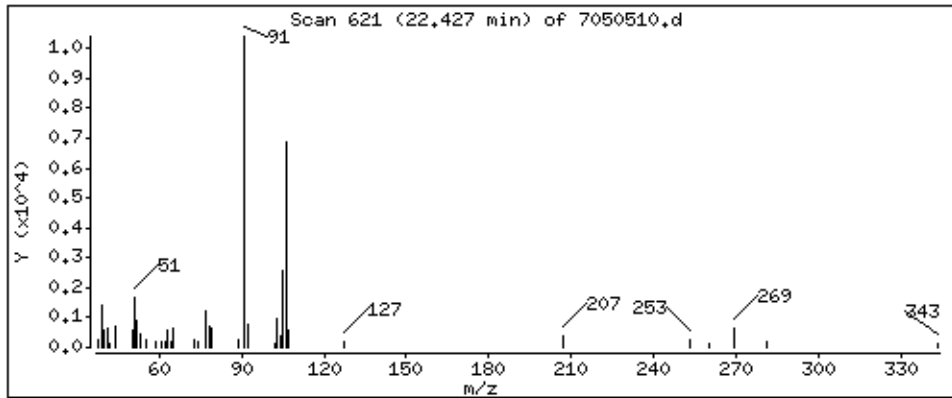
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

65 m,p-Xylene

Concentration: 0.2517 PPBV



AIR TOXICS LTD.

Client Sample ID: SV-A01

Lab ID#: 0504472-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050512	Date of Collection: 4/21/05
Dil. Factor:	534	Date of Analysis: 5/5/05 10:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	53	Not Detected	260	Not Detected
Freon 114	53	Not Detected	370	Not Detected
Chloromethane	53	Not Detected	110	Not Detected
Vinyl Chloride	53	Not Detected	140	Not Detected
1,3-Butadiene	270	Not Detected	590	Not Detected
Bromomethane	53	Not Detected	210	Not Detected
Chloroethane	53	Not Detected	140	Not Detected
Freon 11	53	Not Detected	300	Not Detected
Ethanol	270	1600	500	3000
Freon 113	53	Not Detected	410	Not Detected
1,1-Dichloroethene	53	Not Detected	210	Not Detected
Acetone	270	Not Detected	630	Not Detected
2-Propanol	270	Not Detected	660	Not Detected
Carbon Disulfide	270	Not Detected	830	Not Detected
Methylene Chloride	110	Not Detected	370	Not Detected
Methyl tert-butyl ether	270	Not Detected	960	Not Detected
trans-1,2-Dichloroethene	270	Not Detected	1000	Not Detected
Hexane	270	Not Detected	940	Not Detected
1,1-Dichloroethane	53	160	220	650
2-Butanone (Methyl Ethyl Ketone)	270	Not Detected	790	Not Detected
cis-1,2-Dichloroethene	53	9100	210	36000
Tetrahydrofuran	270	Not Detected	790	Not Detected
Chloroform	53	Not Detected	260	Not Detected
1,1,1-Trichloroethane	53	750	290	4100
Cyclohexane	270	Not Detected	920	Not Detected
Carbon Tetrachloride	53	Not Detected	340	Not Detected
Benzene	53	Not Detected	170	Not Detected
1,2-Dichloroethane	53	Not Detected	220	Not Detected
Heptane	270	Not Detected	1100	Not Detected
Trichloroethene	53	14000	290	76000
1,2-Dichloropropane	53	Not Detected	250	Not Detected
1,4-Dioxane	270	Not Detected	960	Not Detected
Bromodichloromethane	270	Not Detected	1800	Not Detected
cis-1,3-Dichloropropene	53	Not Detected	240	Not Detected
4-Methyl-2-pentanone	270	Not Detected	1100	Not Detected
Toluene	53	Not Detected	200	Not Detected
trans-1,3-Dichloropropene	53	Not Detected	240	Not Detected
1,1,2-Trichloroethane	53	Not Detected	290	Not Detected
Tetrachloroethene	53	79	360	530
2-Hexanone	270	Not Detected	1100	Not Detected
Dibromochloromethane	270	Not Detected	2300	Not Detected
1,2-Dibromoethane (EDB)	53	Not Detected	410	Not Detected

AIR TOXICS LTD.

Client Sample ID: SV-A01

Lab ID#: 0504472-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050512	Date of Collection: 4/21/05
Dil. Factor:	534	Date of Analysis: 5/5/05 10:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	53	Not Detected	240	Not Detected
Ethyl Benzene	53	Not Detected	230	Not Detected
m,p-Xylene	53	Not Detected	230	Not Detected
o-Xylene	53	Not Detected	230	Not Detected
Styrene	53	490	230	2100
Bromoform	270	Not Detected	2800	Not Detected
Cumene	270	Not Detected	1300	Not Detected
1,1,2,2-Tetrachloroethane	53	Not Detected	370	Not Detected
Propylbenzene	270	Not Detected	1300	Not Detected
4-Ethyltoluene	270	Not Detected	1300	Not Detected
1,3,5-Trimethylbenzene	53	Not Detected	260	Not Detected
1,2,4-Trimethylbenzene	53	Not Detected	260	Not Detected
1,3-Dichlorobenzene	53	Not Detected	320	Not Detected
1,4-Dichlorobenzene	53	Not Detected	320	Not Detected
alpha-Chlorotoluene	53	Not Detected	280	Not Detected
1,2-Dichlorobenzene	53	Not Detected	320	Not Detected
1,2,4-Trichlorobenzene	270	Not Detected	2000	Not Detected
Hexachlorobutadiene	270	Not Detected	2800	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-05may.b/7050512.d
Lab Smp Id: 0504472-02A
Inj Date : 05-MAY-2005 22:18
Operator : BD
Smp Info : 1.60mL Can#33774
Misc Info : 6.5"Hg->5psi ERM
Comment :
Method : /chem/msd7.i/7-05may.b/t14l501a.m
Meth Date : 09-May-2005 14:50 lsoohoo
Cal Date : 01-MAY-2005 17:45
Als bottle: 1
Dil Factor: 534.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd7.i
Quant Type: ISTD
Cal File: 7050113.d
Compound Sublist: AT.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 34 Bromochloromethane						CAS #: 74-97-5			
16.317	16.317	(1.000)	130	256264	10.0000		80.00- 120.00	100.00	
16.317	16.317	(1.000)	128	195003			47.67- 107.67	76.09	
16.317	16.317	(1.000)	49	465682			141.21- 201.21	181.72	

* 46 1,4-Difluorobenzene						CAS #: 540-36-3			
17.782	17.782	(1.000)	114	1143912	10.0000		80.00- 120.00	100.00	
17.782	17.782	(1.000)	88	145235			0.00- 42.60	12.70	

* 62 Chlorobenzene-d5						CAS #: 3114-55-4			
22.123	22.123	(1.000)	117	1007021	10.0000		80.00- 120.00	100.00	
22.123	22.123	(1.000)	82	442279			13.88- 73.88	43.92	

\$ 41 1,2-Dichloroethane-d4						CAS #: 17060-07-0			
17.201	17.202	(1.054)	65	237024	9.64595	9.646	80.00- 120.00	100.00(a)	
17.201	17.202	(1.054)	67	134732			39.84- 99.84	56.84	

\$ 53 Toluene-d8						CAS #: 2037-26-5			
19.883	19.884	(1.118)	98	1029766	9.80354	9.804	80.00- 120.00	100.00(a)	
19.883	19.884	(1.118)	70	85934			0.00- 38.58	8.35	

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 53 Toluene-d8 (continued)									
19.883	19.884	(1.118)	100	703666			38.13-	98.13	68.33

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	592886	9.78184	9.782	80.00-	120.00	100.00(a)
23.948	23.948	(1.082)	95	614297			73.19-	133.19	103.61
23.948	23.948	(1.082)	176	569579			66.66-	126.66	96.07

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	68125	2.96162	1581.5	80.00-	120.00	100.00
12.031	12.031	(0.737)	43	14167			0.00-	47.77	20.80
12.031	12.031	(0.737)	46	27796			10.78-	70.78	40.80

28 1,1-Dichloroethane						CAS #:	75-34-3		
14.989	14.990	(0.919)	63	23212	0.29901	159.67	80.00-	120.00	100.00
14.989	14.990	(0.919)	65	6516			0.00-	58.73	28.07

31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.929	15.930	(0.976)	98	525938	16.9971	9076.4	80.00-	120.00	100.00
15.929	15.930	(0.976)	61	1145316			189.88-	249.88	217.77
15.929	15.930	(0.976)	96	825085			129.12-	189.12	156.88

37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.649	(1.020)	97	94695	1.41348	754.80	80.00-	120.00	100.00
16.648	16.649	(1.020)	99	60643			34.18-	94.18	64.04

47 Trichloroethene						CAS #:	79-01-6		
18.141	18.142	(1.020)	130	2112987	26.6899	14252	80.00-	120.00	100.00
18.141	18.142	(1.020)	95	1651434			47.95-	107.95	78.16
18.141	18.142	(1.020)	97	1056466			20.27-	80.27	50.00

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	13077	0.14744	78.735	80.00-	120.00	100.00
20.796	20.796	(0.940)	129	8719			39.13-	99.13	66.68
20.796	20.796	(0.940)	131	8630			38.26-	98.26	65.99

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	93282	0.92437	493.62	80.00-	120.00	100.00
23.091	23.091	(1.044)	78	30596			8.13-	68.13	32.80

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050512.d
Lab Smp Id: 0504472-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: BD

Calibration Date: 05-MAY-2005
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-05may.b/t141501a.m

Misc Info: 6.5"Hg->5psi ERM

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	273711	164227	383195	256264	-6.37
46 1,4-Difluorobenze	1190742	714445	1667039	1143912	-3.93
62 Chlorobenzene-d5	1102533	661520	1543546	1007021	-8.66

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 10-May-2005 17:53

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-05may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0504472-02A
Level: LOW Operator: BD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT.sub
Method File: /chem/msd7.i/7-05may.b/t141501a.m
Misc Info: 6.5"Hg->5psi ERM

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.646	96.46	70-130
\$ 53 Toluene-d8	10.000	9.804	98.04	70-130
\$ 71 Bromofluorobenzene	10.000	9.782	97.82	70-130

Date : 05-MAY-2005 22:18

Client ID:

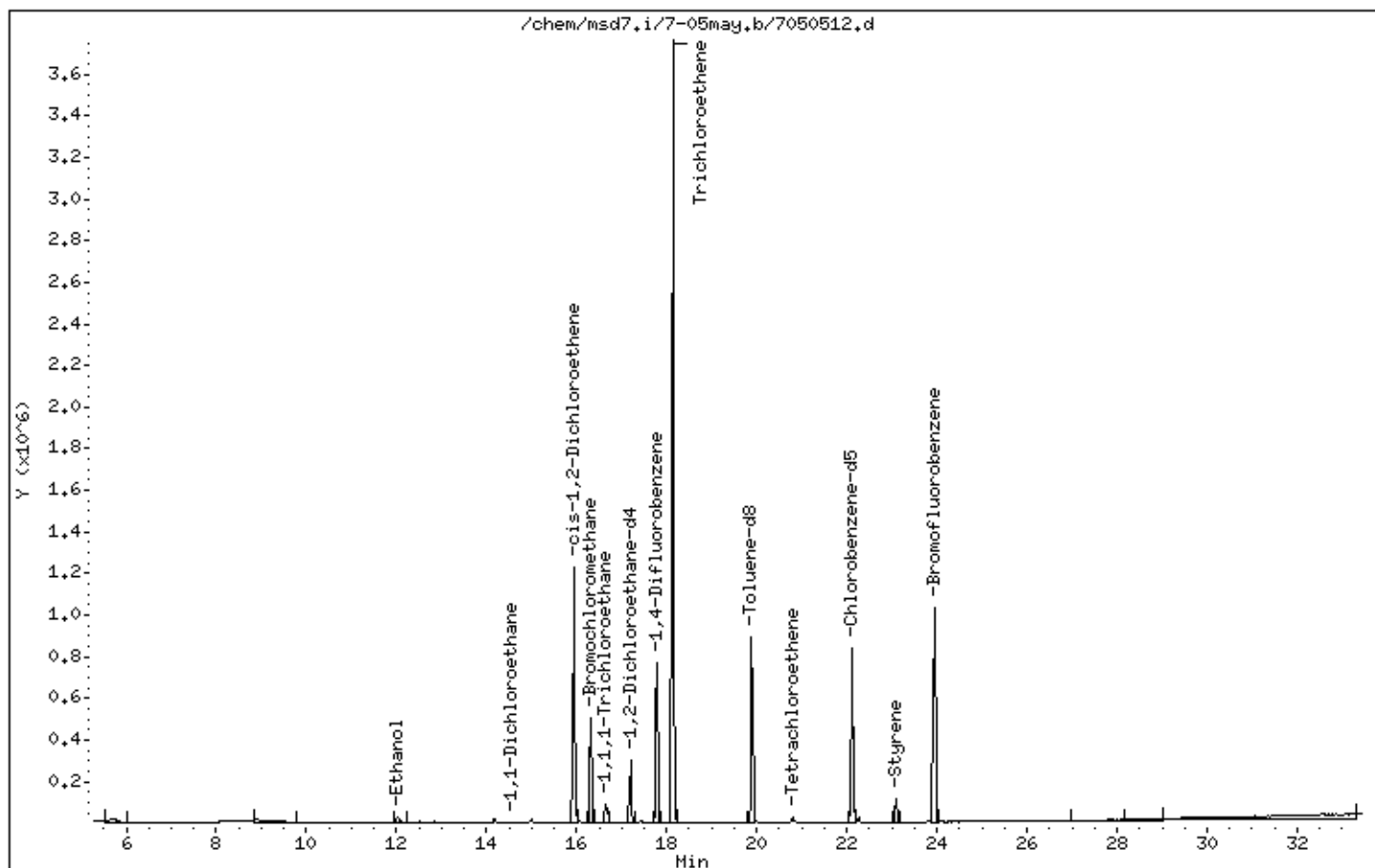
Instrument: msd7.i

Sample Info: 1.60mL Can#33774

Operator: BD

Column phase: RTX-624

Column diameter: 0.32



Date : 05-MAY-2005 22:18

Client ID:

Instrument: msd7.i

Sample Info: 1.60mL Can#33774

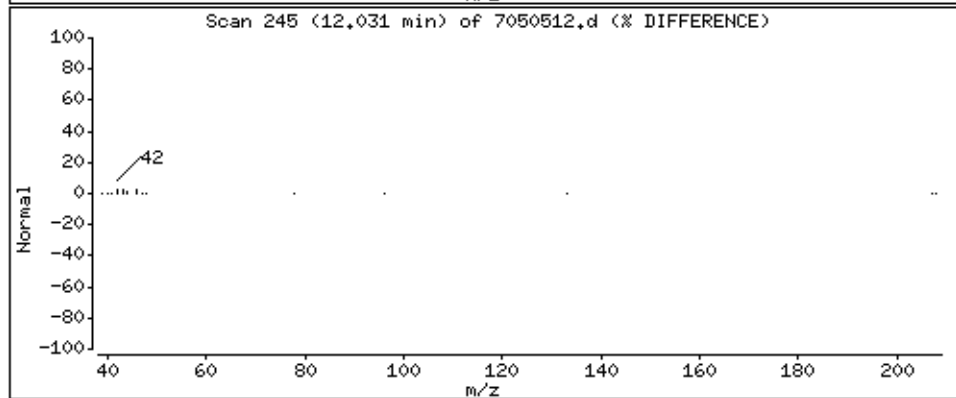
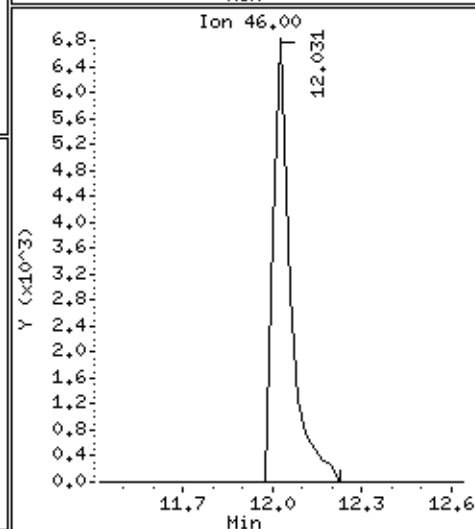
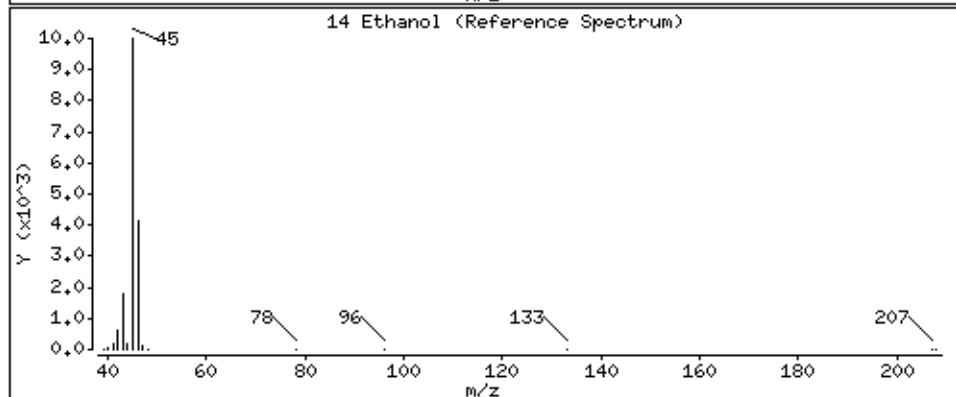
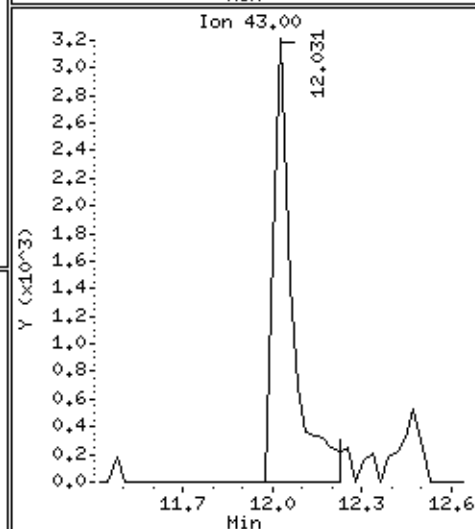
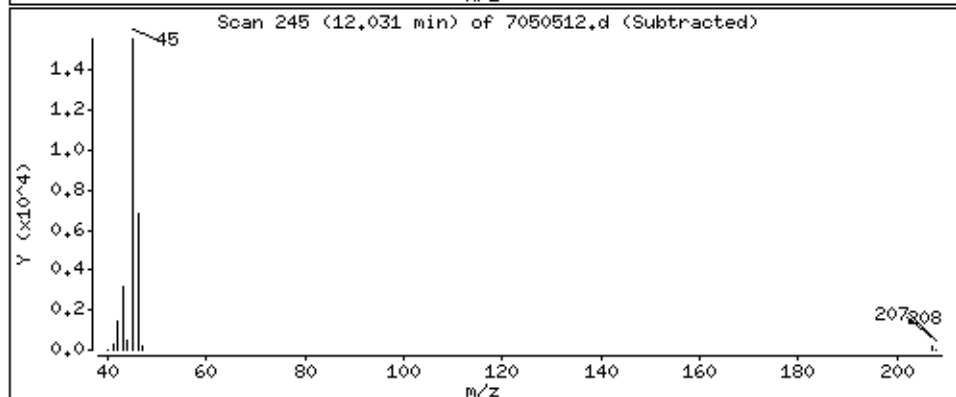
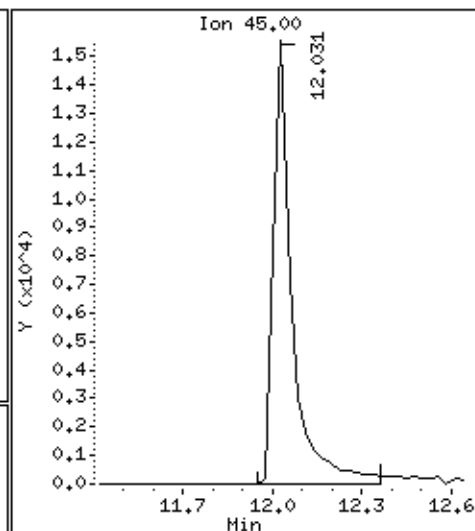
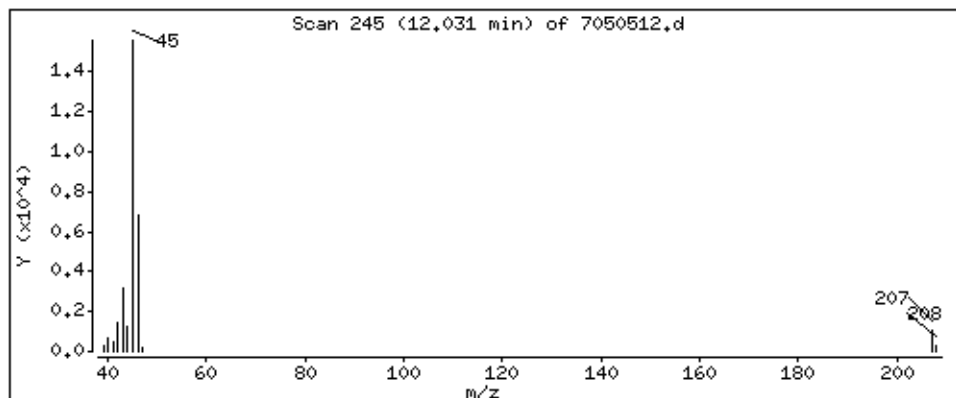
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

14 Ethanol

Concentration: 1581.5 PPBV



Date : 05-MAY-2005 22:18

Client ID:

Instrument: msd7.i

Sample Info: 1.60mL Can#33774

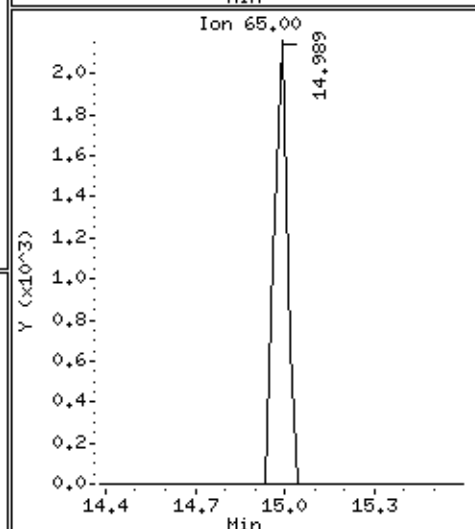
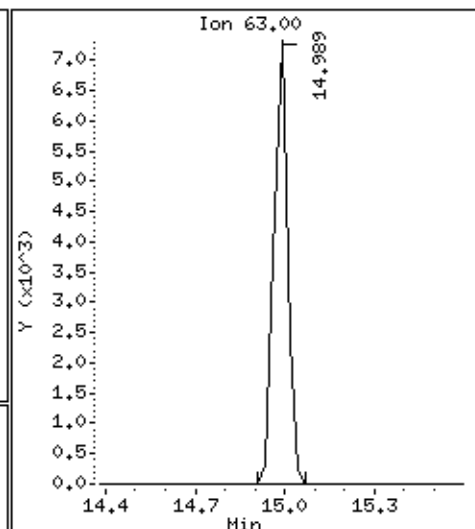
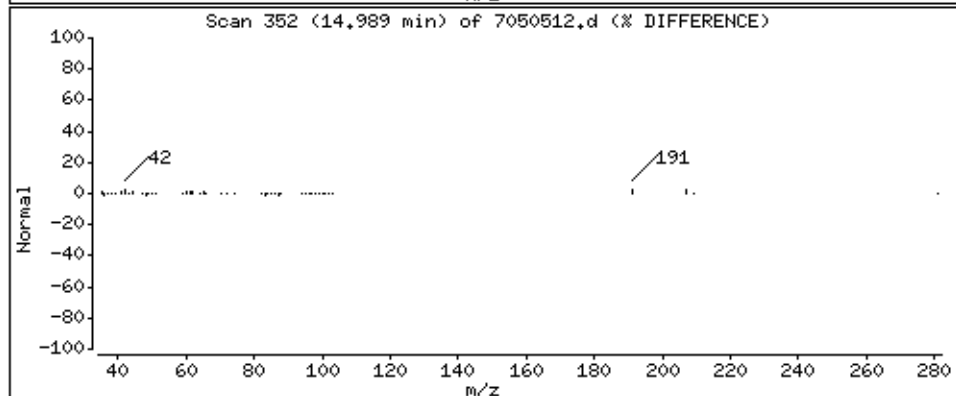
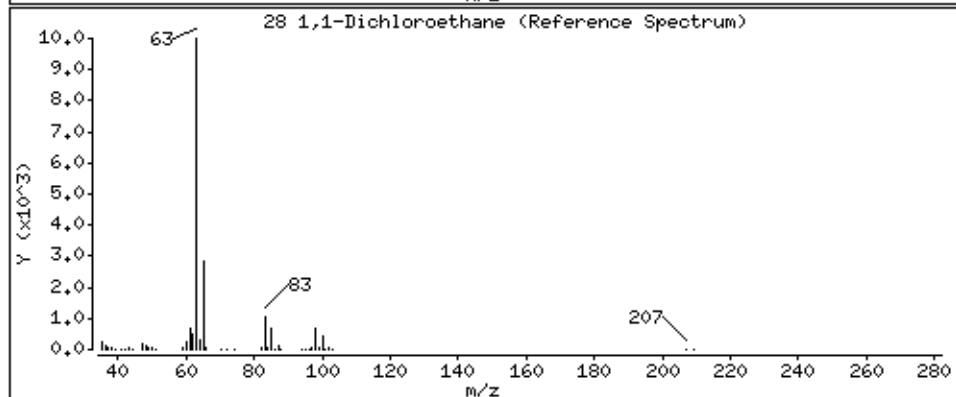
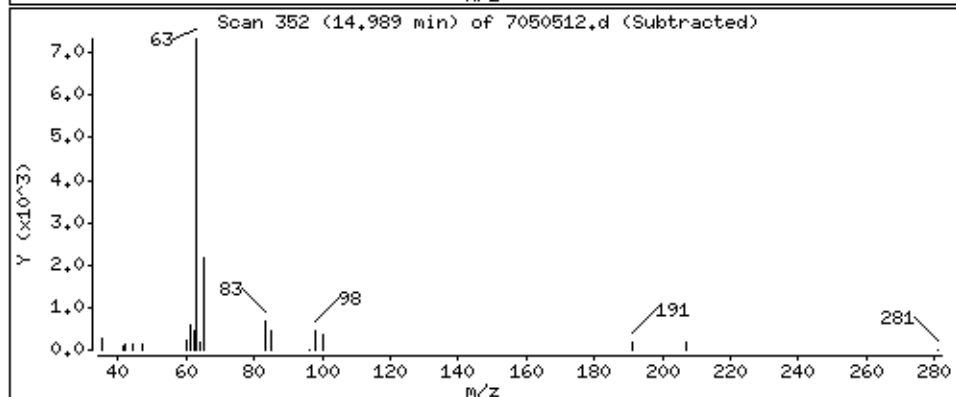
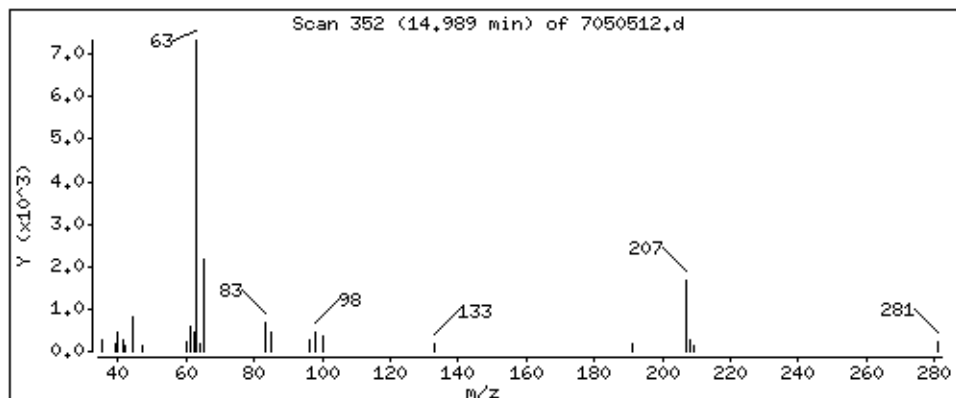
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

28 1,1-Dichloroethane

Concentration: 159.67 PPBV



Date : 05-MAY-2005 22:18

Client ID:

Instrument: msd7.i

Sample Info: 1.60mL Can#33774

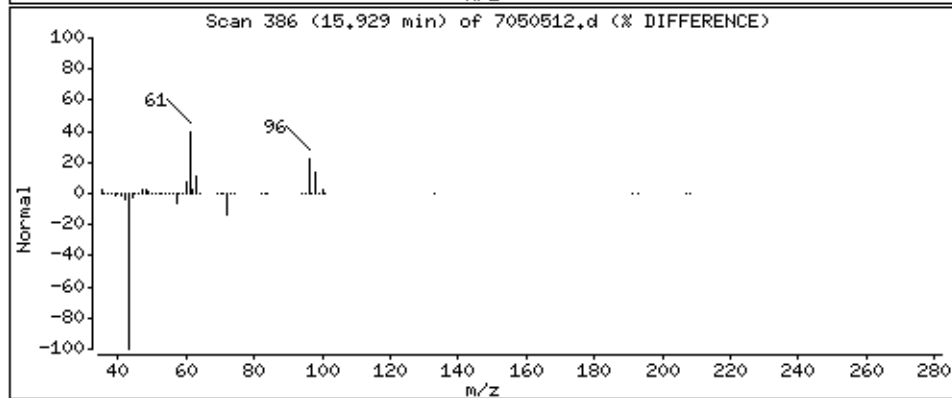
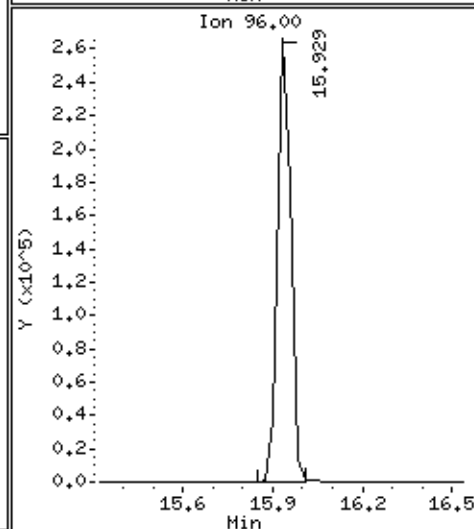
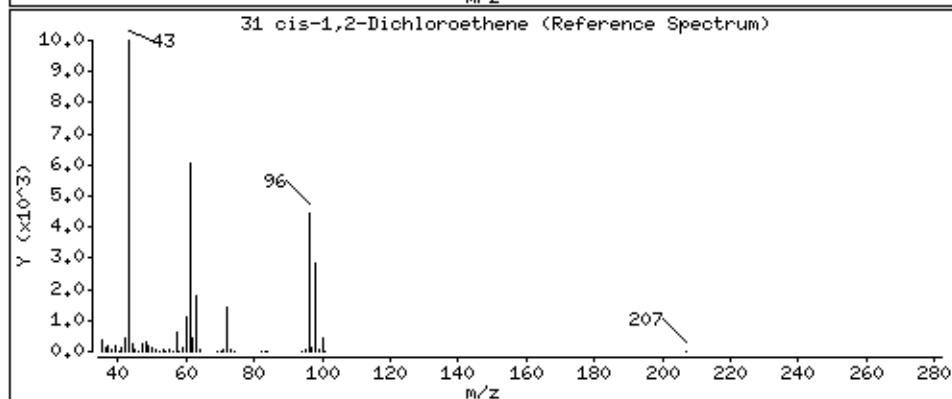
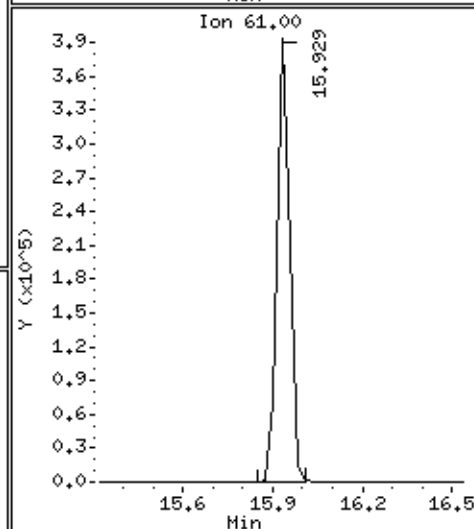
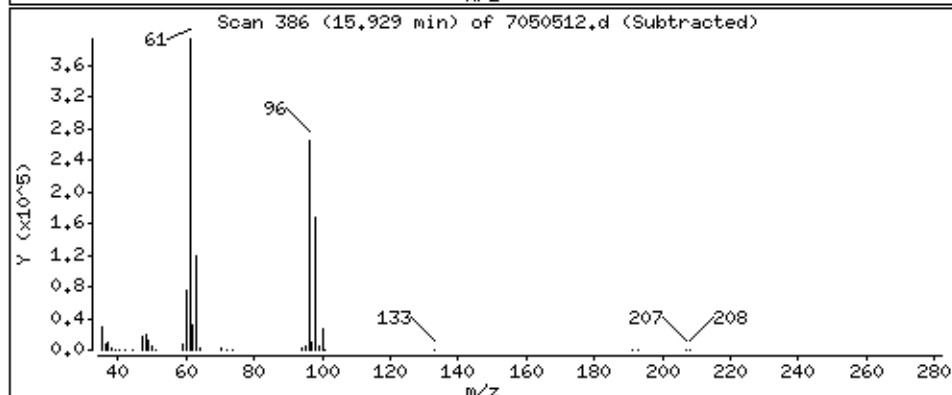
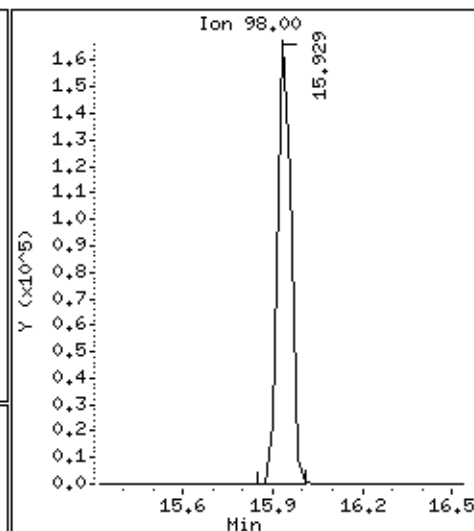
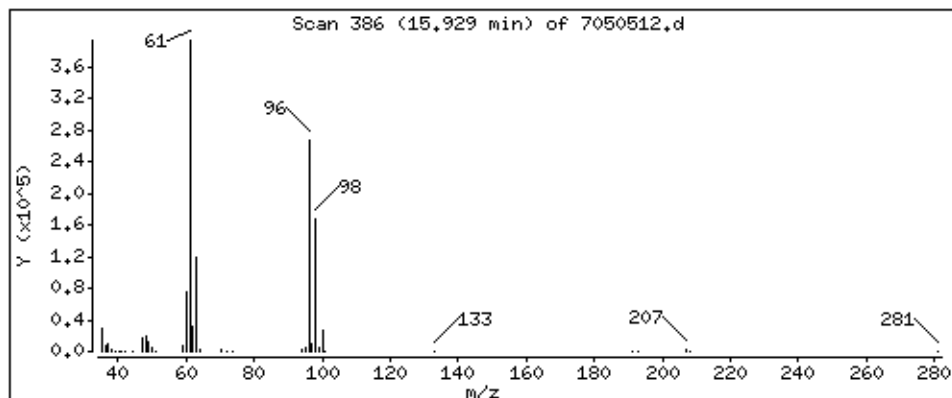
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

31 cis-1,2-Dichloroethene

Concentration: 9076.4 PPBV



Date : 05-MAY-2005 22:18

Client ID:

Instrument: msd7.i

Sample Info: 1.60mL Can#33774

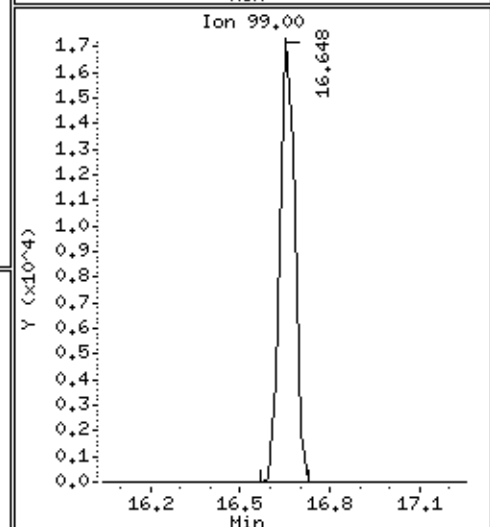
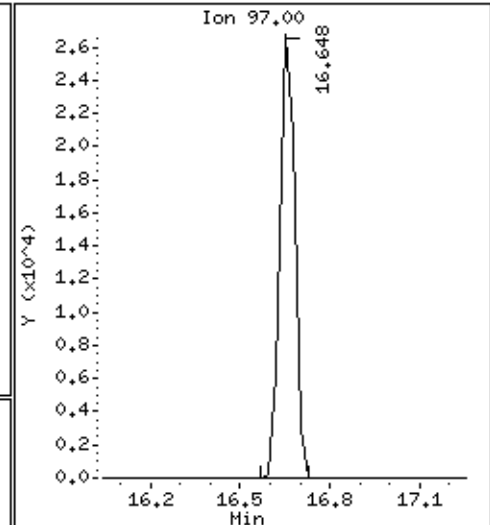
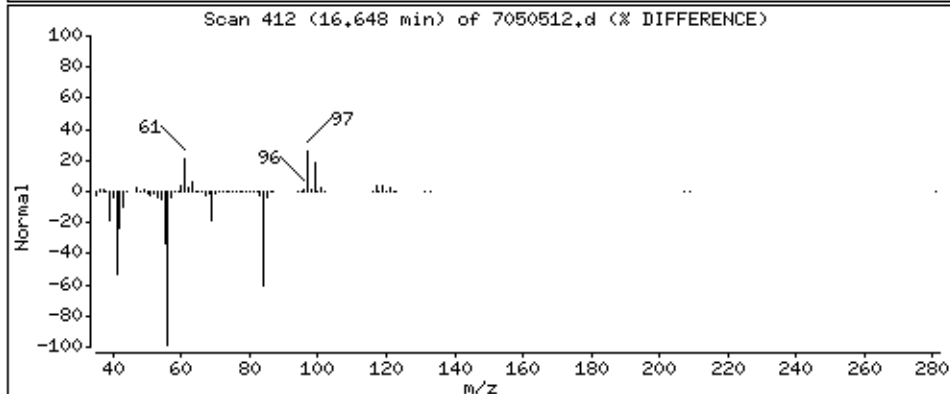
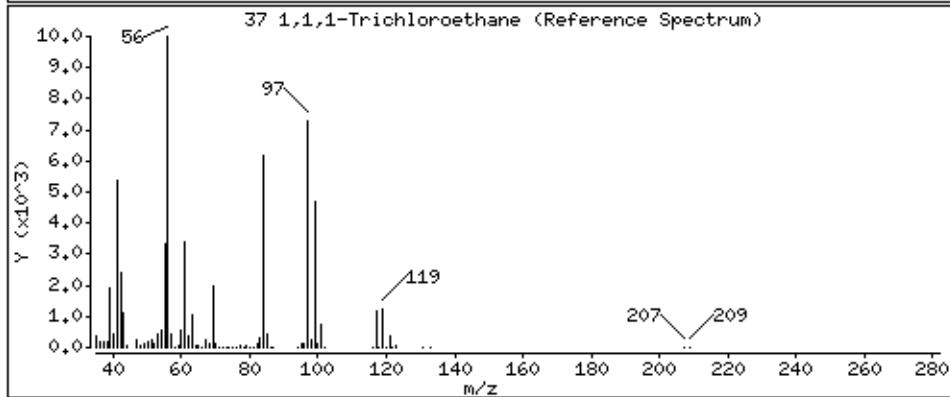
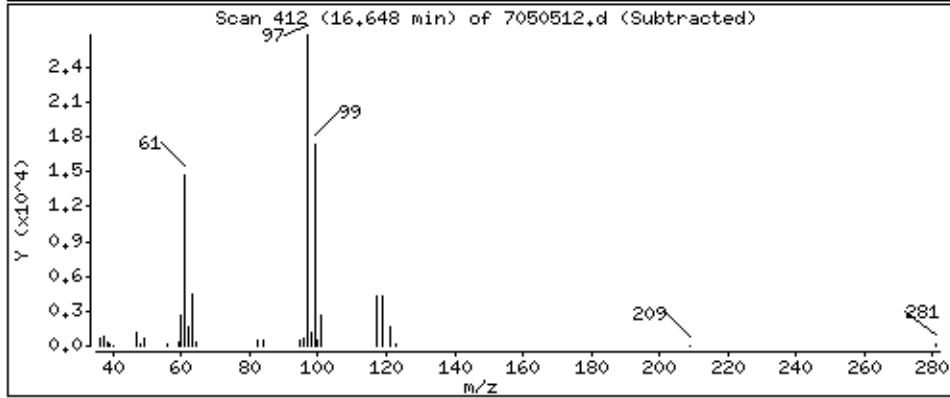
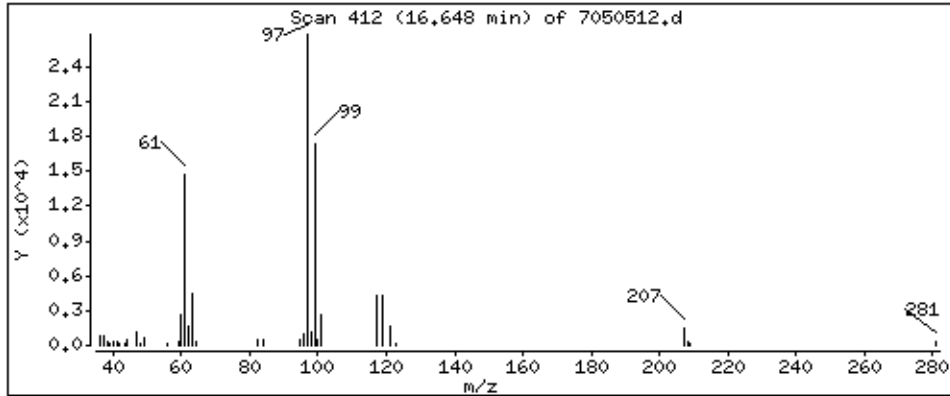
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

37 1,1,1-Trichloroethane

Concentration: 754.80 PPBV



Date : 05-MAY-2005 22:18

Client ID:

Instrument: msd7.i

Sample Info: 1.60mL Can#33774

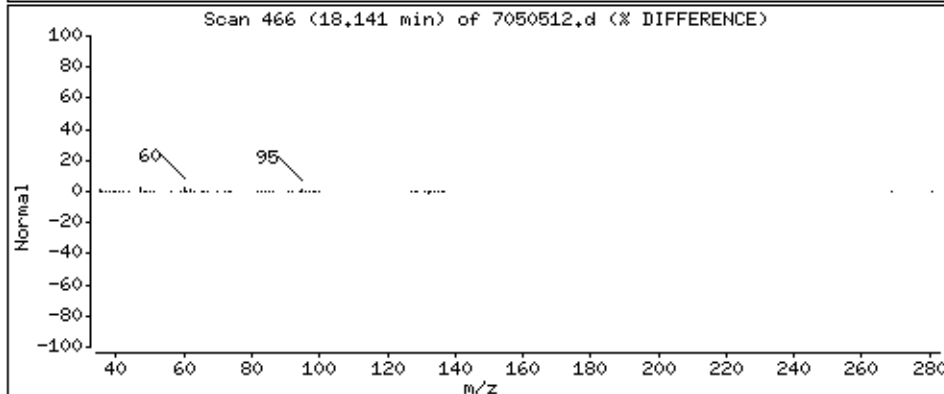
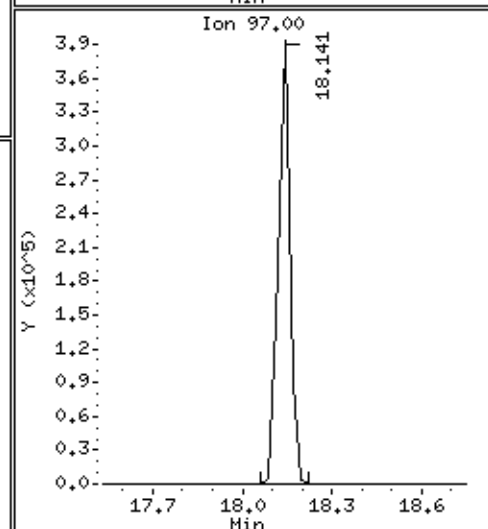
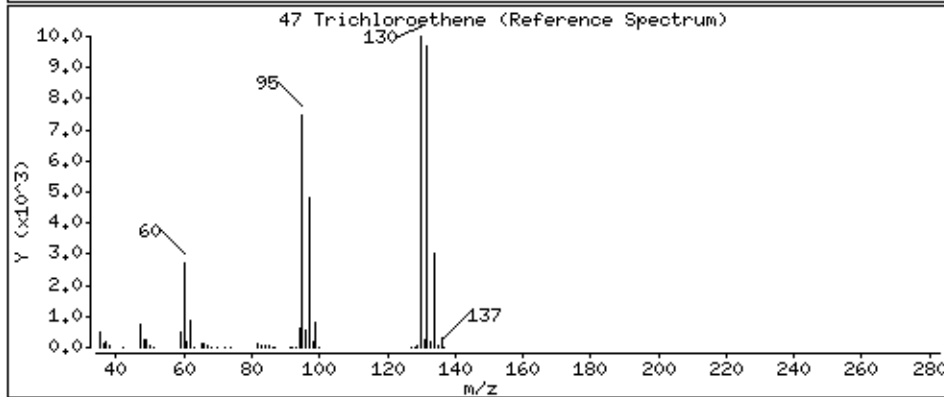
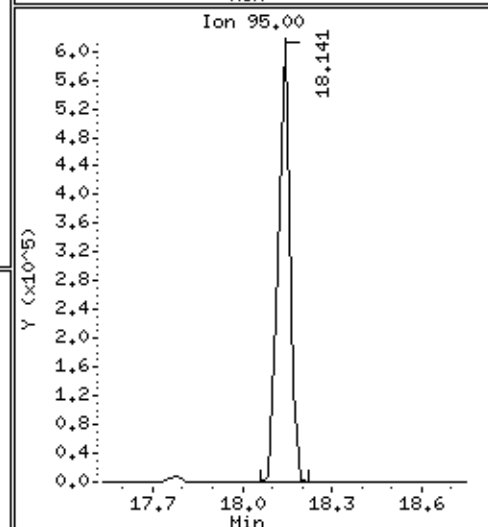
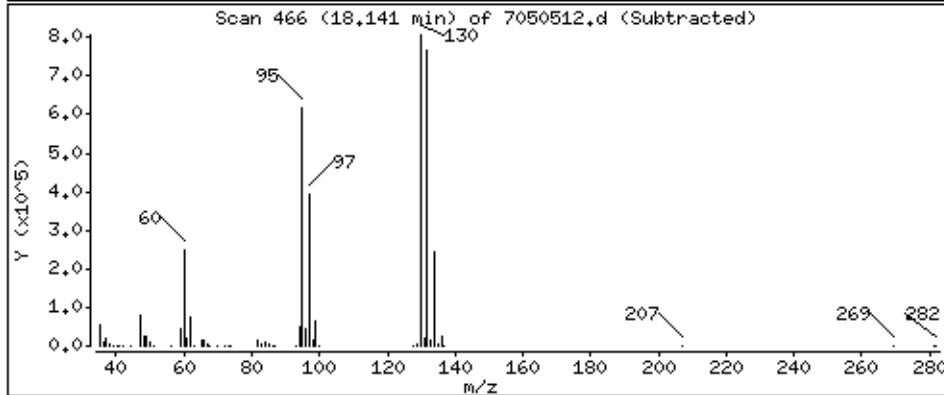
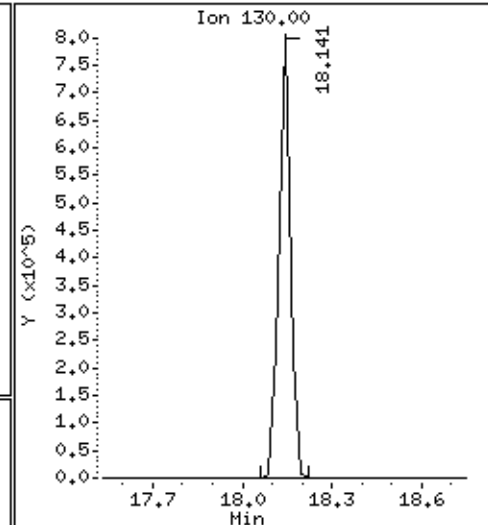
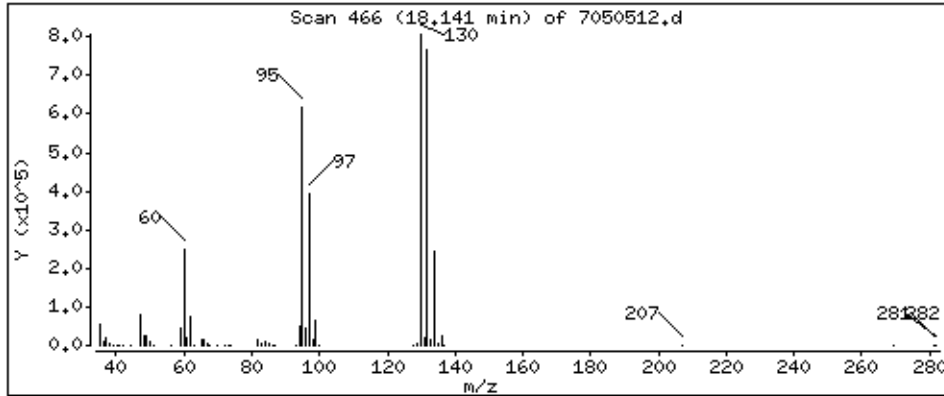
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

47 Trichloroethene

Concentration: 14252 PPBV



Date : 05-MAY-2005 22:18

Client ID:

Instrument: msd7.i

Sample Info: 1.60mL Can#33774

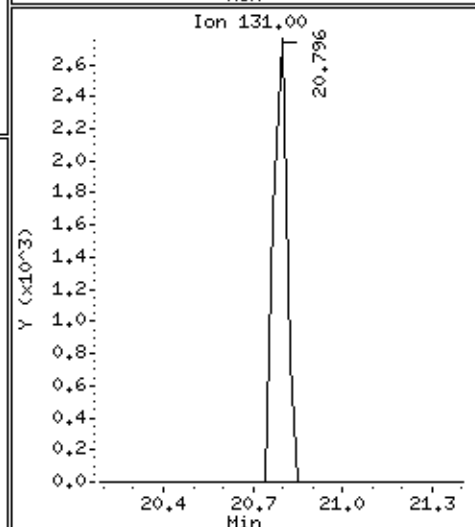
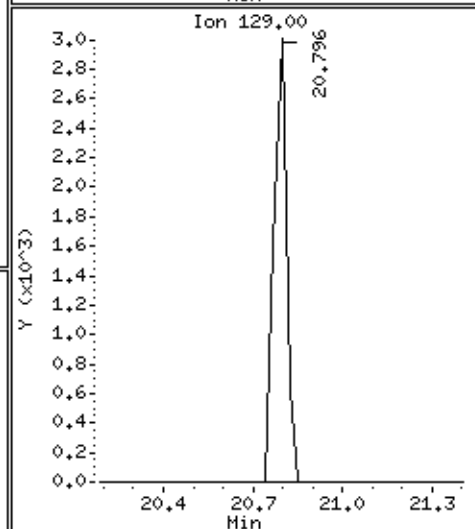
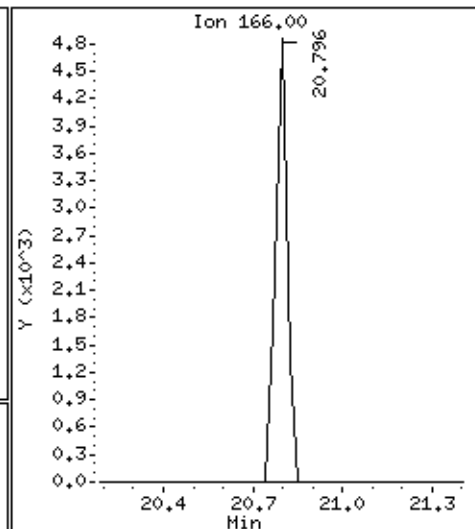
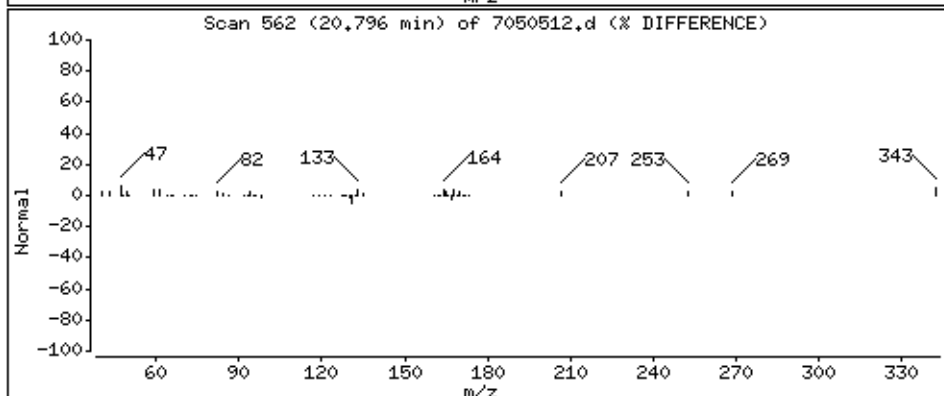
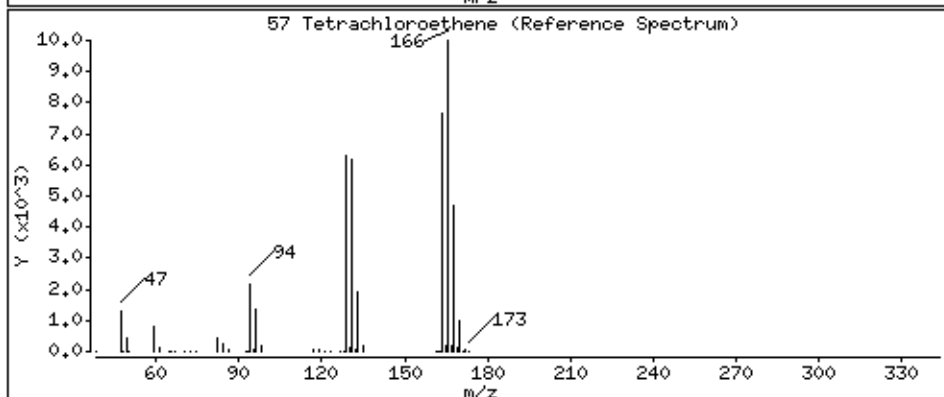
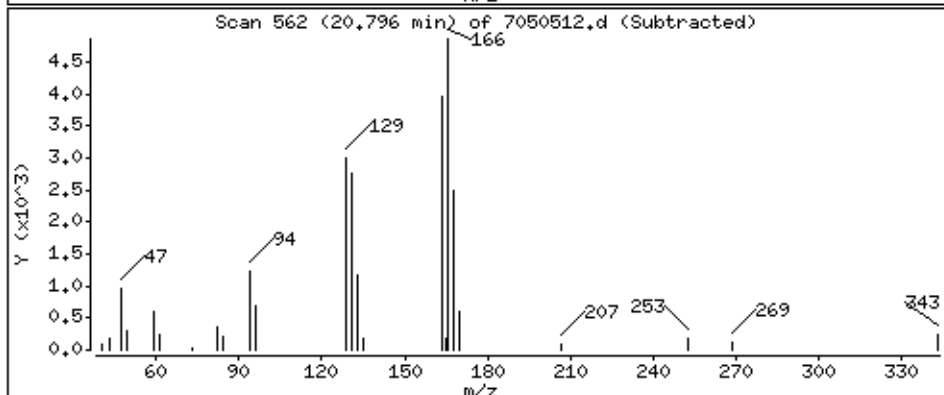
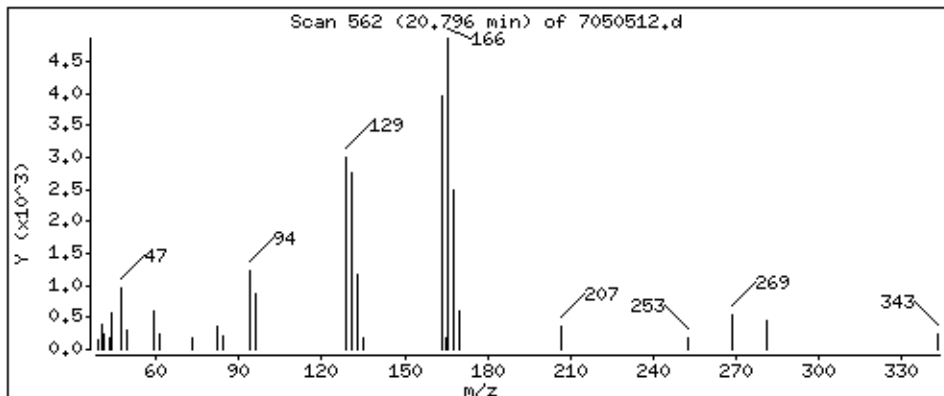
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

57 Tetrachloroethene

Concentration: 78,735 PPBV



Date : 05-MAY-2005 22:18

Client ID:

Instrument: msd7.i

Sample Info: 1.60mL Can#33774

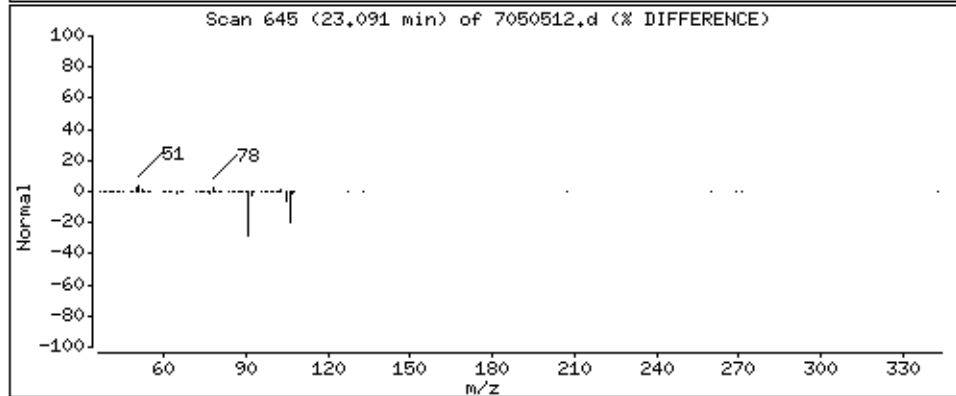
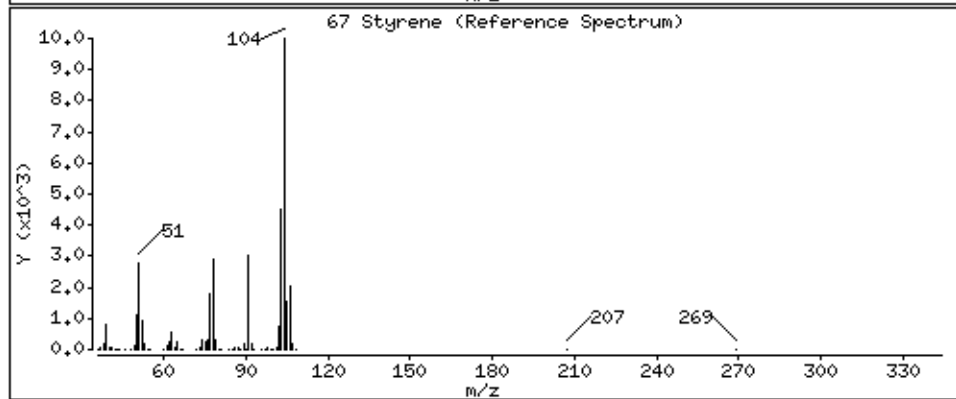
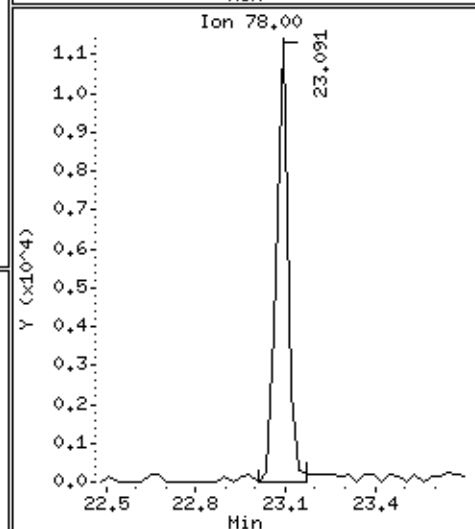
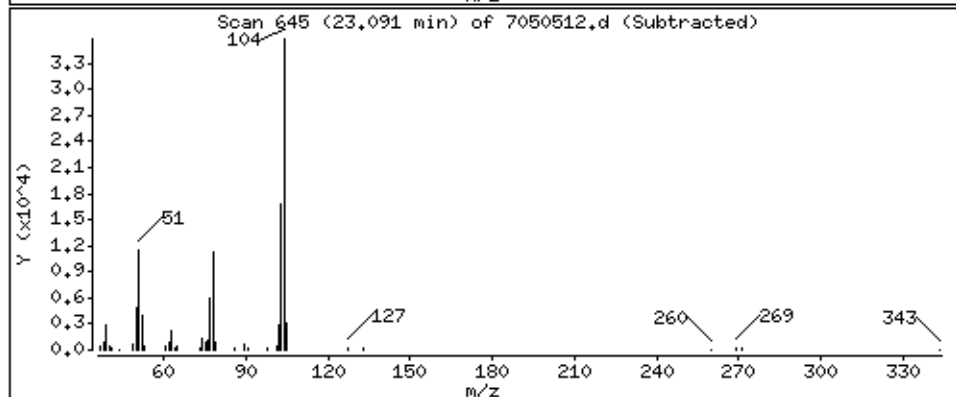
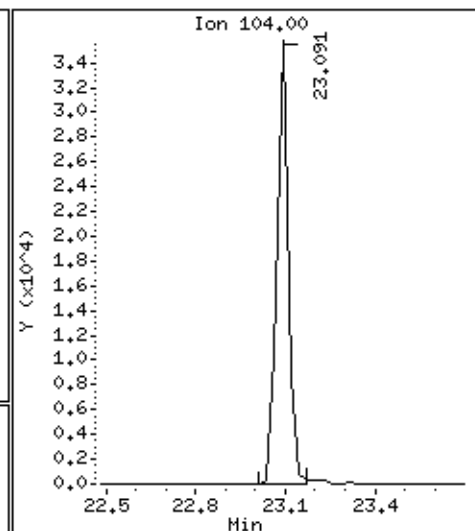
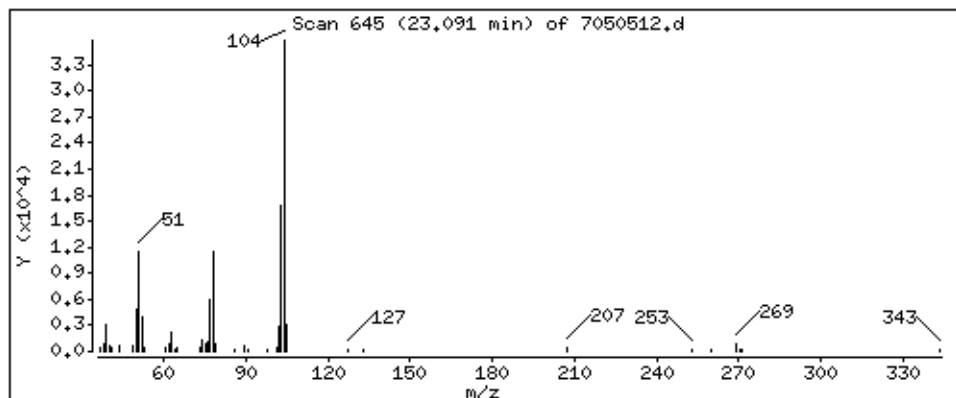
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

67 Styrene

Concentration: 493.62 PPBV



AIR TOXICS LTD.

Client Sample ID: IA-A02

Lab ID#: 0504472-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050513	Date of Collection: 4/21/05
Dil. Factor:	1.71	Date of Analysis: 5/5/05 11:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.17	0.84	0.84	4.2
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.47	0.35	0.98
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.17	Not Detected	0.45	Not Detected
Freon 11	0.17	0.46	0.96	2.6
Ethanol	0.86	2.0	1.6	3.7
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	2.0	2.0	4.7
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	0.85	0.68	3.4
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
Benzene	0.17	0.32	0.55	1.0
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.17	1.2	0.92	6.6
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.86	Not Detected	3.1	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	0.17	0.57	0.64	2.2
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected

AIR TOXICS LTD.

Client Sample ID: IA-A02

Lab ID#: 0504472-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050513	Date of Collection: 4/21/05
Dil. Factor:	1.71	Date of Analysis: 5/5/05 11:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	Not Detected	0.74	Not Detected
m,p-Xylene	0.17	0.21	0.74	0.92
o-Xylene	0.17	Not Detected	0.74	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-05may.b/7050513.d
Lab Smp Id: 0504472-03A
Inj Date : 05-MAY-2005 23:25
Operator : WW
Smp Info : 500mL #20940
Misc Info : 6.5"Hg->5psi ERM
Comment :
Method : /chem/msd7.i/7-05may.b/t14l501a.m
Meth Date : 09-May-2005 14:50 lsoohoo
Cal Date : 01-MAY-2005 17:45
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd7.i
Quant Type: ISTD
Cal File: 7050113.d
Compound Sublist: AT.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

					CONCENTRATIONS				
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 34 Bromochloromethane						CAS #:	74-97-5		
16.317	16.317	(1.000)	130	260715	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)	128	199969			47.67-	107.67	76.70
16.317	16.317	(1.000)	49	477060			141.21-	201.21	182.98

* 46 1,4-Difluorobenzene						CAS #:	540-36-3		
17.782	17.782	(1.000)	114	1151223	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)	88	144613			0.00-	42.60	12.56

* 62 Chlorobenzene-d5						CAS #:	3114-55-4		
22.123	22.123	(1.000)	117	999993	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)	82	447835			13.88-	73.88	44.78

\$ 41 1,2-Dichloroethane-d4						CAS #:	17060-07-0		
17.202	17.202	(1.054)	65	241618	9.66504	9.665	80.00-	120.00	100.00
17.202	17.202	(1.054)	67	137136			39.84-	99.84	56.76

\$ 53 Toluene-d8						CAS #:	2037-26-5		
19.884	19.884	(1.118)	98	1036924	9.80900	9.809	80.00-	120.00	100.00
19.884	19.884	(1.118)	70	89141			0.00-	38.58	8.60

CONCENTRATIONS									
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.884	19.884	(1.118)	100	716080			38.13-	98.13	69.06

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	588399	9.77603	9.776	80.00-	120.00	100.00
23.948	23.948	(1.082)	95	601156			73.19-	133.19	102.17
23.948	23.948	(1.082)	176	568534			66.66-	126.66	96.62

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.921	(0.365)	85	38954	0.49444	0.8455	80.00-	120.00	100.00
5.948	5.948	(0.365)	87	12302			1.94-	61.94	31.58

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	19735	0.27635	0.4726	80.00-	120.00	100.00
7.303	7.303	(0.448)	52	6755			1.37-	61.37	34.23

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	17653	0.26780	0.4579	80.00-	120.00	100.00
11.036	11.036	(0.676)	103	11706			34.23-	94.23	66.31

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	26767	1.14378	1.956	80.00-	120.00	100.00
12.031	12.031	(0.737)	43	5731			0.00-	47.77	21.41
12.031	12.031	(0.737)	46	10818			10.78-	70.78	40.42

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	104928	1.16388	1.990	80.00-	120.00	100.00
12.833	12.833	(0.786)	58	31763			1.60-	61.60	30.27

31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.930	15.930	(0.976)	98	15738	0.49993	0.8549	80.00-	120.00	100.00
15.930	15.930	(0.976)	61	35544			189.88-	249.88	225.84
15.930	15.930	(0.976)	96	27842			129.12-	189.12	176.91

42 Benzene						CAS #:	71-43-2		
17.202	17.202	(0.967)	78	26802	0.18834	0.3220	80.00-	120.00	100.00
17.202	17.202	(0.967)	77	5547			0.00-	51.60	20.70

47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	57331	0.71957	1.230	80.00-	120.00	100.00
18.142	18.142	(1.020)	95	47181			47.95-	107.95	82.30
18.142	18.142	(1.020)	97	29545			20.27-	80.27	51.53

54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	58996	0.33519	0.5732	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	34896			29.68-	89.68	59.15

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
					ON-COL (PPBV)	FINAL (PPBV)		
65	m,p-Xylene					CAS #: 108-38-3		
22.427	22.427	(1.014)	106	13029	0.12340	0.2110	80.00- 120.00	100.00
22.427	22.427	(1.014)	91	23126			116.47- 176.47	177.50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i	Calibration Date: 05-MAY-2005
Lab File ID: 7050513.d	Calibration Time: 13:08
Lab Smp Id: 0504472-03A	
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: WW	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 6.5"Hg->5psi	ERM

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	273711	164227	383195	260715	-4.75
46 1,4-Difluorobenze	1190742	714445	1667039	1151223	-3.32
62 Chlorobenzene-d5	1102533	661520	1543546	999993	-9.30

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0504472-03A	
Level: LOW	Operator: WW
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 6.5"Hg->5psi	ERM

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.665	96.65	70-130
\$ 53 Toluene-d8	10.000	9.809	98.09	70-130
\$ 71 Bromofluorobenzene	10.000	9.776	97.76	70-130

Date : 05-MAY-2005 23:25

Client ID:

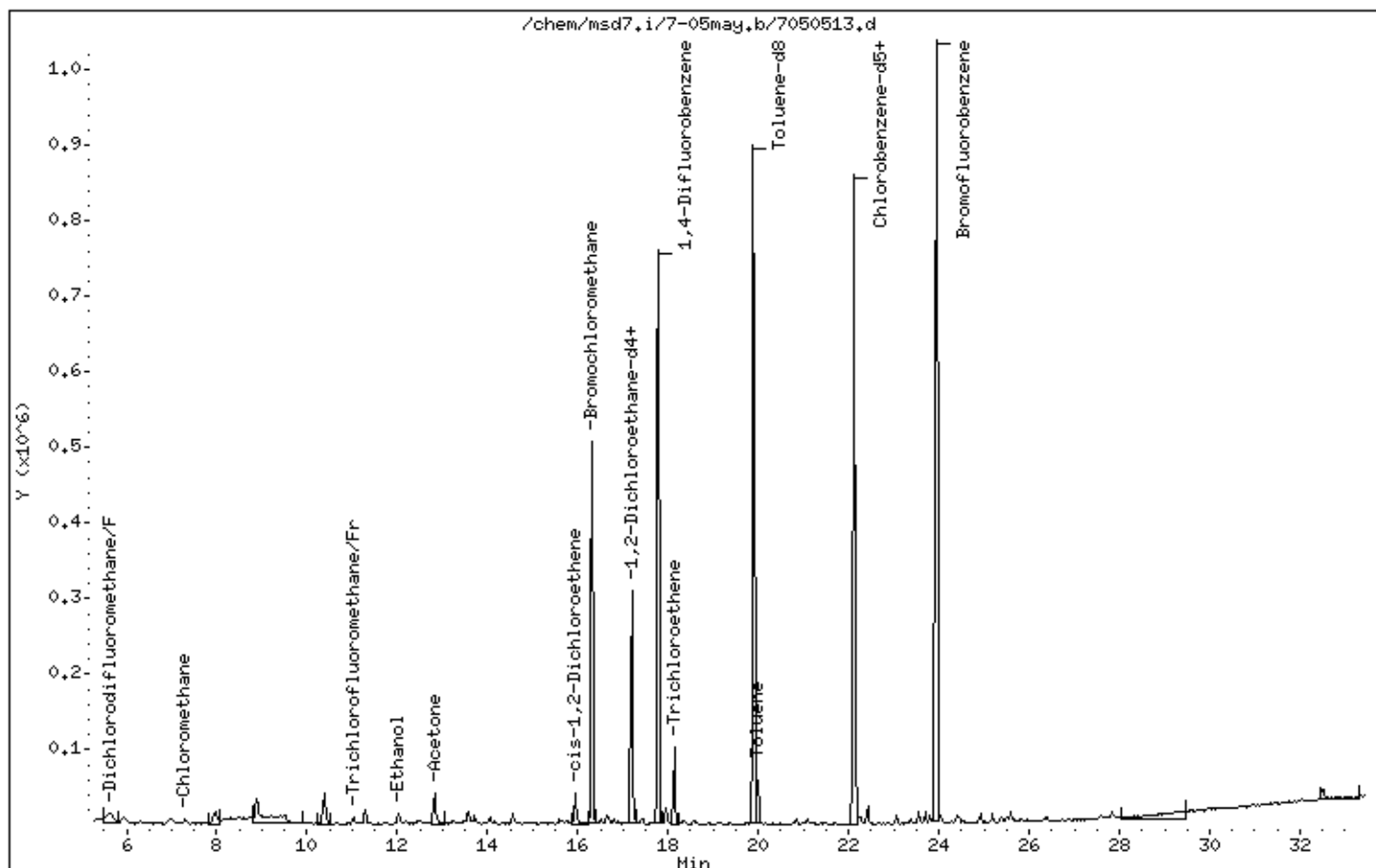
Instrument: msd7.i

Sample Info: 500mL #20940

Operator: WM

Column phase: RTX-624

Column diameter: 0.32



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

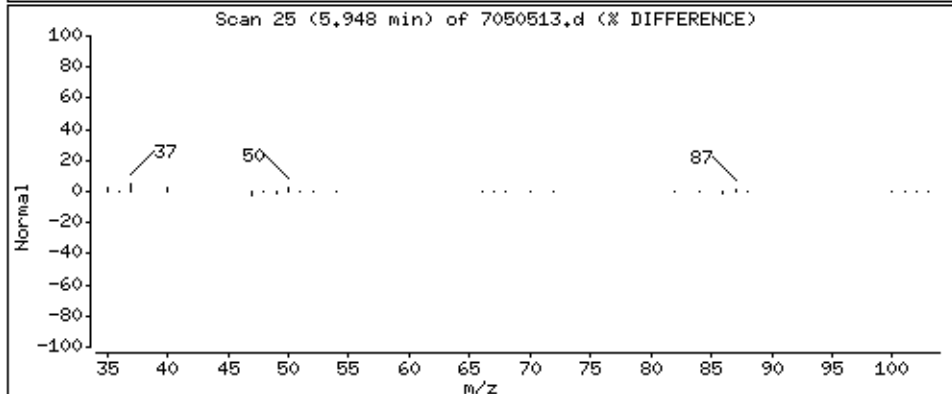
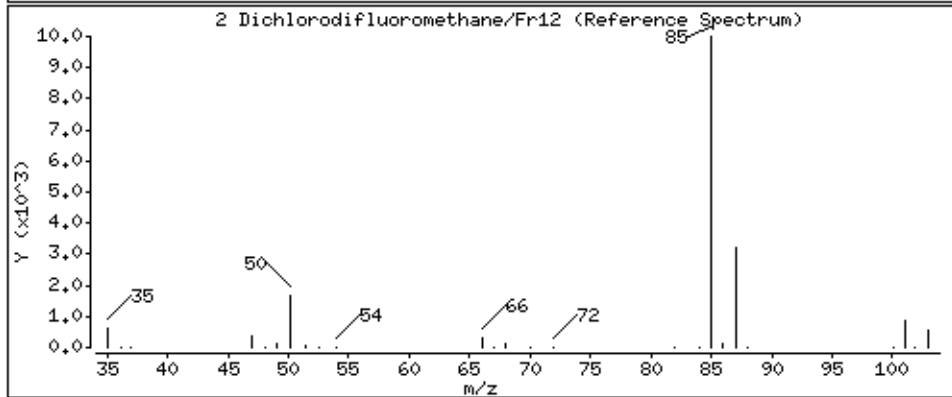
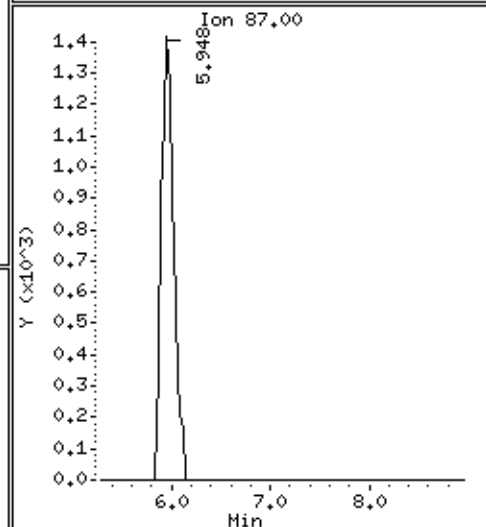
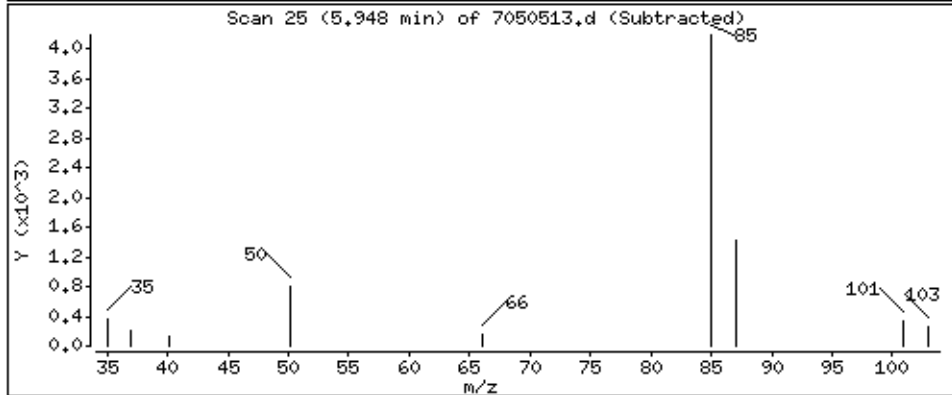
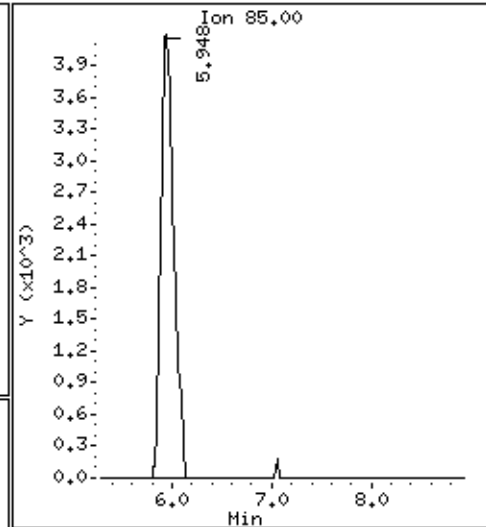
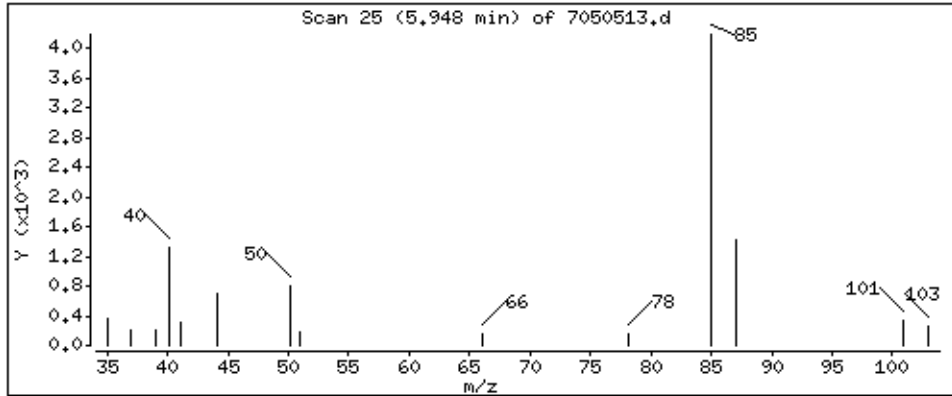
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

2 Dichlorodifluoromethane/Fr12

Concentration: 0.8455 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

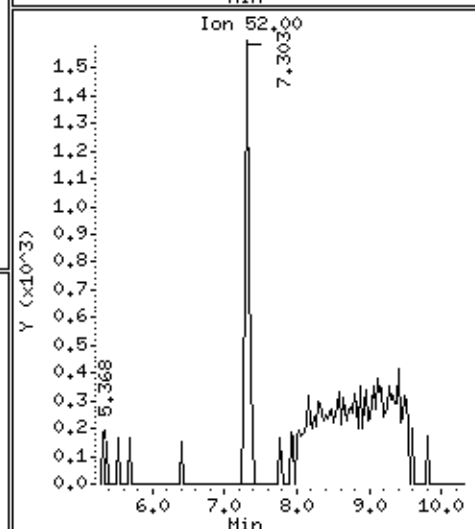
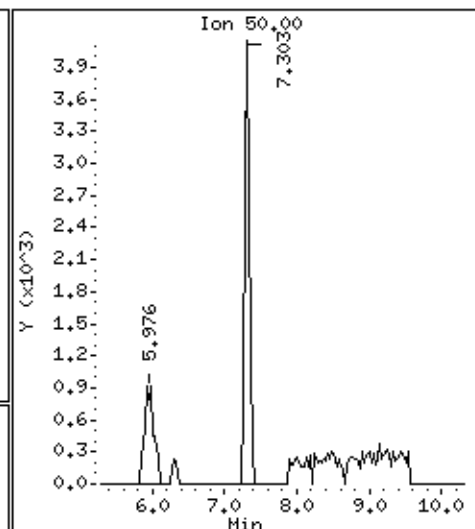
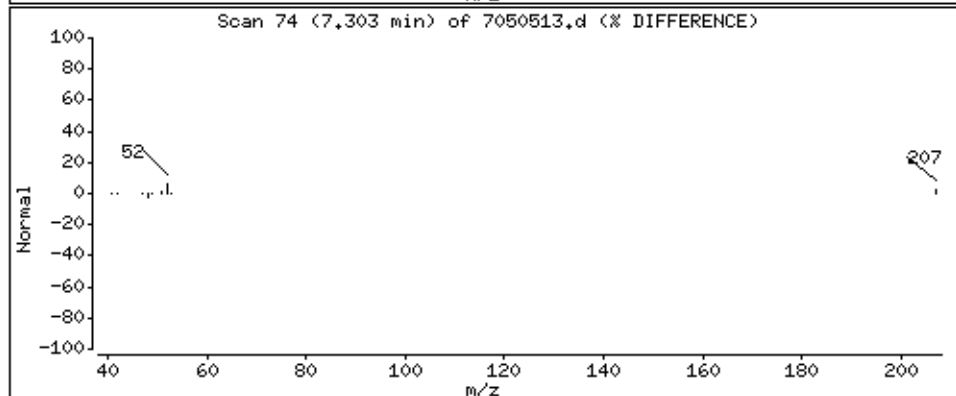
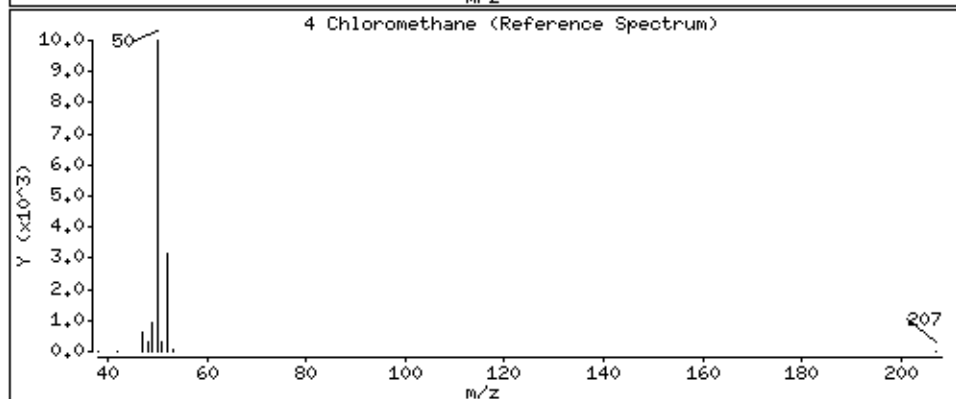
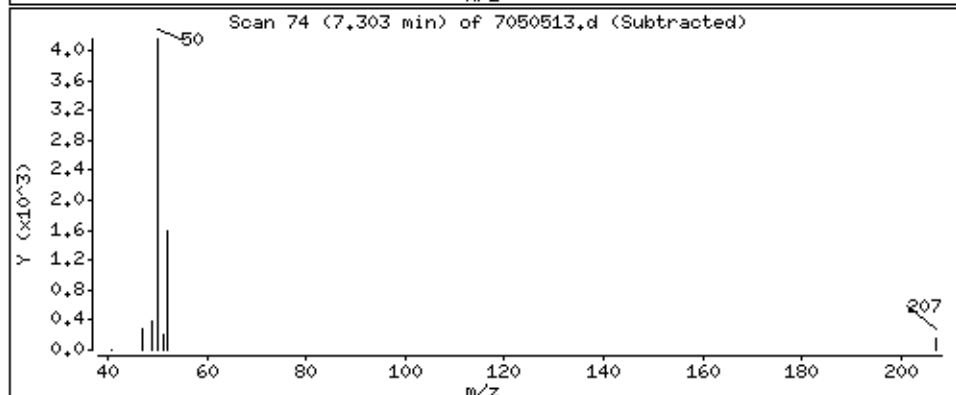
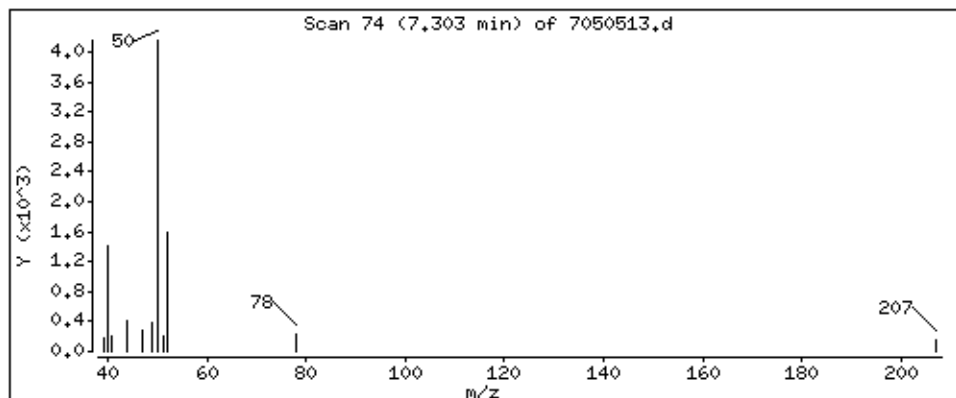
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

4 Chloromethane

Concentration: 0.4726 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

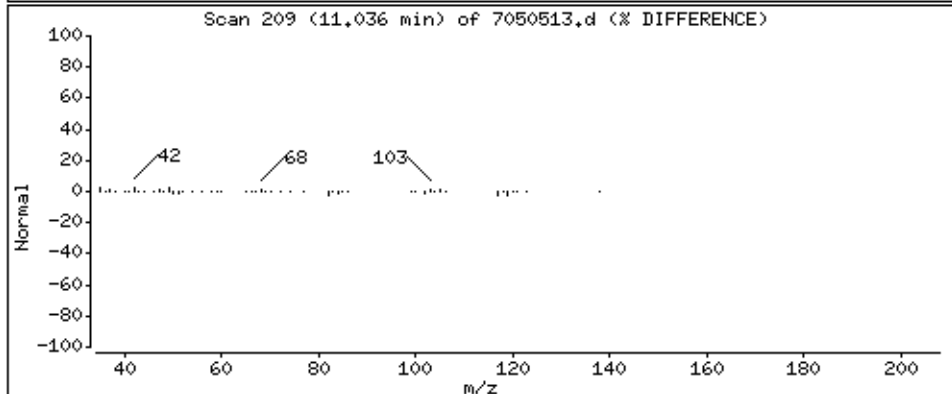
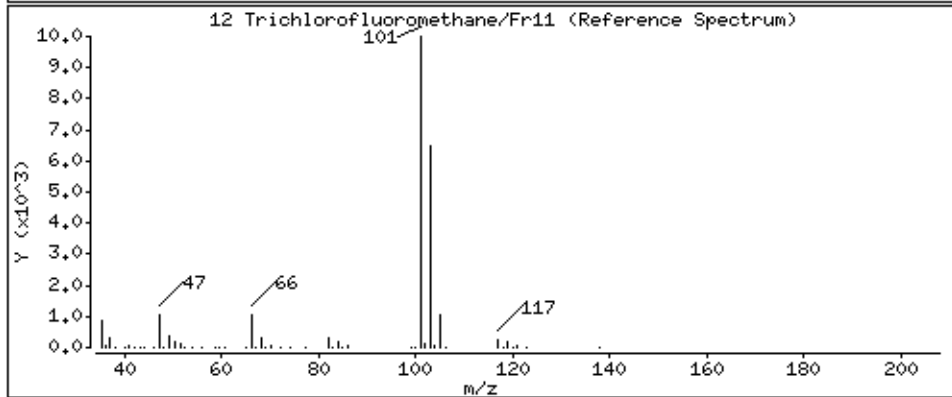
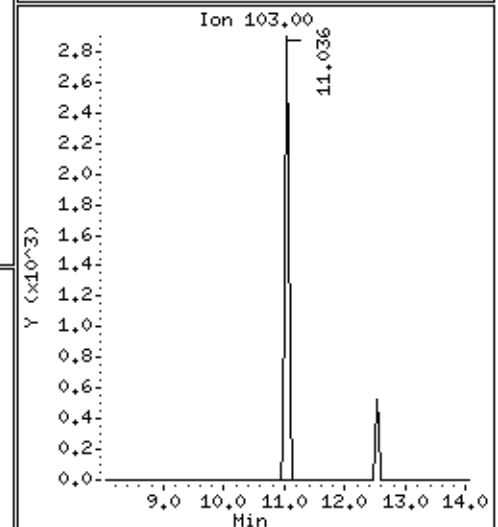
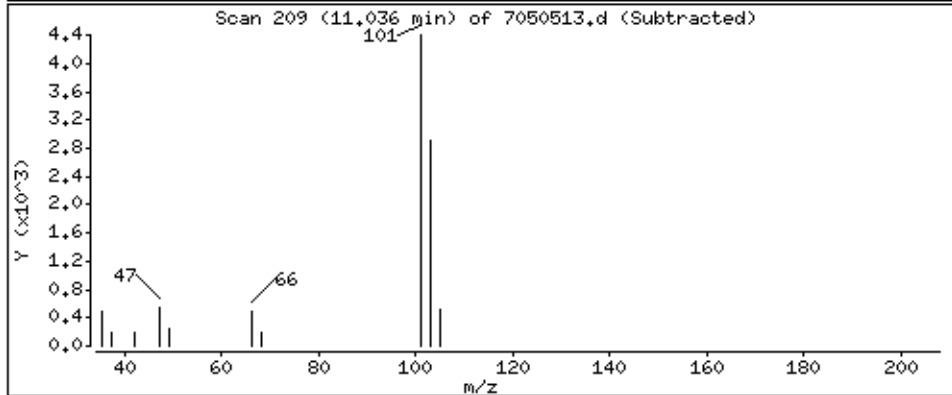
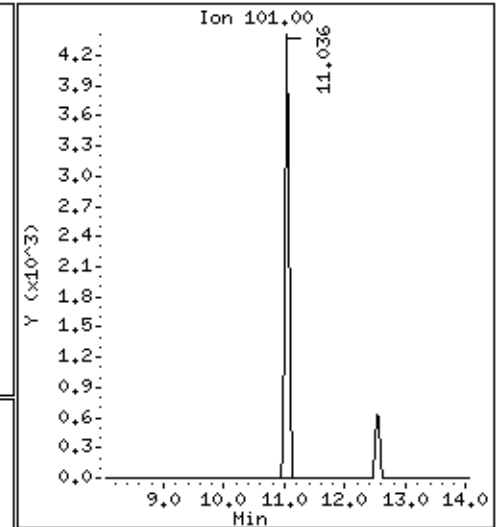
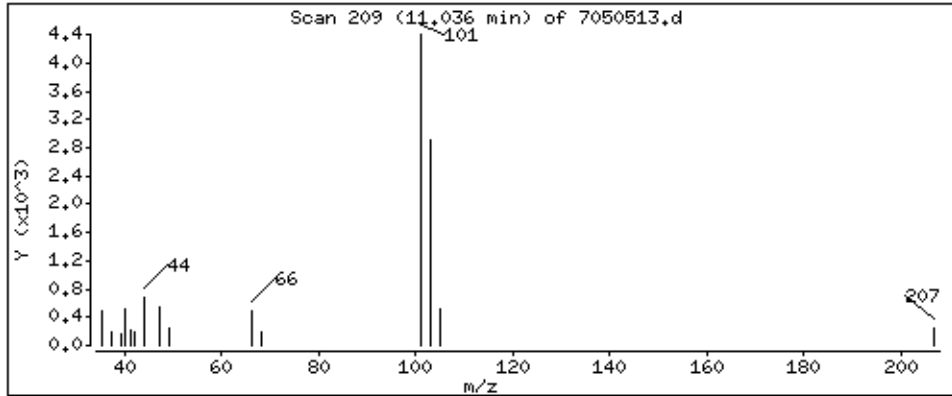
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

12 Trichlorofluoromethane/Fr11

Concentration: 0.4579 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

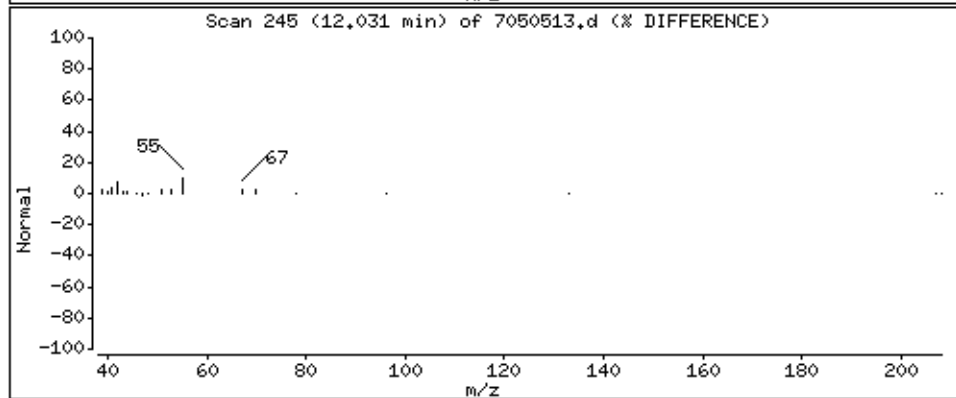
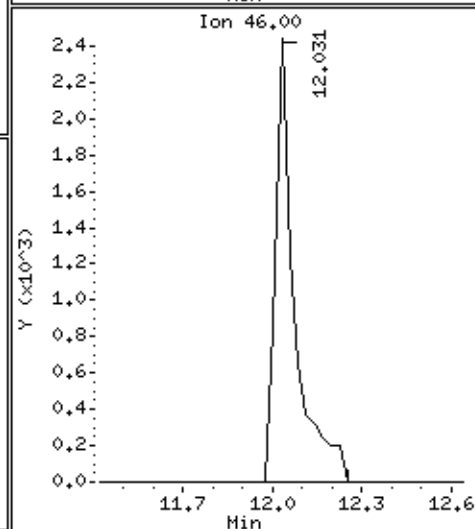
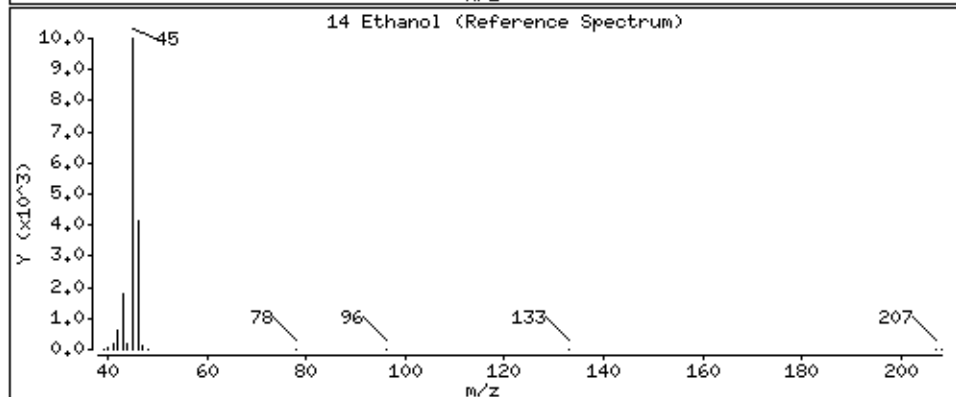
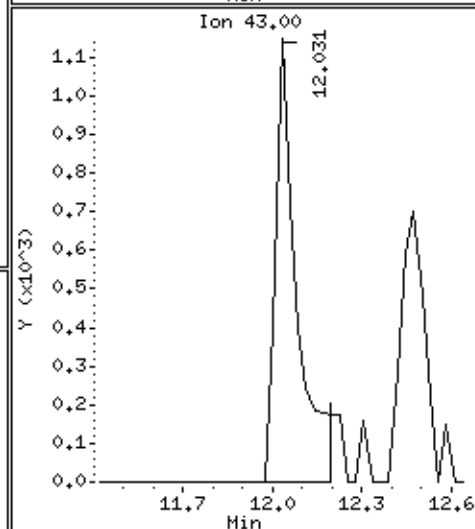
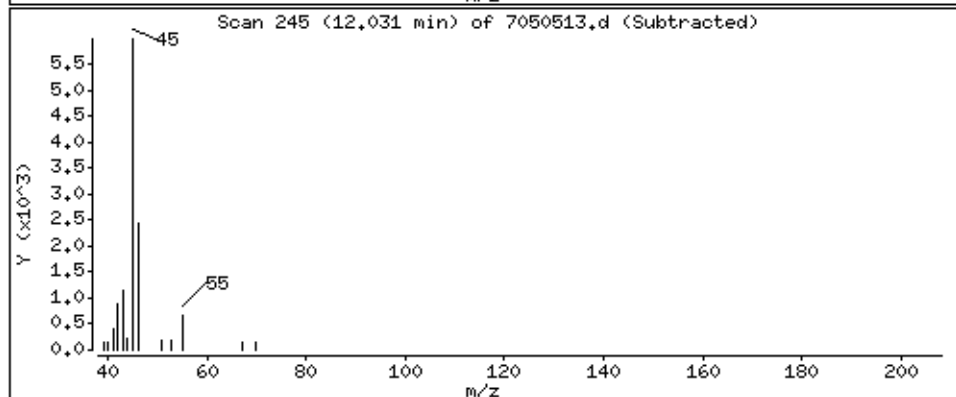
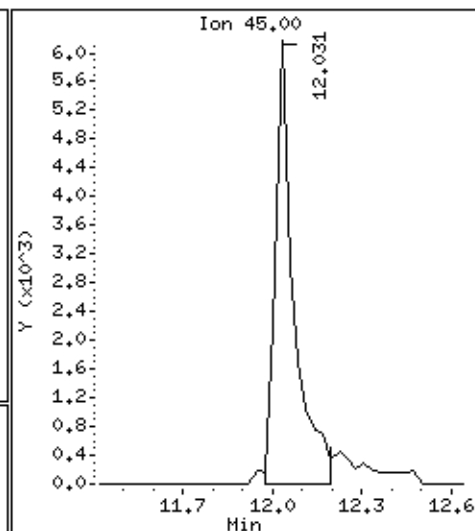
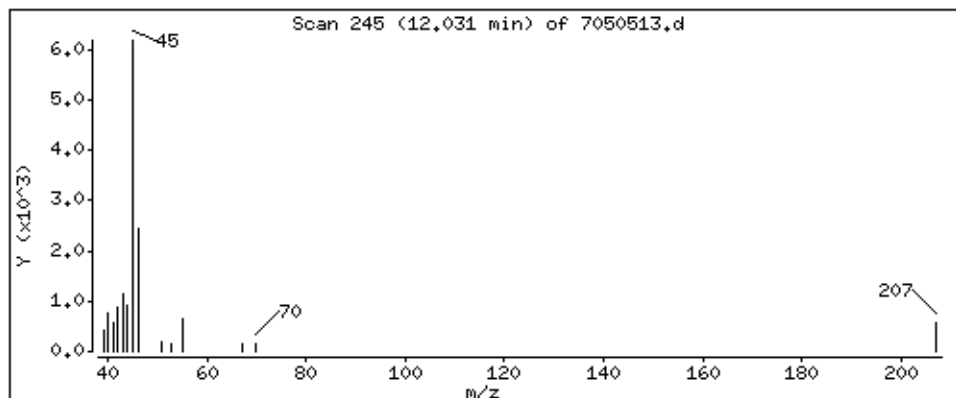
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

14 Ethanol

Concentration: 1.956 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

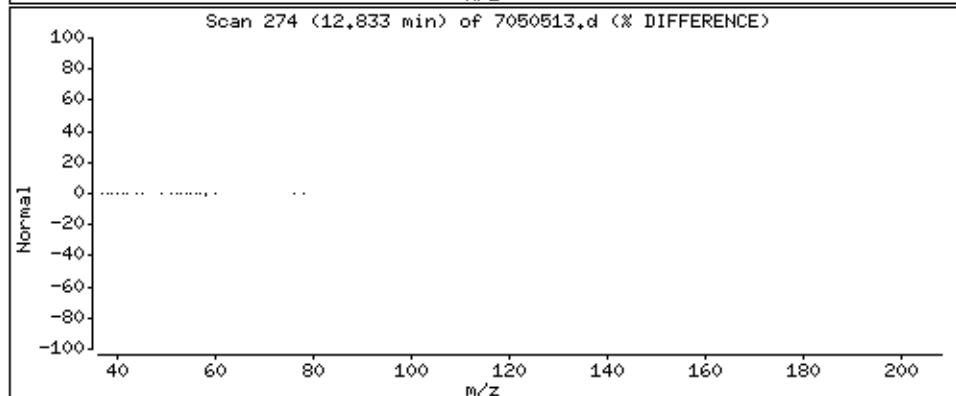
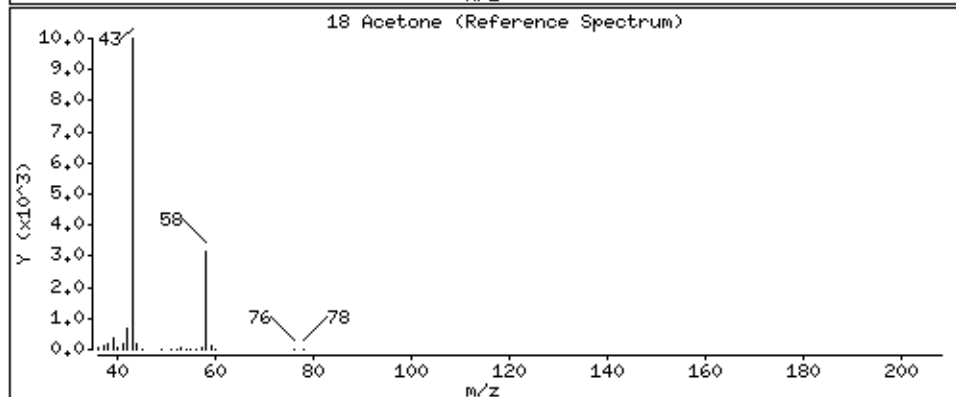
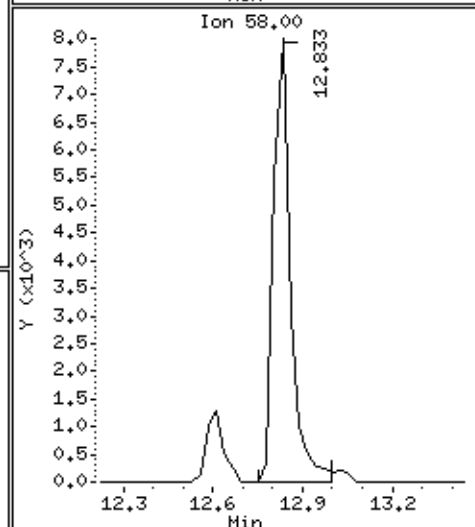
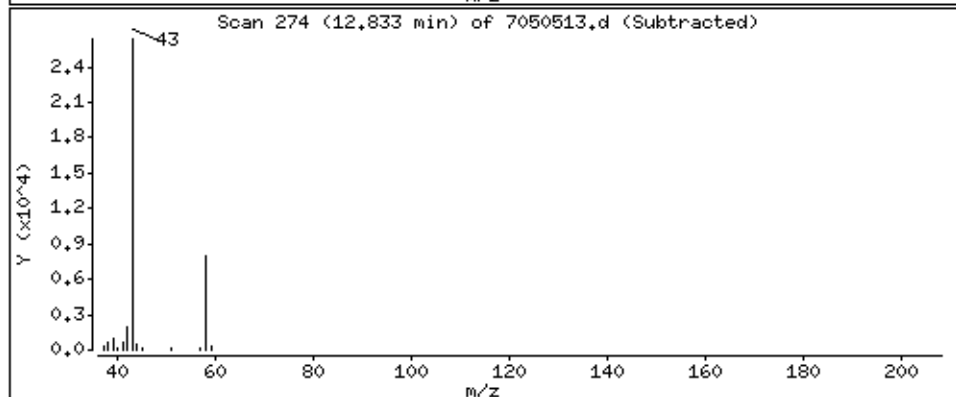
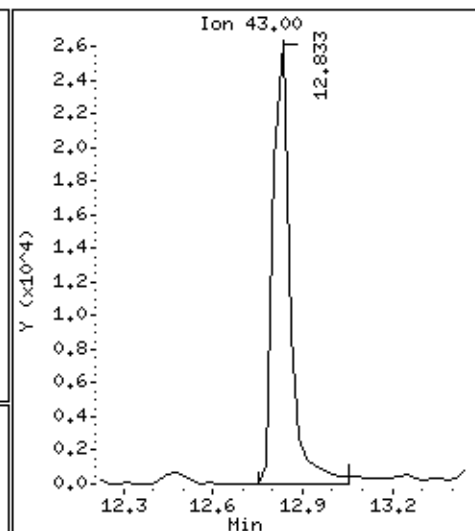
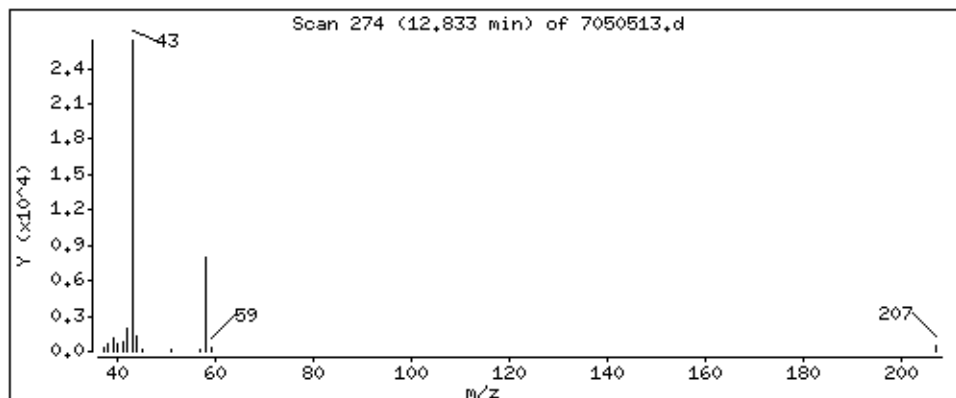
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

18 Acetone

Concentration: 1.990 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

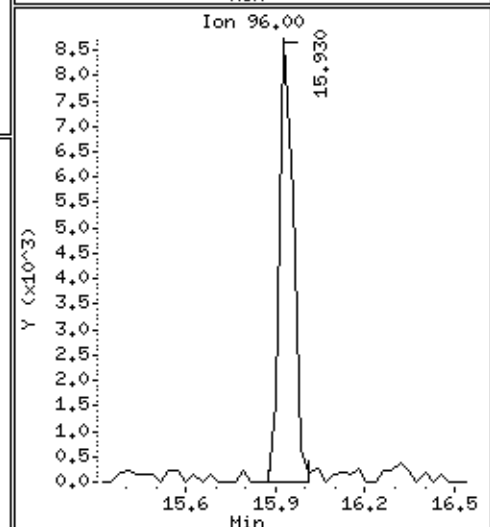
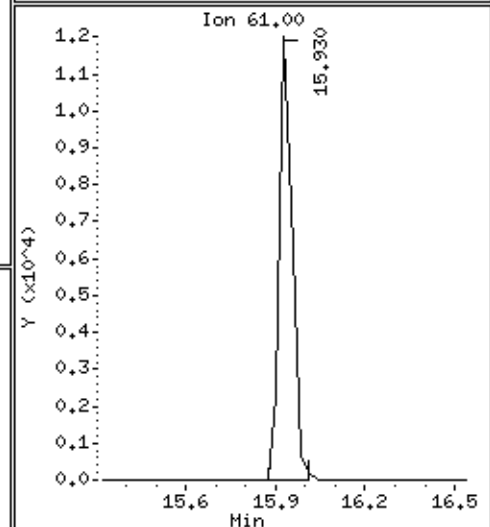
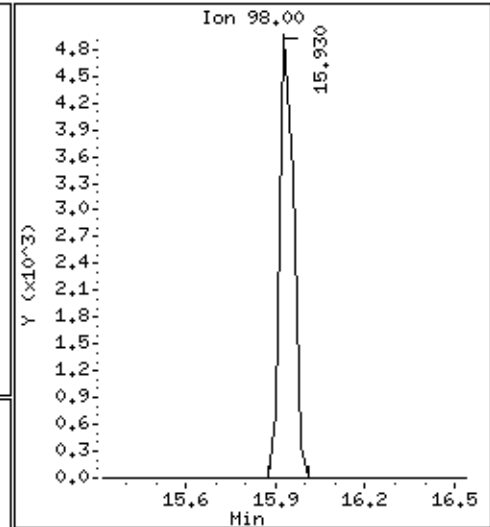
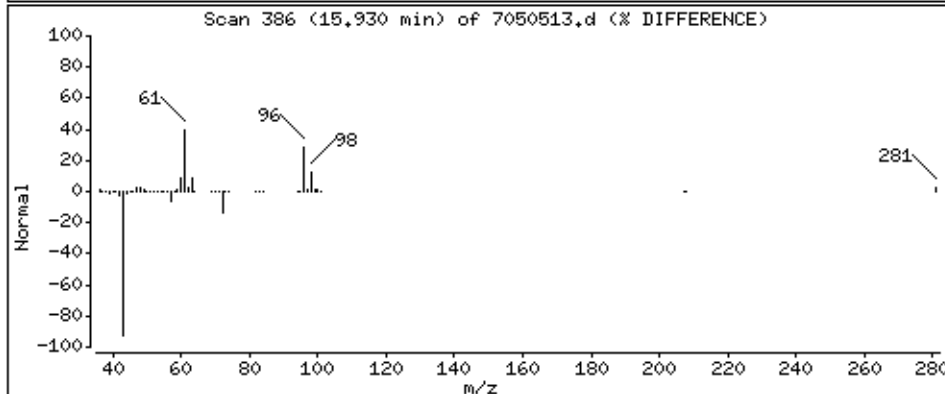
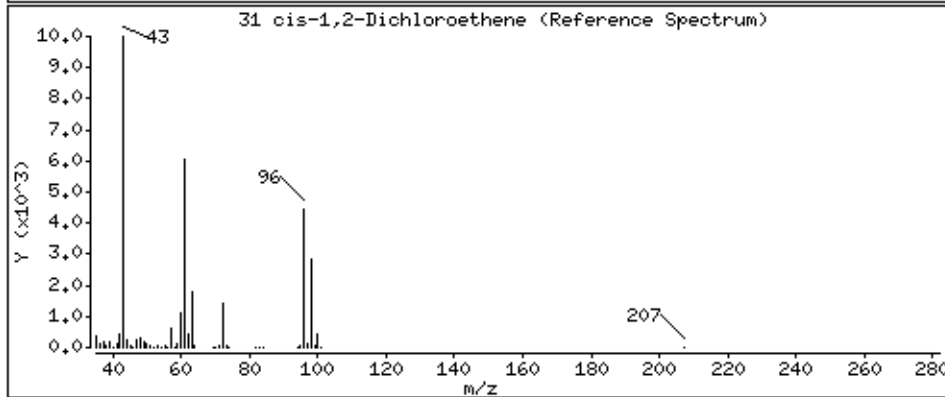
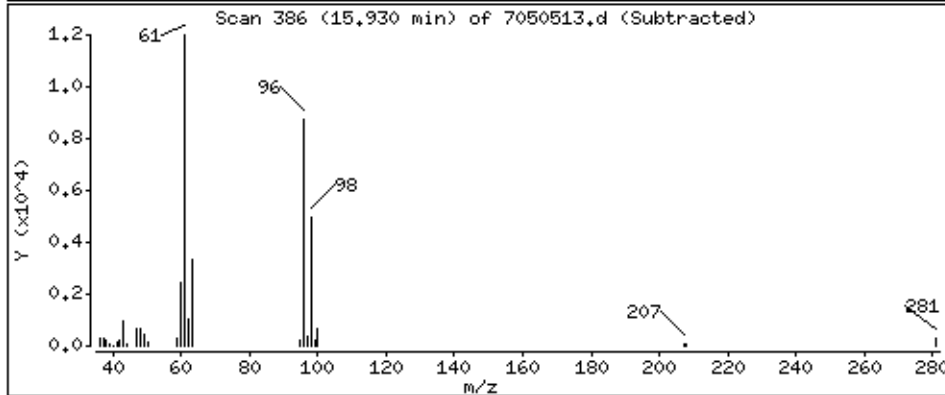
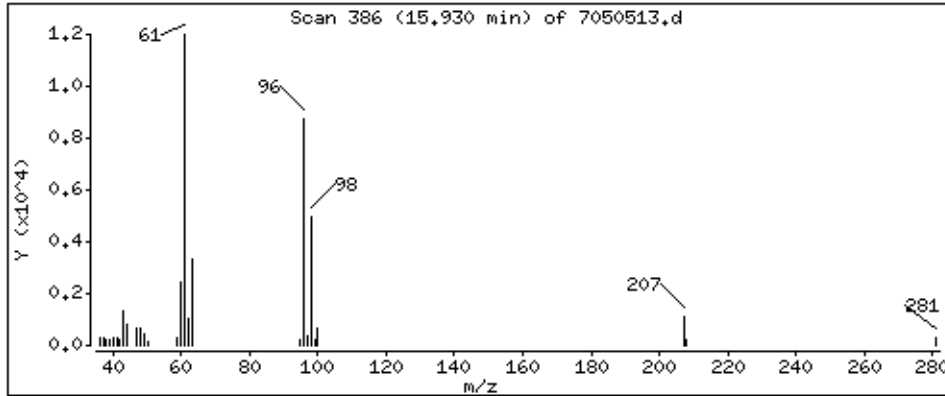
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

31 cis-1,2-Dichloroethene

Concentration: 0.8549 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

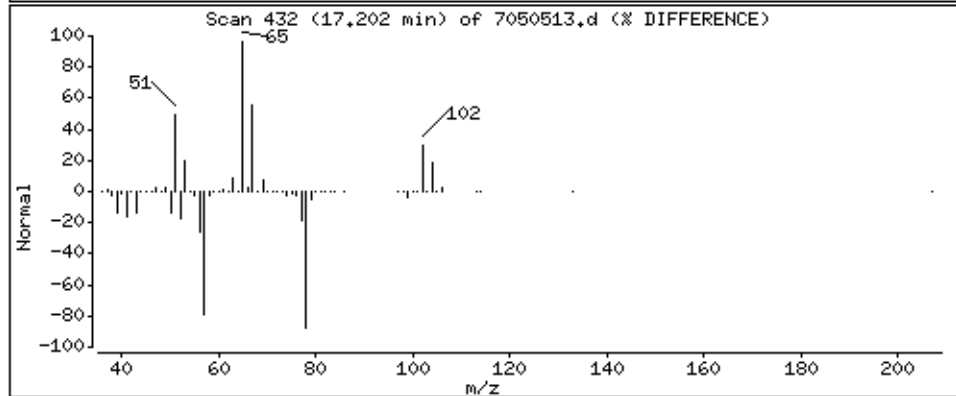
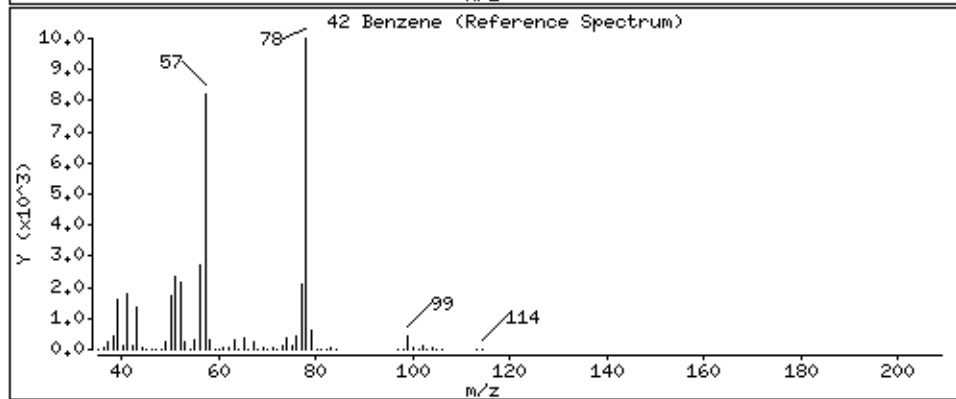
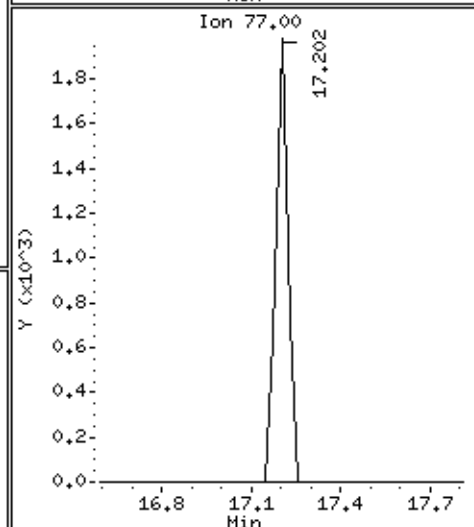
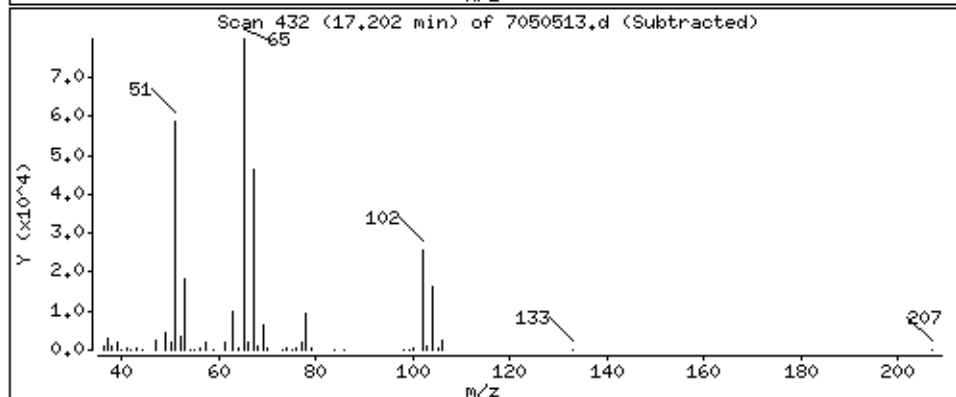
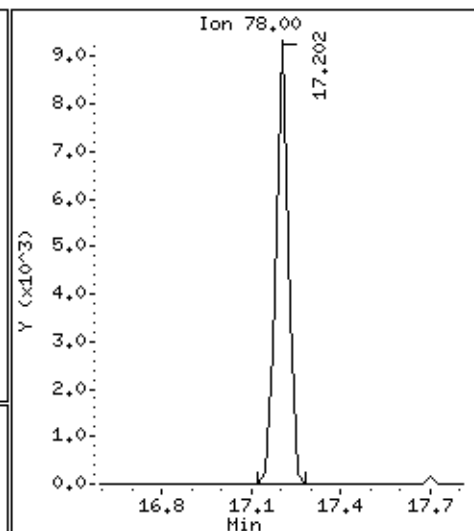
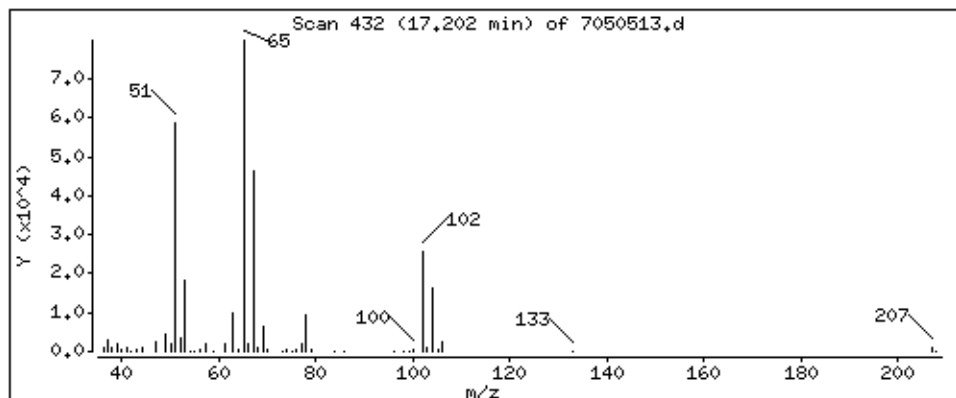
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

42 Benzene

Concentration: 0.3220 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

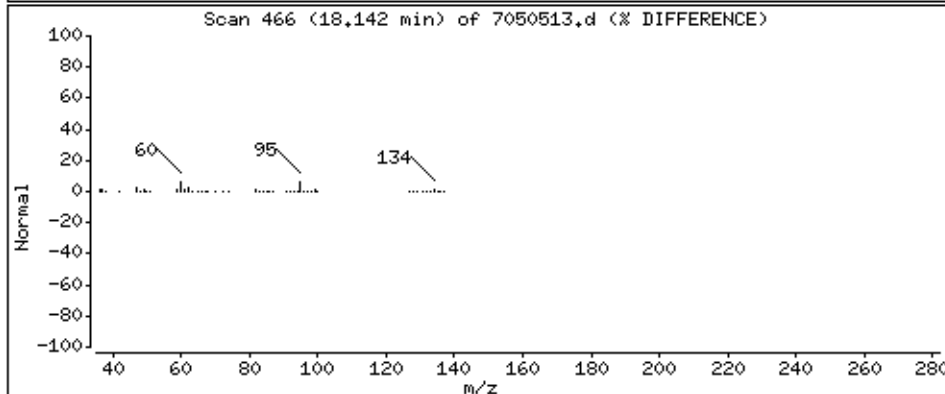
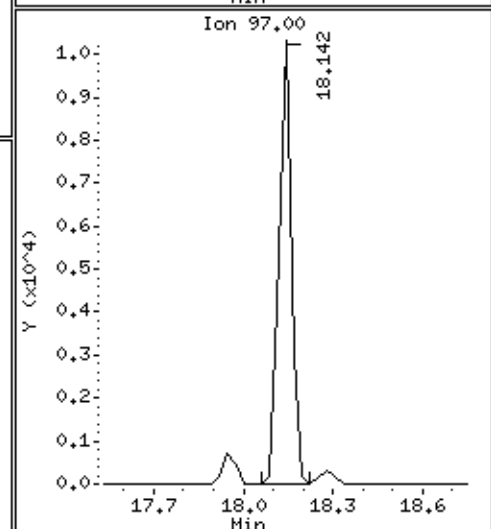
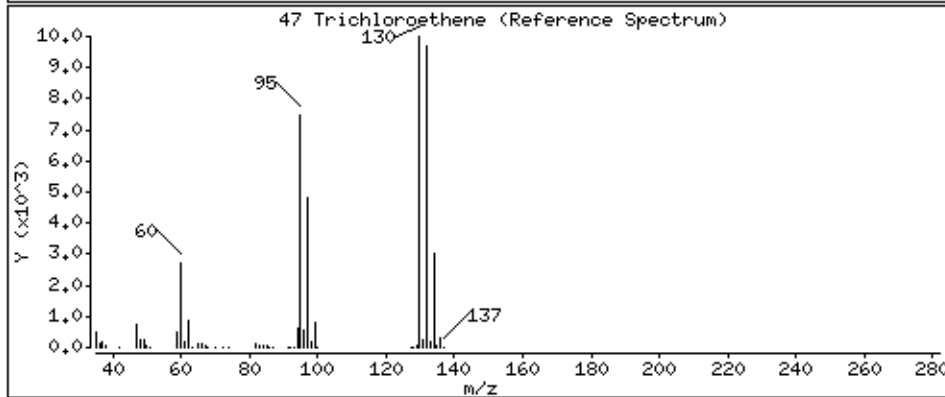
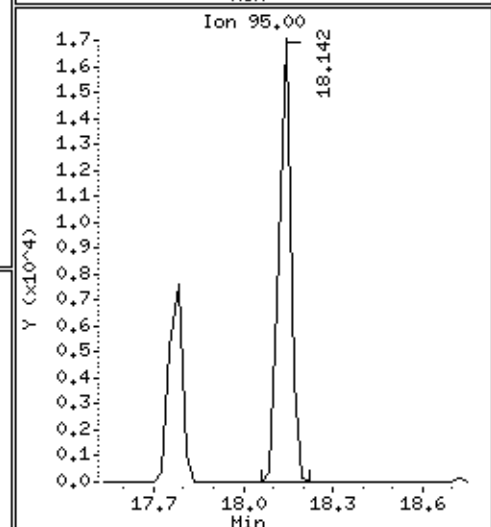
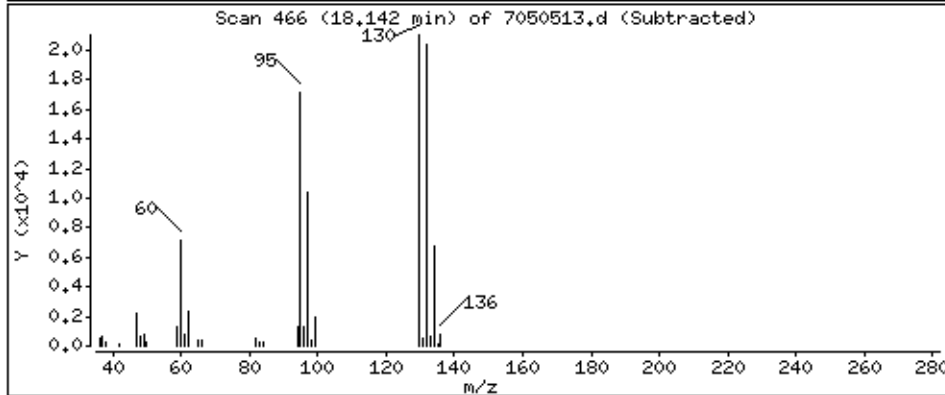
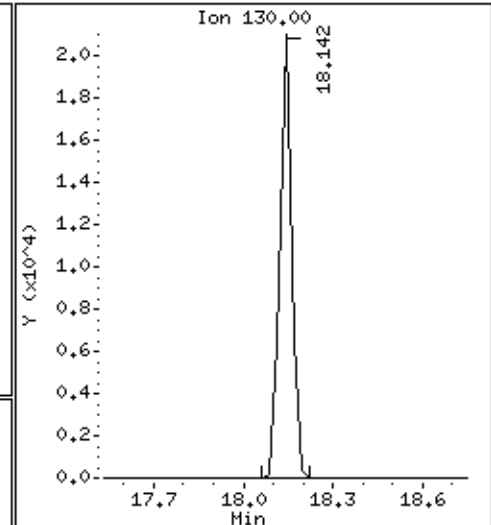
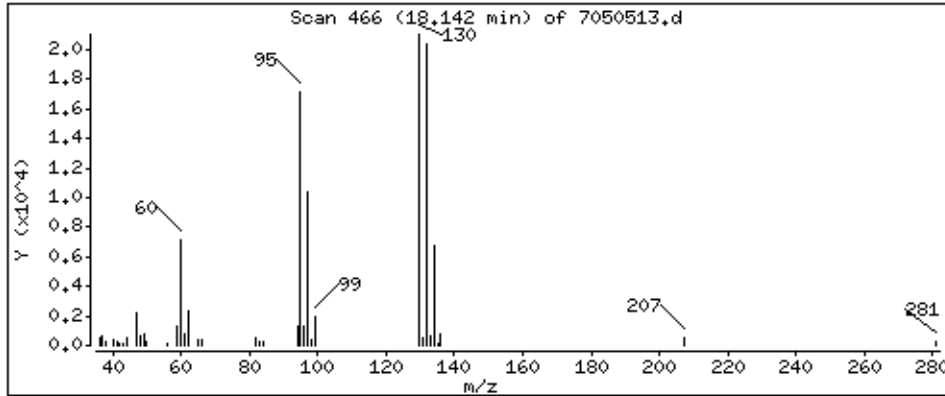
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

47 Trichloroethene

Concentration: 1.230 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

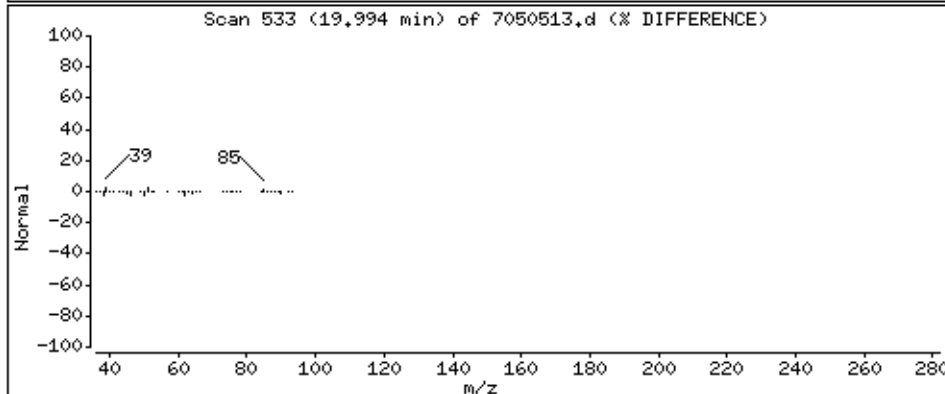
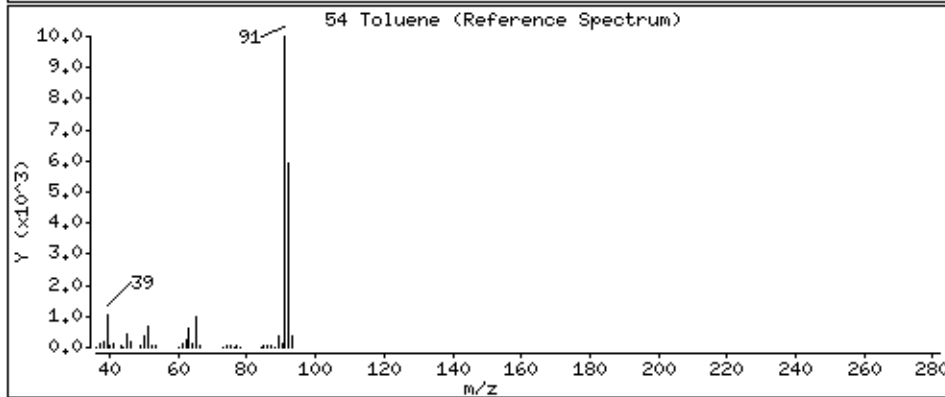
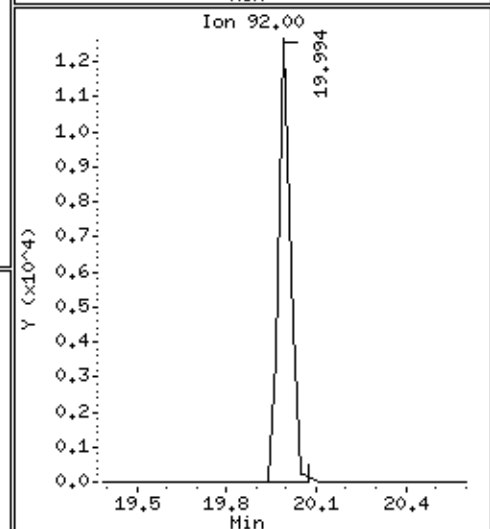
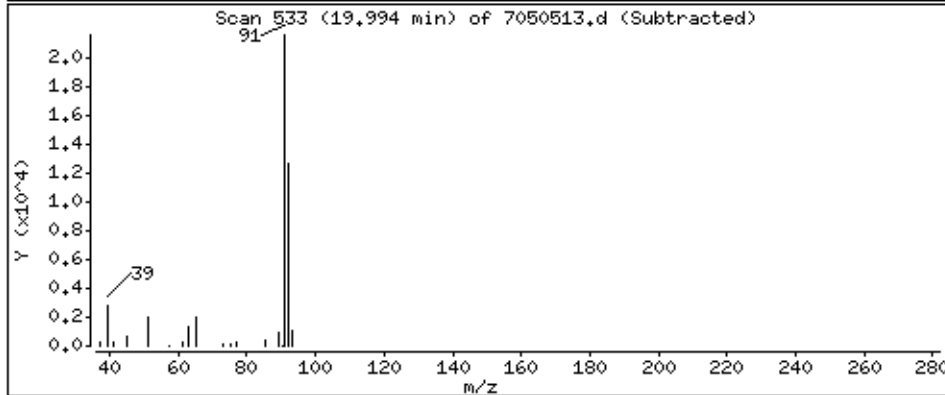
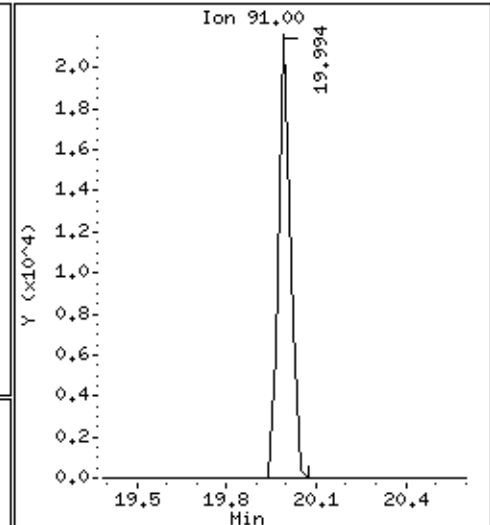
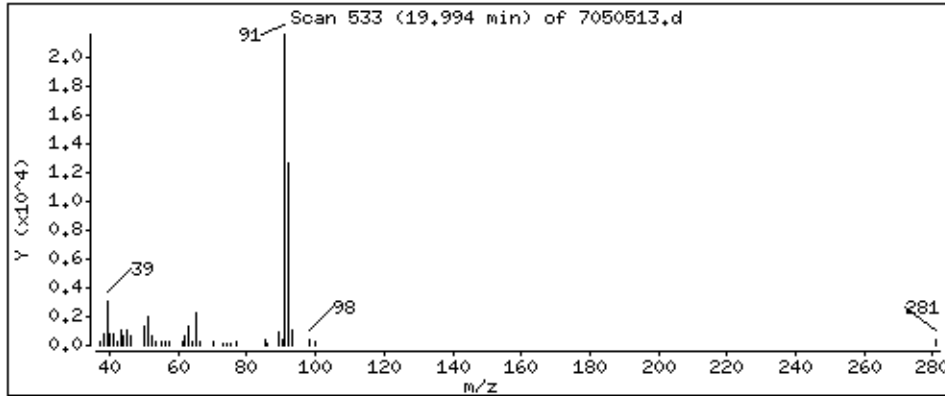
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

54 Toluene

Concentration: 0.5732 PPBV



Date : 05-MAY-2005 23:25

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

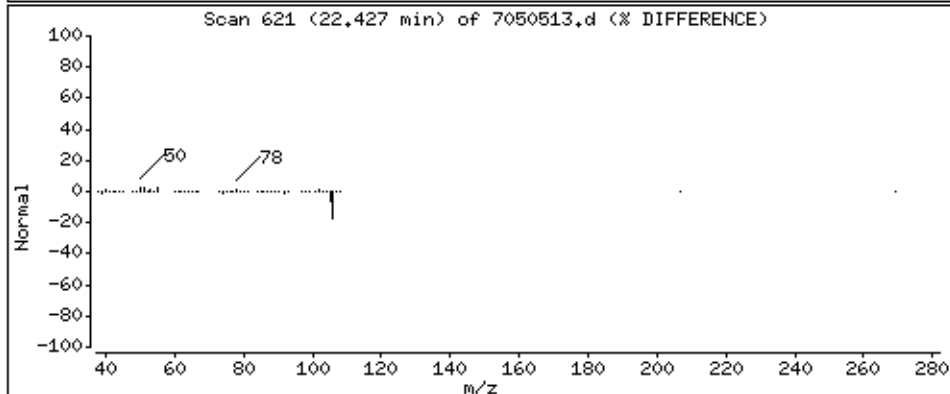
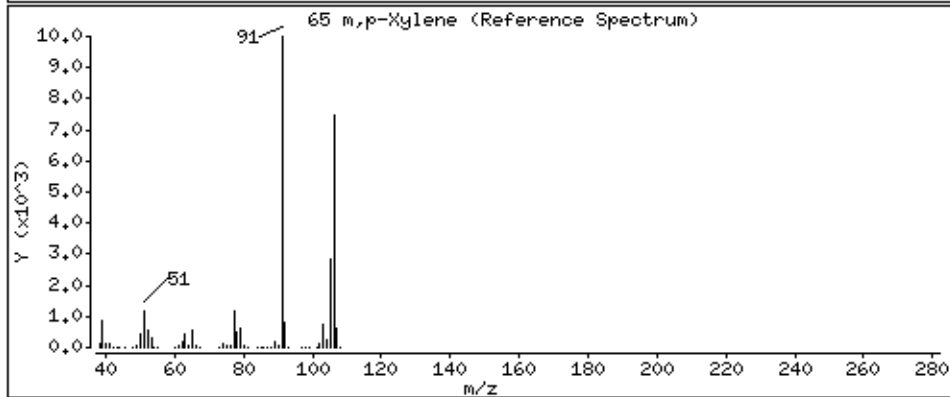
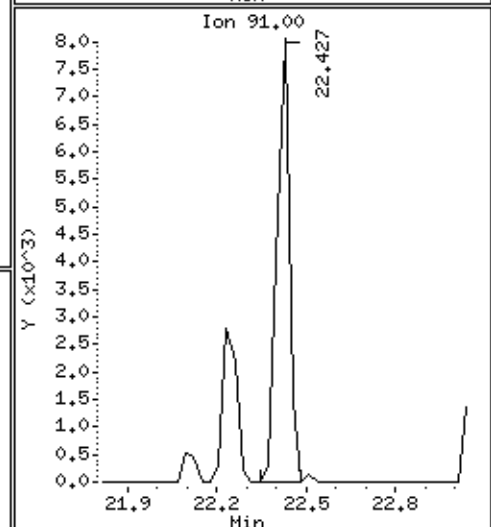
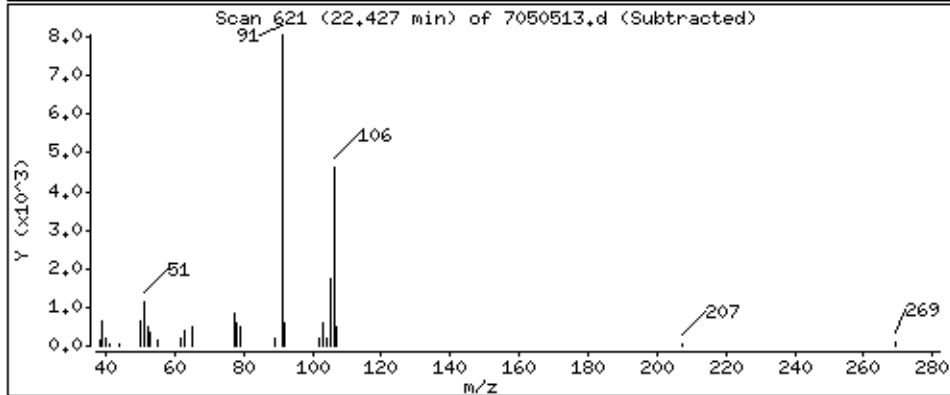
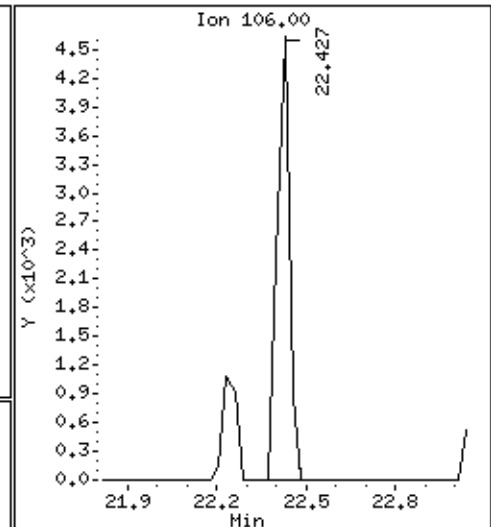
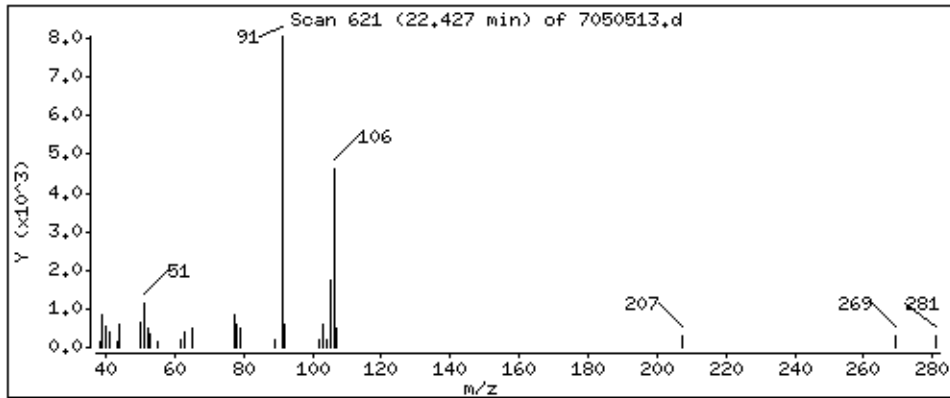
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

65 m,p-Xylene

Concentration: 0.2110 PPBV



AIR TOXICS LTD.

Client Sample ID: IA-A02 Duplicate

Lab ID#: 0504472-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050514	Date of Collection: 4/21/05
Dil. Factor:	1.71	Date of Analysis: 5/6/05 12:16 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.17	0.88	0.84	4.4
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.49	0.35	1.0
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.17	Not Detected	0.45	Not Detected
Freon 11	0.17	0.44	0.96	2.5
Ethanol	0.86	2.1	1.6	4.0
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	1.9	2.0	4.6
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	0.83	0.68	3.3
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
Benzene	0.17	0.30	0.55	0.97
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.17	1.2	0.92	6.3
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.86	Not Detected	3.1	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	0.17	0.54	0.64	2.0
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected

AIR TOXICS LTD.

Client Sample ID: IA-A02 Duplicate

Lab ID#: 0504472-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050514	Date of Collection: 4/21/05
Dil. Factor:	1.71	Date of Analysis: 5/6/05 12:16 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	Not Detected	0.74	Not Detected
m,p-Xylene	0.17	0.18	0.74	0.78
o-Xylene	0.17	Not Detected	0.74	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-05may.b/7050514.d

Lab Smp Id: 0504472-03AA

Inj Date : 06-MAY-2005 00:16

Operator : WW

Inst ID: msd7.i

Smp Info : 500mL #20940

Misc Info : 6.5"Hg->5psi ERM

Comment :

Method : /chem/msd7.i/7-05may.b/t14l501a.m

Meth Date : 09-May-2005 14:50 Isoohoo Quant Type: ISTD

Cal Date : 01-MAY-2005 17:45 Cal File: 7050113.d

Als bottle: 1

Dil Factor: 1.71000

Integrator: HP RTE

Compound Sublist: AT.sub

Target Version: 3.50

Sample Matrix: AIR

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
1	1
2	2
3	3
4	4
5	5
6	6
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98	98
99	99
100	100

RT	EXP	RT (REL	RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET	RANGE	RATIO
						ON-COL	FINAL			
==	=====	=====	=====	=====	=====	(PPBV)	(PPBV)	=====	=====	=====
* 34	Bromochloromethane						CAS #:	74-97-5		
16.317	16.317	(1.000)		130	242315	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)		128	188007			47.67-	107.67	77.59
16.317	16.317	(1.000)		49	449826			141.21-	201.21	185.64

* 46	1,4-Difluorobenzene						CAS #:	540-36-3		
17.782	17.782	(1.000)		114	1061391	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)		88	133217			0.00-	42.60	12.55

* 62	Chlorobenzene-d5						CAS #:	3114-55-4		
22.123	22.123	(1.000)		117	955066	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)		82	425488			13.88-	73.88	44.55

\$ 41	1,2-Dichloroethane-d4						CAS #:	17060-07-0		
17.201	17.202	(1.054)		65	230917	9.93838	9.938	80.00-	120.00	100.00
17.201	17.202	(1.054)		67	129128			39.84-	99.84	55.92

\$ 53	Toluene-d8						CAS #:	2037-26-5		
19.883	19.884	(1.118)		98	976122	10.0153	10.015	80.00-	120.00	100.00
19.883	19.884	(1.118)		70	82117			0.00-	38.58	8.41

CONCENTRATIONS										
					ON-COL	FINAL				
RT	EXP RT	RT (REL	RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====		=====	=====	=====		=====		=====
\$ 53 Toluene-d8 (continued)										
19.883	19.884	(1.118)		100	668806			38.13-	98.13	68.52

\$ 71 Bromofluorobenzene							CAS #:	460-00-4		
23.948	23.948	(1.082)		174	575027	10.0033	10.003	80.00-	120.00	100.00
23.948	23.948	(1.082)		95	593842			73.19-	133.19	103.27
23.948	23.948	(1.082)		176	552252			66.66-	126.66	96.04

2 Dichlorodifluoromethane/Fr12							CAS #:	75-71-8		
5.921	5.921	(0.363)		85	37821	0.51652	0.8832	80.00-	120.00	100.00
5.948	5.948	(0.365)		87	11643			1.94-	61.94	30.79

4 Chloromethane							CAS #:	74-87-3		
7.303	7.303	(0.448)		50	18894	0.28466	0.4868	80.00-	120.00	100.00
7.303	7.303	(0.448)		52	6095			1.37-	61.37	32.26

12 Trichlorofluoromethane/Fr11							CAS #:	75-69-4		
11.036	11.036	(0.676)		101	15903	0.25957	0.4439	80.00-	120.00	100.00
11.036	11.036	(0.676)		103	10695			34.23-	94.23	67.25

14 Ethanol							CAS #:	64-17-5		
12.031	12.031	(0.737)		45	26998	1.24125	2.122	80.00-	120.00	100.00
12.031	12.031	(0.737)		43	7259			0.00-	47.77	26.89
12.031	12.031	(0.737)		46	11100			10.78-	70.78	41.11

18 Acetone							CAS #:	67-64-1		
12.833	12.833	(0.786)		43	95137	1.13540	1.942	80.00-	120.00	100.00
12.833	12.833	(0.786)		58	27670			1.60-	61.60	29.08

31 cis-1,2-Dichloroethene							CAS #:	156-59-2		
15.930	15.930	(0.976)		98	14186	0.48485	0.8291	80.00-	120.00	100.00
15.930	15.930	(0.976)		61	32028			189.88-	249.88	225.77
15.930	15.930	(0.976)		96	22082			129.12-	189.12	155.67

42 Benzene							CAS #:	71-43-2		
17.201	17.202	(0.967)		78	23282	0.17745	0.3034	80.00-	120.00	100.00
17.201	17.202	(0.967)		77	5585			0.00-	51.60	23.99

47 Trichloroethene							CAS #:	79-01-6		
18.142	18.142	(1.020)		130	50748	0.69085	1.181	80.00-	120.00	100.00
18.142	18.142	(1.020)		95	40777			47.95-	107.95	80.35
18.142	18.142	(1.020)		97	25412			20.27-	80.27	50.08

54 Toluene							CAS #:	108-88-3		
19.994	19.994	(1.124)		91	50966	0.31407	0.5371	80.00-	120.00	100.00
19.994	19.994	(1.124)		92	29903			29.68-	89.68	58.67

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
					ON-COL (PPBV)	FINAL (PPBV)		
65	m,p-Xylene					CAS #: 108-38-3		
22.427	22.427	(1.014)	106	10654	0.10565	0.1807	80.00- 120.00	100.00
22.427	22.427	(1.014)	91	19055			116.47- 176.47	178.85

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050514.d
Lab Smp Id: 0504472-03AA
Analysis Type: VOA
Quant Type: ISTD
Operator: WW

Calibration Date: 05-MAY-2005
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-05may.b/t141501a.m
Misc Info: 6.5"Hg->5psi ERM

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	273711	164227	383195	242315	-11.47
46 1,4-Difluorobenze	1190742	714445	1667039	1061391	-10.86
62 Chlorobenzene-d5	1102533	661520	1543546	955066	-13.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0504472-03AA	
Level: LOW	Operator: WW
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 6.5"Hg->5psi	ERM

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.938	99.38	70-130
\$ 53 Toluene-d8	10.000	10.015	100.15	70-130
\$ 71 Bromofluorobenzene	10.000	10.003	100.03	70-130

Date : 06-MAY-2005 00:16

Client ID:

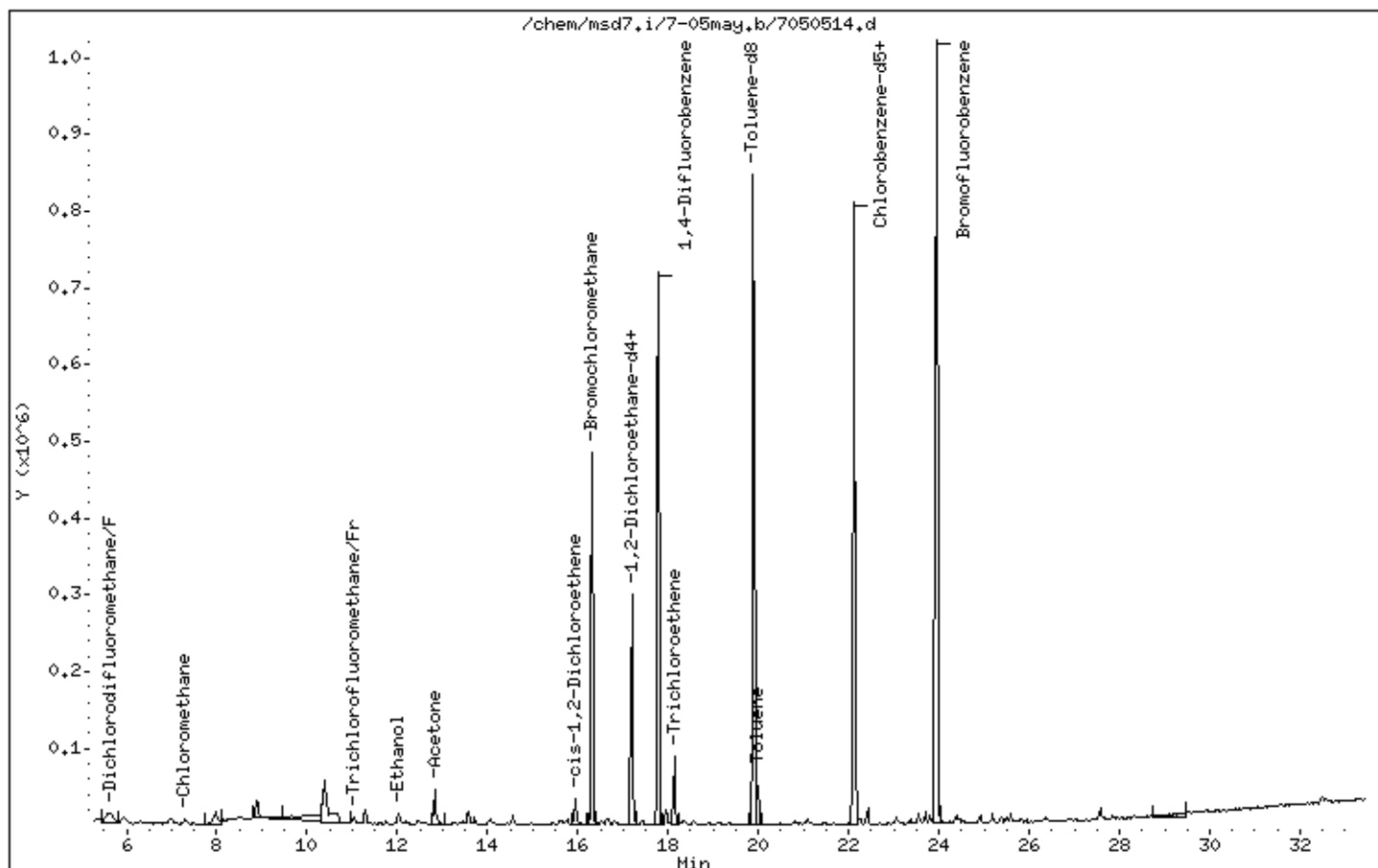
Instrument: msd7.i

Sample Info: 500mL #20940

Operator: WM

Column phase: RTX-624

Column diameter: 0.32



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

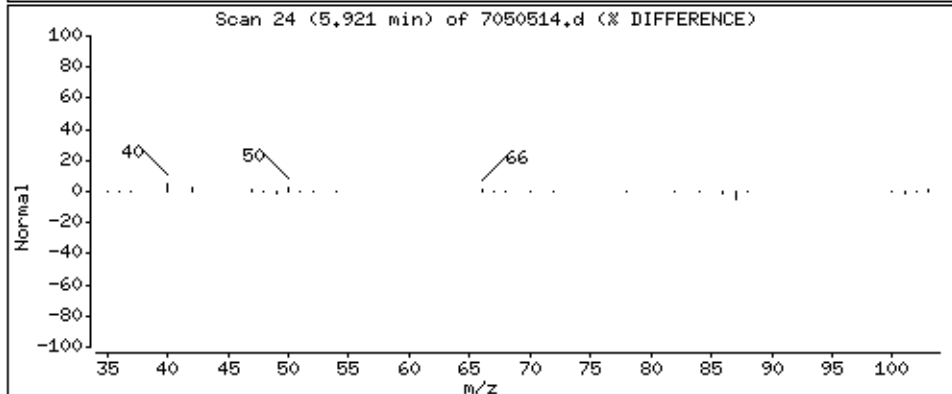
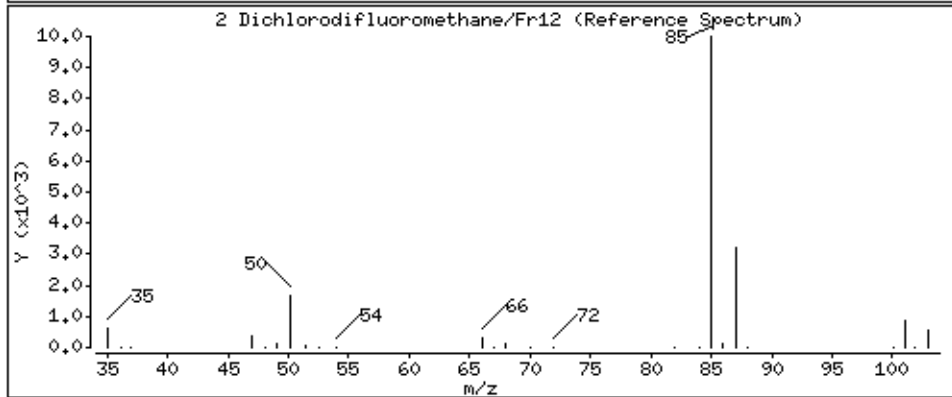
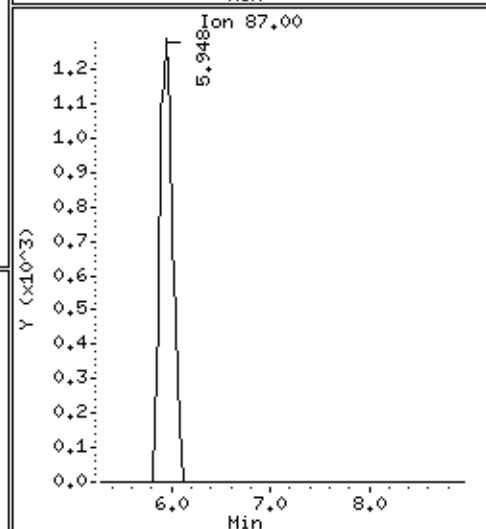
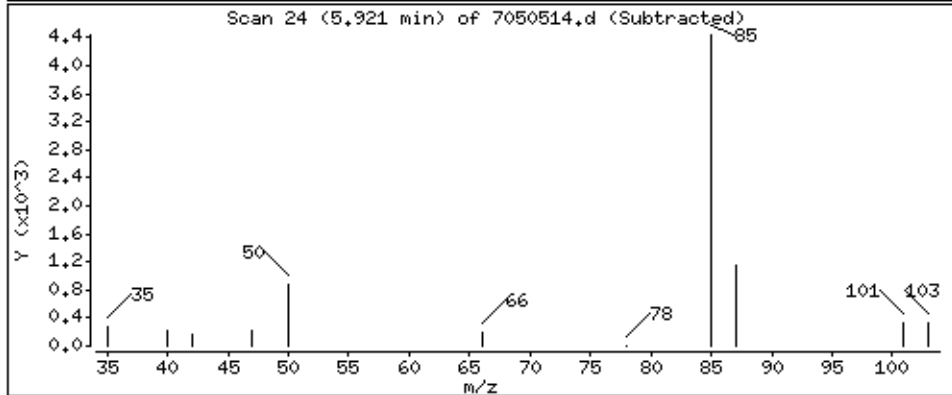
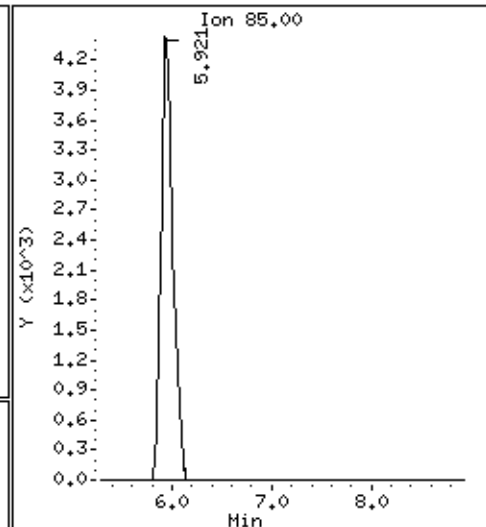
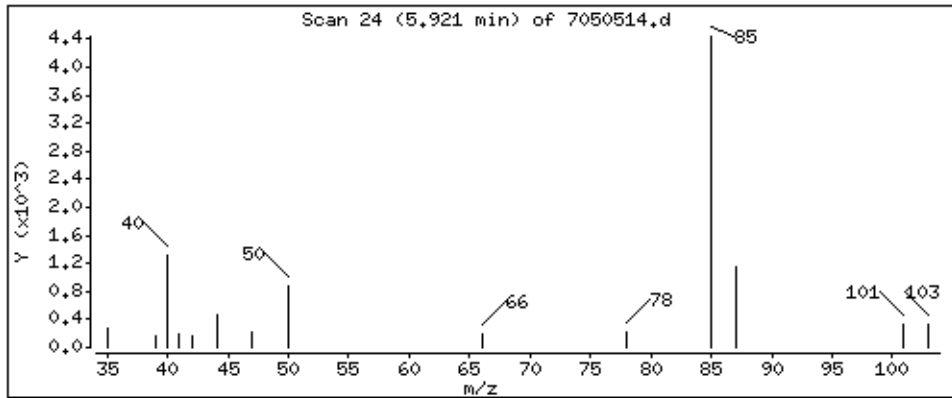
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

2 Dichlorodifluoromethane/Fr12

Concentration: 0.8832 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

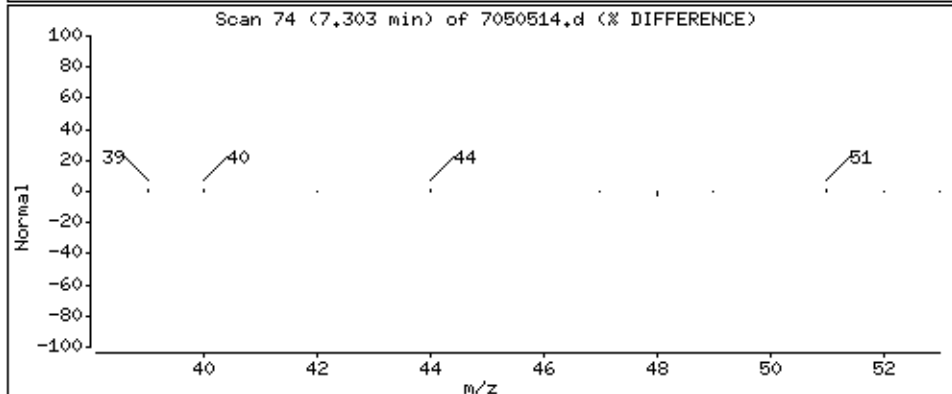
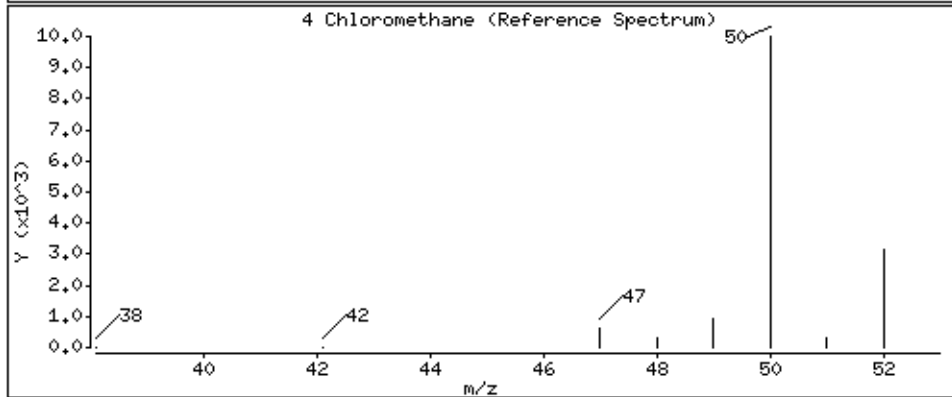
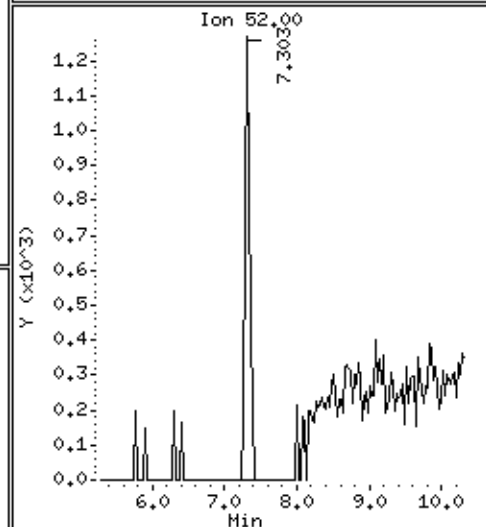
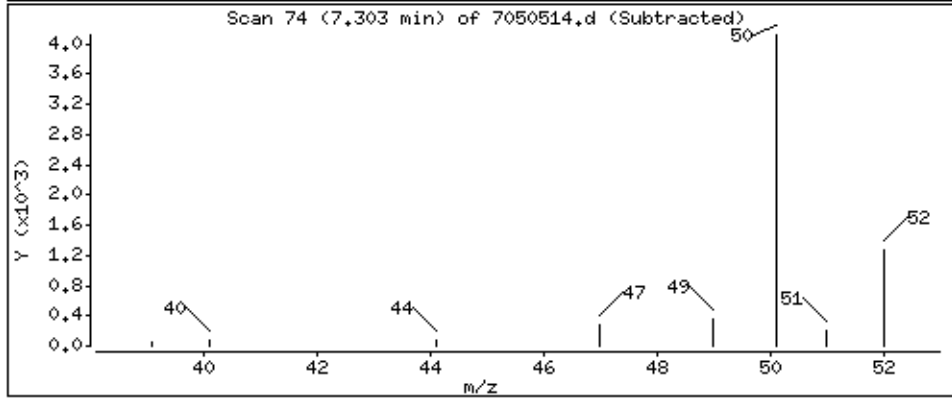
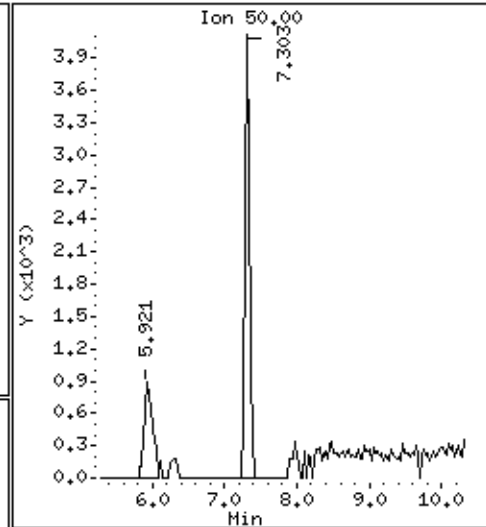
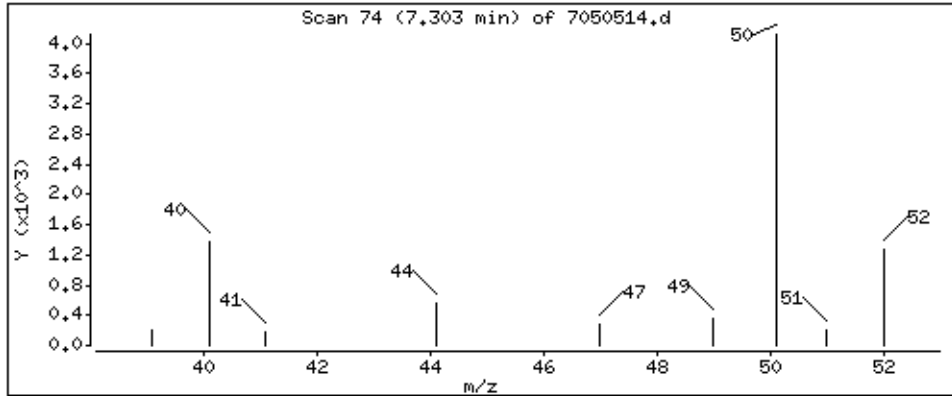
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

4 Chloromethane

Concentration: 0.4868 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

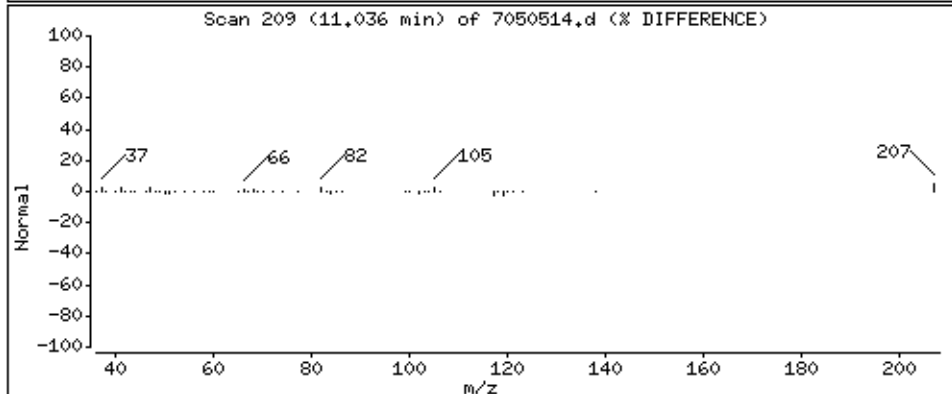
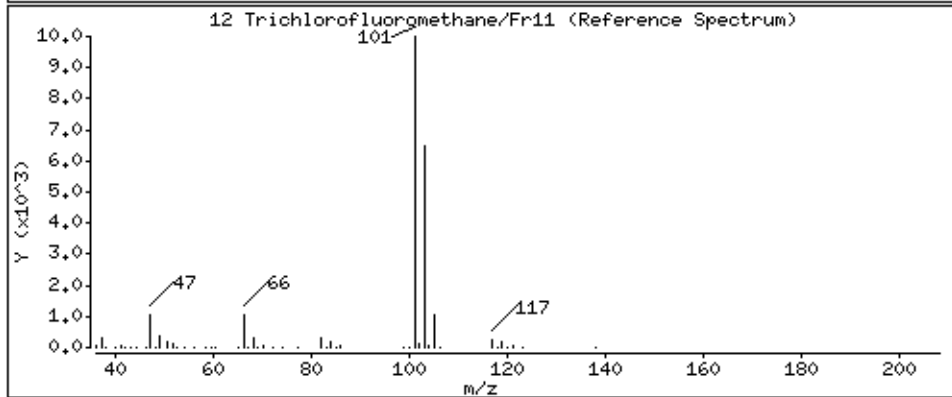
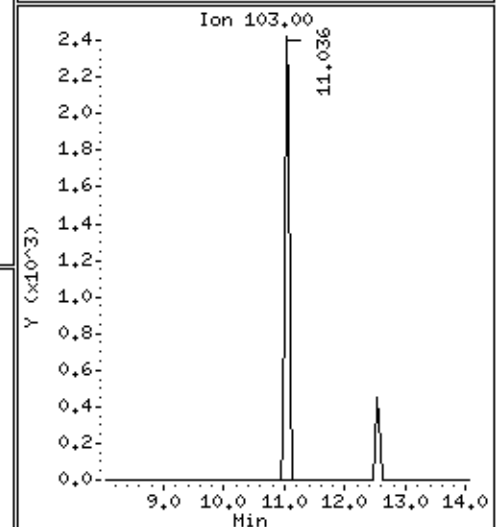
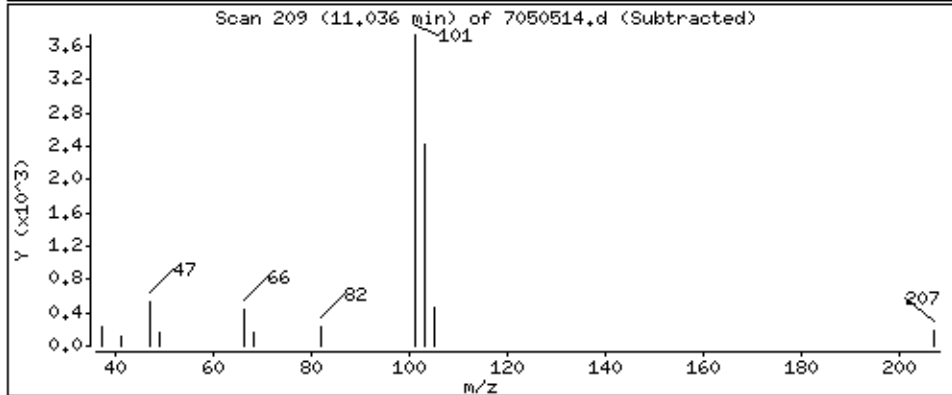
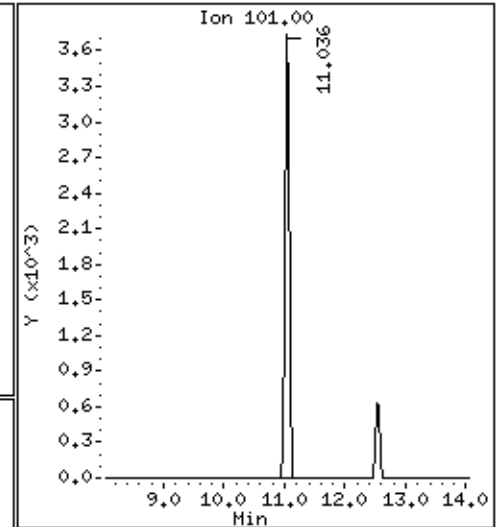
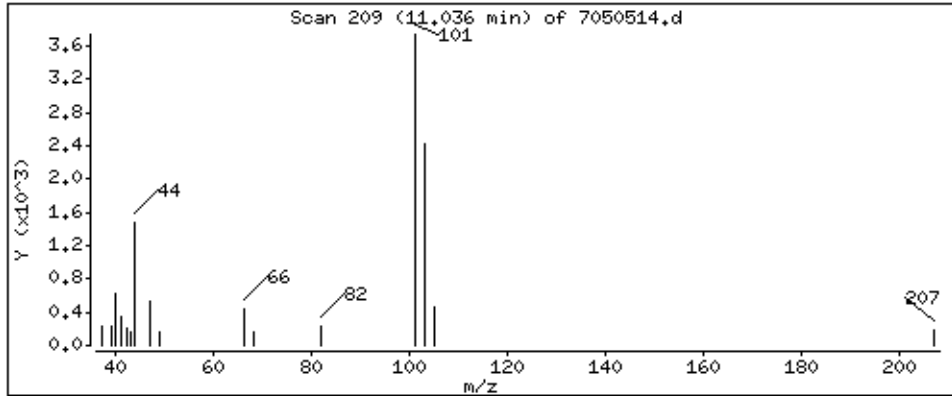
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

12 Trichlorofluoromethane/Fr11

Concentration: 0.4439 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

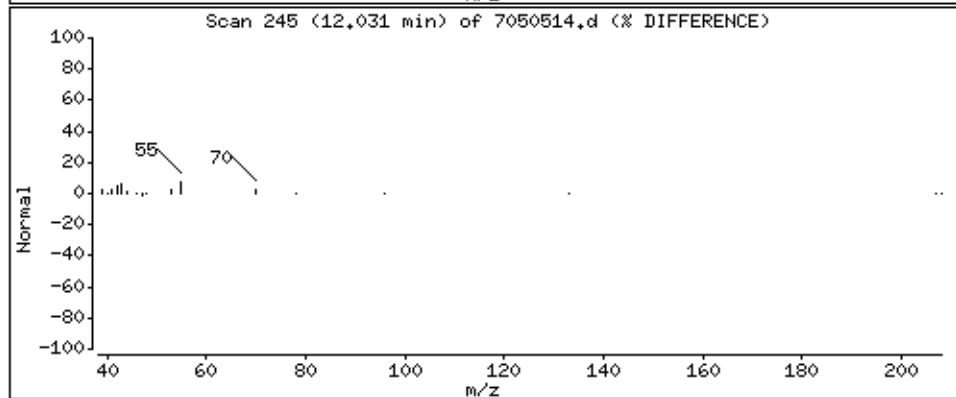
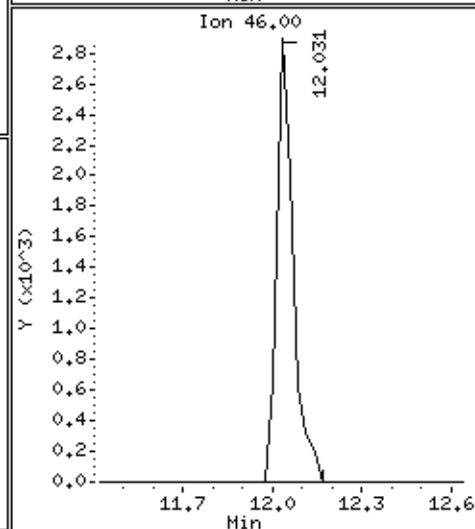
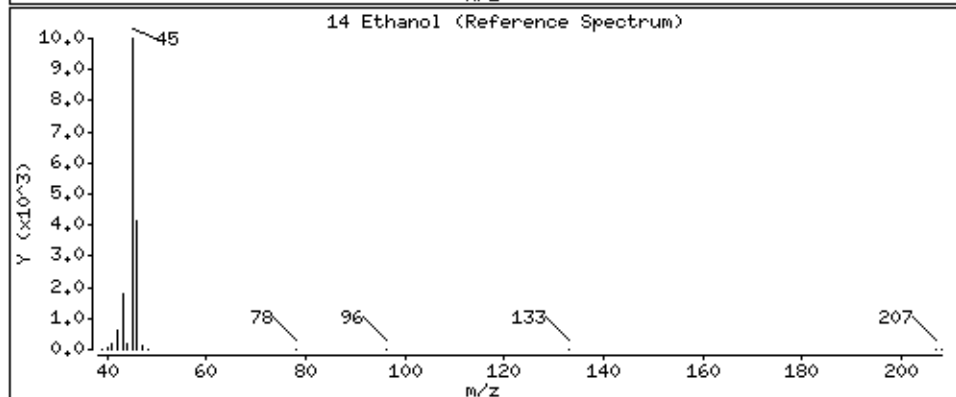
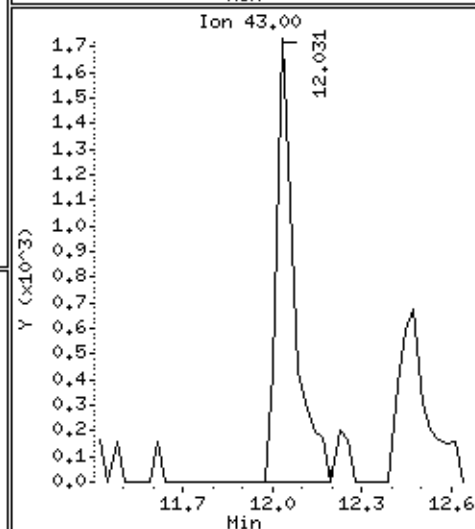
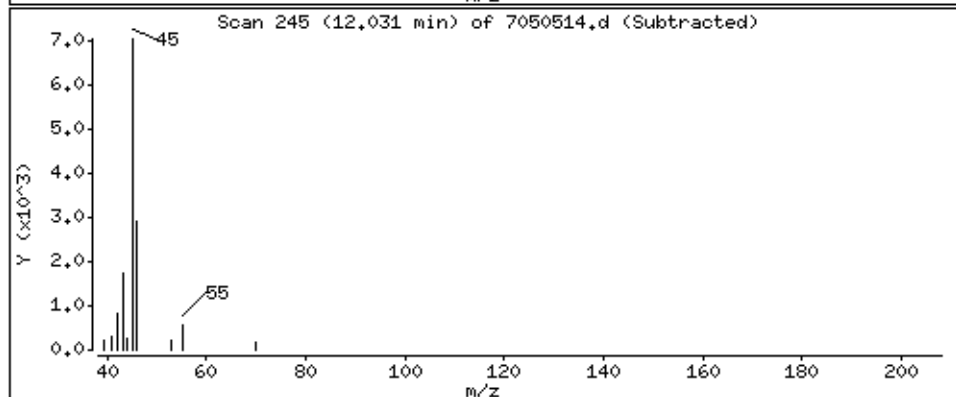
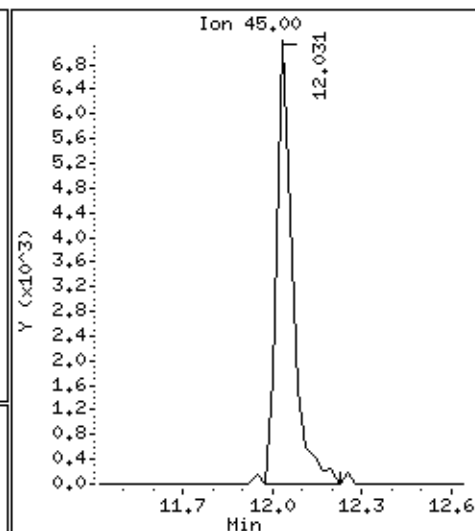
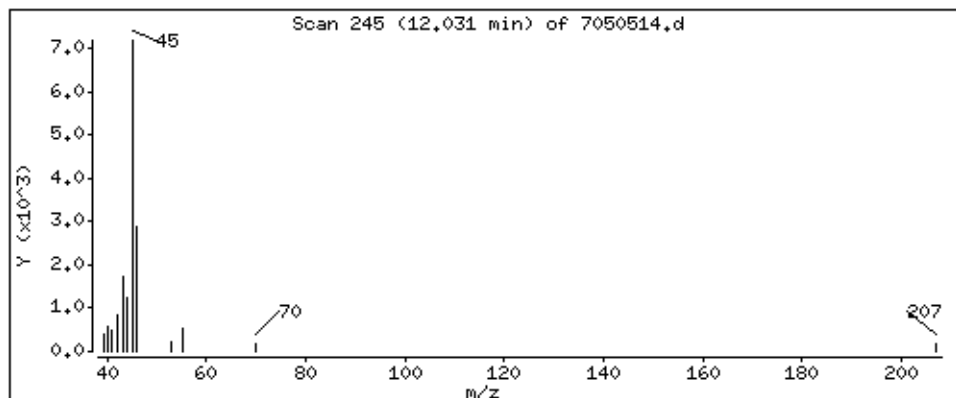
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

14 Ethanol

Concentration: 2.122 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

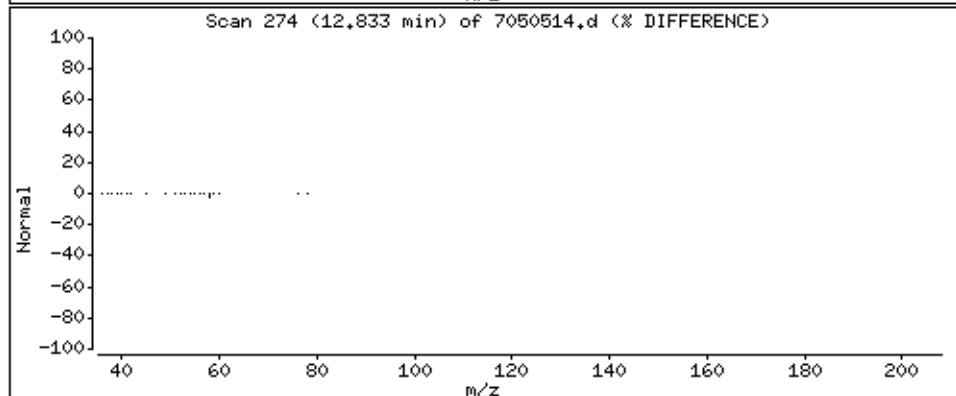
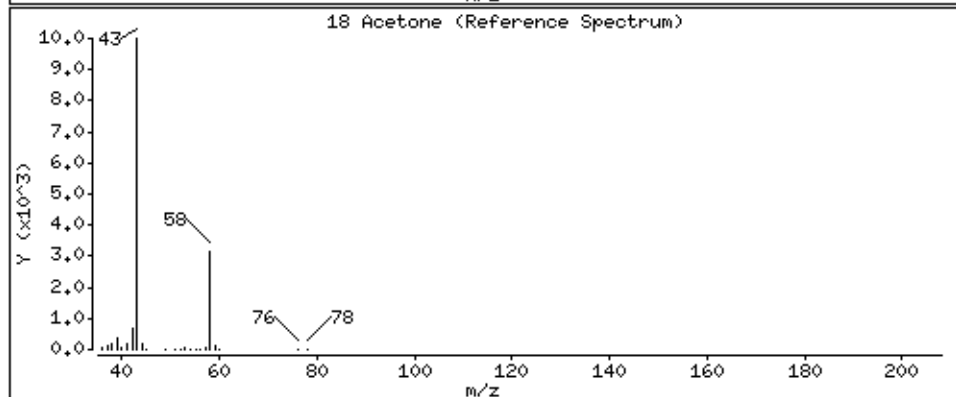
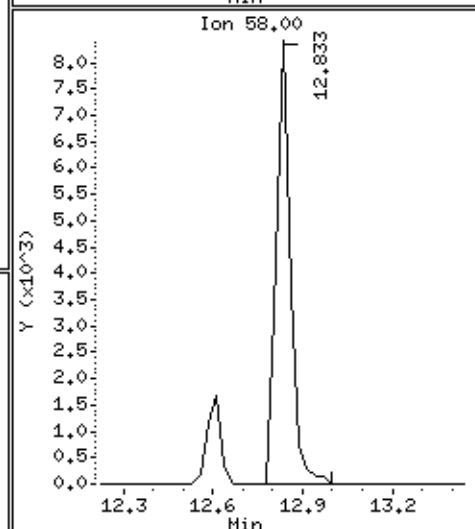
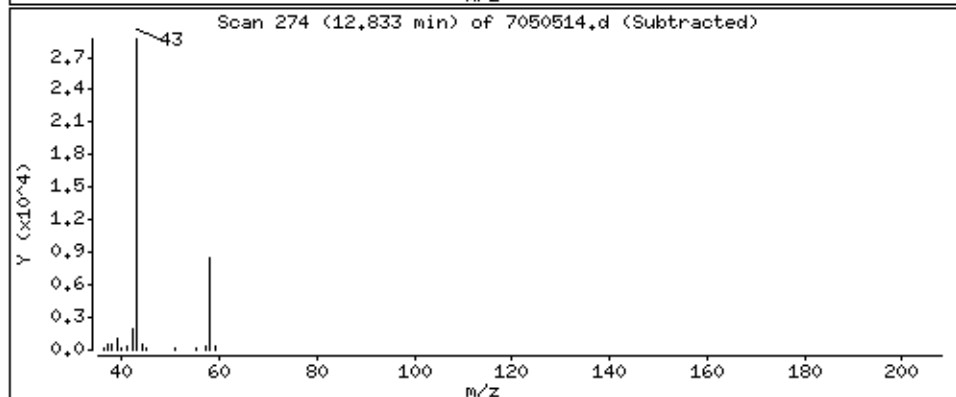
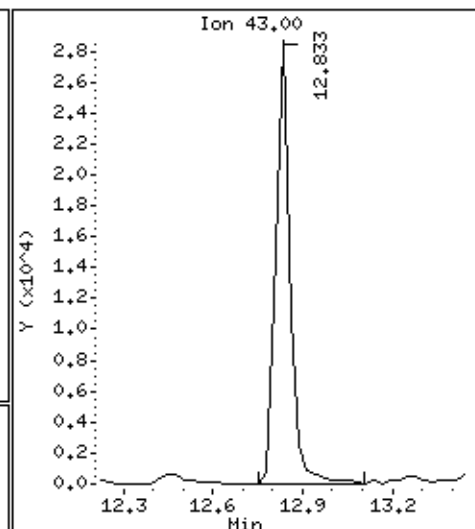
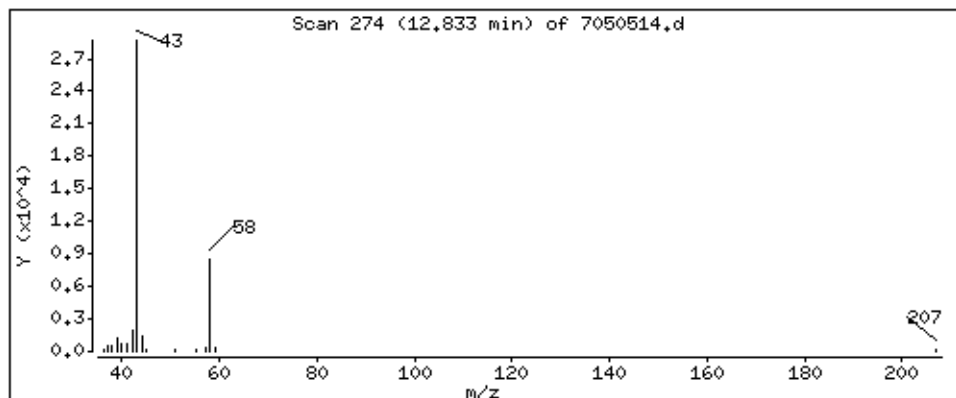
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

18 Acetone

Concentration: 1.942 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

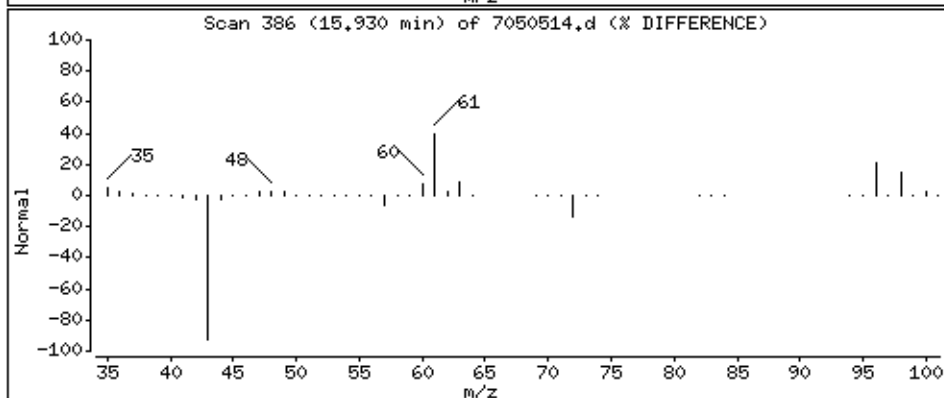
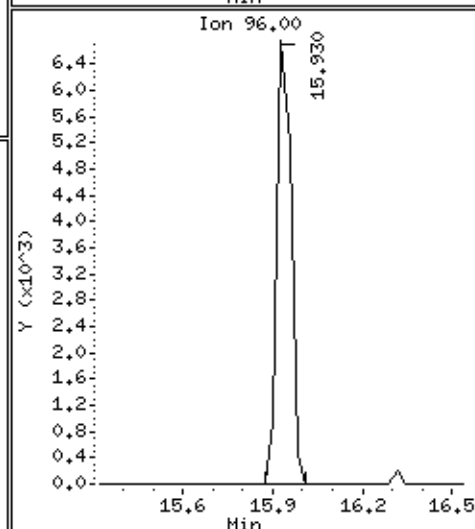
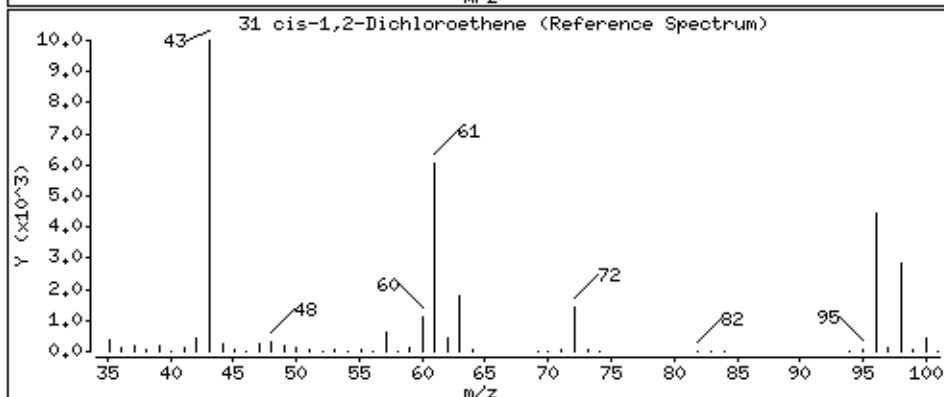
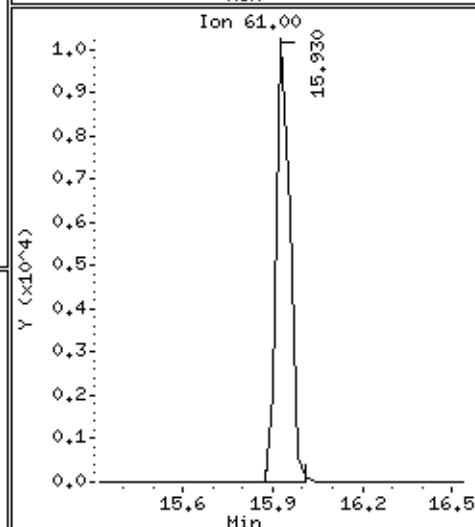
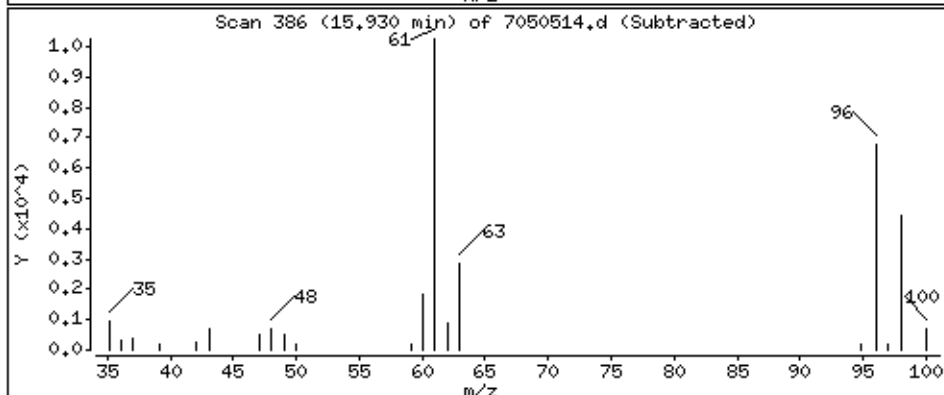
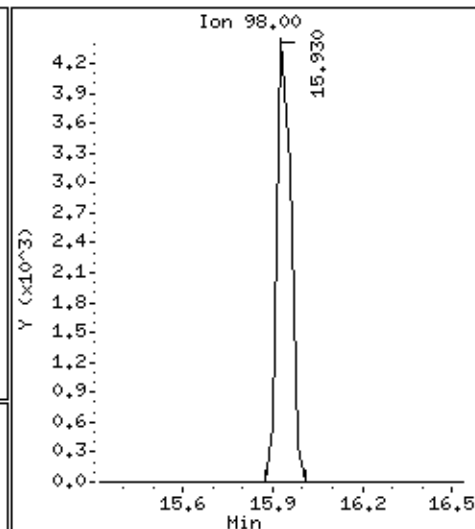
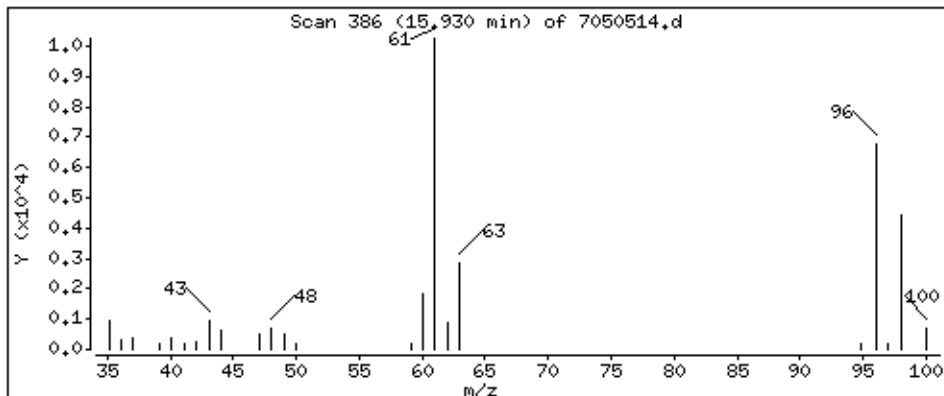
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

31 cis-1,2-Dichloroethene

Concentration: 0.8291 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

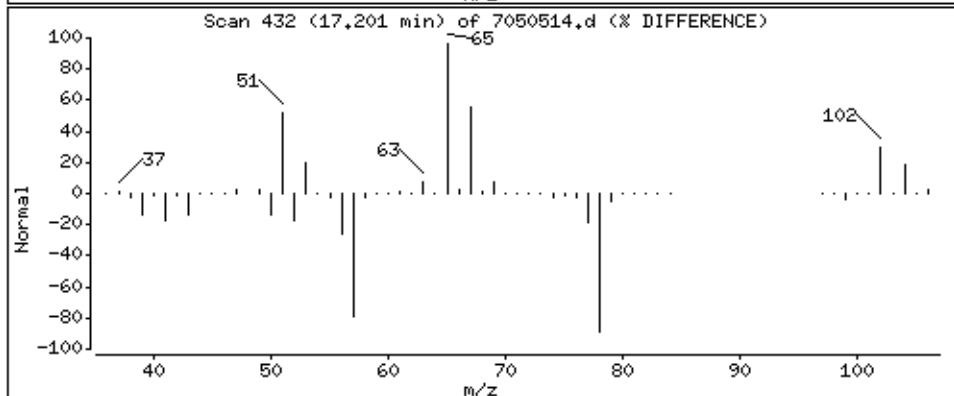
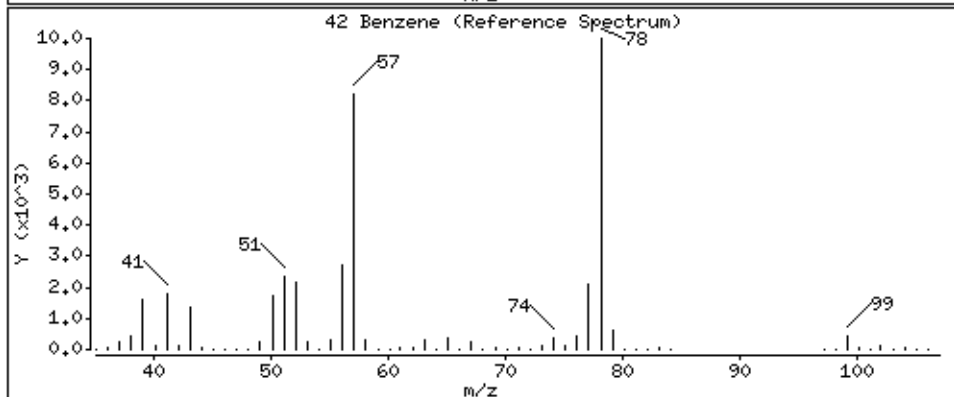
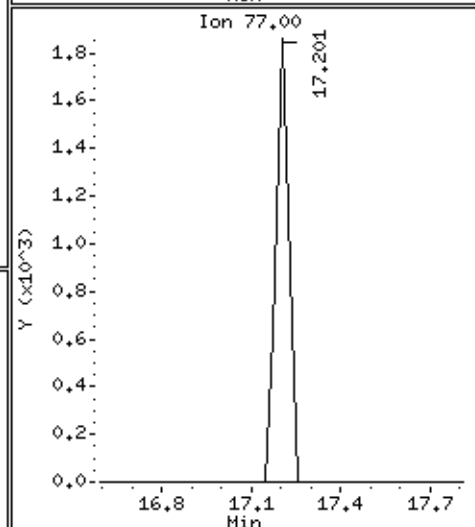
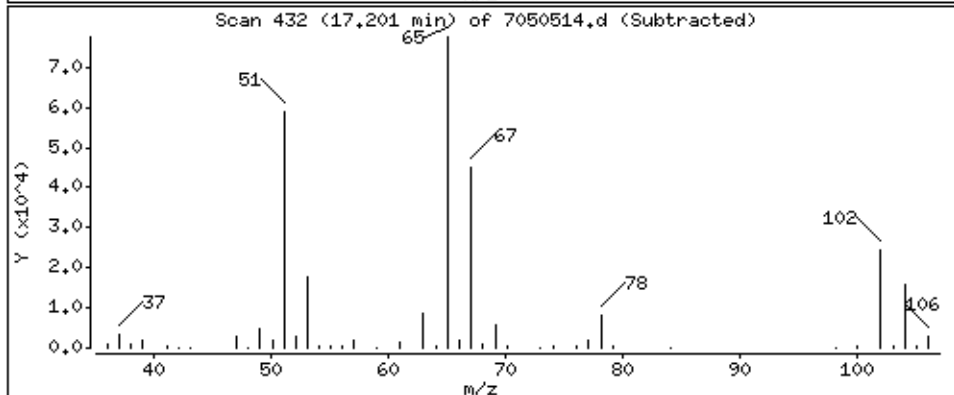
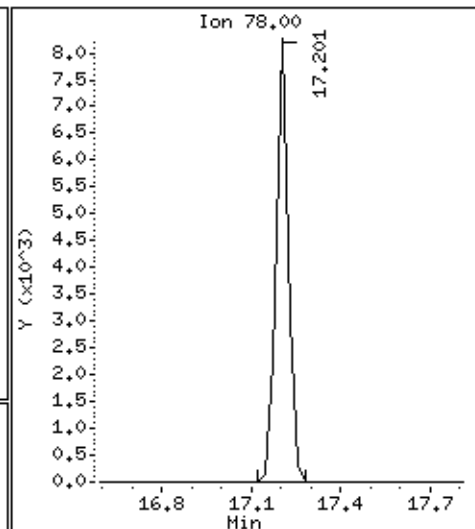
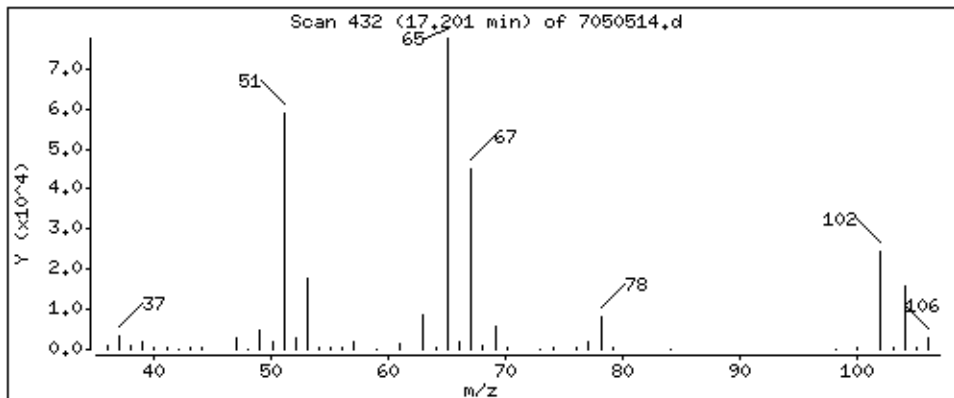
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

42 Benzene

Concentration: 0.3034 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

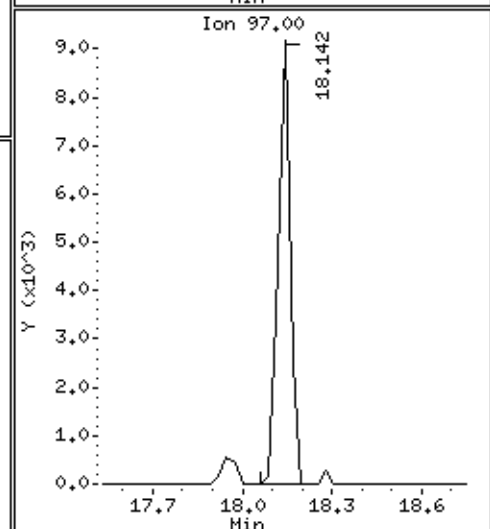
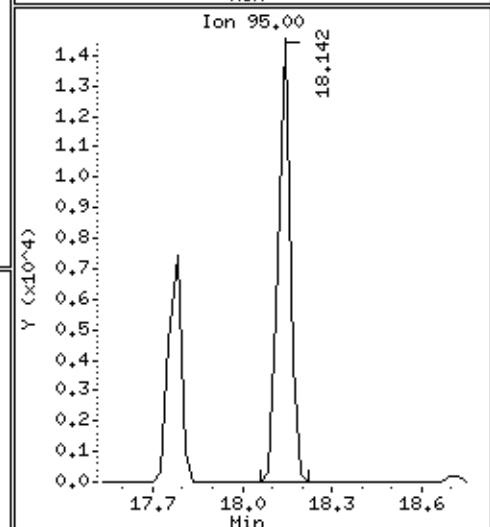
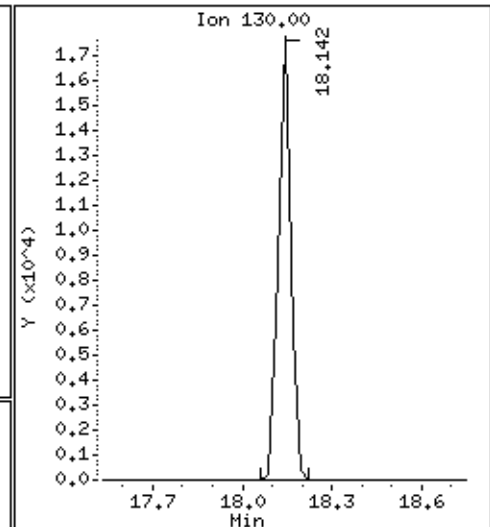
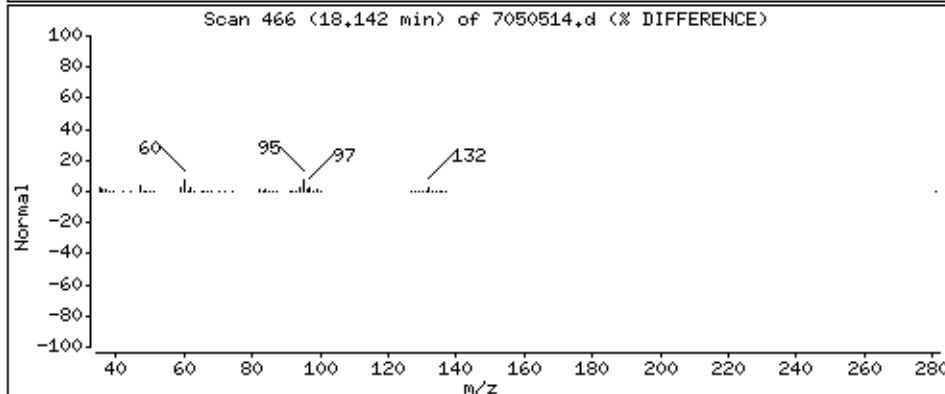
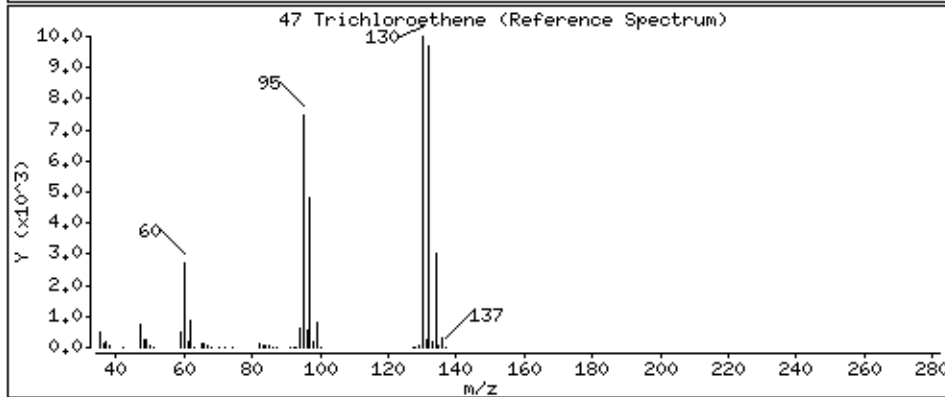
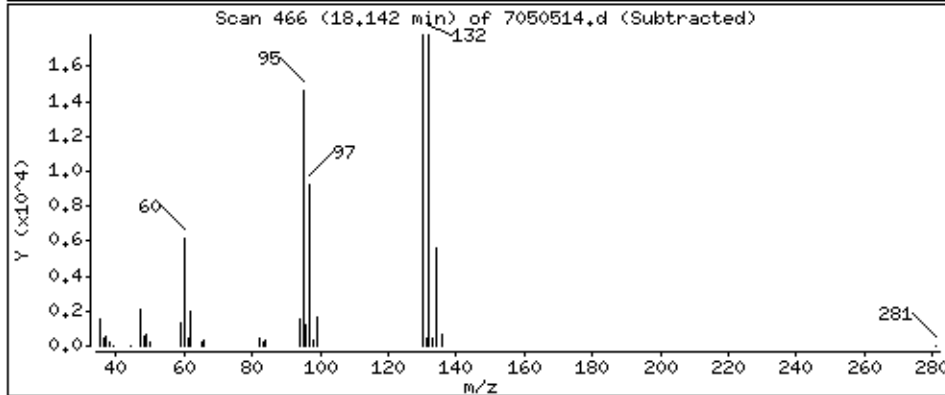
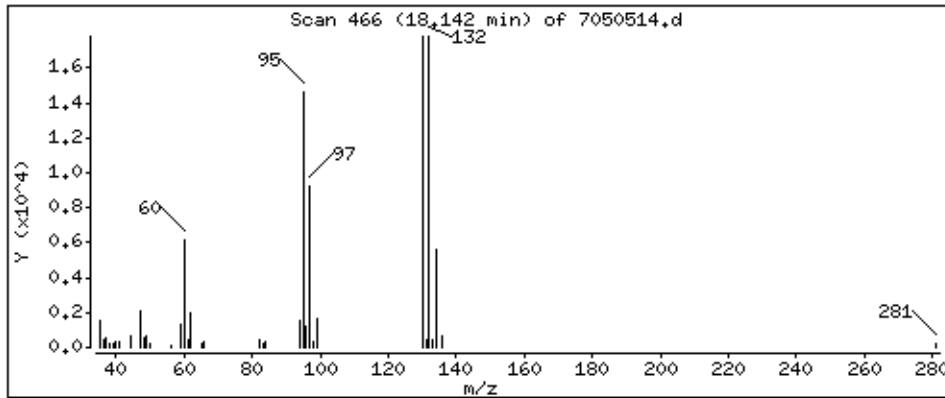
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

47 Trichloroethene

Concentration: 1.181 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

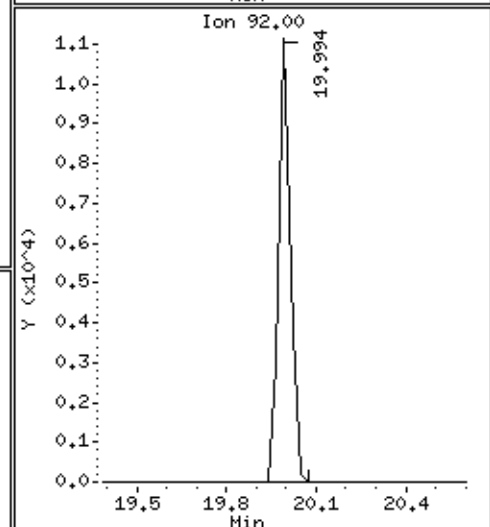
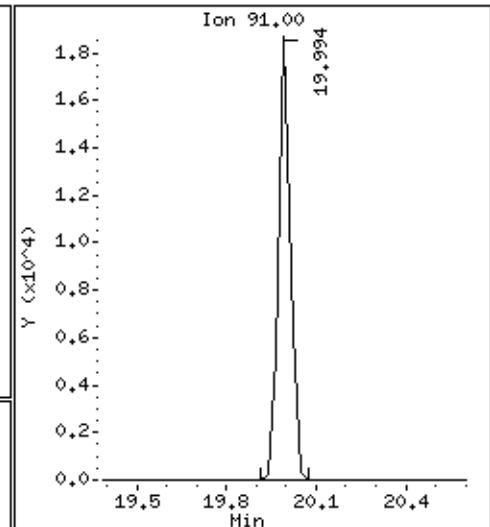
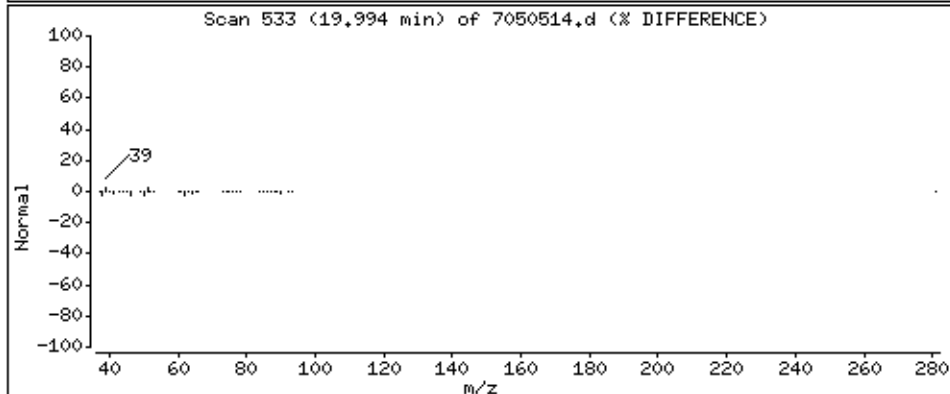
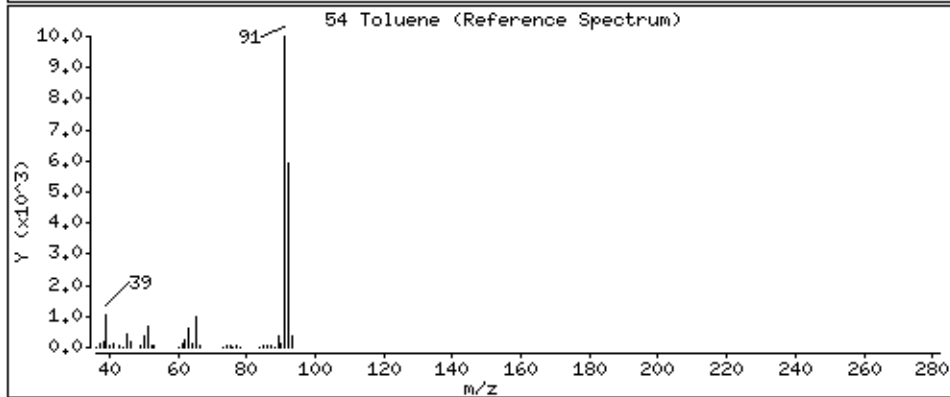
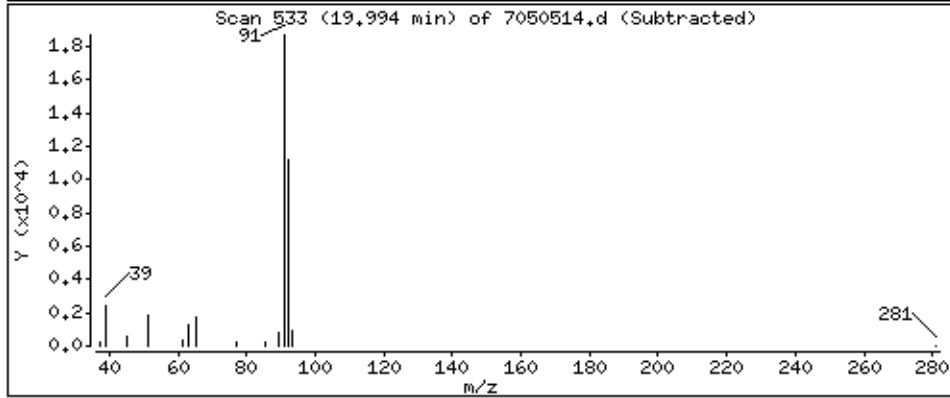
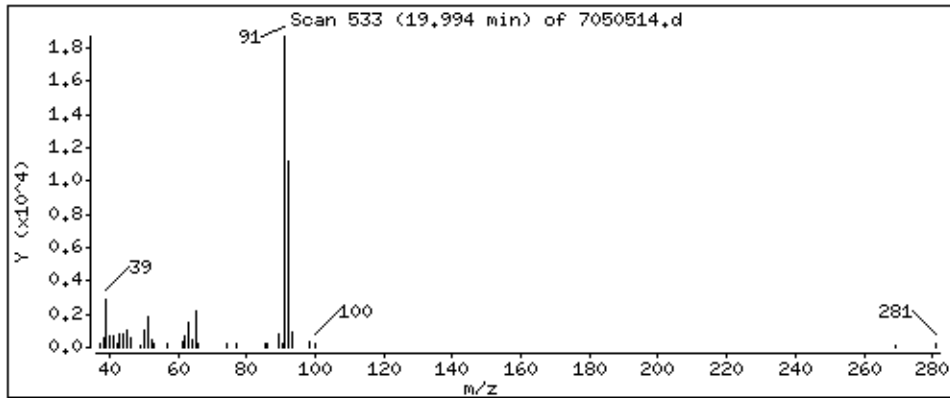
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

54 Toluene

Concentration: 0.5371 PPBV



Date : 06-MAY-2005 00:16

Client ID:

Instrument: msd7.i

Sample Info: 500mL #20940

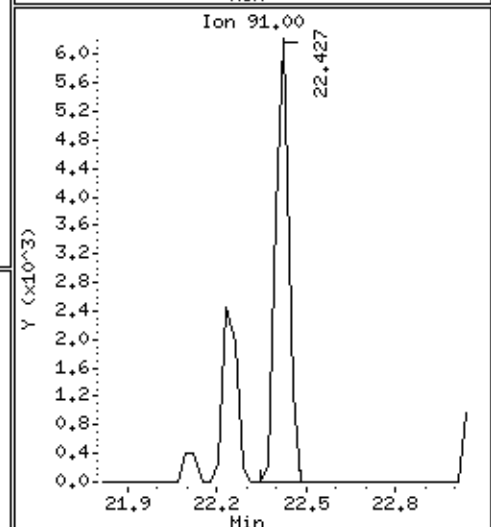
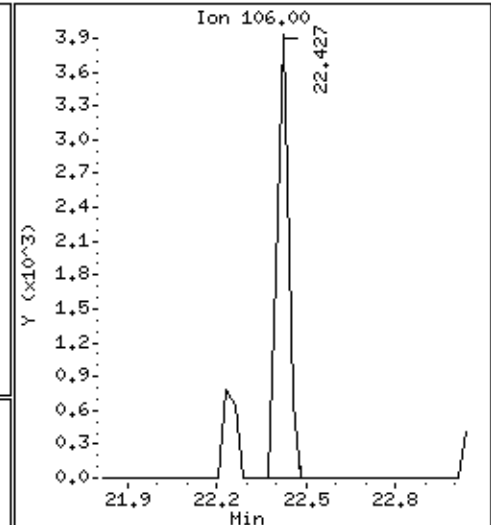
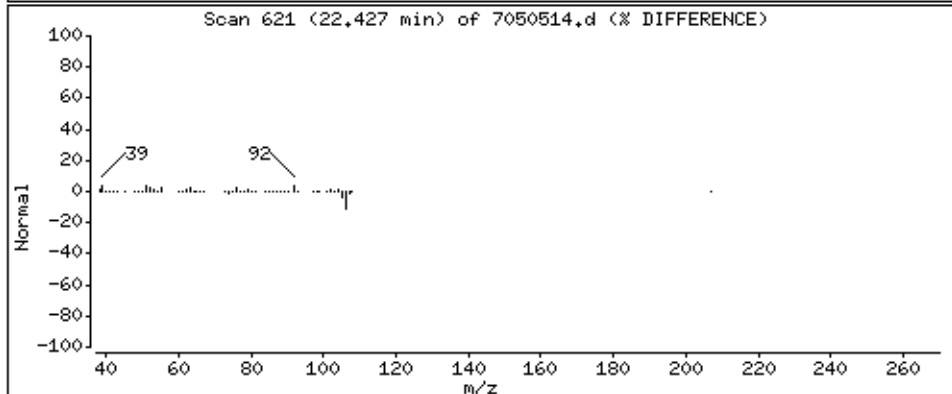
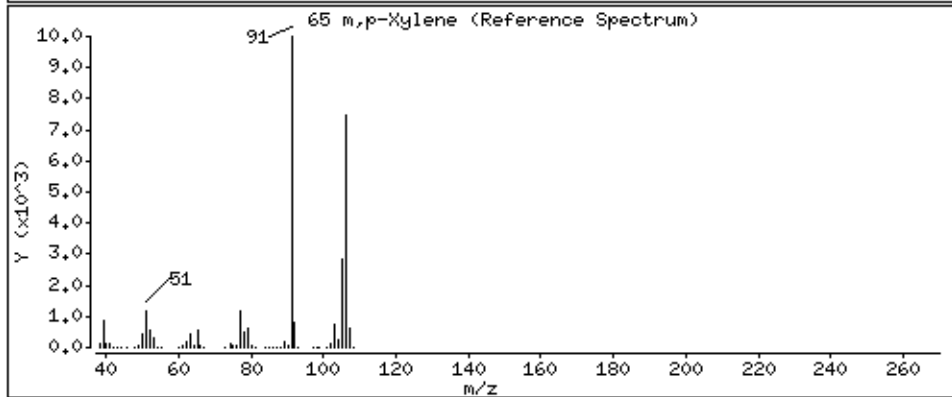
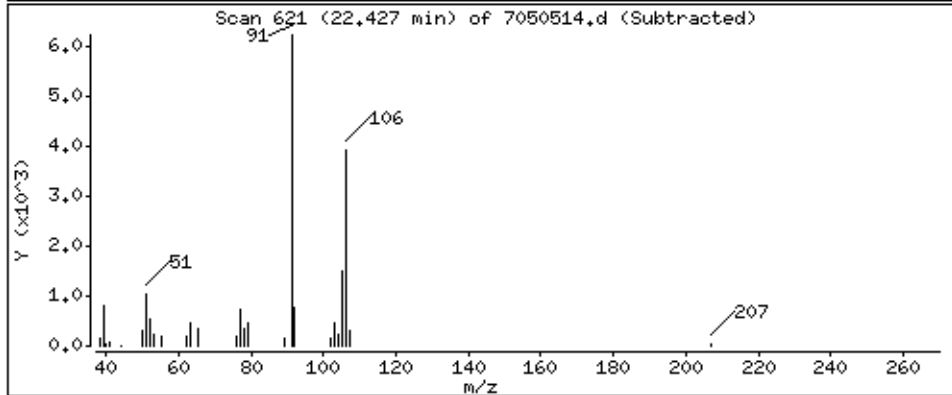
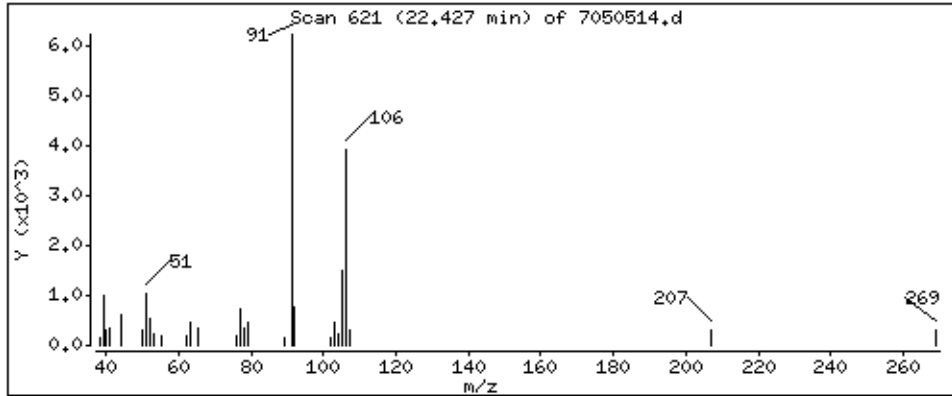
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

65 m,p-Xylene

Concentration: 0.1807 PPBV



AIR TOXICS LTD.

Client Sample ID: SV-A02

Lab ID#: 0504472-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050519	Date of Collection: 4/21/05
Dil. Factor:	13.2	Date of Analysis: 5/6/05 05:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.3	Not Detected	6.5	Not Detected
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	1.3	Not Detected	2.7	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	6.6	Not Detected	15	Not Detected
Bromomethane	1.3	Not Detected	5.1	Not Detected
Chloroethane	1.3	Not Detected	3.5	Not Detected
Freon 11	1.3	Not Detected	7.4	Not Detected
Ethanol	6.6	Not Detected	12	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	6.6	Not Detected	16	Not Detected
2-Propanol	6.6	Not Detected	16	Not Detected
Carbon Disulfide	6.6	Not Detected	20	Not Detected
Methylene Chloride	2.6	Not Detected	9.2	Not Detected
Methyl tert-butyl ether	6.6	Not Detected	24	Not Detected
trans-1,2-Dichloroethene	6.6	Not Detected	26	Not Detected
Hexane	6.6	Not Detected	23	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.6	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	6.6	Not Detected	19	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	2.0	7.2	11
Cyclohexane	6.6	Not Detected	23	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
Benzene	1.3	1.6	4.2	5.0
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	6.6	11	27	45
Trichloroethene	1.3	6.3	7.1	34
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	6.6	Not Detected	24	Not Detected
Bromodichloromethane	6.6	Not Detected	44	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	6.6	Not Detected	27	Not Detected
Toluene	1.3	2.7	5.0	10
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	6.6	Not Detected	27	Not Detected
Dibromochloromethane	6.6	Not Detected	56	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected

AIR TOXICS LTD.

Client Sample ID: SV-A02

Lab ID#: 0504472-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050519	Date of Collection: 4/21/05
Dil. Factor:	13.2	Date of Analysis: 5/6/05 05:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	1.7	5.7	7.6
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	420	5.6	1800
Bromoform	6.6	Not Detected	68	Not Detected
Cumene	6.6	Not Detected	32	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	6.6	Not Detected	32	Not Detected
4-Ethyltoluene	6.6	Not Detected	32	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	6.6	Not Detected	49	Not Detected
Hexachlorobutadiene	6.6	Not Detected	70	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

```
Data file : /chem/msd7.i/7-05may.b/7050519.d  
Lab Smp Id: 0504472-04A  
Inj Date   : 06-MAY-2005 05:24  
Operator    : WW                               Inst ID: msd7.i  
Smp Info    : 60mL #31148  
Misc Info   : 4.5"Hg-5psi          ERM  
Comment     :  
Method      : /chem/msd7.i/7-05may.b/t14l1501a.m  
Meth Date   : 09-May-2005 14:50 lsoohoo       Quant Type: ISTD  
Cal Date    : 01-MAY-2005 17:45              Cal File: 7050113.d  
Als bottle: 1  
Dil Factor: 13.20000  
Integrator: HP RTE                             Compound Sublist: AT.sub  
Target Version: 3.50                           Sample Matrix: AIR  
Processing Host: eeyore
```

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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18	18
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91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

RT	EXP	RT (REL	RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET	RANGE	RATIO
						ON-COL	FINAL			
==	=====	=====		=====	(PPBV)	(PPBV)		=====		=====
* 34	Bromochloromethane					CAS #:		74-97-5		
16.317	16.317	(1.000)		130	173597	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)		128	134433			47.67-	107.67	77.44
16.317	16.317	(1.000)		49	319860			141.21-	201.21	184.25

* 46	1,4-Difluorobenzene					CAS #:		540-36-3		
17.782	17.782	(1.000)		114	791595	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)		88	97026			0.00-	42.60	12.26

* 62	Chlorobenzene-d5					CAS #:		3114-55-4		
22.123	22.123	(1.000)		117	715510	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)		82	319294			13.88-	73.88	44.62

\$ 41	1,2-Dichloroethane-d4					CAS #:		17060-07-0		
17.202	17.202	(1.054)		65	168561	10.1264	10.126	80.00-	120.00	100.00
17.202	17.202	(1.054)		67	92411			39.84-	99.84	54.82

\$ 53	Toluene-d8					CAS #:		2037-26-5		
19.884	19.884	(1.118)		98	717563	9.87175	9.872	80.00-	120.00	100.00
19.884	19.884	(1.118)		70	64049			0.00-	38.58	8.93

CONCENTRATIONS									
				ON-COL	FINAL				
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.884	19.884	(1.118)	100	481615			38.13-	98.13	67.12

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	459949	10.6803	10.680	80.00-	120.00	100.00
23.948	23.948	(1.082)	95	480748			73.19-	133.19	104.52
23.948	23.948	(1.082)	176	452508			66.66-	126.66	98.38

37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.649	16.649	(1.020)	97	6801	0.14986	1.978	80.00-	120.00	100.00
16.649	16.649	(1.020)	99	4247			34.18-	94.18	62.44

42 Benzene						CAS #:	71-43-2		
17.202	17.202	(0.967)	78	11672	0.11928	1.574	80.00-	120.00	100.00
17.202	17.202	(0.967)	77	2803			0.00-	51.60	24.02

44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	71176	0.83702	11.049	80.00-	120.00	100.00
17.423	17.423	(0.980)	57	32007			15.52-	75.52	44.97
17.450	17.450	(0.981)	100	8001			0.00-	42.74	11.24

47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	26084	0.47612	6.285	80.00-	120.00	100.00
18.142	18.142	(1.020)	95	20261			47.95-	107.95	77.68
18.142	18.142	(1.020)	97	13675			20.27-	80.27	52.43

54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	24785	0.20479	2.703	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	14666			29.68-	89.68	59.18

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	9992	0.13226	1.746	80.00-	120.00	100.00
22.427	22.427	(1.014)	91	16916			116.47-	176.47	169.29

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	2304483	32.1400	424.25	80.00-	120.00	100.00
23.091	23.091	(1.044)	78	711118			8.13-	68.13	30.86

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050519.d
Lab Smp Id: 0504472-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: WW

Calibration Date: 05-MAY-2005
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-05may.b/t141501a.m

Misc Info: 4.5"Hg-5psi ERM

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	273711	164227	383195	173597	-36.58
46 1,4-Difluorobenze	1190742	714445	1667039	791595	-33.52
62 Chlorobenzene-d5	1102533	661520	1543546	715510	-35.10

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0504472-04A	
Level: LOW	Operator: WW
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 4.5"Hg-5psi	ERM

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	10.126	101.26	70-130
\$ 53 Toluene-d8	10.000	9.872	98.72	70-130
\$ 71 Bromofluorobenzene	10.000	10.680	106.80	70-130

Date : 06-MAY-2005 05:24

Client ID:

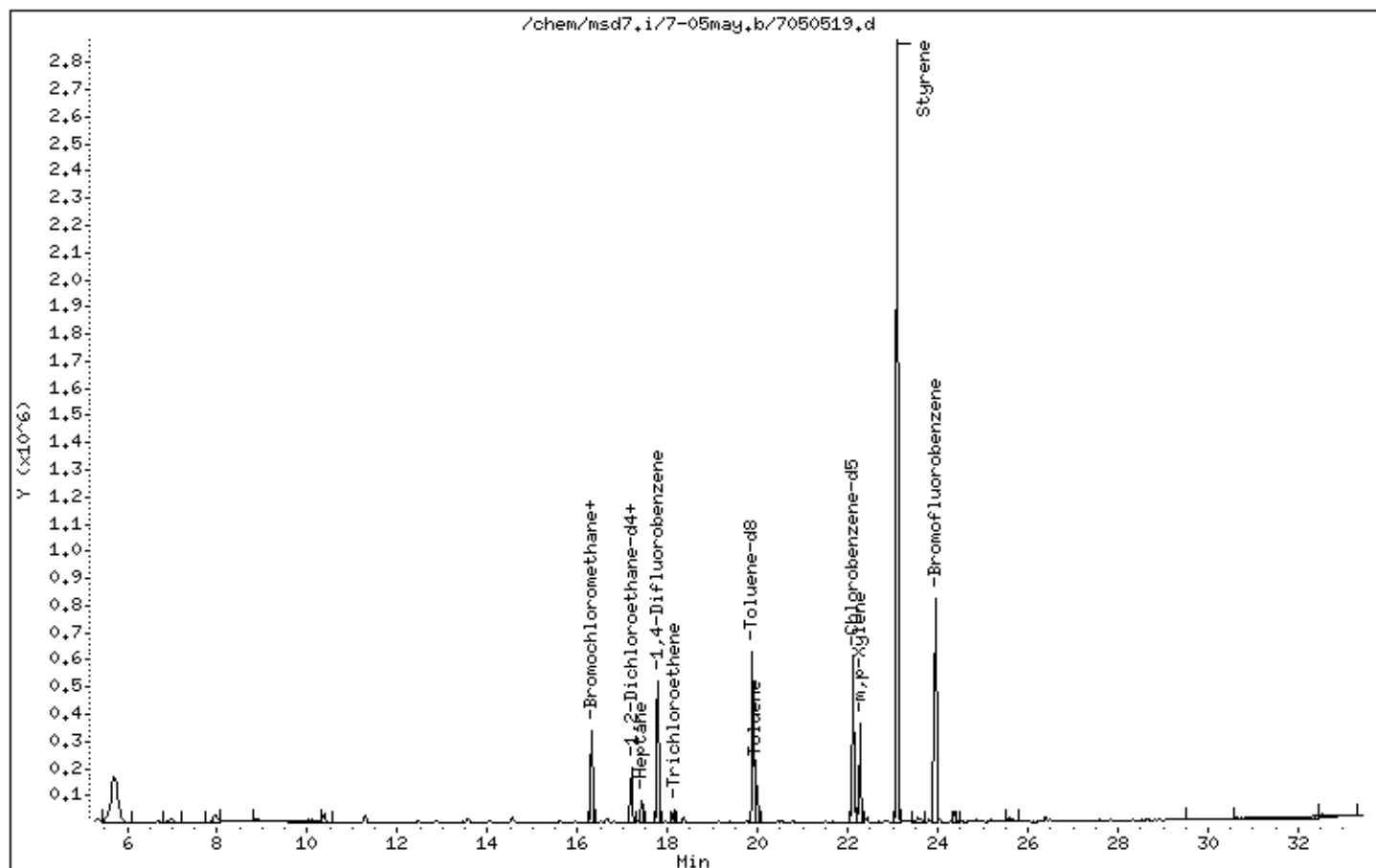
Instrument: msd7.i

Sample Info: 60mL #31148

Operator: WM

Column phase: RTX-624

Column diameter: 0.32



Date : 06-MAY-2005 05:24

Client ID:

Instrument: msd7.i

Sample Info: 60mL #31148

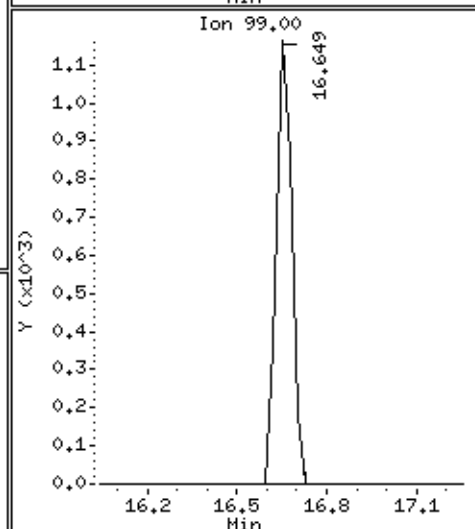
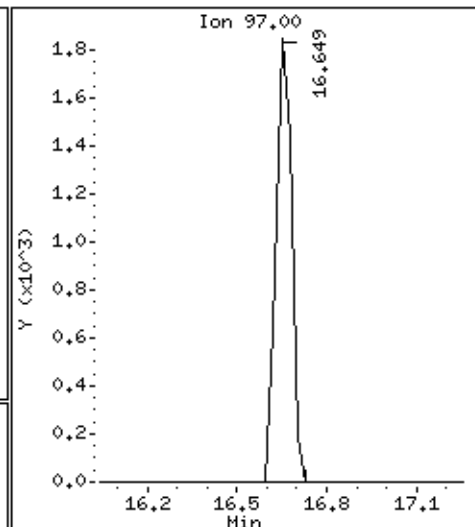
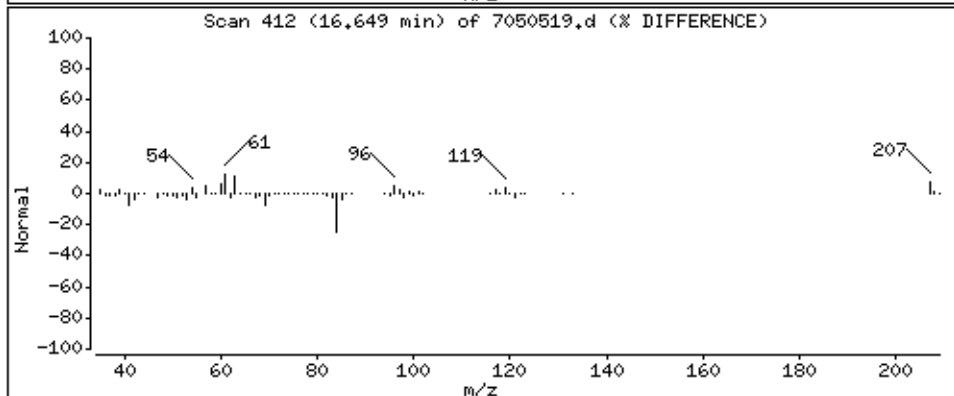
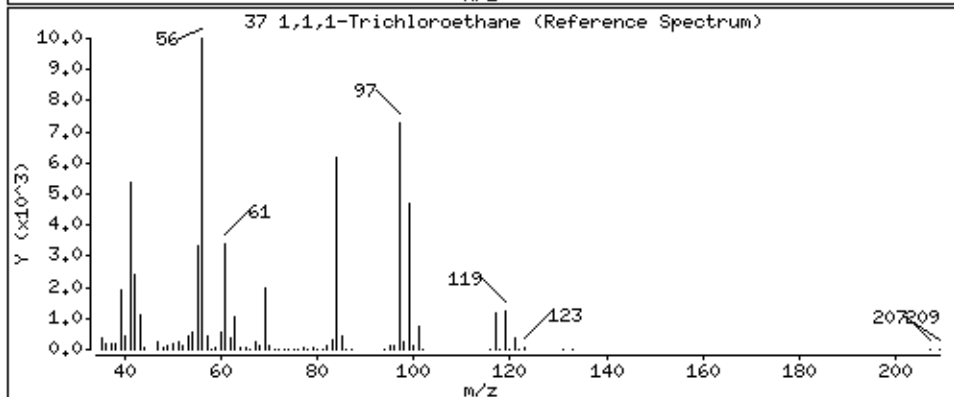
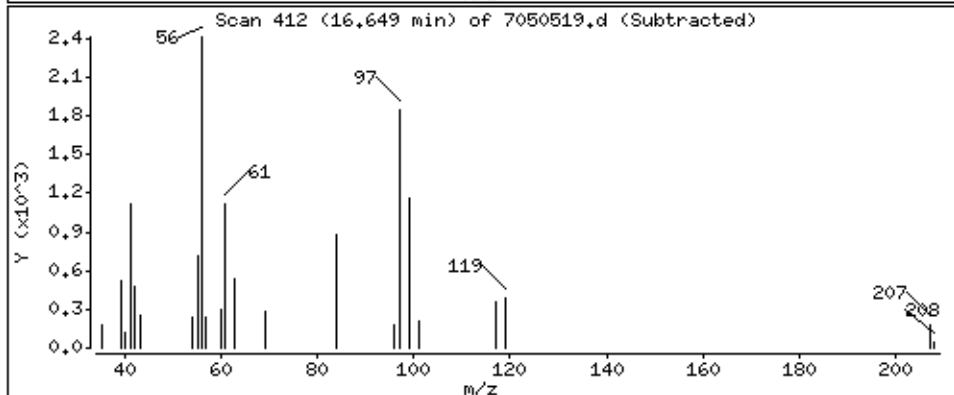
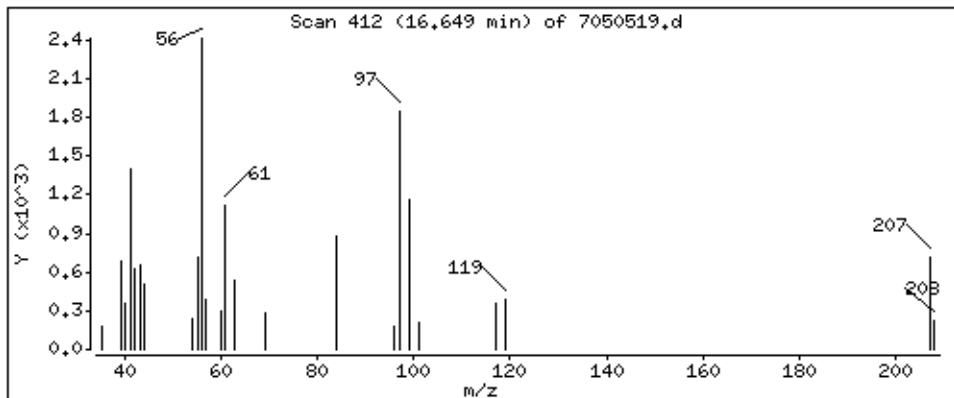
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

37 1,1,1-Trichloroethane

Concentration: 1.978 PPBV



Date : 06-MAY-2005 05:24

Client ID:

Instrument: msd7.i

Sample Info: 60mL #31148

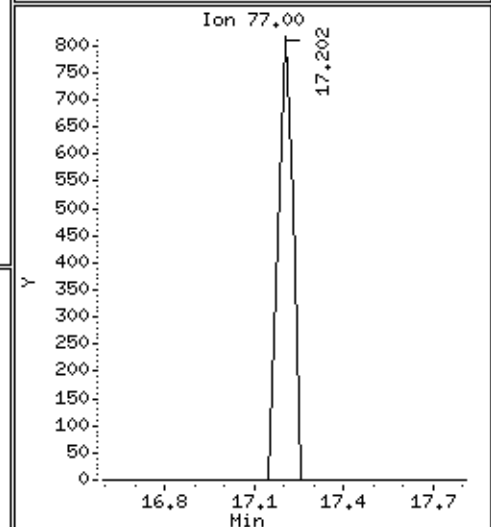
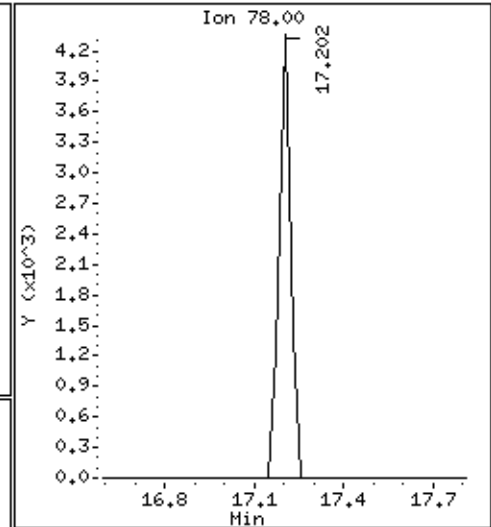
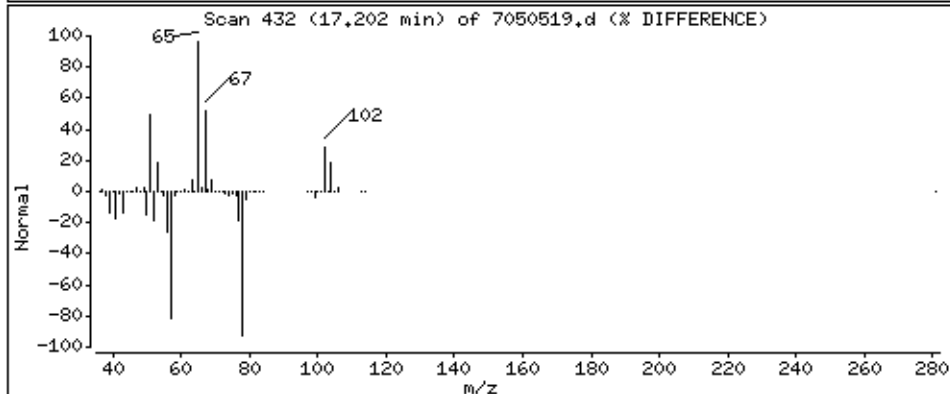
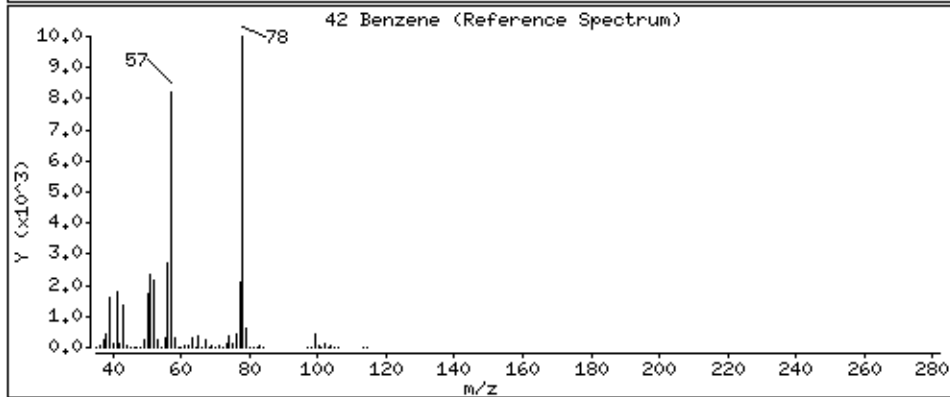
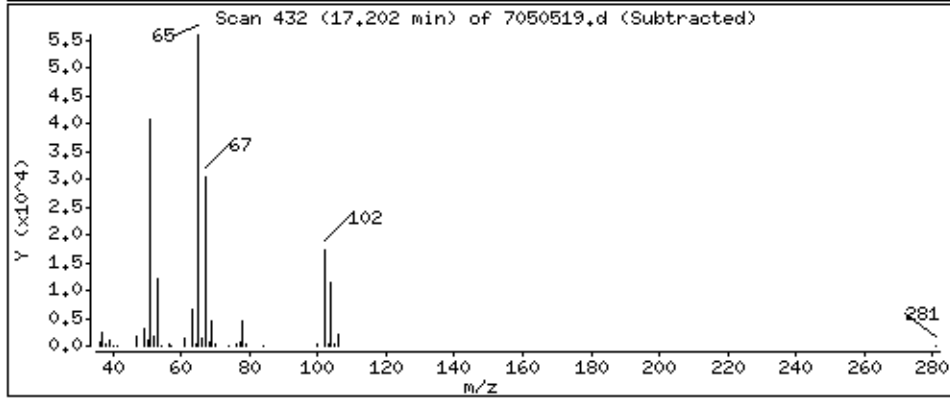
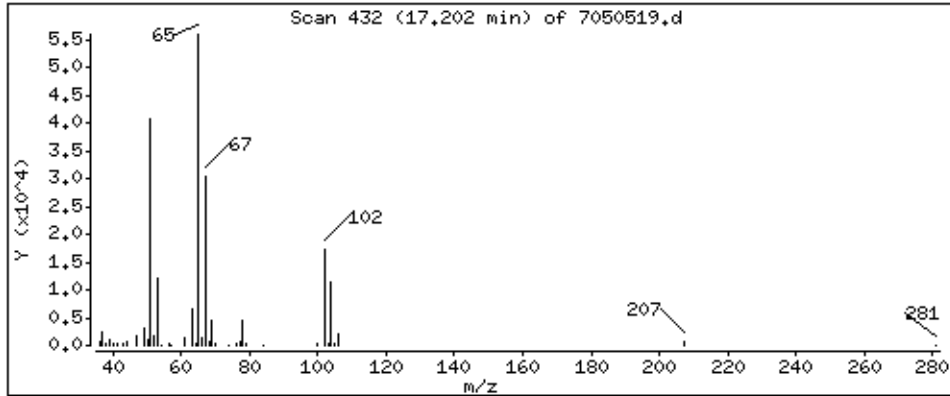
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

42 Benzene

Concentration: 1,574 PPBV



Date : 06-MAY-2005 05:24

Client ID:

Instrument: msd7.i

Sample Info: 60mL #31148

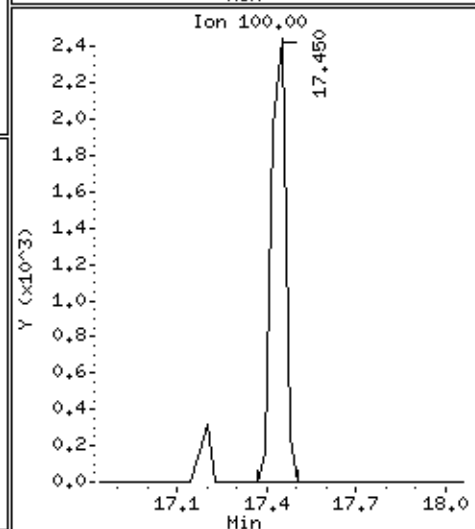
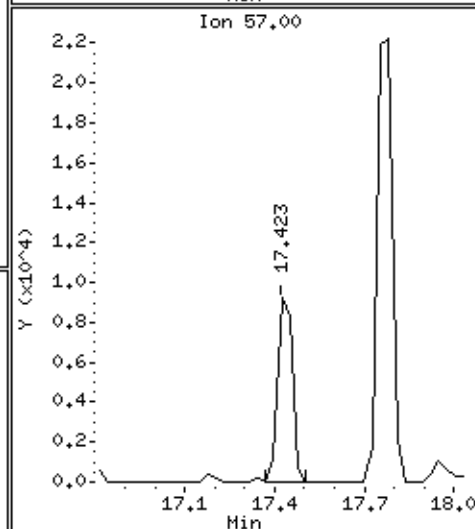
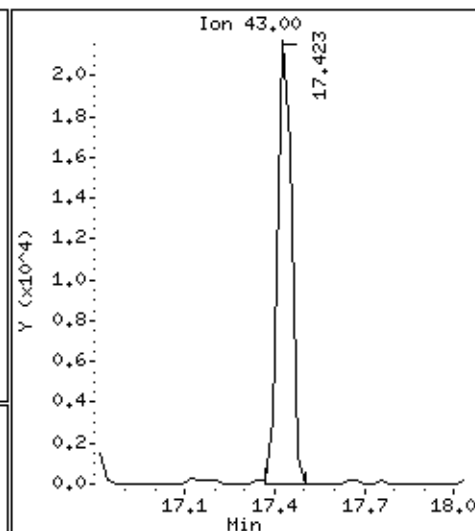
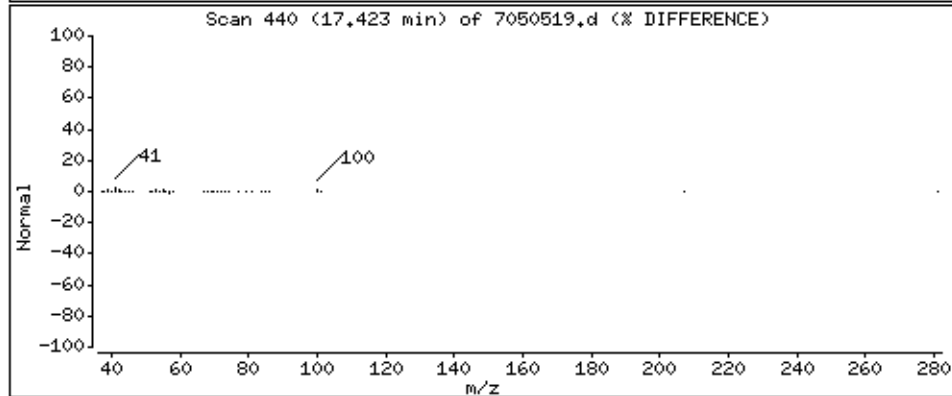
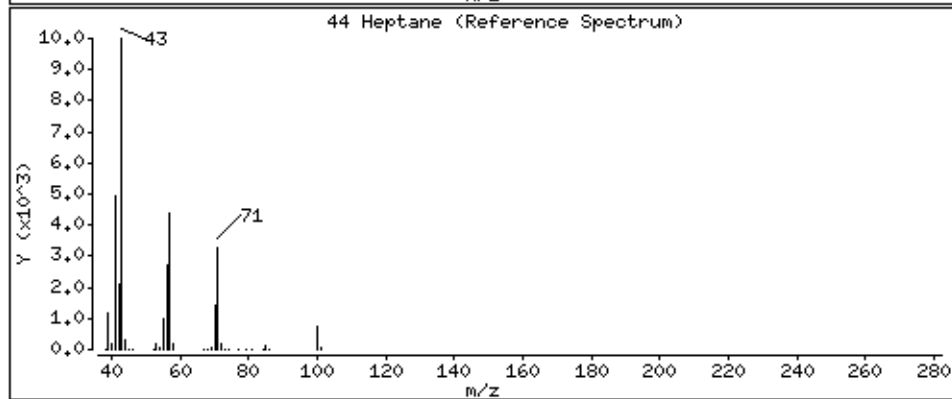
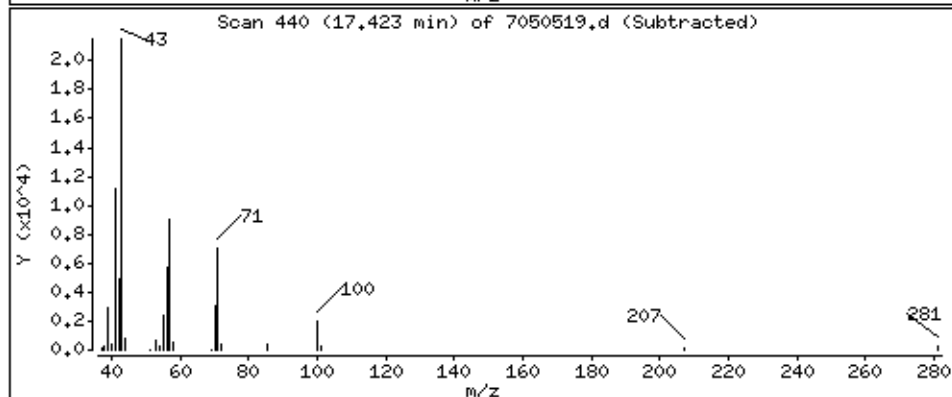
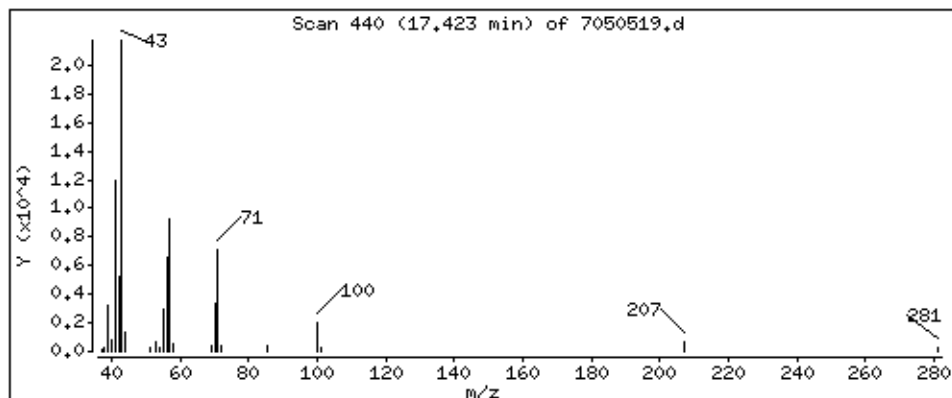
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

44 Heptane

Concentration: 11,049 PPBV



Date : 06-MAY-2005 05:24

Client ID:

Instrument: msd7.i

Sample Info: 60mL #31148

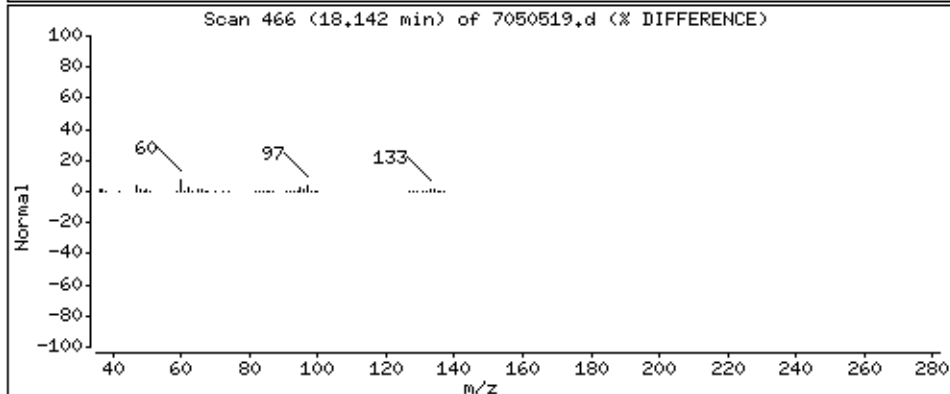
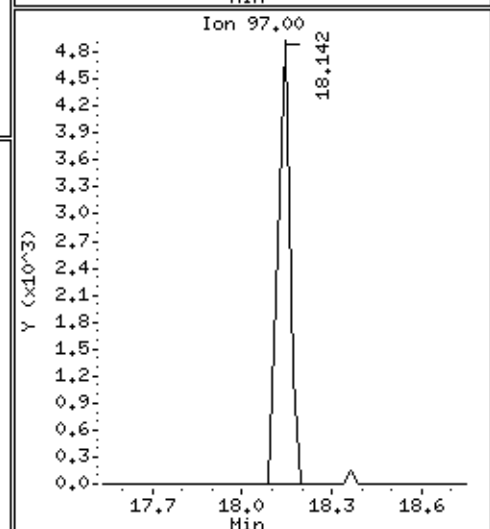
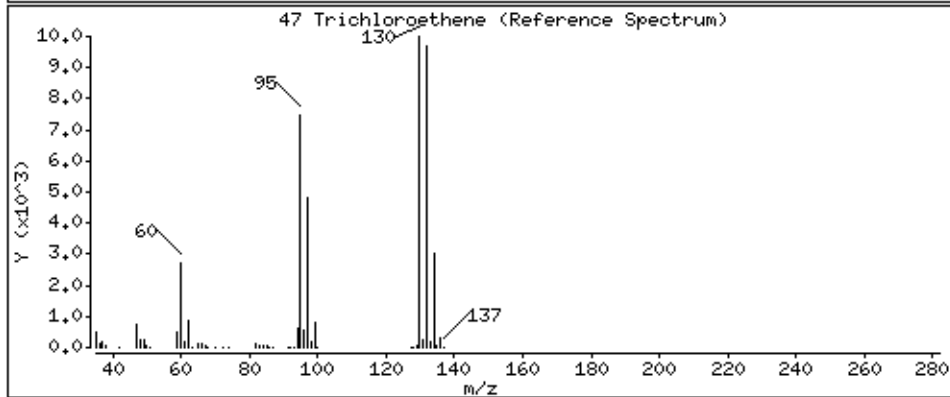
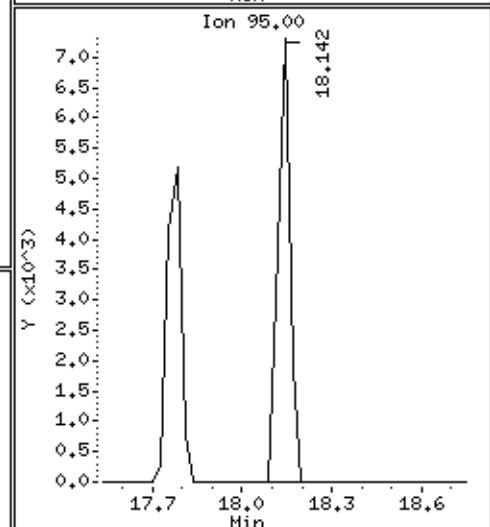
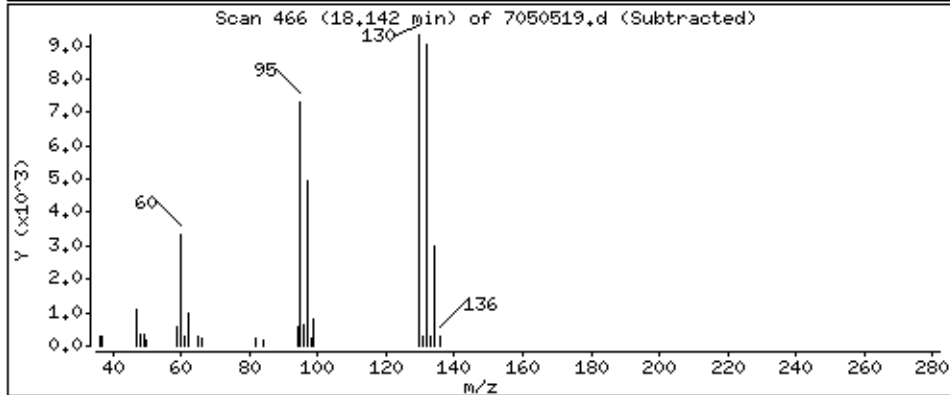
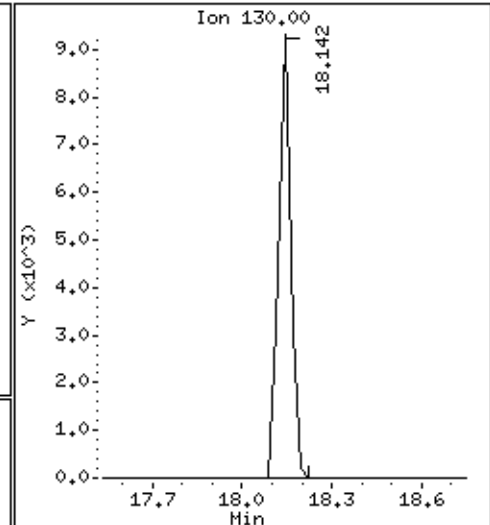
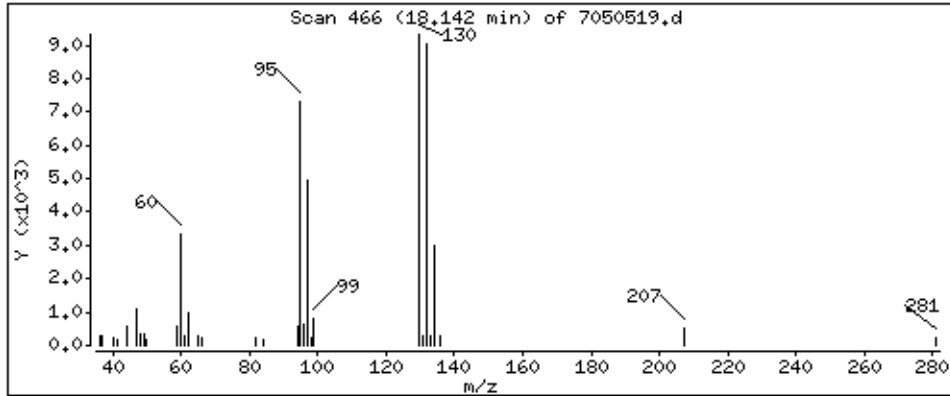
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

47 Trichloroethene

Concentration: 6.285 PPBV



Date : 06-MAY-2005 05:24

Client ID:

Instrument: msd7.i

Sample Info: 60mL #31148

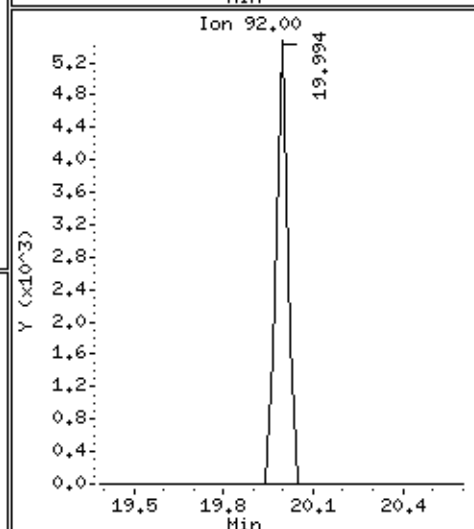
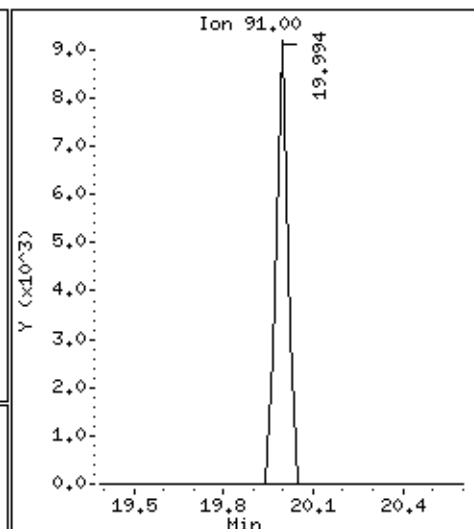
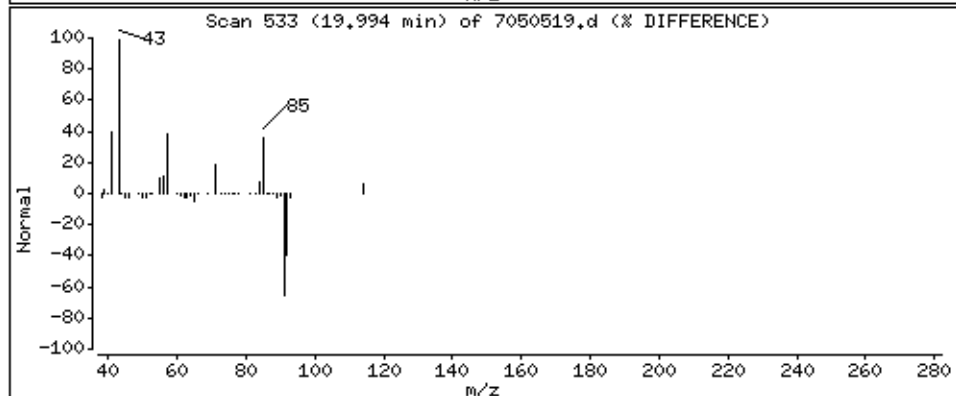
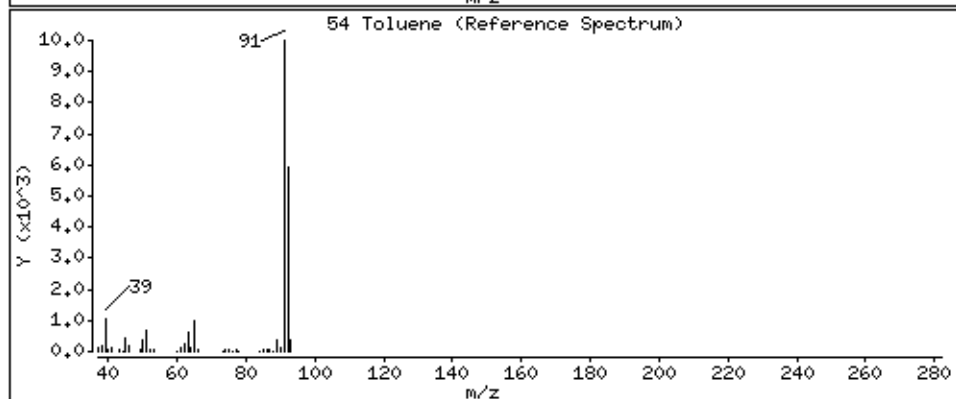
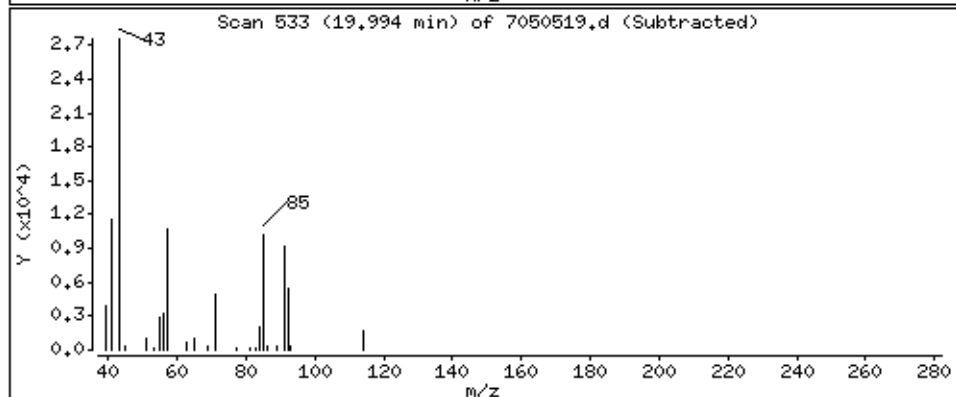
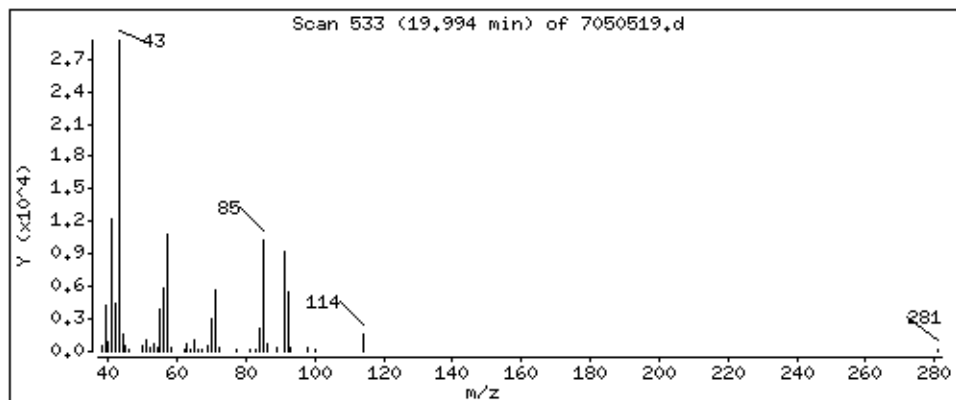
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

54 Toluene

Concentration: 2.703 PPBV



Date : 06-MAY-2005 05:24

Client ID:

Instrument: msd7.i

Sample Info: 60mL #31148

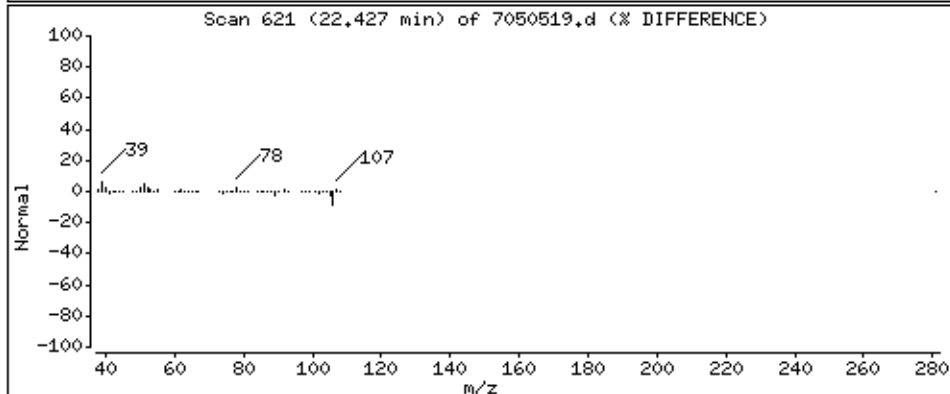
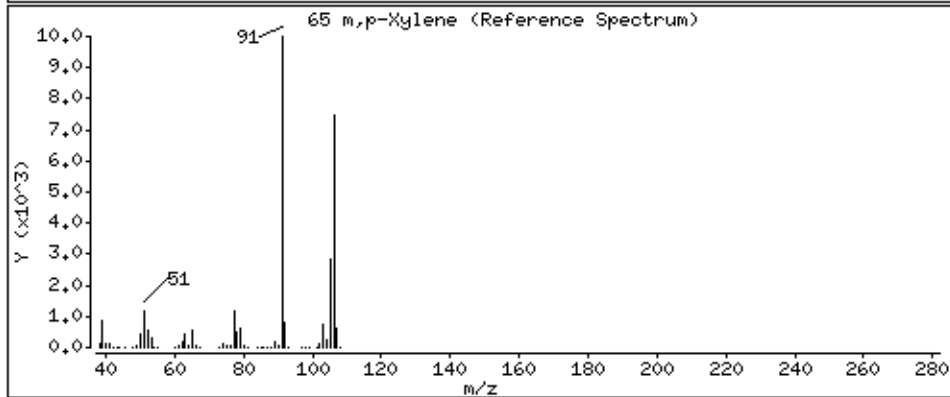
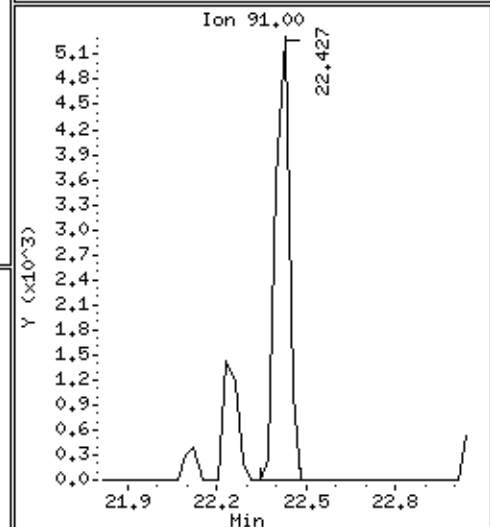
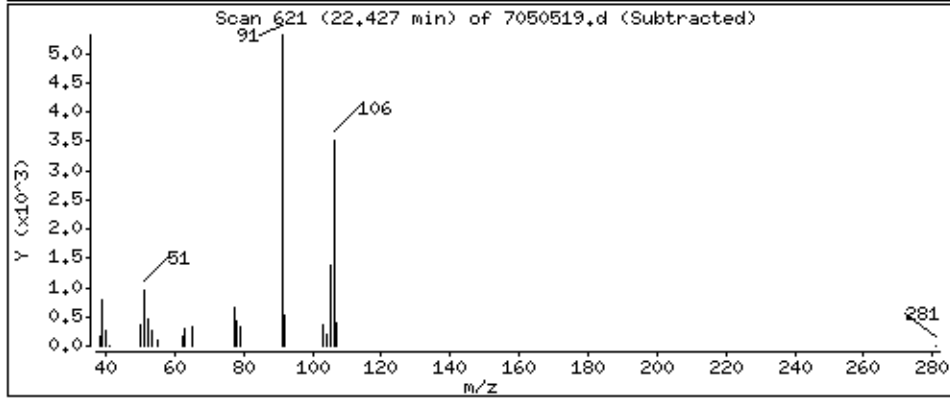
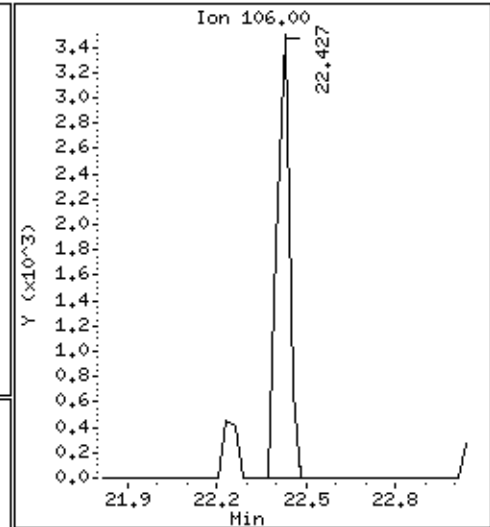
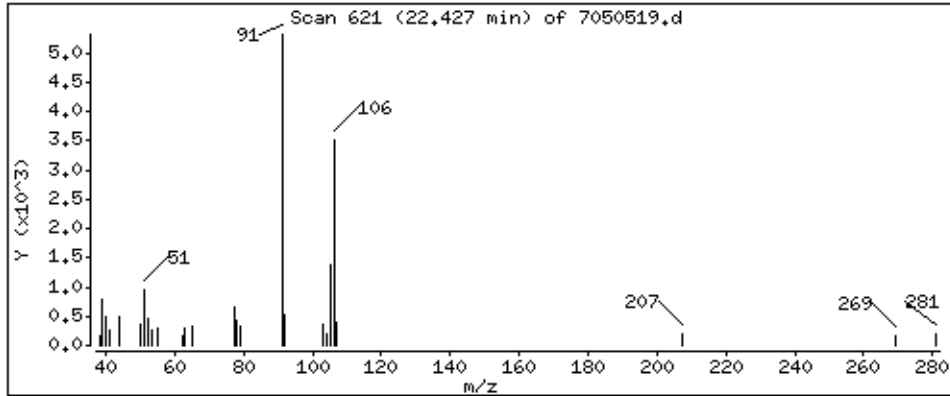
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

65 m,p-Xylene

Concentration: 1.746 PPBV



Date : 06-MAY-2005 05:24

Client ID:

Instrument: msd7.i

Sample Info: 60mL #31148

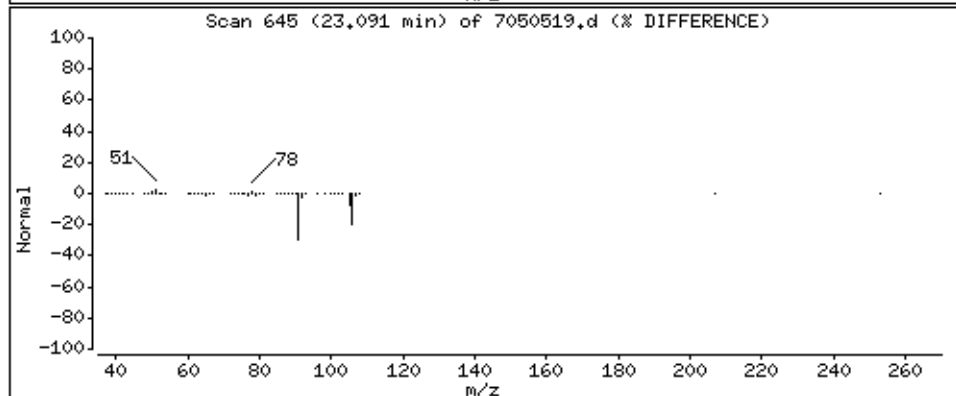
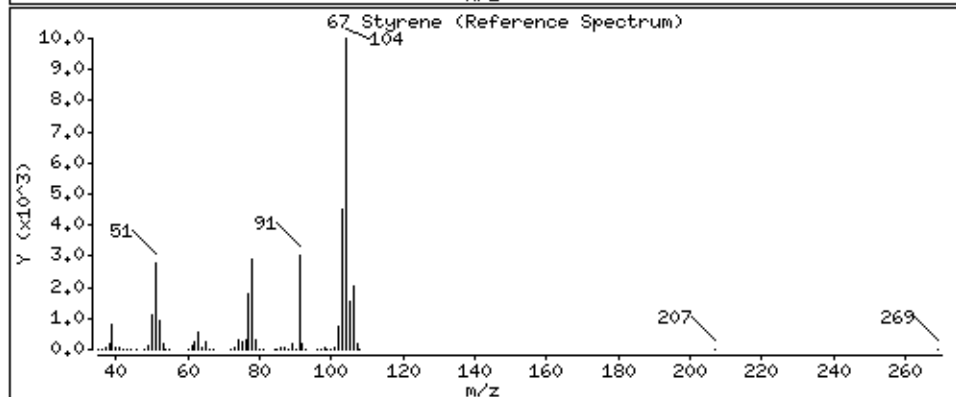
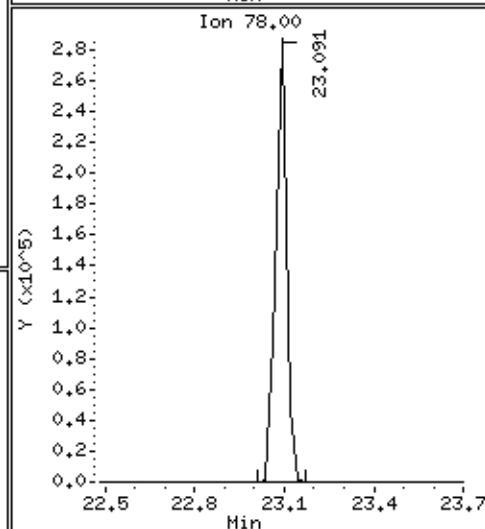
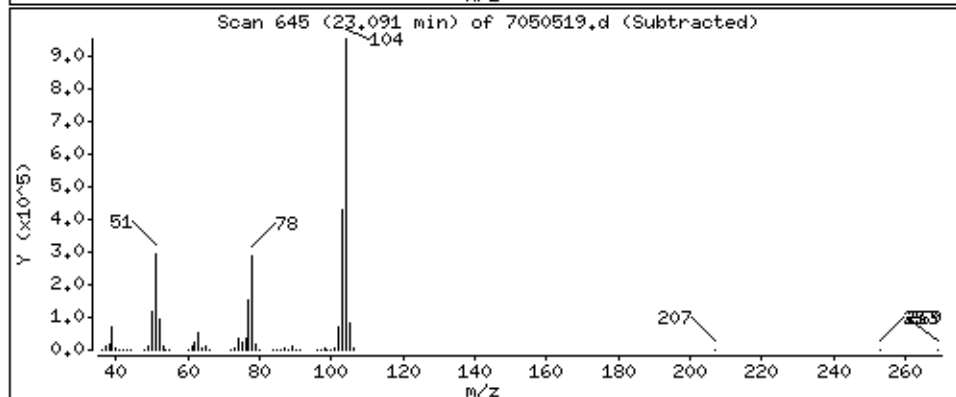
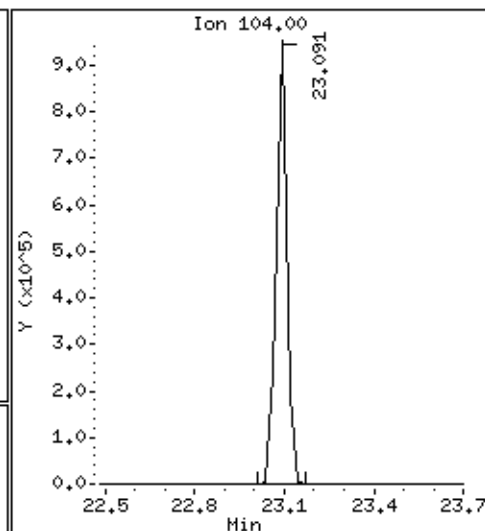
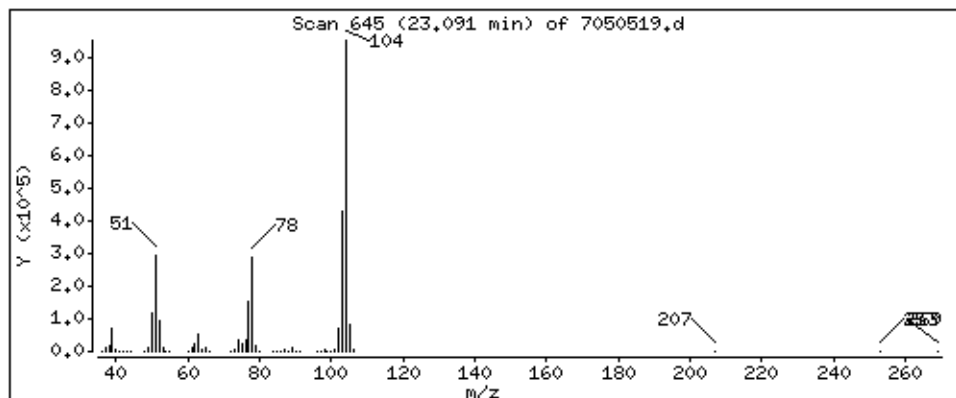
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

67 Styrene

Concentration: 424.25 PPBV



AIR TOXICS LTD.

Client Sample ID: IA-A03

Lab ID#: 0504472-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050518	Date of Collection: 4/21/05
Dil. Factor:	1.68	Date of Analysis: 5/6/05 04:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.17	1.5	0.83	7.7
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.57	0.35	1.2
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	0.17	Not Detected	0.65	Not Detected
Chloroethane	0.17	Not Detected	0.44	Not Detected
Freon 11	0.17	1.3	0.94	7.4
Ethanol	0.84	9.2	1.6	17
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	8.5	2.0	20
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	0.51	1.2	1.8
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	2.7	0.67	10
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	0.42	0.92	2.3
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
Benzene	0.17	0.44	0.54	1.4
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.17	4.2	0.90	23
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.84	Not Detected	3.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	0.17	2.4	0.63	9.2
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected

AIR TOXICS LTD.

Client Sample ID: IA-A03

Lab ID#: 0504472-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050518	Date of Collection: 4/21/05
Dil. Factor:	1.68	Date of Analysis: 5/6/05 04:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.73	Not Detected
m,p-Xylene	0.17	0.45	0.73	2.0
o-Xylene	0.17	0.18	0.73	0.80
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	0.17	0.82	0.82
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-05may.b/7050518.d
Lab Smp Id: 0504472-05A
Inj Date : 06-MAY-2005 04:29
Operator : WW
Smp Info : 500mL #33582
Misc Info : 6.0"Hg-5psi ERM
Comment :
Method : /chem/msd7.i/7-05may.b/t14l501a.m
Meth Date : 09-May-2005 14:50 lsoohoo
Cal Date : 01-MAY-2005 17:45
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd7.i
Quant Type: ISTD
Cal File: 7050113.d
Compound Sublist: AT.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====

* 34 Bromochloromethane						CAS #: 74-97-5			
16.317	16.317	(1.000)	130	200451	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)	128	155380			47.67-	107.67	77.51
16.317	16.317	(1.000)	49	374491			141.21-	201.21	186.82

* 46 1,4-Difluorobenzene						CAS #: 540-36-3			
17.782	17.782	(1.000)	114	888774	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)	88	110036			0.00-	42.60	12.38

* 62 Chlorobenzene-d5						CAS #: 3114-55-4			
22.123	22.123	(1.000)	117	788552	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)	82	352726			13.88-	73.88	44.73

\$ 41 1,2-Dichloroethane-d4						CAS #: 17060-07-0			
17.201	17.202	(1.054)	65	191574	9.96709	9.967	80.00-	120.00	100.00
17.201	17.202	(1.054)	67	109037			39.84-	99.84	56.92

\$ 53 Toluene-d8						CAS #: 2037-26-5			
19.883	19.884	(1.118)	98	808147	9.90230	9.902	80.00-	120.00	100.00
19.883	19.884	(1.118)	70	71857			0.00-	38.58	8.89

CONCENTRATIONS									
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.883	19.884	(1.118)	100	549586			38.13-	98.13	68.01

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	467680	9.85385	9.854	80.00-	120.00	100.00
23.948	23.948	(1.082)	95	490035			73.19-	133.19	104.78
23.948	23.948	(1.082)	176	458378			66.66-	126.66	98.01

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.921	(0.365)	85	55865	0.92228	1.549	80.00-	120.00	100.00
5.948	5.948	(0.365)	87	17610			1.94-	61.94	31.52

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	18771	0.34188	0.5744	80.00-	120.00	100.00
7.303	7.303	(0.448)	52	6125			1.37-	61.37	32.63

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.063	11.036	(0.678)	101	39550	0.78036	1.311	80.00-	120.00	100.00
11.063	11.036	(0.678)	103	25991			34.23-	94.23	65.72

14 Ethanol						CAS #:	64-17-5		
12.003	12.031	(0.736)	45	98596	5.47975	9.206	80.00-	120.00	100.00
12.003	12.031	(0.736)	43	22710			0.00-	47.77	23.03
12.003	12.031	(0.736)	46	41969			10.78-	70.78	42.57

18 Acetone						CAS #:	67-64-1		
12.805	12.833	(0.785)	43	352290	5.08245	8.538	80.00-	120.00	100.00
12.833	12.833	(0.786)	58	105051			1.60-	61.60	29.82

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	8115	0.30562	0.5134	80.00-	120.00	100.00
13.718	13.718	(0.841)	49	15614			169.05-	229.05	192.40
13.718	13.718	(0.841)	51	5013			26.82-	86.82	61.77

31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.929	15.930	(0.976)	98	38488	1.59018	2.671	80.00-	120.00	100.00
15.929	15.930	(0.976)	61	83684			189.88-	249.88	217.43
15.929	15.930	(0.976)	96	58323			129.12-	189.12	151.53

37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.649	(1.020)	97	13139	0.25073	0.4212	80.00-	120.00	100.00
16.648	16.649	(1.020)	99	8775			34.18-	94.18	66.78

42 Benzene						CAS #:	71-43-2		
17.201	17.202	(0.967)	78	29112	0.26498	0.4452	80.00-	120.00	100.00
17.201	17.202	(0.967)	77	7015			0.00-	51.60	24.10

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
47 Trichloroethene						CAS #:	79-01-6		
18.141	18.142	(1.020)	130	155652	2.53050	4.251	80.00-	120.00	100.00
18.141	18.142	(1.020)	95	124459			47.95-	107.95	79.96
18.141	18.142	(1.020)	97	79497			20.27-	80.27	51.07

54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	196813	1.44839	2.433	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	117526			29.68-	89.68	59.71

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	22339	0.26831	0.4508	80.00-	120.00	100.00
22.427	22.427	(1.014)	91	38159			116.47-	176.47	170.82

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	7916	0.10939	0.1838	80.00-	120.00	100.00
23.063	23.063	(1.042)	91	13411			145.90-	205.90	169.40

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	14096	0.09980	0.1677	80.00-	120.00	100.00(a)
25.192	25.192	(1.139)	120	8686			27.10-	87.10	61.62

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050518.d
Lab Smp Id: 0504472-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: WW

Calibration Date: 05-MAY-2005
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-05may.b/t141501a.m

Misc Info: 6.0"Hg-5psi ERM

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	273711	164227	383195	200451	-26.77
46 1,4-Difluorobenze	1190742	714445	1667039	888774	-25.36
62 Chlorobenzene-d5	1102533	661520	1543546	788552	-28.48

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0504472-05A	
Level: LOW	Operator: WW
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 6.0"Hg-5psi	ERM

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.967	99.67	70-130
\$ 53 Toluene-d8	10.000	9.902	99.02	70-130
\$ 71 Bromofluorobenzene	10.000	9.854	98.54	70-130

Date : 06-MAY-2005 04:29

Client ID:

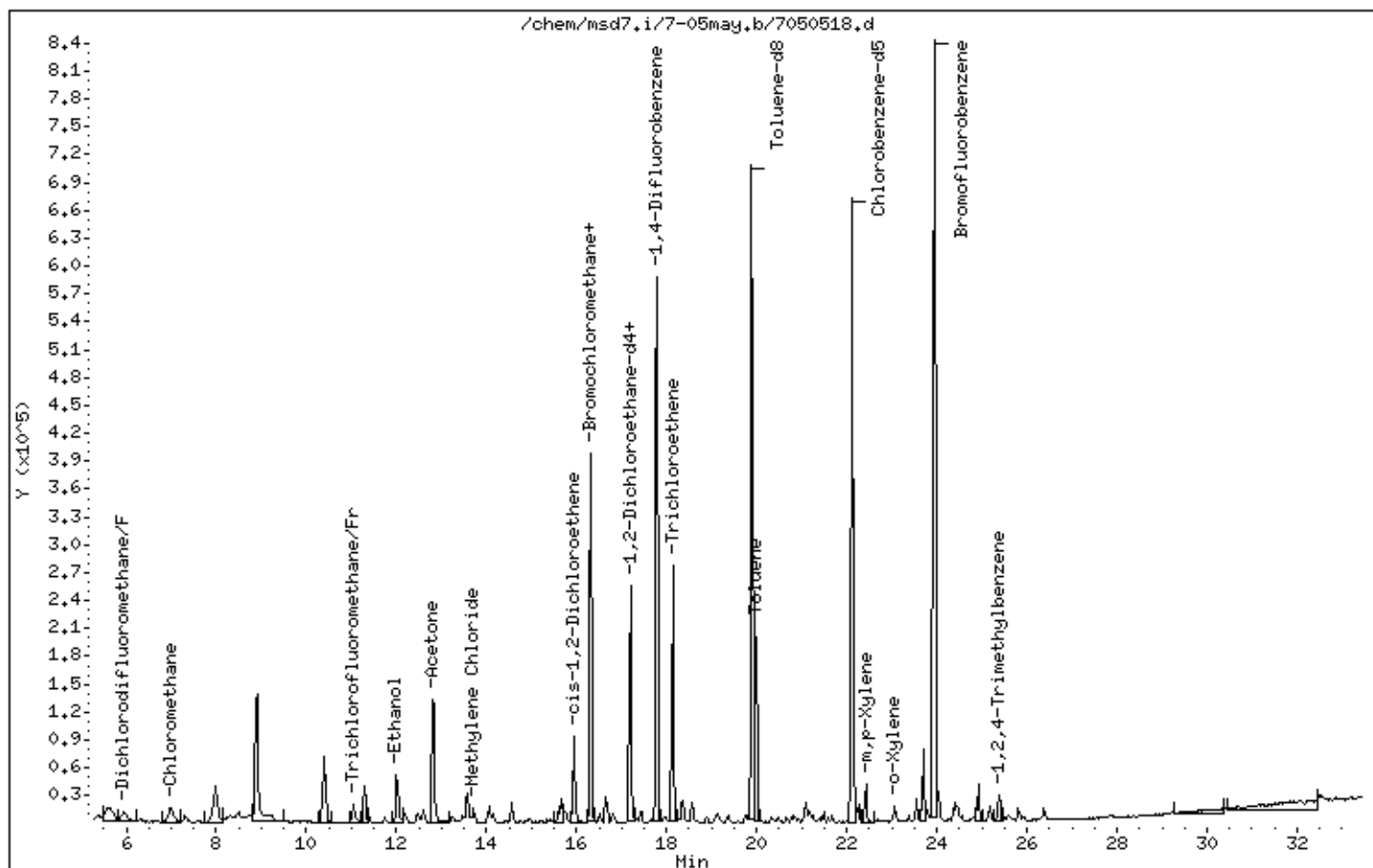
Instrument: msd7.i

Sample Info: 500mL #33582

Operator: WM

Column phase: RTX-624

Column diameter: 0.32



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

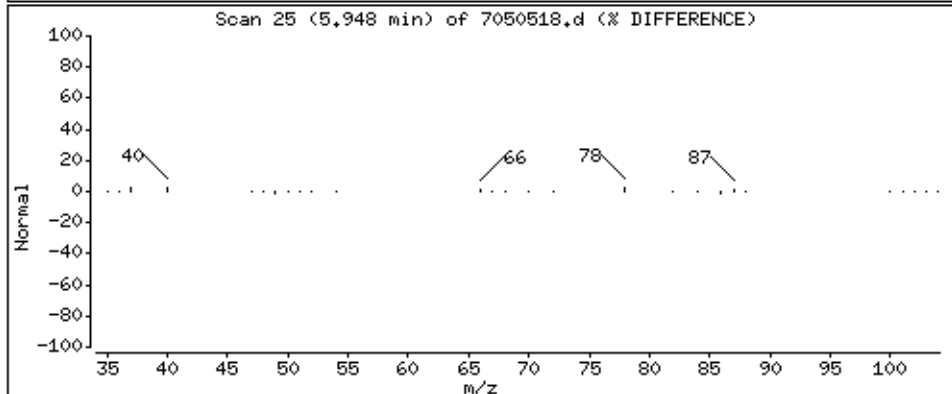
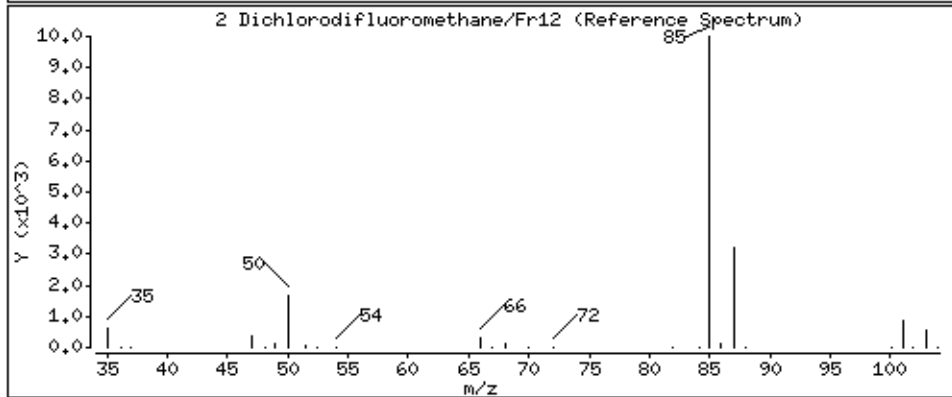
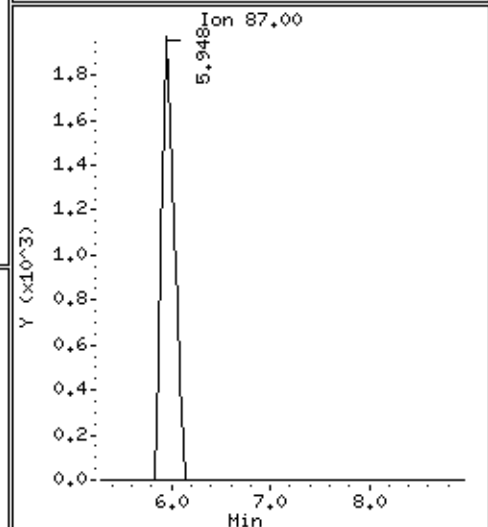
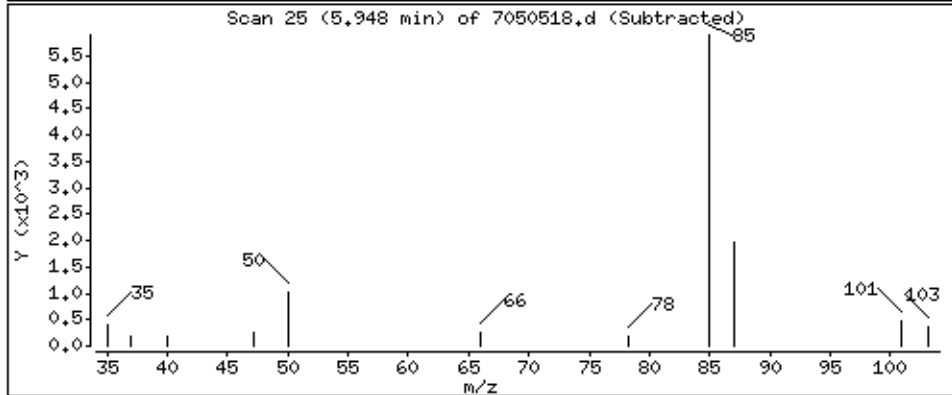
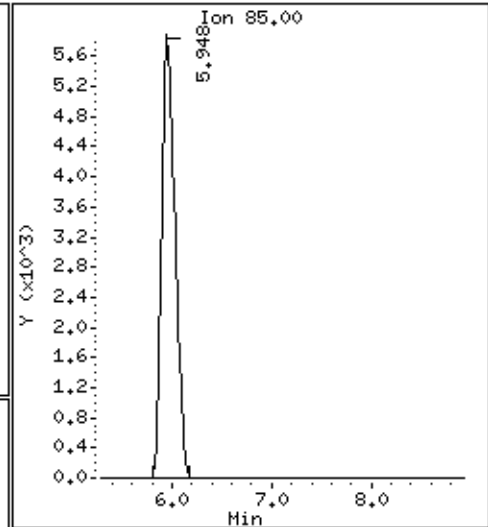
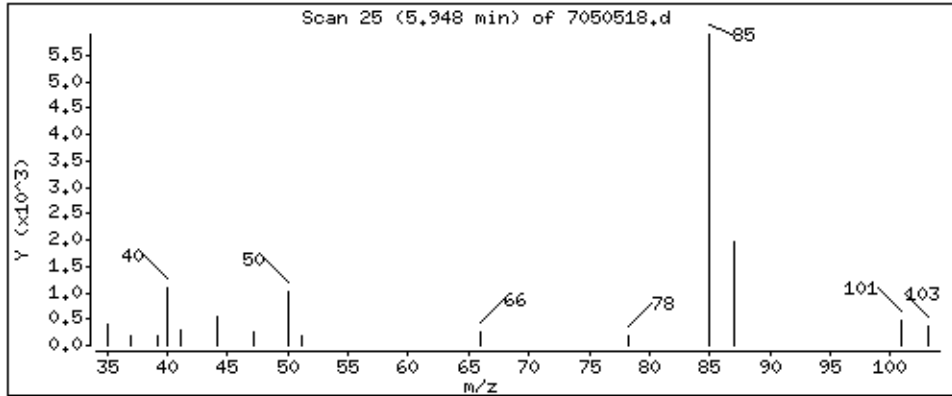
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

2 Dichlorodifluoromethane/Fr12

Concentration: 1.549 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

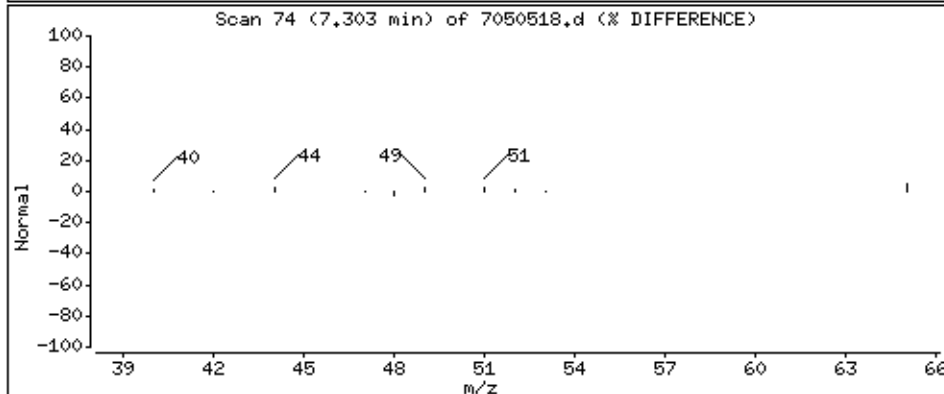
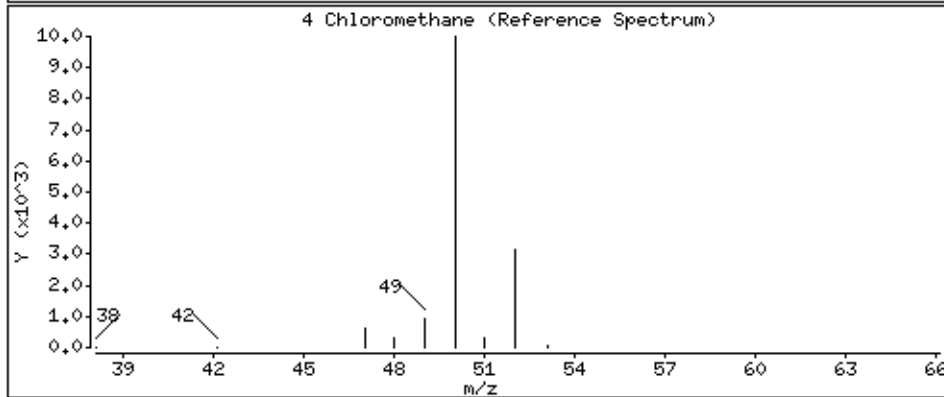
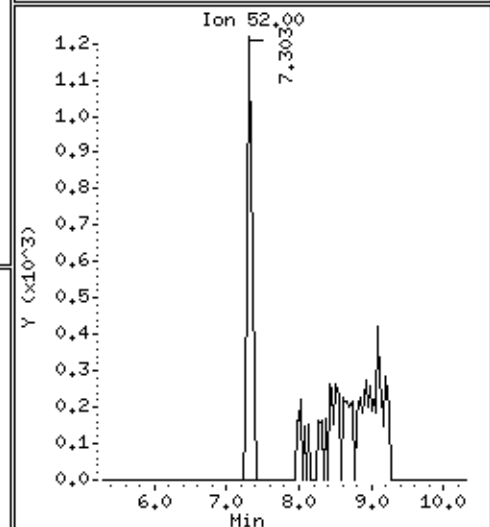
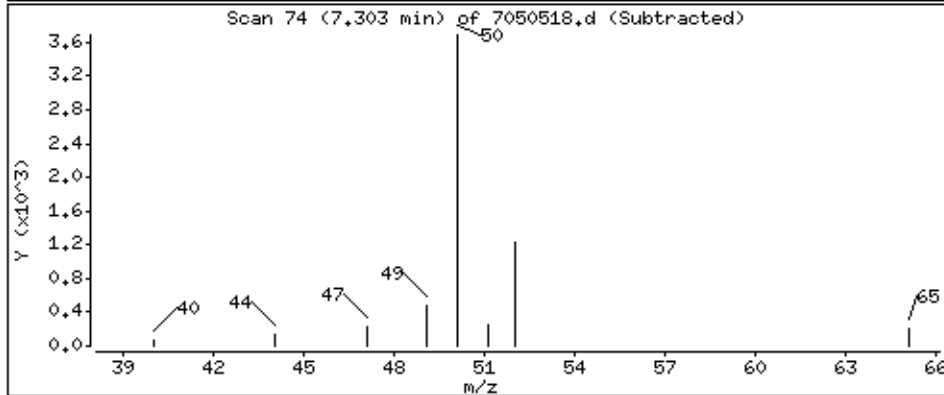
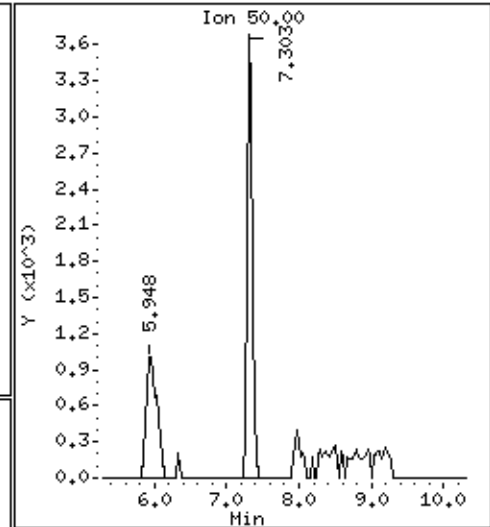
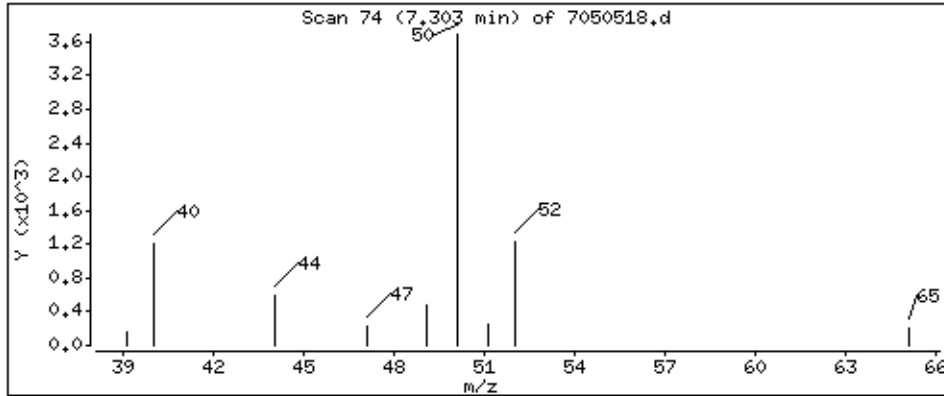
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

4 Chloromethane

Concentration: 0.5744 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

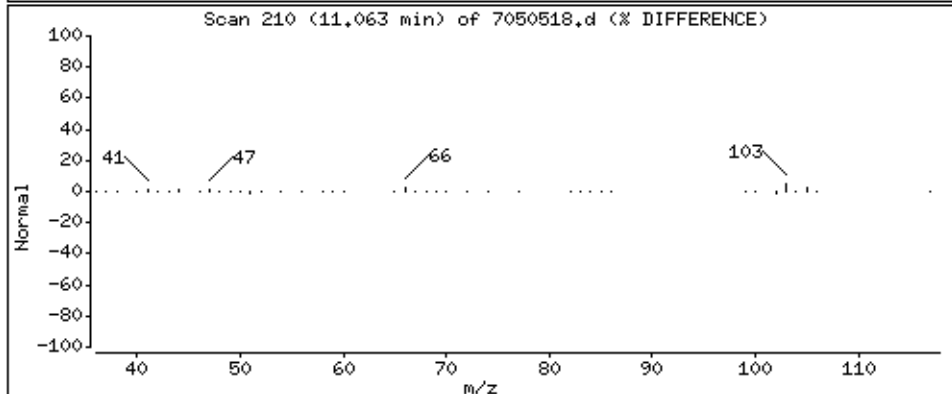
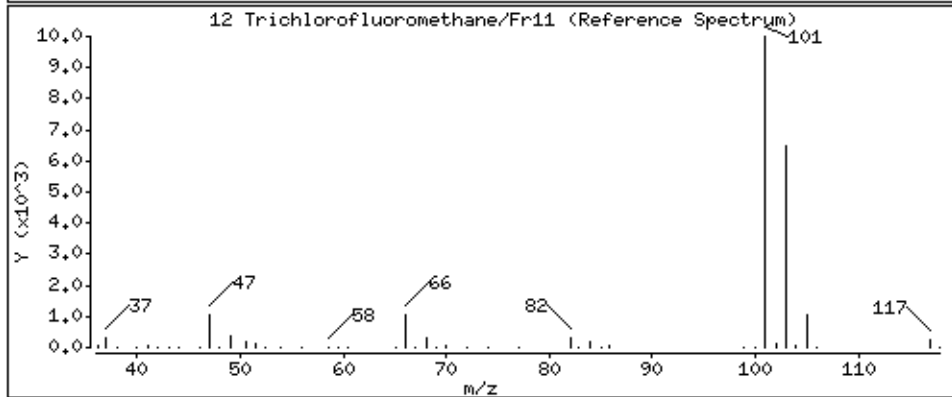
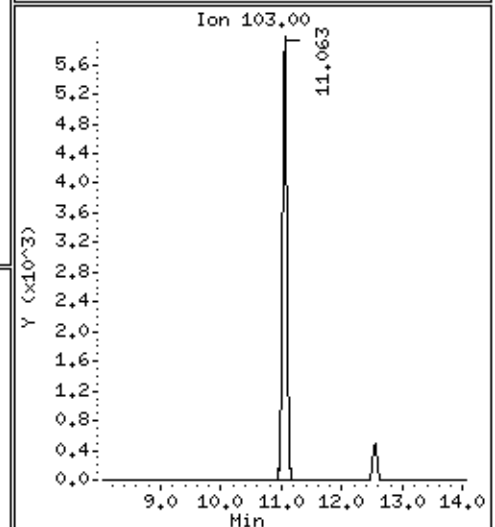
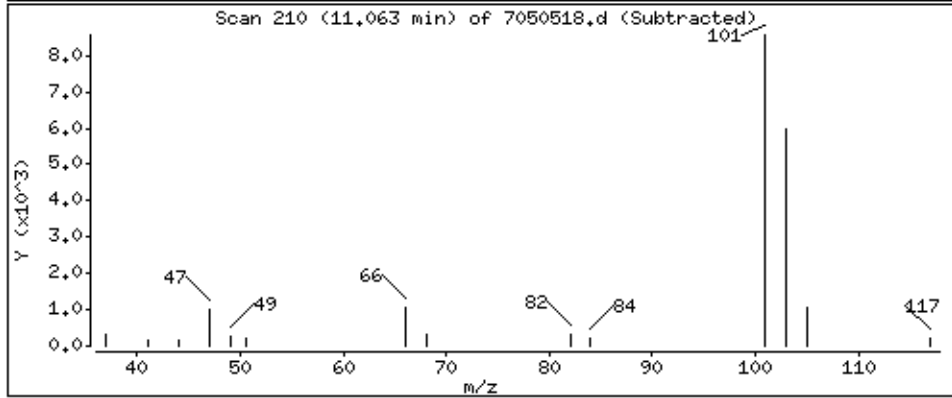
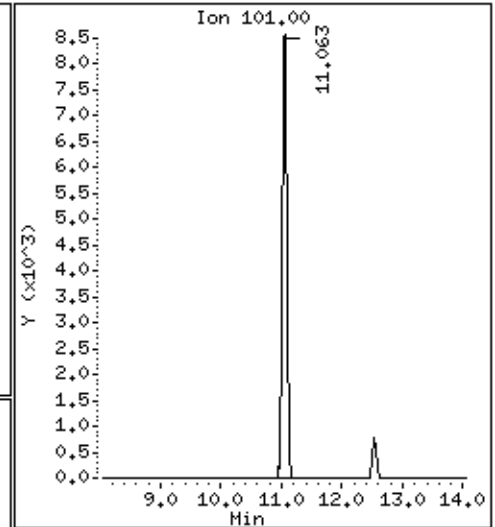
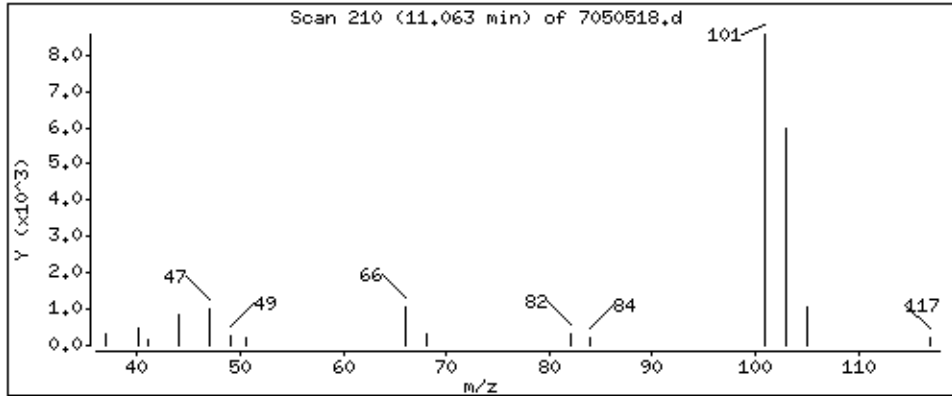
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

12 Trichlorofluoromethane/Fr11

Concentration: 1.311 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

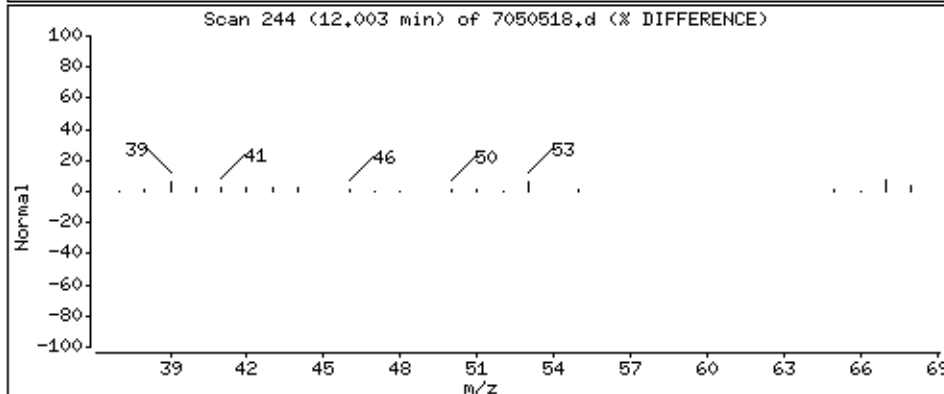
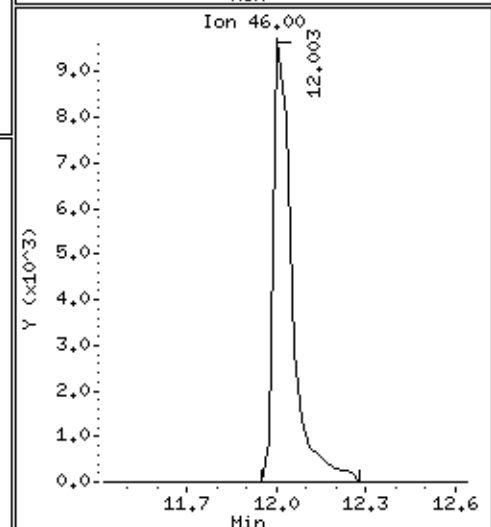
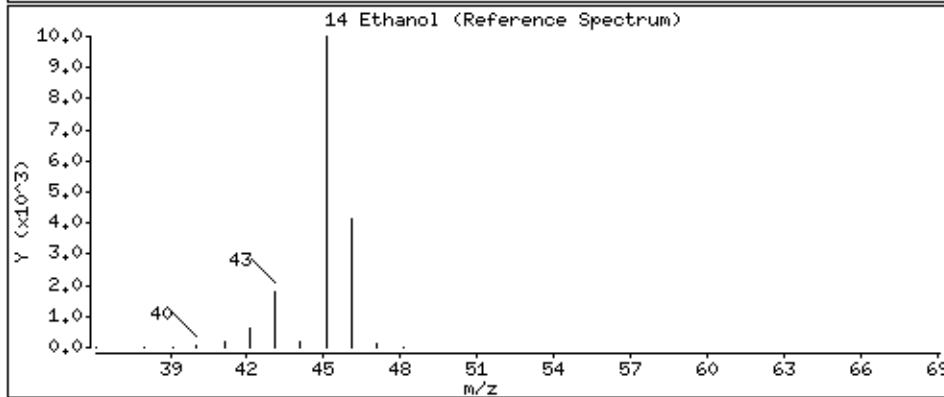
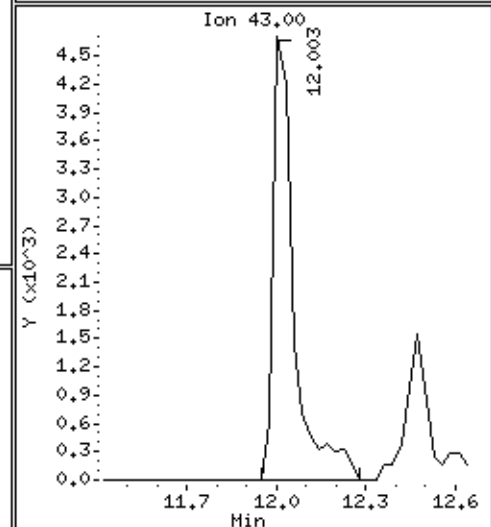
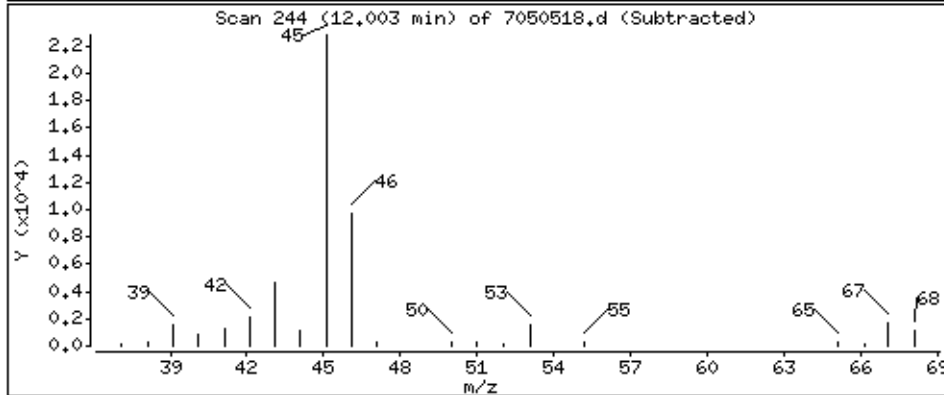
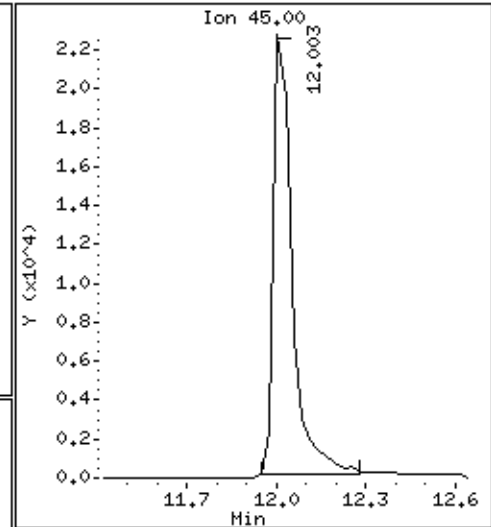
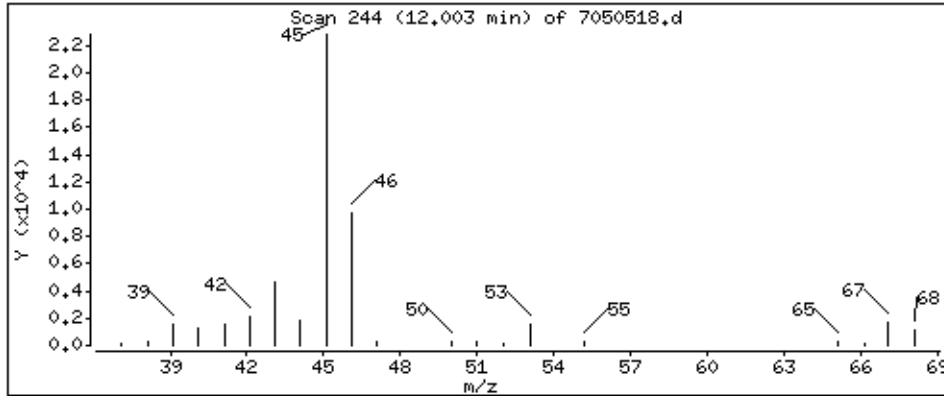
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

14 Ethanol

Concentration: 9.206 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

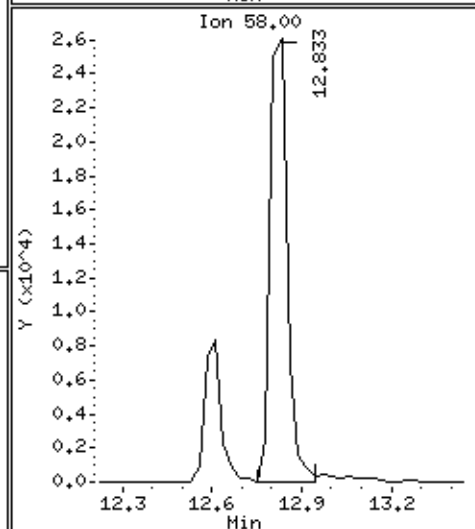
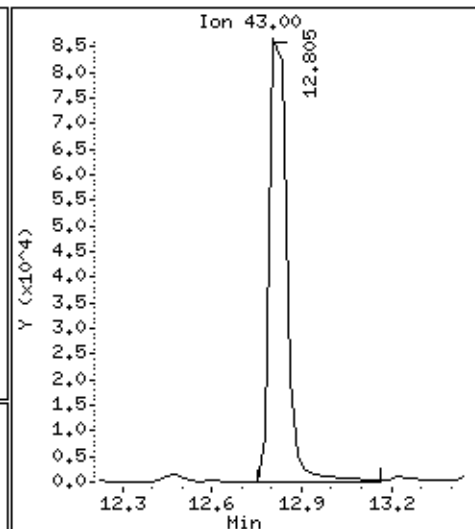
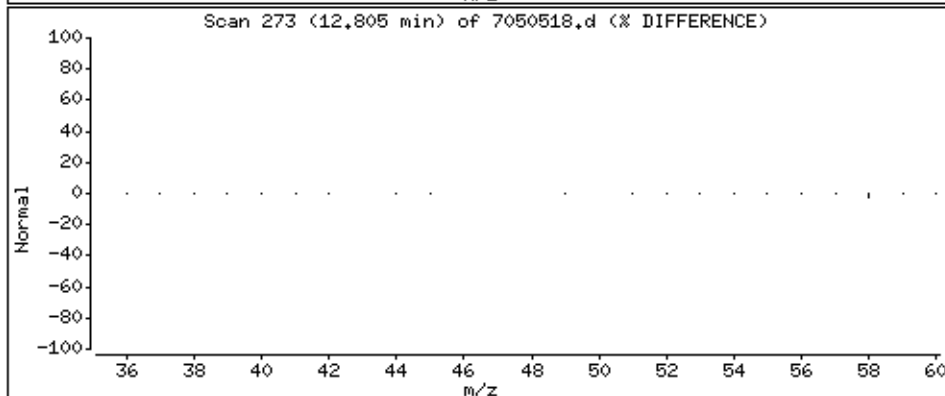
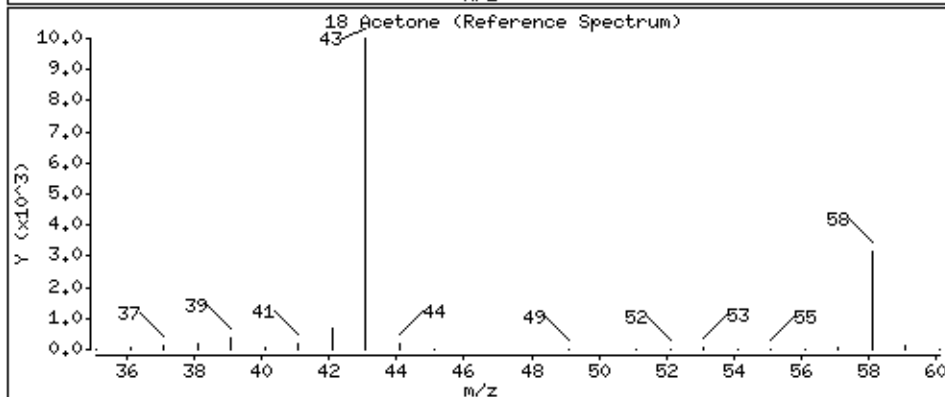
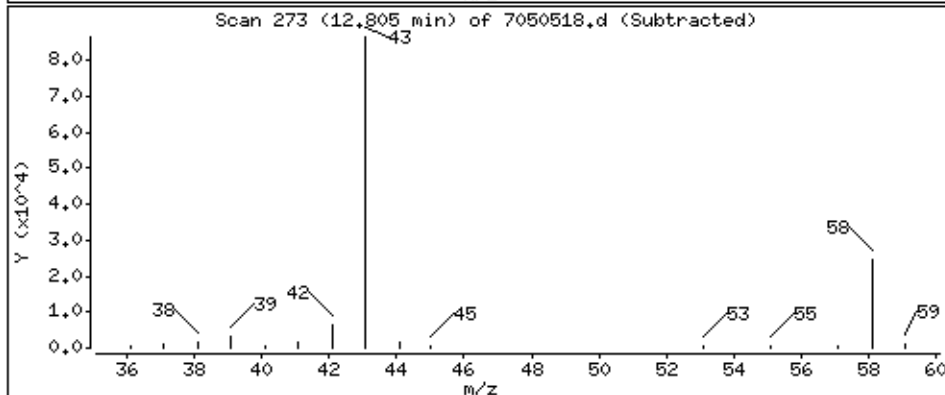
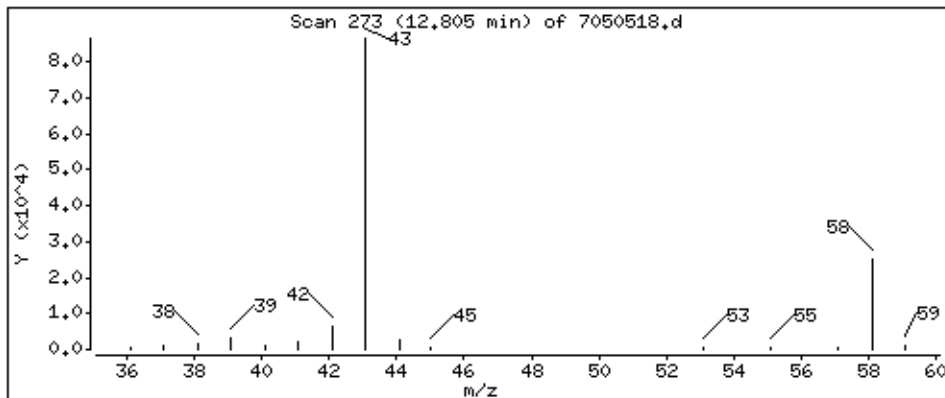
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

18 Acetone

Concentration: 8.538 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

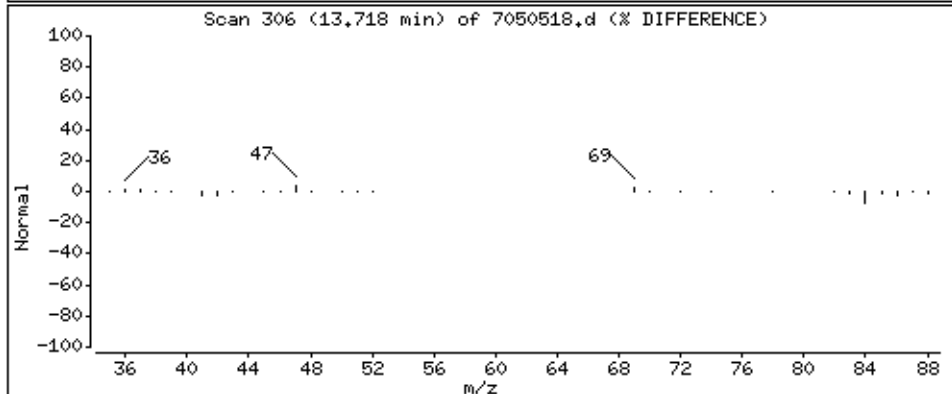
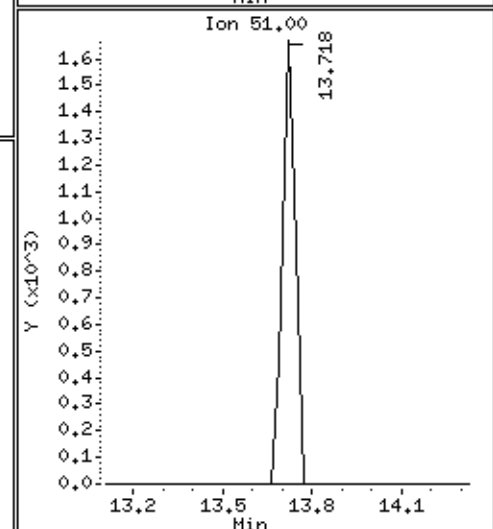
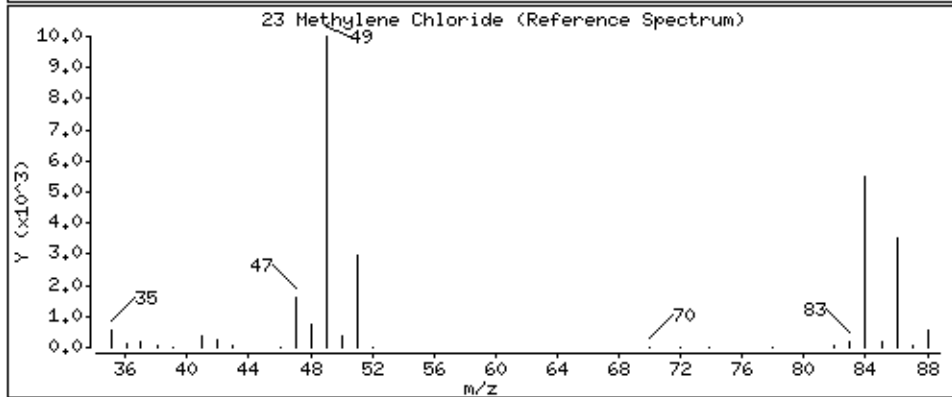
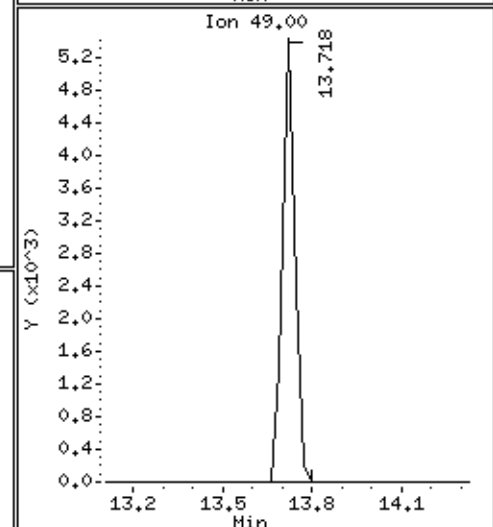
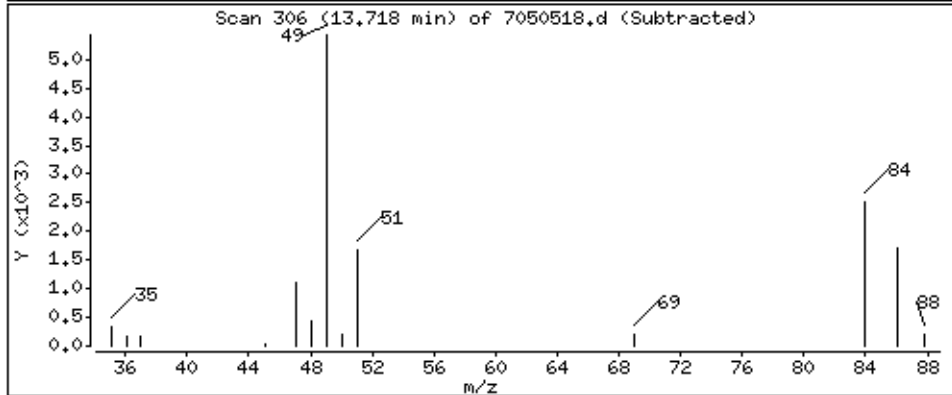
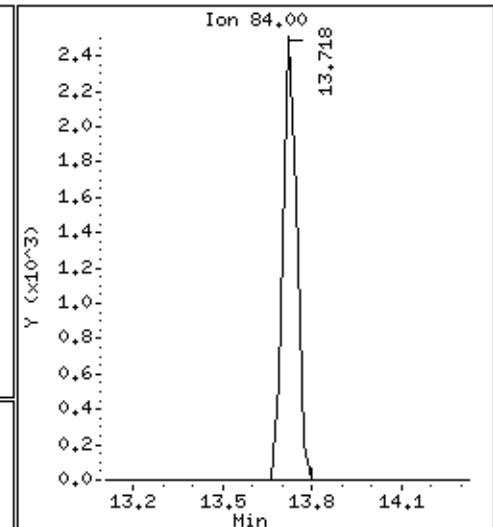
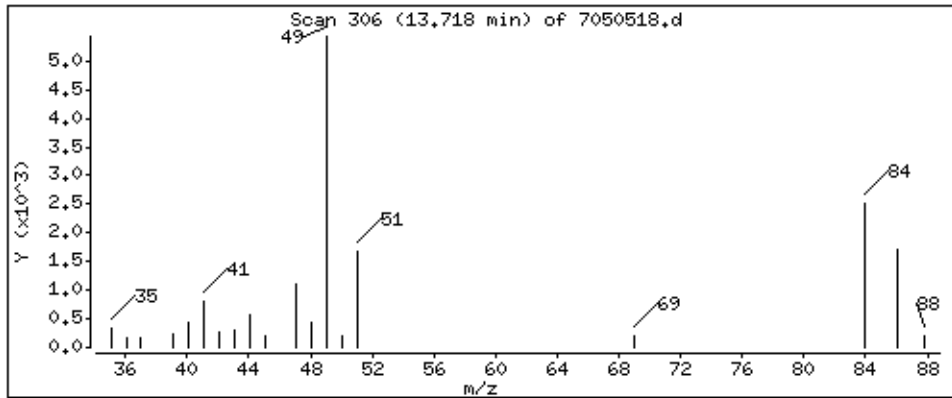
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

23 Methylene Chloride

Concentration: 0.5134 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

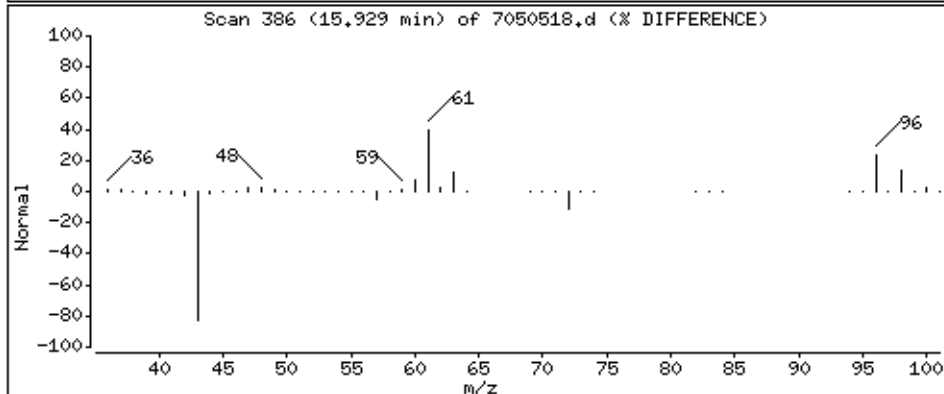
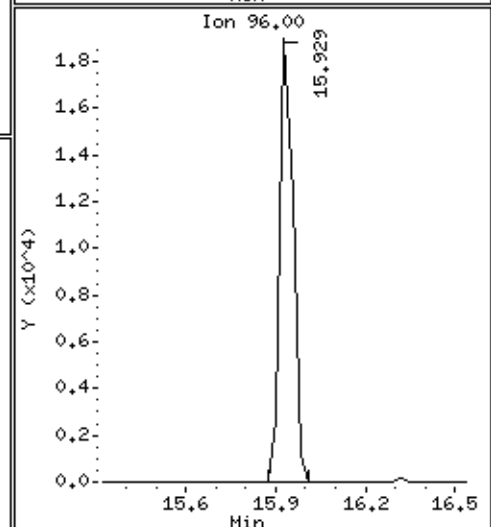
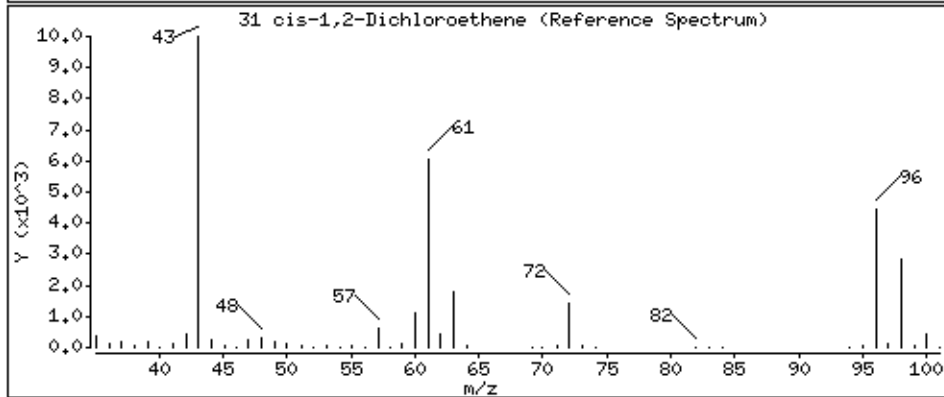
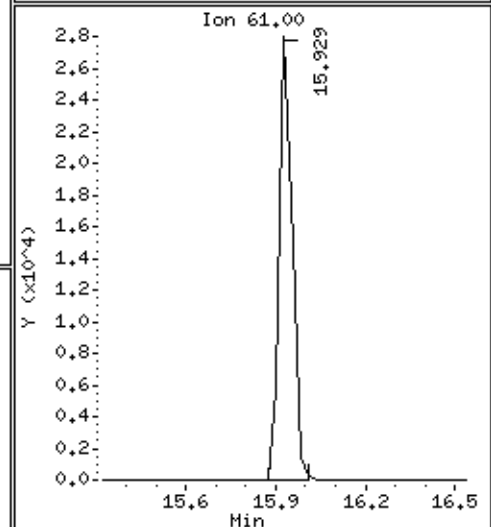
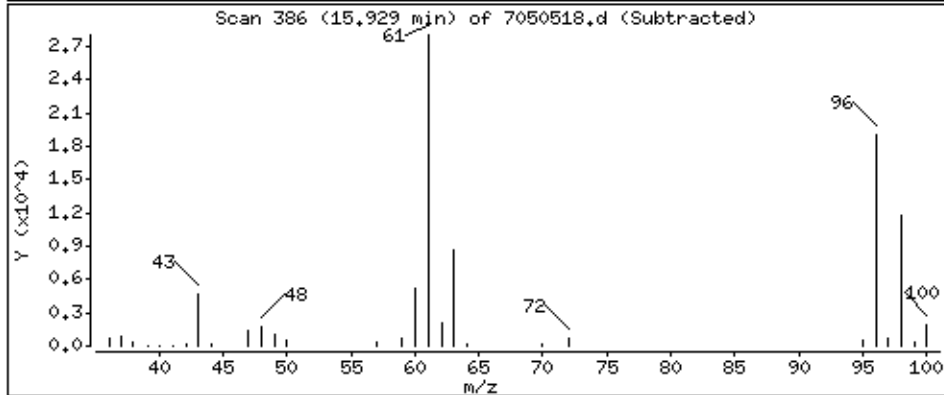
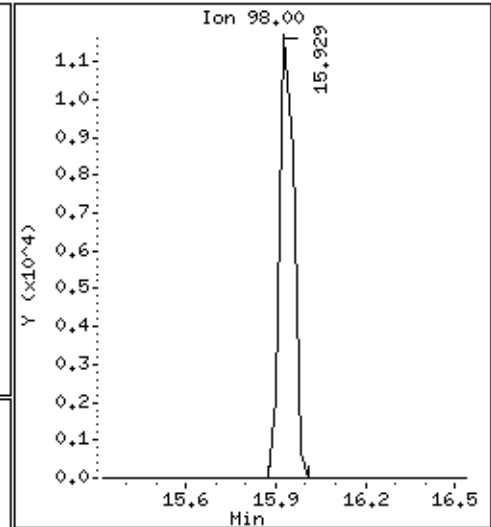
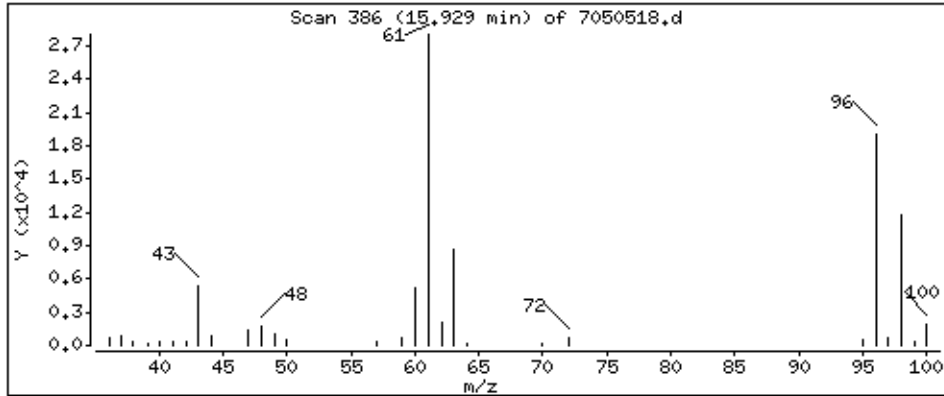
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

31 cis-1,2-Dichloroethene

Concentration: 2.671 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

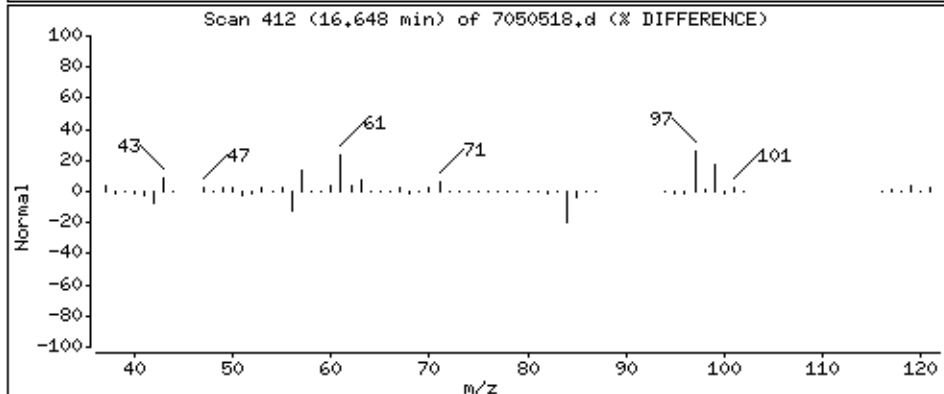
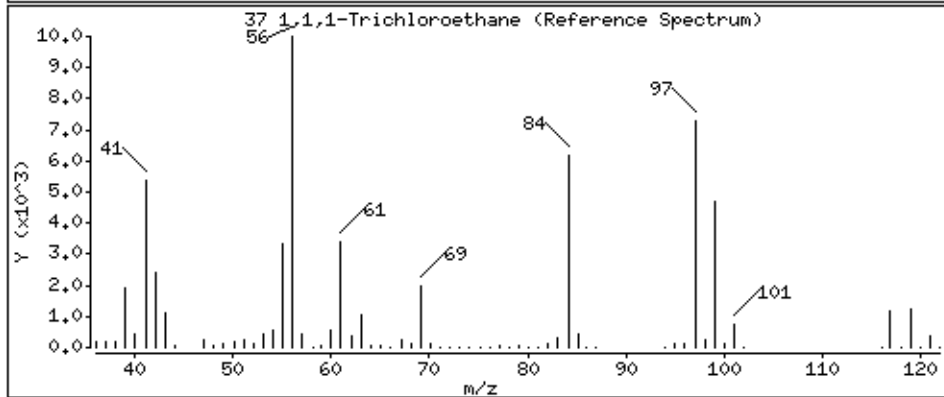
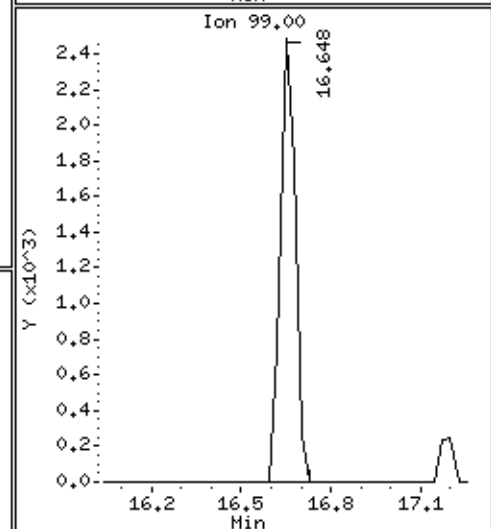
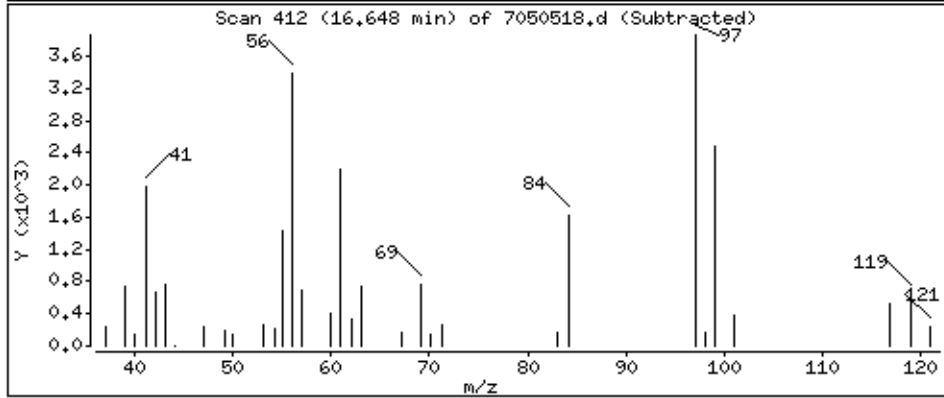
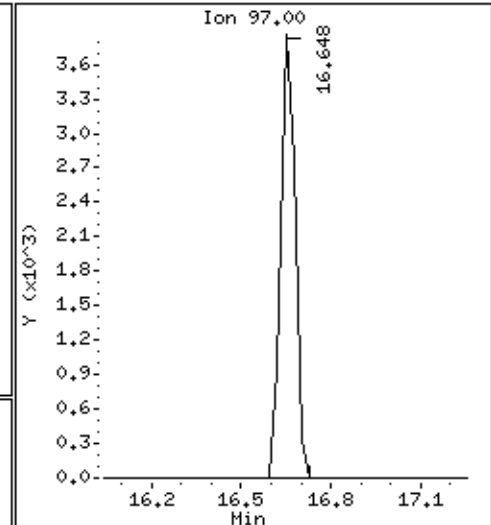
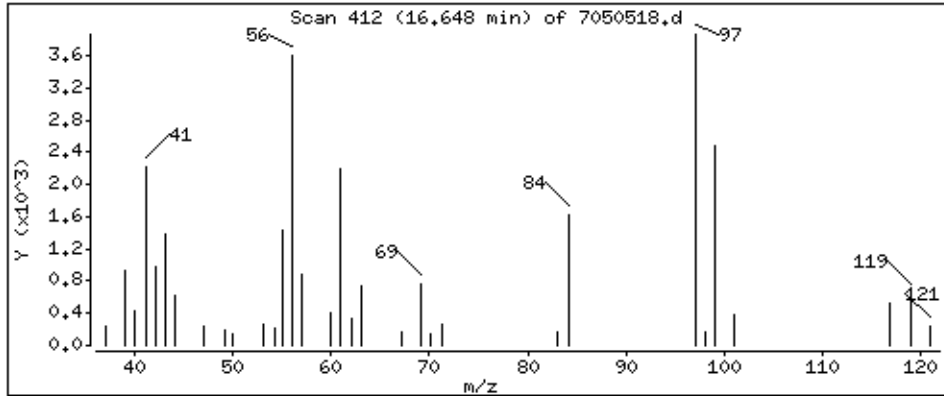
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

37 1,1,1-Trichloroethane

Concentration: 0.4212 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

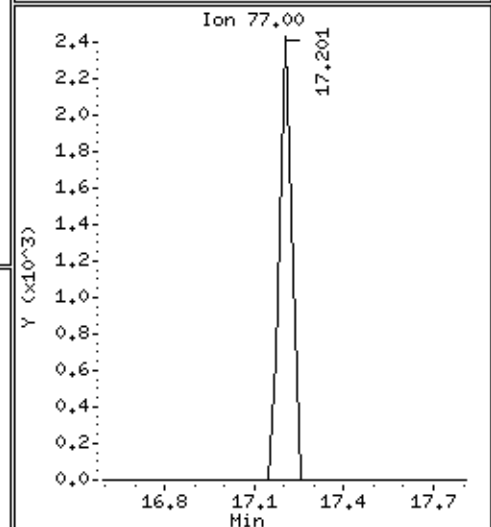
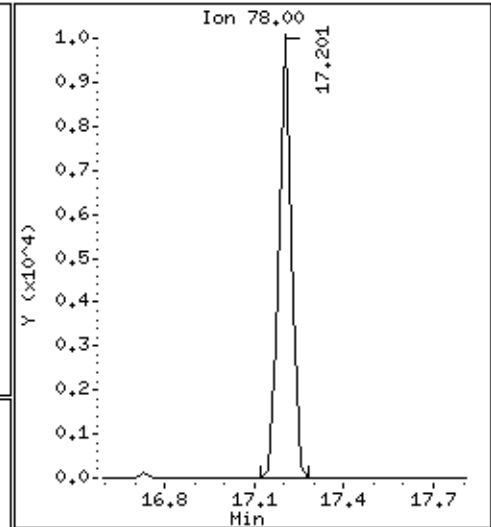
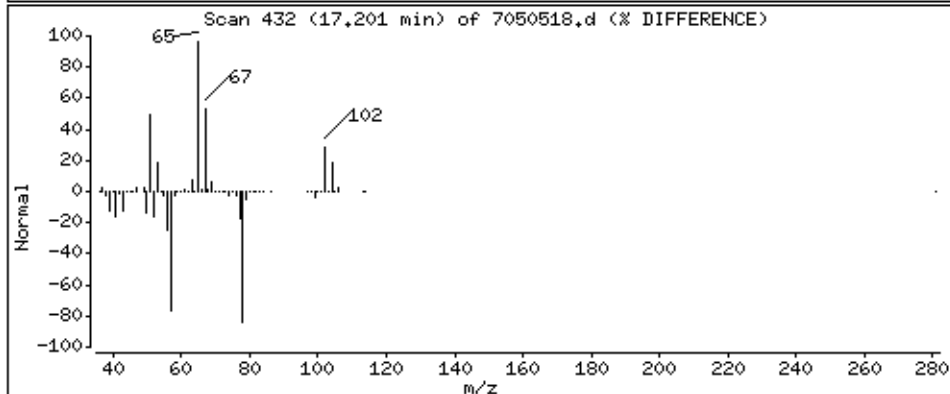
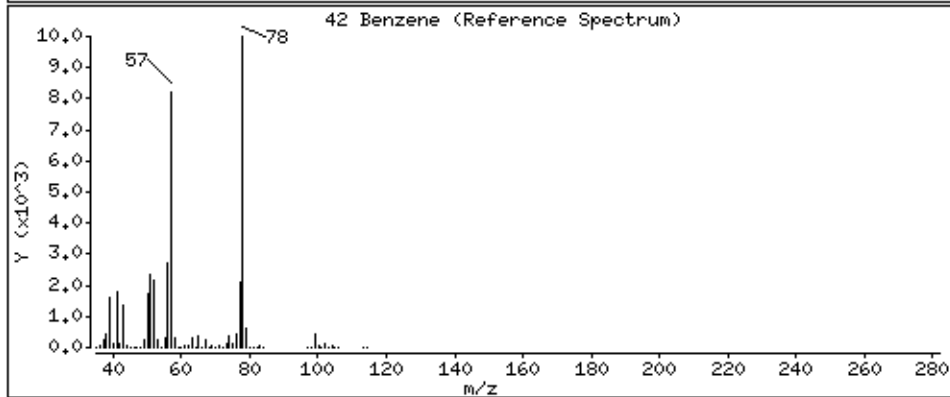
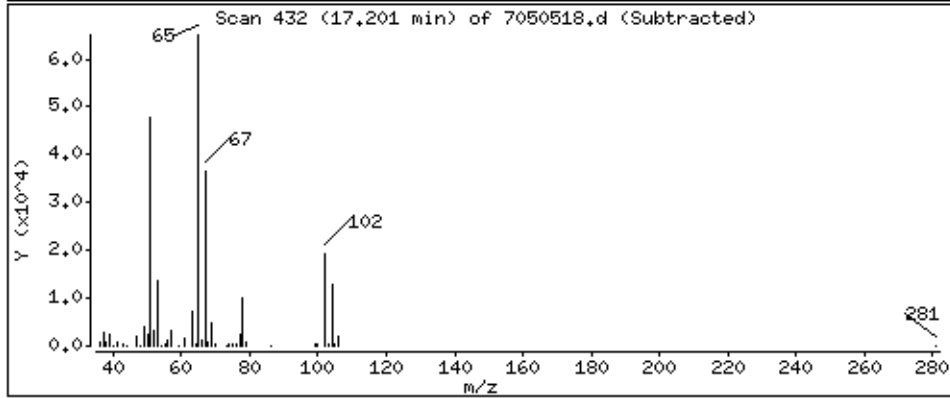
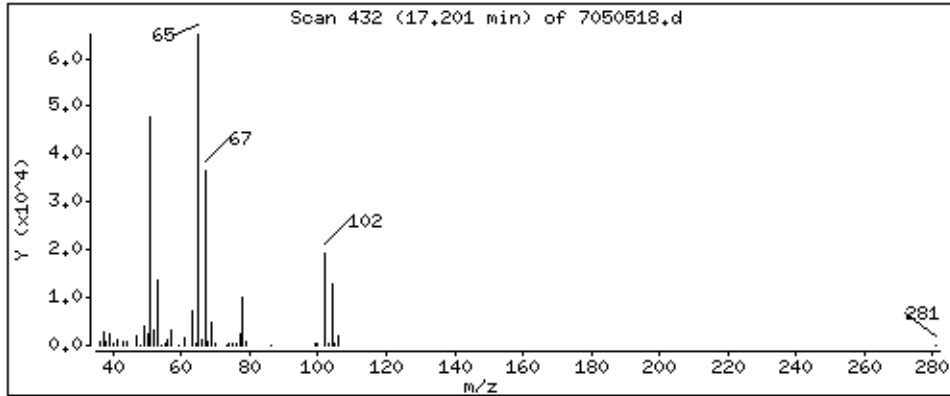
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

42 Benzene

Concentration: 0.4452 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

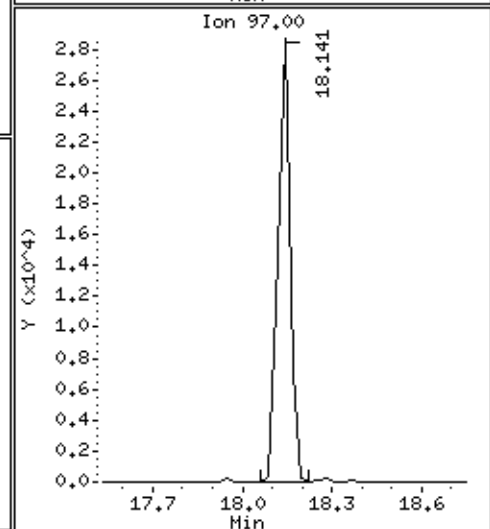
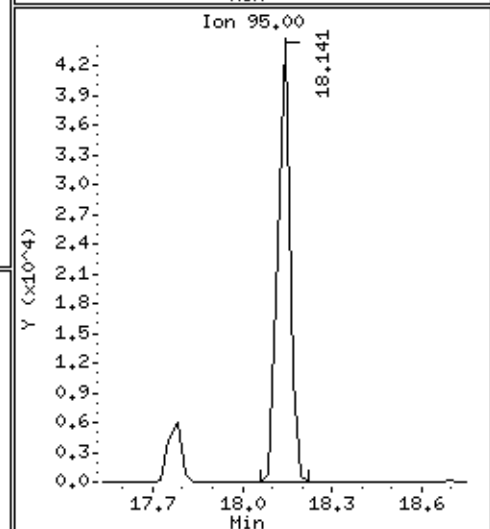
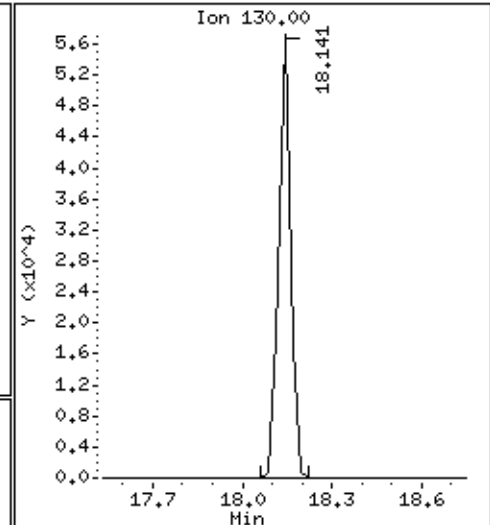
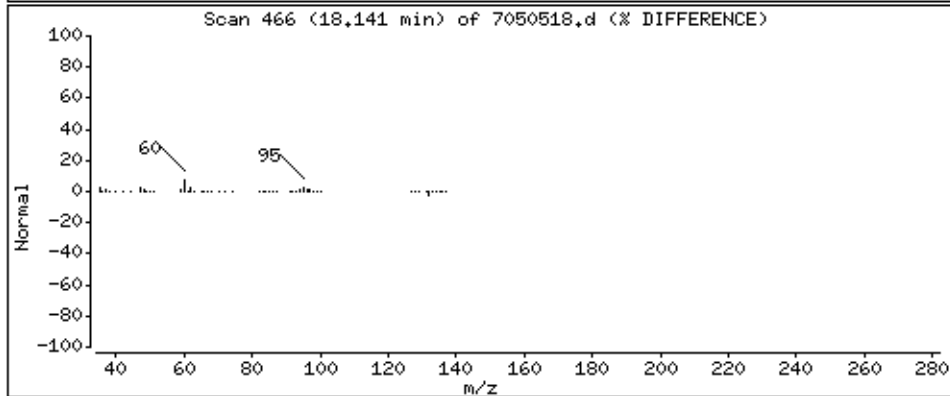
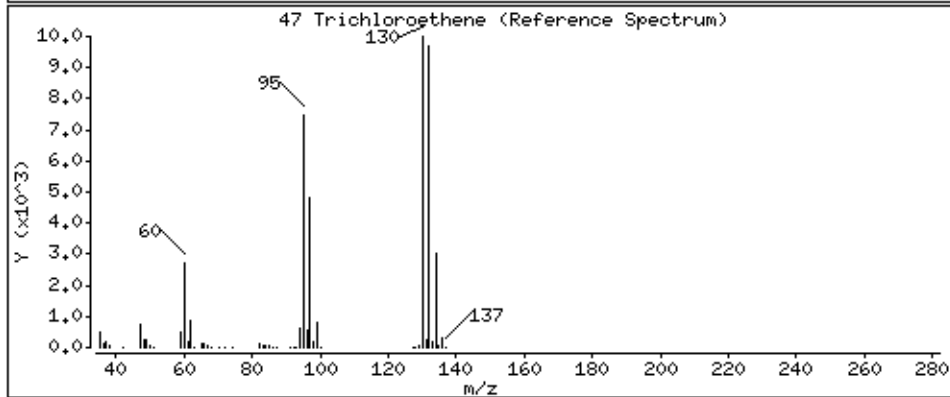
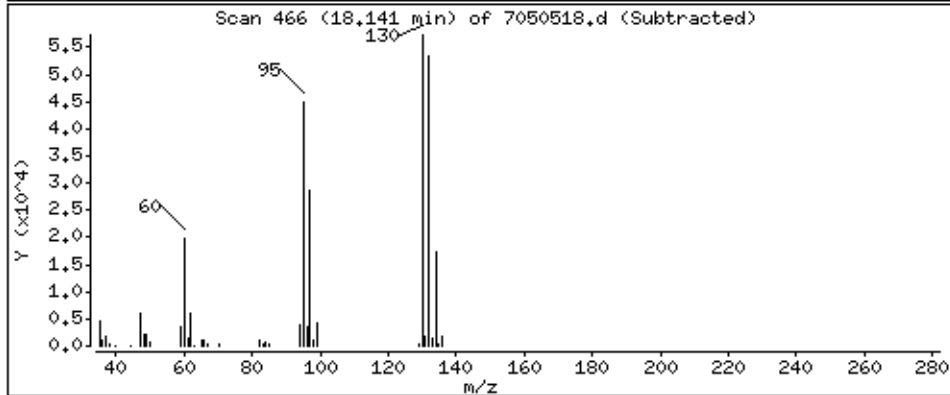
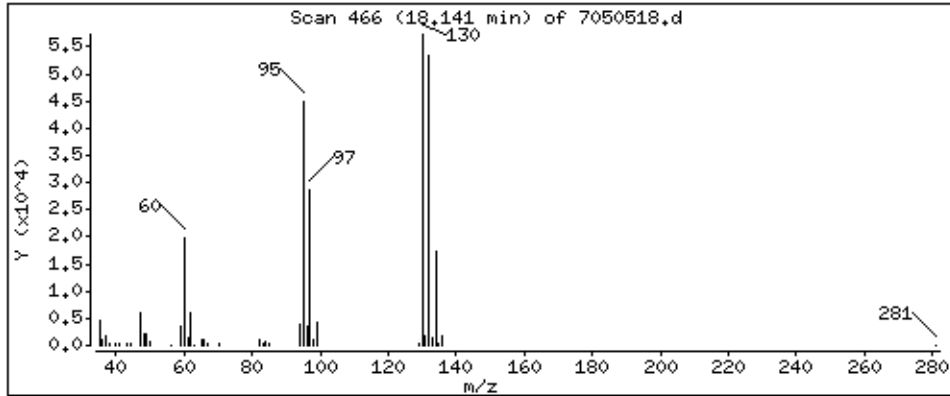
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

47 Trichloroethene

Concentration: 4.251 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

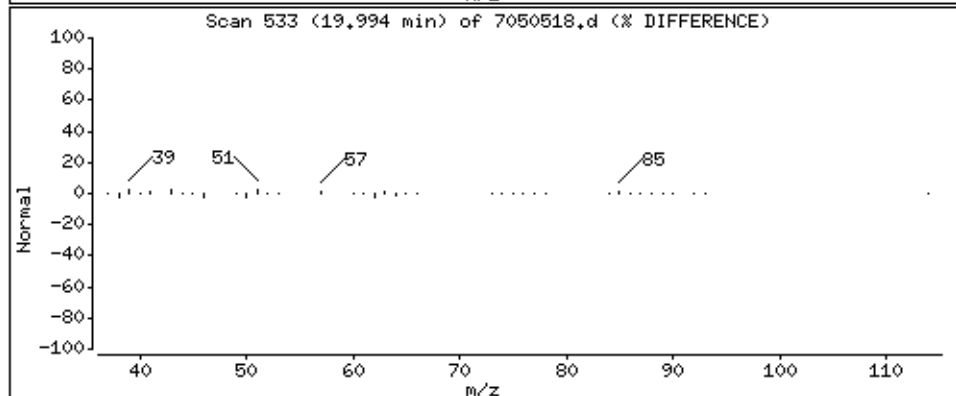
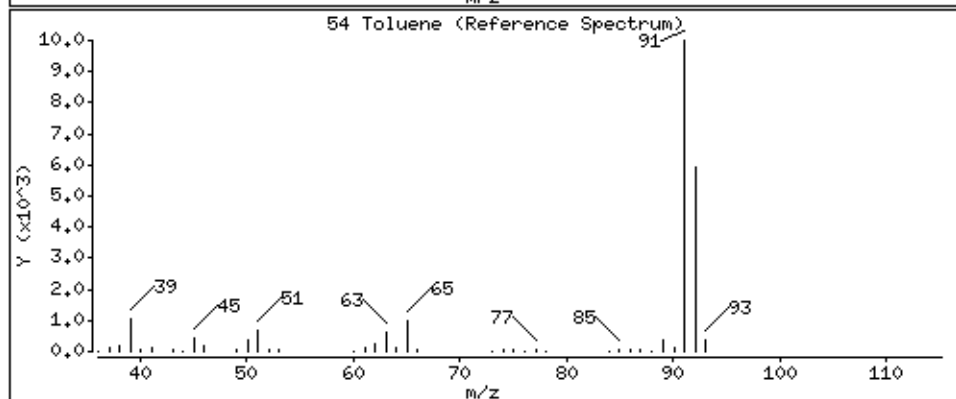
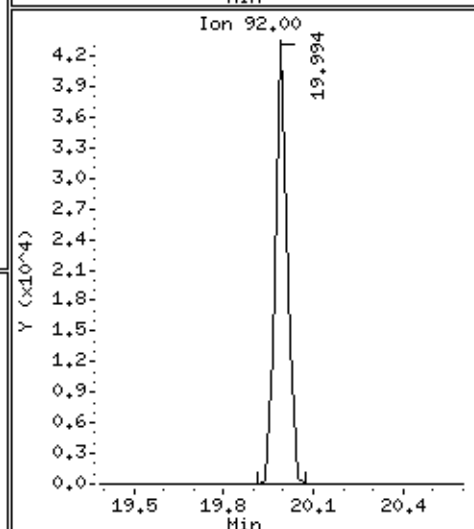
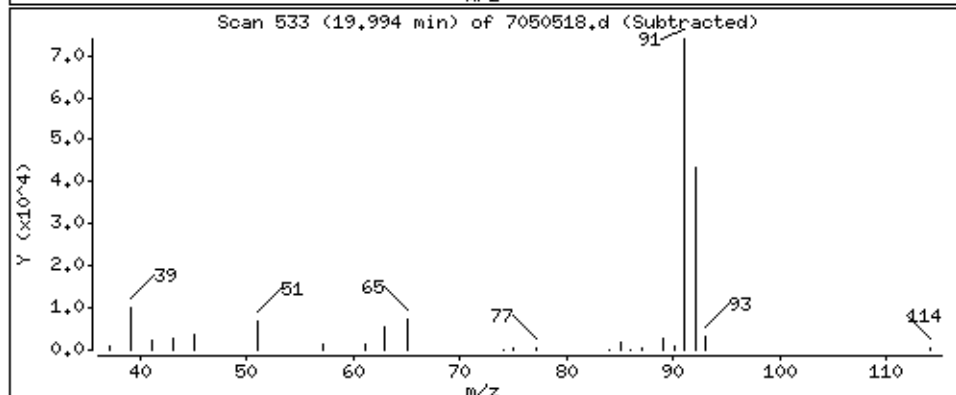
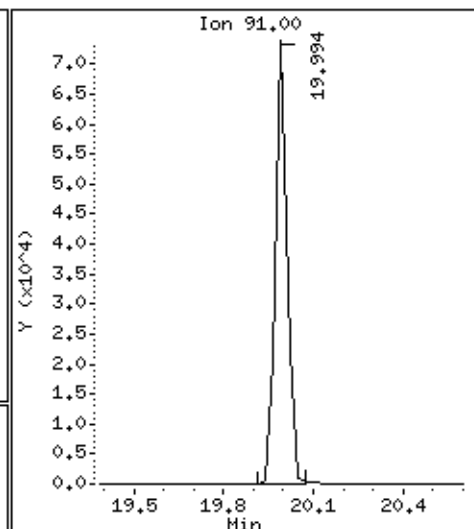
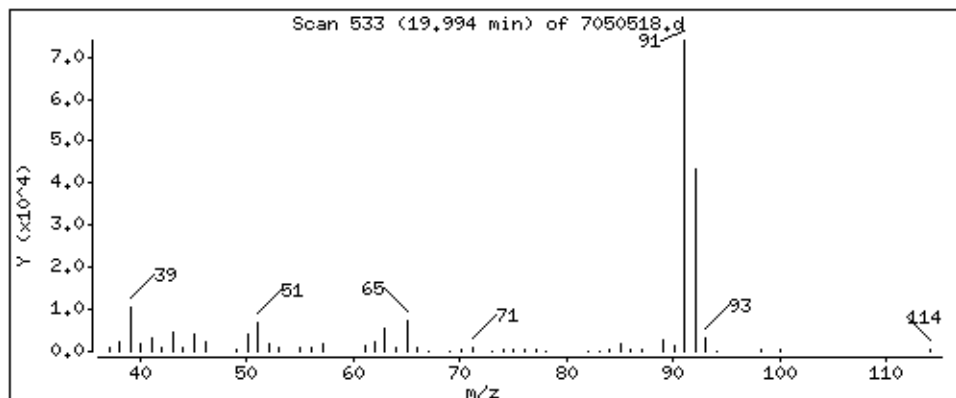
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

54 Toluene

Concentration: 2.433 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

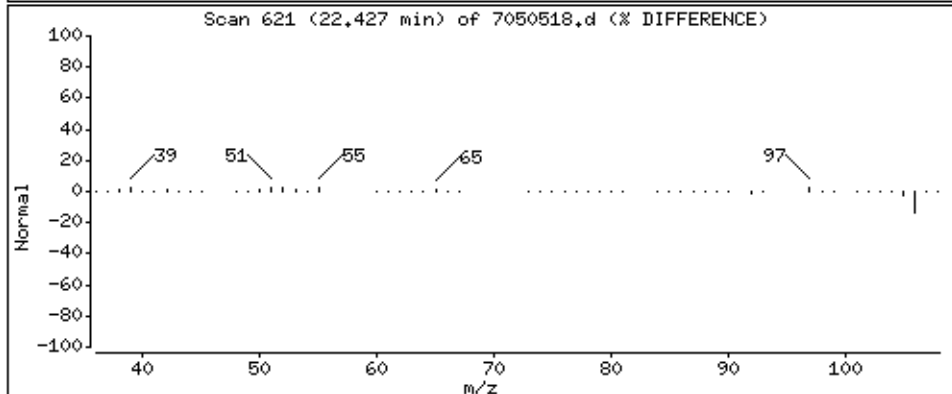
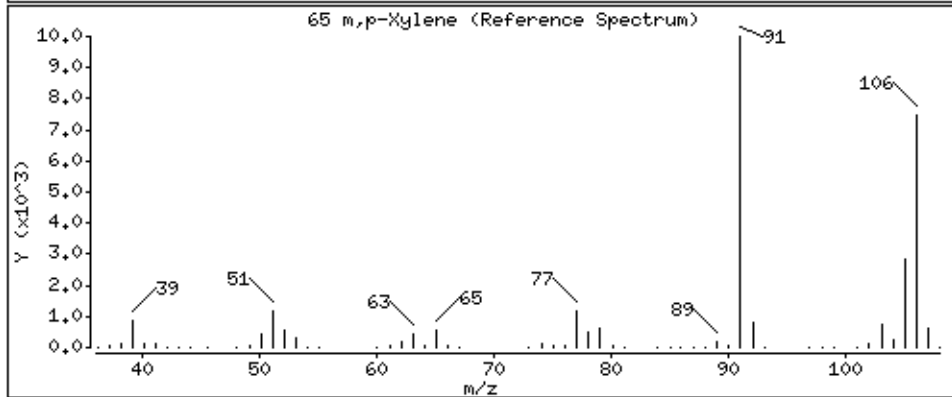
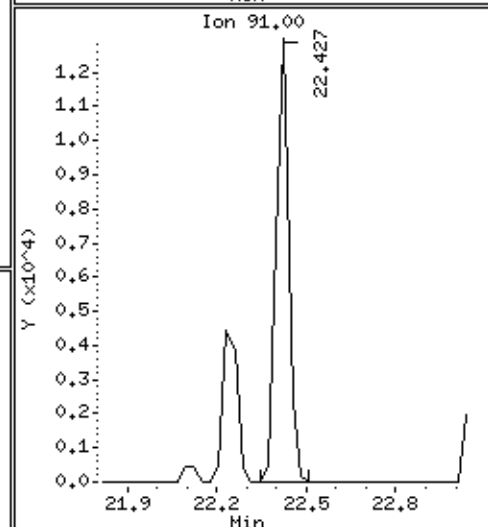
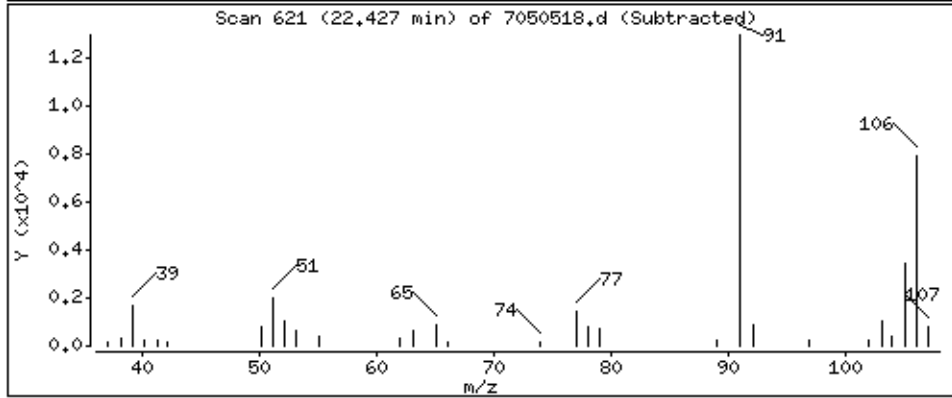
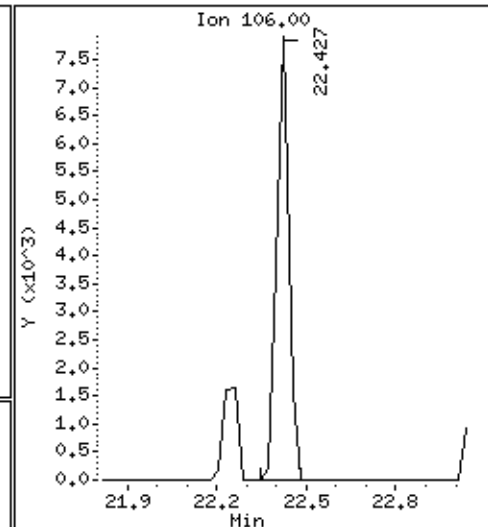
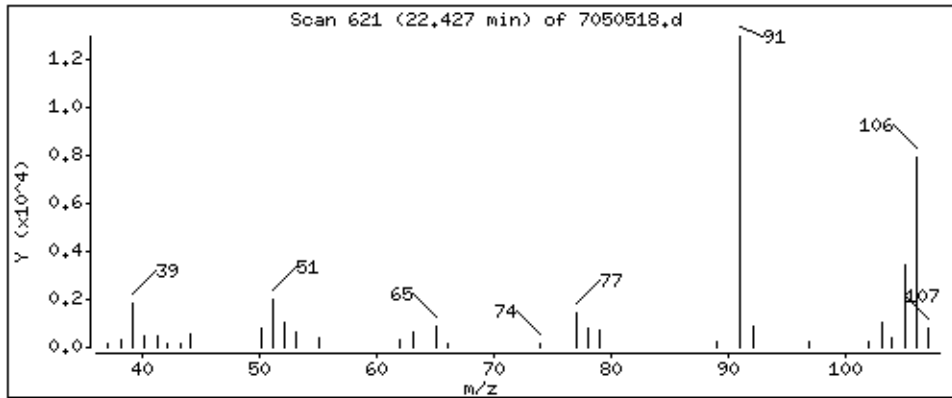
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

65 m,p-Xylene

Concentration: 0.4508 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

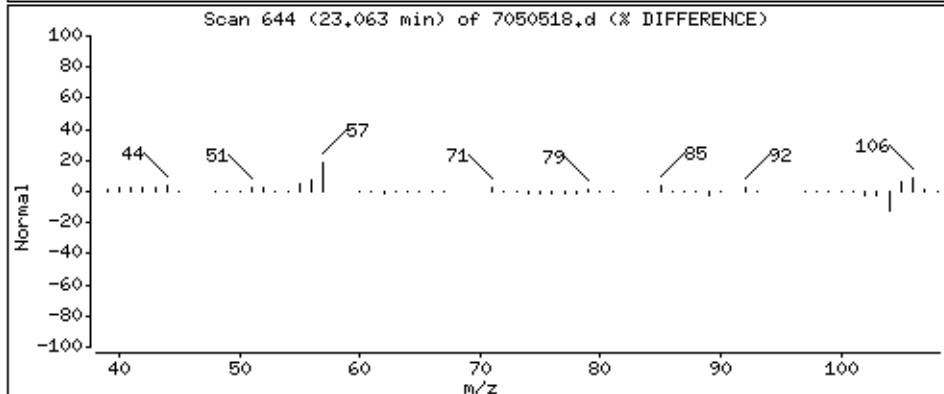
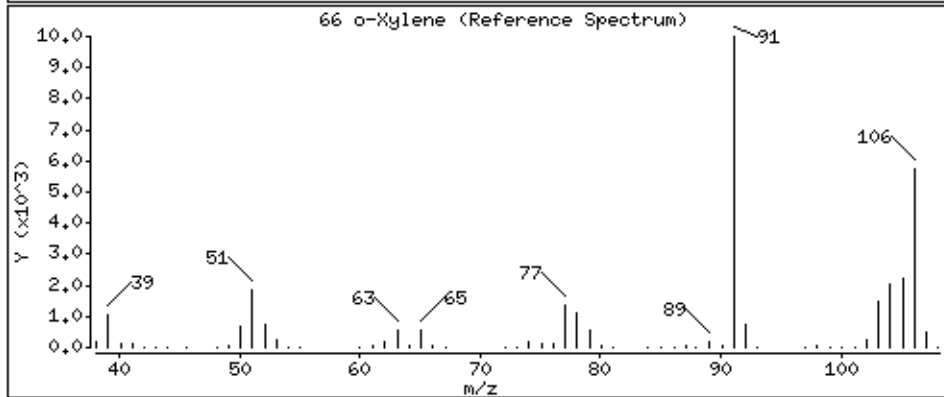
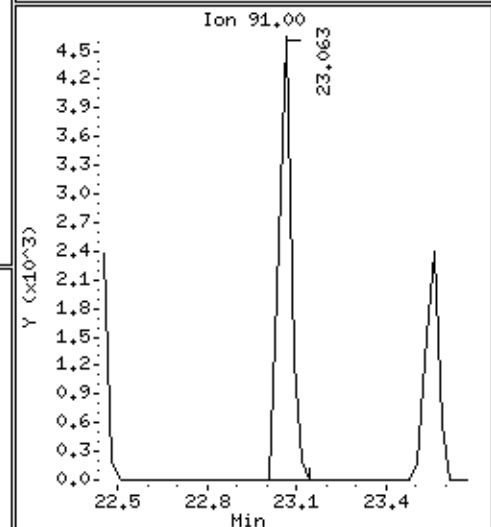
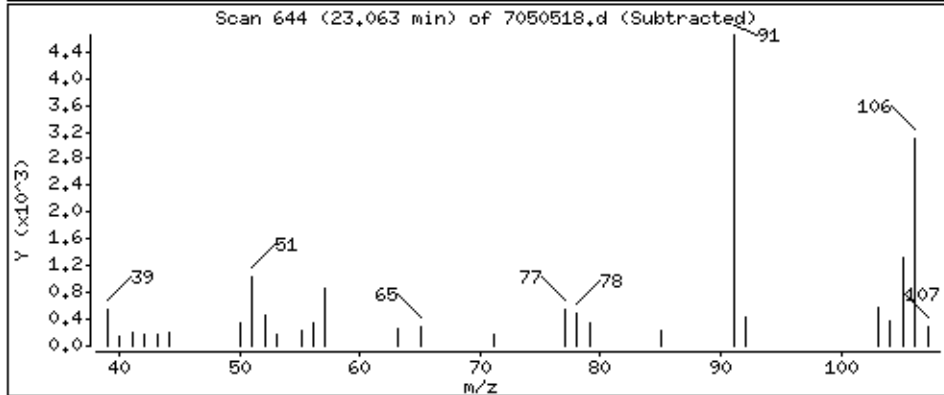
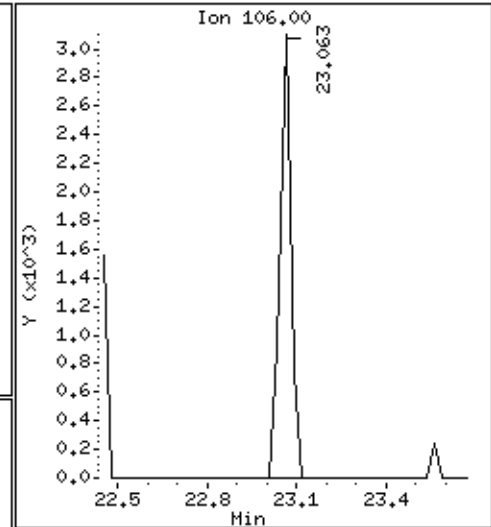
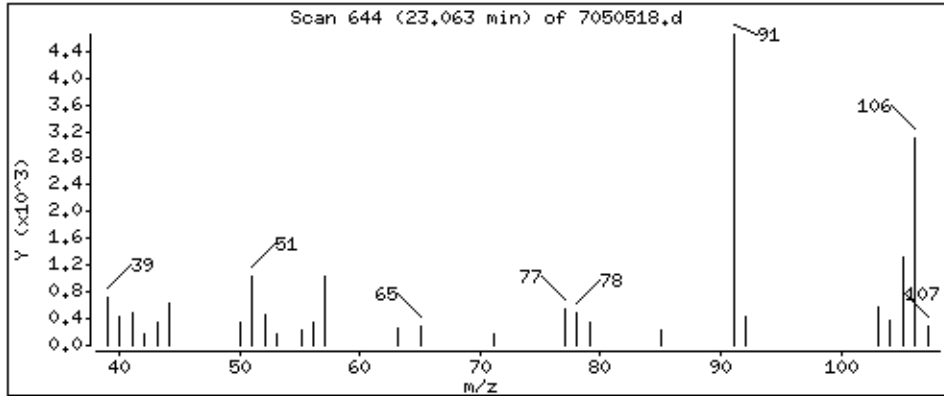
Operator: WM

Column phase: RTx-624

Column diameter: 0.32

66 o-Xylene

Concentration: 0.1838 PPBV



Date : 06-MAY-2005 04:29

Client ID:

Instrument: msd7.i

Sample Info: 500mL #33582

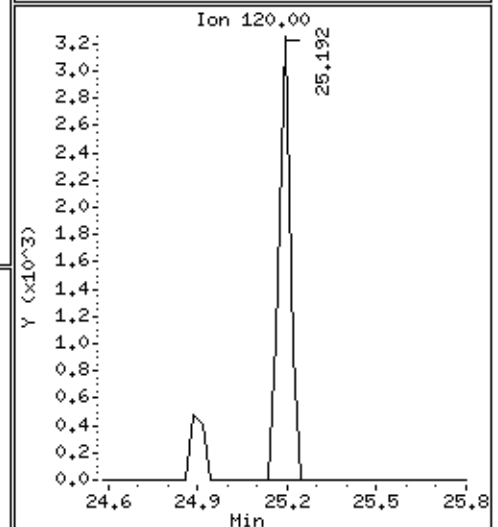
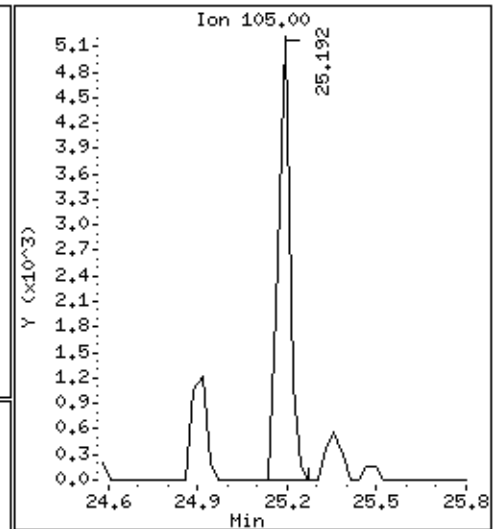
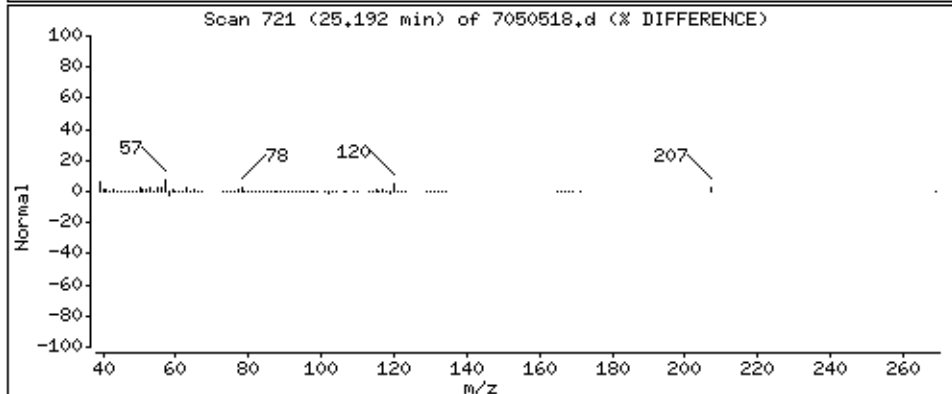
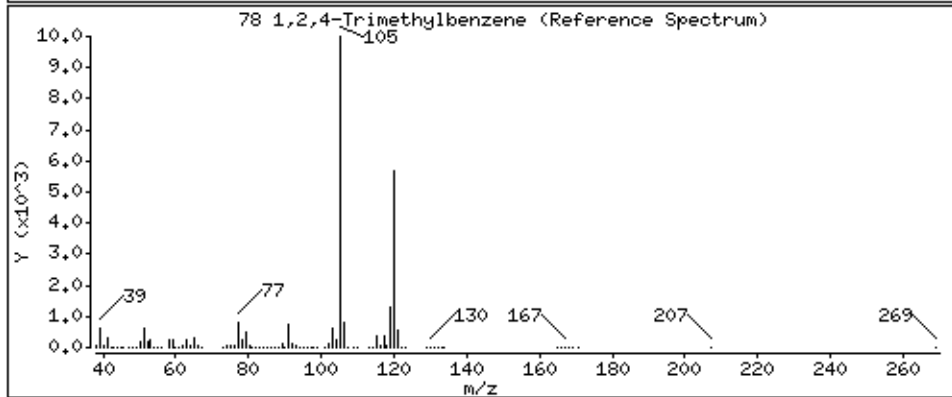
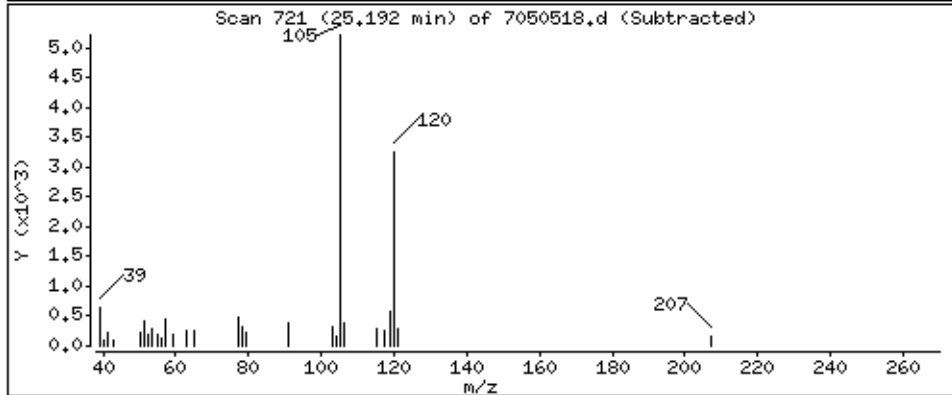
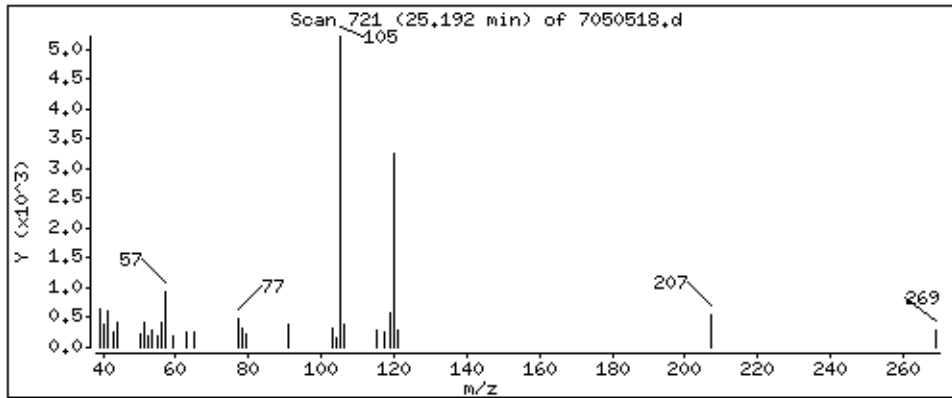
Operator: WM

Column phase: RTX-624

Column diameter: 0.32

78 1,2,4-Trimethylbenzene

Concentration: 0.1677 PPBV



AIR TOXICS LTD.

Client Sample ID: AA-R01

Lab ID#: 0504472-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050520	Date of Collection: 4/21/05
Dil. Factor:	1.75	Date of Analysis: 5/6/05 09:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.18	0.54	0.86	2.7
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.18	1.1	0.36	2.3
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Bromomethane	0.18	Not Detected	0.68	Not Detected
Chloroethane	0.18	Not Detected	0.46	Not Detected
Freon 11	0.18	0.22	0.98	1.2
Ethanol	0.88	4.9	1.6	9.3
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	7.5	2.1	18
2-Propanol	0.88	0.93	2.2	2.3
Carbon Disulfide	0.88	2.6	2.7	8.1
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.71	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	3.7	2.6	11
cis-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.95	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
Benzene	0.18	0.31	0.56	0.98
1,2-Dichloroethane	0.18	Not Detected	0.71	Not Detected
Heptane	0.88	Not Detected	3.6	Not Detected
Trichloroethene	0.18	Not Detected	0.94	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.88	Not Detected	3.2	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
Toluene	0.18	0.92	0.66	3.5
trans-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.95	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.3	Not Detected

AIR TOXICS LTD.

Client Sample ID: AA-R01

Lab ID#: 0504472-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050520	Date of Collection: 4/21/05
Dil. Factor:	1.75	Date of Analysis: 5/6/05 09:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Ethyl Benzene	0.18	0.32	0.76	1.4
m,p-Xylene	0.18	1.7	0.76	7.3
o-Xylene	0.18	0.88	0.76	3.8
Styrene	0.18	Not Detected	0.74	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
1,3,5-Trimethylbenzene	0.18	0.44	0.86	2.2
1,2,4-Trimethylbenzene	0.18	0.68	0.86	3.3
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.3	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

AMBIENT AIR METHOD T014/T015

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
---------------	-------------------------

RT	EXP	RT (REL	RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET	RANGE	RATIO
						ON-COL	FINAL			
==	=====	=====	=====	=====	=====	(PPBV)	(PPBV)	=====	=====	=====
* 34	Bromochloromethane					CAS #:		74-97-5		
16.317	16.317	(1.000)		130	214156	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)		128	165664			47.67-	107.67	77.36
16.317	16.317	(1.000)		49	393458			141.21-	201.21	183.72

* 46	1,4-Difluorobenzene					CAS #:		540-36-3		
17.782	17.782	(1.000)		114	946087	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)		88	116524			0.00-	42.60	12.32

* 62	Chlorobenzene-d5					CAS #:		3114-55-4		
22.123	22.123	(1.000)		117	839473	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)		82	368523			13.88-	73.88	43.90

\$ 41	1,2-Dichloroethane-d4					CAS #:		17060-07-0		
17.202	17.202	(1.054)		65	200697	9.77352	9.774	80.00-	120.00	100.00
17.202	17.202	(1.054)		67	112755			39.84-	99.84	56.18

\$ 53	Toluene-d8					CAS #:		2037-26-5		
19.884	19.884	(1.118)		98	862131	9.92383	9.924	80.00-	120.00	100.00
19.884	19.884	(1.118)		70	75760			0.00-	38.58	8.79

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.884	19.884	(1.118)	100	586068			38.13-	98.13	67.98

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	507845	10.0511	10.051	80.00-	120.00	100.00
23.948	23.948	(1.082)	95	523819			73.19-	133.19	103.15
23.948	23.948	(1.082)	176	489596			66.66-	126.66	96.41

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.921	(0.365)	85	19958	0.30840	0.5397	80.00-	120.00	100.00
5.948	5.948	(0.365)	87	6044			1.94-	61.94	30.29

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	37699	0.64267	1.125	80.00-	120.00	100.00
7.303	7.303	(0.448)	52	12026			1.37-	61.37	31.90

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	6765	0.12494	0.2186	80.00-	120.00	100.00
11.036	11.036	(0.676)	103	4485			34.23-	94.23	66.31

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	54003	2.80929	4.916	80.00-	120.00	100.00
12.031	12.031	(0.737)	43	12629			0.00-	47.77	23.39
12.031	12.031	(0.737)	46	21216			10.78-	70.78	39.29

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	317079	4.28172	7.493	80.00-	120.00	100.00
12.833	12.833	(0.786)	58	95385			1.60-	61.60	30.08

20 2-Propanol						CAS #:	67-63-0		
13.248	13.220	(0.812)	45	40548	0.53287	0.9325	80.00-	120.00	100.00
13.220	13.220	(0.810)	43	9271			0.00-	45.32	22.87
13.248	13.220	(0.812)	59	1058			0.00-	33.28	2.61

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	120806	1.48920	2.606	80.00-	120.00	100.00

32 2-Butanone						CAS #:	78-93-3		
15.957	15.957	(0.978)	72	34281	2.10072	3.676	80.00-	120.00	100.00
15.957	15.957	(0.978)	43	234366			640.27-	700.27	683.65
15.957	15.957	(0.978)	57	15090			11.54-	71.54	44.02

42 Benzene						CAS #:	71-43-2		
17.202	17.202	(0.967)	78	20483	0.17514	0.3065	80.00-	120.00	100.00
17.202	17.202	(0.967)	77	4466			0.00-	51.60	21.80

				CONCENTRATIONS					
				ON-COL		FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	76217	0.52692	0.9221	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	44011			29.68-	89.68	57.74

64 Ethyl Benzene						CAS #:	100-41-4		
22.234	22.234	(1.005)	106	11961	0.18131	0.3173	80.00-	120.00	100.00
22.234	22.234	(1.005)	91	33758			252.96-	312.96	282.23

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	84794	0.95665	1.674	80.00-	120.00	100.00
22.427	22.427	(1.014)	91	142864			116.47-	176.47	168.48

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	38974	0.50593	0.8854	80.00-	120.00	100.00
23.063	23.063	(1.042)	91	69682			145.90-	205.90	178.79

75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	40826	0.25292	0.4426	80.00-	120.00	100.00
24.556	24.556	(1.110)	120	25266			30.56-	90.56	61.89

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	58526	0.38923	0.6812	80.00-	120.00	100.00
25.192	25.192	(1.139)	120	33309			27.10-	87.10	56.91

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050520.d
Lab Smp Id: 0504472-06A
Analysis Type: VOA
Quant Type: ISTD
Operator: ea

Calibration Date: 05-MAY-2005
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-05may.b/t141501a.m

Misc Info: 7.0"Hg-5psi ERM,notics

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	273711	164227	383195	214156	-21.76
46 1,4-Difluorobenze	1190742	714445	1667039	946087	-20.55
62 Chlorobenzene-d5	1102533	661520	1543546	839473	-23.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0504472-06A	
Level: LOW	Operator: ea
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 7.0"Hg-5psi	ERM,notics

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.774	97.74	70-130
\$ 53 Toluene-d8	10.000	9.924	99.24	70-130
\$ 71 Bromofluorobenzene	10.000	10.051	100.51	70-130

Date : 06-MAY-2005 09:56

Client ID:

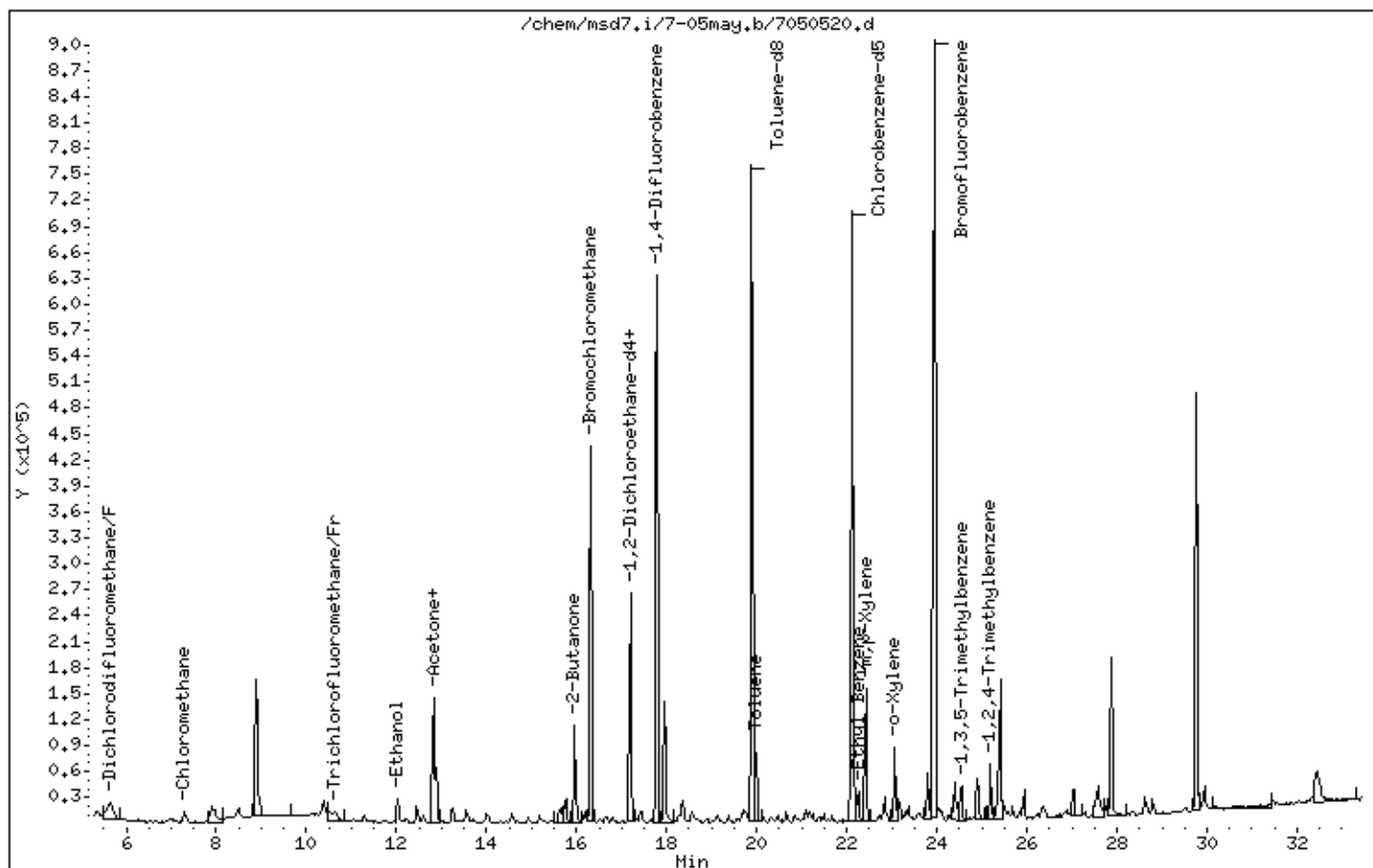
Instrument: msd7.i

Sample Info: 500mL #14013

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

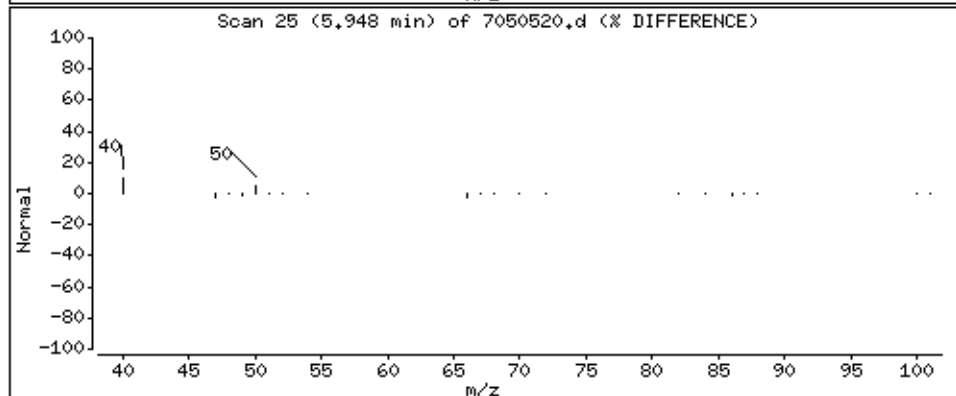
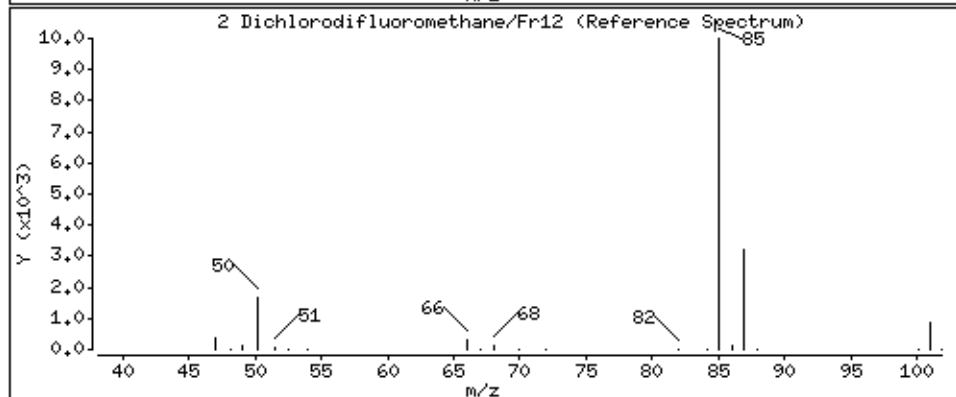
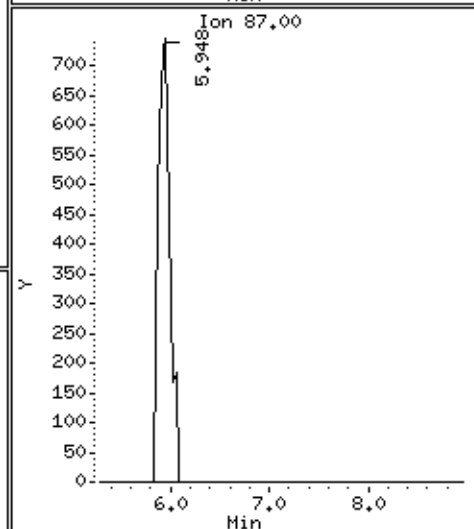
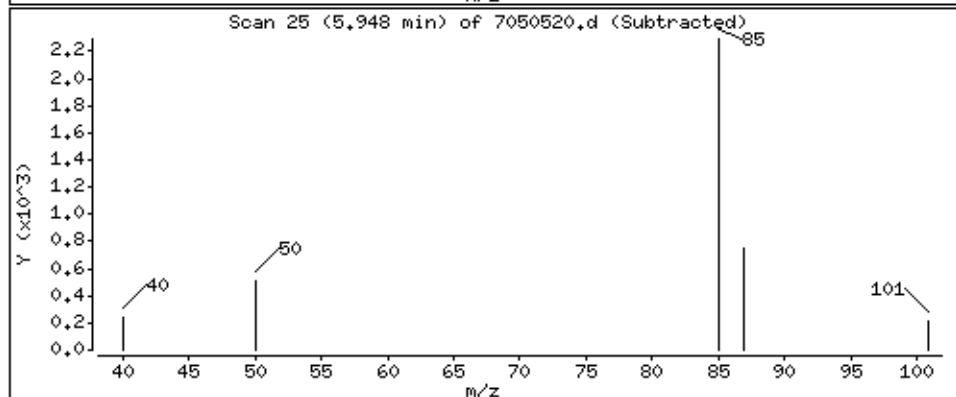
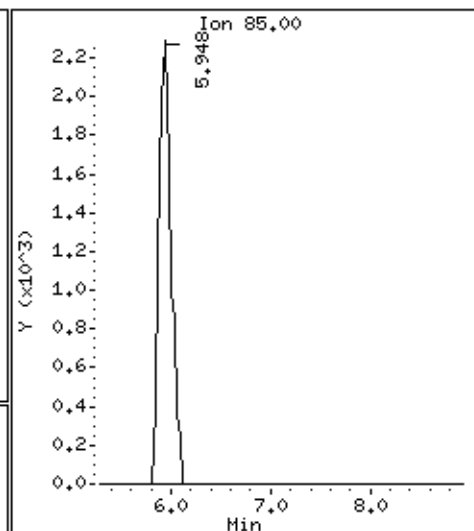
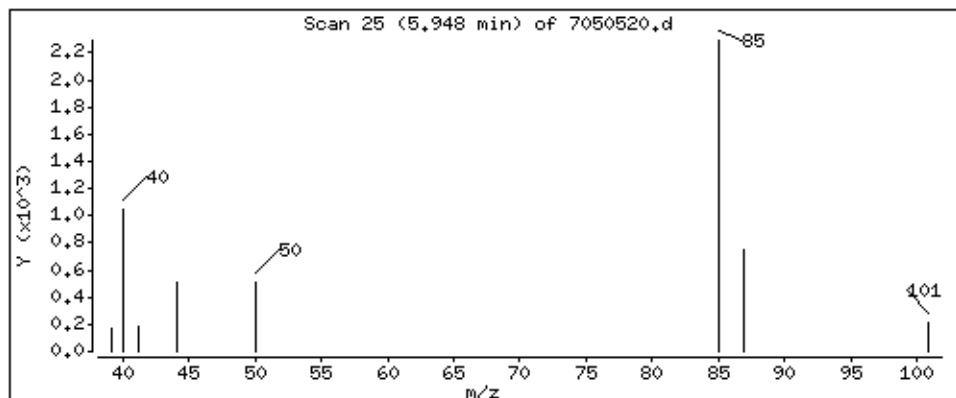
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

2 Dichlorodifluoromethane/Fr12

Concentration: 0.5397 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

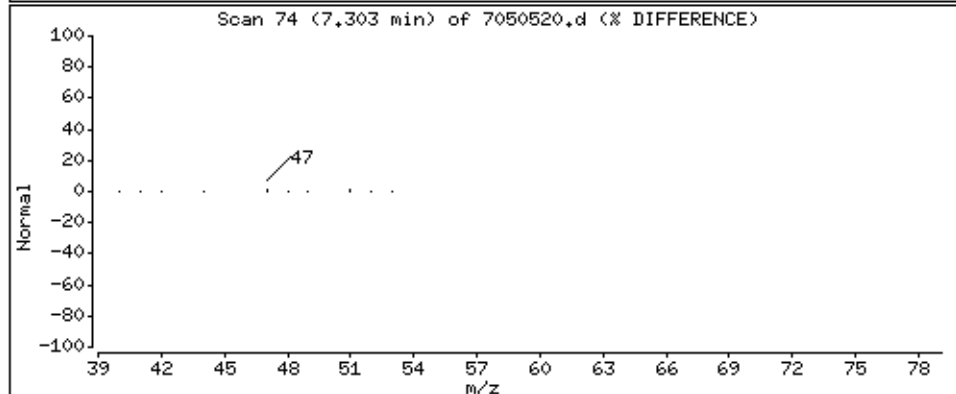
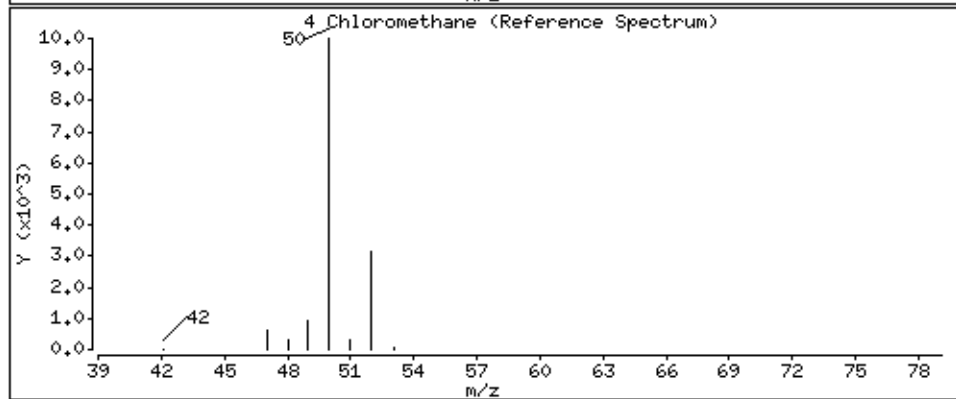
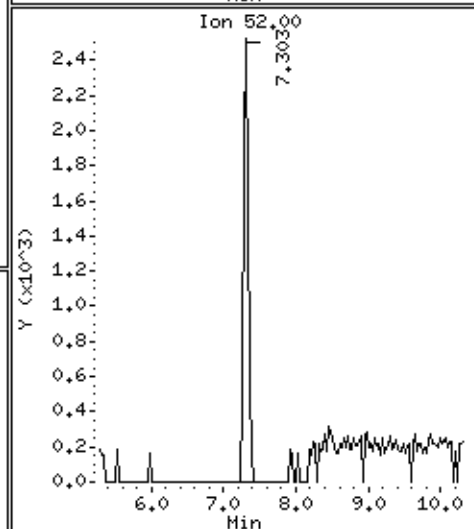
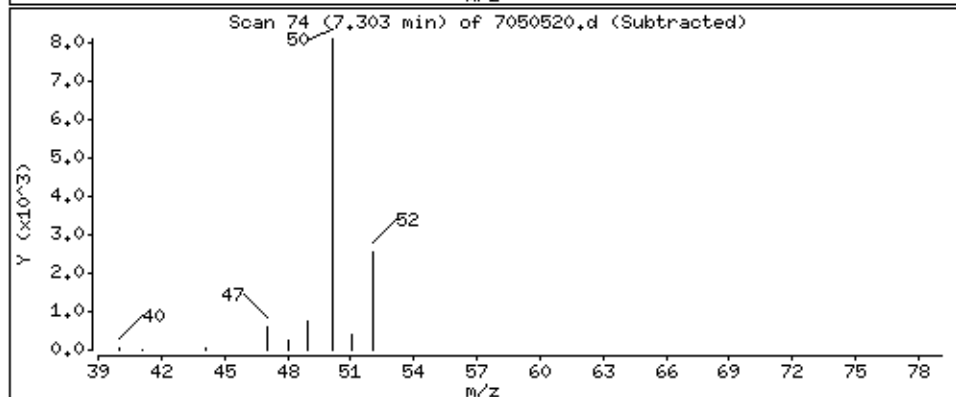
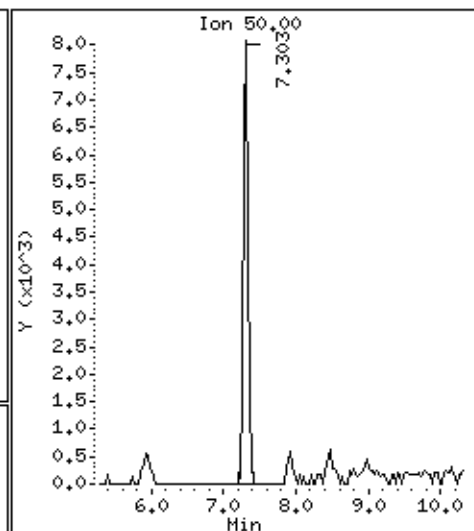
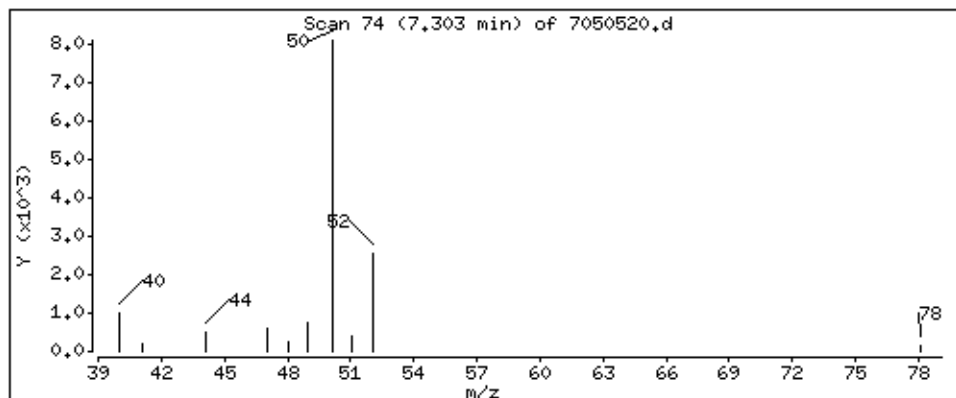
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

4 Chloromethane

Concentration: 1.125 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

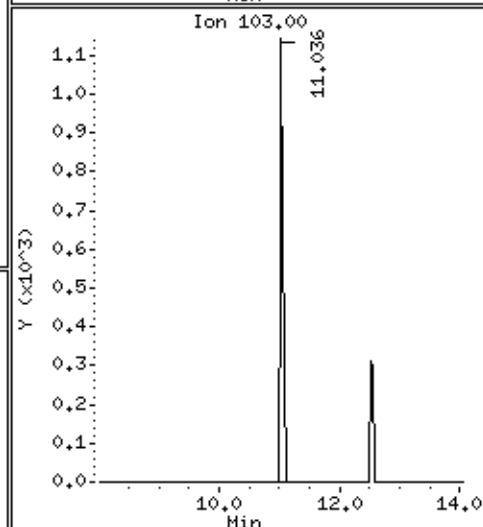
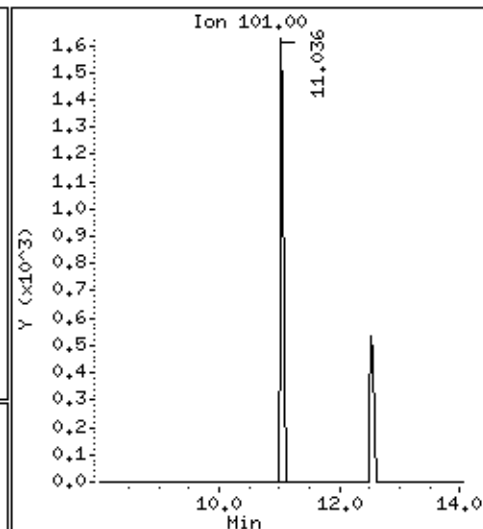
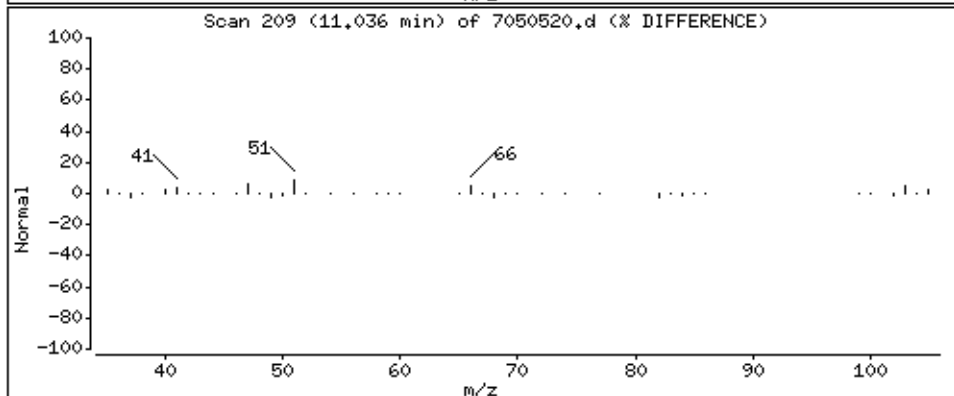
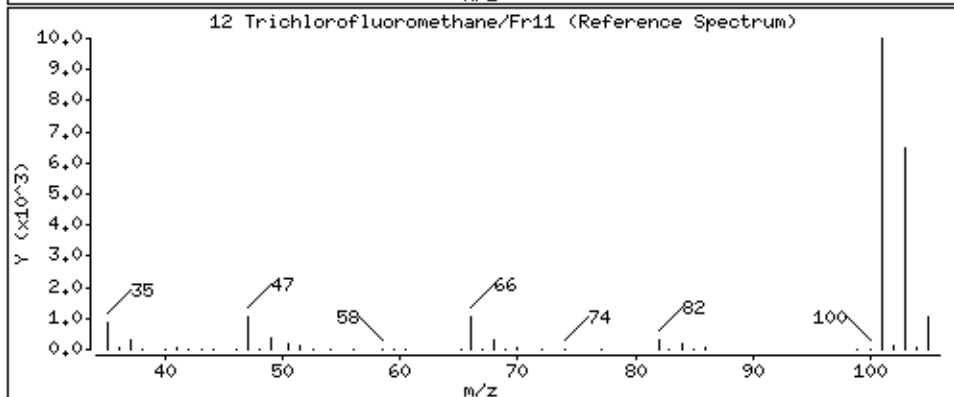
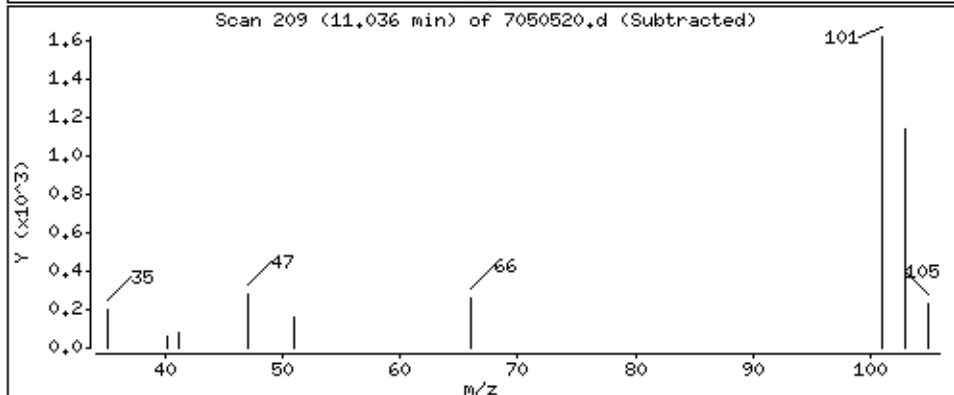
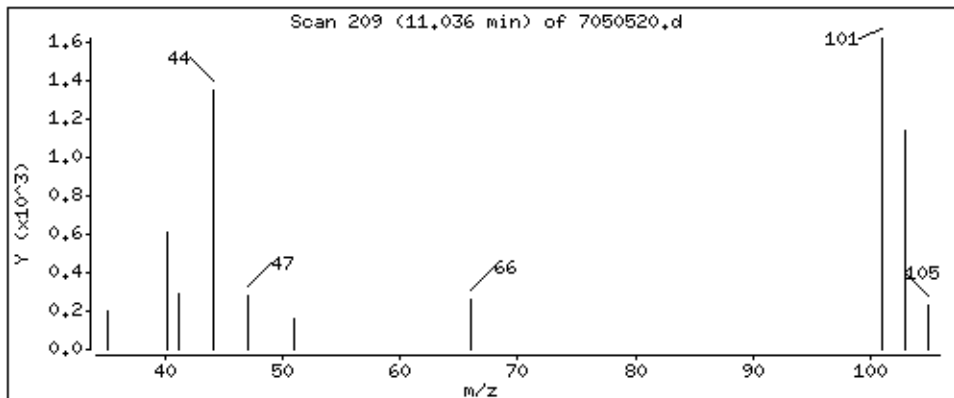
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

12 Trichlorofluoromethane/Fr11

Concentration: 0.2186 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

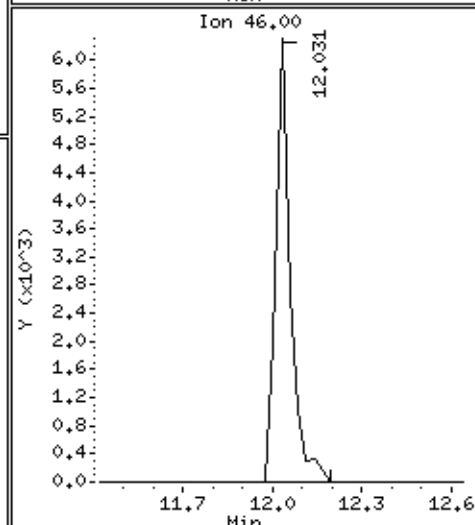
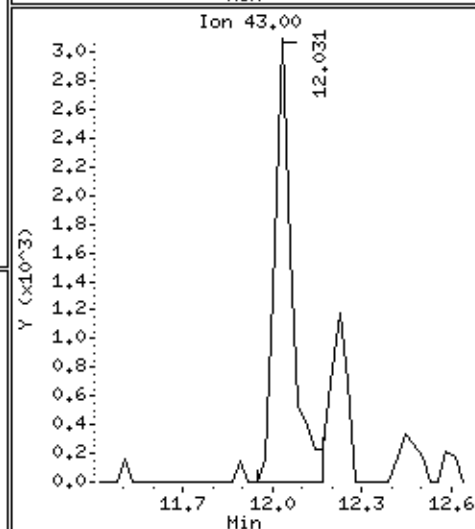
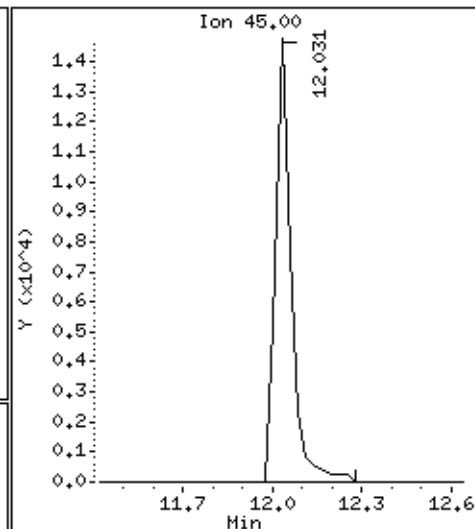
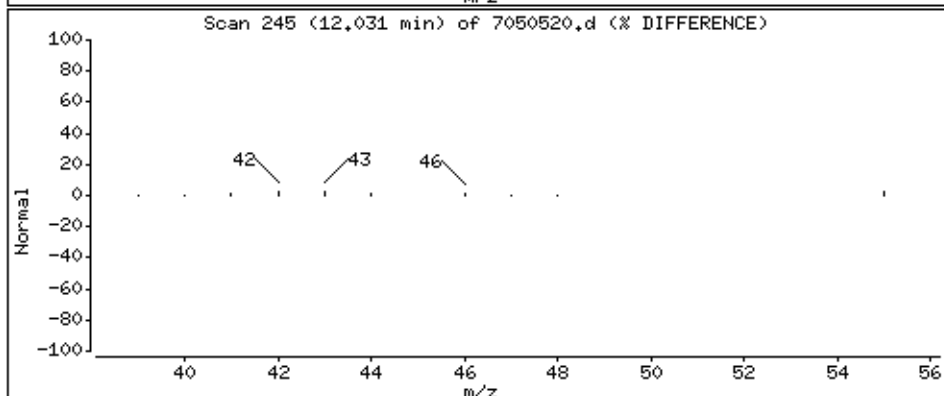
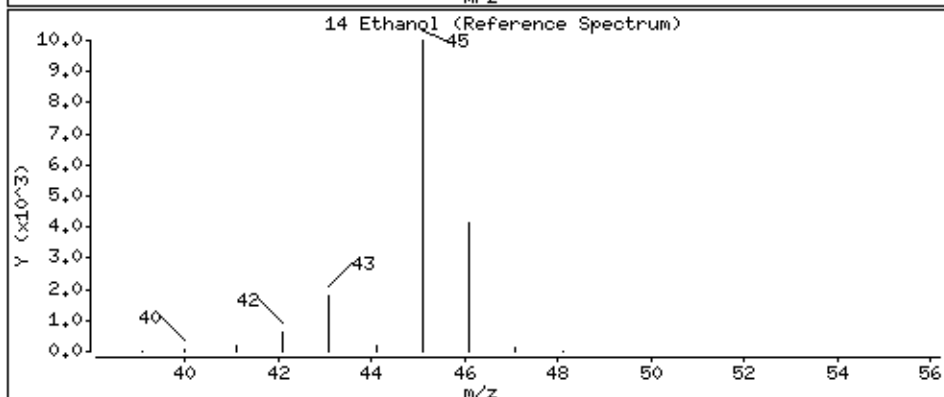
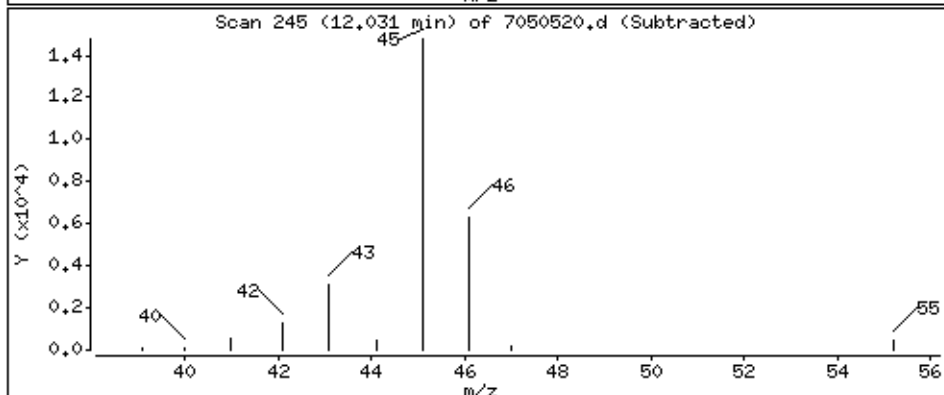
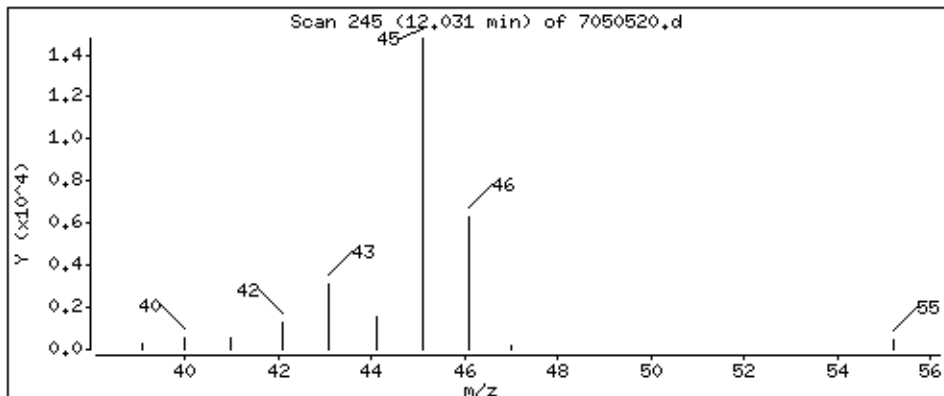
Operator: ea

Column phase: RTx-624

Column diameter: 0.32

14 Ethanol

Concentration: 4.916 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

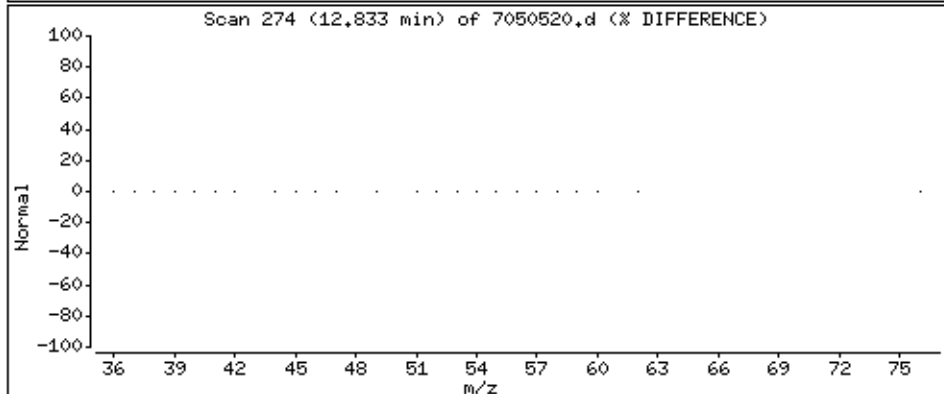
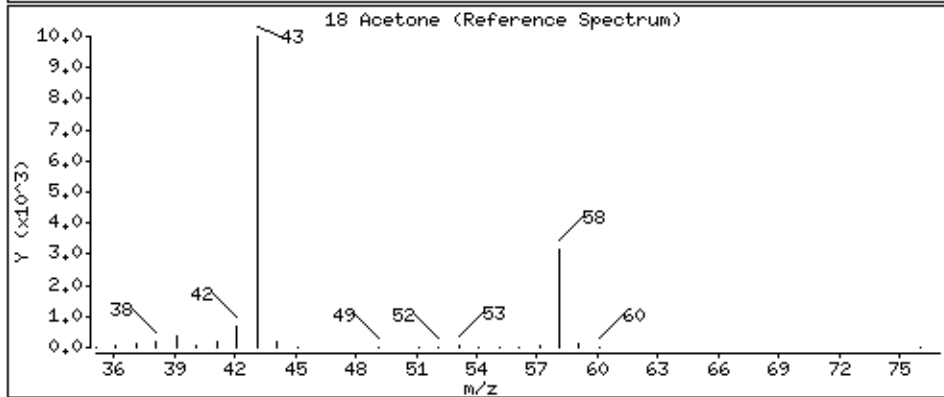
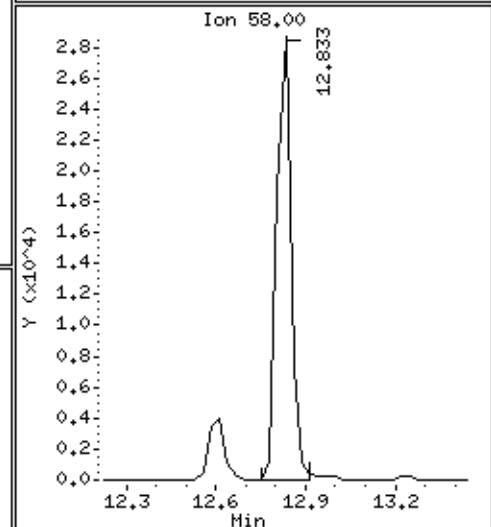
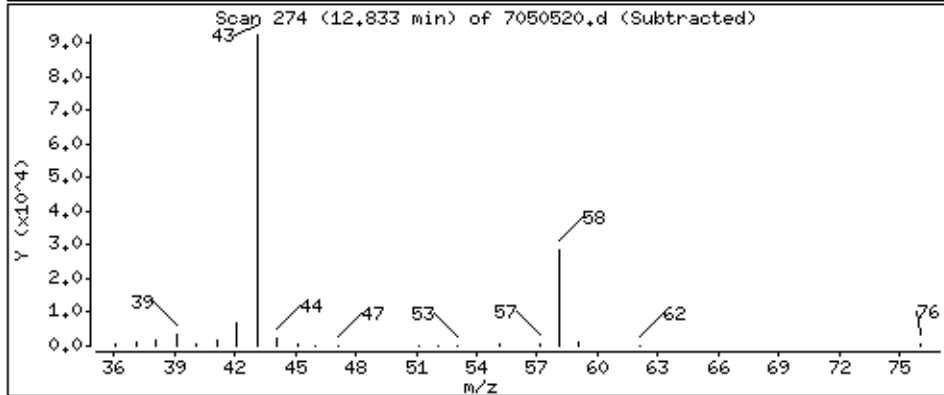
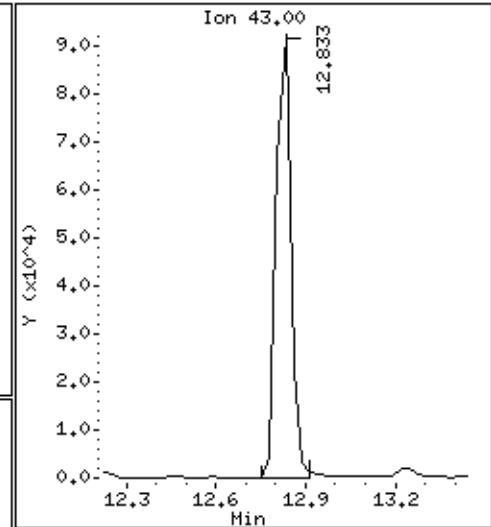
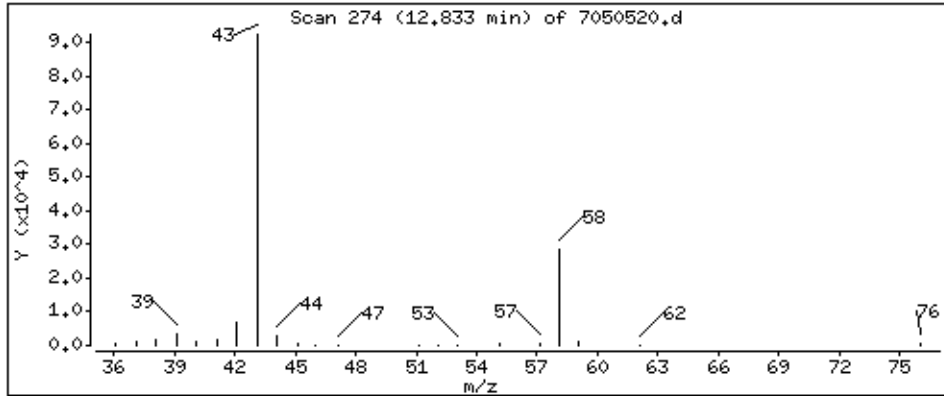
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

18 Acetone

Concentration: 7.493 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

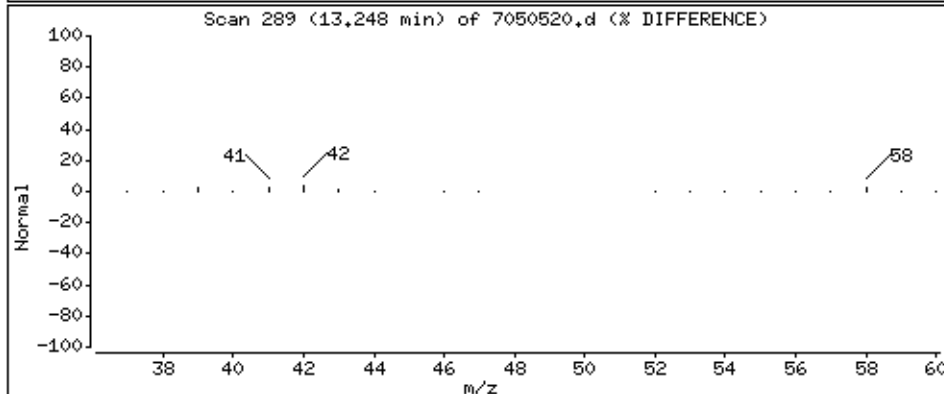
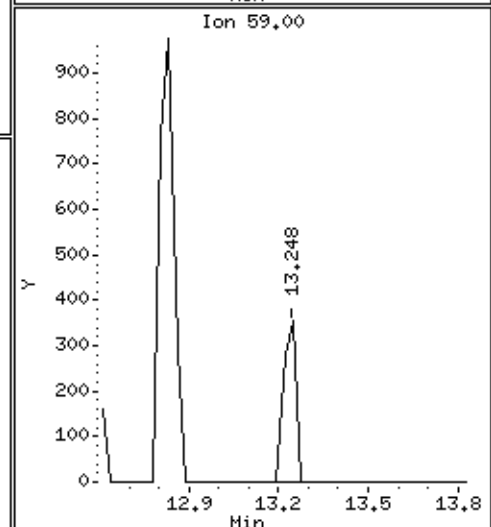
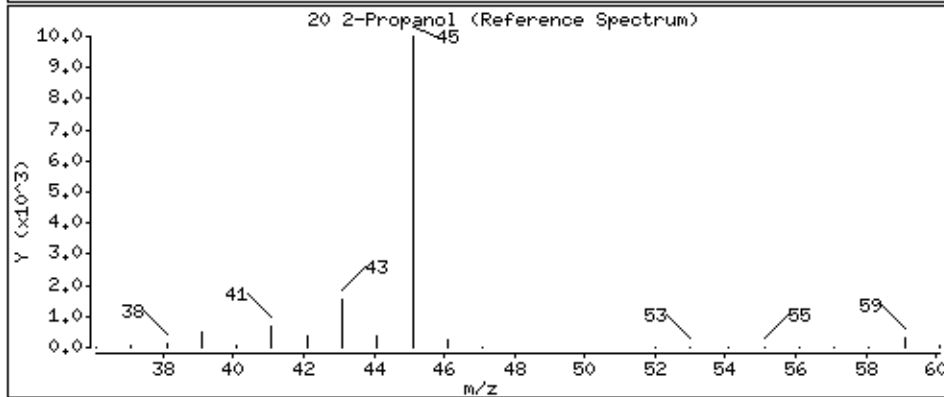
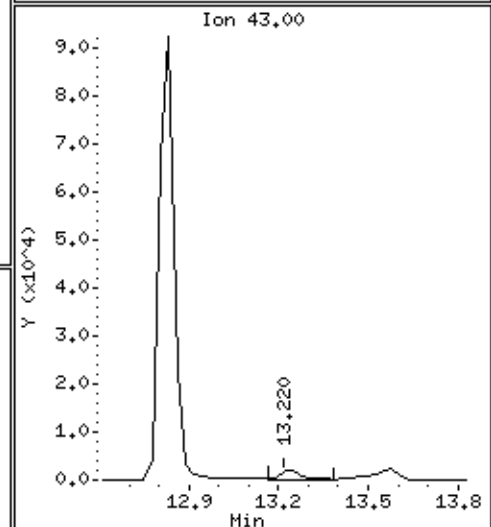
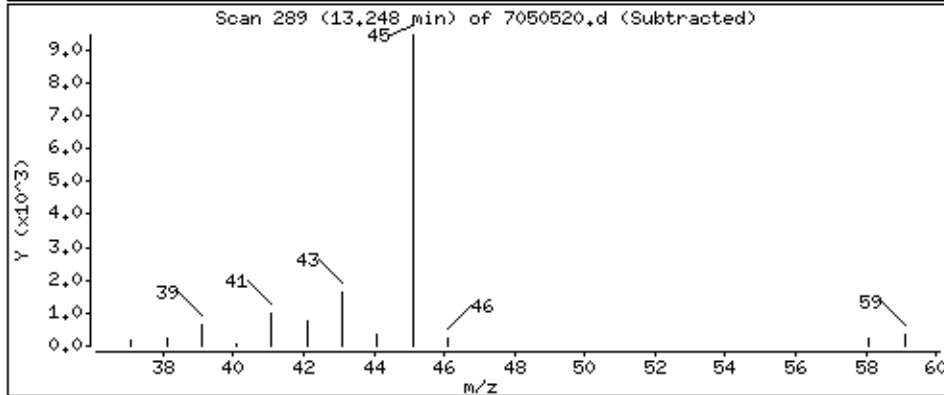
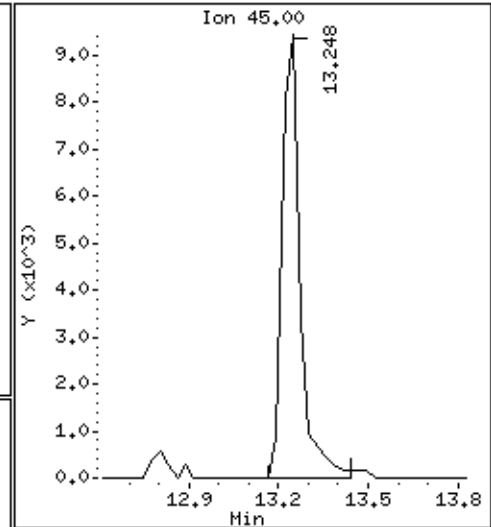
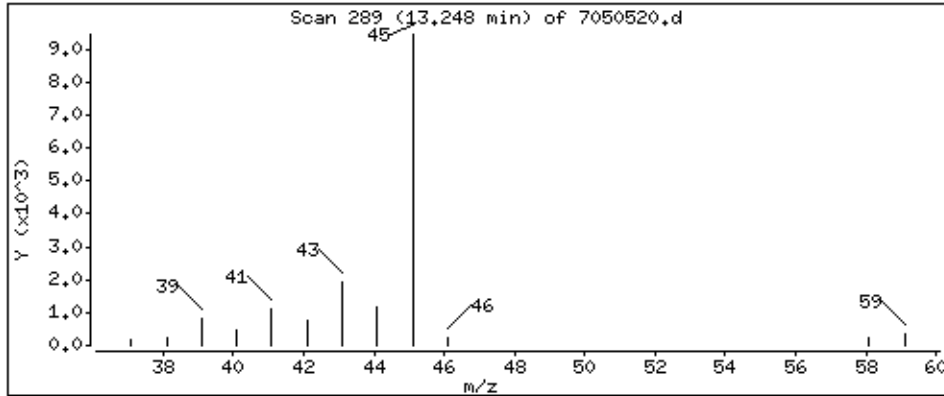
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

20 2-Propanol

Concentration: 0.9325 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

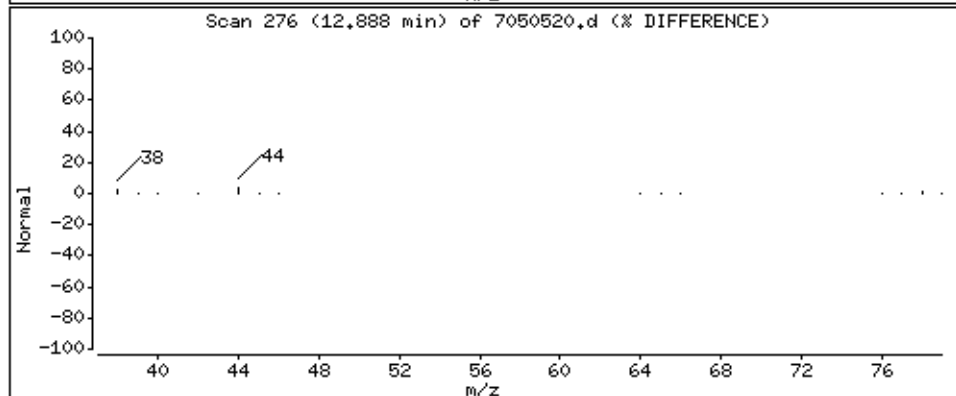
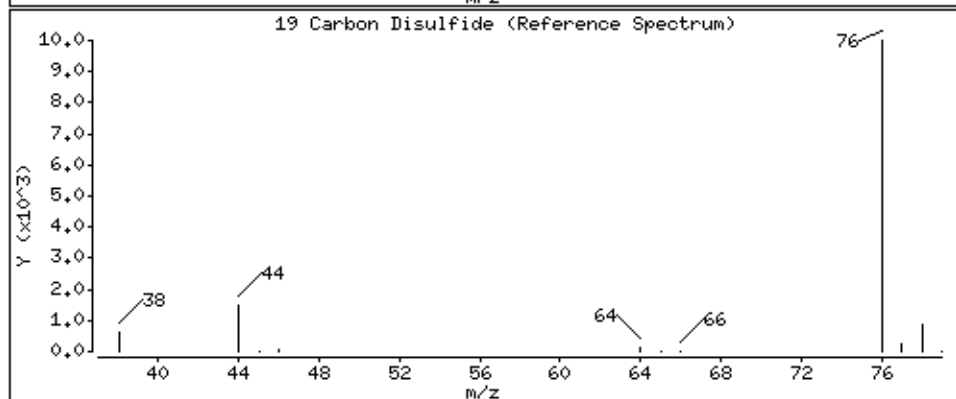
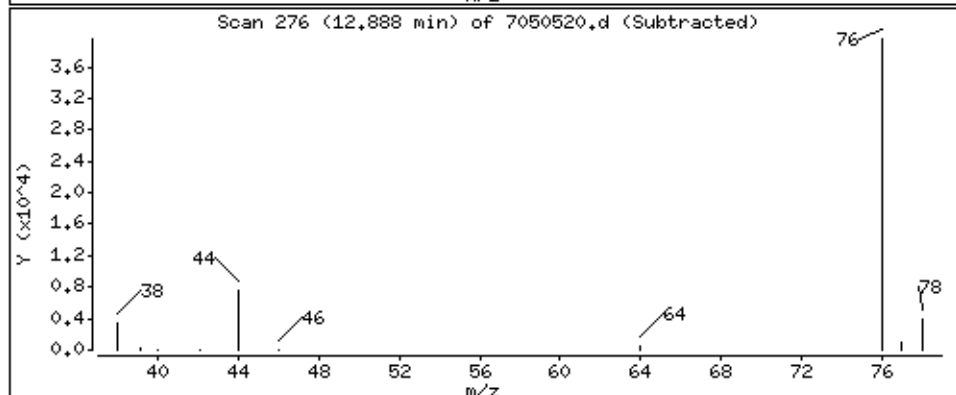
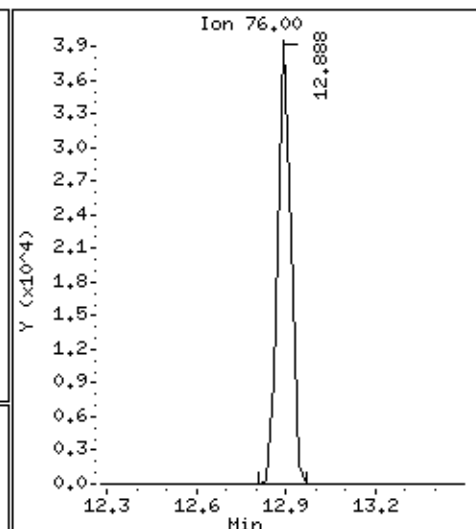
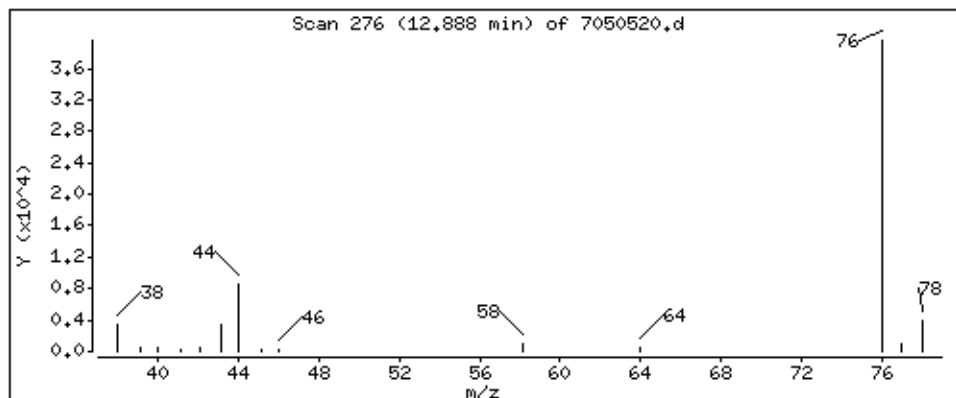
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

19 Carbon Disulfide

Concentration: 2.606 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

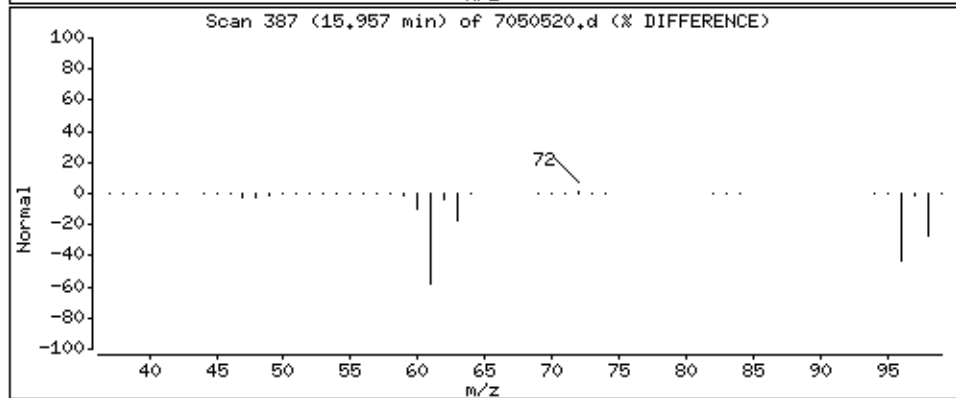
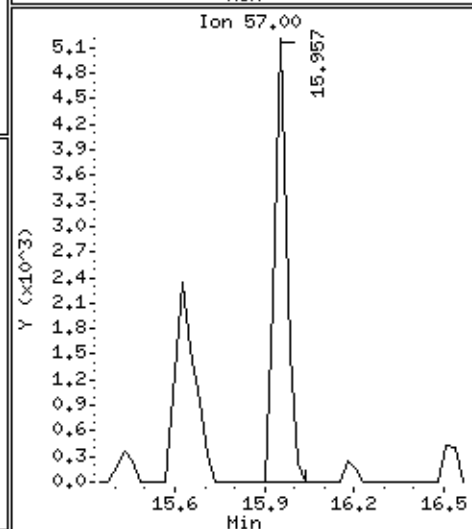
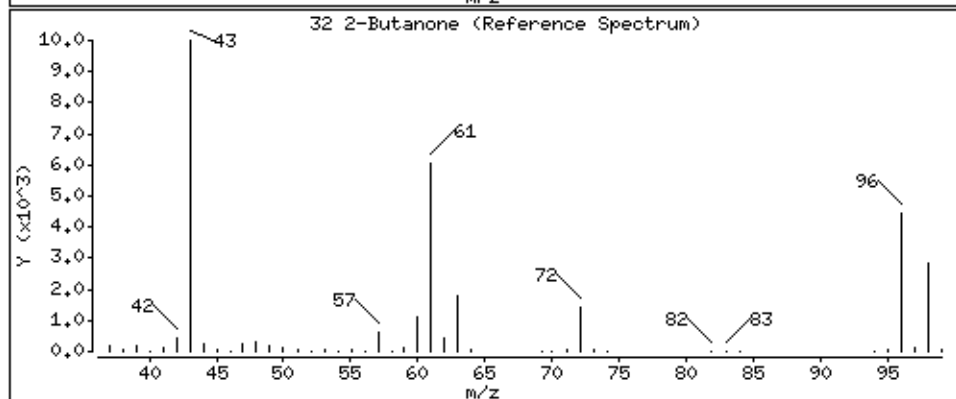
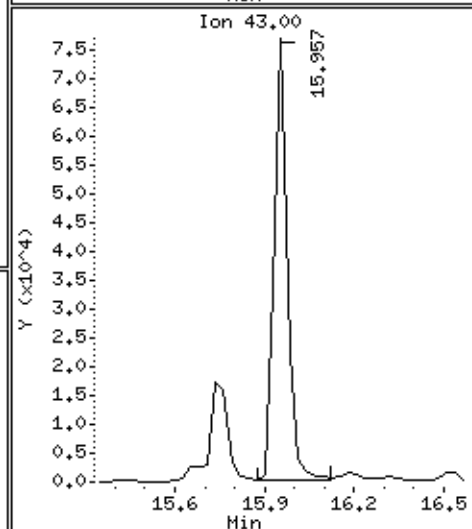
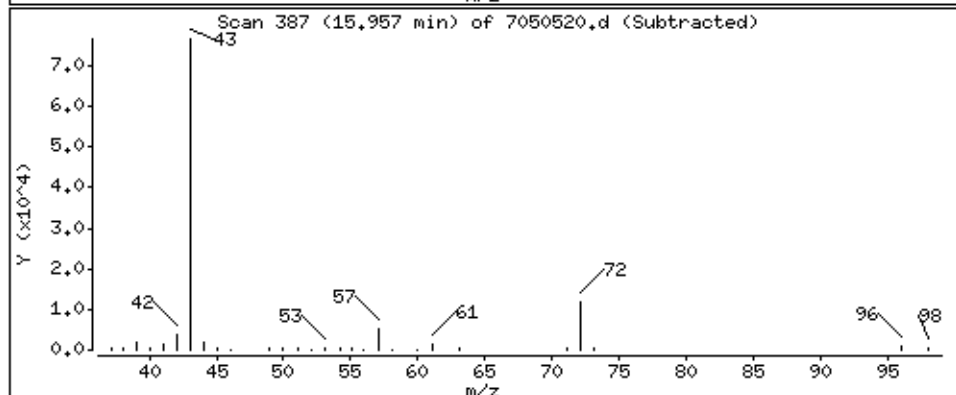
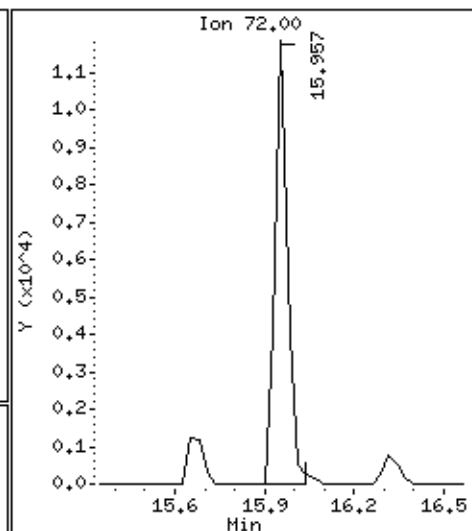
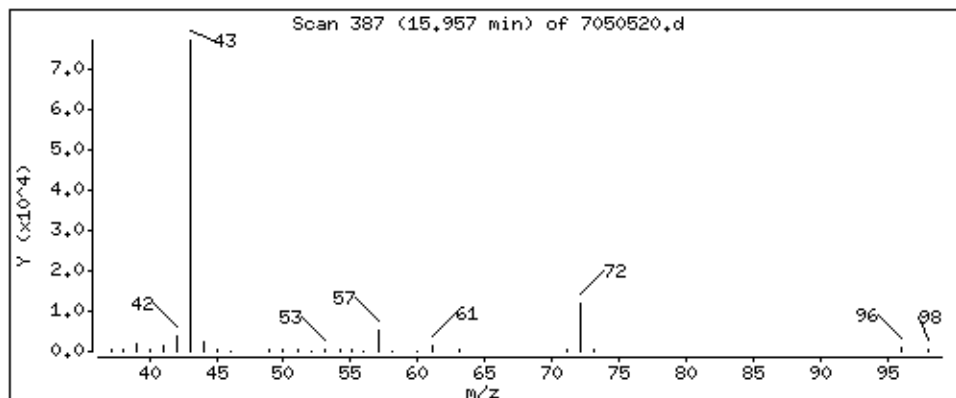
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

32 2-Butanone

Concentration: 3.676 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

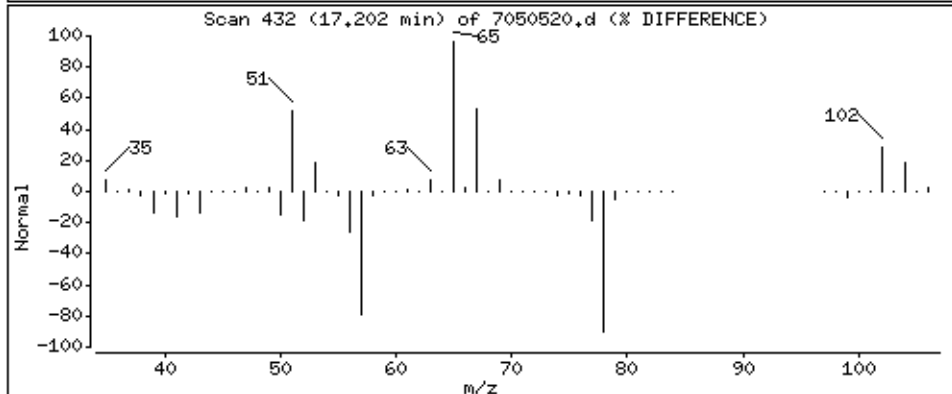
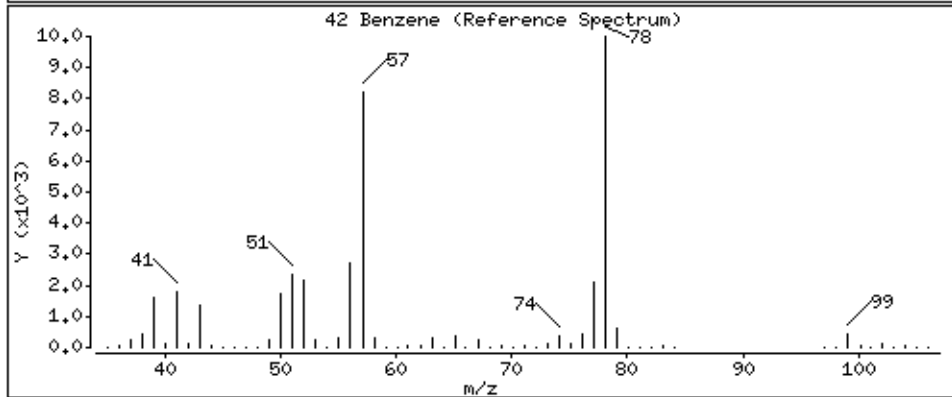
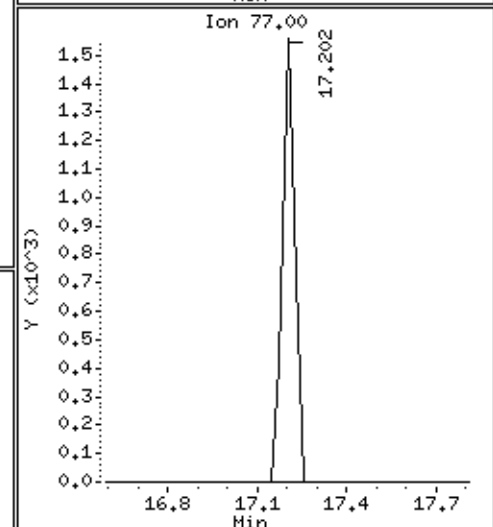
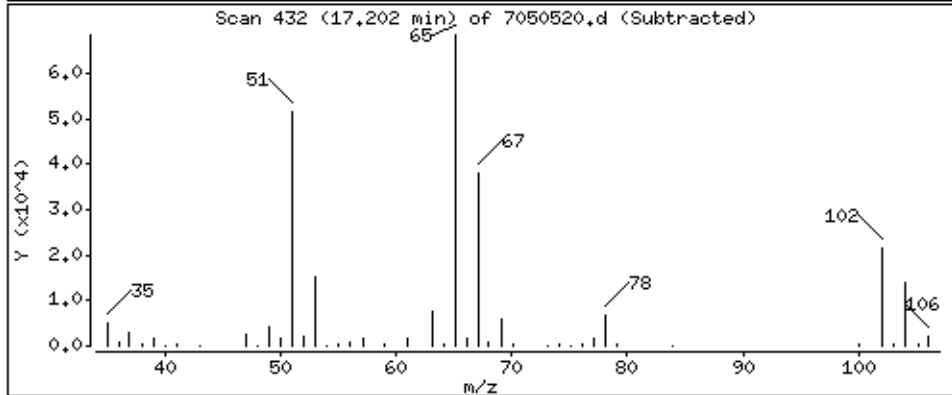
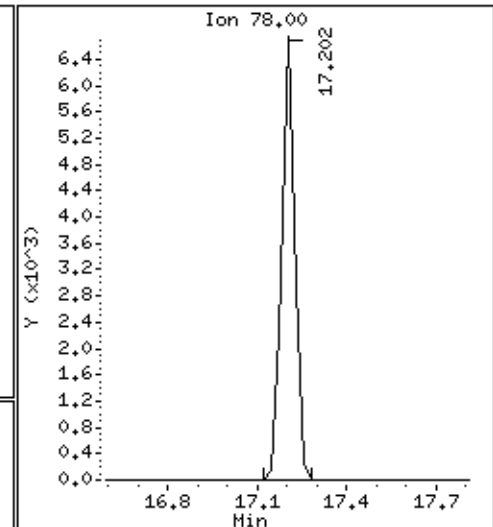
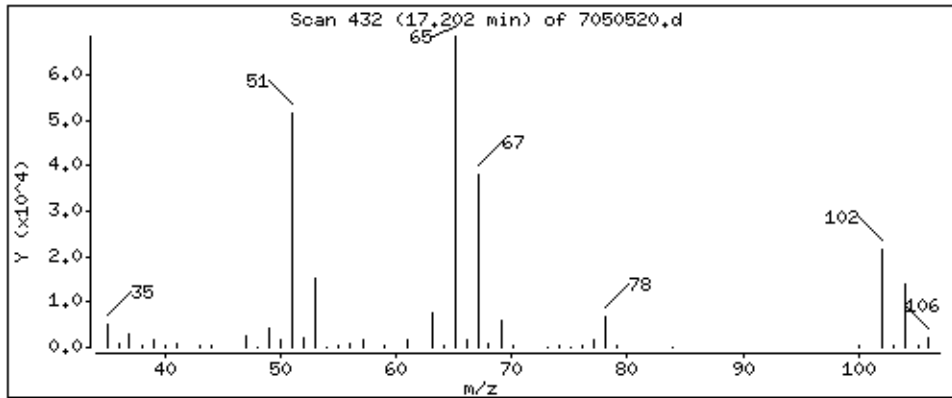
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

42 Benzene

Concentration: 0.3065 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

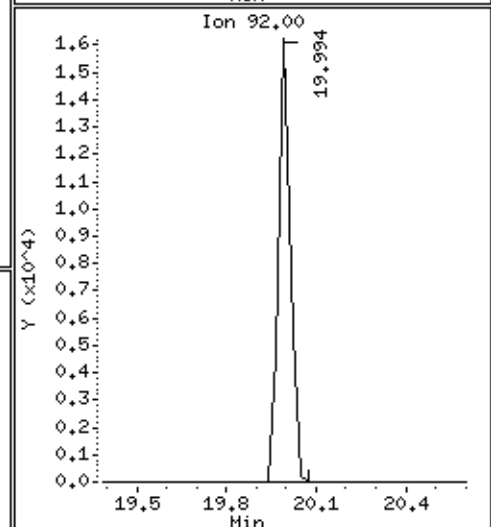
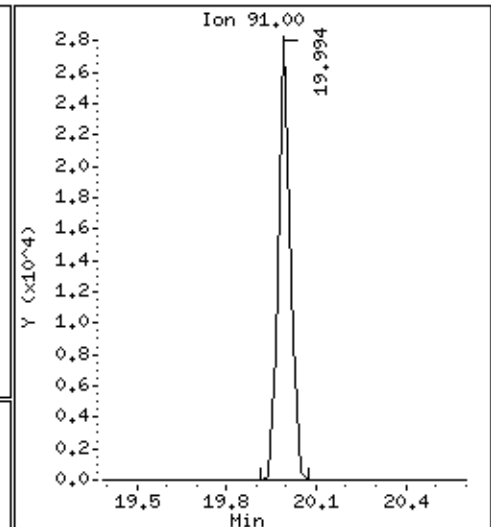
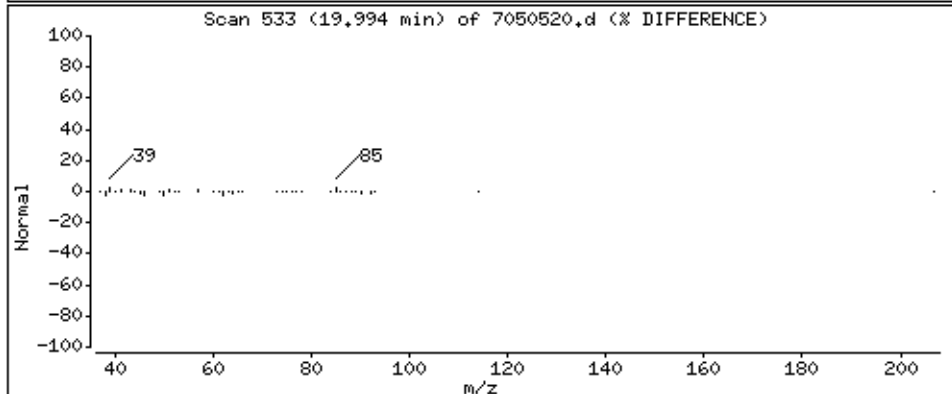
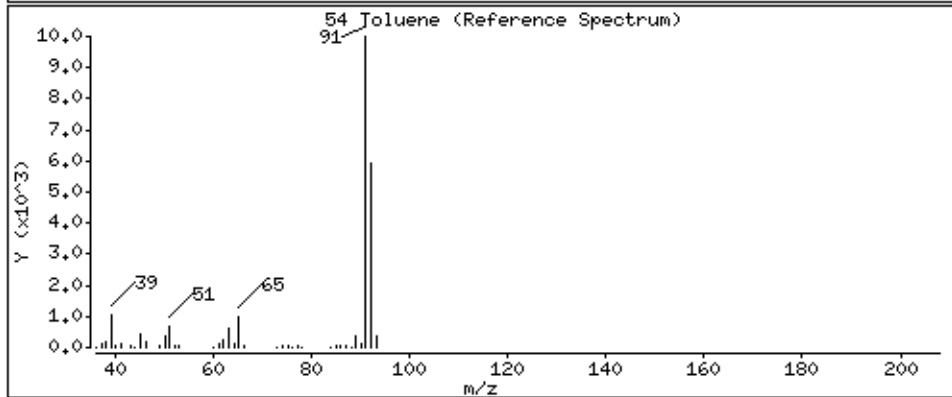
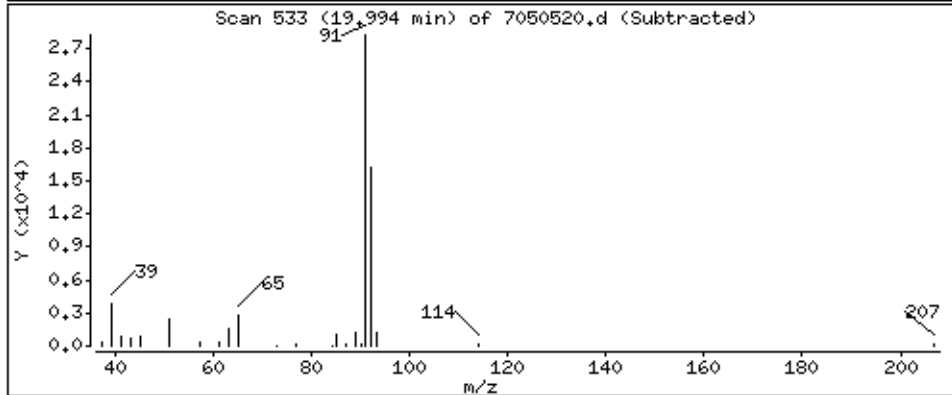
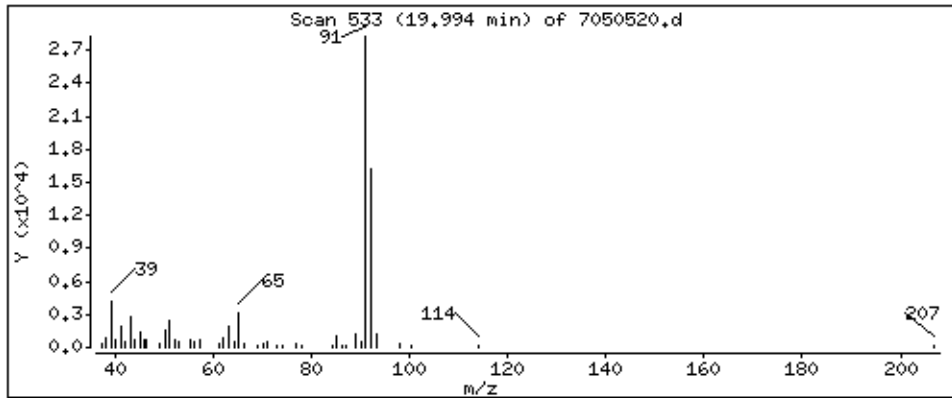
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

54 Toluene

Concentration: 0.9221 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

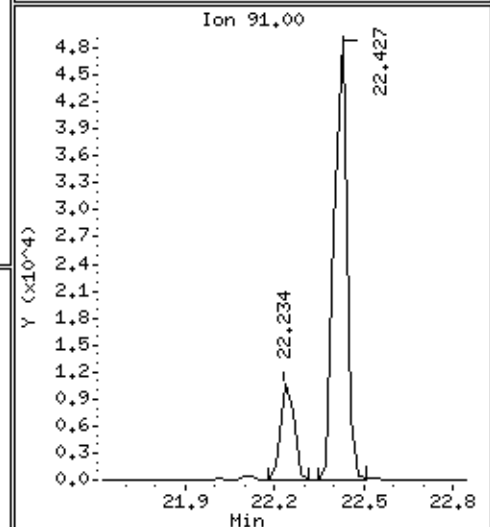
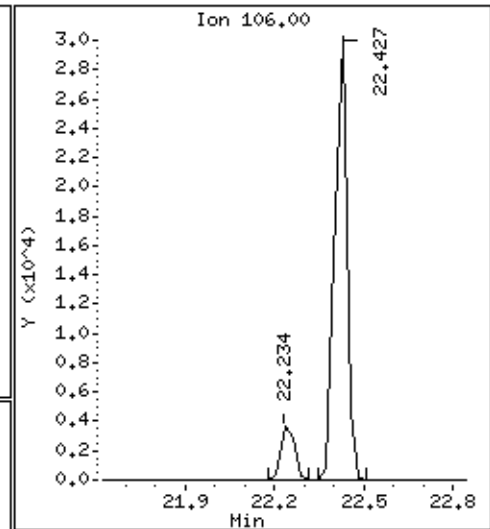
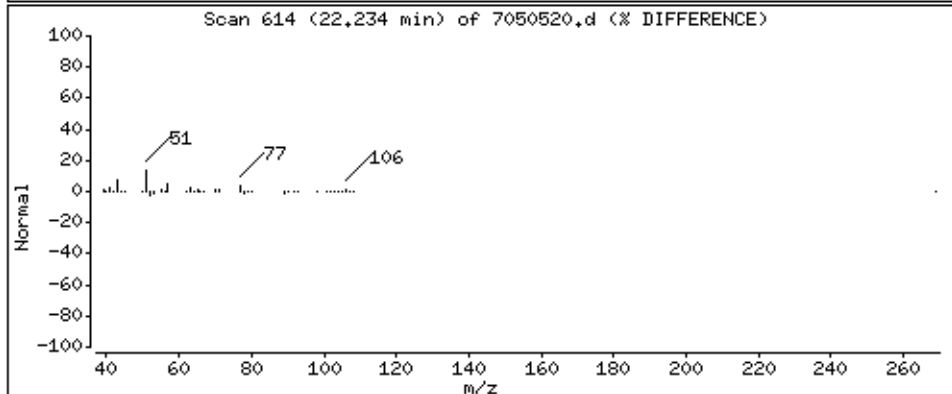
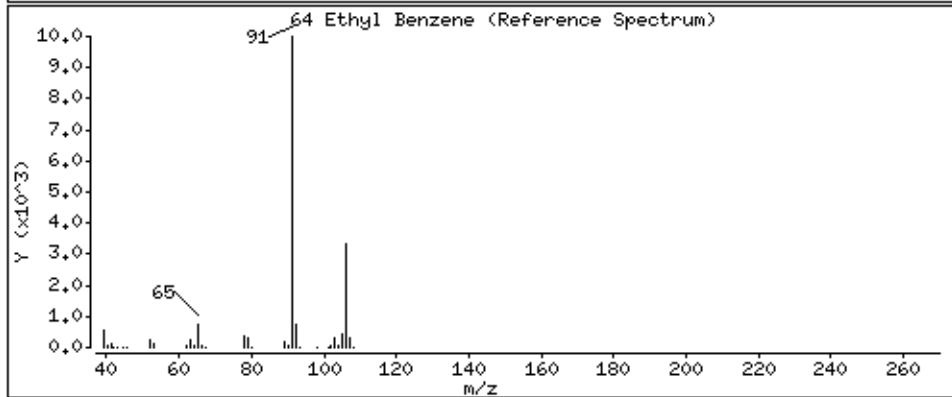
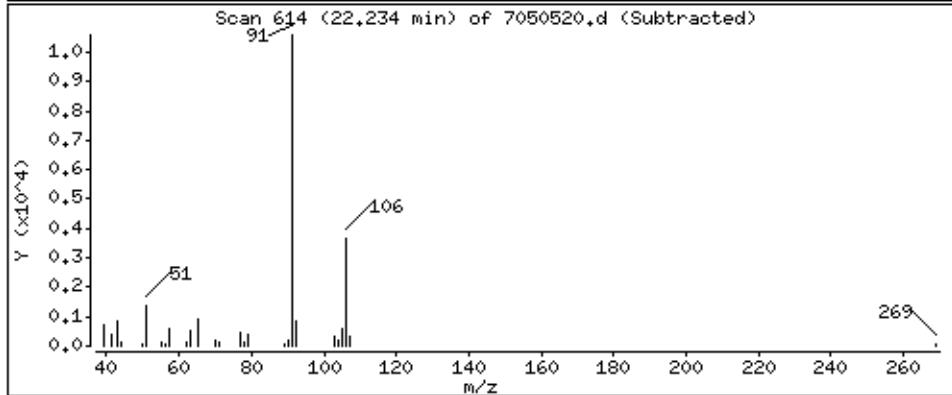
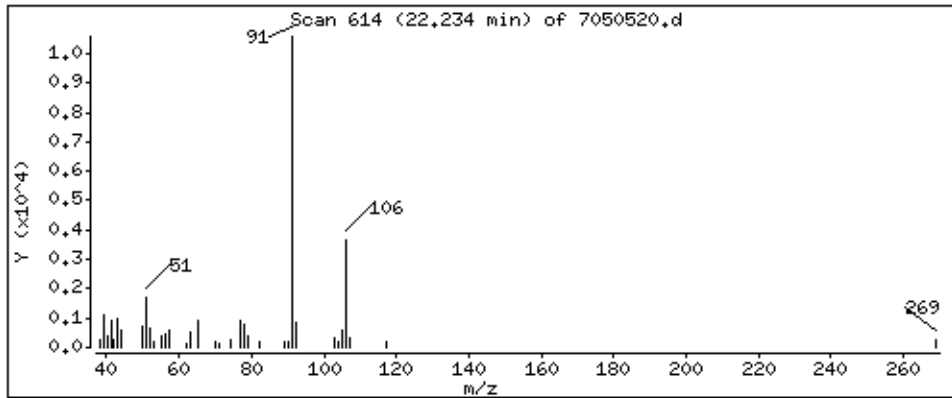
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

64 Ethyl Benzene

Concentration: 0.3173 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

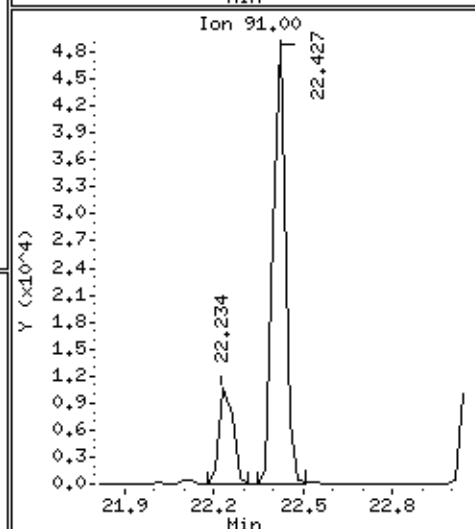
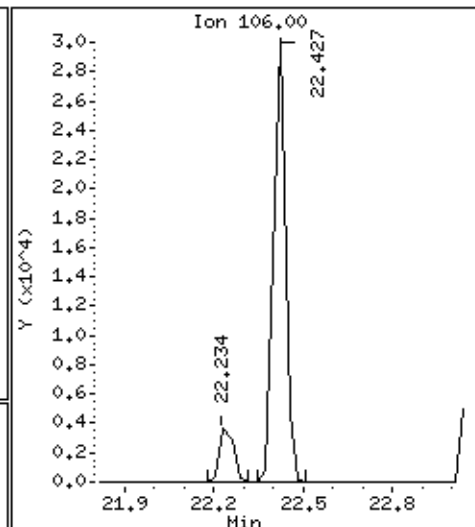
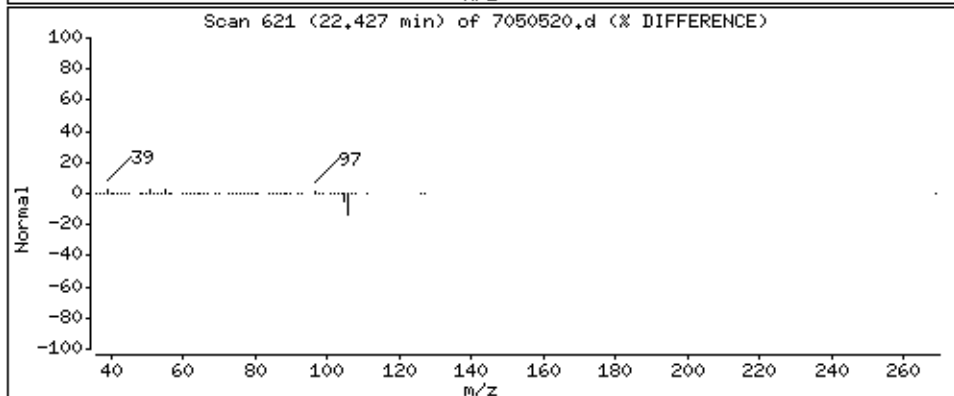
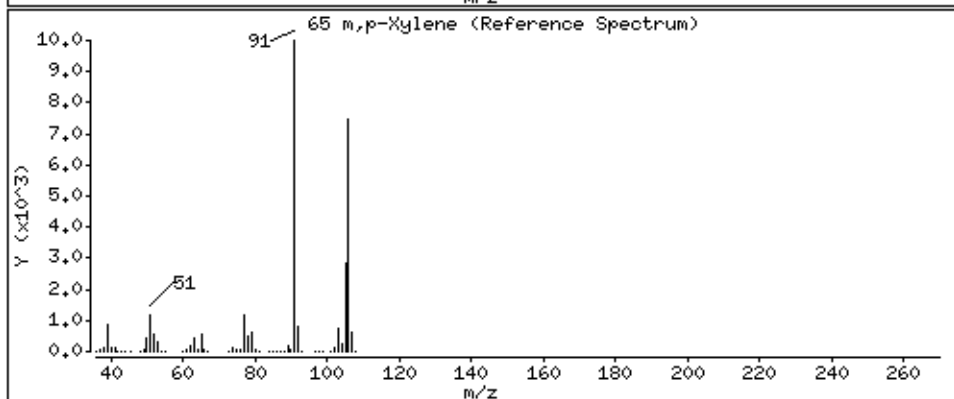
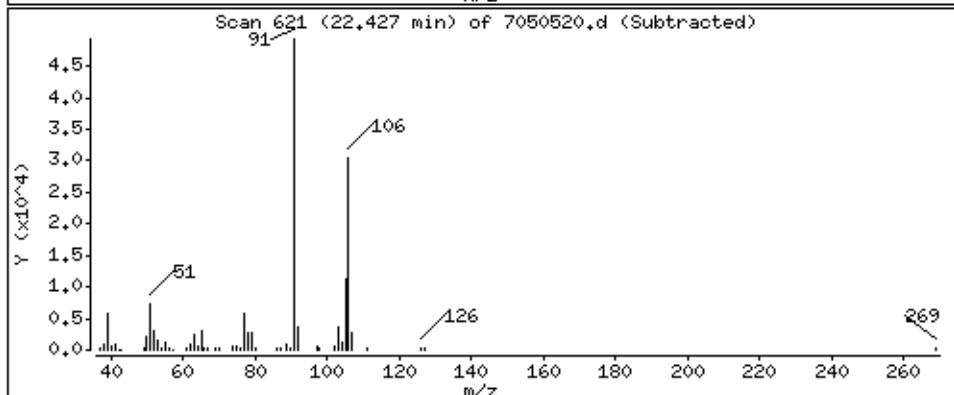
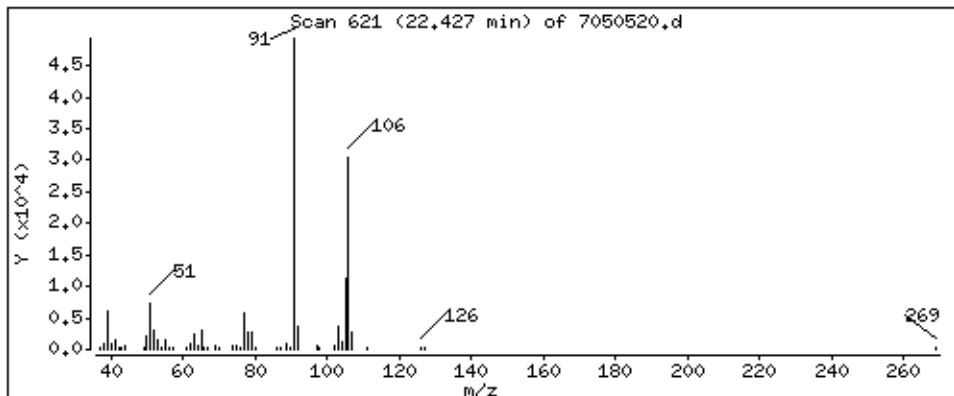
Operator: ea

Column phase: RTx-624

Column diameter: 0.32

65 m,p-Xylene

Concentration: 1,674 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

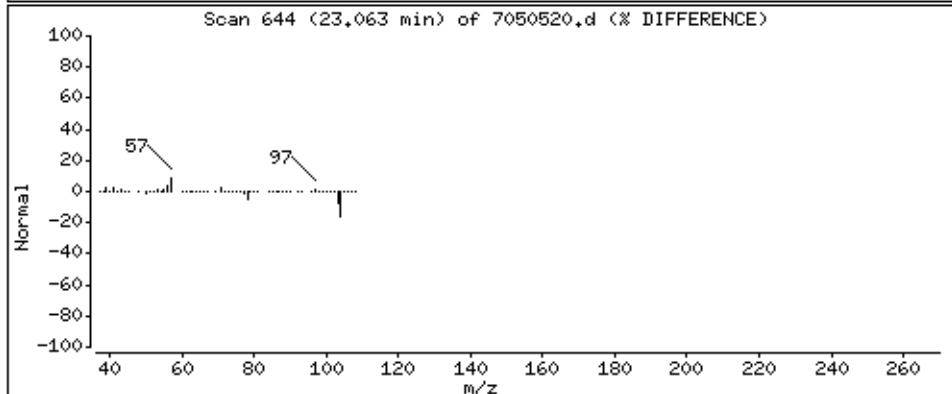
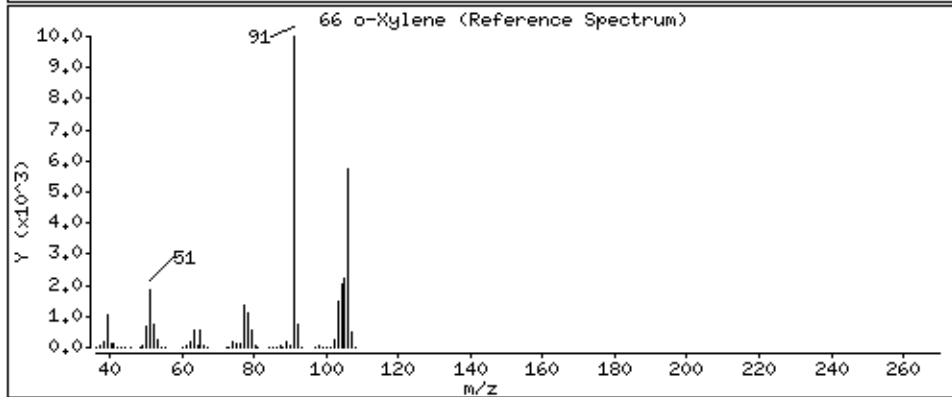
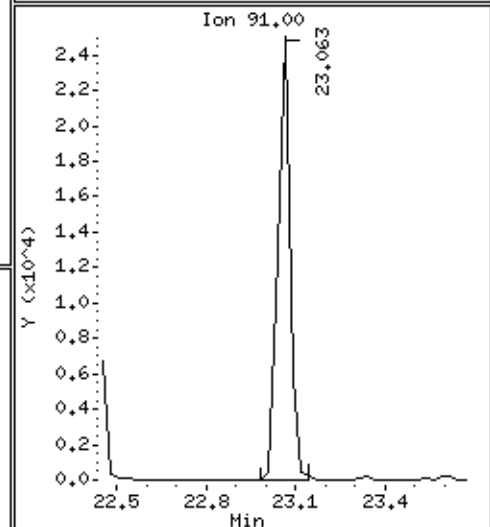
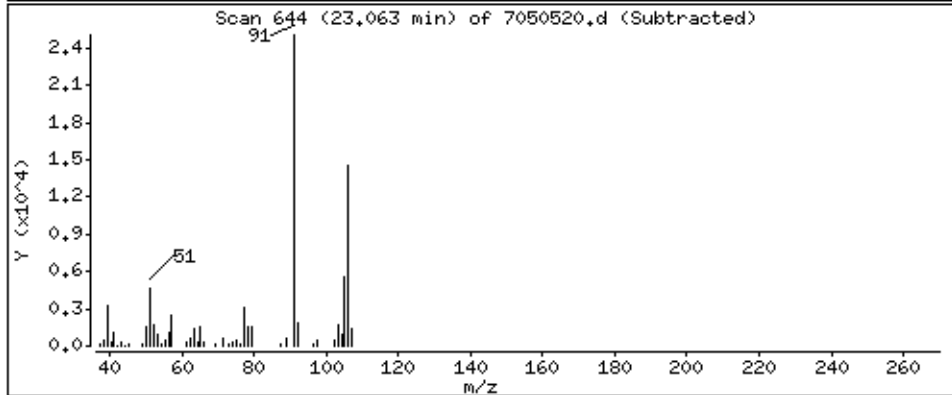
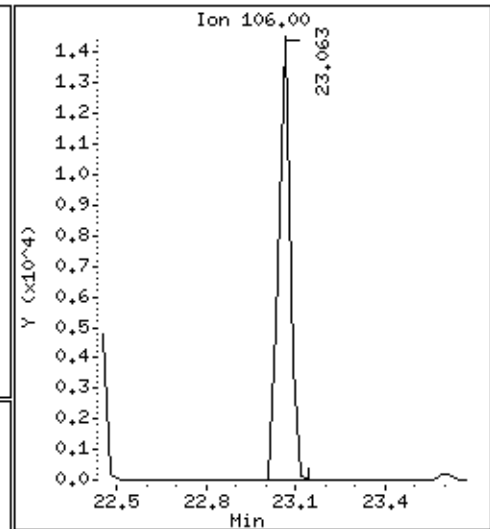
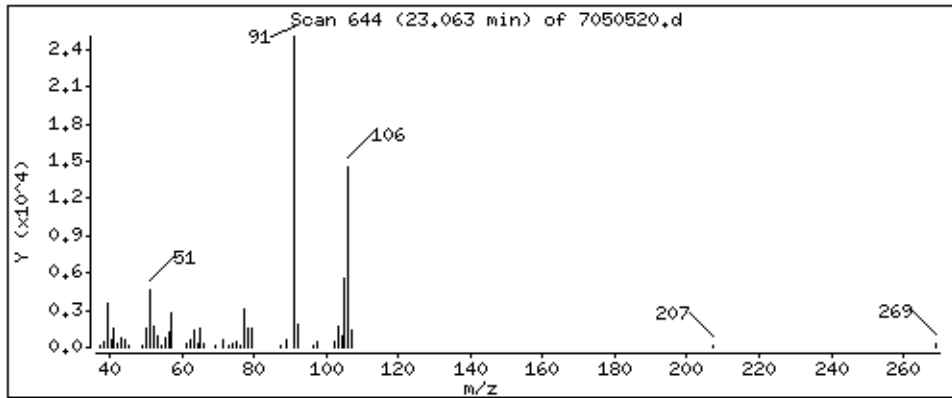
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

66 o-Xylene

Concentration: 0.8854 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

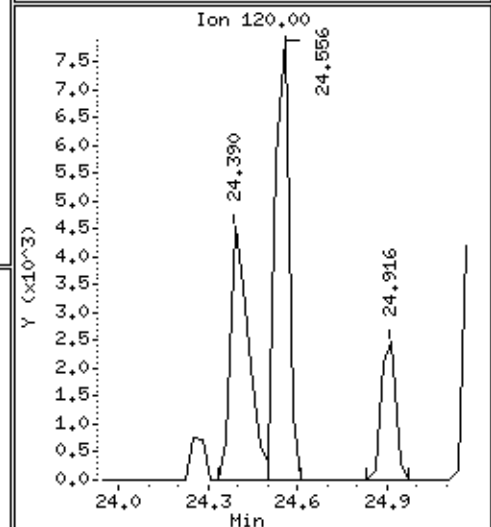
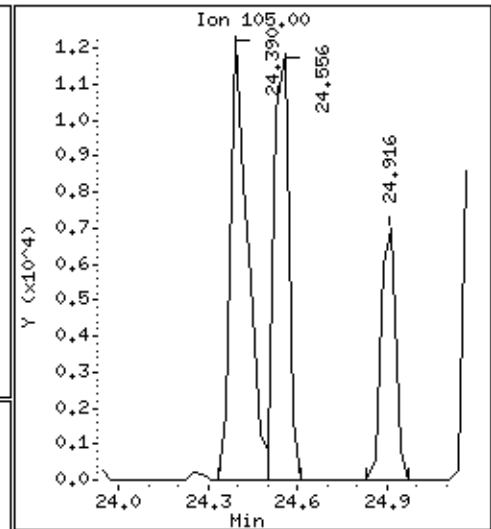
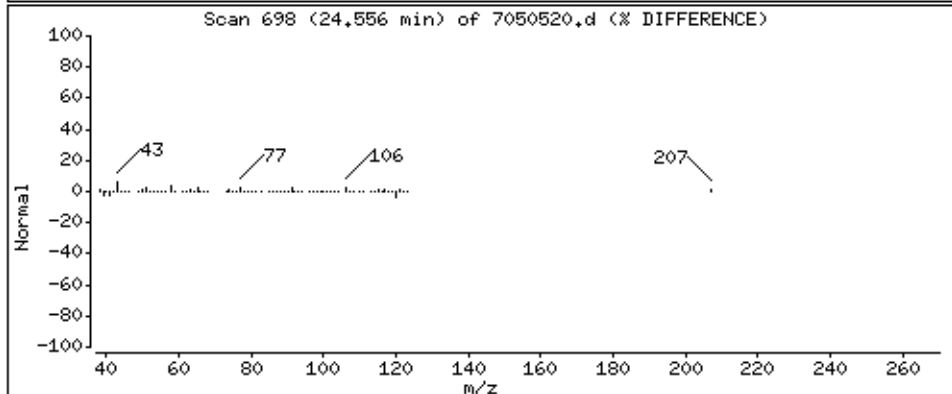
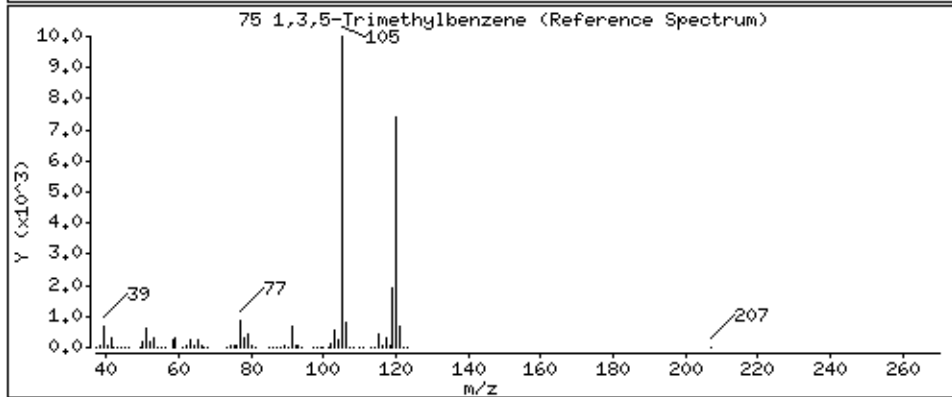
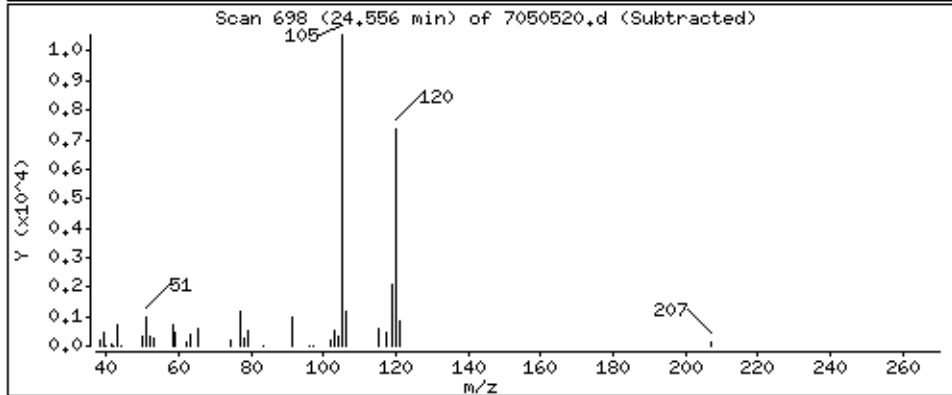
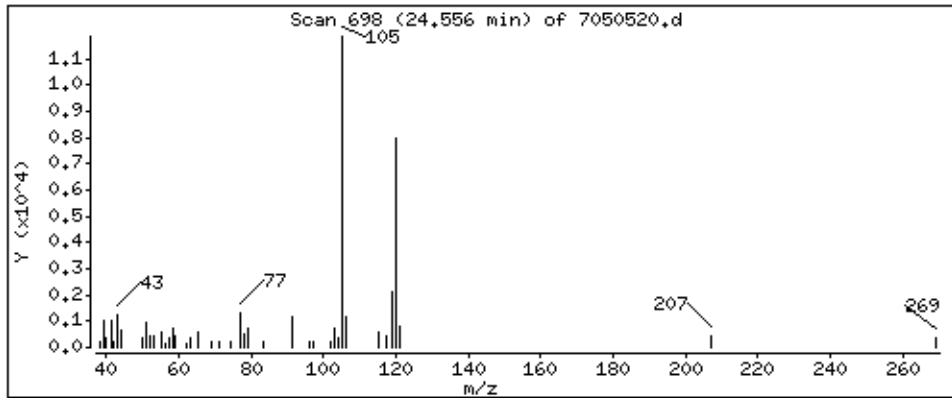
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

75 1,3,5-Trimethylbenzene

Concentration: 0.4426 PPBV



Date : 06-MAY-2005 09:56

Client ID:

Instrument: msd7.i

Sample Info: 500mL #14013

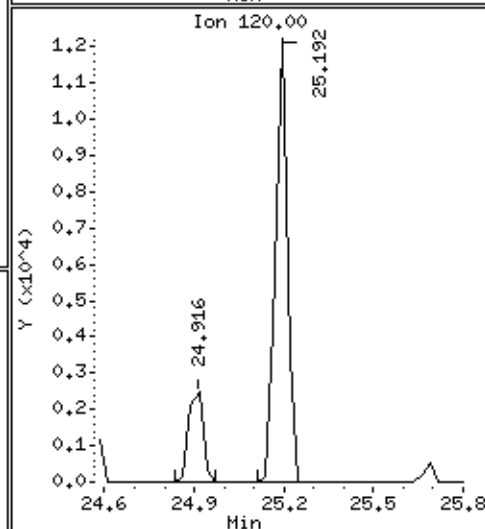
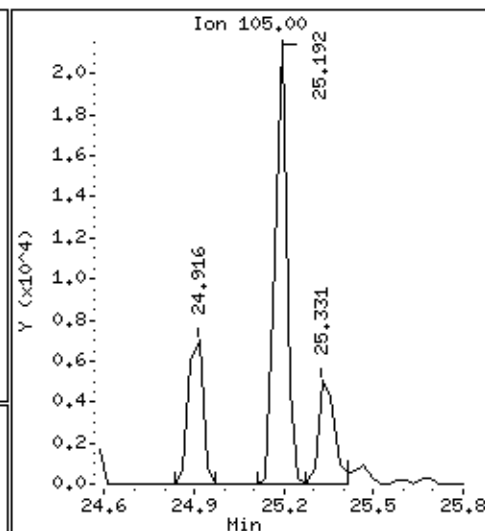
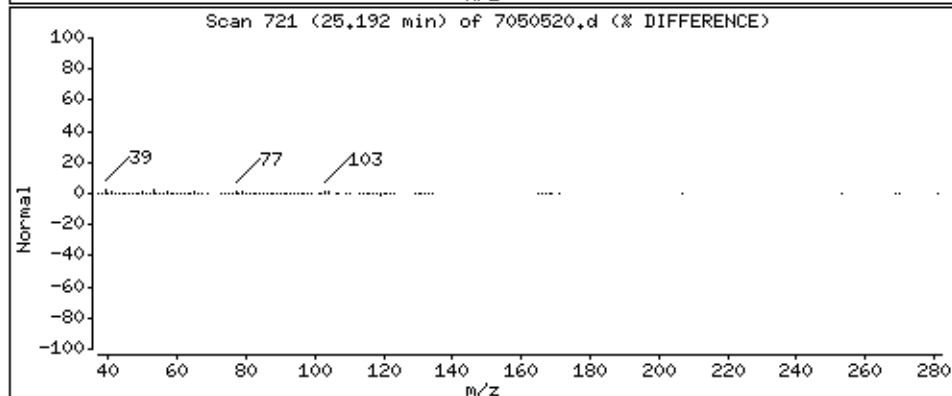
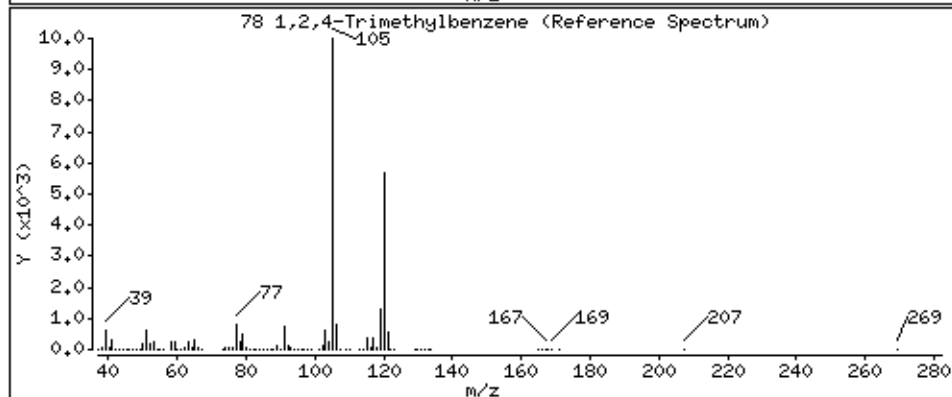
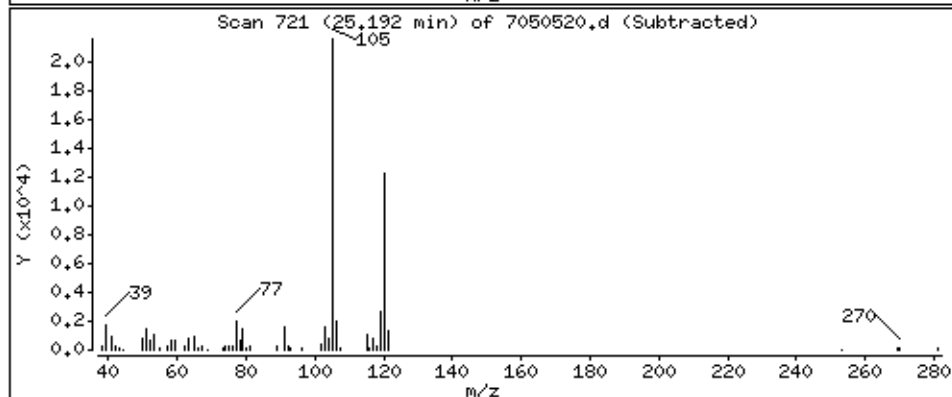
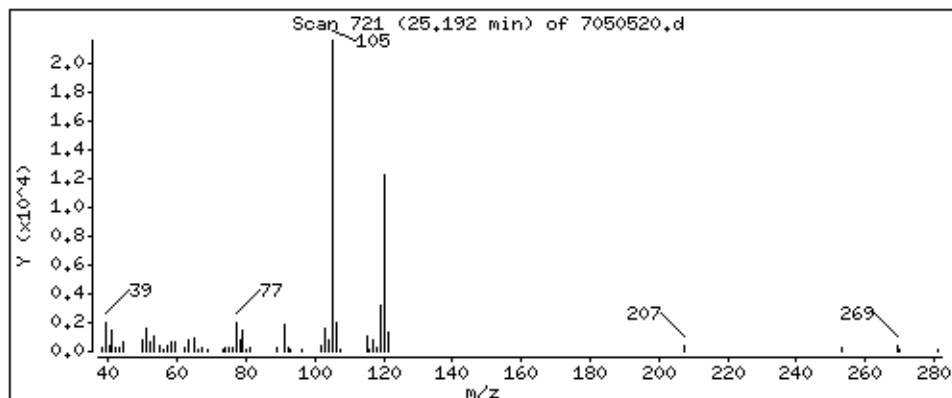
Operator: ea

Column phase: RTX-624

Column diameter: 0.32

78 1,2,4-Trimethylbenzene

Concentration: 0.6812 PPBV



QC Results and Raw Data

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0504472-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050506r1	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/5/05 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0504472-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050506r1	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/5/05 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-05may.b/7050506r1.d
Lab Smp Id: Lab Blank
Inj Date : 05-MAY-2005 16:03
Operator : BD
Smp Info : 500mL Can#12676
Misc Info : Humid
Comment :
Method : /chem/msd7.i/7-05may.b/t14l501a.m
Meth Date : 09-May-2005 14:50 lsoohoo
Cal Date : 01-MAY-2005 17:45
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Client Smp ID: Lab Blank
Inst ID: msd7.i
Quant Type: ISTD
Cal File: 7050113.d
Compound Sublist: AT+retec.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

					CONCENTRATIONS				
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 34 Bromochloromethane						CAS #:	74-97-5		
16.317	16.317	(1.000)	130	249709	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)	128	195403			47.67-	107.67	78.25
16.317	16.317	(1.000)	49	455673			141.21-	201.21	182.48

* 46 1,4-Difluorobenzene						CAS #:	540-36-3		
17.782	17.782	(1.000)	114	1121036	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)	88	139623			0.00-	42.60	12.45

* 62 Chlorobenzene-d5						CAS #:	3114-55-4		
22.123	22.123	(1.000)	117	990826	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)	82	440993			13.88-	73.88	44.51

\$ 41 1,2-Dichloroethane-d4						CAS #:	17060-07-0		
17.201	17.202	(1.054)	65	230788	9.63872	9.639	80.00-	120.00	100.00
17.201	17.202	(1.054)	67	130901			39.84-	99.84	56.72

\$ 53 Toluene-d8						CAS #:	2037-26-5		
19.883	19.884	(1.118)	98	1017033	9.87990	9.880	80.00-	120.00	100.00
19.883	19.884	(1.118)	70	86491			0.00-	38.58	8.50

RT	EXP	RT (REL	RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET	RANGE	RATIO
						ON-COL	FINAL			
==	=====	=====		=====	(PPBV)	(PPBV)		=====		=====
\$ 53 Toluene-d8 (continued)										
19.883	19.884	(1.118)		100	695794			38.13-	98.13	68.41

\$ 71 Bromofluorobenzene							CAS #:	460-00-4		
23.948	23.948	(1.082)		174	590600	9.90339	9.903	80.00-	120.00	100.00
23.948	23.948	(1.082)		95	612668			73.19-	133.19	103.74
23.948	23.948	(1.082)		176	576801			66.66-	126.66	97.66

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050506r1.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: BD
Method File: /chem/msd7.i/7-05may.b/t14l501a.m
Misc Info: Humid

Calibration Date: 05-MAY-2005
Calibration Time: 13:08
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	273711	164227	383195	249709	-8.77
46 1,4-Difluorobenze	1190742	714445	1667039	1121036	-5.85
62 Chlorobenzene-d5	1102533	661520	1543546	990826	-10.13

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: Lab Blank	Client Smp ID: Lab Blank
Level: LOW	Operator: BD
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: AT+retec.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: Humid	

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.639	96.39	70-130
\$ 53 Toluene-d8	10.000	9.880	98.80	70-130
\$ 71 Bromofluorobenzene	10.000	9.903	99.03	70-130

Date : 05-MAY-2005 16:03

Client ID: Lab Blank

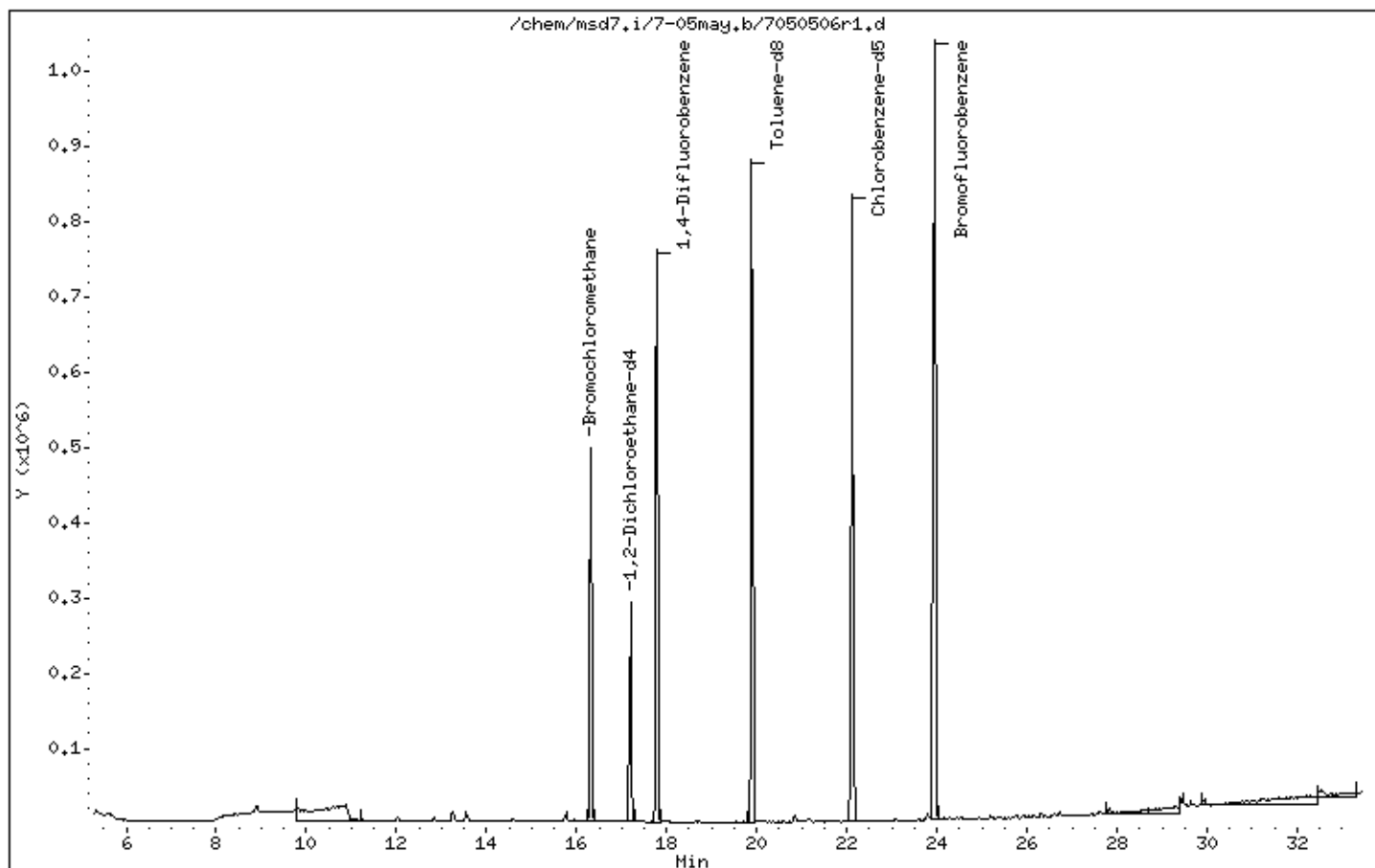
Instrument: msd7.i

Sample Info: 500mL Can#12676

Operator: BD

Column phase: RTX-624

Column diameter: 0.32



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0504472

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							TOTAL OUT
	1,2-Dichloroethane-d 4	#	Toluene-d8	#	4-Bromofluorobenze ne	#	#	
01	IA-A01	94		99		100		0
02	SV-A01	96		98		98		0
03	IA-A02	97		98		98		0
04	IA-A02 Duplicate	99		100		100		0
05	SV-A02	101		99		107		0
06	IA-A03	100		99		98		0
07	AA-R01	98		99		100		0
08	Lab Blank	96		99		99		0
09	CCV	98		101		104		0
10	LCS	99		99		101		0
11								0
12								0
13								0
14								0
15								0
16								0
17								0
18								0
19								0
20								0
21								0
22								0
23								0
24								0

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130

Toluene-d8 70 - 130

4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD

SDG No: 0504472

Lab File ID: 7050503r1.d

Date Analyzed: 05/05/2005

Instrument ID: msd7.i

Time Analyzed: 01:08 PM

	Chlorobenzene-d5		RT		1,4-Difluorobenzene		RT		Bromochloromethane		RT	
	Area	#		#	Area	#		#	Area	#		#
24-HOUR STD	1102533		22.12		1190742		17.78		273711		16.32	
UPPER LIMIT	1543546		22.45		1667039		18.11		383195		16.65	
LOWER LIMIT	661520		21.79		714445		17.45		164227		15.99	
CLIENT SAMPLE NO												
01 IA-A01	1112535		22.12		1272437		17.78		290612		16.32	
02 SV-A01	1007021		22.12		1143912		17.78		256264		16.32	
03 IA-A02	999993		22.12		1151223		17.78		260715		16.32	
04 IA-A02 Duplicate	955066		22.12		1061391		17.78		242315		16.32	
05 SV-A02	715510		22.12		791595		17.78		173597		16.32	
06 IA-A03	788552		22.12		888774		17.78		200451		16.32	
07 AA-R01	839473		22.12		946087		17.78		214156		16.32	
08 Lab Blank	990826		22.12		1121036		17.78		249709		16.32	
09 CCV	1102533		22.12		1190742		17.78		273711		16.32	
10 LCS	1051558		22.12		1179071		17.78		265484		16.32	
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												

'Area Upper Limit=+40% of internal standard area'
'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT
RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 7050514.d & 7050513.d

Lab Sample ID: 03A & 03AA

Dilution: 1.71 & 1.71

Client Sample ID: &

Date Analyzed: 5/5/05 & 5/6/05

CAS Number	Compound	Original		Duplicate		RPD
		Amount	Flags	Amount	Flags	
75-71-8	Freon 12	0.8832		0.8455		4.4
76-14-2	Freon 114	ND	U	ND	U	0
74-87-3	Chloromethane	0.4868		0.4726		3.0
75-01-4	Vinyl Chloride	ND	U	ND	U	0
106-99-0	1,3-Butadiene	ND	U	ND	U	0
74-83-9	Bromomethane	ND	U	ND	U	0
75-00-3	Chloroethane	ND	U	ND	U	0
75-69-4	Freon 11	0.4439		0.4579		3.1
64-17-5	Ethanol	2.122		1.956		8.1
76-13-1	Freon 113	ND	U	ND	U	0
75-35-4	1,1-Dichloroethene	ND	U	ND	U	0
67-64-1	Acetone	1.942		1.99		2.4
67-63-0	2-Propanol	ND	U	ND	U	0
75-15-0	Carbon Disulfide	ND	U	ND	U	0
75-09-2	Methylene Chloride	ND	U	ND	U	0
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0
156-60-5	trans-1,2-Dichloroethene	ND	U	ND	U	0
110-54-3	Hexane	ND	U	ND	U	0
75-34-3	1,1-Dichloroethane	ND	U	ND	U	0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ND	U	ND	U	0
156-59-2	cis-1,2-Dichloroethene	0.8291		0.8549		3.1
109-99-9	Tetrahydrofuran	ND	U	ND	U	0
67-66-3	Chloroform	ND	U	ND	U	0
71-55-6	1,1,1-Trichloroethane	ND	U	ND	U	0
110-82-7	Cyclohexane	ND	U	ND	U	0
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0
71-43-2	Benzene	0.3034		0.322		5.9
107-06-2	1,2-Dichloroethane	ND	U	ND	U	0
142-82-5	Heptane	ND	U	ND	U	0
79-01-6	Trichloroethene	1.181		1.23		4.1
78-87-5	1,2-Dichloropropane	ND	U	ND	U	0
123-91-1	1,4-Dioxane	ND	U	ND	U	0
75-27-4	Bromodichloromethane	ND	U	ND	U	0
10061-01-5	cis-1,3-Dichloropropene	ND	U	ND	U	0
108-10-1	4-Methyl-2-pentanone	ND	U	ND	U	0
108-88-3	Toluene	0.5371		0.5732		6.5
10061-02-6	trans-1,3-Dichloropropene	ND	U	ND	U	0
79-00-5	1,1,2-Trichloroethane	ND	U	ND	U	0
127-18-4	Tetrachloroethene	ND	U	ND	U	0
591-78-6	2-Hexanone	ND	U	ND	U	0
124-48-1	Dibromochloromethane	ND	U	ND	U	0
106-93-4	1,2-Dibromoethane (EDB)	ND	U	ND	U	0
108-90-7	Chlorobenzene	ND	U	ND	U	0
100-41-4	Ethyl Benzene	ND	U	ND	U	0
108-38-3	m,p-Xylene	0.1807		0.211		15
95-47-6	o-Xylene	ND	U	ND	U	0

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.	Lab File ID: 7050514.d & 7050513.d	
Lab Sample ID: 03A & 03AA	Dilution: 1.71 & 1.71	
Client Sample ID: &	Date Analyzed: 5/5/05 & 5/6/05	

CAS Number	Compound	Original		Duplicate		RPD
		Amount	Flags	Amount	Flags	
100-42-5	Styrene	ND	U	ND	U	0
75-25-2	Bromoform	ND	U	ND	U	0
98-82-8	Cumene	ND	U	ND	U	0
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ND	U	0
103-65-1	Propylbenzene	ND	U	ND	U	0
622-96-8	4-Ethyltoluene	ND	U	ND	U	0
108-67-8	1,3,5-Trimethylbenzene	ND	U	ND	U	0
95-63-6	1,2,4-Trimethylbenzene	ND	U	ND	U	0
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0
100-44-7	alpha-Chlorotoluene	ND	U	ND	U	0
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
 End Cal Date : 02-MAY-2005 22:03
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd7.i/7-02maya.b/t141501a.m
 Cal Date : 03-May-2005 19:21 bdunmore
 Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	0.05000 Level 7							
17 Freon 113	2.54365	2.22591	2.01970	2.45849	2.41500	2.37442		
	+++++						2.33953	8.063
18 Acetone	+++++	3.52595	3.42986	3.63806	3.51795	3.17794		
	+++++						3.45795	5.006
19 Carbon Disulfide	+++++	3.52369	3.42912	4.06806	3.97293	3.94602		
	+++++						3.78796	7.654
20 2-Propanol	+++++	3.60688	3.18720	3.88407	3.80422	3.28349		
	+++++						3.55317	8.698
21 Acetonitrile	+++++	1.01480	0.98601	1.03277	0.96893	0.96419		
	+++++						0.99334	2.984
22 2-Methylpentane	+++++	1.08962	1.08777	1.20089	1.18836	1.20720		
	+++++						1.15477	5.256
23 Methylene Chloride	1.51838	1.28003	1.12250	1.38755	1.34588	1.29362		
	+++++						1.32466	9.887
24 MTBE	+++++	3.03131	2.91599	3.65348	3.56681	3.41602		
	+++++						3.31672	9.861
25 trans-1,2-Dichloroethene	0.90619	0.80926	0.77824	0.94915	0.94140	0.91994		
	+++++						0.88403	8.172
26 Acrylonitrile	+++++	1.14985	1.43308	1.50060	1.45994	1.52863		
	+++++						1.41442	10.774

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
End Cal Date : 02-MAY-2005 22:03
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-02maya.b/t141501a.m
Cal Date : 03-May-2005 19:21 bdunmore
Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	0.05000 Level 7							
27 Hexane	+++++	3.13783	3.12326	3.83733	3.72343	3.54114		
	+++++						3.47260	9.494
28 1,1-Dichloroethane	2.99768	2.76181	2.70451	3.36557	3.26693	3.07927		
	+++++						3.02930	8.735
29 Vinyl Acetate	+++++	0.18946	0.59509	0.94628	0.93733	0.90429		
	+++++						0.71449	45.853<-
30 Chlorprene	+++++	4.76362	5.30991	5.41472	5.41085	5.88891		
	+++++						5.35760	7.486
31 cis-1,2-Dichloroethene	1.17148	1.10969	1.06443	1.30194	1.30076	1.29645		
	+++++						1.20746	8.832
32 2-Butanone	+++++	0.61167	0.62632	0.86644	0.85914	0.84643		
	+++++						0.76200	17.171
33 Tetrahydrofuran	+++++	3.00032	2.82648	3.52091	3.38782	3.07211		
	+++++						3.16153	9.038
35 Chloroform	2.57662	2.26884	2.30268	2.86955	2.82276	2.63854		
	+++++						2.57983	9.805
36 Cyclohexane	+++++	2.04660	1.88837	2.38532	2.39991	2.42000		
	+++++						2.22804	10.981
37 1,1,1-Trichloroethane	2.43546	2.35059	2.26966	2.90386	2.92421	2.80183		
	+++++						2.61427	11.287

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
 End Cal Date : 02-MAY-2005 22:03
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd7.i/7-02maya.b/t141501a.m
 Cal Date : 03-May-2005 19:21 bdunmore
 Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	0.05000 Level 7							
38 2,3-Dimethylpentane	+++++	0.19881	0.20711	0.21613	0.21390	0.22261	0.21171	4.296
39 Carbon Tetrachloride	2.20978	2.10514	2.14884	2.94970	2.96893	2.86583	2.54137	16.779
40 Isooctane	+++++	3.53799	3.76098	3.92264	3.95975	4.07543	3.85136	5.406
42 Benzene	1.44669	1.07359	1.00485	1.27229	1.28016	1.33935	1.23615	13.447
43 1,2-Dichloroethane	0.40579	0.35021	0.36028	0.46128	0.44097	0.41257	0.40518	10.770
44 Heptane	+++++	0.94399	0.95463	1.19507	1.15916	1.11829	1.07423	10.918
45 Thiophene	+++++	0.56282	0.59234	0.61731	0.62380	0.63564	0.60638	4.789
47 Trichloroethene	0.78475	0.61357	0.58215	0.71597	0.71643	0.73961	0.69208	11.240
48 1,2-Dichloropropane	0.47749	0.44198	0.43294	0.54559	0.53487	0.52658	0.49324	9.973
49 1,4-Dioxane	+++++	0.18782	0.20762	0.25368	0.27478	0.25955	0.23669	15.661

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
 End Cal Date : 02-MAY-2005 22:03
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd7.i/7-02maya.b/t141501a.m
 Cal Date : 03-May-2005 19:21 bdunmore
 Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	0.05000 Level 7							
50 Bromodichloromethane	+++++	0.49368	0.49750	0.65750	0.65578	0.65496		
	+++++						0.59188	14.854
51 cis-1,3-Dichloropropene	0.49058	0.42213	0.44442	0.59741	0.59829	0.60656		
	+++++						0.52657	16.005
52 4-Methyl-2-pentanone	+++++	0.99873	1.15578	1.61752	1.60401	1.50524		
	+++++						1.37626	20.482
54 Toluene	1.60503	1.28022	1.27467	1.64711	1.66170	1.70461		
	+++++						1.52889	12.909
55 trans-1,3-Dichloropropene	0.36760	0.34030	0.36760	0.49801	0.49581	0.48374		
	+++++						0.42551	17.447
56 1,1,2-Trichloroethane	0.53339	0.47067	0.47456	0.59318	0.58203	0.58224		
	+++++						0.53934	10.327
57 Tetrachloroethene	0.83664	0.78782	0.75096	0.94753	0.95474	1.00669		
	+++++						0.88073	11.715
58 2-Hexanone	+++++	0.52241	0.58690	0.83399	0.82682	0.76079		
	+++++						0.70618	20.259
59 Dibromochloromethane	+++++	0.56059	0.62386	0.85667	0.87362	0.88615		
	+++++						0.76018	20.429
60 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
 End Cal Date : 02-MAY-2005 22:03
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd7.i/7-02maya.b/t141501a.m
 Cal Date : 03-May-2005 19:21 bdunmore
 Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	0.05000 Level 7							
61 1,2-Dibromoethane	0.69229 +++++	0.67486	0.69919	0.89832	0.89310	0.90101	0.79313	14.450
63 Chlorobenzene	1.43012 +++++	1.31445	1.31496	1.60891	1.59245	1.61768	1.47976	9.809
64 Ethyl Benzene	0.79576 +++++	0.65307	0.68249	0.86061	0.86365	0.85940	0.78583	12.134
65 m,p-Xylene	0.85147 1.45077	0.79785	0.83309	1.10119	1.14830	1.20824	1.05585	22.802
66 o-Xylene	0.83394 +++++	0.74182	0.78231	1.03562	1.04587	1.06637	0.91766	16.069
67 Styrene	0.82443 +++++	0.71835	0.82515	1.17986	1.22282	1.24199	1.00210	23.668
68 Bromoform	+++++ +++++	0.42364	0.50229	0.74302	0.76673	0.79114	0.64536	26.290
69 1,3-Dichloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Cumene	+++++ +++++	1.95420	2.00326	2.33768	2.34809	2.33293	2.19523	9.041
72 1,1,2,2-Tetrachloroethane	0.77283 +++++	0.73299	0.84601	1.12567	1.11446	1.08180	0.94563	19.179

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
 End Cal Date : 02-MAY-2005 22:03
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd7.i/7-02maya.b/t141501a.m
 Cal Date : 03-May-2005 19:21 bdunmore
 Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	0.05000 Level 7							
73 Propylbenzene	+++++	1.59824	1.69007	1.86491	1.83417	1.76027		
	+++++						1.74953	6.197
74 4-Ethyltoluene	+++++	1.90466	2.01653	2.26035	2.27672	2.21127		
	+++++						2.13391	7.725
75 1,3,5-Trimethylbenzene	1.82948	1.56309	1.69942	2.17623	2.16876	2.10021		
	+++++						1.92287	13.645
76 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
77 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
78 1,2,4-Trimethylbenzene	1.77998	1.46073	1.54812	2.00535	2.01555	1.93721		
	+++++						1.79116	13.351
79 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
81 1,3-Dichlorobenzene	1.69802	1.40462	1.48853	1.75829	1.77052	1.72589		
	+++++						1.64098	9.445
82 1,4-Dichlorobenzene	1.73269	1.39578	1.47457	1.70148	1.71801	1.67873		
	+++++						1.61688	8.909

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
 End Cal Date : 02-MAY-2005 22:03
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd7.i/7-02maya.b/t141501a.m
 Cal Date : 03-May-2005 19:21 bdunmore
 Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	0.05000 Level 7							
83 alpha-chlorotoluene	0.76642	0.77259	0.91178	1.07676	1.09623	0.99480	0.93643	15.474
84 Indan	1.38887	1.45305	1.61823	1.66297	1.78654	1.58193	10.175	
85 1,2-Dichlorobenzene	1.52063	1.21876	1.33503	1.54250	1.55792	1.48186	1.44278	9.432
86 Indene	0.93980	0.93205	1.05359	1.12755	1.19300	1.04920	10.922	
87 1,2,4-Trichlorobenzene	0.42010	0.62906	0.57480	0.56600	0.38064	0.51412	20.913	
88 Hexachlorobutadiene	0.27398	0.34891	0.44074	0.41591	0.30899	0.35771	19.641	
89 Naphthalene	1.11538	1.16600	0.91794	1.57140	1.51116	1.25638	22.041	
\$ 41 1,2-Dichloroethane-d4	0.91252	0.93698	0.94235	0.98097	1.02664	0.98735	0.95887	4.241
\$ 53 Toluene-d8	0.90784	0.91193	0.91908	0.92881	0.92414	0.91688	0.91825	0.767
\$ 71 Bromofluorobenzene	0.60421	0.59130	0.60124	0.61988	0.60953	0.59174	0.60188	1.725

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2005 19:41
End Cal Date : 02-MAY-2005 22:03
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-02maya.b/t141501a.m
Cal Date : 03-May-2005 19:21 bdunmore
Curve Type : Average

Average %RSD Results.	
=====	
Calculated Average %RSD =	12.5939827
Maximun Average %RSD =	30
* Passed Average %RSD Test.	

Calibration History

Method : /chem/msd7.i/7-02maya.b/t14l501a.m
Start Cal Date: 16-APR-2005 19:41
End Cal Date : 02-MAY-2005 22:03

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
01-MAY-2005 17:00	cal1+t12	/chem/msd7.i/7-01maya.b/7050112.d
Cal Level: 2 , Cal Amount: 0.50000		
21-APR-2005 14:14	sp4	/chem/msd7.i/7-21apr.b/7042103.d
17-APR-2005 11:30	RetecICAL	/chem/msd7.i/7-17apr.b/7041703.d
01-MAY-2005 18:24	AT	/chem/msd7.i/7-01maya.b/7050114.d
Cal Level: 3 , Cal Amount: 2.00000		
21-APR-2005 15:17	sp4	/chem/msd7.i/7-21apr.b/7042104.d
17-APR-2005 12:17	RetecICAL	/chem/msd7.i/7-17apr.b/7041704.d
01-MAY-2005 19:06	AT	/chem/msd7.i/7-01maya.b/7050115.d
Cal Level: 4 , Cal Amount: 10.00000		
21-APR-2005 16:06	sp4	/chem/msd7.i/7-21apr.b/7042105.d
17-APR-2005 13:00	RetecICAL	/chem/msd7.i/7-17apr.b/7041705.d
01-MAY-2005 19:48	AT	/chem/msd7.i/7-01maya.b/7050116.d
Cal Level: 5 , Cal Amount: 20.00000		
21-APR-2005 16:51	sp4	/chem/msd7.i/7-21apr.b/7042106.d
17-APR-2005 14:10	RetecICAL	/chem/msd7.i/7-17apr.b/7041706.d
01-MAY-2005 20:29	AT	/chem/msd7.i/7-01maya.b/7050117.d
Cal Level: 6 , Cal Amount: 40.00000		
21-APR-2005 17:36	sp4	/chem/msd7.i/7-21apr.b/7042107.d
17-APR-2005 15:01	RetecICAL	/chem/msd7.i/7-17apr.b/7041707.d
02-MAY-2005 22:03	AT	/chem/msd7.i/7-02maya.b/7050215.d

```
+-----+-----+-----+
| Cal Level: 7 , Cal Amount: 0.05000 |
+=====+
|01-MAY-2005 17:45 |mp-xylene          |/chem/msd7.i/7-01maya.b/7050113.d |
+-----+-----+-----+
```

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

```
+-----+-----+-----+
| Ccal Level: 4 , Ccal Amount: 10.000 |
+=====+
|03-MAY-2005 03:12 |AT                  |/chem/msd7.i/7-02maya.b/7050219.d |
+-----+-----+-----+
| Ccal Level: 5 , Ccal Amount: 20.000 |
+=====+
|03-MAY-2005 08:11 |RetecCCV           |/chem/msd7.i/7-02maya.b/7050222.d |
+-----+-----+-----+
| Ccal Level: 5 , Ccal Amount: 20.000 |
+=====+
|03-MAY-2005 05:07 |RetecCCV           |/chem/msd7.i/7-02maya.b/7050221.d |
+-----+-----+-----+
| Ccal Level: 5 , Ccal Amount: 20.000 |
+=====+
|03-MAY-2005 04:03 |RetecCCV           |/chem/msd7.i/7-02maya.b/7050220.d |
+-----+-----+-----+
| Ccal Level: 4 , Ccal Amount: 10.000 |
+=====+
|01-MAY-2005 19:48 |AT                  |/chem/msd7.i/7-01maya.b/7050116a.d |
+-----+-----+-----+
```

MSD-7

Logbook #: 1281

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	8.0 - 40.0% of mass 95	
75	30.0 - 66.0% of mass 95	26.64
95	Base peak, 100.00% relative abundance	36.37
96	5.0 - 9.0% of mass 95	1.30
173	Less than 2.0% of mass 174	6.65
174	50.0 - 120.0% of mass 95	(0.62) ¹
175	4.0 - 9.0% of mass 174	30.73
176	93.0 - 101.0% of mass 174	(6.92) ¹
177	5.0 - 9.0% of mass 176	(96.52) ¹

Verify 176/174 m/z Ratio: $\frac{377472/31113}{31113} = 0.965$
¹ - value in parenthesis is % mass 174
² - value in parenthesis is % mass 176

NOAH Cart #: N17 File #: N17

BFB Injection Date: 04-17-05
 BFB Injection Time: 0948
 BFB File ID: 7041701-01
 Tekmar Purge Flow: 1.1 x 1.5-5
 Vacuum: 1.1 x 1.5-5
 IS/S Std.#: 1282-45-5 Exp. Date: 7/16/05
 BCM 245 722
 1,4-DFB 152 3035
 CB-d5 121 2510
 Verified CCV IS vs ICAL mid-point (-40% D) 477

Calculation Check:

ppbv of compound = $\frac{\text{Area Sample}}{\text{Area Is}} \times \frac{\text{Conc. Is}}{\text{RRF}} = \frac{(1274418)}{(1212510)} \times \frac{(10)}{(1.03936)} = 10.11 \text{ ppbv}$
 Reported Result 10.11

File ID: 7041710
 Compound: styrene
 Initials: my

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	7041701	BFB	3427	Song	2912	1.0	✓	4-17-05	0948	✓	
✓	02	System Blank	34027	Humid	500ml		✓		1041	✓	
✓	03	1243-1804 (1.00 MB)	Katek	0.5 MB	2.5 ml		✓		1130	✓	Level 2 Risk
✓	04						✓		1217	✓	3
✓	05						✓		1300	✓	4
✓	06						✓		1410	✓	5
✓	07						✓		1501	✓	6
✓	08						✓		1537	✓	7
✓	09						✓		1645	✓	8

✓	7.4.17	10	1232-14 (5.00bV)	7.0-14	10.11bV	700mL	1.0	FA	4/17/05	1726	nr	CCV
✓	7.4.17	11	1243-113A (5.00bV)	10.11bV	500mL	500mL	1.32	FA	1834	nr	LLS	
X		12	1.4b blank	340.29	Humid	500mL	1.02	FA	1929	nr		
✓		13	Lead blank					FA	2029	nr		
X		14	RETEC 0503415-05A	25306	5.00mL	500mL	1.32	FA	2125	nr		
✓		15	-074A	14114	5.00mL	500mL	1.02	FA	2206	nr		
✓		16	-06A	12081	5.00mL	500mL	1.58	FA	00:17	nr		
✓		17	-074A	341410	5.00mL	500mL	2.14	FA	01:33	nr		
✓		18	-02A	341724	5.00mL	500mL	1.64	FA	02:16	nr		
✓		19	-03A	13858	5.00mL	500mL	1.52	FA	03:01	nr		
✓		20	-01A	914	5.00mL	500mL	2.14	FA	03:46	nr		
✓		21	02AA 3-1724	9.00mL	500mL	500mL	1.91	FA	04:32	nr		
✓		22	Entegre 0504046-01A	70-1544	500mL	500mL	1.61	FA	05:37	nr		
✓		23	0704109-05A	5411	500mL	500mL	1.61	FA	0919	nr		
												</

Comments:

4-1805

Filtered for target

ION ABUNDANCE CRITERIA

m/z	% REL. ABUNDANCE
50	8.0 - 40.0% of mass 95
75	30.0 - 66.0% of mass 95
95	Base peak, 100.00% relative abundance
96	5.0 - 9.0% of mass 95
173	Less than 2.0% of mass 174
174	50.0 - 120.0% of mass 95
175	4.0 - 9.0% of mass 174
176	93.0 - 101.0% of mass 174
177	5.0 - 9.0% of mass 176

Verify 176/174 m/z Ratio: $\frac{116.838}{120.884} = 0.971$

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \left(\frac{\quad}{\quad} \right) \times \left(\frac{\quad}{\quad} \right) = \quad$

Reported Result $\frac{1}{1} = 1$

NOAH Cart #: NA File #: NA

BFB Injection Date: 4-21-05
 BFB Injection Time: 1233
 BFB File ID: 4042101
 Tekmar Purge Flow: NA
 Vacuum: NA
 IS/Std #: 1282-85 Exp. Date: 7/16/05
 BCM 282667
 1,4-DFB 1343212
 CB-d5 1195184
 Verified CCV IS vs ICAL mid-point (-40%AD) NA

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	7042101	BFB TUNE CHECK	813-404	50mm	2.0ul	1.0	MA	4/21/05	1733	MA	
✓	02	system blank	84029	blc	250ml	1.0			1334		
✓	03	ICAL 12-18-1496 (100%)/120.884		0.5ppbv	1.25ml	1.0			1414		
✓	04			2.0ppbv	5.0ml	1.0			1517		
✓	05			2.0ppbv	12.5ml	1.0			1606		
✓	06			2.0ppbv	25ml	1.0			1651		
✓	07			2.0ppbv	50ml	1.0			1736		
✓	08	system blank	34017	500ml	500ml	1.0	EA		1836	EA	
✓	09	system blank	12676	blc	500ml	1.0	EA		1956	EA	

X	10	LC5 1248-165	Bevy	5ppb	12.5 ml/1.0	EA	4/24/05	12055	EA	
X	11	LC5 1248-165	Bevy	5ppb	12.5 ml/1.0	EA	4/24/05	12055	EA	
✓	12	LC5 1248-165	↓	10ppb	250ml	EA	↓	12055	EA	
0	13	System Blank	N/A	Try	250ml	EA	4/22/05	00:29	EA	System blank out
14	14	1248-148 (200ppb)	94302	1.0ppb	2.5ml	EA		0124		MDL 1
15	15					EA		0203		MDL 2
16	16					EA		0243		MDL 3
17	17					EA		0322		MDL 4
18	18					EA		0414		MDL 5
19	19					EA		0511		MDL 6
20	20					EA		0538		MDL 7
21	21	System Blank	N/A	Dry	500ml	EA		0637	07	4-22-05

Comments: Special compounds 5 point calibration.

m/z ION ABUNDANCE CRITERIA % REL. ABUNDANCE

50	8.0 - 40.0% of mass 95	24.76
75	30.0 - 66.0% of mass 95	34.96
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	6.87
173	Less than 2.0% of mass 174	(0.68)
174	50.0 - 120.0% of mass 95	24.87
175	4.0 - 9.0% of mass 174	(7.00)
176	93.0 - 101.0% of mass 174	(96.54)
177	5.0 - 9.0% of mass 176	(6.50)

1 - value in parenthesis is % mass 174
Verify 176/174 m/z Ratio: $\frac{42.144}{438.144} = 96.34$ 2 - value in parenthesis is % mass 176

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$

Reported Result

NOAH Cart #:

File #:

BFB Injection Date: 05-01-05
BFB Injection Time: 1649
BFB File ID: 705011.01
Tekmar Purge Flow: 1
Vacuum: 1
IS/IS Std. #: 1282-85 Exp. Date: 7/16/05
BCM 296007
1,4-DFB 1298066
CB-d5 1186553
Verified CCV IS vs ICAL mid-point (-40% D) 79

File ID:	
Compound:	
Initials:	

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	705011.01	BFB	845-2104	50mg	24L	1.0	✓	05-01-05	1649	✓	
✓	705011.02	Level 1, 1282-123 (214V)		0.114V	25mL	1	✓		1700	✓	
✓	13	m-xylene		0.114V	12.5mL	1	✓		1745	✓	
✓	14	Level 2 1283-123 (214V)		0.514V	125mL	1	✓		1824	✓	
✓	15	Level 3		2.114V	500mL	1	✓		1906	✓	
✓	16	Level 4 1282-130 (20014V)		10.14V	25mL	1	✓		1948	✓	
✓	17	Level 5		20.14V	50mL	1	✓		2029	✓	
✓	18	Level 6		40.14V	100mL	1	✓		2114	✓	
✓	19	System Blank		Blank	500mL	1	✓		2205	✓	RSD 04 for 5mL comp

ION ABUNDANCE CRITERIA

m/z	% REL. ABUNDANCE
50	8.0 - 40.0% of mass 95
75	30.0 - 66.0% of mass 95
95	Base peak, 100.00% relative abundance
96	5.0 - 9.0% of mass 95
173	Less than 2.0% of mass 174
174	50.0 - 120.0% of mass 95
175	4.0 - 9.0% of mass 174
176	93.0 - 101.0% of mass 174
177	5.0 - 9.0% of mass 176

1 - value in parenthesis is % mass 174
2 - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: _____

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \left(\frac{\quad}{\quad} \right) \times \left(\frac{\quad}{\quad} \right) = \left(\frac{\quad}{\quad} \right)$

Reported Result _____

NOAH Cart #: _____ File #: _____

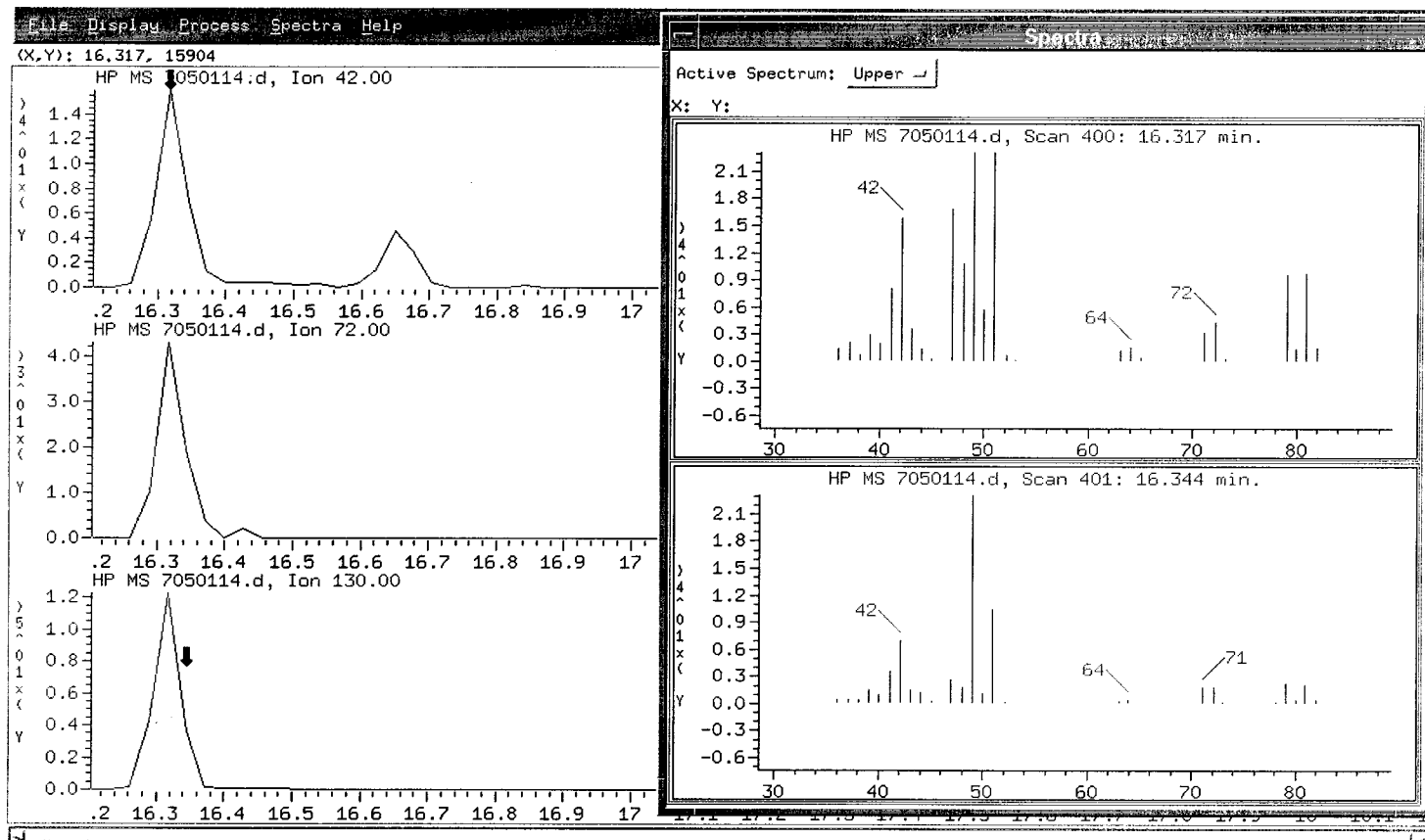
BFB Injection Date: 5.2.05
BFB Injection Time: 19:46
BFB File ID: 7050212
Tekmar Purge Flow: _____
Vacuum: _____
IS/IS Std #: 1282-85 Exp. Date: 7/16/05
BCM 506259
1,4-DFB 1365637
CB-d5 1256594
Verified CCV IS vs ICAL mid-point (-40% D) _____

File ID: _____
Compound: _____
Initials: _____

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	7050212	BFB Time Check	843-1104	5.00g	2.00g	100	72	5/2/05	19:46	✓	
✓	13	Level 10 1282.130 (100ppbv)	40800	40800	2.00g	100	✓	5/2/05	20:12	✓	Good 1000
✓	14	System Blank	12070	40800	500ml	100	✓		21:00	✓	
✓	15	Level 10 1282.130 (100ppbv)	40800	40800	100ml	100	✓		22:03	✓	
✓	16	System Blank	34027	40800	500ml	100	✓		23:34	✓	
✓	17	#1248-159 (100ppbv)	10986	5.00ppbv	25ml	100	✓	5/3/05	00:45	✓	
✓	18	#1248-159 (100ppbv)	10986	5.00ppbv	25ml	100	✓		02:20	✓	LCS
✓	19	#1282-130 (1200ppbv)	4467	10ppbv	25ml	100	✓		03:12	✓	CCV
✓	20	#1243-180A (100ppbv)	4154	10ppbv	50ml	100	✓		04:03	✓	Bad 1000

Date / Initial	Team A
Poor Integration	m 5/3/05
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	✓
Merged Peaks	

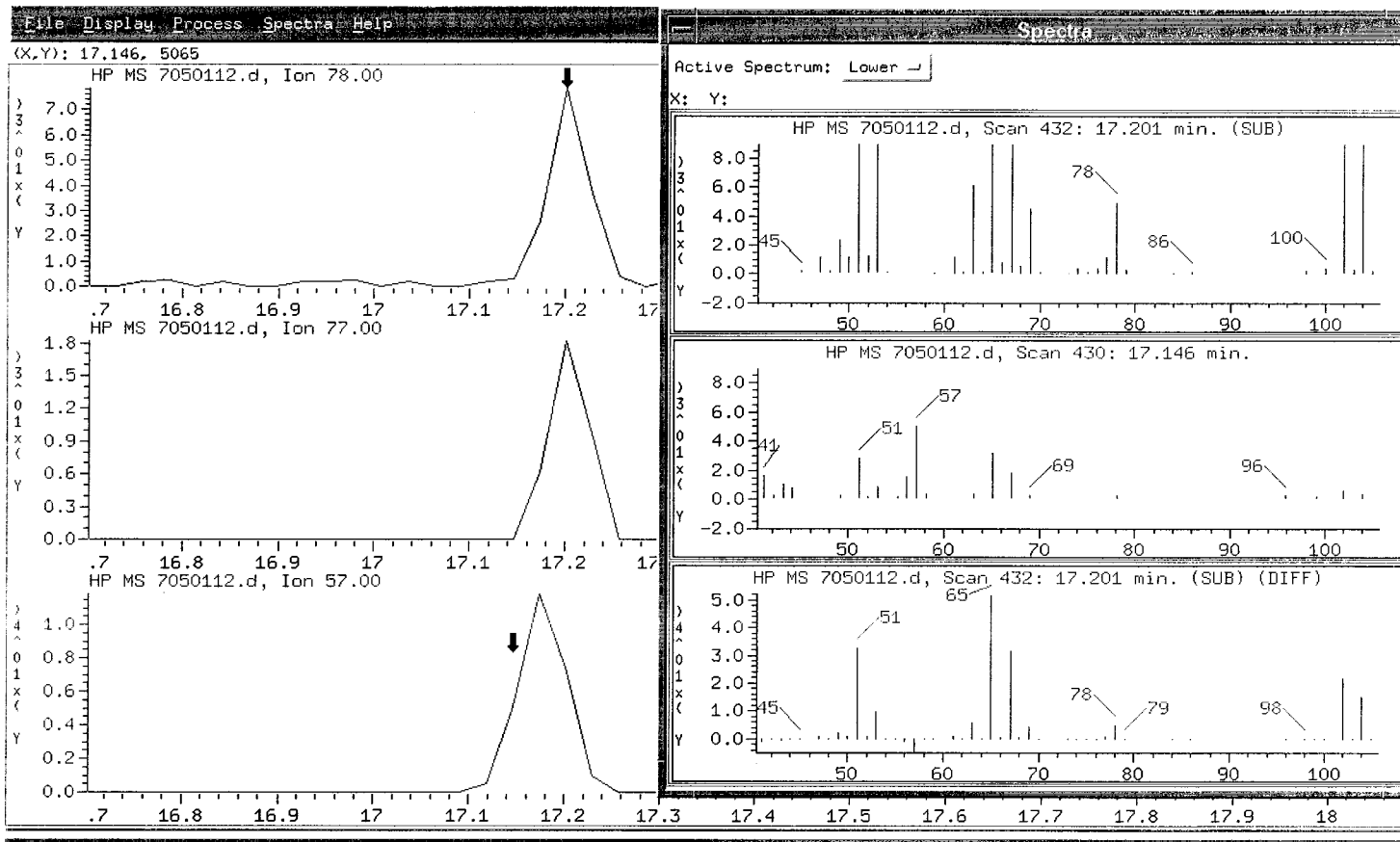
THF



Team A

Date / Initial	NY 5/3/05
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	✓
Missed Peak	
Merged Peaks	

THF Benzene



Initial Calibration Narrative t14l501a

A six point initial calibration was analyzed on May 1, and 2, 2005 on MSD-7. As noted on the accompanying analytical run log, Level 6 was re-analyzed due to a anomalous unacceptable linearity for several compounds.

Some Internal Standards or Surrogates routinely co-elute with target compounds: 1,2-Dichloroethane-d4 interferes with Benzene and Tetrahydrofuran. Background subtraction was performed for on the lowest concentration calibration point to document that acceptable spectra may be derived when interference occurs at the Limit of Quantitation. Inclusion of this documentation within the validation package is intended to preclude the need to repeat the exercise for project samples when similar interference from a specific Surrogate or Internal Standard occurs.

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-21apr.b/7042113.d

Lab Smp Id: System Blank

Inj Date : 22-APR-2005 00:29

Operator : BD

Inst ID: msd7.i

Smp Info : 250mL System Blank

Misc Info : Dry

Comment :

Method : /chem/msd7.i/7-21apr.b/t14l416c.m

Meth Date : 21-Apr-2005 21:38 wwong

Quant Type: ISTD

Cal Date : 21-APR-2005 17:36

Cal File: 7042107.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: sp4.sub

Target Version: 3.50

Sample Matrix: AIR

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

RT	EXP RT	RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
					ON-COL (PPBV)	FINAL (PPBV)		
* 34	Bromochloromethane				CAS #: 74-97-5			
16.317	16.317	(1.000)	130	286535	10.0000		70.00- 130.00	100.00
16.317	16.317	(1.000)	128	219450			48.09- 108.09	76.59
16.317	16.317	(1.000)	49	606127			181.22- 241.22	211.54

* 46	1,4-Difluorobenzene				CAS #: 540-36-3			
17.782	17.782	(1.000)	114	1324568	10.0000		70.00- 130.00	100.00
17.782	17.782	(1.000)	88	172180			0.00- 43.00	13.00

* 62	Chlorobenzene-d5				CAS #: 3114-55-4			
22.123	22.123	(1.000)	117	1173078	10.0000		70.00- 130.00	100.00
22.123	22.123	(1.000)	82	536177			15.78- 75.78	45.71

Report Date: 22-Apr-2005 00:56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7042113.d
Lab Smp Id: System Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: BD
Method File: /chem/msd7.i/7-21apr.b/t141416c.m
Misc Info: Dry

Calibration Date: 21-APR-2005
Calibration Time: 16:06

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	304567	182740	426394	286535	-5.92
46 1,4-Difluorobenze	1410825	846495	1975155	1324568	-6.11
62 Chlorobenzene-d5	1231221	738733	1723709	1173078	-4.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 22-APR-2005 00:29

Client ID:

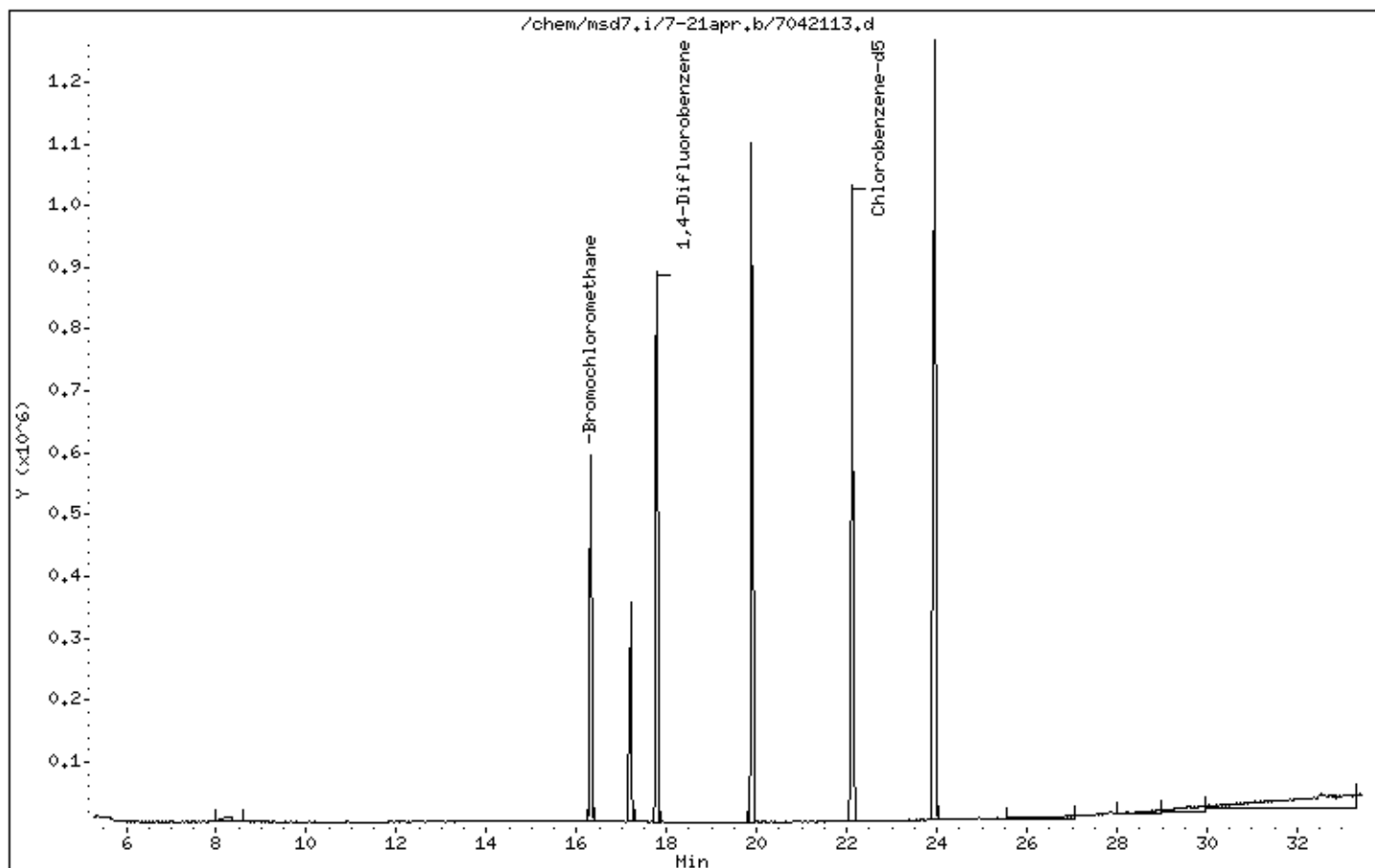
Instrument: msd7.i

Sample Info: 250mL System Blank

Operator: BD

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-17apr.b/7041709.d
Lab Smp Id: Client Smp ID: LCS
Inj Date : 17-APR-2005 16:45
Operator : jeet Inst ID: msd7.i
Smp Info : 25ml #1282-83(200ppbv)
Misc Info : 10ppbv 2nd src Retec (Sp)
Comment :
Method : /chem/msd7.i/7-17apr.b/t141416a.m
Meth Date : 18-Apr-2005 11:25 lsoohoo Quant Type: ISTD
Cal Date : 17-APR-2005 15:01 Cal File: 7041707.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: RetecICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====

* 34 Bromochloromethane						CAS #: 74-97-5			
16.317	16.317	(1.000)	130	290260	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)	128	226918			47.63-	107.63	78.18
16.317	16.317	(1.000)	49	642570			185.53-	245.53	221.38

* 46 1,4-Difluorobenzene						CAS #: 540-36-3			
17.782	17.782	(1.000)	114	1363795	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)	88	184185			0.00-	43.44	13.51

* 62 Chlorobenzene-d5						CAS #: 3114-55-4			
22.123	22.123	(1.000)	117	1149828	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)	82	542250			16.05-	76.05	47.16

10 Isopentane						CAS #: 78-78-4			
10.372	10.372	(0.636)	57	322098	7.65500	7.655	70.00-	130.00	100.00
10.372	10.372	(0.636)	43	569018			135.15-	195.15	176.66
10.372	10.372	(0.636)	42	513847			113.84-	173.84	159.53

22 2-Methylpentane						CAS #: 107-83-5			
13.579	13.579	(0.832)	71	216516	6.45965	6.460	70.00-	130.00	100.00

					CONCENTRATIONS				
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
22 2-Methylpentane (continued)									
13.579	13.579	(0.832)	43	1104011			478.79-	538.79	509.90
13.579	13.579	(0.832)	42	590172			236.46-	296.46	272.58

38 2,3-Dimethylpentane						CAS #:	565-59-3		
16.676	16.676	(0.938)	71	182347	6.31540	6.315	70.00-	130.00	100.00
16.676	16.676	(0.938)	56	767113			390.49-	450.49	420.69
16.676	16.676	(0.938)	43	727176			361.05-	421.05	398.79

40 Isooctane						CAS #:	540-84-1		
17.174	17.174	(1.053)	56	726166	6.49583	6.496	70.00-	130.00	100.00
17.174	17.174	(1.053)	99	83897			0.00-	42.05	11.55
17.174	17.174	(1.053)	41	568880			46.92-	106.92	78.34

45 Thiophene						CAS #:	110-02-1		
17.533	17.533	(0.986)	84	778824	9.41773	9.418	70.00-	130.00	100.00
17.533	17.533	(0.986)	58	634066			50.78-	110.78	81.41
0.000	17.533	(0.000)	0	0			0.00-	30.00	0.00

84 Indan						CAS #:	496-11-7		
26.326	26.326	(1.190)	117	1160771	6.38154	6.382	70.00-	130.00	100.00
26.326	26.326	(1.190)	118	658286			27.47-	87.47	56.71
26.326	26.326	(1.190)	91	148377			0.00-	42.44	12.78

86 Indene						CAS #:	95-13-6		
26.713	26.713	(1.207)	115	1025240	8.49835	8.498	70.00-	130.00	100.00
26.713	26.713	(1.207)	116	1019589			70.82-	130.82	99.45
0.000	26.713	(0.000)	0	0			0.00-	30.00	0.00

89 Naphthalene						CAS #:	91-20-3		
29.948	29.948	(1.354)	128	500304	3.46323	3.463	70.00-	130.00	100.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i	Calibration Date: 17-APR-2005
Lab File ID: 7041709.d	Calibration Time: 17:26
Lab Smp Id:	Client Smp ID: LCS
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: jeet	
Method File: /chem/msd7.i/7-17apr.b/t141416a.m	
Misc Info: 10ppbv 2nd src Retec (Sp)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	285722	171433	400011	290260	1.59
46 1,4-Difluorobenze	1323035	793821	1852249	1363795	3.08
62 Chlorobenzene-d5	1212510	727506	1697514	1149828	-5.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-17apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Client Smp ID: LCS
Level: LOW Operator: jeet
Data Type: MS DATA SampleType: LCS
SpikeList File: RetecLCS.spk Quant Type: ISTD
Sublist File: RetecICAL.sub
Method File: /chem/msd7.i/7-17apr.b/t141416a.m
Misc Info: 10ppbv 2nd src Retec (Sp)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
10 Isopentane	10.000	7.655	76.55	60-140
22 2-Methylpentane	10.000	6.460	64.60	60-140
38 2,3-Dimethylpentan	10.000	6.315	63.15	60-140
40 Isooctane	10.000	6.496	64.96	60-140
45 Thiophene	7.300	9.418	129.01	60-140
84 Indan	10.000	6.382	63.82	60-140
86 Indene	10.000	8.498	84.98	60-140
89 Naphthalene	4.800	3.463	72.15	60-140

Date : 17-APR-2005 16:45

Client ID: LCS

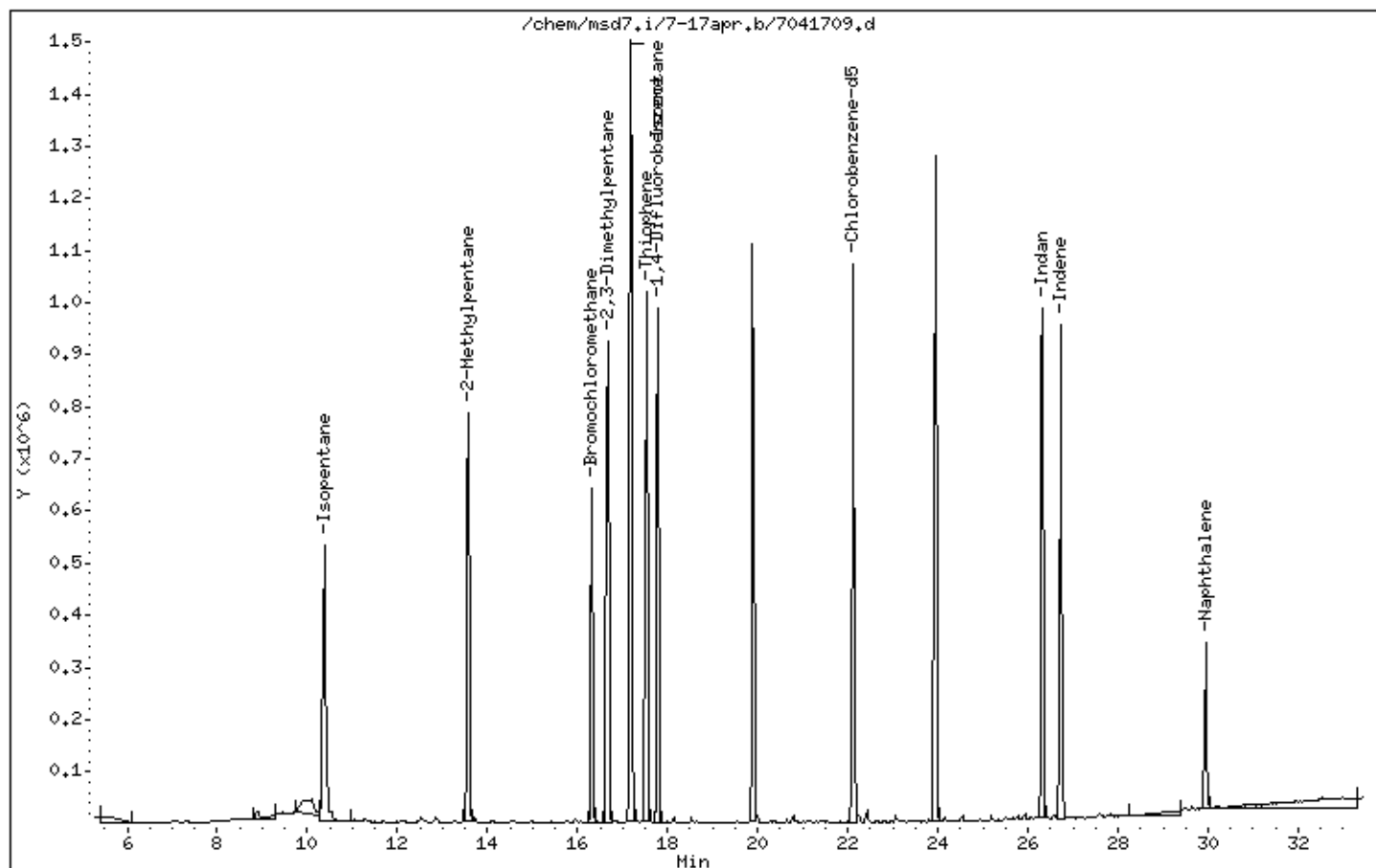
Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

Operator: jeet

Column phase: RTX-624

Column diameter: 0.32



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

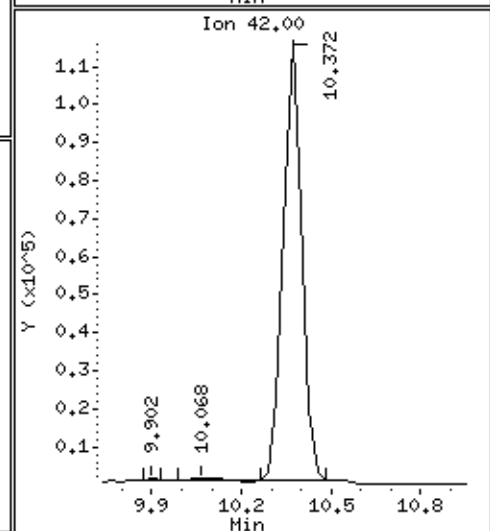
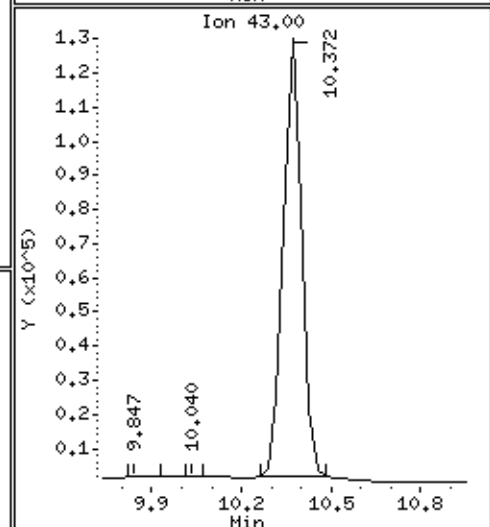
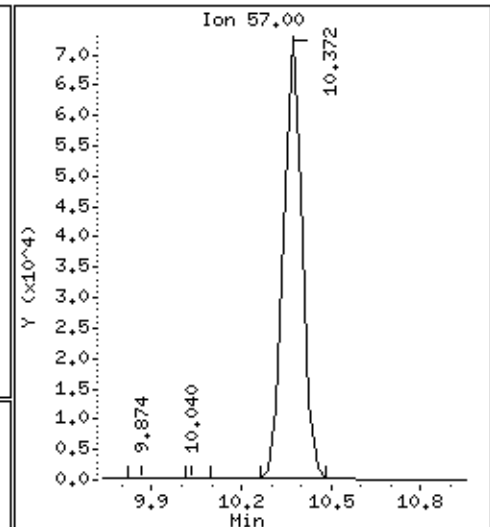
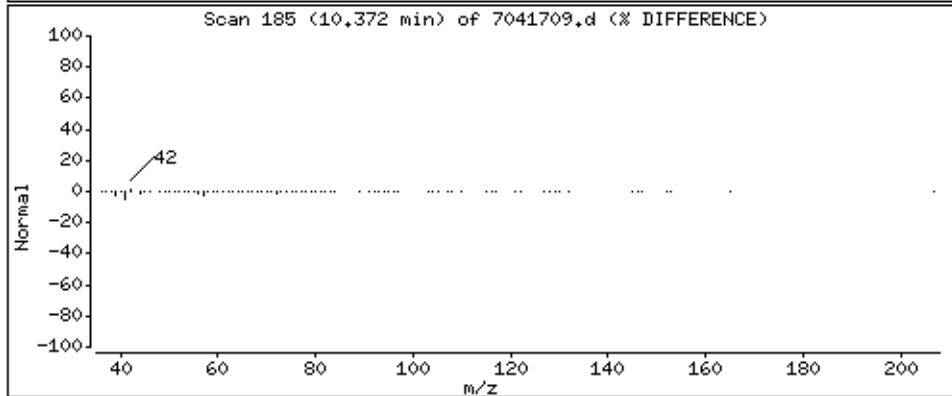
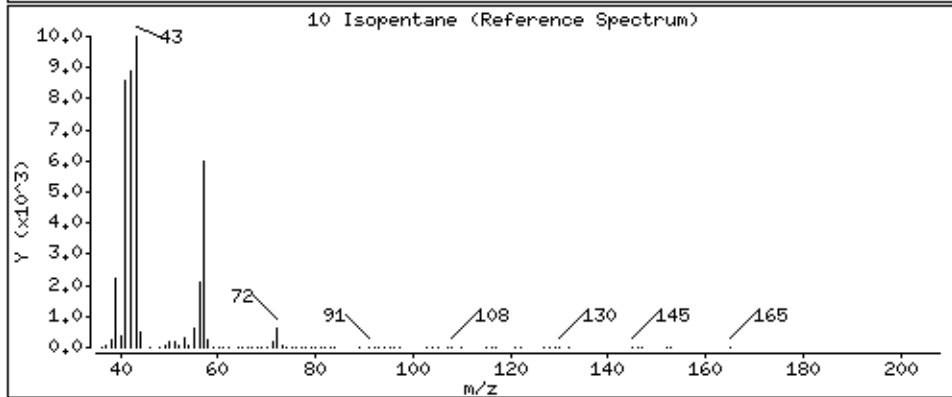
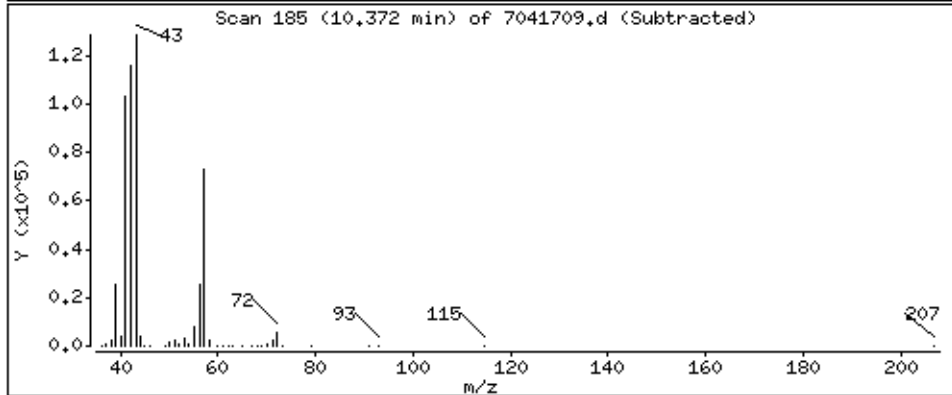
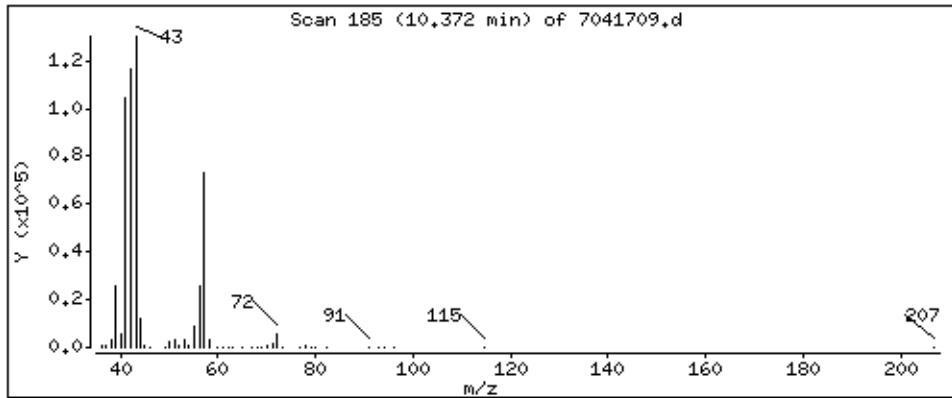
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

10 Isopentane

Concentration: 7.655 PPBV



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

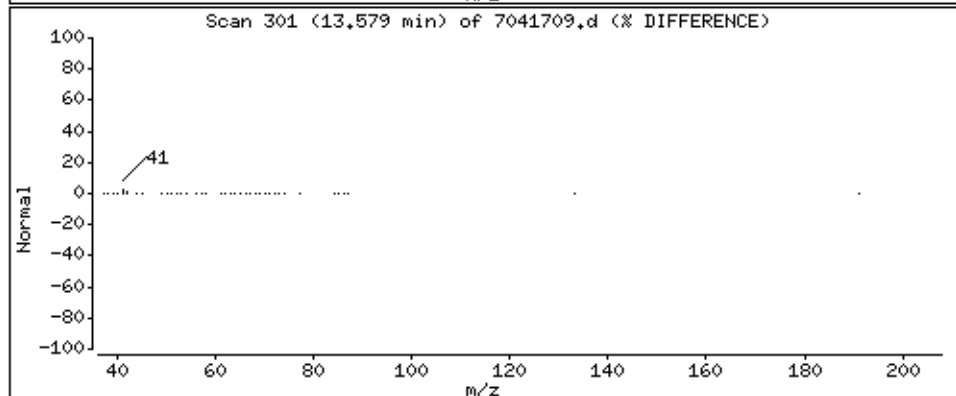
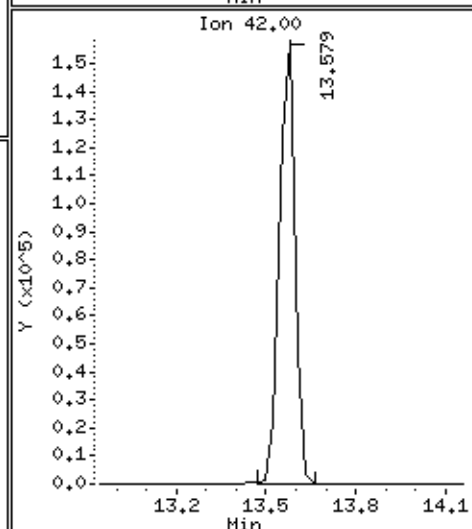
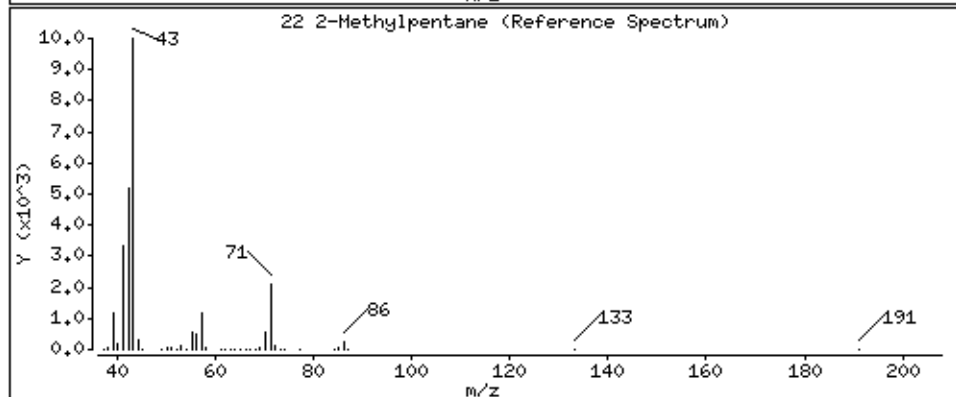
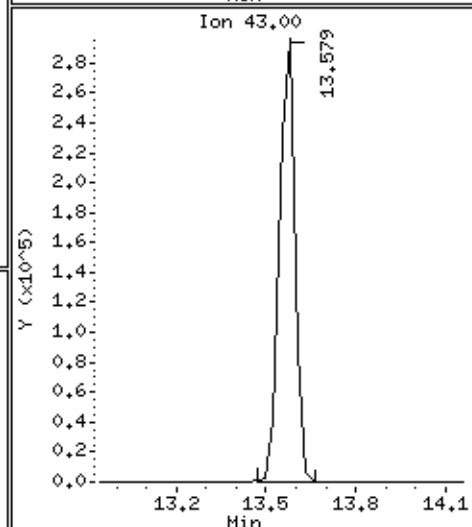
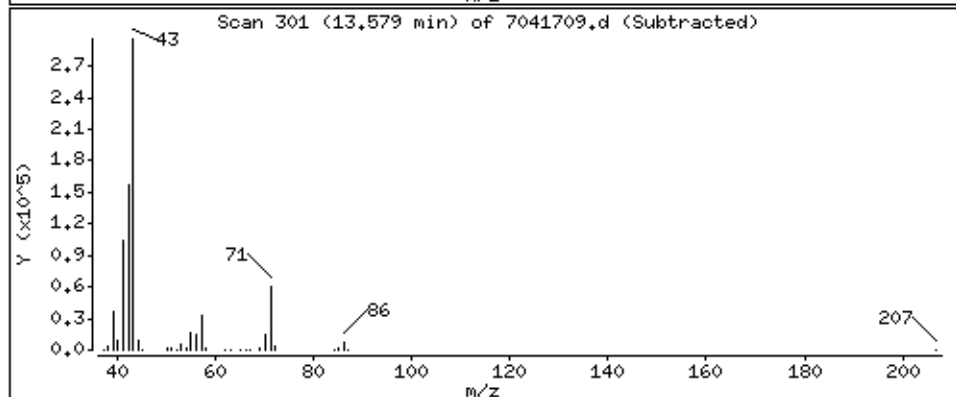
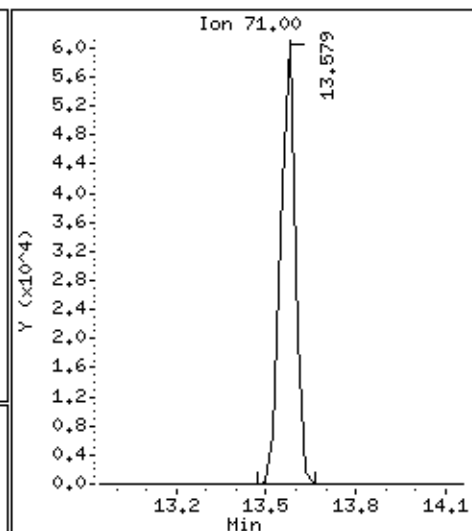
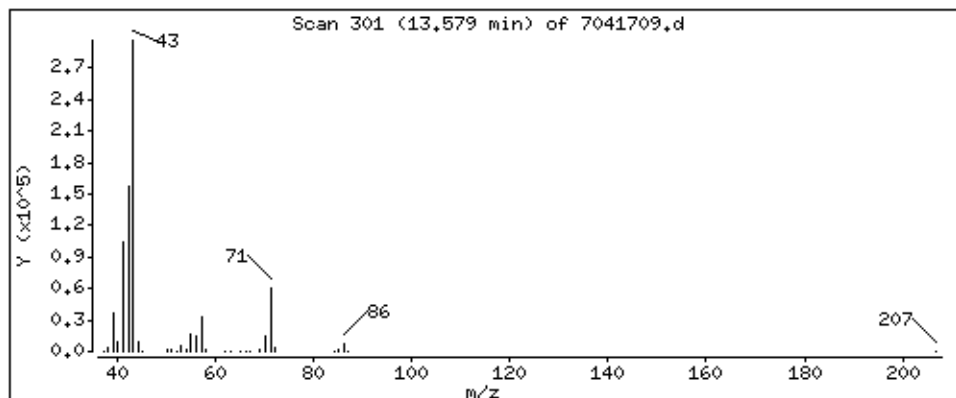
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

22 2-Methylpentane

Concentration: 6.460 PPBV



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

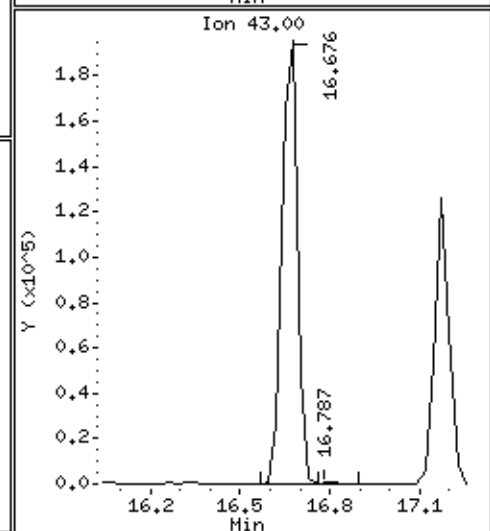
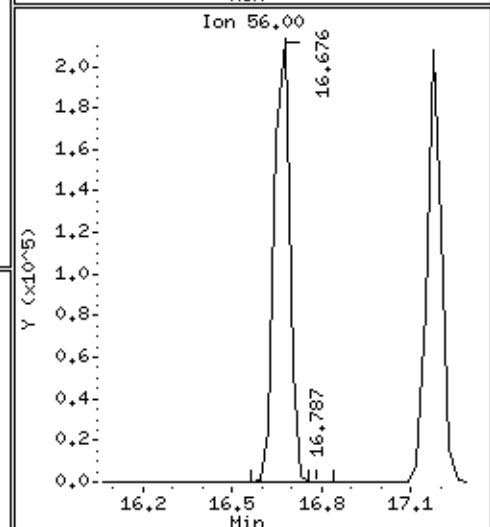
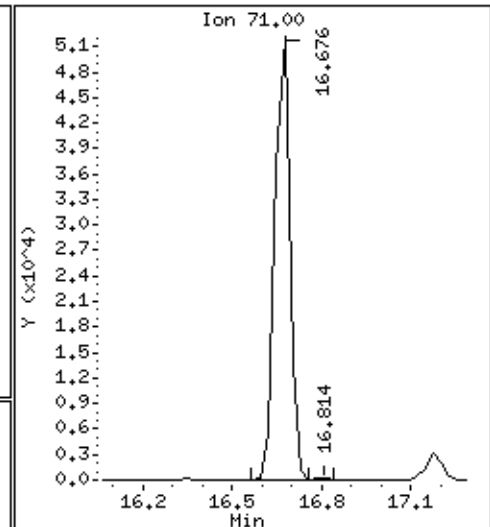
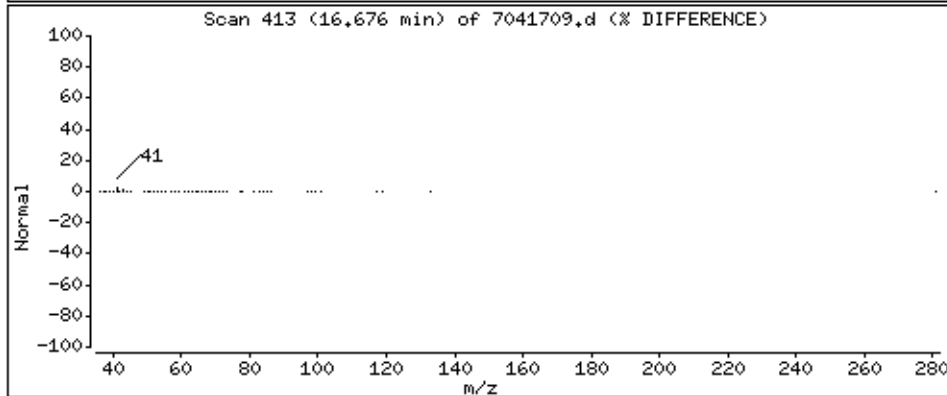
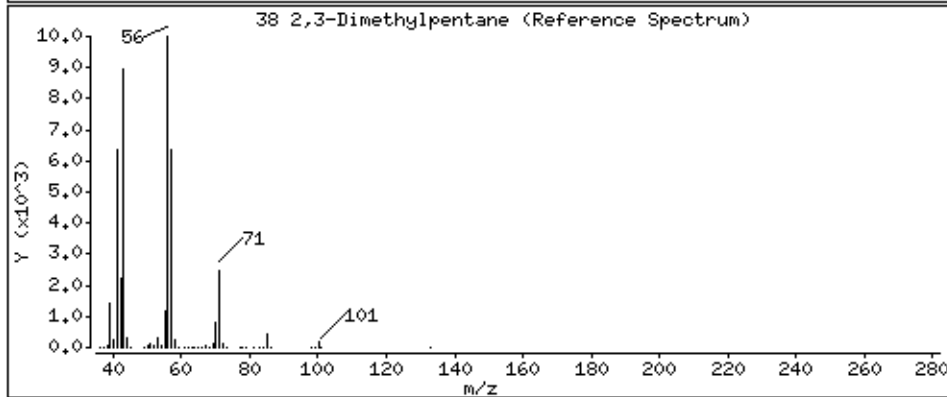
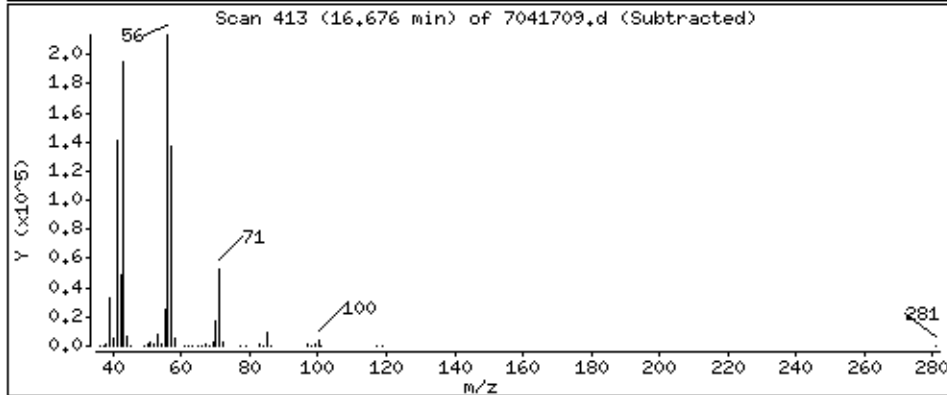
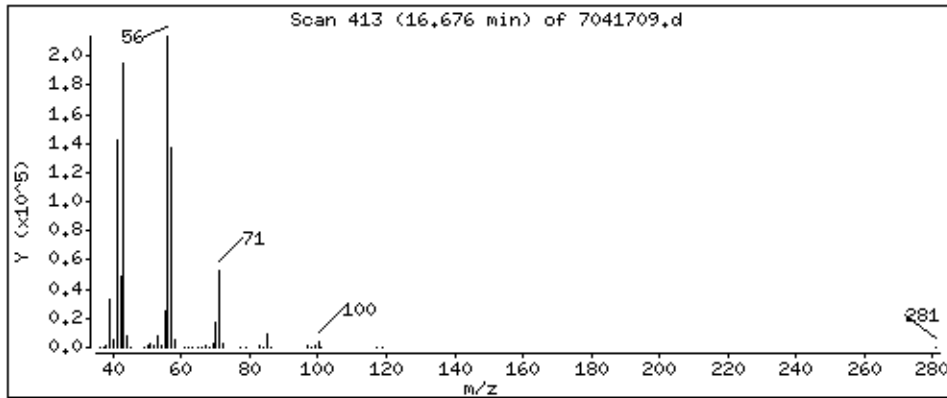
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

38 2,3-Dimethylpentane

Concentration: 6.315 PPBV



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

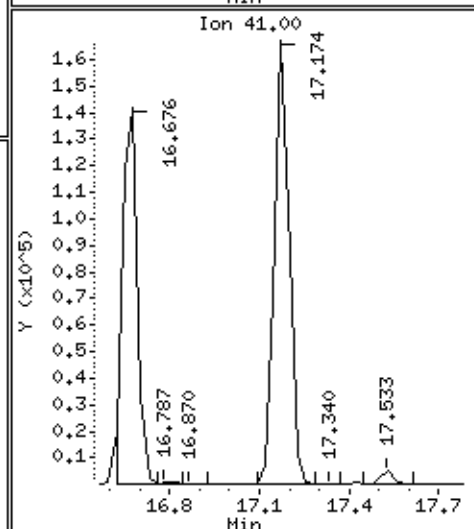
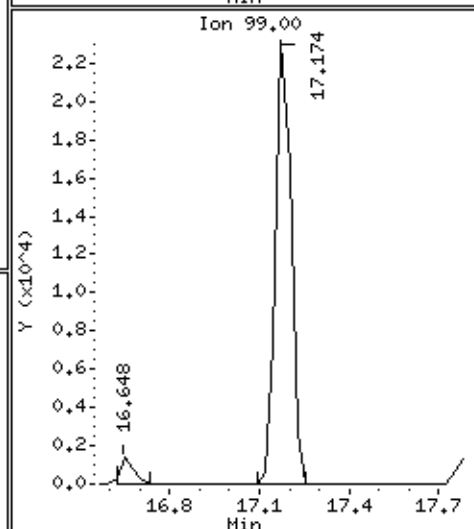
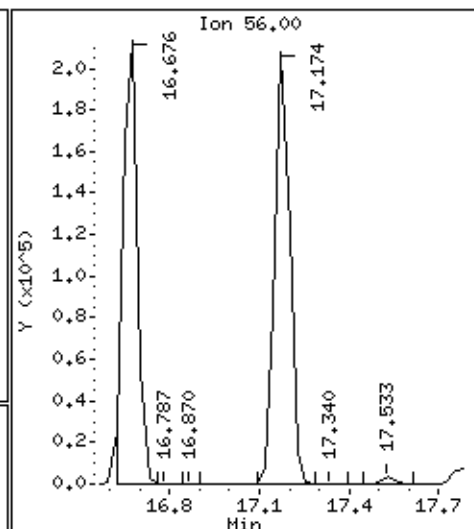
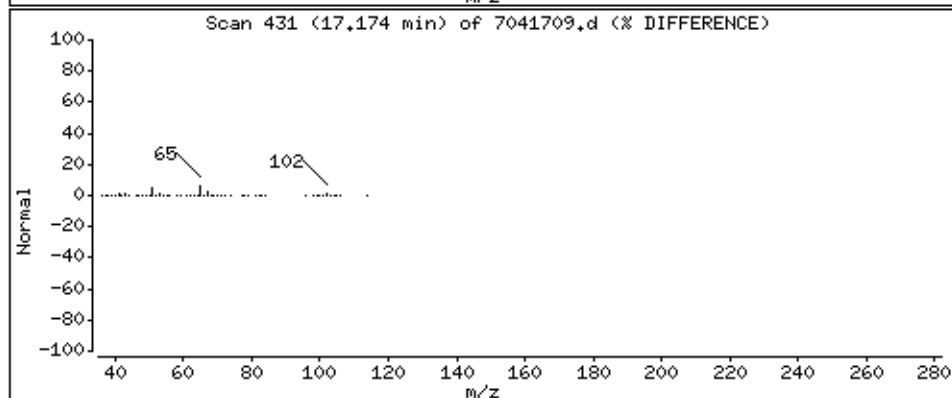
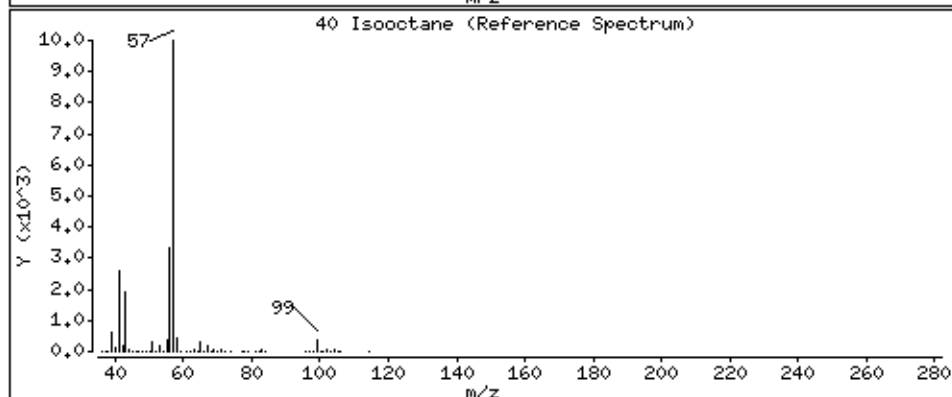
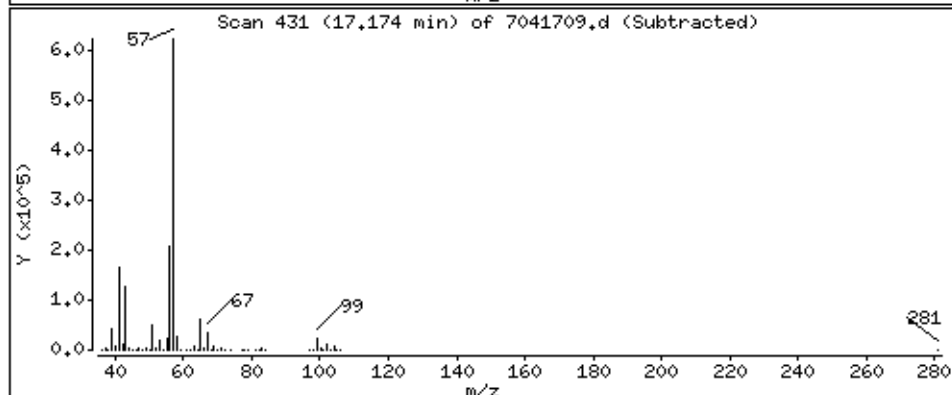
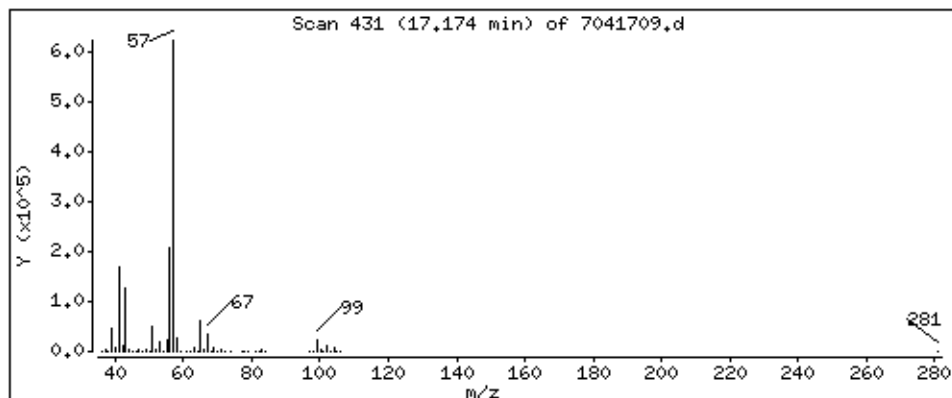
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

40 Isooctane

Concentration: 6.496 PPBV



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

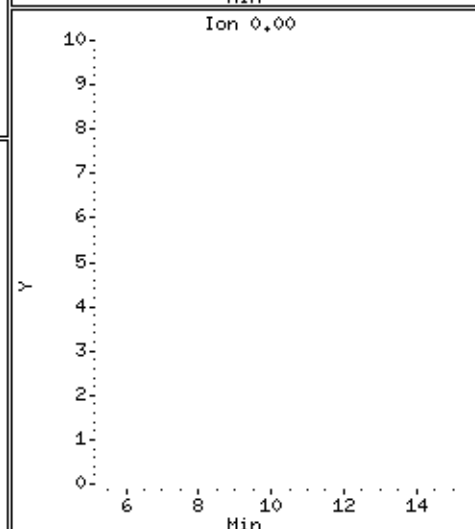
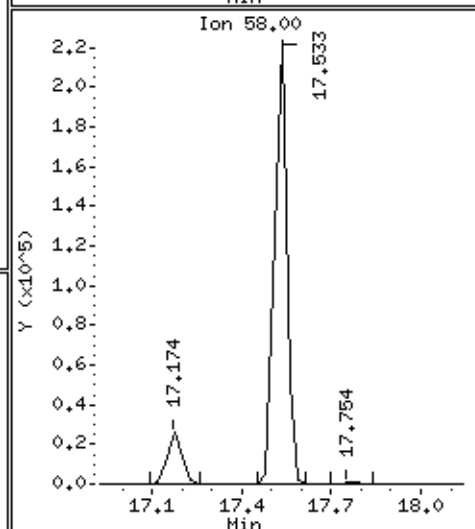
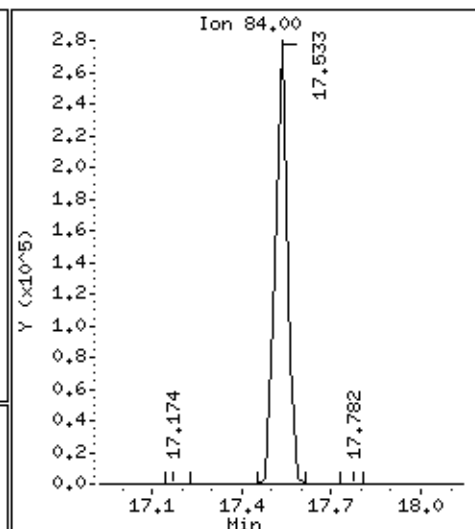
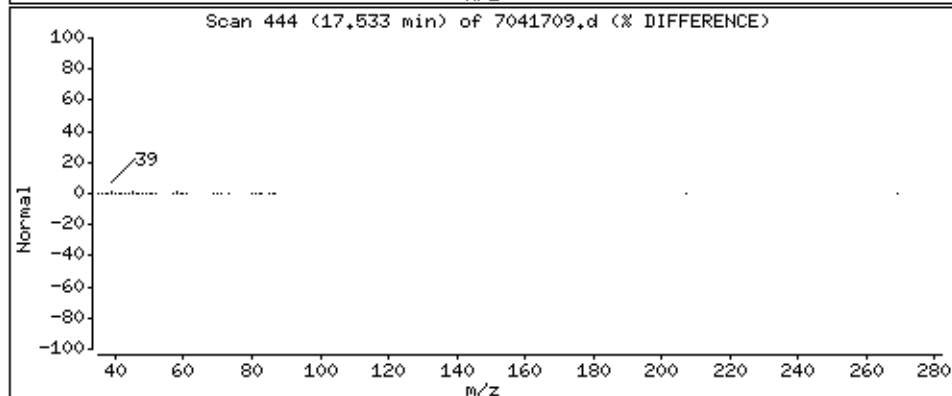
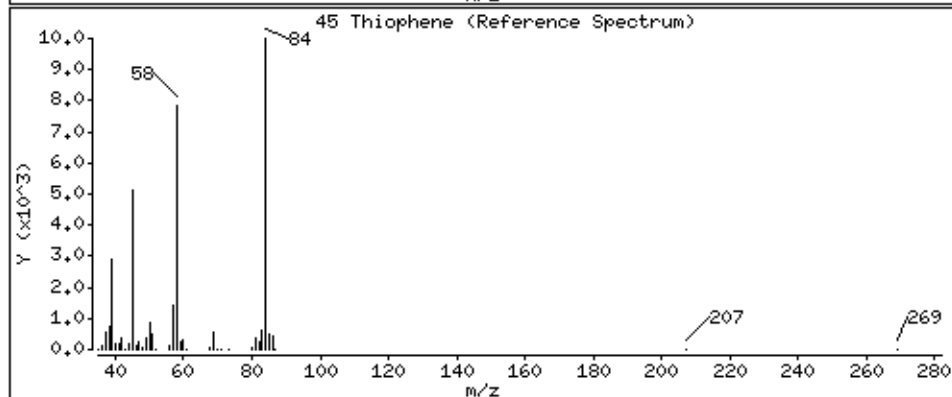
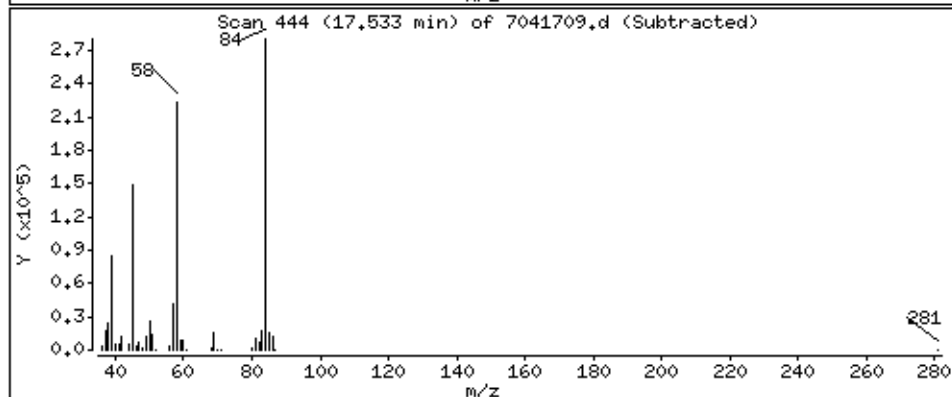
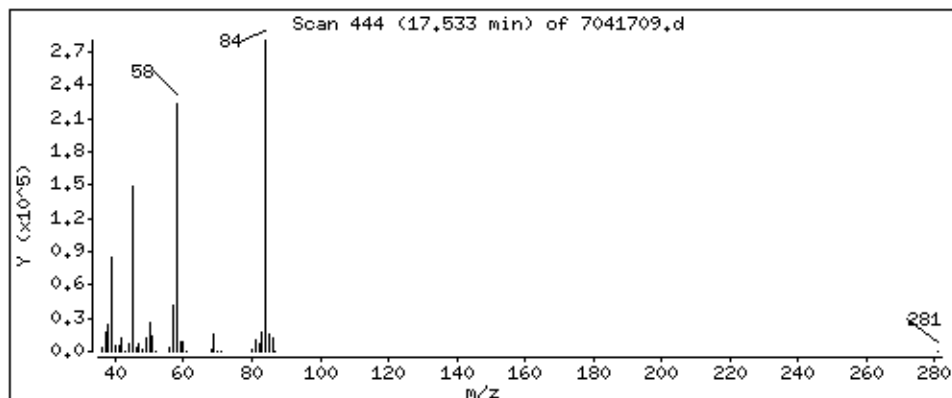
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

45 Thiophene

Concentration: 9.418 PPBV



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

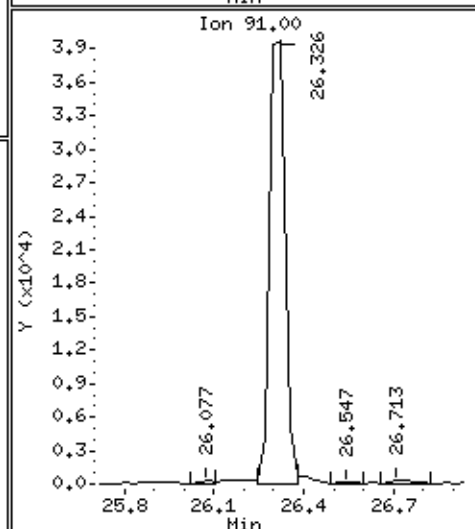
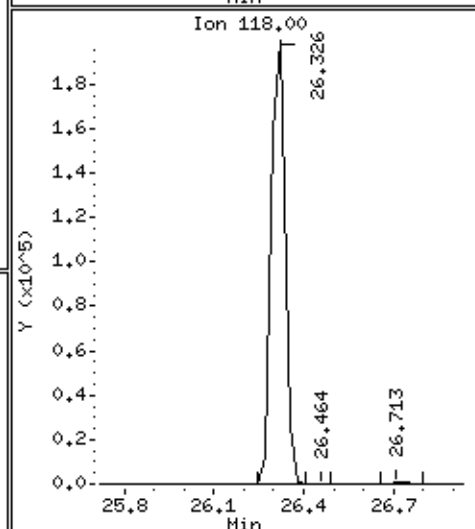
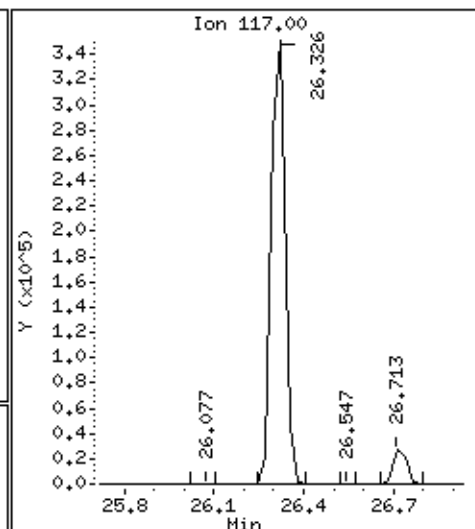
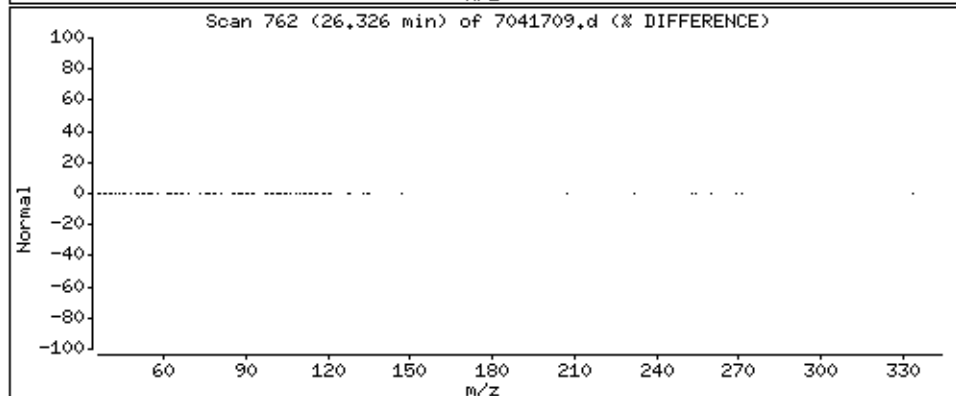
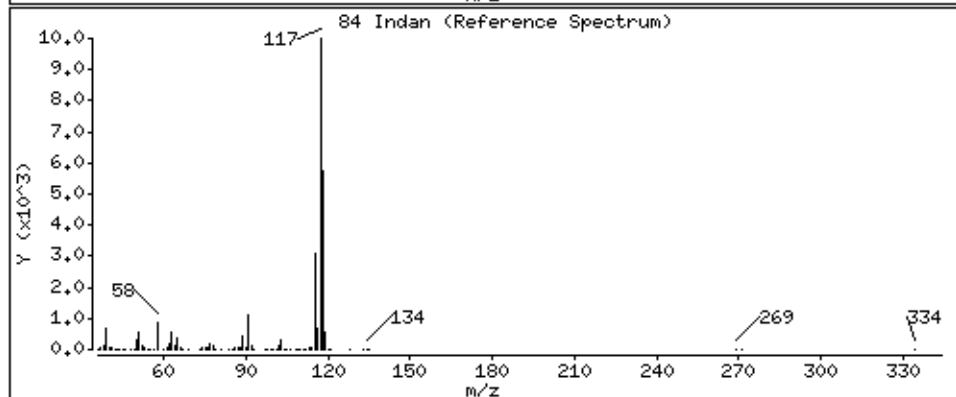
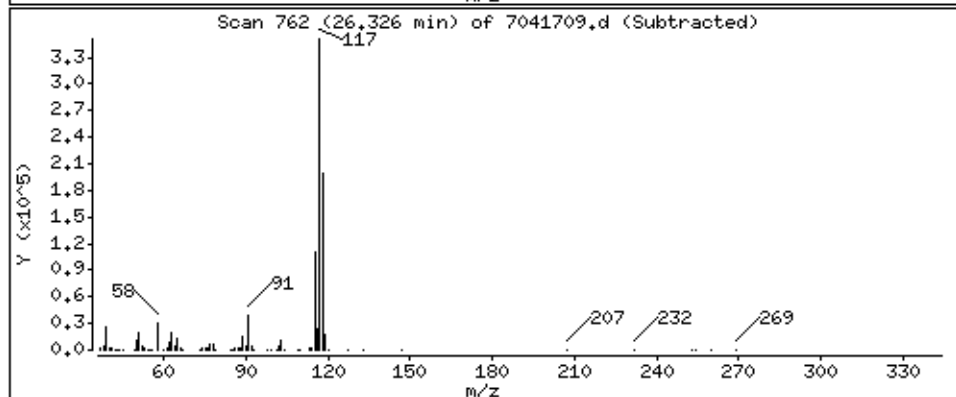
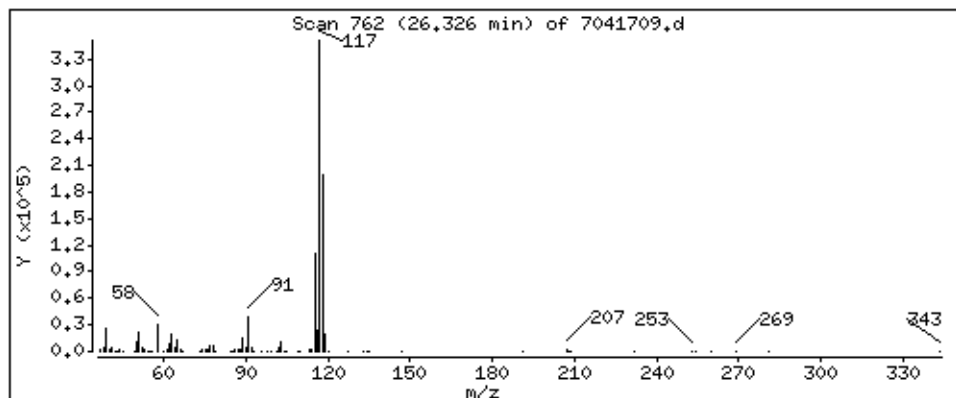
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

84 Indan

Concentration: 6.382 PPBV



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

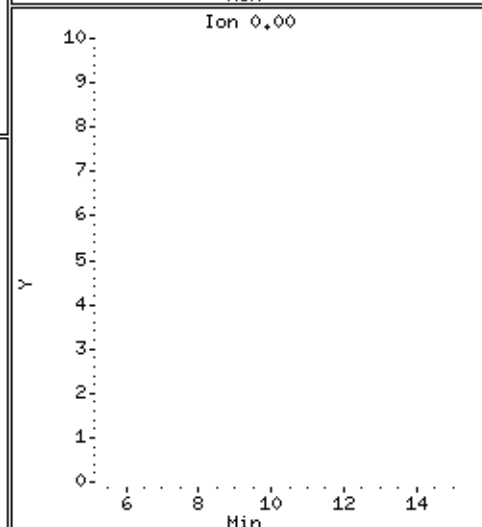
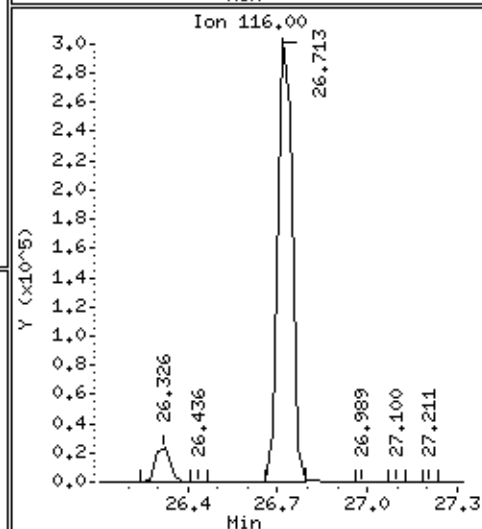
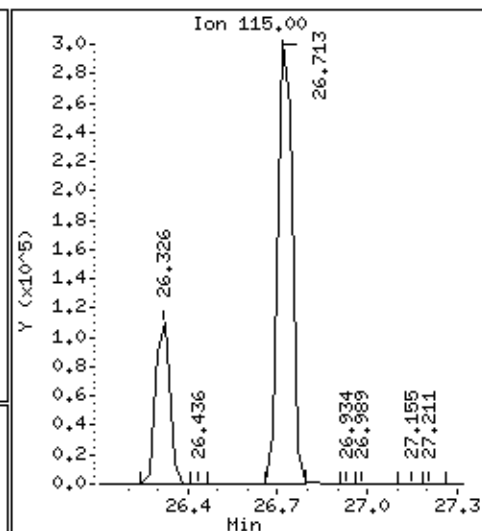
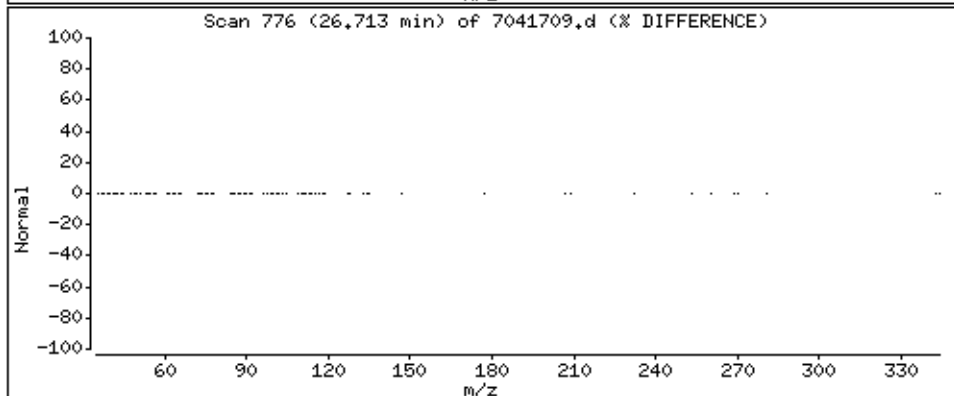
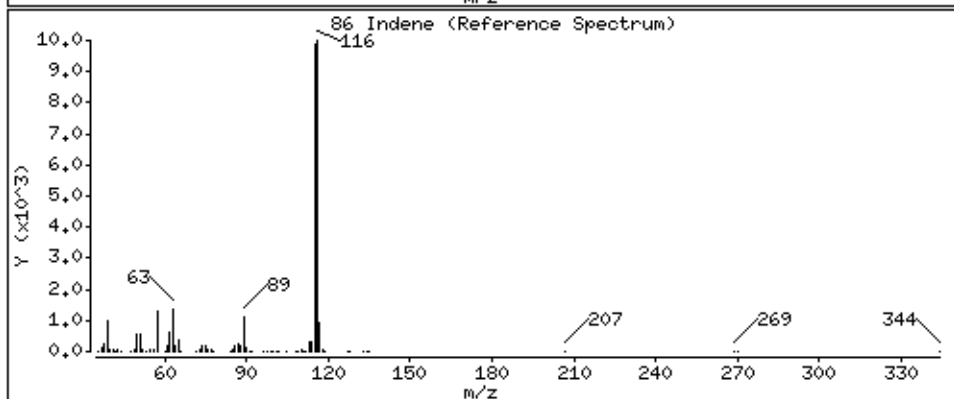
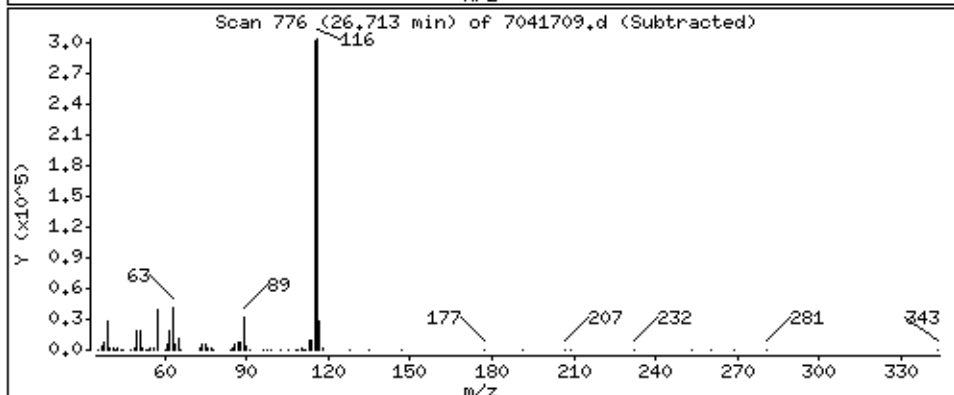
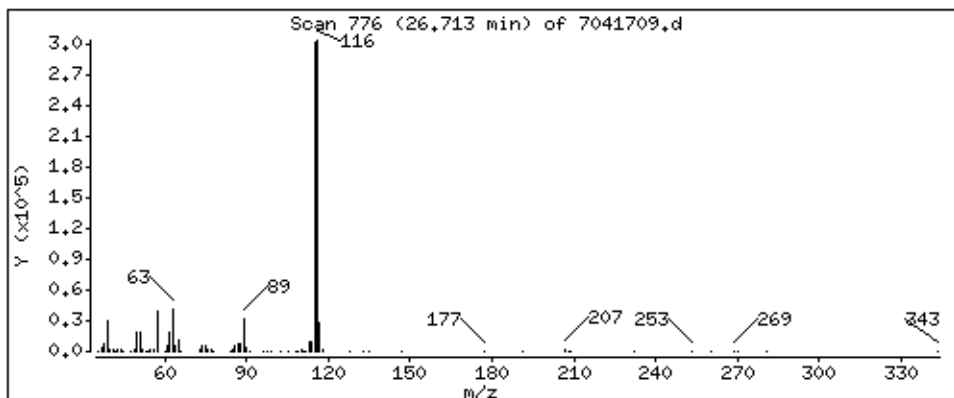
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

86 Indene

Concentration: 8.498 PPBV



Date : 17-APR-2005 16:45

Client ID: LCS

Instrument: msd7.i

Sample Info: 25ml #1282-83(200ppbv)

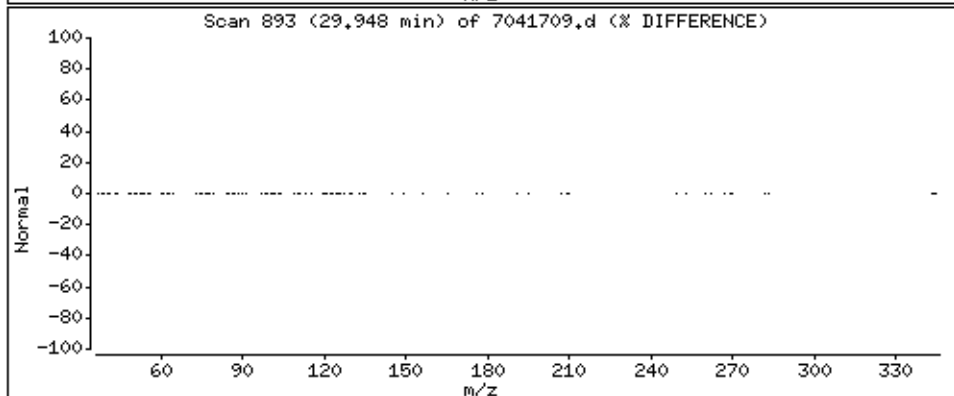
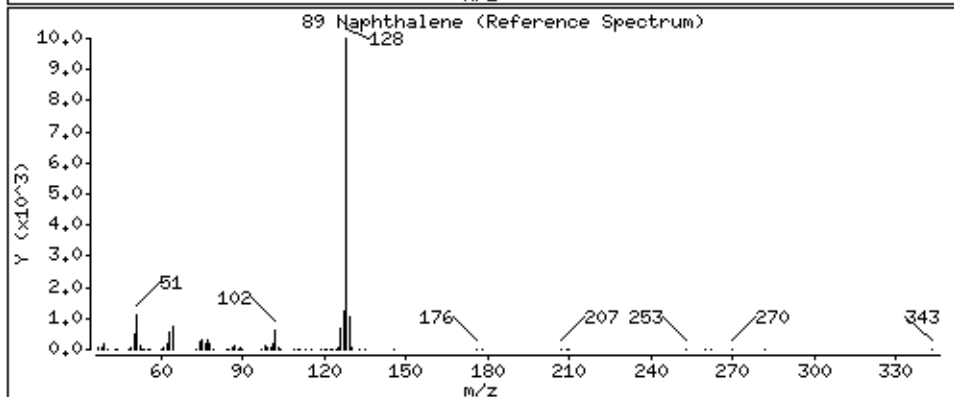
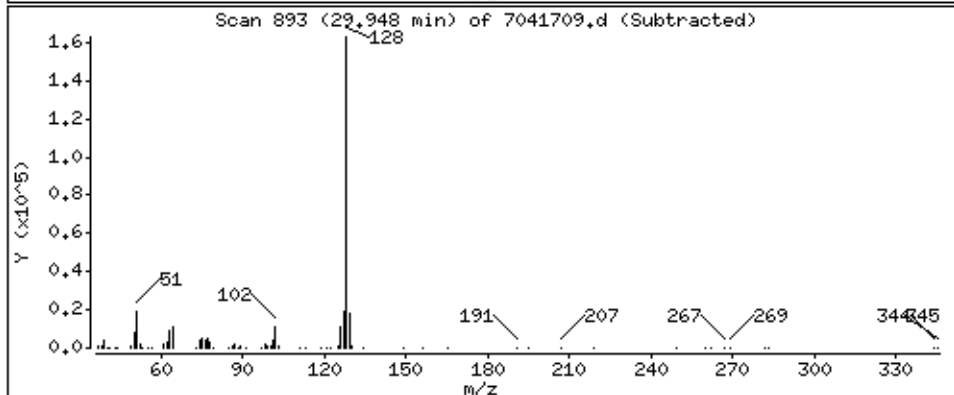
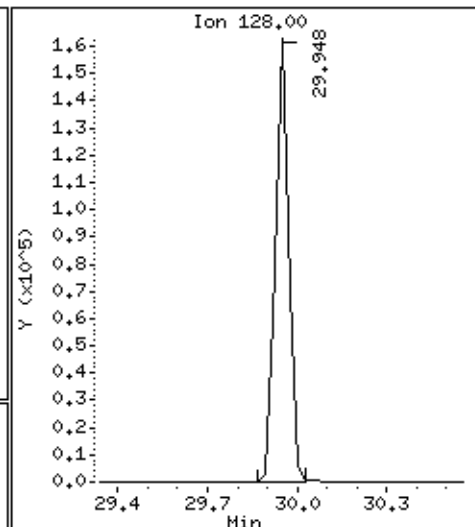
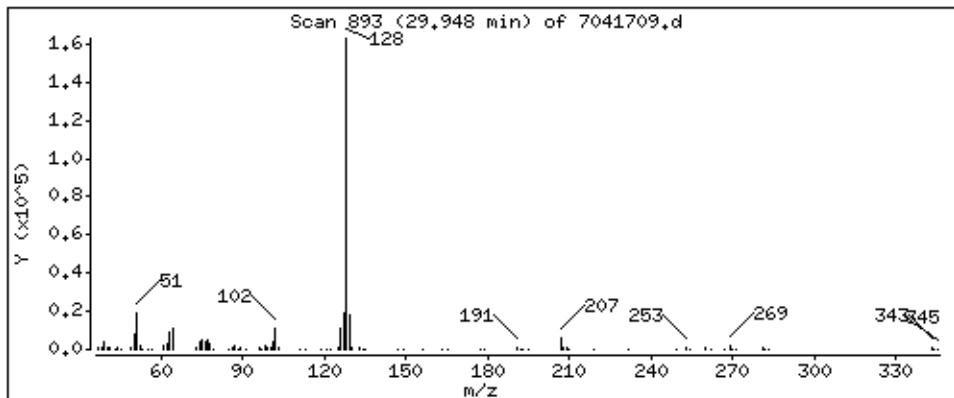
Operator: jeet

Column phase: RTX-624

Column diameter: 0.32

89 Naphthalene

Concentration: 3.463 PPBV



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

```
Data file : /chem/msd7.i/7-02maya.b/7050218.d
Lab Smp Id: LCS                      Client Smp ID: LCS
Inj Date  : 03-MAY-2005 02:20
Operator   : WW                      Inst ID: msd7.i
Smp Info   : #1248-159[100ppbv]
Misc Info  : 25mL [5.0ppbv]
Comment    :
Method      : /chem/msd7.i/7-02maya.b/t14l501a.m
Meth Date  : 04-May-2005 12:21 kbada1 Quant Type: ISTD
Cal Date   : 01-MAY-2005 17:45       Cal File: 7050113.d
Als bottle: 1                         QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE                    Compound Sublist: AT.sub
Target Version: 3.50                 Sample Matrix: AIR
Processing Host: eeyore
```

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
1	1
2	2
3	3
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100	100

RT	EXP	RT (REL	RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET	RANGE	RATIO
						ON-COL	FINAL			
==	=====	=====		=====	(PPBV)	(PPBV)		=====		=====
* 34	Bromochloromethane					CAS #:		74-97-5		
16.317	16.317	(1.000)		130	334364	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)		128	253546			47.67-	107.67	75.83
16.317	16.317	(1.000)		49	583536			141.21-	201.21	174.52

* 46	1,4-Difluorobenzene					CAS #:		540-36-3		
17.782	17.782	(1.000)		114	1464322	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)		88	188565			0.00-	42.46	12.88

* 62	Chlorobenzene-d5					CAS #:		3114-55-4		
22.123	22.123	(1.000)		117	1306392	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)		82	584399			13.88-	73.88	44.73

\$ 41	1,2-Dichloroethane-d4					CAS #:		17060-07-0		
17.201	17.201	(1.054)		65	301196	9.39442	9.394	80.00-	120.00	100.00
17.201	17.201	(1.054)		67	177458			39.84-	99.84	58.92

\$ 53	Toluene-d8					CAS #:		2037-26-5		
19.883	19.883	(1.118)		98	1328094	9.87710	9.877	80.00-	120.00	100.00
19.883	19.883	(1.118)		70	114217			0.00-	38.50	8.60

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 53 Toluene-d8 (continued)									
19.883	19.883	(1.118)	100	909674			38.80- 98.80	68.49	

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	785168	9.98566	9.986	80.00- 120.00	100.00	
23.948	23.948	(1.082)	95	819355			74.01- 134.01	104.35	
23.948	23.948	(1.082)	176	762340			66.76- 126.76	97.09	

1 Propylene						CAS #:	115-07-1		
5.589	5.589	(0.342)	41	339958	3.86415	3.864	80.00- 120.00	100.00	
5.589	5.589	(0.342)	42	237980			37.25- 97.25	70.00	
5.589	5.589	(0.342)	39	231525			35.80- 95.80	68.10	

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.920	(0.365)	85	460915	4.56176	4.562	80.00- 120.00	100.00	
5.948	5.920	(0.365)	87	146950			1.82- 61.82	31.88	

3 Freon 114						CAS #:	76-14-2		
7.054	7.054	(0.432)	135	438733	4.54018	4.540	80.00- 120.00	100.00	
7.082	7.054	(0.434)	137	139545			1.56- 61.56	31.81	

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	401242	4.38102	4.381	80.00- 120.00	100.00	
7.303	7.303	(0.448)	52	123053			1.37- 61.37	30.67	

5 Vinyl Chloride						CAS #:	75-01-4		
8.077	8.077	(0.495)	62	332364	4.37514	4.375	80.00- 120.00	100.00	
8.077	8.077	(0.495)	64	94654			0.00- 59.22	28.48	

7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.298	(0.509)	54	325417	5.22199	5.222	80.00- 120.00	100.00	
8.298	8.298	(0.509)	39	330285			69.23- 129.23	101.50	

8 Bromomethane						CAS #:	74-83-9		
9.708	9.708	(0.595)	94	179664	3.71321	3.713	80.00- 120.00	100.00	
9.708	9.708	(0.595)	96	169397			64.25- 124.25	94.29	

9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	121264	3.59998	3.600	80.00- 120.00	100.00	
10.206	10.206	(0.626)	66	35878			0.00- 58.86	29.59	

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	414845	4.90708	4.907	80.00- 120.00	100.00	
11.036	11.036	(0.676)	103	265214			34.66- 94.66	63.93	

14 Ethanol						CAS #:	64-17-5		
12.031	12.003	(0.737)	45	121107	4.03515	4.035	80.00- 120.00	100.00	

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol (continued)									
12.031	12.003	(0.737)	43	22633			0.00-	47.77	18.69
12.031	12.003	(0.737)	46	49471			10.78-	70.78	40.85

17 Freon 113						CAS #:	76-13-1		
12.556	12.529	(0.770)	151	374130	4.78272	4.783	80.00-	120.00	100.00
12.556	12.529	(0.770)	153	238524			33.07-	93.07	63.75
12.529	12.529	(0.768)	101	398204			74.46-	134.46	106.43

16 1,1-Dichloroethene						CAS #:	75-35-4		
12.529	12.529	(0.768)	98	154875	4.72623	4.726	80.00-	120.00	100.00
12.529	12.529	(0.768)	61	408045			218.76-	278.76	263.47
12.529	12.529	(0.768)	96	244376			127.21-	187.21	157.79

29 Vinyl Acetate						CAS #:	108-05-4		
15.045	15.045	(0.922)	43	63243	2.64726	2.647	80.00-	120.00	100.00(R)
15.045	15.045	(0.922)	42	5722			0.00-	36.61	9.05
15.072	15.045	(0.924)	86	3787			0.00-	36.81	5.99

18 Acetone						CAS #:	67-64-1		
12.833	12.805	(0.786)	43	531195	4.59426	4.594	80.00-	120.00	100.00
12.833	12.805	(0.786)	58	166250			1.60-	61.60	31.30

20 2-Propanol						CAS #:	67-63-0		
13.220	13.220	(0.810)	45	893872	7.52384	7.524	80.00-	120.00	100.00(R)
13.220	13.220	(0.810)	43	144802			0.00-	45.32	16.20
13.220	13.220	(0.810)	59	29790			0.00-	33.28	3.33

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	637785	5.03557	5.036	80.00-	120.00	100.00

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	206396	4.65991	4.660	80.00-	120.00	100.00
13.718	13.718	(0.841)	49	409019			163.14-	223.14	198.17
13.718	13.718	(0.841)	51	122638			26.82-	86.82	59.42

24 MTBE						CAS #:	1634-04-4		
14.132	14.132	(0.866)	73	541262	4.88066	4.881	80.00-	120.00	100.00
14.132	14.132	(0.866)	57	198715			6.00-	66.00	36.71
14.132	14.132	(0.866)	41	211882			5.78-	65.78	39.15

25 trans-1,2-Dichloroethene						CAS #:	156-60-5		
14.160	14.160	(0.868)	98	171660	5.80740	5.807	80.00-	120.00	100.00
14.160	14.160	(0.868)	61	404532			206.73-	266.73	235.66
14.160	14.160	(0.868)	96	266768			128.21-	188.21	155.40

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
27 Hexane						CAS #:	110-54-3		
14.575	14.547	(0.893)	57	564818	4.86446	4.864	80.00- 120.00	100.00	
14.547	14.547	(0.892)	43	419486			41.99- 101.99	74.27	
14.575	14.547	(0.893)	86	70286			0.00- 42.67	12.44	

28 1,1-Dichloroethane						CAS #:	75-34-3		
14.990	14.989	(0.919)	63	459466	4.53620	4.536	80.00- 120.00	100.00	
14.990	14.989	(0.919)	65	129327			0.00- 58.54	28.15	

32 2-Butanone						CAS #:	78-93-3		
15.957	15.957	(0.978)	72	120084	4.71315	4.713	80.00- 120.00	100.00	
15.957	15.957	(0.978)	43	1690889			622.31- 682.31	1408.09	
15.957	15.957	(0.978)	57	51106			11.54- 71.54	42.56	

31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.930	15.930	(0.976)	98	166425	4.12218	4.122	80.00- 120.00	100.00	
15.930	15.930	(0.976)	61	463788			184.72- 244.72	278.68	
15.930	15.930	(0.976)	96	265074			126.82- 186.82	159.28	

33 Tetrahydrofuran						CAS #:	109-99-9		
16.317	16.317	(1.000)	42	484187	4.58033	4.580	80.00- 120.00	100.00	
16.317	16.317	(1.000)	71	110265			0.00- 52.36	22.77	
16.317	16.317	(1.000)	72	120018			0.00- 54.85	24.79	

35 Chloroform						CAS #:	67-66-3		
16.400	16.400	(1.005)	83	388079	4.49893	4.499	80.00- 120.00	100.00	
16.400	16.400	(1.005)	85	252605			34.58- 94.58	65.09	

37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.648	(1.020)	97	354450	4.05495	4.055	80.00- 120.00	100.00	
16.648	16.648	(1.020)	99	224693			34.82- 94.82	63.39	

36 Cyclohexane						CAS #:	110-82-7		
16.648	16.648	(1.020)	84	364880	4.89787	4.898	80.00- 120.00	100.00	
16.648	16.648	(1.020)	56	607200			129.56- 189.56	166.41	
16.648	16.648	(1.020)	41	343613			56.71- 116.71	94.17	

39 Carbon Tetrachloride						CAS #:	56-23-5		
16.870	16.870	(1.034)	119	372936	4.38881	4.389	80.00- 120.00	100.00	
16.870	16.870	(1.034)	117	364258			67.15- 127.15	97.67	

42 Benzene						CAS #:	71-43-2		
17.201	17.201	(0.967)	78	724052	4.00000	4.000	80.00- 120.00	100.00	
17.201	17.201	(0.967)	77	163039			0.00- 51.60	22.52	

43 1,2-Dichloroethane						CAS #:	107-06-2		
17.312	17.312	(0.974)	62	246726	4.15842	4.158	80.00- 120.00	100.00	

		CONCENTRATIONS								
		ON-COL			FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	
43 1,2-Dichloroethane (continued)										
17.312	17.312	(0.974)	64	74847			0.00-	59.97	30.34	

44 Heptane						CAS #:	142-82-5			
17.423	17.423	(0.980)	43	781148	4.96593	4.966	80.00-	120.00	100.00	
17.423	17.423	(0.980)	57	356421			15.52-	75.52	45.63	
17.450	17.423	(0.981)	100	100483			0.00-	42.74	12.86	

47 Trichloroethene						CAS #:	79-01-6			
18.142	18.141	(1.020)	130	424436	4.18812	4.188	80.00-	120.00	100.00	
18.142	18.141	(1.020)	95	338941			47.95-	107.95	79.86	
18.142	18.141	(1.020)	97	217761			20.27-	80.27	51.31	

48 1,2-Dichloropropane						CAS #:	78-87-5			
18.529	18.529	(1.042)	63	289478	4.00791	4.008	80.00-	120.00	100.00	
18.529	18.529	(1.042)	62	211557			43.35-	103.35	73.08	
18.529	18.529	(1.042)	41	187574			33.15-	93.15	64.80	

49 1,4-Dioxane						CAS #:	123-91-1			
18.639	18.639	(1.048)	88	171585	4.95067	4.951	80.00-	120.00	100.00	
18.639	18.639	(1.048)	58	155522			61.75-	121.75	90.64	
18.639	18.639	(1.048)	57	45952			0.00-	56.51	26.78	

50 Bromodichloromethane						CAS #:	75-27-4			
18.888	18.888	(1.062)	83	398339	4.59601	4.596	80.00-	120.00	100.00	
18.888	18.888	(1.062)	85	255641			34.29-	94.29	64.18	

51 cis-1,3-Dichloropropene						CAS #:	10061-01-5			
19.552	19.552	(1.099)	75	354818	4.60168	4.602	80.00-	120.00	100.00	
19.552	19.552	(1.099)	77	110378			1.67-	61.67	31.11	
19.552	19.552	(1.099)	39	256609			43.79-	103.79	72.32	

52 4-Methyl-2-pentanone						CAS #:	108-10-1			
19.690	19.690	(1.107)	43	839850	4.16741	4.167	80.00-	120.00	100.00	
19.718	19.690	(1.109)	58	285261			4.50-	64.50	33.97	
19.718	19.690	(1.109)	85	85869			0.00-	40.30	10.22	

54 Toluene						CAS #:	108-88-3			
19.994	19.994	(1.124)	91	1009829	4.51061	4.511	80.00-	120.00	100.00	
19.994	19.994	(1.124)	92	609153			30.36-	90.36	60.32	

55 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
20.354	20.353	(0.920)	75	283297	5.09635	5.096	80.00-	120.00	100.00	
20.354	20.353	(0.920)	77	89448			1.68-	61.68	31.57	
20.354	20.353	(0.920)	39	214380			44.86-	104.86	75.67	

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
56 1,1,2-Trichloroethane						CAS #:	79-00-5		
20.658	20.658	(0.934)	97	322179	4.57255	4.572	80.00- 120.00	100.00	
20.658	20.658	(0.934)	99	201505			32.66- 92.66	62.54	
20.658	20.658	(0.934)	83	250872			48.43- 108.43	77.87	

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	539965	4.69299	4.693	80.00- 120.00	100.00	
20.796	20.796	(0.940)	129	373380			39.50- 99.50	69.15	
20.796	20.796	(0.940)	131	362879			37.90- 97.90	67.20	

58 2-Hexanone						CAS #:	591-78-6		
20.934	20.934	(0.946)	58	385975	4.18379	4.184	80.00- 120.00	100.00	
20.934	20.934	(0.946)	43	778957			171.64- 231.64	201.82	
20.934	20.934	(0.946)	100	63380			0.00- 46.47	16.42	

59 Dibromochloromethane						CAS #:	124-48-1		
21.238	21.238	(0.960)	129	524190	5.27838	5.278	80.00- 120.00	100.00	
21.238	21.238	(0.960)	208	29319			0.00- 35.53	5.59	

61 1,2-Dibromoethane						CAS #:	106-93-4		
21.459	21.459	(0.970)	107	480433	4.63677	4.637	80.00- 120.00	100.00	
21.459	21.459	(0.970)	109	457439			64.60- 124.60	95.21	

63 Chlorobenzene						CAS #:	108-90-7		
22.151	22.151	(1.001)	112	937451	4.84934	4.849	80.00- 120.00	100.00	
22.151	22.151	(1.001)	114	297772			1.71- 61.71	31.76	
22.151	22.151	(1.001)	77	426134			15.89- 75.89	45.46	

64 Ethyl Benzene						CAS #:	100-41-4		
22.234	22.234	(1.005)	106	503478	4.90431	4.904	80.00- 120.00	100.00	
22.234	22.234	(1.005)	91	1375753			252.96- 312.96	273.25	

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	1252084	9.07728	9.077	80.00- 120.00	100.00	
22.427	22.427	(1.014)	91	2088401			116.47- 176.47	166.79	

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	596591	4.97649	4.976	80.00- 120.00	100.00	
23.063	23.063	(1.042)	91	1043831			145.70- 205.70	174.97	

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	862897	6.59134	6.591	80.00- 120.00	100.00(R)	
23.091	23.091	(1.044)	78	313633			7.36- 67.36	36.35	

68 Bromoform						CAS #:	75-25-2		
23.450	23.450	(1.060)	173	509168	6.03924	6.039	80.00- 120.00	100.00	

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	261849			21.15-	81.15	51.43

70 Cumene						CAS #:	98-82-8		
23.588	23.588	(1.066)	105	1717181	5.98773	5.988	80.00-	120.00	100.00
23.616	23.588	(1.067)	120	543835			2.08-	62.08	31.67

72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.142	24.141	(1.091)	83	589776	4.77412	4.774	80.00-	120.00	100.00
24.142	24.141	(1.091)	85	379086			33.25-	93.25	64.28

73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	1997761	8.74073	8.741	80.00-	120.00	100.00(R)
24.252	24.252	(1.096)	120	582436			0.00-	58.33	29.15

74 4-Ethyltoluene						CAS #:	622-96-8		
24.446	24.446	(1.105)	105	1355427	4.86214	4.862	80.00-	120.00	100.00
24.446	24.446	(1.105)	120	489332			5.83-	65.83	36.10

75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	1271732	5.06260	5.062	80.00-	120.00	100.00
24.556	24.556	(1.110)	120	768824			30.57-	90.57	60.45

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	1245877	5.32437	5.324	80.00-	120.00	100.00
25.192	25.192	(1.139)	120	705916			27.13-	87.13	56.66

81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	995998	4.64603	4.646	80.00-	120.00	100.00
25.773	25.773	(1.165)	148	634857			33.01-	93.01	63.74
25.773	25.773	(1.165)	111	331018			1.87-	61.87	33.23

82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	985001	4.66322	4.663	80.00-	120.00	100.00
25.911	25.911	(1.171)	148	625280			33.01-	93.01	63.48
25.911	25.911	(1.171)	111	324244			0.90-	60.90	32.92

83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	617627	5.04867	5.049	80.00-	120.00	100.00
26.160	26.132	(1.182)	126	164861			0.00-	57.00	26.69

85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	894443	4.74546	4.745	80.00-	120.00	100.00
26.602	26.602	(1.202)	148	569144			33.34-	93.34	63.63
26.602	26.602	(1.202)	111	307113			4.44-	64.44	34.34

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
87	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
29.450	29.450	(1.331)	180	261972	3.90048	3.900	80.00-	120.00	100.00(R)
29.450	29.450	(1.331)	182	249535			64.52-	124.52	95.25

88	Hexachlorobutadiene					CAS #: 87-68-3			
29.644	29.644	(1.340)	225	208891	4.47013	4.470	80.00-	120.00	100.00(R)
29.644	29.644	(1.340)	223	132590			33.01-	93.01	63.47

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i	Calibration Date: 03-MAY-2005
Lab File ID: 7050218.d	Calibration Time: 03:12
Lab Smp Id: LCS	Client Smp ID: LCS
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: WW	
Method File: /chem/msd7.i/7-02maya.b/t141501a.m	
Misc Info: 25mL [5.0ppbv]	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	306259	183755	428763	334364	9.18
46 1,4-Difluorobenze	1365637	819382	1911892	1464322	7.23
62 Chlorobenzene-d5	1256594	753956	1759232	1306392	3.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-02maya
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: LCS	Client Smp ID: LCS
Level: LOW	Operator: WW
Data Type: MS DATA	SampleType: LCS
SpikeList File: m1502.spk	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-02maya.b/t141501a.m	
Misc Info: 25mL [5.0ppbv]	

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
1 Propylene	5.000	3.864	77.28	60-140
2 Dichlorodifluorome	5.000	4.562	91.24	70-130
3 Freon 114	5.000	4.540	90.80	70-130
4 Chloromethane	5.000	4.381	87.62	70-130
5 Vinyl Chloride	5.000	4.375	87.50	70-130
7 1,3-Butadiene	5.000	5.222	104.44	60-140
8 Bromomethane	5.000	3.713	74.26	70-130
9 Chloroethane	5.000	3.600	72.00	70-130
12 Trichlorofluoromet	5.000	4.907	98.14	70-130
14 Ethanol	3.750	4.035	107.60	60-140
17 Freon 113	5.000	4.783	95.65	70-130
16 1,1-Dichloroethene	5.000	4.726	94.52	70-130
18 Acetone	5.000	4.594	91.89	60-140
19 Carbon Disulfide	5.000	5.036	100.71	60-140
20 2-Propanol	3.800	7.524	198.00*	60-140
23 Methylene Chloride	5.000	4.660	93.20	70-130
24 MTBE	5.000	4.881	97.61	60-140
25 trans-1,2-Dichloro	5.000	5.807	116.15	60-140
27 Hexane	5.000	4.864	97.29	60-140
28 1,1-Dichloroethane	5.000	4.536	90.72	70-130
29 Vinyl Acetate	5.000	2.647	52.95*	70-130
31 cis-1,2-Dichloroet	5.000	4.122	82.44	70-130
32 2-Butanone	5.000	4.713	94.26	60-140
33 Tetrahydrofuran	5.000	4.580	91.61	60-140
35 Chloroform	5.000	4.499	89.98	70-130
36 Cyclohexane	5.000	4.898	97.96	60-140
37 1,1,1-Trichloroeth	5.000	4.055	81.10	70-130
39 Carbon Tetrachlori	5.000	4.389	87.78	70-130
42 Benzene	5.000	4.000	80.00	70-130
43 1,2-Dichloroethane	5.000	4.158	83.17	70-130
44 Heptane	5.000	4.966	99.32	60-140
47 Trichloroethene	5.000	4.188	83.76	70-130
48 1,2-Dichloropropan	5.000	4.008	80.16	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
49 1,4-Dioxane	5.000	4.951	99.01	60-140
50 Bromodichlorometha	5.000	4.596	91.92	60-140
51 cis-1,3-Dichloropr	5.000	4.602	92.03	70-130
52 4-Methyl-2-pentano	5.000	4.167	83.35	60-140
54 Toluene	5.000	4.511	90.21	70-130
55 trans-1,3-Dichloro	5.000	5.096	101.93	70-130
56 1,1,2-Trichloroeth	5.000	4.572	91.45	70-130
57 Tetrachloroethene	5.000	4.693	93.86	70-130
58 2-Hexanone	5.000	4.184	83.68	60-140
59 Dibromochlorometha	5.000	5.278	105.57	60-140
61 1,2-Dibromoethane	5.000	4.637	92.74	70-130
63 Chlorobenzene	5.000	4.849	96.99	70-130
64 Ethyl Benzene	5.000	4.904	98.09	70-130
65 m,p-Xylene	10.000	9.077	90.77	70-130
66 o-Xylene	5.000	4.976	99.53	70-130
67 Styrene	5.000	6.591	131.83*	70-130
68 Bromoform	5.000	6.039	120.78	60-140
72 1,1,2,2-Tetrachlor	5.000	4.774	95.48	70-130
74 4-Ethyltoluene	5.000	4.862	97.24	60-140
75 1,3,5-Trimethylben	5.000	5.062	101.25	70-130
78 1,2,4-Trimethylben	5.000	5.324	106.49	70-130
81 1,3-Dichlorobenzen	5.000	4.646	92.92	70-130
82 1,4-Dichlorobenzen	5.000	4.663	93.26	70-130
83 alpha-chlorotoluen	5.000	5.049	100.97	70-130
85 1,2-Dichlorobenzen	5.000	4.745	94.91	70-130
87 1,2,4-Trichloroben	6.900	3.900	56.53*	70-130
88 Hexachlorobutadien	6.750	4.470	66.22*	70-130
70 Cumene	5.000	5.988	119.75	60-140
73 Propylbenzene	5.000	8.741	174.81*	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.394	93.94	70-130
\$ 53 Toluene-d8	10.000	9.877	98.77	70-130
\$ 71 Bromofluorobenzene	10.000	9.986	99.86	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

```
Data file : /chem/msd7.i/7-01maya.b/7050112.d  
Lab Smp Id: Level 1                               Client Smp ID: Level 1  
Inj Date  : 01-MAY-2005 17:00  
Operator   : jeet                                 Inst ID: msd7.i  
Smp Info  : #1282-123 (2ppbv)  
Misc Info : 25ml=0.1ppbv  
Comment   :  
Method    : /chem/msd7.i/7-01maya.b/t14l501a.m  
Meth Date : 02-May-2005 18:43 lsoohoo           Quant Type: ISTD  
Cal Date  : 01-MAY-2005 17:00                   Cal File: 7050112.d  
Als bottle: 1                                     Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP RTE                               Compound Sublist: cal1+t12.sub  
Target Version: 3.50                             Sample Matrix: AIR  
Processing Host: eeyore
```

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
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2	2
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100	100

RT	EXP	RT (REL	RT)	MASS	RESPONSE	AMOUNTS		TARGET	RANGE	RATIO
						CAL-AMT	ON-COL			
==	=====	=====		=====	(PPBV)	(PPBV)		=====		=====
* 34	Bromochloromethane					CAS #:		74-97-5		
16.317	16.317	(1.000)		130	376191	10.0000		70.00-	130.00	100.00
16.317	16.317	(1.000)		128	295537			0.00-	30.00	78.56
16.317	16.317	(1.000)		49	671046			0.00-	30.00	178.38

* 46	1,4-Difluorobenzene					CAS #:		540-36-3		
17.782	17.782	(1.000)		114	1688820	10.0000		70.00-	130.00	100.00
17.782	17.782	(1.000)		88	213679			0.00-	42.60	12.65

* 62	Chlorobenzene-d5					CAS #:		3114-55-4		
22.123	22.123	(1.000)		117	1482605	10.0000		70.00-	130.00	100.00
22.123	22.123	(1.000)		82	653614			0.00-	30.00	44.09

\$ 41	1,2-Dichloroethane-d4					CAS #:		17060-07-0		
17.201	17.201	(1.054)		65	343280	10.0000	8.119	70.00-	130.00	100.00
17.201	17.201	(1.054)		67	192823			0.00-	30.00	56.17

\$ 53	Toluene-d8					CAS #:		2037-26-5		
19.883	19.883	(1.118)		98	1533184	10.0000	9.900	70.00-	130.00	100.00
19.883	19.883	(1.118)		70	130301			0.00-	38.73	8.50

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.883	19.883	(1.118)	100	1050185			38.82-	98.82	68.50

\$ 71 Bromofluorobenzene						CAS #: 460-00-4			
23.948	23.948	(1.082)	174	895808	10.0000	10.977	70.00-	130.00	100.00
23.948	23.948	(1.082)	95	923767			80.03-	140.03	103.12
23.948	23.948	(1.082)	176	869715			67.01-	127.01	97.09

2 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8			
5.948	5.948	(0.365)	85	11931	0.10000	0.1007	70.00-	130.00	100.00
5.948	5.948	(0.365)	87	3203			2.28-	62.28	26.85

3 Freon 114						CAS #: 76-14-2			
7.082	7.054	(0.434)	135	11392	0.10000	0.1144	70.00-	130.00	100.00
7.082	7.054	(0.434)	137	3258			0.00-	30.00	28.60

4 Chloromethane						CAS #: 74-87-3			
7.303	7.303	(0.448)	50	11545	0.10000	0.1028	70.00-	130.00	100.00
7.330	7.303	(0.449)	52	4222			0.00-	30.00	36.57

5 Vinyl Chloride						CAS #: 75-01-4			
8.077	8.077	(0.495)	62	8961	0.10000	0.09985	70.00-	130.00	100.00
8.077	8.077	(0.495)	64	2567			0.00-	58.65	28.65

8 Bromomethane						CAS #: 74-83-9			
9.736	9.736	(0.597)	94	7167	0.10000	0.1336	70.00-	130.00	100.00
9.736	9.736	(0.597)	96	5515			66.06-	126.06	76.95

9 Chloroethane						CAS #: 75-00-3			
10.234	10.206	(0.627)	64	5018	0.10000	0.1176	70.00-	130.00	100.00
10.234	10.206	(0.627)	66	1836			0.00-	30.00	36.60

12 Trichlorofluoromethane/Fr11						CAS #: 75-69-4			
11.063	11.036	(0.678)	101	8925	0.10000	0.09290	70.00-	130.00	100.00
11.063	11.036	(0.678)	103	6959			34.77-	94.77	77.97

17 Freon 113						CAS #: 76-13-1			
12.556	12.556	(0.770)	151	9569	0.10000	0.1414	70.00-	130.00	100.00
12.529	12.556	(0.768)	153	5421			33.33-	93.33	56.66
12.556	12.556	(0.770)	101	10131			0.00-	30.00	105.88

16 1,1-Dichloroethene						CAS #: 75-35-4			
12.529	12.529	(0.768)	98	3565	0.10000	0.09599	70.00-	130.00	100.00
12.529	12.529	(0.768)	61	9182			0.00-	30.00	257.56
12.529	12.529	(0.768)	96	6400			0.00-	30.00	179.53

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
23 Methylene Chloride						CAS #: 75-09-2			
13.718	13.718	(0.841)	84	5712	0.10000	0.1135	70.00- 130.00	100.00	
13.718	13.718	(0.841)	49	11191			186.39- 246.39	195.91	
13.718	13.718	(0.841)	51	4122			0.00- 30.00	72.16	

25 trans-1,2-Dichloroethene						CAS #: 156-60-5			
14.188	14.160	(0.870)	98	3409	0.10000	0.08730	70.00- 130.00	100.00(a)	
14.160	14.160	(0.868)	61	8860			0.00- 30.00	259.90	
14.188	14.160	(0.870)	96	6143			0.00- 30.00	180.19	

28 1,1-Dichloroethane						CAS #: 75-34-3			
14.989	14.990	(0.919)	63	11277	0.10000	0.09160	70.00- 130.00	100.00	
14.989	14.990	(0.919)	65	3167			0.00- 58.46	28.08	

31 cis-1,2-Dichloroethene						CAS #: 156-59-2			
15.929	15.930	(0.976)	98	4407	0.10000	0.1031	70.00- 130.00	100.00	
15.929	15.930	(0.976)	61	9763			196.19- 256.19	221.49	
15.929	15.930	(0.976)	96	7380			124.56- 184.56	167.44	

35 Chloroform						CAS #: 67-66-3			
16.400	16.400	(1.005)	83	9693	0.10000	0.09549	70.00- 130.00	100.00	
16.400	16.400	(1.005)	85	6078			34.70- 94.70	62.71	

37 1,1,1-Trichloroethane						CAS #: 71-55-6			
16.648	16.648	(1.020)	97	9162	0.10000	0.09016	70.00- 130.00	100.00	
16.648	16.648	(1.020)	99	6425			34.32- 94.32	70.12	

39 Carbon Tetrachloride						CAS #: 56-23-5			
16.870	16.870	(1.034)	119	8313	0.10000	0.09374	70.00- 130.00	100.00	
16.870	16.870	(1.034)	117	8290			67.74- 127.74	99.72	

42 Benzene						CAS #: 71-43-2			
17.201	17.201	(0.967)	78	24432	0.10000	0.1189	70.00- 130.00	100.00	
17.201	17.201	(0.967)	77	5536			0.00- 30.00	22.66	

43 1,2-Dichloroethane						CAS #: 107-06-2			
17.312	17.312	(0.974)	62	6853	0.10000	0.09238	70.00- 130.00	100.00	
17.312	17.312	(0.974)	64	2073			0.00- 30.00	30.26	

47 Trichloroethene						CAS #: 79-01-6			
18.141	18.142	(1.020)	130	13253	0.10000	0.1269	70.00- 130.00	100.00	
18.141	18.142	(1.020)	95	9179			0.00- 30.00	69.26	
18.141	18.142	(1.020)	97	5844			0.00- 30.00	44.10	

48 1,2-Dichloropropane						CAS #: 78-87-5			
18.529	18.529	(1.042)	63	8064	0.10000	0.09562	70.00- 130.00	100.00	

AMOUNTS									
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
48 1,2-Dichloropropane (continued)									
18.529	18.529	(1.042)	62	5912			43.80-	103.80	73.32
18.529	18.529	(1.042)	41	5675			34.80-	94.80	70.38

51 cis-1,3-Dichloropropene					CAS #: 10061-01-5				
19.552	19.552	(1.099)	75	8285	0.10000	0.09178	70.00-	130.00	100.00
19.552	19.552	(1.099)	77	2627			1.44-	61.44	31.71
19.524	19.552	(1.098)	39	6283			47.84-	107.84	75.84

54 Toluene					CAS #: 108-88-3				
19.994	19.994	(1.124)	91	27106	0.10000	0.1102	70.00-	130.00	100.00
19.994	19.994	(1.124)	92	15174			29.97-	89.97	55.98

55 trans-1,3-Dichloropropene					CAS #: 10061-02-6				
20.353	20.354	(0.920)	75	5450	0.10000	0.08164	70.00-	130.00	100.00
20.381	20.354	(0.921)	77	2841			1.32-	61.32	52.13
20.353	20.354	(0.920)	39	7423			49.71-	109.71	136.19

56 1,1,2-Trichloroethane					CAS #: 79-00-5				
20.658	20.658	(0.934)	97	7908	0.10000	0.1030	70.00-	130.00	100.00
20.658	20.658	(0.934)	99	4514			32.85-	92.85	57.08
20.630	20.658	(0.932)	83	6103			50.61-	110.61	77.18

57 Tetrachloroethene					CAS #: 127-18-4				
20.796	20.796	(0.940)	166	12404	0.10000	0.1061	70.00-	130.00	100.00
20.796	20.796	(0.940)	129	7871			40.08-	100.08	63.46
20.796	20.796	(0.940)	131	8424			38.82-	98.82	67.91

61 1,2-Dibromoethane					CAS #: 106-93-4				
21.459	21.459	(0.970)	107	10264	0.10000	0.08979	70.00-	130.00	100.00
21.459	21.459	(0.970)	109	10061			64.75-	124.75	98.03

63 Chlorobenzene					CAS #: 108-90-7				
22.151	22.151	(1.001)	112	21203	0.10000	0.1005	70.00-	130.00	100.00
22.151	22.151	(1.001)	114	7297			1.87-	61.87	34.42
22.151	22.151	(1.001)	77	18597			15.98-	75.98	87.71

64 Ethyl Benzene					CAS #: 100-41-4				
22.234	22.234	(1.005)	106	11798	0.10000	0.1053	70.00-	130.00	100.00
22.234	22.234	(1.005)	91	29869			0.00-	30.00	253.16

65 m,p-Xylene					CAS #: 108-38-3				
22.427	22.427	(1.014)	106	25248	0.20000	0.1901	70.00-	130.00	100.00
22.427	22.427	(1.014)	91	43056			0.00-	30.00	170.53

66 o-Xylene					CAS #: 95-47-6				
23.063	23.063	(1.042)	106	12364	0.10000	0.09393	70.00-	130.00	100.00

AMOUNTS										
		CAL-AMT			ON-COL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	
66 o-Xylene (continued)										
23.063	23.063	(1.042)	91	23034			145.55-	205.55	186.29	

67 Styrene						CAS #: 100-42-5				
23.091	23.091	(1.044)	104	12223	0.10000	0.08094	70.00-	130.00	100.00(a)	
23.091	23.091	(1.044)	78	7231			9.06-	69.06	59.16	

72 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5				
24.141	24.141	(1.091)	83	11458	0.10000	0.07669	70.00-	130.00	100.00	
24.141	24.141	(1.091)	85	8009			34.01-	94.01	69.90	

75 1,3,5-Trimethylbenzene						CAS #: 108-67-8				
24.556	24.556	(1.110)	105	27124	0.10000	0.09550	70.00-	130.00	100.00	
24.556	24.556	(1.110)	120	17256			30.24-	90.24	63.62	

78 1,2,4-Trimethylbenzene						CAS #: 95-63-6				
25.192	25.192	(1.139)	105	26390	0.10000	0.09822	70.00-	130.00	100.00	
25.192	25.192	(1.139)	120	14527			27.38-	87.38	55.05	

81 1,3-Dichlorobenzene						CAS #: 541-73-1				
25.773	25.773	(1.165)	146	25175	0.10000	0.1099	70.00-	130.00	100.00	
25.773	25.773	(1.165)	148	15966			0.00-	30.00	63.42	
25.773	25.773	(1.165)	111	8860			0.00-	30.00	35.20	

82 1,4-Dichlorobenzene						CAS #: 106-46-7				
25.911	25.911	(1.171)	146	25689	0.10000	0.1134	70.00-	130.00	100.00	
25.911	25.911	(1.171)	148	15665			0.00-	30.00	60.98	
25.911	25.911	(1.171)	111	8222			0.00-	30.00	32.01	

83 alpha-Chlorotoluene						CAS #: 100-44-7				
26.132	26.132	(1.181)	91	11363	0.10000	0.05004	70.00-	130.00	100.00	
26.160	26.132	(1.182)	126	3641			0.00-	30.00	32.04	

85 1,2-Dichlorobenzene						CAS #: 95-50-1				
26.602	26.602	(1.202)	146	22545	0.10000	0.1097	70.00-	130.00	100.00	
26.602	26.602	(1.202)	148	14987			33.17-	93.17	66.48	
26.602	26.602	(1.202)	111	8414			5.54-	65.54	37.32	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i	Calibration Date: 01-MAY-2005
Lab File ID: 7050112.d	Calibration Time: 17:00
Lab Smp Id: Level 1	Client Smp ID: Level 1
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: jeet	
Method File: /chem/msd7.i/7-01maya.b/t14l501a.m	
Misc Info: 25ml=0.1ppbv	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	376191	225715	526667	376191	0.00
46 1,4-Difluorobenze	1688820	1013292	2364348	1688820	0.00
62 Chlorobenzene-d5	1482605	889563	2075647	1482605	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 01-MAY-2005 17:00

Client ID: Level 1

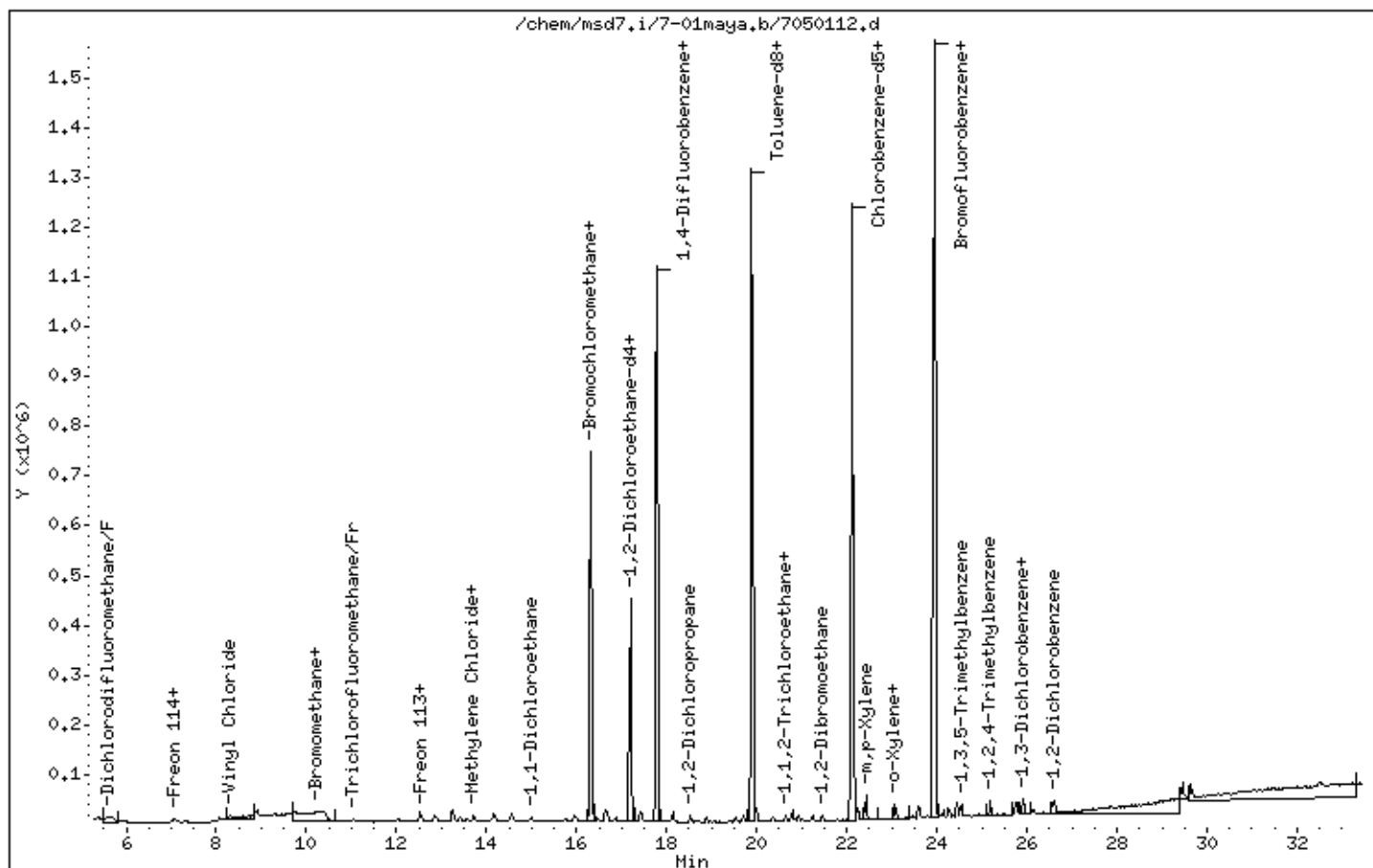
Instrument: msd7.i

Sample Info: #1282-123 (2ppbv)

Operator: jeet

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-01maya.b/7050114.d
Lab Smp Id: Level 2
Inj Date : 01-MAY-2005 18:24
Operator : jeet
Smp Info : #1282-123 (2ppbv)
Misc Info : 125ml=0.5ppbv
Comment :
Method : /chem/msd7.i/7-01maya.b/t14l501a.m
Meth Date : 02-May-2005 18:43 lsoohoo
Cal Date : 21-APR-2005 14:14
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Client Smp ID: Level 2

Inst ID: msd7.i

Quant Type: ISTD
Cal File: 7042103.d
Calibration Sample, Level: 2

Compound Sublist: AT.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

AMOUNTS									
		CAL-AMT		ON-COL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 34 Bromochloromethane						CAS #:	74-97-5		
16.317	16.317	(1.000)	130	336851	10.0000		70.00-	130.00	100.00
16.317	16.317	(1.000)	128	259820			0.00-	30.00	77.13
16.317	16.317	(1.000)	49	610153			0.00-	30.00	181.13

* 46 1,4-Difluorobenzene						CAS #:	540-36-3		
17.782	17.782	(1.000)	114	1502523	10.0000		70.00-	130.00	100.00
17.782	17.782	(1.000)	88	187663			0.00-	42.60	12.49

* 62 Chlorobenzene-d5						CAS #:	3114-55-4		
22.123	22.123	(1.000)	117	1323530	10.0000		70.00-	130.00	100.00
22.123	22.123	(1.000)	82	593588			0.00-	30.00	44.85

\$ 41 1,2-Dichloroethane-d4						CAS #:	17060-07-0		
17.201	17.201	(1.054)	65	315624	10.0000	8.779	70.00-	130.00	100.00
17.201	17.201	(1.054)	67	176970			0.00-	30.00	56.07

\$ 53 Toluene-d8						CAS #:	2037-26-5		
19.883	19.883	(1.118)	98	1370192	10.0000	9.922	70.00-	130.00	100.00
19.883	19.883	(1.118)	70	115826			0.00-	38.73	8.45

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 53 Toluene-d8 (continued)									
19.883	19.883	(1.118)	100	938685			38.82-	98.82	68.51

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	782608	10.0000	10.448	70.00-	130.00	100.00
23.948	23.948	(1.082)	95	822017			80.03-	140.03	105.04
23.948	23.948	(1.082)	176	759155			67.01-	127.01	97.00

1 Propylene						CAS #:	115-07-1		
5.589	5.589	(0.342)	41	44505	0.50000	0.4785	70.00-	130.00	100.00(a)
5.589	5.589	(0.342)	42	31844			0.00-	30.00	71.55
5.589	5.589	(0.342)	39	29908			0.00-	30.00	67.20

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.948	(0.365)	85	45650	0.50000	0.4431	70.00-	130.00	100.00
5.920	5.948	(0.363)	87	15151			2.28-	62.28	33.19

3 Freon 114						CAS #:	76-14-2		
7.082	7.054	(0.434)	135	45495	0.50000	0.5069	70.00-	130.00	100.00
7.082	7.054	(0.434)	137	14523			0.00-	30.00	31.92

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	43387	0.50000	0.4452	70.00-	130.00	100.00
7.303	7.303	(0.448)	52	14667			0.00-	30.00	33.80

5 Vinyl Chloride						CAS #:	75-01-4		
8.077	8.077	(0.495)	62	35043	0.50000	0.4479	70.00-	130.00	100.00
8.077	8.077	(0.495)	64	11335			0.00-	58.65	32.35

7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.298	(0.509)	54	30955	0.50000	0.5112	70.00-	130.00	100.00
8.298	8.298	(0.509)	39	32423			0.00-	30.00	104.74

8 Bromomethane						CAS #:	74-83-9		
9.708	9.736	(0.595)	94	16702	0.50000	0.3657	70.00-	130.00	100.00
9.708	9.736	(0.595)	96	16653			66.06-	126.06	99.70

9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	13743	0.50000	0.3819	70.00-	130.00	100.00
10.206	10.206	(0.626)	66	4260			0.00-	30.00	31.00

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	41153	0.50000	0.4873	70.00-	130.00	100.00
11.063	11.036	(0.678)	103	27099			34.77-	94.77	65.85

14 Ethanol						CAS #:	64-17-5		
12.059	12.031	(0.739)	45	18132	0.50000	0.4514	70.00-	130.00	100.00(a)

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol (continued)									
12.031	12.031	(0.737)	43	3377			0.00-	30.00	18.63
12.031	12.031	(0.737)	46	6202			0.00-	30.00	34.21

17 Freon 113						CAS #:	76-13-1		
12.556	12.556	(0.770)	151	37490	0.50000	0.5903	70.00-	130.00	100.00
12.556	12.556	(0.770)	153	23936			33.33-	93.33	63.85
12.529	12.556	(0.768)	101	38565			0.00-	30.00	102.87

16 1,1-Dichloroethene						CAS #:	75-35-4		
12.529	12.529	(0.768)	98	14980	0.50000	0.4608	70.00-	130.00	100.00
12.529	12.529	(0.768)	61	41040			0.00-	30.00	273.95
12.529	12.529	(0.768)	96	25256			0.00-	30.00	168.59

29 Vinyl Acetate						CAS #:	108-05-4		
15.072	15.045	(0.924)	43	3191	0.50000	0.03001	70.00-	130.00	100.00(a)
15.128	15.045	(0.927)	42	779			0.00-	30.00	24.43
14.575	15.045	(0.893)	86	6966			0.00-	30.00	218.27

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	59386	0.50000	0.4348	70.00-	130.00	100.00(a)
12.833	12.833	(0.786)	58	19168			0.00-	30.00	32.28

20 2-Propanol						CAS #:	67-63-0		
13.220	13.220	(0.810)	45	60749	0.50000	0.4253	70.00-	130.00	100.00(a)
13.220	13.220	(0.810)	43	11914			0.00-	30.00	19.61
13.220	13.220	(0.810)	59	1476			0.00-	30.00	2.43

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	59348	0.50000	0.4470	70.00-	130.00	100.00(a)

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	21559	0.50000	0.4847	70.00-	130.00	100.00
13.718	13.718	(0.841)	49	41748			186.39-	246.39	193.64
13.718	13.718	(0.841)	51	13575			0.00-	30.00	62.97

24 MTBE						CAS #:	1634-04-4		
14.132	14.132	(0.866)	73	51055	0.50000	0.3942	70.00-	130.00	100.00(a)
14.132	14.132	(0.866)	57	19783			0.00-	30.00	38.75
14.132	14.132	(0.866)	41	22739			0.00-	30.00	44.54

25 trans-1,2-Dichloroethene						CAS #:	156-60-5		
14.188	14.160	(0.870)	98	13630	0.50000	0.4078	70.00-	130.00	100.00(a)
14.160	14.160	(0.868)	61	33544			0.00-	30.00	246.11
14.160	14.160	(0.868)	96	23411			0.00-	30.00	171.76

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Hexane						CAS #: 110-54-3			
14.547	14.575	(0.892)	57	52849	0.50000	0.4015	70.00-	130.00	100.00(a)
14.547	14.575	(0.892)	43	41894			0.00-	30.00	79.27
14.575	14.575	(0.893)	86	6966			0.00-	30.00	13.18

28 1,1-Dichloroethane						CAS #: 75-34-3			
14.990	14.990	(0.919)	63	46516	0.50000	0.4337	70.00-	130.00	100.00
14.990	14.990	(0.919)	65	14011			0.00-	58.46	30.12

32 2-Butanone						CAS #: 78-93-3			
15.957	15.957	(0.978)	72	10302	0.50000	0.3864	70.00-	130.00	100.00(a)
15.957	15.957	(0.978)	43	74727			664.77-	724.77	725.34
15.957	15.957	(0.978)	57	4840			0.00-	30.00	46.99

31 cis-1,2-Dichloroethene						CAS #: 156-59-2			
15.930	15.930	(0.976)	98	18690	0.50000	0.4883	70.00-	130.00	100.00
15.930	15.930	(0.976)	61	38631			196.19-	256.19	206.69
15.930	15.930	(0.976)	96	29475			124.56-	184.56	157.70

33 Tetrahydrofuran						CAS #: 109-99-9			
16.317	16.317	(1.000)	42	50533	0.50000	0.4047	70.00-	130.00	100.00(a)
16.317	16.317	(1.000)	71	10929			0.00-	50.54	21.63
16.317	16.317	(1.000)	72	12379			0.00-	30.00	24.50

35 Chloroform						CAS #: 67-66-3			
16.400	16.400	(1.005)	83	38213	0.50000	0.4319	70.00-	130.00	100.00
16.400	16.400	(1.005)	85	26668			34.70-	94.70	69.79

37 1,1,1-Trichloroethane						CAS #: 71-55-6			
16.648	16.648	(1.020)	97	39590	0.50000	0.4436	70.00-	130.00	100.00
16.648	16.648	(1.020)	99	24491			34.32-	94.32	61.86

36 Cyclohexane						CAS #: 110-82-7			
16.648	16.648	(1.020)	84	34470	0.50000	0.4191	70.00-	130.00	100.00(a)
16.648	16.648	(1.020)	56	57675			0.00-	30.00	167.32
16.648	16.648	(1.020)	41	32483			0.00-	30.00	94.23

39 Carbon Tetrachloride						CAS #: 56-23-5			
16.870	16.870	(1.034)	119	35456	0.50000	0.4368	70.00-	130.00	100.00
16.870	16.870	(1.034)	117	34314			67.74-	127.74	96.78

42 Benzene						CAS #: 71-43-2			
17.201	17.201	(0.967)	78	80655	0.50000	0.4494	70.00-	130.00	100.00
17.201	17.201	(0.967)	77	17991			0.00-	30.00	22.31

43 1,2-Dichloroethane						CAS #: 107-06-2			
17.312	17.312	(0.974)	62	26310	0.50000	0.4142	70.00-	130.00	100.00

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
43 1,2-Dichloroethane (continued)									
17.312	17.312	(0.974)	64	8200			0.00-	30.00	31.17

44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	70918	0.50000	0.3881	70.00-	130.00	100.00(a)
17.423	17.423	(0.980)	57	31633			0.00-	30.00	44.61
17.450	17.423	(0.981)	100	8628			0.00-	30.00	12.17

47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	46095	0.50000	0.4884	70.00-	130.00	100.00
18.142	18.142	(1.020)	95	36585			0.00-	30.00	79.37
18.142	18.142	(1.020)	97	24262			0.00-	30.00	52.64

48 1,2-Dichloropropane						CAS #:	78-87-5		
18.529	18.529	(1.042)	63	33204	0.50000	0.4498	70.00-	130.00	100.00
18.529	18.529	(1.042)	62	23970			43.80-	103.80	72.19
18.529	18.529	(1.042)	41	21889			34.80-	94.80	65.92

49 1,4-Dioxane						CAS #:	123-91-1		
18.639	18.639	(1.048)	88	14110	0.50000	0.3666	70.00-	130.00	100.00(a)
18.639	18.639	(1.048)	58	12590			68.05-	128.05	89.23
18.639	18.639	(1.048)	57	4229			0.00-	30.00	29.98

50 Bromodichloromethane						CAS #:	75-27-4		
18.888	18.888	(1.062)	83	37088	0.50000	0.4022	70.00-	130.00	100.00(a)
18.888	18.888	(1.062)	85	22824			33.93-	93.93	61.54

51 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
19.552	19.552	(1.099)	75	31713	0.50000	0.4031	70.00-	130.00	100.00
19.552	19.552	(1.099)	77	10723			1.44-	61.44	33.81
19.524	19.552	(1.098)	39	27992			47.84-	107.84	88.27

52 4-Methyl-2-pentanone						CAS #:	108-10-1		
19.718	19.690	(1.109)	43	75031	0.50000	0.3508	70.00-	130.00	100.00(a)
19.718	19.690	(1.109)	58	26469			0.00-	30.00	35.28
19.718	19.690	(1.109)	85	7533			0.00-	30.00	10.04

54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	96178	0.50000	0.4435	70.00-	130.00	100.00
19.994	19.994	(1.124)	92	58410			29.97-	89.97	60.73

55 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
20.354	20.354	(0.920)	75	22520	0.50000	0.3875	70.00-	130.00	100.00
20.354	20.354	(0.920)	77	7460			1.32-	61.32	33.13
20.354	20.354	(0.920)	39	19675			49.71-	109.71	87.37

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
56 1,1,2-Trichloroethane						CAS #:	79-00-5		
20.658	20.658	(0.934)	97	31147	0.50000	0.4604	70.00- 130.00	100.00	
20.658	20.658	(0.934)	99	20199			32.85- 92.85	64.85	
20.658	20.658	(0.934)	83	24354			50.61- 110.61	78.19	

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	52135	0.50000	0.4939	70.00- 130.00	100.00	
20.796	20.796	(0.940)	129	35062			40.08- 100.08	67.25	
20.796	20.796	(0.940)	131	33785			38.82- 98.82	64.80	

58 2-Hexanone						CAS #:	591-78-6		
20.934	20.934	(0.946)	58	34571	0.50000	0.3683	70.00- 130.00	100.00(a)	
20.934	20.934	(0.946)	43	67916			176.93- 236.93	196.45	
20.934	20.934	(0.946)	100	5350			0.00- 30.00	15.48	

59 Dibromochloromethane						CAS #:	124-48-1		
21.238	21.238	(0.960)	129	37098	0.50000	0.3380	70.00- 130.00	100.00(a)	
21.238	21.238	(0.960)	208	2481			0.00- 30.00	6.69	

61 1,2-Dibromoethane						CAS #:	106-93-4		
21.459	21.459	(0.970)	107	44660	0.50000	0.4430	70.00- 130.00	100.00	
21.459	21.459	(0.970)	109	41239			64.75- 124.75	92.34	

63 Chlorobenzene						CAS #:	108-90-7		
22.151	22.151	(1.001)	112	86986	0.50000	0.4654	70.00- 130.00	100.00	
22.151	22.151	(1.001)	114	26107			1.87- 61.87	30.01	
22.151	22.151	(1.001)	77	47329			15.98- 75.98	54.41	

64 Ethyl Benzene						CAS #:	100-41-4		
22.234	22.234	(1.005)	106	43218	0.50000	0.4375	70.00- 130.00	100.00	
22.234	22.234	(1.005)	91	126744			0.00- 30.00	293.26	

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	105598	1.00000	0.7914	70.00- 130.00	100.00	
22.427	22.427	(1.014)	91	179795			0.00- 30.00	170.26	

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	49091	0.50000	0.4247	70.00- 130.00	100.00	
23.063	23.063	(1.042)	91	92515			145.55- 205.55	188.46	

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	47538	0.50000	0.3669	70.00- 130.00	100.00	
23.091	23.091	(1.044)	78	20437			9.06- 69.06	42.99	

68 Bromoform						CAS #:	75-25-2		
23.450	23.450	(1.060)	173	28035	0.50000	0.3143	70.00- 130.00	100.00(a)	

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	14498			21.20-	81.20	51.71
70 Cumene						CAS #:	98-82-8		
23.588	23.616	(1.066)	105	129322	0.50000	0.3793	70.00-	130.00	100.00(a)
23.616	23.616	(1.067)	120	41232			2.16-	62.16	31.88
72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.141	24.141	(1.091)	83	48507	0.50000	0.3796	70.00-	130.00	100.00
24.141	24.141	(1.091)	85	30678			34.01-	94.01	63.24
73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	105766	0.50000	0.3644	70.00-	130.00	100.00(a)
24.252	24.252	(1.096)	120	31736			0.00-	30.00	30.01
74 4-Ethyltoluene						CAS #:	622-96-8		
24.446	24.446	(1.105)	105	126044	0.50000	0.3644	70.00-	130.00	100.00(a)
24.446	24.446	(1.105)	120	45992			6.11-	66.11	36.49
75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	103440	0.50000	0.4182	70.00-	130.00	100.00
24.556	24.556	(1.110)	120	61066			30.24-	90.24	59.04
78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	96666	0.50000	0.4122	70.00-	130.00	100.00
25.192	25.192	(1.139)	120	54364			27.38-	87.38	56.24
81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	92953	0.50000	0.4518	70.00-	130.00	100.00
25.773	25.773	(1.165)	148	59695			0.00-	30.00	64.22
25.773	25.773	(1.165)	111	31243			0.00-	30.00	33.61
82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	92368	0.50000	0.4531	70.00-	130.00	100.00
25.911	25.911	(1.171)	148	58315			0.00-	30.00	63.13
25.911	25.911	(1.171)	111	31417			0.00-	30.00	34.01
83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	51127	0.50000	0.2676	70.00-	130.00	100.00
26.160	26.132	(1.182)	126	13935			0.00-	30.00	27.26
85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	80653	0.50000	0.4403	70.00-	130.00	100.00
26.602	26.602	(1.202)	148	52192			33.17-	93.17	64.71
26.602	26.602	(1.202)	111	27431			5.54-	65.54	34.01

AMOUNTS									
				CAL -AMT		ON -COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
87 1,2,4-Trichlorobenzene						CAS #:	120-82-1		
29.450	29.450	(1.331)	180	27801	0.50000	0.4216	70.00-	130.00	100.00(a)
29.450	29.450	(1.331)	182	26738			66.46-	126.46	96.17

88 Hexachlorobutadiene						CAS #:	87-68-3		
29.644	29.644	(1.340)	225	18131	0.50000	0.3908	70.00-	130.00	100.00(a)
29.644	29.644	(1.340)	223	11213			0.00-	30.00	61.84

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050114.d
Lab Smp Id: Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: jeet

Calibration Date: 21-APR-2005
Calibration Time: 14:14
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-01maya.b/t14l501a.m
Misc Info: 125ml=0.5ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	336851	202111	471591	336851	0.00
46 1,4-Difluorobenze	1502523	901514	2103532	1502523	0.00
62 Chlorobenzene-d5	1323530	794118	1852942	1323530	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 01-MAY-2005 18:24

Client ID: Level 2

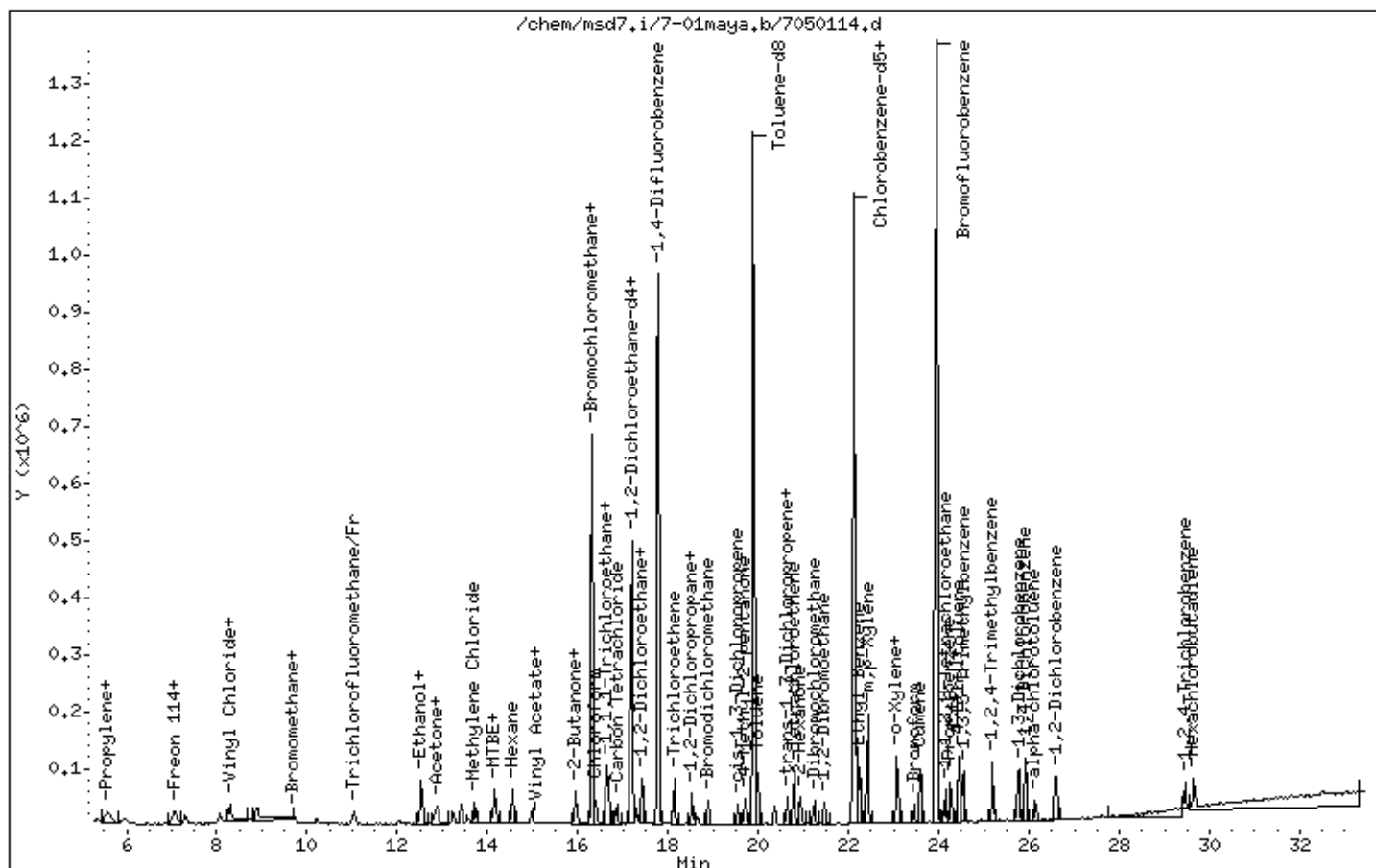
Instrument: msd7.i

Sample Info: #1282-123 (2ppbv)

Operator: jeet

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

```
Data file : /chem/msd7.i/7-01maya.b/7050115.d  
Lab Smp Id: Level 3                               Client Smp ID: Level 3  
Inj Date  : 01-MAY-2005 19:06  
Operator   : jeet                                 Inst ID: msd7.i  
Smp Info   : #1282-123 (2ppbv)  
Misc Info  : 500ml=2.0ppbv  
Comment    :  
Method     : /chem/msd7.i/7-01maya.b/t14l501a.m  
Meth Date  : 02-May-2005 18:43 lsoohoo           Quant Type: ISTD  
Cal Date   : 21-APR-2005 15:17                   Cal File: 7042104.d  
Als bottle: 1                                     Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: HP RTE                                Compound Sublist: AT.sub  
Target Version: 3.50                             Sample Matrix: AIR  
Processing Host: eeyore
```

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
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100	100

RT	EXP	RT (REL	RT)	MASS	RESPONSE	AMOUNTS		TARGET	RANGE	RATIO
						CAL-AMT	ON-COL			
==	=====	=====	=====	=====	=====	(PPBV)	(PPBV)	=====	=====	=====
* 34	Bromochloromethane						CAS #:	74-97-5		
16.317	16.317	(1.000)		130	312036	10.0000		70.00-	130.00	100.00
16.317	16.317	(1.000)		128	235634			0.00-	30.00	75.52
16.317	16.317	(1.000)		49	568793			0.00-	30.00	182.28

* 46	1,4-Difluorobenzene						CAS #:	540-36-3		
17.782	17.782	(1.000)		114	1378210	10.0000		70.00-	130.00	100.00
17.782	17.782	(1.000)		88	173104			0.00-	42.60	12.56

* 62	Chlorobenzene-d5						CAS #:	3114-55-4		
22.123	22.123	(1.000)		117	1214081	10.0000		70.00-	130.00	100.00
22.123	22.123	(1.000)		82	539125			0.00-	30.00	44.41

\$ 41	1,2-Dichloroethane-d4						CAS #:	17060-07-0		
17.201	17.201	(1.054)		65	294047	10.0000	9.042	70.00-	130.00	100.00
17.201	17.201	(1.054)		67	166601			0.00-	30.00	56.66

\$ 53	Toluene-d8						CAS #:	2037-26-5		
19.883	19.883	(1.118)		98	1266687	10.0000	9.998	70.00-	130.00	100.00
19.883	19.883	(1.118)		70	107207			0.00-	38.73	8.46

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.883	19.883	(1.118)	100	853396			38.82-	98.82	67.37
\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	729953	10.00000	10.479	70.00-	130.00	100.00
23.948	23.948	(1.082)	95	777855			80.03-	140.03	106.56
23.948	23.948	(1.082)	176	708761			67.01-	127.01	97.10
1 Propylene						CAS #:	115-07-1		
5.589	5.589	(0.342)	41	152287	2.000000	1.818	70.00-	130.00	100.00
5.589	5.589	(0.342)	42	105907			0.00-	30.00	69.54
5.589	5.589	(0.342)	39	101647			0.00-	30.00	66.75
2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.948	(0.365)	85	172753	2.000000	1.825	70.00-	130.00	100.00
5.948	5.948	(0.365)	87	57159			2.28-	62.28	33.09
3 Freon 114						CAS #:	76-14-2		
7.082	7.054	(0.434)	135	163040	2.000000	1.924	70.00-	130.00	100.00
7.082	7.054	(0.434)	137	53486			0.00-	30.00	32.81
4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	156052	2.000000	1.765	70.00-	130.00	100.00
7.303	7.303	(0.448)	52	50139			0.00-	30.00	32.13
5 Vinyl Chloride						CAS #:	75-01-4		
8.077	8.077	(0.495)	62	130279	2.000000	1.817	70.00-	130.00	100.00
8.077	8.077	(0.495)	64	39071			0.00-	58.65	29.99
7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.298	(0.509)	54	107702	2.000000	1.904	70.00-	130.00	100.00
8.298	8.298	(0.509)	39	112794			0.00-	30.00	104.73
8 Bromomethane						CAS #:	74-83-9		
9.736	9.736	(0.597)	94	83404	2.000000	1.876	70.00-	130.00	100.00
9.736	9.736	(0.597)	96	75323			66.06-	126.06	90.31
9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	46301	2.000000	1.415	70.00-	130.00	100.00
10.206	10.206	(0.626)	66	12940			0.00-	30.00	27.95
12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.063	11.036	(0.678)	101	145316	2.000000	1.870	70.00-	130.00	100.00
11.063	11.036	(0.678)	103	92978			34.77-	94.77	63.98
14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	49123	2.000000	1.552	70.00-	130.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol (continued)									
12.031	12.031	(0.737)	43	10596			0.00-	30.00	21.57
12.031	12.031	(0.737)	46	20447			0.00-	30.00	41.62

17 Freon 113						CAS #:	76-13-1		
12.556	12.556	(0.770)	151	126044	2.000000	2.046	70.00-	130.00	100.00
12.556	12.556	(0.770)	153	81480			33.33-	93.33	64.64
12.529	12.556	(0.768)	101	134450			0.00-	30.00	106.67

16 1,1-Dichloroethene						CAS #:	75-35-4		
12.529	12.529	(0.768)	98	51205	2.000000	1.733	70.00-	130.00	100.00
12.529	12.529	(0.768)	61	141884			0.00-	30.00	277.09
12.529	12.529	(0.768)	96	82846			0.00-	30.00	161.79

29 Vinyl Acetate						CAS #:	108-05-4		
15.045	15.045	(0.922)	43	37138	2.000000	0.4279	70.00-	130.00	100.00
15.045	15.045	(0.922)	42	3115			0.00-	30.00	8.39
15.045	15.045	(0.922)	86	1730			0.00-	30.00	4.66

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	214048	2.000000	1.845	70.00-	130.00	100.00
12.833	12.833	(0.786)	58	63471			0.00-	30.00	29.65

20 2-Propanol						CAS #:	67-63-0		
13.220	13.220	(0.810)	45	198904	2.000000	1.554	70.00-	130.00	100.00
13.220	13.220	(0.810)	43	36604			0.00-	30.00	18.40
13.220	13.220	(0.810)	59	6473			0.00-	30.00	3.25

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	214002	2.000000	1.798	70.00-	130.00	100.00

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	70052	2.000000	1.738	70.00-	130.00	100.00
13.718	13.718	(0.841)	49	148785			186.39-	246.39	212.39
13.718	13.718	(0.841)	51	44829			0.00-	30.00	63.99

24 MTBE						CAS #:	1634-04-4		
14.132	14.132	(0.866)	73	181979	2.000000	1.600	70.00-	130.00	100.00
14.132	14.132	(0.866)	57	67604			0.00-	30.00	37.15
14.132	14.132	(0.866)	41	75497			0.00-	30.00	41.49

25 trans-1,2-Dichloroethene						CAS #:	156-60-5		
14.160	14.160	(0.868)	98	48568	2.000000	1.639	70.00-	130.00	100.00
14.160	14.160	(0.868)	61	122104			0.00-	30.00	251.40
14.160	14.160	(0.868)	96	79409			0.00-	30.00	163.50

AMOUNTS									
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
27 Hexane						CAS #:	110-54-3		
14.547	14.575	(0.892)	57	194914	2.00000	1.683	70.00-	130.00	100.00
14.547	14.575	(0.892)	43	148137			0.00-	30.00	76.00
14.575	14.575	(0.893)	86	22869			0.00-	30.00	11.73
28 1,1-Dichloroethane						CAS #:	75-34-3		
14.989	14.990	(0.919)	63	168781	2.00000	1.749	70.00-	130.00	100.00
14.989	14.990	(0.919)	65	48238			0.00-	58.46	28.58
32 2-Butanone						CAS #:	78-93-3		
15.957	15.957	(0.978)	72	39087	2.00000	1.646	70.00-	130.00	100.00
15.957	15.957	(0.978)	43	277991			664.77-	724.77	711.20
15.957	15.957	(0.978)	57	17256			0.00-	30.00	44.15
31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.930	15.930	(0.976)	98	66428	2.00000	1.870	70.00-	130.00	100.00
15.930	15.930	(0.976)	61	142755			196.19-	256.19	214.90
15.930	15.930	(0.976)	96	100162			124.56-	184.56	150.78
33 Tetrahydrofuran						CAS #:	109-99-9		
16.317	16.317	(1.000)	42	176393	2.00000	1.617	70.00-	130.00	100.00
16.317	16.317	(1.000)	71	37367			0.00-	50.54	21.18
16.317	16.317	(1.000)	72	42100			0.00-	30.00	23.87
35 Chloroform						CAS #:	67-66-3		
16.400	16.400	(1.005)	83	143704	2.00000	1.786	70.00-	130.00	100.00
16.400	16.400	(1.005)	85	89436			34.70-	94.70	62.24
37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.648	(1.020)	97	141643	2.00000	1.741	70.00-	130.00	100.00
16.648	16.648	(1.020)	99	88200			34.32-	94.32	62.27
36 Cyclohexane						CAS #:	110-82-7		
16.648	16.648	(1.020)	84	117848	2.00000	1.615	70.00-	130.00	100.00
16.648	16.648	(1.020)	56	205581			0.00-	30.00	174.45
16.648	16.648	(1.020)	41	117905			0.00-	30.00	100.05
39 Carbon Tetrachloride						CAS #:	56-23-5		
16.870	16.870	(1.034)	119	134103	2.00000	1.764	70.00-	130.00	100.00
16.870	16.870	(1.034)	117	135639			67.74-	127.74	101.15
42 Benzene						CAS #:	71-43-2		
17.201	17.201	(0.967)	78	276978	2.00000	1.706	70.00-	130.00	100.00
17.201	17.201	(0.967)	77	61837			0.00-	30.00	22.33
43 1,2-Dichloroethane						CAS #:	107-06-2		
17.312	17.312	(0.974)	62	99307	2.00000	1.757	70.00-	130.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====		=====
43 1,2-Dichloroethane (continued)									
17.312	17.312	(0.974)	64	29452			0.00-	30.00	29.66
44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	263137	2.000000	1.651	70.00-	130.00	100.00
17.423	17.423	(0.980)	57	114464			0.00-	30.00	43.50
17.450	17.423	(0.981)	100	30953			0.00-	30.00	11.76
47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	160466	2.000000	1.840	70.00-	130.00	100.00
18.142	18.142	(1.020)	95	129284			0.00-	30.00	80.57
18.142	18.142	(1.020)	97	82770			0.00-	30.00	51.58
48 1,2-Dichloropropane						CAS #:	78-87-5		
18.529	18.529	(1.042)	63	119336	2.000000	1.790	70.00-	130.00	100.00
18.529	18.529	(1.042)	62	86360			43.80-	103.80	72.37
18.529	18.529	(1.042)	41	78846			34.80-	94.80	66.07
49 1,4-Dioxane						CAS #:	123-91-1		
18.639	18.639	(1.048)	88	57228	2.000000	1.630	70.00-	130.00	100.00
18.639	18.639	(1.048)	58	55077			68.05-	128.05	96.24
18.639	18.639	(1.048)	57	17568			0.00-	30.00	30.70
50 Bromodichloromethane						CAS #:	75-27-4		
18.888	18.888	(1.062)	83	137132	2.000000	1.668	70.00-	130.00	100.00
18.888	18.888	(1.062)	85	87545			33.93-	93.93	63.84
51 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
19.552	19.552	(1.099)	75	122502	2.000000	1.723	70.00-	130.00	100.00
19.552	19.552	(1.099)	77	38062			1.44-	61.44	31.07
19.524	19.552	(1.098)	39	94506			47.84-	107.84	77.15
52 4-Methyl-2-pentanone						CAS #:	108-10-1		
19.690	19.690	(1.107)	43	318582	2.000000	1.663	70.00-	130.00	100.00
19.718	19.690	(1.109)	58	106761			0.00-	30.00	33.51
19.718	19.690	(1.109)	85	31723			0.00-	30.00	9.96
54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	351352	2.000000	1.771	70.00-	130.00	100.00
19.994	19.994	(1.124)	92	210935			29.97-	89.97	60.04
55 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
20.353	20.354	(0.920)	75	89259	2.000000	1.707	70.00-	130.00	100.00
20.353	20.354	(0.920)	77	29022			1.32-	61.32	32.51
20.353	20.354	(0.920)	39	72681			49.71-	109.71	81.43

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
56 1,1,2-Trichloroethane						CAS #:	79-00-5		
20.658	20.658	(0.934)	97	115230	2.00000	1.854	70.00-	130.00	100.00
20.658	20.658	(0.934)	99	68729			32.85-	92.85	59.64
20.630	20.658	(0.932)	83	88054			50.61-	110.61	76.42

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	182345	2.00000	1.865	70.00-	130.00	100.00
20.796	20.796	(0.940)	129	127013			40.08-	100.08	69.66
20.796	20.796	(0.940)	131	123814			38.82-	98.82	67.90

58 2-Hexanone						CAS #:	591-78-6		
20.934	20.934	(0.946)	58	142509	2.00000	1.645	70.00-	130.00	100.00
20.934	20.934	(0.946)	43	298257			176.93-	236.93	209.29
20.934	20.934	(0.946)	100	22311			0.00-	30.00	15.66

59 Dibromochloromethane						CAS #:	124-48-1		
21.238	21.238	(0.960)	129	151483	2.00000	1.549	70.00-	130.00	100.00
21.238	21.238	(0.960)	208	8630			0.00-	30.00	5.70

61 1,2-Dibromoethane						CAS #:	106-93-4		
21.459	21.459	(0.970)	107	169775	2.00000	1.840	70.00-	130.00	100.00
21.459	21.459	(0.970)	109	158192			64.75-	124.75	93.18

63 Chlorobenzene						CAS #:	108-90-7		
22.151	22.151	(1.001)	112	319294	2.00000	1.863	70.00-	130.00	100.00
22.151	22.151	(1.001)	114	100726			1.87-	61.87	31.55
22.151	22.151	(1.001)	77	149154			15.98-	75.98	46.71

64 Ethyl Benzene						CAS #:	100-41-4		
22.234	22.234	(1.005)	106	165719	2.00000	1.836	70.00-	130.00	100.00
22.234	22.234	(1.005)	91	455441			0.00-	30.00	274.83

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	404577	4.00000	3.306	70.00-	130.00	100.00
22.427	22.427	(1.014)	91	681256			0.00-	30.00	168.39

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	189958	2.00000	1.800	70.00-	130.00	100.00
23.063	23.063	(1.042)	91	344320			145.55-	205.55	181.26

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	200360	2.00000	1.698	70.00-	130.00	100.00
23.091	23.091	(1.044)	78	80690			9.06-	69.06	40.27

68 Bromoform						CAS #:	75-25-2		
23.450	23.450	(1.060)	173	121965	2.00000	1.491	70.00-	130.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	63118			21.20-	81.20	51.75

70 Cumene						CAS #:	98-82-8		
23.588	23.616	(1.066)	105	486423	2.00000	1.594	70.00-	130.00	100.00
23.616	23.616	(1.067)	120	159438			2.16-	62.16	32.78

72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.141	24.141	(1.091)	83	205424	2.00000	1.773	70.00-	130.00	100.00
24.141	24.141	(1.091)	85	129708			34.01-	94.01	63.14

73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	410377	2.00000	1.591	70.00-	130.00	100.00
24.252	24.252	(1.096)	120	115314			0.00-	30.00	28.10

74 4-Ethyltoluene						CAS #:	622-96-8		
24.446	24.446	(1.105)	105	489647	2.00000	1.576	70.00-	130.00	100.00
24.446	24.446	(1.105)	120	175824			6.11-	66.11	35.91

75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	412647	2.00000	1.813	70.00-	130.00	100.00
24.556	24.556	(1.110)	120	251447			30.24-	90.24	60.94

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	375909	2.00000	1.748	70.00-	130.00	100.00
25.192	25.192	(1.139)	120	215917			27.38-	87.38	57.44

81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	361439	2.00000	1.875	70.00-	130.00	100.00
25.773	25.773	(1.165)	148	228285			0.00-	30.00	63.16
25.745	25.773	(1.164)	111	119998			0.00-	30.00	33.20

82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	358050	2.00000	1.875	70.00-	130.00	100.00
25.911	25.911	(1.171)	148	229866			0.00-	30.00	64.20
25.911	25.911	(1.171)	111	116604			0.00-	30.00	32.57

83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	221396	2.00000	1.298	70.00-	130.00	100.00
26.160	26.132	(1.182)	126	59825			0.00-	30.00	27.02

85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	324168	2.00000	1.885	70.00-	130.00	100.00
26.602	26.602	(1.202)	148	202225			33.17-	93.17	62.38
26.602	26.602	(1.202)	111	111995			5.54-	65.54	34.55

RT	EXP	RT (REL	RT)	MASS	RESPONSE	AMOUNTS		TARGET	RANGE	RATIO
						CAL-AMT	ON-COL			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
87	1,2,4-Trichlorobenzene						CAS #:	120-82-1		
29.450	29.450	(1.331)		180	152745	2.00000	2.184	70.00-	130.00	100.00
29.450	29.450	(1.331)		182	145572			66.46-	126.46	95.30

88	Hexachlorobutadiene						CAS #:	87-68-3		
29.644	29.644	(1.340)		225	84721	2.00000	1.829	70.00-	130.00	100.00
29.644	29.644	(1.340)		223	55198			0.00-	30.00	65.15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050115.d
Lab Smp Id: Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: jeet

Calibration Date: 21-APR-2005
Calibration Time: 15:17
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-01maya.b/t141501a.m
Misc Info: 500ml=2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	312036	187222	436850	312036	0.00
46 1,4-Difluorobenze	1378210	826926	1929494	1378210	0.00
62 Chlorobenzene-d5	1214081	728449	1699713	1214081	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 01-MAY-2005 19:06

Client ID: Level 3

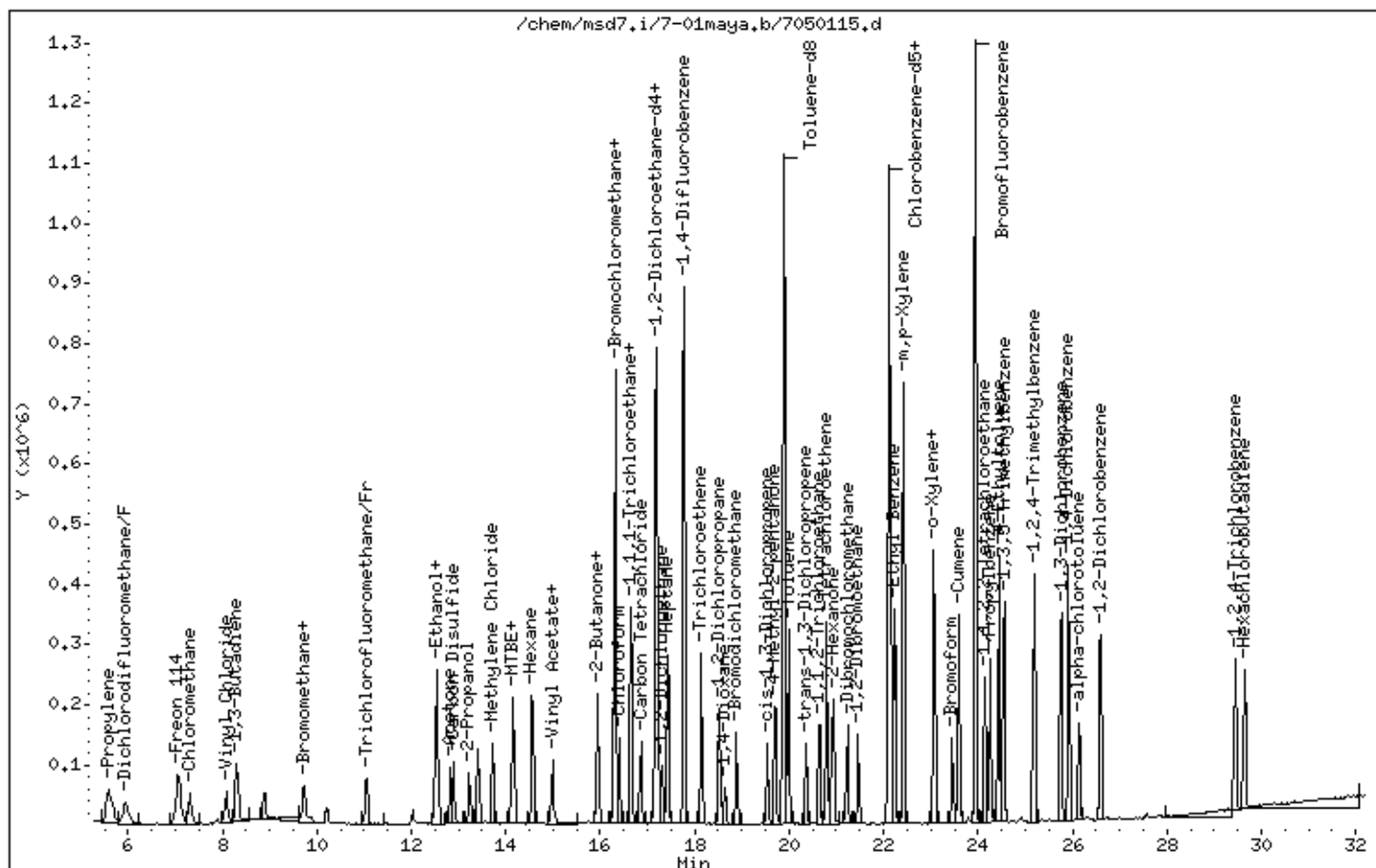
Instrument: msd7.i

Sample Info: #1282-123 (2ppbv)

Operator: jeet

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-01maya.b/7050116.d
Lab Smp Id: Level 4
Inj Date : 01-MAY-2005 19:48
Operator : jeet
Smp Info : #1282-130 (200ppbv)
Misc Info : 25ml=10ppbv
Comment :
Method : /chem/msd7.i/7-01maya.b/t14l501a.m
Meth Date : 02-May-2005 18:43 lsoohoo
Cal Date : 21-APR-2005 16:06
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Client Smp ID: Level 4
Inst ID: msd7.i
Quant Type: ISTD
Cal File: 7042105.d
Calibration Sample, Level: 4
Compound Sublist: AT.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

AMOUNTS									
				CAL - AMT		ON - COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 34 Bromochloromethane						CAS #: 74-97-5			
16.317	16.317	(1.000)	130	296007	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)	128	227795			0.00-	30.00	76.96
16.317	16.317	(1.000)	49	560494			0.00-	30.00	189.35

* 46 1,4-Difluorobenzene						CAS #: 540-36-3			
17.782	17.782	(1.000)	114	1298066	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)	88	162219			0.00-	42.50	12.50

* 62 Chlorobenzene-d5						CAS #: 3114-55-4			
22.123	22.123	(1.000)	117	1186553	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)	82	529257			0.00-	30.00	44.60

\$ 41 1,2-Dichloroethane-d4						CAS #: 17060-07-0			
17.201	17.201	(1.054)	65	290374	10.0000	9.670	80.00-	120.00	100.00
17.201	17.201	(1.054)	67	175188			0.00-	30.00	60.33

\$ 53 Toluene-d8						CAS #: 2037-26-5			
19.883	19.883	(1.118)	98	1205651	10.0000	10.096	80.00-	120.00	100.00
19.883	19.883	(1.118)	70	103778			0.00-	38.61	8.61

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 53 Toluene-d8 (continued)									
19.883	19.883	(1.118)	100	816272			37.70-	97.70	67.70

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	735520	10.0000	10.588	80.00-	120.00	100.00
23.948	23.948	(1.082)	95	769381			74.60-	134.60	104.60
23.948	23.948	(1.082)	176	714332			67.12-	127.12	97.12

1 Propylene						CAS #:	115-07-1		
5.589	5.589	(0.342)	41	868902	10.0000	10.905	80.00-	120.00	100.00
5.589	5.589	(0.342)	42	592023			0.00-	30.00	68.13
5.589	5.589	(0.342)	39	578815			0.00-	30.00	66.61

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.948	(0.365)	85	1021546	10.0000	11.268	80.00-	120.00	100.00
5.948	5.948	(0.365)	87	326763			1.99-	61.99	31.99

3 Freon 114						CAS #:	76-14-2		
7.054	7.054	(0.432)	135	951806	10.0000	11.460	80.00-	120.00	100.00
7.082	7.082	(0.434)	137	305509			0.00-	30.00	32.10

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	904510	10.0000	10.806	80.00-	120.00	100.00
7.303	7.303	(0.448)	52	281077			0.00-	30.00	31.08

5 Vinyl Chloride						CAS #:	75-01-4		
8.077	8.077	(0.495)	62	767035	10.0000	11.195	80.00-	120.00	100.00
8.077	8.077	(0.495)	64	222408			0.00-	59.00	29.00

7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.298	(0.509)	54	619629	10.0000	11.304	80.00-	120.00	100.00
8.298	8.298	(0.509)	39	634960			0.00-	30.00	102.47

8 Bromomethane						CAS #:	74-83-9		
9.736	9.736	(0.597)	94	494788	10.0000	11.388	80.00-	120.00	100.00
9.708	9.708	(0.595)	96	471097			65.21-	125.21	95.21

9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	353947	10.0000	11.311	80.00-	120.00	100.00
10.206	10.206	(0.626)	66	102965			0.00-	30.00	29.09

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	823796	10.0000	11.044	80.00-	120.00	100.00
11.036	11.036	(0.676)	103	531545			34.52-	94.52	64.52

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	273581	10.0000	9.392	80.00-	120.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
14 Ethanol (continued)									
12.031	12.031	(0.737)	43	50555			0.00-	30.00	18.48
12.031	12.031	(0.737)	46	110765			0.00-	30.00	40.49

17 Freon 113						CAS #:	76-13-1		
12.556	12.556	(0.770)	151	727730	10.0000	11.698	80.00-	120.00	100.00
12.556	12.556	(0.770)	153	464453			33.82-	93.82	63.82
12.529	12.529	(0.768)	101	780240			0.00-	30.00	107.22

16 1,1-Dichloroethene						CAS #:	75-35-4		
12.529	12.529	(0.768)	98	313282	10.0000	11.041	80.00-	120.00	100.00
12.529	12.529	(0.768)	61	848649			0.00-	30.00	270.89
12.529	12.529	(0.768)	96	496824			0.00-	30.00	158.59

29 Vinyl Acetate						CAS #:	108-05-4		
15.045	15.045	(0.922)	43	280105	10.0000	4.271	80.00-	120.00	100.00
15.045	15.045	(0.922)	42	21628			0.00-	30.00	7.72
15.045	15.045	(0.922)	86	18804			0.00-	30.00	6.71

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	1076891	10.0000	9.956	80.00-	120.00	100.00
12.833	12.833	(0.786)	58	328721			0.00-	30.00	30.52

20 2-Propanol						CAS #:	67-63-0		
13.220	13.220	(0.810)	45	1150126	10.0000	9.802	80.00-	120.00	100.00
13.220	13.220	(0.810)	43	191828			0.00-	30.00	16.68
13.220	13.220	(0.810)	59	36283			0.00-	30.00	3.15

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	1204173	10.0000	10.606	80.00-	120.00	100.00

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	410725	10.0000	10.578	80.00-	120.00	100.00
13.718	13.718	(0.841)	49	842377			175.09-	235.09	205.09
13.718	13.718	(0.841)	51	252668			0.00-	30.00	61.52

24 MTBE						CAS #:	1634-04-4		
14.132	14.132	(0.866)	73	1081455	10.0000	10.232	80.00-	120.00	100.00
14.132	14.132	(0.866)	57	396371			0.00-	30.00	36.65
14.132	14.132	(0.866)	41	434007			0.00-	30.00	40.13

25 trans-1,2-Dichloroethene						CAS #:	156-60-5		
14.160	14.160	(0.868)	98	280956	10.0000	10.168	80.00-	120.00	100.00
14.160	14.160	(0.868)	61	693750			0.00-	30.00	246.92
14.160	14.160	(0.868)	96	444213			0.00-	30.00	158.11

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Hexane						CAS #:	110-54-3		
14.547	14.547	(0.892)	57	1135877	10.0000	10.490	80.00-	120.00	100.00
14.547	14.547	(0.892)	43	846025			0.00-	30.00	74.48
14.575	14.575	(0.893)	86	135183			0.00-	30.00	11.90

28 1,1-Dichloroethane						CAS #:	75-34-3		
14.989	14.989	(0.919)	63	996232	10.0000	10.891	80.00-	120.00	100.00
14.989	14.989	(0.919)	65	281384			0.00-	58.24	28.24

32 2-Butanone						CAS #:	78-93-3		
15.957	15.957	(0.978)	72	256473	10.0000	11.291	80.00-	120.00	100.00
15.957	15.957	(0.978)	43	1747721			651.44-	711.44	681.44
15.957	15.957	(0.978)	57	108910			0.00-	30.00	42.46

31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.929	15.929	(0.976)	98	385384	10.0000	11.166	80.00-	120.00	100.00
15.929	15.929	(0.976)	61	860013			193.16-	253.16	223.16
15.929	15.929	(0.976)	96	610322			128.37-	188.37	158.37

33 Tetrahydrofuran						CAS #:	109-99-9		
16.317	16.317	(1.000)	42	1042213	10.0000	10.338	80.00-	120.00	100.00
16.317	16.317	(1.000)	71	224748			0.00-	51.56	21.56
16.317	16.317	(1.000)	72	241210			0.00-	30.00	23.14

35 Chloroform						CAS #:	67-66-3		
16.400	16.400	(1.005)	83	849408	10.0000	11.080	80.00-	120.00	100.00
16.400	16.400	(1.005)	85	553392			35.15-	95.15	65.15

37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.648	(1.020)	97	859564	10.0000	11.086	80.00-	120.00	100.00
16.648	16.648	(1.020)	99	554296			34.49-	94.49	64.49

36 Cyclohexane						CAS #:	110-82-7		
16.648	16.648	(1.020)	84	706072	10.0000	10.319	80.00-	120.00	100.00
16.648	16.648	(1.020)	56	1212123			0.00-	30.00	171.67
16.648	16.648	(1.020)	41	701324			0.00-	30.00	99.33

39 Carbon Tetrachloride						CAS #:	56-23-5		
16.870	16.870	(1.034)	119	873131	10.0000	11.846	80.00-	120.00	100.00
16.870	16.870	(1.034)	117	870791			69.73-	129.73	99.73

42 Benzene						CAS #:	71-43-2		
17.201	17.201	(0.967)	78	1651517	10.0000	10.577	80.00-	120.00	100.00
17.201	17.201	(0.967)	77	366609			0.00-	30.00	22.20

43 1,2-Dichloroethane						CAS #:	107-06-2		
17.312	17.312	(0.974)	62	598767	10.0000	11.195	80.00-	120.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
43 1,2-Dichloroethane (continued)									
17.312	17.312	(0.974)	64	176806			0.00-	30.00	29.53
44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	1551276	10.0000	10.502	80.00-	120.00	100.00
17.423	17.423	(0.980)	57	691068			0.00-	30.00	44.55
17.450	17.450	(0.981)	100	187019			0.00-	30.00	12.06
47 Trichloroethene						CAS #:	79-01-6		
18.141	18.141	(1.020)	130	929380	10.0000	10.914	80.00-	120.00	100.00
18.141	18.141	(1.020)	95	747573			0.00-	30.00	80.44
18.141	18.141	(1.020)	97	481642			0.00-	30.00	51.82
48 1,2-Dichloropropane						CAS #:	78-87-5		
18.529	18.529	(1.042)	63	708217	10.0000	11.126	80.00-	120.00	100.00
18.529	18.529	(1.042)	62	525481			44.20-	104.20	74.20
18.529	18.529	(1.042)	41	470844			36.48-	96.48	66.48
49 1,4-Dioxane						CAS #:	123-91-1		
18.639	18.639	(1.048)	88	329298	10.0000	10.223	80.00-	120.00	100.00
18.639	18.639	(1.048)	58	314546			65.52-	125.52	95.52
18.639	18.639	(1.048)	57	96066			0.00-	30.00	29.17
50 Bromodichloromethane						CAS #:	75-27-4		
18.888	18.888	(1.062)	83	853474	10.0000	10.959	80.00-	120.00	100.00
18.888	18.888	(1.062)	85	543478			33.68-	93.68	63.68
51 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
19.552	19.552	(1.099)	75	775481	10.0000	11.427	80.00-	120.00	100.00
19.552	19.552	(1.099)	77	250877			2.35-	62.35	32.35
19.524	19.524	(1.098)	39	604227			47.92-	107.92	77.92
52 4-Methyl-2-pentanone						CAS #:	108-10-1		
19.690	19.690	(1.107)	43	2099648	10.0000	11.565	80.00-	120.00	100.00
19.690	19.690	(1.107)	58	710730			0.00-	30.00	33.85
19.717	19.717	(1.109)	85	203798			0.00-	30.00	9.71
54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	2138051	10.0000	11.152	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	1279938			29.86-	89.86	59.86
55 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
20.353	20.353	(0.920)	75	590915	10.0000	11.532	80.00-	120.00	100.00
20.353	20.353	(0.920)	77	188394			1.88-	61.88	31.88
20.353	20.353	(0.920)	39	472559			49.97-	109.97	79.97

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
56 1,1,2-Trichloroethane						CAS #:	79-00-5		
20.658	20.658	(0.934)	97	703837	10.0000	11.321	80.00-	120.00	100.00
20.658	20.658	(0.934)	99	443732			33.04-	93.04	63.04
20.630	20.630	(0.932)	83	559043			49.43-	109.43	79.43

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	1124291	10.0000	11.352	80.00-	120.00	100.00
20.796	20.796	(0.940)	129	776894			39.10-	99.10	69.10
20.796	20.796	(0.940)	131	763297			37.89-	97.89	67.89

58 2-Hexanone						CAS #:	591-78-6		
20.934	20.934	(0.946)	58	989568	10.0000	11.603	80.00-	120.00	100.00
20.934	20.934	(0.946)	43	2044111			176.57-	236.57	206.57
20.934	20.934	(0.946)	100	152700			0.00-	30.00	15.43

59 Dibromochloromethane						CAS #:	124-48-1		
21.238	21.238	(0.960)	129	1016480	10.0000	10.721	80.00-	120.00	100.00
21.238	21.238	(0.960)	208	54956			0.00-	30.00	5.41

61 1,2-Dibromoethane						CAS #:	106-93-4		
21.459	21.459	(0.970)	107	1065907	10.0000	11.580	80.00-	120.00	100.00
21.459	21.459	(0.970)	109	1008356			64.60-	124.60	94.60

63 Chlorobenzene						CAS #:	108-90-7		
22.151	22.151	(1.001)	112	1909061	10.0000	11.142	80.00-	120.00	100.00
22.151	22.151	(1.001)	114	608957			1.90-	61.90	31.90
22.151	22.151	(1.001)	77	876229			15.90-	75.90	45.90

64 Ethyl Benzene						CAS #:	100-41-4		
22.234	22.234	(1.005)	106	1021159	10.0000	11.297	80.00-	120.00	100.00
22.234	22.234	(1.005)	91	2817993			0.00-	30.00	275.96

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	2613231	20.0000	21.384	80.00-	120.00	100.00
22.427	22.427	(1.014)	91	4383193			0.00-	30.00	167.73

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	1228822	10.0000	11.617	80.00-	120.00	100.00
23.063	23.063	(1.042)	91	2161427			145.89-	205.89	175.89

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	1399972	10.0000	11.962	80.00-	120.00	100.00
23.091	23.091	(1.044)	78	532822			8.06-	68.06	38.06

68 Bromoform						CAS #:	75-25-2		
23.450	23.450	(1.060)	173	881631	10.0000	11.039	80.00-	120.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	451579			21.22-	81.22	51.22

70 Cumene						CAS #:	98-82-8		
23.588	23.588	(1.066)	105	2773776	10.0000	9.564	80.00-	120.00	100.00
23.616	23.616	(1.067)	120	891131			2.13-	62.13	32.13

72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.141	24.141	(1.091)	83	1335665	10.0000	11.698	80.00-	120.00	100.00
24.141	24.141	(1.091)	85	854952			34.01-	94.01	64.01

73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	2212820	10.0000	9.183	80.00-	120.00	100.00
24.252	24.252	(1.096)	120	635723			0.00-	30.00	28.73

74 4-Ethyltoluene						CAS #:	622-96-8		
24.445	24.445	(1.105)	105	2682024	10.0000	9.182	80.00-	120.00	100.00
24.445	24.445	(1.105)	120	960106			5.80-	65.80	35.80

75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	2582210	10.0000	11.363	80.00-	120.00	100.00
24.556	24.556	(1.110)	120	1528880			29.21-	89.21	59.21

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	2379458	10.0000	11.142	80.00-	120.00	100.00
25.192	25.192	(1.139)	120	1349883			26.73-	86.73	56.73

81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	2086308	10.0000	10.836	80.00-	120.00	100.00
25.773	25.773	(1.165)	148	1328550			0.00-	30.00	63.68
25.773	25.773	(1.165)	111	693072			0.00-	30.00	33.22

82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	2018897	10.0000	10.609	80.00-	120.00	100.00
25.911	25.911	(1.171)	148	1270464			0.00-	30.00	62.93
25.911	25.911	(1.171)	111	648807			0.00-	30.00	32.14

83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	1277629	10.0000	8.456	80.00-	120.00	100.00
26.160	26.160	(1.182)	126	339960			0.00-	30.00	26.61

85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	1830261	10.0000	10.706	80.00-	120.00	100.00
26.602	26.602	(1.202)	148	1164767			33.64-	93.64	63.64
26.602	26.602	(1.202)	111	644504			5.21-	65.21	35.21

					AMOUNTS				
					CAL -AMT	ON -COL			
RT	EXP	RT (REL	RT)	MASS	RESPONSE (	PPBV)	(	TARGET	RANGE
==	=====	=====		=====	=====	=====		=====	=====
87	1,2,4-Trichlorobenzene						CAS #:	120-82-1	
29.450	29.450	(1.331)		180	682033	10.0000	10.052	80.00-	120.00
29.450	29.450	(1.331)		182	648217			65.04-	125.04

88	Hexachlorobutadiene						CAS #:	87-68-3	
29.644	29.644	(1.340)		225	522964	10.0000	11.399	80.00-	120.00
29.644	29.644	(1.340)		223	331018			0.00-	30.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050116.d
Lab Smp Id: Level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: jeet

Calibration Date: 01-MAY-2005
Calibration Time: 19:48
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-01maya.b/t14l501a.m
Misc Info: 25ml=10ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	296007	177604	414410	296007	0.00
46 1,4-Difluorobenze	1298066	778840	1817292	1298066	0.00
62 Chlorobenzene-d5	1186553	711932	1661174	1186553	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-01maya.b/7050117.d
Lab Smp Id: Level 5
Inj Date : 01-MAY-2005 20:29
Operator : jeet
Smp Info : #1282-130 (200ppbv)
Misc Info : 50ml=20ppbv
Comment :
Method : /chem/msd7.i/7-01maya.b/t14l501a.m
Meth Date : 02-May-2005 18:43 lsoohoo
Cal Date : 21-APR-2005 16:51
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Client Smp ID: Level 5
Inst ID: msd7.i
Quant Type: ISTD
Cal File: 7042106.d
Calibration Sample, Level: 5
Compound Sublist: AT.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

AMOUNTS									
				CAL -AMT		ON -COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 34 Bromochloromethane						CAS #: 74-97-5			
16.317	16.317	(1.000)	130	304032	10.0000		70.00-	130.00	100.00
16.317	16.317	(1.000)	128	239039			0.00-	30.00	78.62
16.317	16.317	(1.000)	49	606518			0.00-	30.00	199.49

* 46 1,4-Difluorobenzene						CAS #: 540-36-3			
17.782	17.782	(1.000)	114	1337165	10.0000		70.00-	130.00	100.00
17.782	17.782	(1.000)	88	170256			0.00-	42.50	12.73

* 62 Chlorobenzene-d5						CAS #: 3114-55-4			
22.123	22.123	(1.000)	117	1239503	10.0000		70.00-	130.00	100.00
22.123	22.123	(1.000)	82	550600			0.00-	30.00	44.42

\$ 41 1,2-Dichloroethane-d4						CAS #: 17060-07-0			
17.201	17.201	(1.054)	65	312131	10.0000	10.371	70.00-	130.00	100.00
17.201	17.201	(1.054)	67	194941			0.00-	30.00	62.45

\$ 53 Toluene-d8						CAS #: 2037-26-5			
19.883	19.883	(1.118)	98	1235726	10.0000	10.038	70.00-	130.00	100.00
19.883	19.883	(1.118)	70	108165			0.00-	38.61	8.75

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 53 Toluene-d8 (continued)									
19.883	19.883	(1.118)	100	848168			37.70-	97.70	68.64

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	755516	10.0000	10.242	70.00-	130.00	100.00
23.948	23.948	(1.082)	95	799266			74.60-	134.60	105.79
23.948	23.948	(1.082)	176	737085			67.12-	127.12	97.56

1 Propylene						CAS #:	115-07-1		
5.589	5.589	(0.342)	41	1693027	20.0000	20.782	70.00-	130.00	100.00(A)
5.589	5.589	(0.342)	42	1141240			0.00-	30.00	67.41
5.589	5.589	(0.342)	39	1138192			0.00-	30.00	67.23

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.948	(0.365)	85	1999036	20.0000	21.442	70.00-	130.00	100.00
5.948	5.948	(0.365)	87	645034			1.99-	61.99	32.27

3 Freon 114						CAS #:	76-14-2		
7.054	7.054	(0.432)	135	1880499	20.0000	21.552	70.00-	130.00	100.00
7.054	7.082	(0.432)	137	590112			0.00-	30.00	31.38

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	1727347	20.0000	20.312	70.00-	130.00	100.00
7.303	7.303	(0.448)	52	542115			0.00-	30.00	31.38

5 Vinyl Chloride						CAS #:	75-01-4		
8.077	8.077	(0.495)	62	1503514	20.0000	21.420	70.00-	130.00	100.00
8.077	8.077	(0.495)	64	439864			0.00-	59.00	29.26

7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.298	(0.509)	54	1222177	20.0000	21.422	70.00-	130.00	100.00
8.298	8.298	(0.509)	39	1246191			0.00-	30.00	101.96

8 Bromomethane						CAS #:	74-83-9		
9.708	9.736	(0.595)	94	1002883	20.0000	22.041	70.00-	130.00	100.00
9.708	9.708	(0.595)	96	949811			65.21-	125.21	94.71

9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	692126	20.0000	21.613	70.00-	130.00	100.00
10.206	10.206	(0.626)	66	202183			0.00-	30.00	29.21

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	1628275	20.0000	21.215	70.00-	130.00	100.00
11.036	11.036	(0.676)	103	1050067			34.52-	94.52	64.49

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	545879	20.0000	18.942	70.00-	130.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol (continued)									
12.031	12.031	(0.737)	43	99611			0.00-	30.00	18.25
12.031	12.031	(0.737)	46	222626			0.00-	30.00	40.78

17 Freon 113					CAS #:		76-13-1		
12.529	12.556	(0.768)	151	1468477	20.0000	21.788	70.00-	130.00	100.00
12.529	12.556	(0.768)	153	929892			33.82-	93.82	63.32
12.529	12.529	(0.768)	101	1556885			0.00-	30.00	106.02

16 1,1-Dichloroethene					CAS #:		75-35-4		
12.529	12.529	(0.768)	98	651459	20.0000	22.148	70.00-	130.00	100.00
12.529	12.529	(0.768)	61	1718513			0.00-	30.00	263.79
12.529	12.529	(0.768)	96	1019171			0.00-	30.00	156.44

29 Vinyl Acetate					CAS #:		108-05-4		
15.045	15.045	(0.922)	43	569957	20.0000	12.521	70.00-	130.00	100.00
15.045	15.045	(0.922)	42	39230			0.00-	30.00	6.88
15.045	15.045	(0.922)	86	36511			0.00-	30.00	6.41

18 Acetone					CAS #:		67-64-1		
12.805	12.833	(0.785)	43	2139137	20.0000	19.713	70.00-	130.00	100.00
12.805	12.833	(0.785)	58	648308			0.00-	30.00	30.31

20 2-Propanol					CAS #:		67-63-0		
13.220	13.220	(0.810)	45	2313210	20.0000	20.045	70.00-	130.00	100.00
13.220	13.220	(0.810)	43	383187			0.00-	30.00	16.57
13.220	13.220	(0.810)	59	73934			0.00-	30.00	3.20

19 Carbon Disulfide					CAS #:		75-15-0		
12.888	12.888	(0.790)	76	2415794	20.0000	20.840	70.00-	130.00	100.00

23 Methylene Chloride					CAS #:		75-09-2		
13.718	13.718	(0.841)	84	818383	20.0000	20.404	70.00-	130.00	100.00
13.718	13.718	(0.841)	49	1652067			175.09-	235.09	201.87
13.718	13.718	(0.841)	51	492437			0.00-	30.00	60.17

24 MTBE					CAS #:		1634-04-4		
14.132	14.132	(0.866)	73	2168847	20.0000	20.662	70.00-	130.00	100.00
14.132	14.132	(0.866)	57	809664			0.00-	30.00	37.33
14.132	14.132	(0.866)	41	847992			0.00-	30.00	39.10

25 trans-1,2-Dichloroethene					CAS #:		156-60-5		
14.160	14.160	(0.868)	98	572431	20.0000	20.667	70.00-	130.00	100.00
14.160	14.160	(0.868)	61	1398644			0.00-	30.00	244.33
14.160	14.160	(0.868)	96	891430			0.00-	30.00	155.73

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
27 Hexane						CAS #:	110-54-3		
14.547	14.547	(0.892)	57	2264085	20.0000	20.859	70.00- 130.00	100.00	
14.547	14.547	(0.892)	43	1690975			0.00- 30.00	74.69	
14.575	14.575	(0.893)	86	272562			0.00- 30.00	12.04	
28 1,1-Dichloroethane						CAS #:	75-34-3		
14.989	14.989	(0.919)	63	1986504	20.0000	21.311	70.00- 130.00	100.00	
14.989	14.989	(0.919)	65	567188			0.00- 58.24	28.55	
32 2-Butanone						CAS #:	78-93-3		
15.957	15.957	(0.978)	72	522412	20.0000	22.424	70.00- 130.00	100.00	
15.957	15.957	(0.978)	43	3560681			651.44- 711.44	681.58	
15.957	15.957	(0.978)	57	228074			0.00- 30.00	43.66	
31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.930	15.929	(0.976)	98	790943	20.0000	21.927	70.00- 130.00	100.00	
15.930	15.929	(0.976)	61	1729349			193.16- 253.16	218.64	
15.930	15.929	(0.976)	96	1232504			128.37- 188.37	155.83	
33 Tetrahydrofuran						CAS #:	109-99-9		
16.317	16.317	(1.000)	42	2060012	20.0000	20.559	70.00- 130.00	100.00	
16.317	16.317	(1.000)	71	445965			0.00- 51.56	21.65	
16.317	16.317	(1.000)	72	496233			0.00- 30.00	24.09	
35 Chloroform						CAS #:	67-66-3		
16.400	16.400	(1.005)	83	1716421	20.0000	21.759	70.00- 130.00	100.00	
16.400	16.400	(1.005)	85	1108243			35.15- 95.15	64.57	
37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.648	(1.020)	97	1778107	20.0000	22.268	70.00- 130.00	100.00	
16.648	16.648	(1.020)	99	1136476			34.49- 94.49	63.91	
36 Cyclohexane						CAS #:	110-82-7		
16.648	16.648	(1.020)	84	1459297	20.0000	21.094	70.00- 130.00	100.00	
16.648	16.648	(1.020)	56	2469597			0.00- 30.00	169.23	
16.648	16.648	(1.020)	41	1395154			0.00- 30.00	95.60	
39 Carbon Tetrachloride						CAS #:	56-23-5		
16.870	16.870	(1.034)	119	1805302	20.0000	23.486	70.00- 130.00	100.00	
16.870	16.870	(1.034)	117	1766207			69.73- 129.73	97.83	
42 Benzene						CAS #:	71-43-2		
17.201	17.201	(0.967)	78	3423559	20.0000	20.971	70.00- 130.00	100.00	
17.201	17.201	(0.967)	77	763685			0.00- 30.00	22.31	
43 1,2-Dichloroethane						CAS #:	107-06-2		
17.312	17.312	(0.974)	62	1179291	20.0000	21.512	70.00- 130.00	100.00	

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====		=====
43 1,2-Dichloroethane (continued)									
17.312	17.312	(0.974)	64	346062			0.00-	30.00	29.34
44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	3099964	20.0000	20.886	70.00-	130.00	100.00
17.423	17.423	(0.980)	57	1392332			0.00-	30.00	44.91
17.450	17.450	(0.981)	100	373041			0.00-	30.00	12.03
47 Trichloroethene						CAS #:	79-01-6		
18.141	18.141	(1.020)	130	1915980	20.0000	21.233	70.00-	130.00	100.00
18.141	18.141	(1.020)	95	1535049			0.00-	30.00	80.12
18.141	18.141	(1.020)	97	986335			0.00-	30.00	51.48
48 1,2-Dichloropropane						CAS #:	78-87-5		
18.529	18.529	(1.042)	63	1430431	20.0000	21.672	70.00-	130.00	100.00
18.529	18.529	(1.042)	62	1054885			44.20-	104.20	73.75
18.529	18.529	(1.042)	41	929288			36.48-	96.48	64.97
49 1,4-Dioxane						CAS #:	123-91-1		
18.639	18.639	(1.048)	88	734859	20.0000	22.430	70.00-	130.00	100.00
18.639	18.639	(1.048)	58	684063			65.52-	125.52	93.09
18.639	18.639	(1.048)	57	206129			0.00-	30.00	28.05
50 Bromodichloromethane						CAS #:	75-27-4		
18.888	18.888	(1.062)	83	1753783	20.0000	21.920	70.00-	130.00	100.00
18.888	18.888	(1.062)	85	1114900			33.68-	93.68	63.57
51 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
19.552	19.552	(1.099)	75	1600022	20.0000	22.748	70.00-	130.00	100.00
19.552	19.552	(1.099)	77	506411			2.35-	62.35	31.65
19.524	19.524	(1.098)	39	1220055			47.92-	107.92	76.25
52 4-Methyl-2-pentanone						CAS #:	108-10-1		
19.690	19.690	(1.107)	43	4289646	20.0000	22.956	70.00-	130.00	100.00
19.690	19.690	(1.107)	58	1458372			0.00-	30.00	34.00
19.717	19.717	(1.109)	85	425848			0.00-	30.00	9.93
54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	4443945	20.0000	22.059	70.00-	130.00	100.00
19.994	19.994	(1.124)	92	2653018			29.86-	89.86	59.70
55 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
20.353	20.353	(0.920)	75	1229121	20.0000	23.064	70.00-	130.00	100.00
20.353	20.353	(0.920)	77	387761			1.88-	61.88	31.55
20.353	20.353	(0.920)	39	951270			49.97-	109.97	77.39

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
56 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.658	20.658	(0.934)	97	1442850	20.0000	21.858	70.00- 130.00	100.00	
20.658	20.658	(0.934)	99	903411			33.04- 93.04	62.61	
20.630	20.630	(0.932)	83	1139875			49.43- 109.43	79.00	

57 Tetrachloroethene						CAS #: 127-18-4			
20.796	20.796	(0.940)	166	2366802	20.0000	22.240	70.00- 130.00	100.00	
20.796	20.796	(0.940)	129	1636809			39.10- 99.10	69.16	
20.796	20.796	(0.940)	131	1605787			37.89- 97.89	67.85	

58 2-Hexanone						CAS #: 591-78-6			
20.934	20.934	(0.946)	58	2049682	20.0000	22.997	70.00- 130.00	100.00	
20.934	20.934	(0.946)	43	4225549			176.57- 236.57	206.16	
20.934	20.934	(0.946)	100	319073			0.00- 30.00	15.57	

59 Dibromochloromethane						CAS #: 124-48-1			
21.238	21.238	(0.960)	129	2165699	20.0000	22.298	70.00- 130.00	100.00	
21.238	21.238	(0.960)	208	116446			0.00- 30.00	5.38	

61 1,2-Dibromoethane						CAS #: 106-93-4			
21.459	21.459	(0.970)	107	2214001	20.0000	22.726	70.00- 130.00	100.00	
21.459	21.459	(0.970)	109	2106394			64.60- 124.60	95.14	

63 Chlorobenzene						CAS #: 108-90-7			
22.151	22.151	(1.001)	112	3947688	20.0000	21.739	70.00- 130.00	100.00	
22.151	22.151	(1.001)	114	1245316			1.90- 61.90	31.55	
22.151	22.151	(1.001)	77	1790555			15.90- 75.90	45.36	

64 Ethyl Benzene						CAS #: 100-41-4			
22.234	22.234	(1.005)	106	2141004	20.0000	22.240	70.00- 130.00	100.00	
22.234	22.234	(1.005)	91	5905084			0.00- 30.00	275.81	

65 m,p-Xylene						CAS #: 108-38-3			
22.427	22.427	(1.014)	106	5693283	40.0000	43.922	70.00- 130.00	100.00(A)	
22.427	22.427	(1.014)	91	9559078			0.00- 30.00	167.90	

66 o-Xylene						CAS #: 95-47-6			
23.063	23.063	(1.042)	106	2592713	20.0000	23.043	70.00- 130.00	100.00	
23.063	23.063	(1.042)	91	4586625			145.89- 205.89	176.90	

67 Styrene						CAS #: 100-42-5			
23.091	23.091	(1.044)	104	3031385	20.0000	24.503	70.00- 130.00	100.00	
23.091	23.091	(1.044)	78	1143887			8.06- 68.06	37.73	

68 Bromoform						CAS #: 75-25-2			
23.450	23.450	(1.060)	173	1900722	20.0000	23.119	70.00- 130.00	100.00	

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	974587			21.22-	81.22	51.27

70 Cumene						CAS #:	98-82-8		
23.588	23.588	(1.066)	105	5820934	20.0000	20.045	70.00-	130.00	100.00
23.616	23.616	(1.067)	120	1835456			2.13-	62.13	31.53

72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.141	24.141	(1.091)	83	2762759	20.0000	23.238	70.00-	130.00	100.00
24.141	24.141	(1.091)	85	1760344			34.01-	94.01	63.72

73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	4546927	20.0000	19.224	70.00-	130.00	100.00
24.252	24.252	(1.096)	120	1305805			0.00-	30.00	28.72

74 4-Ethyltoluene						CAS #:	622-96-8		
24.446	24.445	(1.105)	105	5644002	20.0000	19.574	70.00-	130.00	100.00
24.446	24.445	(1.105)	120	2003823			5.80-	65.80	35.50

75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	5376357	20.0000	22.423	70.00-	130.00	100.00
24.556	24.556	(1.110)	120	3213194			29.21-	89.21	59.77

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	4996553	20.0000	22.255	70.00-	130.00	100.00
25.192	25.192	(1.139)	120	2811543			26.73-	86.73	56.27

81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	4389120	20.0000	21.518	70.00-	130.00	100.00
25.773	25.773	(1.165)	148	2789649			0.00-	30.00	63.56
25.773	25.773	(1.165)	111	1441921			0.00-	30.00	32.85

82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	4258968	20.0000	21.173	70.00-	130.00	100.00
25.911	25.911	(1.171)	148	2706077			0.00-	30.00	63.54
25.911	25.911	(1.171)	111	1361257			0.00-	30.00	31.96

83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	2717569	20.0000	19.532	70.00-	130.00	100.00
26.132	26.160	(1.181)	126	725411			0.00-	30.00	26.69

85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	3862083	20.0000	21.409	70.00-	130.00	100.00
26.602	26.602	(1.202)	148	2448541			33.64-	93.64	63.40
26.602	26.602	(1.202)	111	1329904			5.21-	65.21	34.43

AMOUNTS									
				CAL -AMT		ON -COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
87 1,2,4-Trichlorobenzene						CAS #:	120-82-1		
29.450	29.450	(1.331)	180	1403107	20.0000	20.248	70.00-	130.00	100.00
29.450	29.450	(1.331)	182	1324893			65.04-	125.04	94.43

88 Hexachlorobutadiene						CAS #:	87-68-3		
29.644	29.644	(1.340)	225	1031038	20.0000	21.750	70.00-	130.00	100.00
29.644	29.644	(1.340)	223	644184			0.00-	30.00	62.48

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050117.d
Lab Smp Id: Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: jeet

Calibration Date: 01-MAY-2005
Calibration Time: 19:48
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-01maya.b/t141501a.m

Misc Info: 50ml=20ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	296007	177604	414410	304032	2.71
46 1,4-Difluorobenze	1298066	778840	1817292	1337165	3.01
62 Chlorobenzene-d5	1186553	711932	1661174	1239503	4.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 01-MAY-2005 20:29

Client ID: Level 5

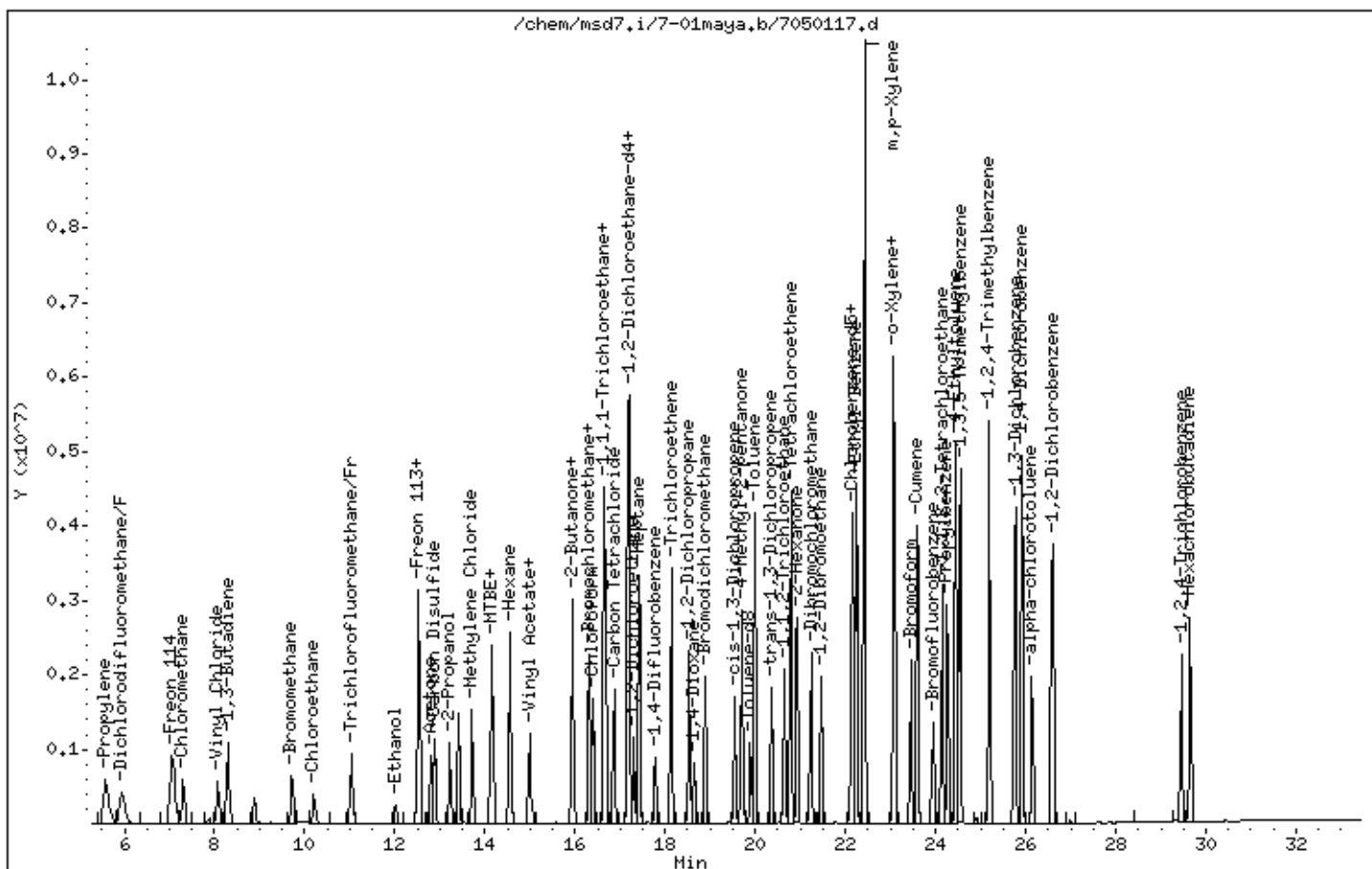
Instrument: msd7.i

Sample Info: #1282-130 (200ppbv)

Operator: jeet

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

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Data file : /chem/msd7.i/7-02maya.b/7050215.d  
Lab Smp Id: Level 6                      Client Smp ID: Level 6  
Inj Date   : 02-MAY-2005 22:03  
Operator    : jc                          Inst ID: msd7.i  
Smp Info    : 100 ml #1282-130  
Misc Info   : 200ppbv -> 40ppbv  
Comment     :  
Method      : /chem/msd7.i/7-02maya.b/t14l501a.m  
Meth Date   : 02-May-2005 23:01 bdunmore Quant Type: ISTD  
Cal Date    : 21-APR-2005 17:36          Cal File: 7042107.d  
Als bottle: 1                            Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: HP RTE                        Compound Sublist: AT.sub  
Target Version: 3.50                     Sample Matrix: AIR  
Processing Host: eeyore
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Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
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2	2
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RT	EXP	RT (REL	RT)	MASS	RESPONSE	AMOUNTS		TARGET	RANGE	RATIO
						CAL-AMT	ON-COL			
==	=====	=====	=====	=====	=====	(PPBV)	(PPBV)	=====	=====	=====
* 34	Bromochloromethane						CAS #:	74-97-5		
16.317	16.317	(1.000)		130	403900	10.0000		70.00-	130.00	100.00
16.317	16.317	(1.000)		128	313715			47.67-	107.67	77.67
16.317	16.317	(1.000)		49	691535			141.21-	201.21	171.21

* 46	1,4-Difluorobenzene						CAS #:	540-36-3		
17.782	17.782	(1.000)		114	1701219	10.0000		70.00-	130.00	100.00
17.782	17.782	(1.000)		88	219074			0.00-	42.88	12.88

* 62	Chlorobenzene-d5						CAS #:	3114-55-4		
22.123	22.123	(1.000)		117	1598013	10.0000		70.00-	130.00	100.00
22.123	22.123	(1.000)		82	701173			13.88-	73.88	43.88

\$ 41	1,2-Dichloroethane-d4						CAS #:	17060-07-0		
17.202	17.202	(1.054)		65	398792	10.0000	9.994	70.00-	130.00	100.00
17.202	17.202	(1.054)		67	278511			39.84-	99.84	69.84

\$ 53	Toluene-d8						CAS #:	2037-26-5		
19.884	19.884	(1.118)		98	1559816	10.0000	10.000	70.00-	130.00	100.00
19.884	19.884	(1.118)		70	133284			0.00-	38.54	8.54

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 53 Toluene-d8 (continued)									
19.884	19.884	(1.118)	100	1081449			39.33-	99.33	69.33

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	945601	10.0000	9.948	70.00-	130.00	100.00
23.948	23.948	(1.082)	95	994283			75.15-	135.15	105.15
23.948	23.948	(1.082)	176	922730			67.58-	127.58	97.58

1 Propylene						CAS #:	115-07-1		
5.589	5.561	(0.343)	41	3802489	40.0000	35.780	70.00-	130.00	100.00(A)
5.589	5.561	(0.343)	42	2557247			37.25-	97.25	67.25
5.589	5.561	(0.343)	39	2502047			35.80-	95.80	65.80

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.948	5.921	(0.365)	85	4430315	40.0000	36.299	70.00-	130.00	100.00
5.948	5.921	(0.365)	87	1425750			2.18-	62.18	32.18

3 Freon 114						CAS #:	76-14-2		
7.054	7.054	(0.432)	135	4346546	40.0000	37.236	70.00-	130.00	100.00
7.054	7.054	(0.432)	137	1371881			1.56-	61.56	31.56

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	3865792	40.0000	34.942	70.00-	130.00	100.00
7.303	7.303	(0.448)	52	1212848			1.37-	61.37	31.37

5 Vinyl Chloride						CAS #:	75-01-4		
8.050	8.077	(0.493)	62	3259779	40.0000	35.523	70.00-	130.00	100.00
8.050	8.077	(0.493)	64	956275			0.00-	59.34	29.34

7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.299	(0.509)	54	2668572	40.0000	35.450	70.00-	130.00	100.00
8.298	8.299	(0.509)	39	2647906			69.23-	129.23	99.23

8 Bromomethane						CAS #:	74-83-9		
9.709	9.709	(0.595)	94	1823008	40.0000	31.190	70.00-	130.00	100.00
9.709	9.709	(0.595)	96	1728434			64.81-	124.81	94.81

9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	1322819	40.0000	32.510	70.00-	130.00	100.00
10.206	10.206	(0.626)	66	381727			0.00-	58.86	28.86

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	4144168	40.0000	40.581	70.00-	130.00	100.00(A)
11.036	11.036	(0.676)	103	2676604			34.59-	94.59	64.59

14 Ethanol						CAS #:	64-17-5		
12.003	12.031	(0.736)	45	1296374	40.0000	35.757	70.00-	130.00	100.00(A)

				AMOUNTS					
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol (continued)									
12.003	12.031	(0.736)	43	230352			0.00-	47.77	17.77
12.003	12.031	(0.736)	46	528685			10.78-	70.78	40.78

17 Freon 113						CAS #:	76-13-1		
12.529	12.529	(0.768)	151	3836105	40.0000	40.596	70.00-	130.00	100.00(A)
12.529	12.529	(0.768)	153	2427155			33.27-	93.27	63.27
12.529	12.529	(0.768)	101	4007264			74.46-	134.46	104.46

16 1,1-Dichloroethene						CAS #:	75-35-4		
12.501	12.529	(0.766)	98	1765836	40.0000	44.610	70.00-	130.00	100.00(A)
12.501	12.529	(0.766)	61	4392743			218.76-	278.76	248.76
12.501	12.529	(0.766)	96	2776066			127.21-	187.21	157.21

29 Vinyl Acetate						CAS #:	108-05-4		
15.045	15.045	(0.922)	43	1460976	40.0000	50.626	70.00-	130.00	100.00(A)
15.045	15.045	(0.922)	42	96540			0.00-	36.61	6.61
15.045	15.045	(0.922)	86	99554			0.00-	36.81	6.81

18 Acetone						CAS #:	67-64-1		
12.805	12.805	(0.785)	43	5134274	40.0000	36.761	70.00-	130.00	100.00
12.805	12.805	(0.785)	58	1622380			1.60-	61.60	31.60

20 2-Propanol						CAS #:	67-63-0		
13.192	13.220	(0.809)	45	5304800	40.0000	36.964	70.00-	130.00	100.00
13.192	13.220	(0.809)	43	812498			0.00-	45.32	15.32
13.192	13.220	(0.809)	59	173901			0.00-	33.28	3.28

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	6375186	40.0000	41.669	70.00-	130.00	100.00(A)

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	2089966	40.0000	39.062	70.00-	130.00	100.00
13.718	13.718	(0.841)	49	3975312			160.21-	220.21	190.21
13.718	13.718	(0.841)	51	1187469			26.82-	86.82	56.82

24 MTBE						CAS #:	1634-04-4		
14.132	14.133	(0.866)	73	5518927	40.0000	41.198	70.00-	130.00	100.00(A)
14.132	14.133	(0.866)	57	1986624			6.00-	66.00	36.00
14.132	14.133	(0.866)	41	1974822			5.78-	65.78	35.78

25 trans-1,2-Dichloroethene						CAS #:	156-60-5		
14.160	14.160	(0.868)	98	1486258	40.0000	41.625	70.00-	130.00	100.00(A)
14.160	14.160	(0.868)	61	3518490			206.73-	266.73	236.73
14.160	14.160	(0.868)	96	2351445			128.21-	188.21	158.21

AMOUNTS									
				CAL -AMT		ON -COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
27 Hexane						CAS #: 110-54-3			
14.547	14.547	(0.892)	57	5721068	40.0000	40.790	70.00- 130.00	100.00(A)	
14.547	14.547	(0.892)	43	4118673			41.99- 101.99	71.99	
14.547	14.547	(0.892)	86	724908			0.00- 42.67	12.67	
28 1,1-Dichloroethane						CAS #: 75-34-3			
14.990	14.990	(0.919)	63	4974868	40.0000	40.660	70.00- 130.00	100.00(A)	
14.990	14.990	(0.919)	65	1410954			0.00- 58.36	28.36	
32 2-Butanone						CAS #: 78-93-3			
15.930	15.957	(0.976)	72	1367489	40.0000	44.432	70.00- 130.00	100.00(A)	
15.930	15.957	(0.976)	43	8816956			614.75- 674.75	644.75	
15.930	15.957	(0.976)	57	568051			11.54- 71.54	41.54	
31 cis-1,2-Dichloroethene						CAS #: 156-59-2			
15.930	15.930	(0.976)	98	2094550	40.0000	42.948	70.00- 130.00	100.00(A)	
15.930	15.930	(0.976)	61	4363529			178.33- 238.33	208.33	
15.930	15.930	(0.976)	96	3275121			126.36- 186.36	156.36	
33 Tetrahydrofuran						CAS #: 109-99-9			
16.317	16.317	(1.000)	42	4963303	40.0000	38.869	70.00- 130.00	100.00	
16.317	16.317	(1.000)	71	1116364			0.00- 52.49	22.49	
16.317	16.317	(1.000)	72	1233206			0.00- 54.85	24.85	
35 Chloroform						CAS #: 67-66-3			
16.400	16.400	(1.005)	83	4262822	40.0000	40.910	70.00- 130.00	100.00(A)	
16.400	16.400	(1.005)	85	2749016			34.49- 94.49	64.49	
37 1,1,1-Trichloroethane						CAS #: 71-55-6			
16.649	16.649	(1.020)	97	4526632	40.0000	42.870	70.00- 130.00	100.00(A)	
16.649	16.649	(1.020)	99	2894940			33.95- 93.95	63.95	
36 Cyclohexane						CAS #: 110-82-7			
16.649	16.649	(1.020)	84	3909760	40.0000	43.446	70.00- 130.00	100.00(A)	
16.649	16.649	(1.020)	56	6238520			129.56- 189.56	159.56	
16.649	16.649	(1.020)	41	3389998			56.71- 116.71	86.71	
39 Carbon Tetrachloride						CAS #: 56-23-5			
16.870	16.870	(1.034)	119	4630033	40.0000	45.107	70.00- 130.00	100.00(A)	
16.870	16.870	(1.034)	117	4546308			68.19- 128.19	98.19	
42 Benzene						CAS #: 71-43-2			
17.202	17.202	(0.967)	78	9114117	40.0000	43.339	70.00- 130.00	100.00(A)	
17.202	17.202	(0.967)	77	1968577			0.00- 51.60	21.60	
43 1,2-Dichloroethane						CAS #: 107-06-2			
17.312	17.312	(0.974)	62	2807514	40.0000	40.730	70.00- 130.00	100.00(A)	

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
43 1,2-Dichloroethane (continued)									
17.312	17.312	(0.974)	64	841453			0.00-	59.97	29.97

44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	7609856	40.0000	41.641	70.00-	130.00	100.00(A)
17.423	17.423	(0.980)	57	3464353			15.52-	75.52	45.52
17.423	17.423	(0.980)	100	969733			0.00-	42.74	12.74

47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	5032934	40.0000	42.747	70.00-	130.00	100.00(A)
18.142	18.142	(1.020)	95	3923359			47.95-	107.95	77.95
18.142	18.142	(1.020)	97	2529880			20.27-	80.27	50.27

48 1,2-Dichloropropane						CAS #:	78-87-5		
18.529	18.529	(1.042)	63	3583338	40.0000	42.704	70.00-	130.00	100.00(A)
18.529	18.529	(1.042)	62	2636982			43.59-	103.59	73.59
18.529	18.529	(1.042)	41	2154950			30.14-	90.14	60.14

49 1,4-Dioxane						CAS #:	123-91-1		
18.639	18.639	(1.048)	88	1766183	40.0000	43.863	70.00-	130.00	100.00(A)
18.639	18.639	(1.048)	58	1608570			61.08-	121.08	91.08
18.639	18.639	(1.048)	57	468297			0.00-	56.51	26.51

50 Bromodichloromethane						CAS #:	75-27-4		
18.888	18.888	(1.062)	83	4456891	40.0000	44.262	70.00-	130.00	100.00(A)
18.888	18.888	(1.062)	85	2847595			33.89-	93.89	63.89

51 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
19.552	19.552	(1.099)	75	4127577	40.0000	46.077	70.00-	130.00	100.00(A)
19.552	19.552	(1.099)	77	1307663			1.68-	61.68	31.68
19.524	19.552	(1.098)	39	2855416			39.18-	99.18	69.18

52 4-Methyl-2-pentanone						CAS #:	108-10-1		
19.690	19.690	(1.107)	43	10242948	40.0000	43.749	70.00-	130.00	100.00(A)
19.690	19.690	(1.107)	58	3533689			4.50-	64.50	34.50
19.690	19.690	(1.107)	85	1054836			0.00-	40.30	10.30

54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	11599684	40.0000	44.597	70.00-	130.00	100.00(A)
19.994	19.994	(1.124)	92	6910056			29.57-	89.57	59.57

55 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
20.354	20.354	(0.920)	75	3092074	40.0000	45.474	70.00-	130.00	100.00(A)
20.354	20.354	(0.920)	77	976525			1.58-	61.58	31.58
20.354	20.354	(0.920)	39	2244114			42.58-	102.58	72.58

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
56 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.658	20.658	(0.934)	97	3721729	40.0000	43.182	70.00- 130.00	100.00(A)	
20.658	20.658	(0.934)	99	2319865			32.33- 92.33	62.33	
20.630	20.658	(0.932)	83	2897378			47.85- 107.85	77.85	
57 Tetrachloroethene						CAS #: 127-18-4			
20.796	20.796	(0.940)	166	6434845	40.0000	45.721	70.00- 130.00	100.00(A)	
20.796	20.796	(0.940)	129	4305438			36.91- 96.91	66.91	
20.796	20.796	(0.940)	131	4209226			35.41- 95.41	65.41	
58 2-Hexanone						CAS #: 591-78-6			
20.934	20.934	(0.946)	58	4863021	40.0000	43.093	70.00- 130.00	100.00(A)	
20.934	20.934	(0.946)	43	9824067			172.02- 232.02	202.02	
20.934	20.934	(0.946)	100	801107			0.00- 46.47	16.47	
59 Dibromochloromethane						CAS #: 124-48-1			
21.238	21.238	(0.960)	129	5664307	40.0000	46.628	70.00- 130.00	100.00(A)	
21.238	21.238	(0.960)	208	313079			0.00- 35.53	5.53	
61 1,2-Dibromoethane						CAS #: 106-93-4			
21.460	21.460	(0.970)	107	5759278	40.0000	45.440	70.00- 130.00	100.00(A)	
21.460	21.460	(0.970)	109	5484116			65.22- 125.22	95.22	
63 Chlorobenzene						CAS #: 108-90-7			
22.151	22.151	(1.001)	112	10340323	40.0000	43.728	70.00- 130.00	100.00(A)	
22.151	22.151	(1.001)	114	3214732			1.09- 61.09	31.09	
22.151	22.151	(1.001)	77	4476282			13.29- 73.29	43.29	
64 Ethyl Benzene						CAS #: 100-41-4			
22.234	22.234	(1.005)	106	5493330	40.0000	43.745	70.00- 130.00	100.00(A)	
22.234	22.234	(1.005)	91	15543964			252.96- 312.96	282.96	
65 m,p-Xylene						CAS #: 108-38-3			
22.427	22.427	(1.014)	106	15446253	80.0000	103.25	70.00- 130.00	100.00(A)	
22.427	22.427	(1.014)	91	22623796			116.47- 176.47	146.47	
66 o-Xylene						CAS #: 95-47-6			
23.063	23.063	(1.042)	106	6816311	40.0000	46.482	70.00- 130.00	100.00(A)	
23.063	23.063	(1.042)	91	11874690			144.21- 204.21	174.21	
67 Styrene						CAS #: 100-42-5			
23.091	23.091	(1.044)	104	7938874	40.0000	49.575	70.00- 130.00	100.00(A)	
23.091	23.091	(1.044)	78	2799156			5.26- 65.26	35.26	
68 Bromoform						CAS #: 75-25-2			
23.450	23.450	(1.060)	173	5057033	40.0000	49.035	70.00- 130.00	100.00(A)	

AMOUNTS									
				CAL-AMT	ON-COL				
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	2549947			20.42-	80.42	50.42

70 Cumene						CAS #:	98-82-8		
23.589	23.589	(1.066)	105	14912196	40.0000	42.509	70.00-	130.00	100.00(A)
23.616	23.589	(1.067)	120	4623095			1.00-	61.00	31.00

72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.142	24.142	(1.091)	83	6914941	40.0000	45.760	70.00-	130.00	100.00(A)
24.142	24.142	(1.091)	85	4402430			33.67-	93.67	63.67

73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	11251736	40.0000	40.245	70.00-	130.00	100.00(A)
24.252	24.252	(1.096)	120	3187678			0.00-	58.33	28.33

74 4-Ethyltoluene						CAS #:	622-96-8		
24.446	24.446	(1.105)	105	14134550	40.0000	41.450	70.00-	130.00	100.00(A)
24.446	24.446	(1.105)	120	4948286			5.01-	65.01	35.01

75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	13424664	40.0000	43.689	70.00-	130.00	100.00(A)
24.556	24.556	(1.110)	120	8147458			30.69-	90.69	60.69

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	12382775	40.0000	43.262	70.00-	130.00	100.00(A)
25.192	25.192	(1.139)	120	7024783			26.73-	86.73	56.73

81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	11031958	40.0000	42.070	70.00-	130.00	100.00(A)
25.773	25.773	(1.165)	148	6950755			33.01-	93.01	63.01
25.773	25.773	(1.165)	111	3516302			1.87-	61.87	31.87

82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	10730513	40.0000	41.530	70.00-	130.00	100.00(A)
25.911	25.911	(1.171)	148	6761105			33.01-	93.01	63.01
25.911	25.911	(1.171)	111	3315261			0.90-	60.90	30.90

83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	6358820	40.0000	42.493	70.00-	130.00	100.00(A)
26.160	26.132	(1.182)	126	1716927			0.00-	57.00	27.00

85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	9472098	40.0000	41.083	70.00-	130.00	100.00(A)
26.602	26.602	(1.202)	148	5971639			33.04-	93.04	63.04
26.602	26.602	(1.202)	111	3149316			3.25-	63.25	33.25

AMOUNTS									
		CAL -AMT		ON -COL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
87 1,2,4-Trichlorobenzene						CAS #:	120-82-1		
29.450	29.450	(1.331)	180	2433046	40.0000	29.615	70.00-	130.00	100.00
29.450	29.450	(1.331)	182	2303523			64.68-	124.68	94.68

88 Hexachlorobutadiene						CAS #:	87-68-3		
29.644	29.644	(1.340)	225	1975074	40.0000	34.552	70.00-	130.00	100.00
29.644	29.644	(1.340)	223	1244541			33.01-	93.01	63.01

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i	Calibration Date: 21-APR-2005
Lab File ID: 7050215.d	Calibration Time: 17:36
Lab Smp Id: Level 6	Client Smp ID: Level 6
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: jc	
Method File: /chem/msd7.i/7-02maya.b/t141501a.m	
Misc Info: 200ppbv -> 40ppbv	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	403900	242340	565460	403900	0.00
46 1,4-Difluorobenze	1701219	1020731	2381707	1701219	0.00
62 Chlorobenzene-d5	1598013	958808	2237218	1598013	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 02-MAY-2005 22:03

Client ID: Level 6

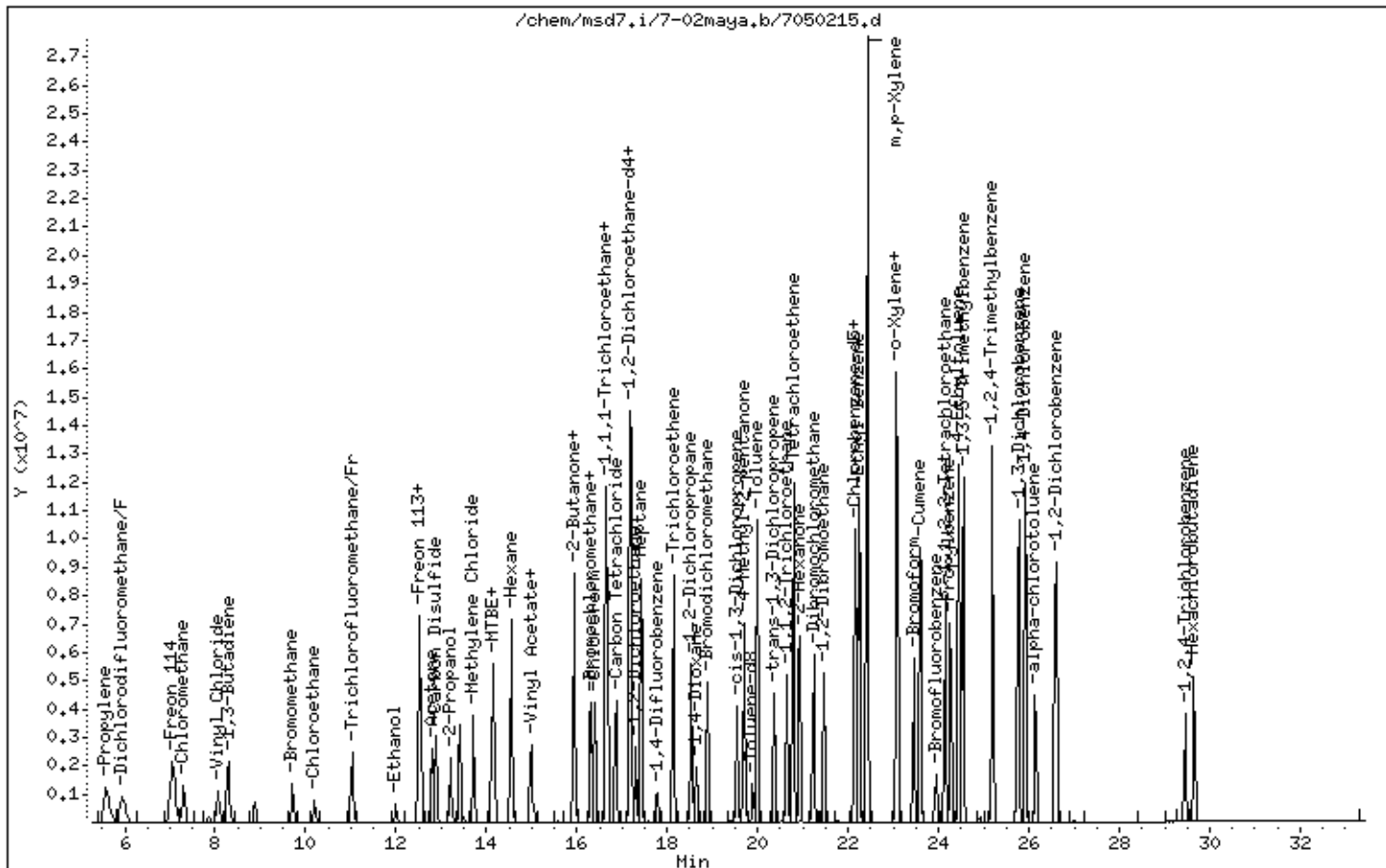
Instrument: msd7.i

Sample Info: 100 ml #1282-130

Operator: jc

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

[illegible]

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
1	1
2	2
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100	100

					AMOUNTS				
RT	EXP RT	RT (REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 34 Bromochloromethane						CAS #:	74-97-5		
16.317	16.317	(1.000)	130	354050	10.0000		70.00-	130.00	100.00
16.317	16.317	(1.000)	128	278169			47.67-	107.67	78.57
16.289	16.317	(1.000)	49	637686			141.21-	201.21	180.11

\$ 41 1,2-Dichloroethane-d4						CAS #:	17060-07-0		
17.201	17.202	(1.054)	65	327596	10.0000	9.650	70.00-	130.00	100.00
17.201	17.202	(1.054)	67	184228			39.84-	99.84	56.24

* 46 1,4-Difluorobenzene						CAS #:	540-36-3		
17.782	17.782	(1.000)	114	1617125	10.0000		70.00-	130.00	100.00
17.754	17.782	(1.000)	88	206021			0.00-	42.88	12.74

\$ 53 Toluene-d8						CAS #:	2037-26-5		
19.883	19.884	(1.118)	98	1486299	10.0000	10.009	70.00-	130.00	100.00
19.883	19.884	(1.118)	70	125946			0.00-	38.54	8.47
19.883	19.884	(1.118)	100	1015924			39.33-	99.33	68.35

* 62 Chlorobenzene-d5						CAS #:	3114-55-4		
22.123	22.123	(1.000)	117	1410836	10.0000		70.00-	130.00	100.00

CAL-AMT ON-COL

[illegible]

* 62 Chlorobenzene-d5 (continued)

22.095	22.123	(1.000)	82	633859	13.88-	73.88	44.93
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\$ 71 Bromofluorobenzene

CAS #: 460-00-4

23.948	23.948	(1.082)	174	839845	10.0000	9.890	70.00-	130.00	100.00
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23.948	23.948	(1.082)	95	883772	75.15-	135.15	105.23
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23.948	23.948	(1.082)	176	818704	67.58-	127.58	97.48
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65 m, p-Xylene

CAS #: 108-38-3

22.427	22.427	(1.014)	106	20468	0.10000	0.1374	70.00-	130.00	100.00
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22.427	22.427	(1.014)	91	34835	116.47-	176.47	170.19
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Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i

Lab File ID: 7050113.d

Lab Smp Id: Level 7

Analysis Type: VOA

Quant Type: ISTD

Operator: jeet

Method File: /chem/msd7.i/7-02maya.b/t141501a.m

Misc Info: 12.5ml=0.1ppbv mp-Xylene

Calibration Date: 01-MAY-2005

Calibration Time: 17:45

Client Smp ID: Level 7

Level: LOW

Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	354050	212430	495670	354050	0.00
46 1,4-Difluorobenze	1617125	970275	2263975	1617125	0.00
62 Chlorobenzene-d5	1410836	846502	1975170	1410836	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 01-MAY-2005 17:45

Client ID: Level 7

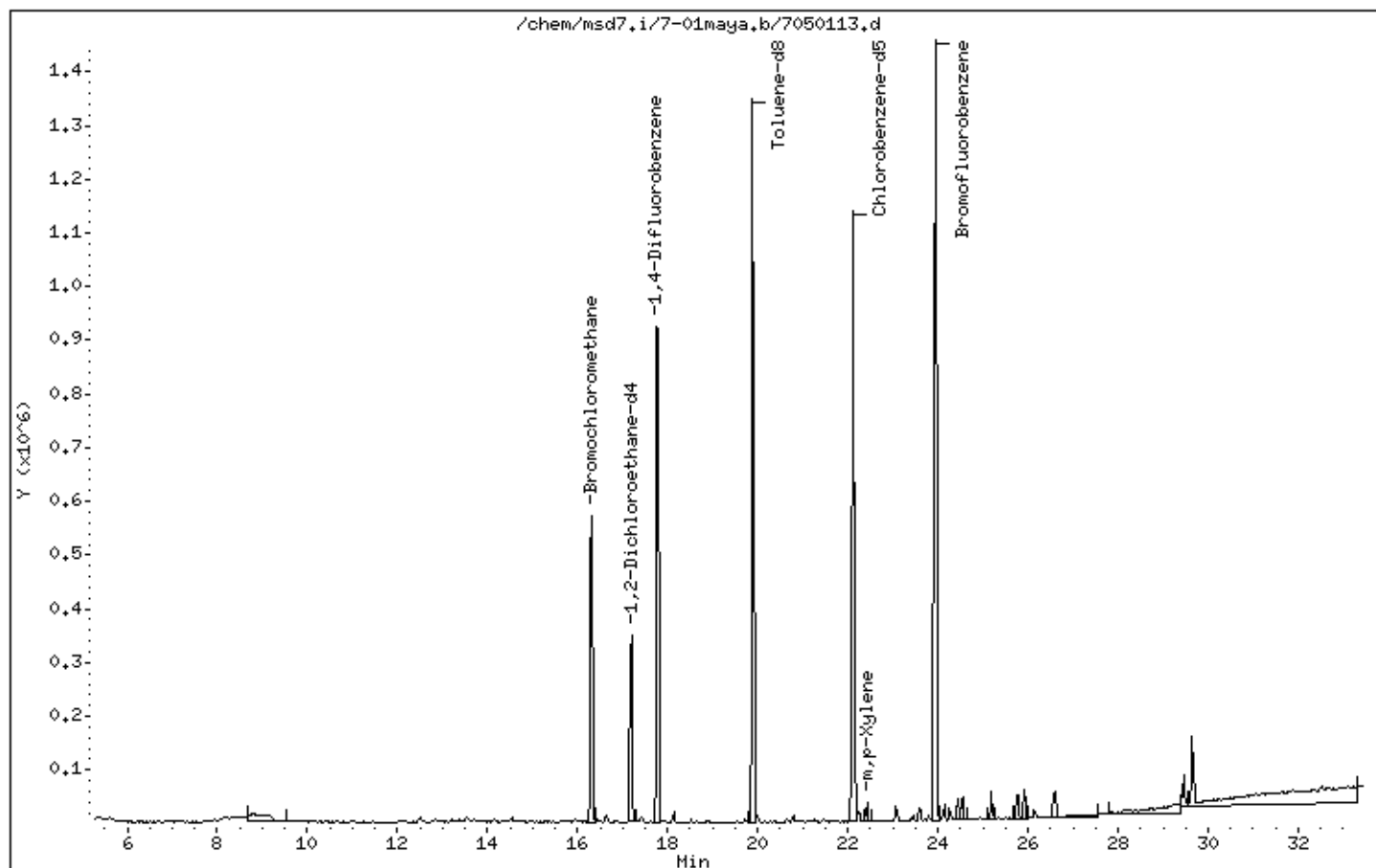
Instrument: msd7.i

Sample Info: #1282-123 (2ppbv)

Operator: jeet

Column phase: RTX-624

Column diameter: 0.32



AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0504472-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050503r1	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/5/05 01:08 PM

Compound	%Recovery
Freon 12	111
Freon 114	109
Chloromethane	108
Vinyl Chloride	110
1,3-Butadiene	108
Bromomethane	112
Chloroethane	109
Freon 11	102
Ethanol	91
Freon 113	100
1,1-Dichloroethene	103
Acetone	96
2-Propanol	95
Carbon Disulfide	101
Methylene Chloride	99
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	103
Hexane	102
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	100
Tetrahydrofuran	100
Chloroform	103
1,1,1-Trichloroethane	102
Cyclohexane	101
Carbon Tetrachloride	107
Benzene	97
1,2-Dichloroethane	105
Heptane	102
Trichloroethene	105
1,2-Dichloropropane	103
1,4-Dioxane	96
Bromodichloromethane	103
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	107
Toluene	102
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	103
Tetrachloroethene	101
2-Hexanone	106
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	105

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0504472-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050503r1	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/5/05 01:08 PM

Compound	%Recovery
Chlorobenzene	102
Ethyl Benzene	103
m,p-Xylene	97
o-Xylene	105
Styrene	109
Bromoform	107
Cumene	100
1,1,2,2-Tetrachloroethane	102
Propylbenzene	99
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	116
Hexachlorobutadiene	127

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i

Lab File ID: 7050503r1.d

Analysis Type: AIR

Lab Sample ID: CCV

Method: /chem/msd7.i/7-05may.b/t141501a.m

Injection Date: 05-MAY-2005 13:08

Init. Cal. Date(s): 16-APR-2005 02-MAY-2005

Init. Cal. Times: 19:41 22:03

Quant Type: ISTD

		_____		MIN		MAX	
COMPOUND		RRF / AMOUNT	RF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====		=====	=====	=====	=====	=====	=====
\$ 41	1,2-Dichloroethane-d4	0.95887	0.93906	0.010	2.06563	30.00000	Averaged
\$ 53	Toluene-d8	0.91825	0.92453	0.010	-0.68332	30.00000	Averaged
\$ 71	Bromofluorobenzene	0.60188	0.62518	0.010	-3.87024	30.00000	Averaged
1	Propylene	2.63119	2.87222	0.010	-9.16056	30.00000	Averaged
2	Dichlorodifluoromethane/Fr1	3.02182	3.35775	0.010	-11.11690	30.00000	Averaged
3	Freon 114	2.89007	3.15923	0.010	-9.31335	30.00000	Averaged
4	Chloromethane	2.73912	2.95107	0.010	-7.73780	30.00000	Averaged
5	Vinyl Chloride	2.27197	2.51096	0.010	-10.51926	30.00000	Averaged
7	1,3-Butadiene	1.86374	2.01196	0.010	-7.95281	30.00000	Averaged
8	Bromomethane	1.44708	1.61751	0.010	-11.77722	30.00000	Averaged
9	Chloroethane	1.00742	1.09443	0.010	-8.63661	30.00000	Averaged
12	Trichlorofluoromethane/Fr11	2.52838	2.58881	0.010	-2.39011	30.00000	Averaged
14	Ethanol	0.89762	0.81997	0.010	8.64970	30.00000	Averaged
17	Freon 113	2.33953	2.33614	0.010	0.14475	30.00000	Averaged
16	1,1-Dichloroethene	0.98005	1.00786	0.010	-2.83735	30.00000	Averaged
29	Vinyl Acetate	0.71449	0.27997	0.010	60.81488	30.00000	Averaged <-
18	Acetone	3.45795	3.32266	0.010	3.91252	30.00000	Averaged
20	2-Propanol	3.55317	3.37088	0.010	5.13034	30.00000	Averaged
19	Carbon Disulfide	3.78796	3.81369	0.010	-0.67917	30.00000	Averaged
23	Methylene Chloride	1.32466	1.31506	0.010	0.72481	30.00000	Averaged
24	MTBE	3.31672	3.17198	0.010	4.36389	30.00000	Averaged
25	trans-1,2-Dichloroethene	0.88403	0.91087	0.010	-3.03550	30.00000	Averaged
27	Hexane	3.47260	3.54427	0.010	-2.06395	30.00000	Averaged
28	1,1-Dichloroethane	3.02930	3.10004	0.010	-2.33532	30.00000	Averaged
32	2-Butanone	0.76200	0.79070	0.010	-3.76634	30.00000	Averaged
31	cis-1,2-Dichloroethene	1.20746	1.20848	0.010	-0.08424	30.00000	Averaged
33	Tetrahydrofuran	3.16153	3.15639	0.010	0.16249	30.00000	Averaged
35	Chloroform	2.57983	2.65871	0.010	-3.05746	30.00000	Averaged
37	1,1,1-Trichloroethane	2.61427	2.68006	0.010	-2.51674	30.00000	Averaged
36	Cyclohexane	2.22804	2.24175	0.010	-0.61533	30.00000	Averaged
39	Carbon Tetrachloride	2.54137	2.71382	0.010	-6.78576	30.00000	Averaged
42	Benzene	1.23615	1.20069	0.010	2.86917	30.00000	Averaged
43	1,2-Dichloroethane	0.40518	0.42489	0.010	-4.86423	30.00000	Averaged
44	Heptane	1.07423	1.09469	0.010	-1.90494	30.00000	Averaged
47	Trichloroethene	0.69208	0.72827	0.010	-5.22910	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i
Lab File ID: 7050503r1.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /chem/msd7.i/7-05may.b/t14l501a.m

Injection Date: 05-MAY-2005 13:08
Init. Cal. Date(s): 16-APR-2005 02-MAY-2005
Init. Cal. Times: 19:41 22:03
Quant Type: ISTD

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
48 1,2-Dichloropropane	0.49324	0.50960	0.010	-3.31525	30.00000	Averaged
49 1,4-Dioxane	0.23669	0.22657	0.010	4.27556	30.00000	Averaged
50 Bromodichloromethane	0.59188	0.60807	0.010	-2.73427	30.00000	Averaged
51 cis-1,3-Dichloropropene	0.52657	0.55368	0.010	-5.14998	30.00000	Averaged
52 4-Methyl-2-pentanone	1.37626	1.47398	0.010	-7.10066	30.00000	Averaged
54 Toluene	1.52889	1.55296	0.010	-1.57407	30.00000	Averaged
55 trans-1,3-Dichloropropene	0.42551	0.44351	0.010	-4.23091	30.00000	Averaged
56 1,1,2-Trichloroethane	0.53934	0.55348	0.010	-2.62172	30.00000	Averaged
57 Tetrachloroethene	0.88073	0.89083	0.010	-1.14637	30.00000	Averaged
58 2-Hexanone	0.70618	0.75229	0.010	-6.52994	30.00000	Averaged
59 Dibromochloromethane	0.76018	0.79587	0.010	-4.69487	30.00000	Averaged
61 1,2-Dibromoethane	0.79313	0.83331	0.010	-5.06610	30.00000	Averaged
63 Chlorobenzene	1.47976	1.51296	0.010	-2.24311	30.00000	Averaged
64 Ethyl Benzene	0.78583	0.80732	0.010	-2.73413	30.00000	Averaged
65 m,p-Xylene	1.05585	1.02867	0.010	2.57458	30.00000	Averaged
66 o-Xylene	0.91766	0.96393	0.010	-5.04253	30.00000	Averaged
67 Styrene	1.00210	1.09696	0.010	-9.46591	30.00000	Averaged
68 Bromoform	0.64536	0.69077	0.010	-7.03537	30.00000	Averaged
70 Cumene	2.19523	2.19192	0.010	0.15087	30.00000	Averaged
72 1,1,2,2-Tetrachloroethane	0.94563	0.96743	0.010	-2.30598	30.00000	Averaged
73 Propylbenzene	1.74953	1.73690	0.010	0.72213	30.00000	Averaged
74 4-Ethyltoluene	2.13391	2.13668	0.010	-0.12997	30.00000	Averaged
75 1,3,5-Trimethylbenzene	1.92287	2.03653	0.010	-5.91143	30.00000	Averaged
78 1,2,4-Trimethylbenzene	1.79116	1.88754	0.010	-5.38084	30.00000	Averaged
81 1,3-Dichlorobenzene	1.64098	1.68660	0.010	-2.78023	30.00000	Averaged
82 1,4-Dichlorobenzene	1.61688	1.63563	0.010	-1.15957	30.00000	Averaged
83 alpha-chlorotoluene	0.93643	0.93518	0.010	0.13312	30.00000	Averaged
85 1,2-Dichlorobenzene	1.44278	1.49061	0.010	-3.31492	30.00000	Averaged
87 1,2,4-Trichlorobenzene	0.51412	0.59641	0.010	-16.00544	30.00000	Averaged
88 Hexachlorobutadiene	0.35771	0.45305	0.010	-26.65400	30.00000	Averaged
=====	=====	=====	=====	=====	=====	=====

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

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Data file : /chem/msd7.i/7-05may.b/7050503r1.d  
Lab Smp Id: CCV                      Client Smp ID: CCV  
Inj Date  : 05-MAY-2005 13:08  
Operator   : jeet                    Inst ID: msd7.i  
Smp Info   : 25mL #1282-130 (200ppbv)  
Misc Info  : 2ml=10ppbv  
Comment    :  
Method     : /chem/msd7.i/7-05may.b/t14l501a.m  
Meth Date  : 09-May-2005 14:50 lsoohoo Quant Type: ISTD  
Cal Date   : 01-MAY-2005 17:45      Cal File: 7050113.d  
Als bottle: 1                       Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE                  Compound Sublist: AT.sub  
Target Version: 3.50                Sample Matrix: AIR  
Processing Host: eeyore
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Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
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RT	EXP	RT (REL	RT)	MASS	RESPONSE	AMOUNTS		TARGET	RANGE	RATIO
						CAL-AMT	ON-COL			
==	=====	=====	=====	=====	=====	(PPBV)	(PPBV)	=====	=====	=====
* 34	Bromochloromethane					CAS #:		74-97-5		
16.317	16.317	(1.000)		130	273711	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)		128	210117			47.67-	107.67	76.77
16.317	16.317	(1.000)		49	502061			141.21-	201.21	183.43

* 46	1,4-Difluorobenzene					CAS #:		540-36-3		
17.782	17.782	(1.000)		114	1190742	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)		88	150036			0.00-	42.60	12.60

* 62	Chlorobenzene-d5					CAS #:		3114-55-4		
22.123	22.123	(1.000)		117	1102533	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)		82	492364			13.88-	73.88	44.66

\$ 41	1,2-Dichloroethane-d4					CAS #:		17060-07-0		
17.202	17.202	(1.054)		65	257032	10.0000	9.793	80.00-	120.00	100.00
17.202	17.202	(1.054)		67	155794			39.84-	99.84	60.61

\$ 53	Toluene-d8					CAS #:		2037-26-5		
19.884	19.884	(1.118)		98	1100875	10.0000	10.068	80.00-	120.00	100.00
19.884	19.884	(1.118)		70	94473			0.00-	38.58	8.58

AMOUNTS									
		CAL-AMT		ON-COL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 53 Toluene-d8 (continued)									
19.884	19.884	(1.118)	100	750017			38.13- 98.13	68.13	

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	689279	10.0000	10.387	80.00- 120.00	100.00	
23.948	23.948	(1.082)	95	711268			73.19- 133.19	103.19	
23.948	23.948	(1.082)	176	666267			66.66- 126.66	96.66	

1 Propylene						CAS #:	115-07-1		
5.589	5.589	(0.343)	41	786158	10.0000	10.916	80.00- 120.00	100.00	
5.589	5.589	(0.343)	42	527589			37.25- 97.25	67.11	
5.589	5.589	(0.343)	39	516554			35.80- 95.80	65.71	

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.921	5.921	(0.363)	85	919054	10.0000	11.112	80.00- 120.00	100.00	
5.948	5.948	(0.365)	87	293563			1.94- 61.94	31.94	

3 Freon 114						CAS #:	76-14-2		
7.054	7.054	(0.432)	135	864716	10.0000	10.931	80.00- 120.00	100.00	
7.054	7.054	(0.432)	137	268116			1.56- 61.56	31.01	

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	807740	10.0000	10.774	80.00- 120.00	100.00	
7.303	7.303	(0.448)	52	250444			1.37- 61.37	31.01	

5 Vinyl Chloride						CAS #:	75-01-4		
8.077	8.077	(0.495)	62	687278	10.0000	11.052	80.00- 120.00	100.00	
8.077	8.077	(0.495)	64	202508			0.00- 59.47	29.47	

7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.298	(0.509)	54	550695	10.0000	10.795	80.00- 120.00	100.00	
8.298	8.298	(0.509)	39	561094			69.23- 129.23	101.89	

8 Bromomethane						CAS #:	74-83-9		
9.709	9.709	(0.595)	94	442729	10.0000	11.178	80.00- 120.00	100.00	
9.709	9.709	(0.595)	96	415019			63.74- 123.74	93.74	

9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	299558	10.0000	10.864	80.00- 120.00	100.00	
10.206	10.206	(0.626)	66	85853			0.00- 58.86	28.66	

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	708587	10.0000	10.239	80.00- 120.00	100.00	
11.036	11.036	(0.676)	103	455133			34.23- 94.23	64.23	

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	224436	10.0000	9.135	80.00- 120.00	100.00	

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
14 Ethanol (continued)									
12.031	12.031	(0.737)	43	43207			0.00-	47.77	19.25
12.031	12.031	(0.737)	46	89769			10.78-	70.78	40.00

17 Freon 113						CAS #:	76-13-1		
12.556	12.556	(0.770)	151	639428	10.0000	9.986	80.00-	120.00	100.00
12.529	12.529	(0.768)	153	406207			33.53-	93.53	63.53
12.529	12.529	(0.768)	101	678841			74.46-	134.46	106.16

16 1,1-Dichloroethene						CAS #:	75-35-4		
12.529	12.529	(0.768)	98	275861	10.0000	10.284	80.00-	120.00	100.00
12.529	12.529	(0.768)	61	733651			218.76-	278.76	265.95
12.529	12.529	(0.768)	96	439635			127.21-	187.21	159.37

29 Vinyl Acetate						CAS #:	108-05-4		
15.045	15.045	(0.922)	43	76632	10.0000	3.918	80.00-	120.00	100.00
15.045	15.045	(0.922)	42	7591			0.00-	36.61	9.91
15.045	15.045	(0.922)	86	4907			0.00-	36.81	6.40

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	909448	10.0000	9.609	80.00-	120.00	100.00
12.833	12.833	(0.786)	58	280872			1.60-	61.60	30.88

20 2-Propanol						CAS #:	67-63-0		
13.220	13.220	(0.810)	45	922647	10.0000	9.487	80.00-	120.00	100.00
13.220	13.220	(0.810)	43	154940			0.00-	45.32	16.79
13.220	13.220	(0.810)	59	30290			0.00-	33.28	3.28

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	1043849	10.0000	10.068	80.00-	120.00	100.00

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	359946	10.0000	9.928	80.00-	120.00	100.00
13.718	13.718	(0.841)	49	716468			169.05-	229.05	199.05
13.718	13.718	(0.841)	51	216655			26.82-	86.82	60.19

24 MTBE						CAS #:	1634-04-4		
14.132	14.132	(0.866)	73	868207	10.0000	9.564	80.00-	120.00	100.00
14.132	14.132	(0.866)	57	323277			6.00-	66.00	37.24
14.132	14.132	(0.866)	41	348136			5.78-	65.78	40.10

25 trans-1,2-Dichloroethene						CAS #:	156-60-5		
14.160	14.160	(0.868)	98	249314	10.0000	10.304	80.00-	120.00	100.00
14.160	14.160	(0.868)	61	602928			206.73-	266.73	241.83
14.160	14.160	(0.868)	96	386118			128.21-	188.21	154.87

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
27 Hexane						CAS #: 110-54-3			
14.547	14.547	(0.892)	57	970106	10.0000	10.206	80.00-	120.00	100.00
14.547	14.547	(0.892)	43	716204			41.99-	101.99	73.83
14.575	14.575	(0.893)	86	118123			0.00-	42.67	12.18
28 1,1-Dichloroethane						CAS #: 75-34-3			
14.990	14.990	(0.919)	63	848515	10.0000	10.234	80.00-	120.00	100.00
14.990	14.990	(0.919)	65	243798			0.00-	58.73	28.73
32 2-Butanone						CAS #: 78-93-3			
15.957	15.957	(0.978)	72	216423	10.0000	10.377	80.00-	120.00	100.00
15.957	15.957	(0.978)	43	1450627			640.27-	700.27	670.27
15.957	15.957	(0.978)	57	92328			11.54-	71.54	42.66
31 cis-1,2-Dichloroethene						CAS #: 156-59-2			
15.930	15.930	(0.976)	98	330773	10.0000	10.008	80.00-	120.00	100.00
15.930	15.930	(0.976)	61	727310			189.88-	249.88	219.88
15.930	15.930	(0.976)	96	526329			129.12-	189.12	159.12
33 Tetrahydrofuran						CAS #: 109-99-9			
16.317	16.317	(1.000)	42	863939	10.0000	9.984	80.00-	120.00	100.00
16.317	16.317	(1.000)	71	187642			0.00-	51.72	21.72
16.317	16.317	(1.000)	72	208760			0.00-	54.85	24.16
35 Chloroform						CAS #: 67-66-3			
16.400	16.400	(1.005)	83	727718	10.0000	10.306	80.00-	120.00	100.00
16.400	16.400	(1.005)	85	467390			34.23-	94.23	64.23
37 1,1,1-Trichloroethane						CAS #: 71-55-6			
16.649	16.649	(1.020)	97	733563	10.0000	10.252	80.00-	120.00	100.00
16.649	16.649	(1.020)	99	470769			34.18-	94.18	64.18
36 Cyclohexane						CAS #: 110-82-7			
16.649	16.649	(1.020)	84	613592	10.0000	10.062	80.00-	120.00	100.00
16.649	16.649	(1.020)	56	1037742			129.56-	189.56	169.13
16.649	16.649	(1.020)	41	591578			56.71-	116.71	96.41
39 Carbon Tetrachloride						CAS #: 56-23-5			
16.870	16.870	(1.034)	119	742803	10.0000	10.678	80.00-	120.00	100.00
16.870	16.870	(1.034)	117	736901			69.21-	129.21	99.21
42 Benzene						CAS #: 71-43-2			
17.202	17.202	(0.967)	78	1429709	10.0000	9.713	80.00-	120.00	100.00
17.202	17.202	(0.967)	77	321884			0.00-	51.60	22.51
43 1,2-Dichloroethane						CAS #: 107-06-2			
17.312	17.312	(0.974)	62	505935	10.0000	10.486	80.00-	120.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
43 1,2-Dichloroethane (continued)									
17.312	17.312	(0.974)	64	148891			0.00-	59.97	29.43

44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	1303494	10.0000	10.190	80.00-	120.00	100.00
17.423	17.423	(0.980)	57	587838			15.52-	75.52	45.10
17.450	17.450	(0.981)	100	158978			0.00-	42.74	12.20

47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	867182	10.0000	10.523	80.00-	120.00	100.00
18.142	18.142	(1.020)	95	685891			47.95-	107.95	79.09
18.142	18.142	(1.020)	97	440180			20.27-	80.27	50.76

48 1,2-Dichloropropane						CAS #:	78-87-5		
18.529	18.529	(1.042)	63	606797	10.0000	10.332	80.00-	120.00	100.00
18.529	18.529	(1.042)	62	451875			44.47-	104.47	74.47
18.529	18.529	(1.042)	41	390480			34.35-	94.35	64.35

49 1,4-Dioxane						CAS #:	123-91-1		
18.639	18.639	(1.048)	88	269786	10.0000	9.572	80.00-	120.00	100.00
18.639	18.639	(1.048)	58	250830			62.97-	122.97	92.97
18.639	18.639	(1.048)	57	76407			0.00-	56.51	28.32

50 Bromodichloromethane						CAS #:	75-27-4		
18.888	18.888	(1.062)	83	724050	10.0000	10.273	80.00-	120.00	100.00
18.888	18.888	(1.062)	85	459050			33.40-	93.40	63.40

51 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
19.552	19.552	(1.099)	75	659295	10.0000	10.515	80.00-	120.00	100.00
19.552	19.552	(1.099)	77	206950			1.39-	61.39	31.39
19.524	19.524	(1.098)	39	499728			45.80-	105.80	75.80

52 4-Methyl-2-pentanone						CAS #:	108-10-1		
19.690	19.690	(1.107)	43	1755129	10.0000	10.710	80.00-	120.00	100.00
19.690	19.690	(1.107)	58	604889			4.50-	64.50	34.46
19.718	19.718	(1.109)	85	175681			0.00-	40.30	10.01

54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	1849169	10.0000	10.157	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	1103533			29.68-	89.68	59.68

55 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
20.354	20.354	(0.920)	75	488987	10.0000	10.423	80.00-	120.00	100.00
20.354	20.354	(0.920)	77	154808			1.66-	61.66	31.66
20.354	20.354	(0.920)	39	379789			47.67-	107.67	77.67

AMOUNTS									
				CAL-AMT		ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
56 1,1,2-Trichloroethane						CAS #:	79-00-5		
20.658	20.658	(0.934)	97	610233	10.0000	10.262	80.00- 120.00	100.00	
20.658	20.658	(0.934)	99	383902			32.91- 92.91	62.91	
20.630	20.630	(0.932)	83	478062			48.34- 108.34	78.34	

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	982164	10.0000	10.115	80.00- 120.00	100.00	
20.796	20.796	(0.940)	129	678973			39.13- 99.13	69.13	
20.796	20.796	(0.940)	131	670377			38.26- 98.26	68.26	

58 2-Hexanone						CAS #:	591-78-6		
20.934	20.934	(0.946)	58	829428	10.0000	10.653	80.00- 120.00	100.00	
20.934	20.934	(0.946)	43	1699783			174.93- 234.93	204.93	
20.934	20.934	(0.946)	100	128804			0.00- 46.47	15.53	

59 Dibromochloromethane						CAS #:	124-48-1		
21.238	21.238	(0.960)	129	877468	10.0000	10.469	80.00- 120.00	100.00	
21.238	21.238	(0.960)	208	47381			0.00- 35.53	5.40	

61 1,2-Dibromoethane						CAS #:	106-93-4		
21.460	21.460	(0.970)	107	918752	10.0000	10.507	80.00- 120.00	100.00	
21.460	21.460	(0.970)	109	870094			64.70- 124.70	94.70	

63 Chlorobenzene						CAS #:	108-90-7		
22.151	22.151	(1.001)	112	1668084	10.0000	10.224	80.00- 120.00	100.00	
22.151	22.151	(1.001)	114	528660			1.69- 61.69	31.69	
22.151	22.151	(1.001)	77	753516			15.17- 75.17	45.17	

64 Ethyl Benzene						CAS #:	100-41-4		
22.234	22.234	(1.005)	106	890093	10.0000	10.273	80.00- 120.00	100.00	
22.234	22.234	(1.005)	91	2422931			252.96- 312.96	272.21	

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	2268287	20.0000	19.485	80.00- 120.00	100.00	
22.427	22.427	(1.014)	91	3771391			116.47- 176.47	166.27	

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	1062763	10.0000	10.504	80.00- 120.00	100.00	
23.063	23.063	(1.042)	91	1869352			145.90- 205.90	175.90	

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	1209434	10.0000	10.946	80.00- 120.00	100.00	
23.091	23.091	(1.044)	78	461185			8.13- 68.13	38.13	

68 Bromoform						CAS #:	75-25-2		
23.450	23.450	(1.060)	173	761595	10.0000	10.704	80.00- 120.00	100.00	

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====		=====
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	389490			21.14-	81.14	51.14

70 Cumene						CAS #:	98-82-8		
23.589	23.589	(1.066)	105	2416662	10.0000	9.985	80.00-	120.00	100.00
23.616	23.616	(1.067)	120	777708			2.18-	62.18	32.18

72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.142	24.142	(1.091)	83	1066627	10.0000	10.230	80.00-	120.00	100.00
24.142	24.142	(1.091)	85	689727			34.66-	94.66	64.66

73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	1914990	10.0000	9.928	80.00-	120.00	100.00
24.252	24.252	(1.096)	120	557735			0.00-	58.33	29.12

74 4-Ethyltoluene						CAS #:	622-96-8		
24.446	24.446	(1.105)	105	2355761	10.0000	10.013	80.00-	120.00	100.00
24.446	24.446	(1.105)	120	843516			5.81-	65.81	35.81

75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	2245346	10.0000	10.591	80.00-	120.00	100.00
24.556	24.556	(1.110)	120	1359757			30.56-	90.56	60.56

78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	2081071	10.0000	10.538	80.00-	120.00	100.00
25.192	25.192	(1.139)	120	1188368			27.10-	87.10	57.10

81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	1859534	10.0000	10.278	80.00-	120.00	100.00
25.773	25.773	(1.165)	148	1177649			33.01-	93.01	63.33
25.745	25.745	(1.164)	111	610228			1.87-	61.87	32.82

82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	1803333	10.0000	10.116	80.00-	120.00	100.00
25.911	25.911	(1.171)	148	1152260			33.01-	93.01	63.90
25.911	25.911	(1.171)	111	576475			0.90-	60.90	31.97

83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	1031071	10.0000	9.987	80.00-	120.00	100.00
26.132	26.132	(1.181)	126	276266			0.00-	57.00	26.79

85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	1643447	10.0000	10.331	80.00-	120.00	100.00
26.602	26.602	(1.202)	148	1040071			33.29-	93.29	63.29
26.602	26.602	(1.202)	111	566050			4.44-	64.44	34.44

RT	EXP RT	RT (REL RT)	MASS	RESPONSE	AMOUNTS		TARGET RANGE	RATIO
					CAL-AMT (PPBV)	ON-COL (PPBV)		
==	=====	=====	====	=====	=====	=====	=====	=====
87	1,2,4-Trichlorobenzene					CAS #:	120-82-1	
29.450	29.450	(1.331)	180	657557	10.0000	11.600	80.00- 120.00	100.00
29.450	29.450	(1.331)	182	623671			64.85- 124.85	94.85

88	Hexachlorobutadiene					CAS #:	87-68-3	
29.644	29.644	(1.340)	225	499501	10.0000	12.665	80.00- 120.00	100.00
29.644	29.644	(1.340)	223	313126			33.01- 93.01	62.69

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050503r1.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: jeet
Method File: /chem/msd7.i/7-05may.b/t14l501a.m
Misc Info: 2ml=10ppbv

Calibration Date: 05-MAY-2005
Calibration Time: 13:54
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	291275	174765	407785	273711	-6.03
46 1,4-Difluorobenze	1328895	797337	1860453	1190742	-10.40
62 Chlorobenzene-d5	1094898	656939	1532857	1102533	0.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 05-MAY-2005 13:08

Client ID: CCV

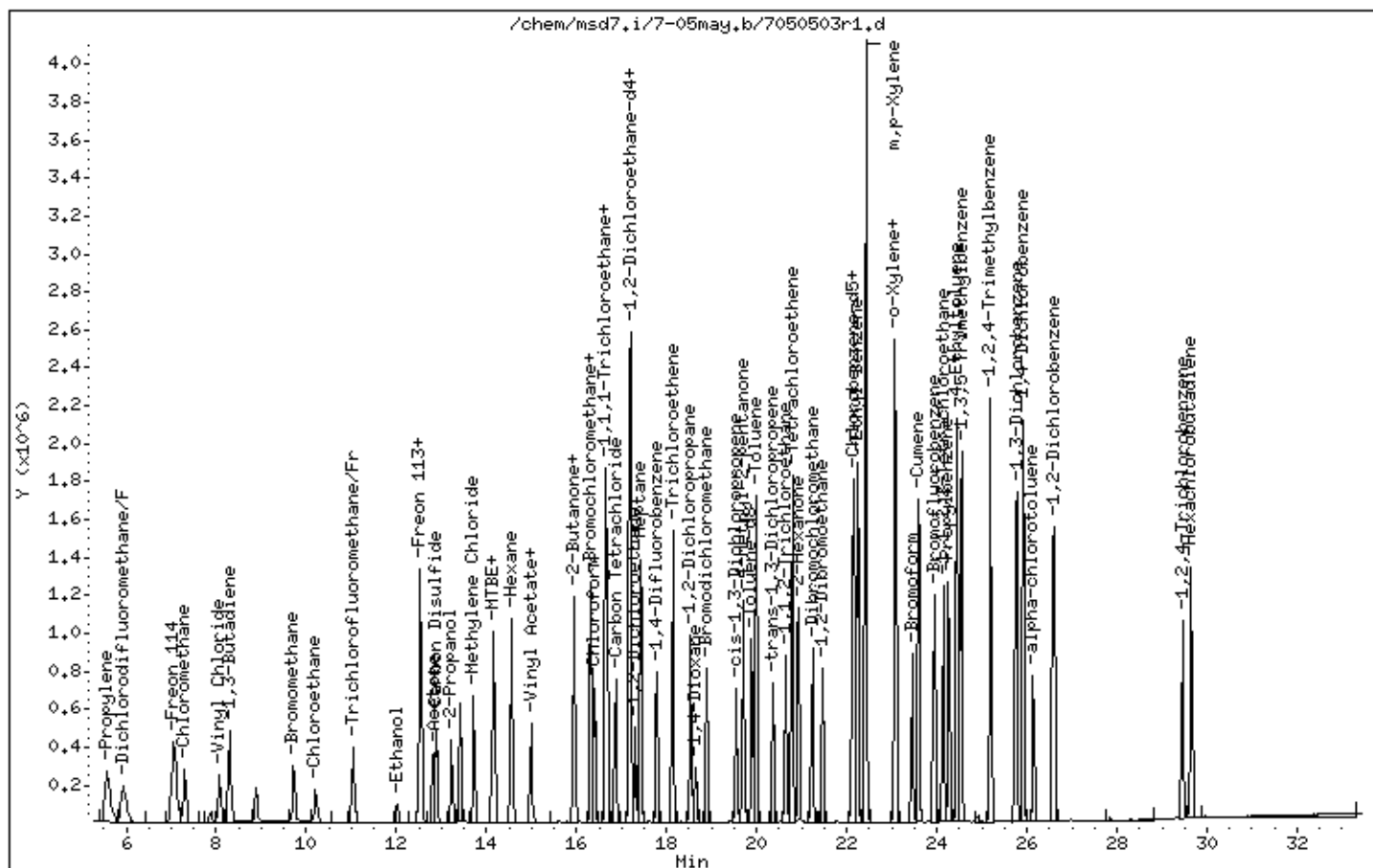
Instrument: msd7.i

Sample Info: 25mL #1282-130 (200ppbv)

Operator: jeet

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

Data file : /chem/msd7.i/7-05may.b/7050504r1.d

Lab Smp Id: CCVClient Smp ID: CCV

Inj Date : 05-MAY-2005 13:54

Operator : ABInst ID: msd7.i

Smp Info : 50mL #1243-180a

Misc Info : 50ml=10ppbv

Comment :

Method : /chem/msd7.i/7-05may.b/t14l501a.m

Meth Date : 09-May-2005 14:49 lsoohooQuant Type: ISTD

Cal Date : 01-MAY-2005 17:45Cal File: 7050113.d

Als bottle: 1Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTECompound Sublist: RetecCCV.sub

Target Version: 3.50Sample Matrix: AIR

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

AMOUNTS									
				CAL - AMT		ON - COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 34 Bromochloromethane						CAS #: 74-97-5			
16.317	16.317	(1.000)	130	291275	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)	128	227402			47.67-	107.67	78.07
16.317	16.317	(1.000)	49	520650			141.21-	201.21	178.75

\$ 41 1,2-Dichloroethane-d4						CAS #: 17060-07-0			
17.202	17.202	(1.054)	65	279841	10.0000	10.000	80.00-	120.00	100.00
17.202	17.202	(1.054)	67	166507			39.84-	99.84	59.50

* 46 1,4-Difluorobenzene						CAS #: 540-36-3			
17.782	17.782	(1.000)	114	1328895	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)	88	164571			0.00-	42.38	12.38

\$ 53 Toluene-d8						CAS #: 2037-26-5			
19.884	19.884	(1.118)	98	1199363	10.0000	9.829	80.00-	120.00	100.00
19.884	19.884	(1.118)	70	101783			0.00-	38.49	8.49
19.884	19.884	(1.118)	100	819860			38.36-	98.36	68.36

* 62 Chlorobenzene-d5						CAS #: 3114-55-4			
22.123	22.123	(1.000)	117	1094898	10.0000		80.00-	120.00	100.00

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 62 Chlorobenzene-d5 (continued)									
22.123	22.123	(1.000)	82	483839			13.88-	73.88	44.19

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	668508	10.0000	10.144	80.00-	120.00	100.00
23.948	23.948	(1.082)	95	691983			73.51-	133.51	103.51
23.948	23.948	(1.082)	176	647258			66.82-	126.82	96.82

10 Isopentane						CAS #:	78-78-4		
10.372	10.372	(0.636)	57	438394	10.0000	10.382	80.00-	120.00	100.00
10.372	10.372	(0.636)	43	779600			135.15-	195.15	177.83
10.372	10.372	(0.636)	42	696959			113.84-	173.84	158.98

22 2-Methylpentane						CAS #:	107-83-5		
13.580	13.580	(0.832)	71	339554	10.0000	10.095	80.00-	120.00	100.00
13.580	13.580	(0.832)	43	1549421			478.79-	538.79	456.31
13.580	13.580	(0.832)	42	824703			236.46-	296.46	242.88

38 2,3-Dimethylpentane						CAS #:	565-59-3		
16.676	16.676	(0.938)	71	290795	10.0000	10.336	80.00-	120.00	100.00
16.676	16.676	(0.938)	56	1140084			390.49-	450.49	392.06
16.676	16.676	(0.938)	43	1017277			361.05-	421.05	349.83

40 Isooctane						CAS #:	540-84-1		
17.174	17.174	(1.053)	56	1074187	10.0000	9.576	80.00-	120.00	100.00
17.174	17.174	(1.053)	99	132250			0.00-	42.05	12.31
17.174	17.174	(1.053)	41	782342			46.92-	106.92	72.83

45 Thiophene						CAS #:	110-02-1		
17.533	17.533	(0.986)	84	610853	7.30000	7.580	80.00-	120.00	100.00
17.533	17.533	(0.986)	58	452037			50.78-	110.78	74.00
0.000	1.000	(0.000)	0	0			0.00-	30.00	0.00

84 Indan						CAS #:	496-11-7		
26.326	26.326	(1.190)	117	1948311	10.0000	11.248	80.00-	120.00	100.00
26.326	26.326	(1.190)	118	1097521			27.47-	87.47	56.33
26.326	26.326	(1.190)	91	225889			0.00-	42.44	11.59

86 Indene						CAS #:	95-13-6		
26.713	26.713	(1.207)	115	1229718	10.0000	10.705	80.00-	120.00	100.00
26.713	26.713	(1.207)	116	1215071			70.82-	130.82	98.81
0.000	1.000	(0.000)	0	0			0.00-	30.00	0.00

89 Naphthalene						CAS #:	91-20-3		
29.948	29.948	(1.354)	128	811212	4.80000	5.897	80.00-	120.00	100.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050504r1.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msd7.i/7-05may.b/t14l501a.m
Misc Info: 50ml=10ppbv

Calibration Date: 05-MAY-2005
Calibration Time: 13:54
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	291275	174765	407785	291275	0.00
46 1,4-Difluorobenze	1328895	797337	1860453	1328895	0.00
62 Chlorobenzene-d5	1094898	656939	1532857	1094898	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 05-MAY-2005 13:54

Client ID: CCV

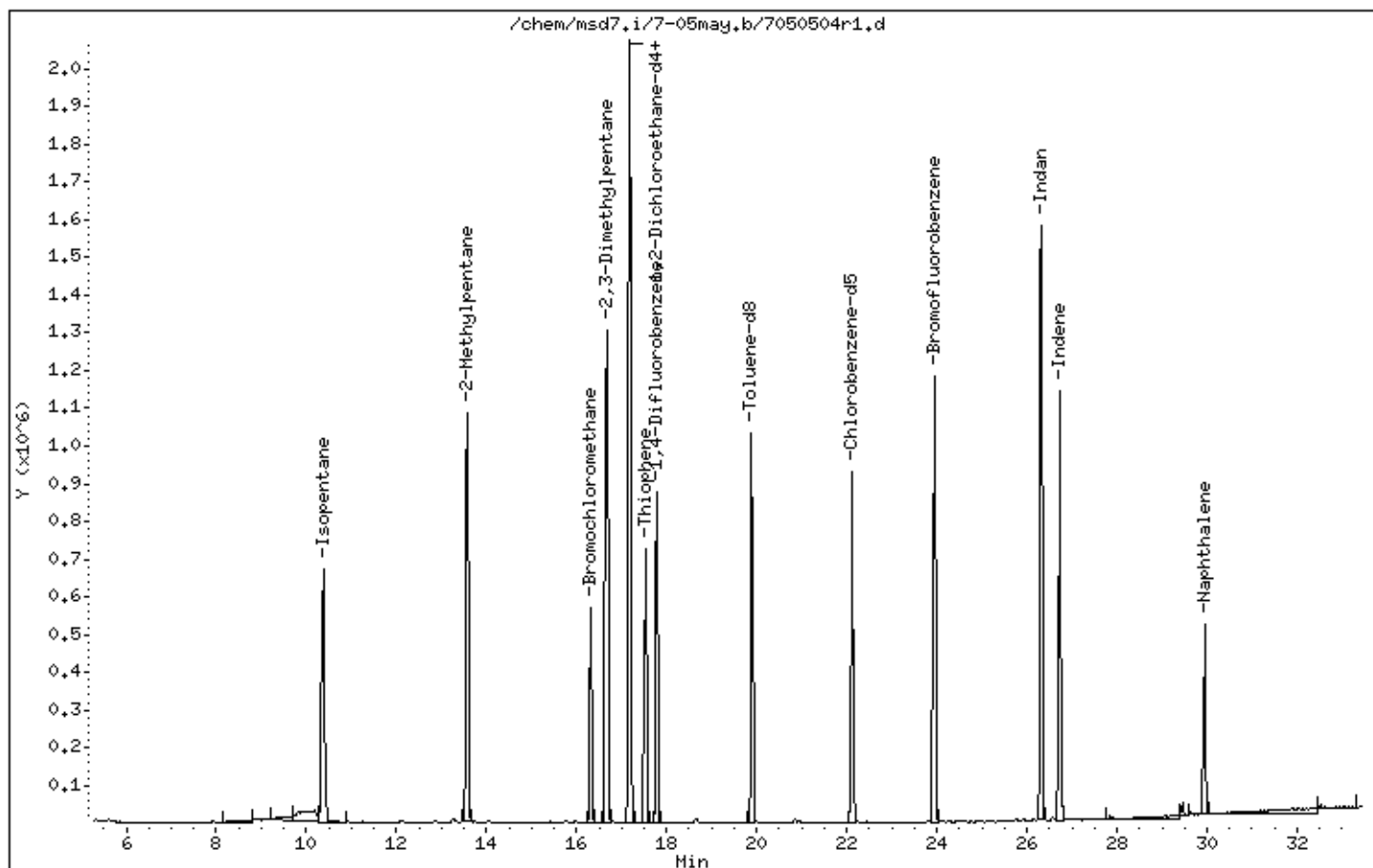
Instrument: msd7.i

Sample Info: 50mL #1243-180a

Operator: AB

Column phase: RTX-624

Column diameter: 0.32



AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0504472-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050505r1	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/5/05 02:55 PM

Compound	%Recovery
Freon 12	112
Freon 114	112
Chloromethane	110
Vinyl Chloride	110
1,3-Butadiene	127
Bromomethane	112
Chloroethane	105
Freon 11	102
Ethanol	96
Freon 113	99
1,1-Dichloroethene	97
Acetone	95
2-Propanol	110
Carbon Disulfide	104
Methylene Chloride	96
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	118
Hexane	102
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	85
Tetrahydrofuran	95
Chloroform	95
1,1,1-Trichloroethane	85
Cyclohexane	99
Carbon Tetrachloride	94
Benzene	82
1,2-Dichloroethane	88
Heptane	102
Trichloroethene	86
1,2-Dichloropropane	82
1,4-Dioxane	118
Bromodichloromethane	97
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	92
Toluene	91
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	94
Tetrachloroethene	94
2-Hexanone	90
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	93

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0504472-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7050505r1	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/5/05 02:55 PM

Compound	%Recovery
Chlorobenzene	95
Ethyl Benzene	97
m,p-Xylene	88
o-Xylene	98
Styrene	130
Bromoform	124
Cumene	91
1,1,2,2-Tetrachloroethane	101
Propylbenzene	133
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	128
Hexachlorobutadiene	132 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 7-05may
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: LCS	Client Smp ID: LCS
Level: LOW	Operator: BD
Data Type: MS DATA	SampleType: LCS
SpikeList File: m1502.spk	Quant Type: ISTD
Sublist File: AT.sub	
Method File: /chem/msd7.i/7-05may.b/t141501a.m	
Misc Info: 50mL [5.0ppbv]	

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
1 Propylene	5.000	4.866	97.32	60-140
2 Dichlorodifluorome	5.000	5.628	112.56	70-130
3 Freon 114	5.000	5.596	111.93	70-130
4 Chloromethane	5.000	5.515	110.30	70-130
5 Vinyl Chloride	5.000	5.486	109.72	70-130
7 1,3-Butadiene	5.000	6.342	126.83	60-140
8 Bromomethane	5.000	5.587	111.74	70-130
9 Chloroethane	5.000	5.255	105.11	70-130
12 Trichlorofluoromet	5.000	5.124	102.49	70-130
14 Ethanol	3.750	3.584	95.59	60-140
17 Freon 113	5.000	4.938	98.77	70-130
16 1,1-Dichloroethene	5.000	4.865	97.30	70-130
18 Acetone	5.000	4.766	95.33	60-140
19 Carbon Disulfide	5.000	5.226	104.52	60-140
20 2-Propanol	3.800	4.163	109.55	60-140
23 Methylene Chloride	5.000	4.787	95.74	70-130
24 MTBE	5.000	4.906	98.12	60-140
25 trans-1,2-Dichloro	5.000	5.905	118.11	60-140
27 Hexane	5.000	5.109	102.18	60-140
28 1,1-Dichloroethane	5.000	4.784	95.68	70-130
29 Vinyl Acetate	5.000	2.958	59.16*	70-130
31 cis-1,2-Dichloroet	5.000	4.250	85.01	70-130
32 2-Butanone	5.000	5.023	100.45	60-140
33 Tetrahydrofuran	5.000	4.756	95.12	60-140
35 Chloroform	5.000	4.730	94.61	70-130
36 Cyclohexane	5.000	4.958	99.16	60-140
37 1,1,1-Trichloroeth	5.000	4.247	84.94	70-130
39 Carbon Tetrachlori	5.000	4.689	93.78	70-130
42 Benzene	5.000	4.110	82.20	70-130
43 1,2-Dichloroethane	5.000	4.407	88.14	70-130
44 Heptane	5.000	5.098	101.96	60-140
47 Trichloroethene	5.000	4.298	85.96	70-130
48 1,2-Dichloropropan	5.000	4.102	82.04	70-130

Report Date: 09-May-2005 14:51

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
49 1,4-Dioxane	5.000	5.894	117.89	60-140
50 Bromodichlorometha	5.000	4.843	96.87	60-140
51 cis-1,3-Dichloropr	5.000	4.574	91.48	70-130
52 4-Methyl-2-pentano	5.000	4.598	91.95	60-140
54 Toluene	5.000	4.570	91.39	70-130
55 trans-1,3-Dichloro	5.000	5.154	103.09	70-130
56 1,1,2-Trichloroeth	5.000	4.702	94.03	70-130
57 Tetrachloroethene	5.000	4.706	94.12	70-130
58 2-Hexanone	5.000	4.488	89.77	60-140
59 Dibromochlorometha	5.000	5.409	108.18	60-140
61 1,2-Dibromoethane	5.000	4.674	93.48	70-130
63 Chlorobenzene	5.000	4.761	95.22	70-130
64 Ethyl Benzene	5.000	4.833	96.66	70-130
65 m,p-Xylene	10.000	8.771	87.71	70-130
66 o-Xylene	5.000	4.922	98.44	70-130
67 Styrene	5.000	6.487	129.74	70-130
68 Bromoform	5.000	6.199	123.98	60-140
72 1,1,2,2-Tetrachlor	5.000	5.073	101.46	70-130
74 4-Ethyltoluene	5.000	4.778	95.56	60-140
75 1,3,5-Trimethylben	5.000	5.080	101.60	70-130
78 1,2,4-Trimethylben	5.000	5.408	108.16	70-130
81 1,3-Dichlorobenzen	5.000	4.860	97.21	70-130
82 1,4-Dichlorobenzen	5.000	4.892	97.84	70-130
83 alpha-chlorotoluen	5.000	5.038	100.76	70-130
85 1,2-Dichlorobenzen	5.000	5.210	104.21	70-130
87 1,2,4-Trichloroben	6.900	8.830	127.96	70-130
88 Hexachlorobutadien	6.750	8.928	132.27*	70-130
70 Cumene	5.000	4.551	91.01	60-140
73 Propylbenzene	5.000	6.637	132.75	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 41 1,2-Dichloroethane	10.000	9.864	98.64	70-130
\$ 53 Toluene-d8	10.000	9.940	99.40	70-130
\$ 71 Bromofluorobenzene	10.000	10.072	100.72	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD T014/T015

```
Data file : /chem/msd7.i/7-05may.b/7050505r1.d  
Lab Smp Id: LCS                      Client Smp ID: LCS  
Inj Date  : 05-MAY-2005 14:55  
Operator   : BD                     Inst ID: msd7.i  
Smp Info   : 1282-120 [50ppbv] Can#4334  
Misc Info  : 50mL [5.0ppbv]  
Comment    :  
Method     : /chem/msd7.i/7-05may.b/t14l1501a.m  
Meth Date  : 09-May-2005 14:50 lsoohoo Quant Type: ISTD  
Cal Date   : 01-MAY-2005 17:45       Cal File: 7050113.d  
Als bottle: 1                        QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP RTE                   Compound Sublist: AT.sub  
Target Version: 3.50                Sample Matrix: AIR  
Processing Host: eevore
```

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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91	91
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95	95
96	96
97	97
98	98
99	99
100	100

RT	EXP	RT (REL	RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET	RANGE	RATIO
						ON-COL	FINAL			
==	=====	=====		=====	(PPBV)	(PPBV)		=====		=====
* 34	Bromochloromethane					CAS #:		74-97-5		
16.317	16.317	(1.000)		130	265484	10.0000		80.00-	120.00	100.00
16.317	16.317	(1.000)		128	206111			47.67-	107.67	77.64
16.317	16.317	(1.000)		49	490938			141.21-	201.21	184.92

* 46	1,4-Difluorobenzene					CAS #:		540-36-3		
17.782	17.782	(1.000)		114	1179071	10.0000		80.00-	120.00	100.00
17.782	17.782	(1.000)		88	148900			0.00-	42.60	12.63

* 62	Chlorobenzene-d5					CAS #:		3114-55-4		
22.123	22.123	(1.000)		117	1051558	10.0000		80.00-	120.00	100.00
22.123	22.123	(1.000)		82	467541			13.88-	73.88	44.46

\$ 41	1,2-Dichloroethane-d4					CAS #:		17060-07-0		
17.201	17.202	(1.054)		65	251105	9.86409	9.864	80.00-	120.00	100.00
17.201	17.202	(1.054)		67	142042			39.84-	99.84	56.57

\$ 53	Toluene-d8					CAS #:		2037-26-5		
19.883	19.884	(1.118)		98	1076196	9.94005	9.940	80.00-	120.00	100.00
19.883	19.884	(1.118)		70	92104			0.00-	38.58	8.56

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 53 Toluene-d8 (continued)									
19.883	19.884	(1.118)	100	741765			38.13- 98.13	68.92	

\$ 71 Bromofluorobenzene						CAS #:	460-00-4		
23.948	23.948	(1.082)	174	637482	10.0722	10.072	80.00- 120.00	100.00	
23.948	23.948	(1.082)	95	667324			73.19- 133.19	104.68	
23.948	23.948	(1.082)	176	623447			66.66- 126.66	97.80	

1 Propylene						CAS #:	115-07-1		
5.561	5.589	(0.341)	41	339923	4.86620	4.866	80.00- 120.00	100.00	
5.561	5.589	(0.341)	42	230637			37.25- 97.25	67.85	
5.561	5.589	(0.341)	39	228393			35.80- 95.80	67.19	

2 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8		
5.920	5.921	(0.363)	85	451496	5.62791	5.628	80.00- 120.00	100.00	
5.920	5.948	(0.363)	87	143387			1.94- 61.94	31.76	

3 Freon 114						CAS #:	76-14-2		
7.054	7.054	(0.432)	135	429402	5.59651	5.596	80.00- 120.00	100.00	
7.054	7.054	(0.432)	137	136462			1.56- 61.56	31.78	

4 Chloromethane						CAS #:	74-87-3		
7.303	7.303	(0.448)	50	401029	5.51475	5.515	80.00- 120.00	100.00	
7.303	7.303	(0.448)	52	125826			1.37- 61.37	31.38	

5 Vinyl Chloride						CAS #:	75-01-4		
8.077	8.077	(0.495)	62	330908	5.48614	5.486	80.00- 120.00	100.00	
8.077	8.077	(0.495)	64	94816			0.00- 59.47	28.65	

7 1,3-Butadiene						CAS #:	106-99-0		
8.298	8.298	(0.509)	54	313774	6.34152	6.342	80.00- 120.00	100.00	
8.298	8.298	(0.509)	39	321168			69.23- 129.23	102.36	

8 Bromomethane						CAS #:	74-83-9		
9.708	9.709	(0.595)	94	214639	5.58699	5.587	80.00- 120.00	100.00	
9.708	9.709	(0.595)	96	202176			63.74- 123.74	94.19	

9 Chloroethane						CAS #:	75-00-3		
10.206	10.206	(0.626)	64	140560	5.25546	5.255	80.00- 120.00	100.00	
10.206	10.206	(0.626)	66	41093			0.00- 58.86	29.24	

12 Trichlorofluoromethane/Fr11						CAS #:	75-69-4		
11.036	11.036	(0.676)	101	343968	5.12433	5.124	80.00- 120.00	100.00	
11.036	11.036	(0.676)	103	218350			34.23- 94.23	63.48	

14 Ethanol						CAS #:	64-17-5		
12.031	12.031	(0.737)	45	85421	3.58456	3.584	80.00- 120.00	100.00	

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol (continued)									
12.031	12.031	(0.737)	43	16986			0.00-	47.77	19.89
12.031	12.031	(0.737)	46	33282			10.78-	70.78	38.96

17 Freon 113						CAS #:	76-13-1		
12.556	12.556	(0.770)	151	306739	4.93858	4.938	80.00-	120.00	100.00
12.556	12.529	(0.770)	153	189520			33.53-	93.53	61.79
12.529	12.529	(0.768)	101	323790			74.46-	134.46	105.56

16 1,1-Dichloroethene						CAS #:	75-35-4		
12.529	12.529	(0.768)	98	126581	4.86500	4.865	80.00-	120.00	100.00
12.529	12.529	(0.768)	61	339464			218.76-	278.76	268.18
12.529	12.529	(0.768)	96	200998			127.21-	187.21	158.79

29 Vinyl Acetate						CAS #:	108-05-4		
15.045	15.045	(0.922)	43	56110	2.95805	2.958	80.00-	120.00	100.00(R)
15.045	15.045	(0.922)	42	4894			0.00-	36.61	8.72
15.045	15.045	(0.922)	86	4072			0.00-	36.81	7.26

18 Acetone						CAS #:	67-64-1		
12.833	12.833	(0.786)	43	437562	4.76631	4.766	80.00-	120.00	100.00
12.833	12.833	(0.786)	58	135419			1.60-	61.60	30.95

20 2-Propanol						CAS #:	67-63-0		
13.220	13.220	(0.810)	45	392675	4.16274	4.163	80.00-	120.00	100.00
13.220	13.220	(0.810)	43	70023			0.00-	45.32	17.83
13.220	13.220	(0.810)	59	11976			0.00-	33.28	3.05

19 Carbon Disulfide						CAS #:	75-15-0		
12.888	12.888	(0.790)	76	525531	5.22582	5.226	80.00-	120.00	100.00

23 Methylene Chloride						CAS #:	75-09-2		
13.718	13.718	(0.841)	84	168340	4.78679	4.787	80.00-	120.00	100.00
13.718	13.718	(0.841)	49	343612			169.05-	229.05	204.12
13.718	13.718	(0.841)	51	105484			26.82-	86.82	62.66

24 MTBE						CAS #:	1634-04-4		
14.132	14.132	(0.866)	73	431983	4.90591	4.906	80.00-	120.00	100.00
14.132	14.132	(0.866)	57	161774			6.00-	66.00	37.45
14.132	14.132	(0.866)	41	175890			5.78-	65.78	40.72

25 trans-1,2-Dichloroethene						CAS #:	156-60-5		
14.160	14.160	(0.868)	98	138594	5.90525	5.905	80.00-	120.00	100.00
14.160	14.160	(0.868)	61	337651			206.73-	266.73	243.63
14.160	14.160	(0.868)	96	215953			128.21-	188.21	155.82

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
27 Hexane						CAS #:	110-54-3		
14.575	14.547	(0.893)	57	470996	5.10886	5.109	80.00- 120.00	100.00	
14.547	14.547	(0.892)	43	348736			41.99- 101.99	74.04	
14.575	14.575	(0.893)	86	57900			0.00- 42.67	12.29	

28 1,1-Dichloroethane						CAS #:	75-34-3		
14.989	14.990	(0.919)	63	384738	4.78393	4.784	80.00- 120.00	100.00	
14.989	14.990	(0.919)	65	105261			0.00- 58.73	27.36	

32 2-Butanone						CAS #:	78-93-3		
15.957	15.957	(0.978)	72	101607	5.02262	5.023	80.00- 120.00	100.00	
15.957	15.957	(0.978)	43	1437418			640.27- 700.27	1414.68	
15.957	15.957	(0.978)	57	43633			11.54- 71.54	42.94	

31 cis-1,2-Dichloroethene						CAS #:	156-59-2		
15.930	15.930	(0.976)	98	136247	4.25027	4.250	80.00- 120.00	100.00	
15.930	15.930	(0.976)	61	384181			189.88- 249.88	281.97	
15.930	15.930	(0.976)	96	213913			129.12- 189.12	157.00	

33 Tetrahydrofuran						CAS #:	109-99-9		
16.317	16.317	(1.000)	42	399196	4.75610	4.756	80.00- 120.00	100.00	
16.317	16.317	(1.000)	71	86468			0.00- 51.72	21.66	
16.317	16.317	(1.000)	72	97990			0.00- 54.85	24.55	

35 Chloroform						CAS #:	67-66-3		
16.400	16.400	(1.005)	83	323978	4.73027	4.730	80.00- 120.00	100.00	
16.400	16.400	(1.005)	85	210690			34.23- 94.23	65.03	

37 1,1,1-Trichloroethane						CAS #:	71-55-6		
16.648	16.649	(1.020)	97	294774	4.24718	4.247	80.00- 120.00	100.00	
16.648	16.649	(1.020)	99	188409			34.18- 94.18	63.92	

36 Cyclohexane						CAS #:	110-82-7		
16.648	16.649	(1.020)	84	293258	4.95779	4.958	80.00- 120.00	100.00	
16.648	16.649	(1.020)	56	502399			129.56- 189.56	171.32	
16.648	16.649	(1.020)	41	288765			56.71- 116.71	98.47	

39 Carbon Tetrachloride						CAS #:	56-23-5		
16.870	16.870	(1.034)	119	316364	4.68900	4.689	80.00- 120.00	100.00	
16.870	16.870	(1.034)	117	313268			69.21- 129.21	99.02	

42 Benzene						CAS #:	71-43-2		
17.201	17.202	(0.967)	78	599057	4.11013	4.110	80.00- 120.00	100.00	
17.201	17.202	(0.967)	77	135171			0.00- 51.60	22.56	

43 1,2-Dichloroethane						CAS #:	107-06-2		
17.312	17.312	(0.974)	62	210549	4.40721	4.407	80.00- 120.00	100.00	

					CONCENTRATIONS				
					ON-COL	FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====		=====
43 1,2-Dichloroethane (continued)									
17.312	17.312	(0.974)	64	63861			0.00-	59.97	30.33
44 Heptane						CAS #:	142-82-5		
17.423	17.423	(0.980)	43	645679	5.09777	5.098	80.00-	120.00	100.00
17.423	17.423	(0.980)	57	290661			15.52-	75.52	45.02
17.450	17.450	(0.981)	100	78220			0.00-	42.74	12.11
47 Trichloroethene						CAS #:	79-01-6		
18.142	18.142	(1.020)	130	350705	4.29779	4.298	80.00-	120.00	100.00
18.142	18.142	(1.020)	95	281447			47.95-	107.95	80.25
18.142	18.142	(1.020)	97	179049			20.27-	80.27	51.05
48 1,2-Dichloropropane						CAS #:	78-87-5		
18.529	18.529	(1.042)	63	238549	4.10182	4.102	80.00-	120.00	100.00
18.529	18.529	(1.042)	62	174946			44.47-	104.47	73.34
18.529	18.529	(1.042)	41	172084			34.35-	94.35	72.14
49 1,4-Dioxane						CAS #:	123-91-1		
18.639	18.639	(1.048)	88	164494	5.89429	5.894	80.00-	120.00	100.00
18.639	18.639	(1.048)	58	152628			62.97-	122.97	92.79
18.639	18.639	(1.048)	57	45572			0.00-	56.51	27.70
50 Bromodichloromethane						CAS #:	75-27-4		
18.888	18.888	(1.062)	83	338013	4.84348	4.843	80.00-	120.00	100.00
18.888	18.888	(1.062)	85	216076			33.40-	93.40	63.93
51 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
19.552	19.552	(1.099)	75	283987	4.57410	4.574	80.00-	120.00	100.00
19.552	19.552	(1.099)	77	88039			1.39-	61.39	31.00
19.524	19.524	(1.098)	39	215862			45.80-	105.80	76.01
52 4-Methyl-2-pentanone						CAS #:	108-10-1		
19.690	19.690	(1.107)	43	746043	4.59753	4.598	80.00-	120.00	100.00
19.718	19.690	(1.109)	58	253209			4.50-	64.50	33.94
19.718	19.718	(1.109)	85	72472			0.00-	40.30	9.71
54 Toluene						CAS #:	108-88-3		
19.994	19.994	(1.124)	91	823753	4.56963	4.570	80.00-	120.00	100.00
19.994	19.994	(1.124)	92	499891			29.68-	89.68	60.68
55 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
20.353	20.354	(0.920)	75	230629	5.15432	5.154	80.00-	120.00	100.00
20.353	20.354	(0.920)	77	74142			1.66-	61.66	32.15
20.353	20.354	(0.920)	39	178512			47.67-	107.67	77.40

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
56 1,1,2-Trichloroethane						CAS #:	79-00-5		
20.658	20.658	(0.934)	97	266649	4.70156	4.702	80.00- 120.00	100.00	
20.658	20.658	(0.934)	99	165568			32.91- 92.91	62.09	
20.630	20.630	(0.932)	83	206401			48.34- 108.34	77.41	

57 Tetrachloroethene						CAS #:	127-18-4		
20.796	20.796	(0.940)	166	435819	4.70577	4.706	80.00- 120.00	100.00	
20.796	20.796	(0.940)	129	299527			39.13- 99.13	68.73	
20.796	20.796	(0.940)	131	300771			38.26- 98.26	69.01	

58 2-Hexanone						CAS #:	591-78-6		
20.934	20.934	(0.946)	58	333296	4.48830	4.488	80.00- 120.00	100.00	
20.934	20.934	(0.946)	43	676208			174.93- 234.93	202.89	
20.934	20.934	(0.946)	100	54073			0.00- 46.47	16.22	

59 Dibromochloromethane						CAS #:	124-48-1		
21.238	21.238	(0.960)	129	432359	5.40875	5.409	80.00- 120.00	100.00	
21.238	21.238	(0.960)	208	23528			0.00- 35.53	5.44	

61 1,2-Dibromoethane						CAS #:	106-93-4		
21.459	21.460	(0.970)	107	389821	4.67399	4.674	80.00- 120.00	100.00	
21.459	21.460	(0.970)	109	371440			64.70- 124.70	95.28	

63 Chlorobenzene						CAS #:	108-90-7		
22.151	22.151	(1.001)	112	740841	4.76101	4.761	80.00- 120.00	100.00	
22.151	22.151	(1.001)	114	240145			1.69- 61.69	32.42	
22.151	22.151	(1.001)	77	341100			15.17- 75.17	46.04	

64 Ethyl Benzene						CAS #:	100-41-4		
22.234	22.234	(1.005)	106	399381	4.83309	4.833	80.00- 120.00	100.00	
22.234	22.234	(1.005)	91	1081307			252.96- 312.96	270.75	

65 m,p-Xylene						CAS #:	108-38-3		
22.427	22.427	(1.014)	106	973862	8.77122	8.771	80.00- 120.00	100.00	
22.427	22.427	(1.014)	91	1634351			116.47- 176.47	167.82	

66 o-Xylene						CAS #:	95-47-6		
23.063	23.063	(1.042)	106	474975	4.92218	4.922	80.00- 120.00	100.00	
23.063	23.063	(1.042)	91	832861			145.90- 205.90	175.35	

67 Styrene						CAS #:	100-42-5		
23.091	23.091	(1.044)	104	683567	6.48688	6.487	80.00- 120.00	100.00	
23.091	23.091	(1.044)	78	250157			8.13- 68.13	36.60	

68 Bromoform						CAS #:	75-25-2		
23.450	23.450	(1.060)	173	420674	6.19879	6.199	80.00- 120.00	100.00	

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
68 Bromoform (continued)									
23.450	23.450	(1.060)	171	213158			21.14-	81.14	50.67
70 Cumene						CAS #:	98-82-8		
23.588	23.589	(1.066)	105	1050475	4.55064	4.551	80.00-	120.00	100.00
23.616	23.616	(1.067)	120	336358			2.18-	62.18	32.02
72 1,1,2,2-Tetrachloroethane						CAS #:	79-34-5		
24.141	24.142	(1.091)	83	504427	5.07277	5.073	80.00-	120.00	100.00
24.141	24.142	(1.091)	85	317235			34.66-	94.66	62.89
73 Propylbenzene						CAS #:	103-65-1		
24.252	24.252	(1.096)	91	1221106	6.63740	6.637	80.00-	120.00	100.00
24.252	24.252	(1.096)	120	356275			0.00-	58.33	29.18
74 4-Ethyltoluene						CAS #:	622-96-8		
24.446	24.446	(1.105)	105	1072170	4.77810	4.778	80.00-	120.00	100.00
24.446	24.446	(1.105)	120	390859			5.81-	65.81	36.45
75 1,3,5-Trimethylbenzene						CAS #:	108-67-8		
24.556	24.556	(1.110)	105	1027131	5.07977	5.080	80.00-	120.00	100.00
24.556	24.556	(1.110)	120	623414			30.56-	90.56	60.69
78 1,2,4-Trimethylbenzene						CAS #:	95-63-6		
25.192	25.192	(1.139)	105	1018584	5.40792	5.408	80.00-	120.00	100.00
25.192	25.192	(1.139)	120	574818			27.10-	87.10	56.43
81 1,3-Dichlorobenzene						CAS #:	541-73-1		
25.773	25.773	(1.165)	146	838689	4.86032	4.860	80.00-	120.00	100.00
25.773	25.773	(1.165)	148	532947			33.01-	93.01	63.55
25.745	25.745	(1.164)	111	277336			1.87-	61.87	33.07
82 1,4-Dichlorobenzene						CAS #:	106-46-7		
25.911	25.911	(1.171)	146	831752	4.89196	4.892	80.00-	120.00	100.00
25.911	25.911	(1.171)	148	525826			33.01-	93.01	63.22
25.911	25.911	(1.171)	111	266767			0.90-	60.90	32.07
83 alpha-chlorotoluene						CAS #:	100-44-7		
26.132	26.132	(1.181)	91	496105	5.03808	5.038	80.00-	120.00	100.00
26.132	26.132	(1.181)	126	131094			0.00-	57.00	26.42
85 1,2-Dichlorobenzene						CAS #:	95-50-1		
26.602	26.602	(1.202)	146	790511	5.21043	5.210	80.00-	120.00	100.00
26.602	26.602	(1.202)	148	499465			33.29-	93.29	63.18
26.575	26.602	(1.201)	111	272751			4.44-	64.44	34.50

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
87	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
29.450	29.450	(1.331)	180	477347	8.82953	8.830	80.00-	120.00	100.00
29.450	29.450	(1.331)	182	447720			64.85-	124.85	93.79

88	Hexachlorobutadiene					CAS #: 87-68-3			
29.644	29.644	(1.340)	225	335838	8.92834	8.928	80.00-	120.00	100.00(R)
29.644	29.644	(1.340)	223	212660			33.01-	93.01	63.32

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7050505r1.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: BD

Calibration Date: 05-MAY-2005
Calibration Time: 13:08
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

Method File: /chem/msd7.i/7-05may.b/t14l501a.m
Misc Info: 50mL [5.0ppbv]

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	273711	164227	383195	265484	-3.01
46 1,4-Difluorobenze	1190742	714445	1667039	1179071	-0.98
62 Chlorobenzene-d5	1102533	661520	1543546	1051558	-4.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
34 Bromochloromethan	16.32	15.99	16.65	16.32	0.00
46 1,4-Difluorobenze	17.78	17.45	18.11	17.78	0.00
62 Chlorobenzene-d5	22.12	21.79	22.45	22.12	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

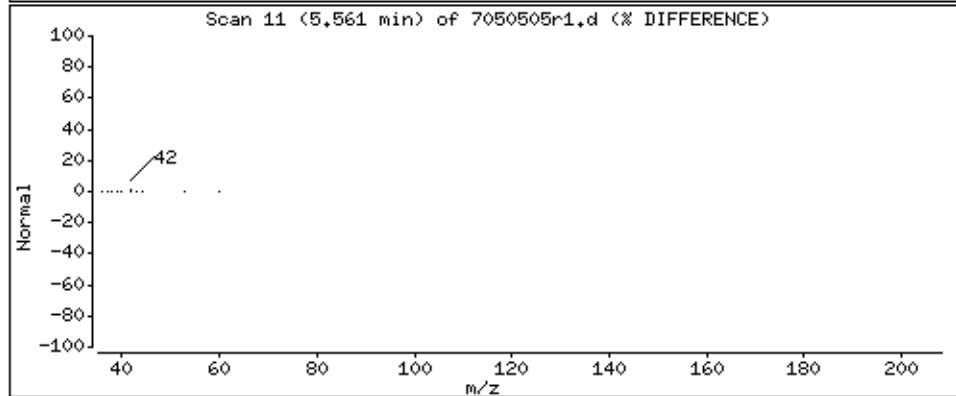
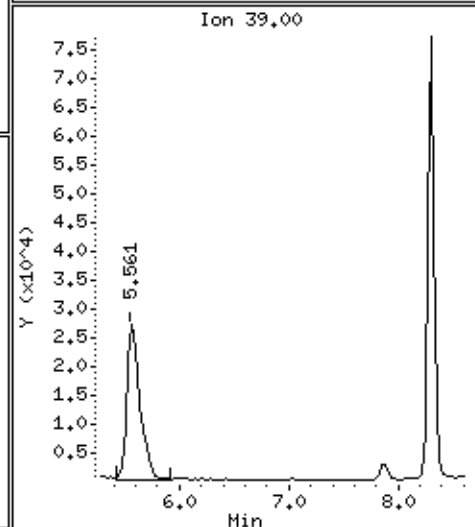
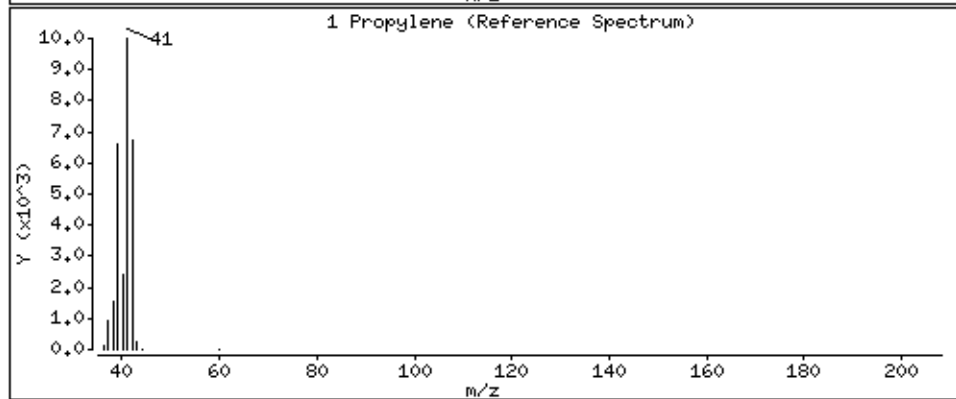
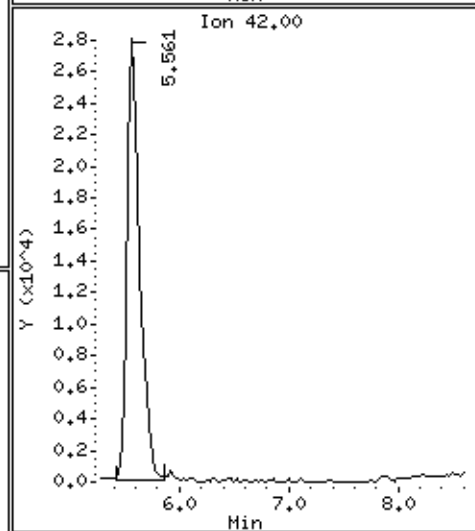
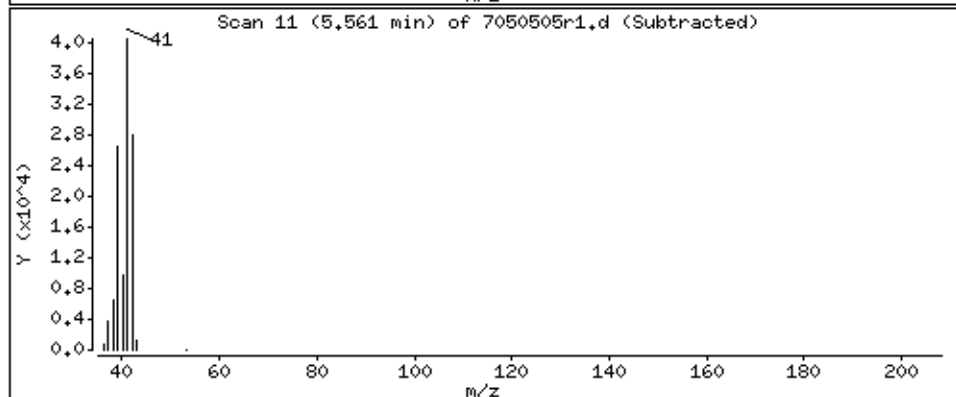
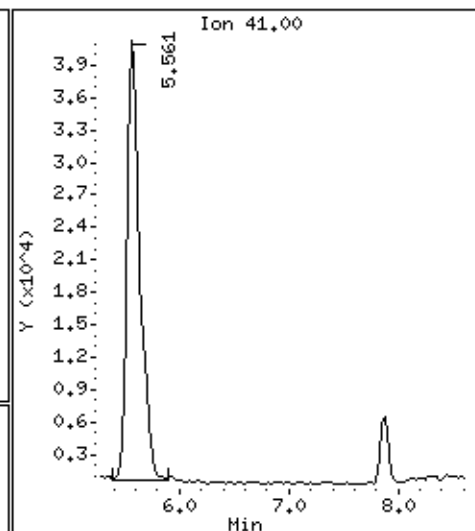
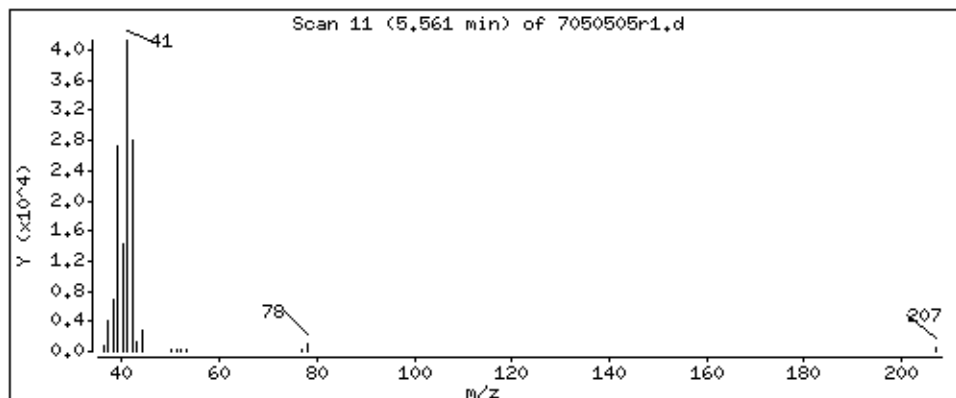
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

1 Propylene

Concentration: 4.866 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

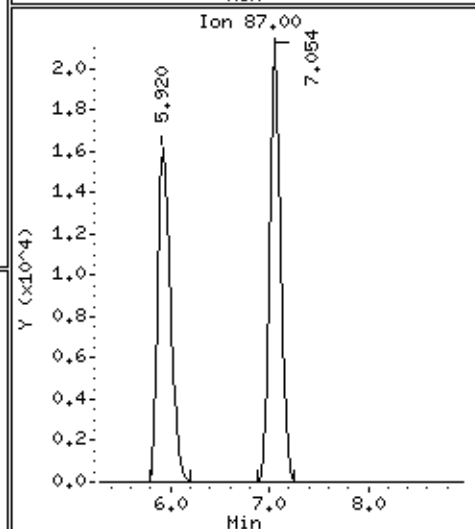
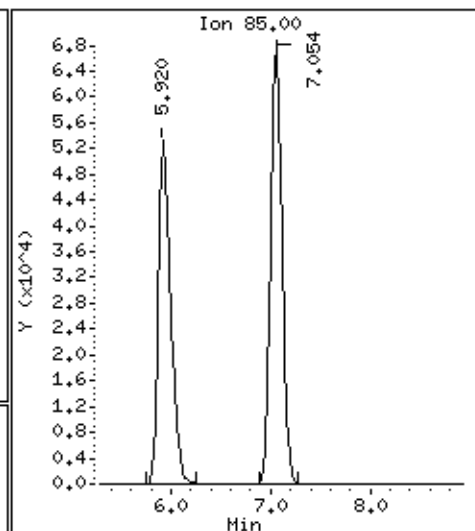
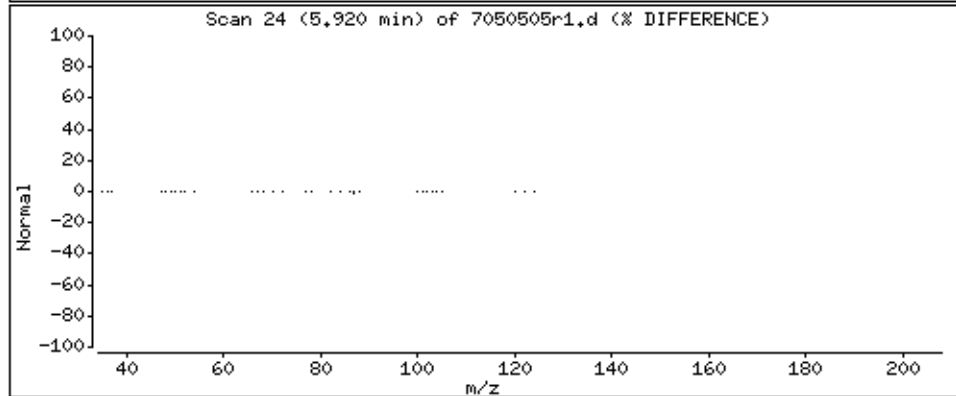
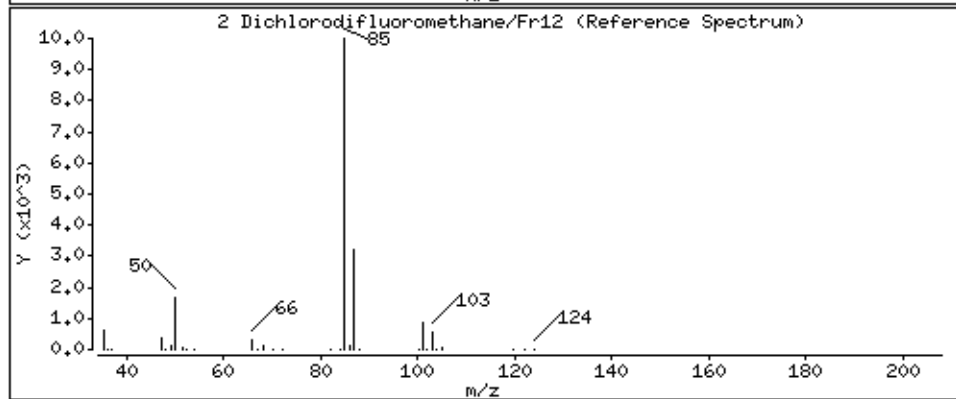
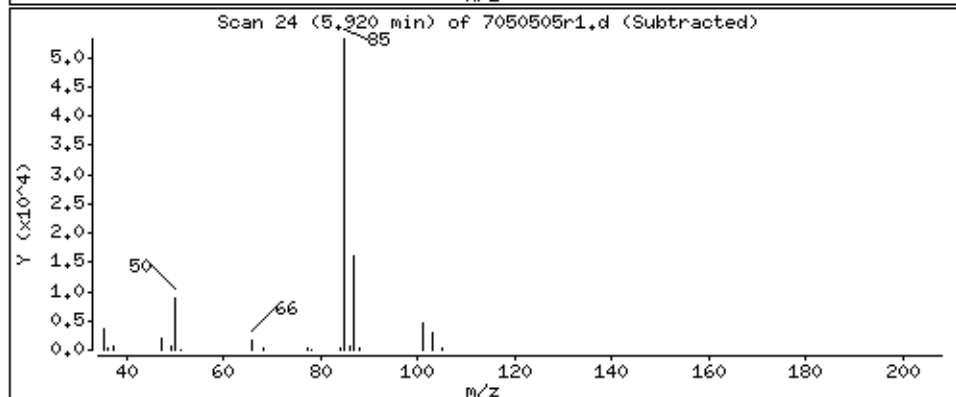
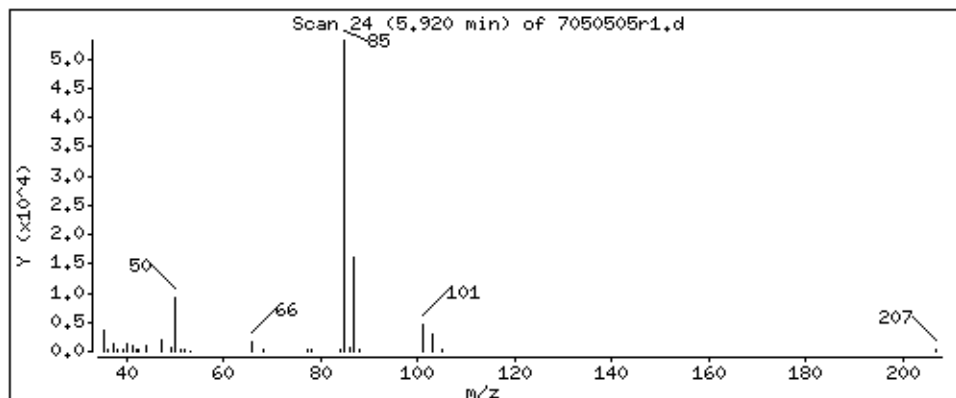
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

2 Dichlorodifluoromethane/Fr12

Concentration: 5.628 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

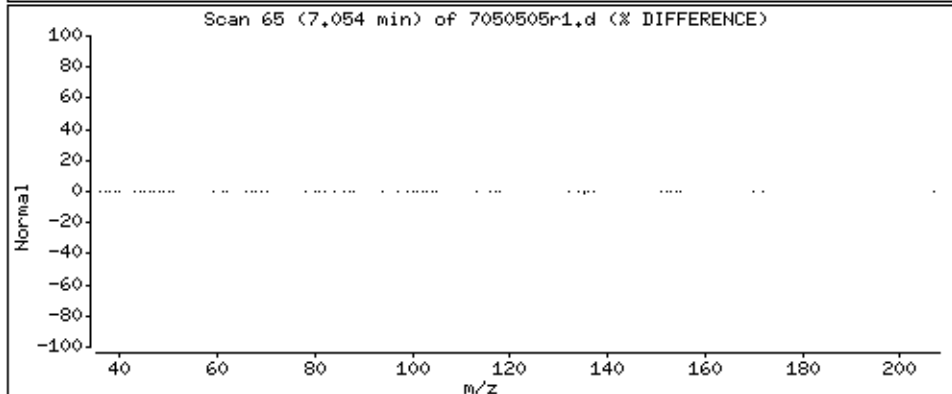
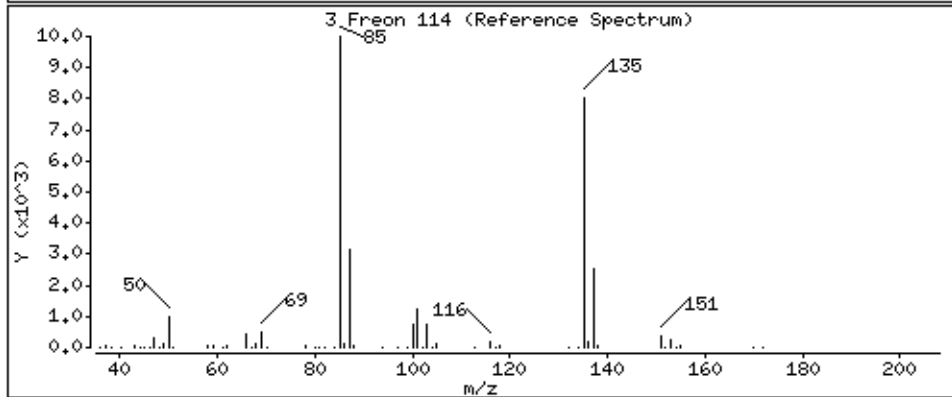
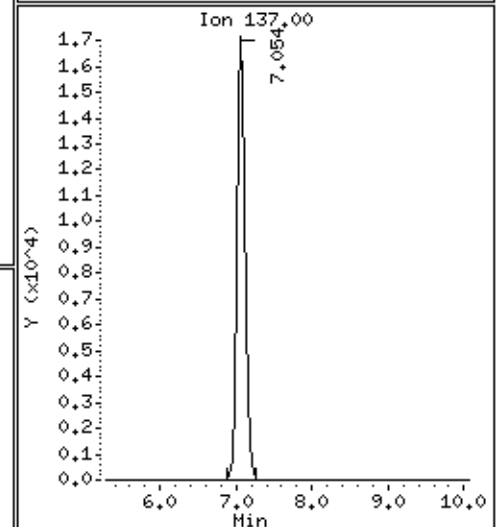
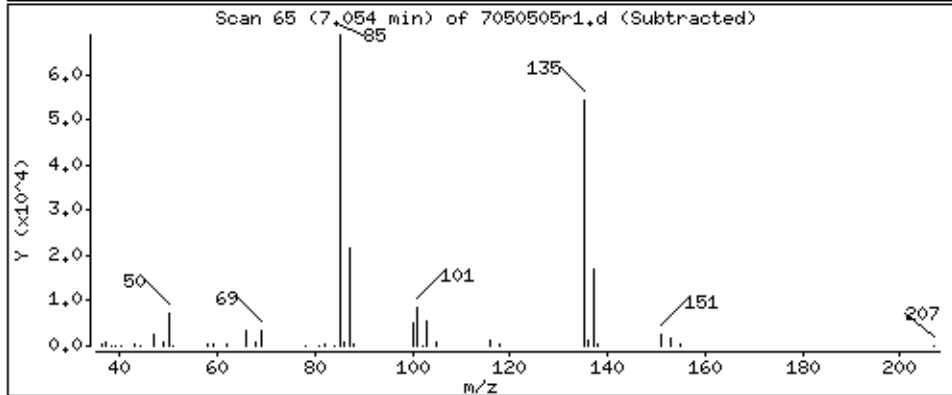
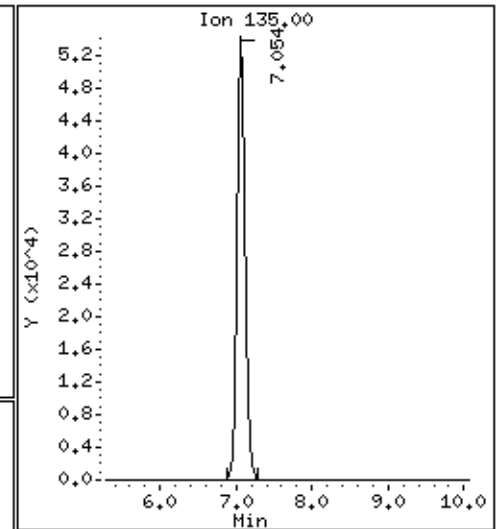
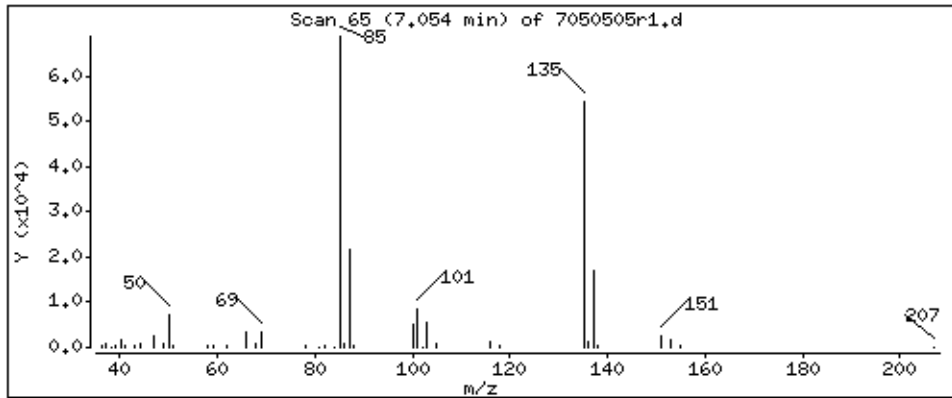
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

3 Freon 114

Concentration: 5.596 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

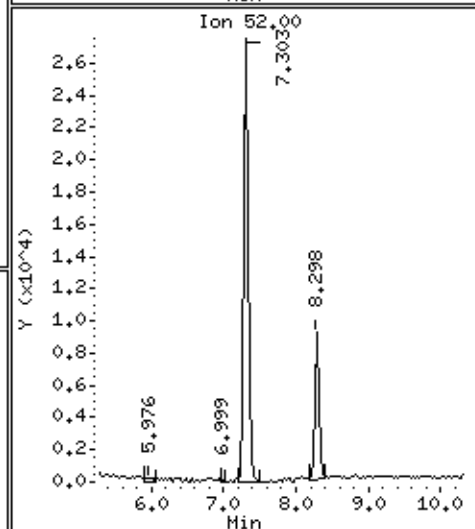
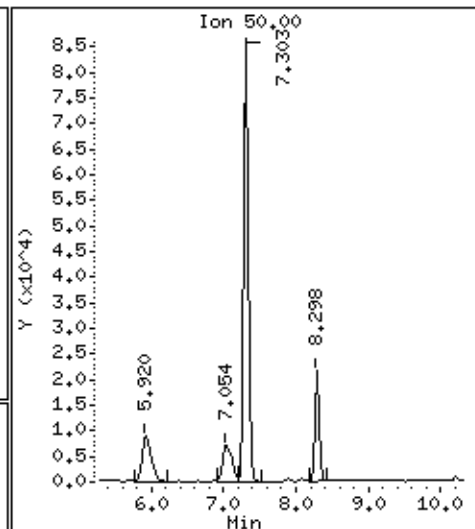
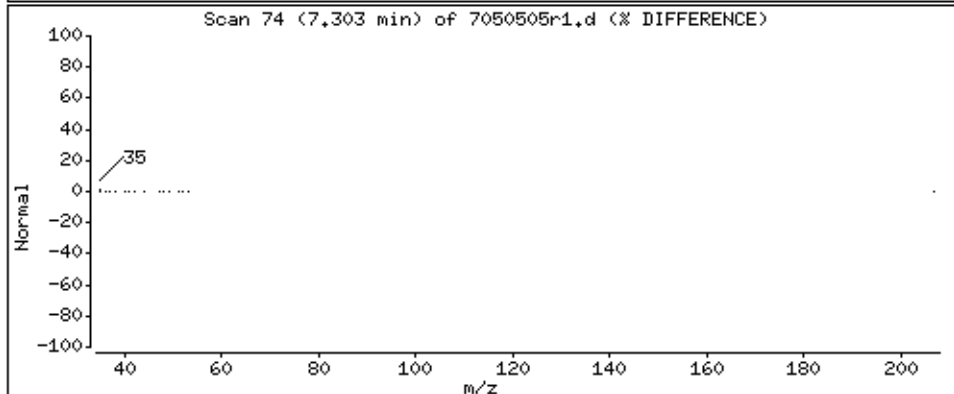
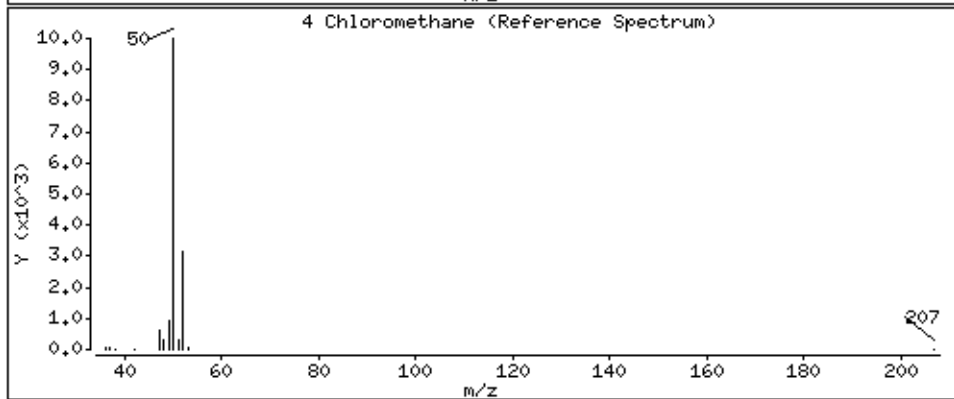
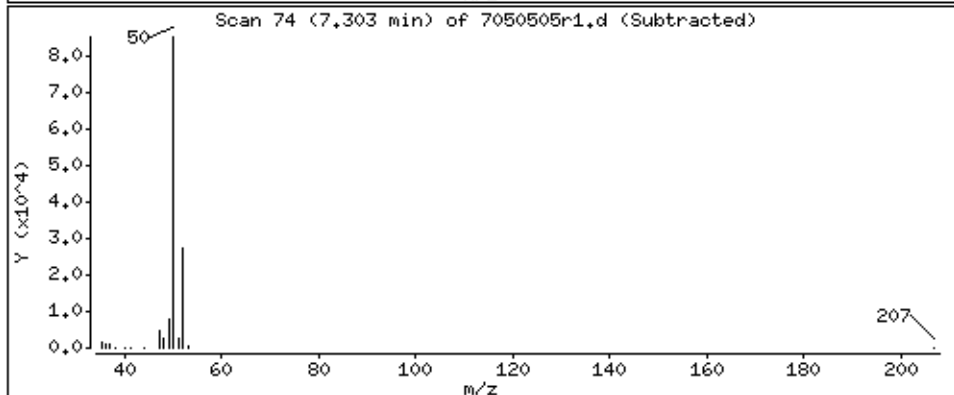
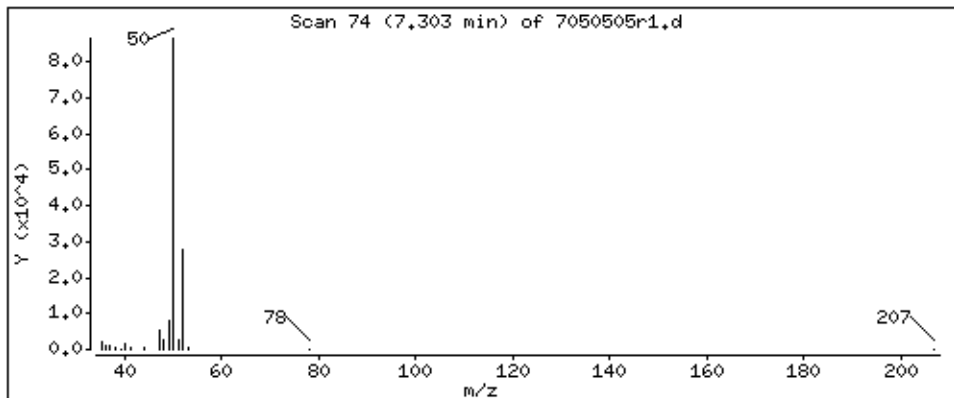
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

4 Chloromethane

Concentration: 5.515 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

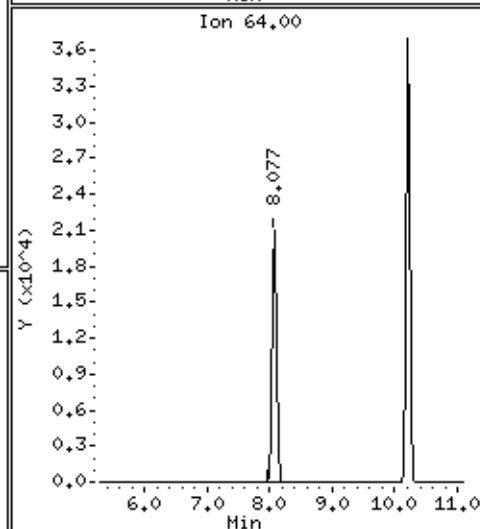
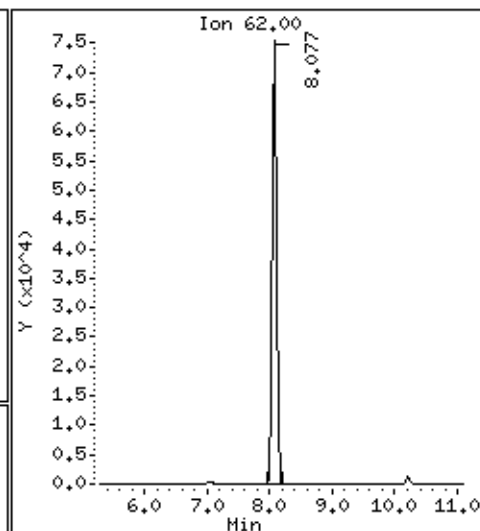
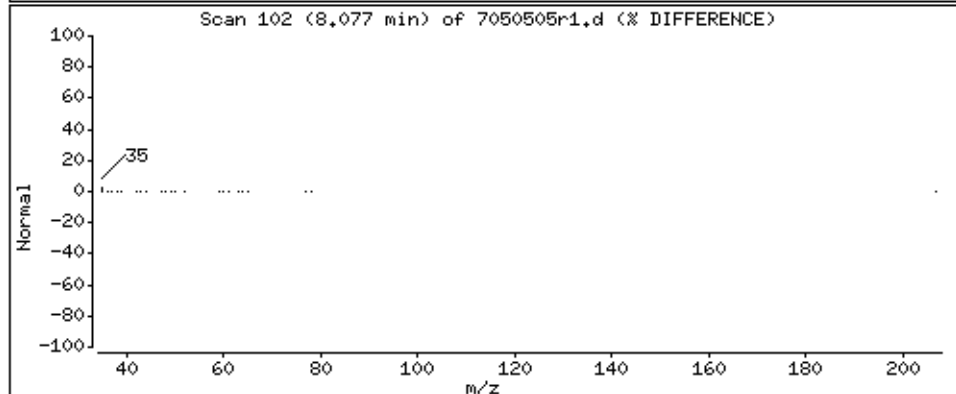
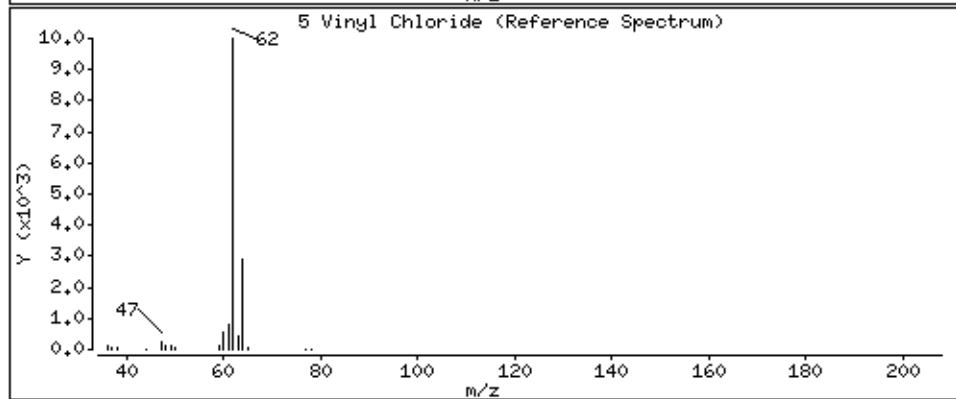
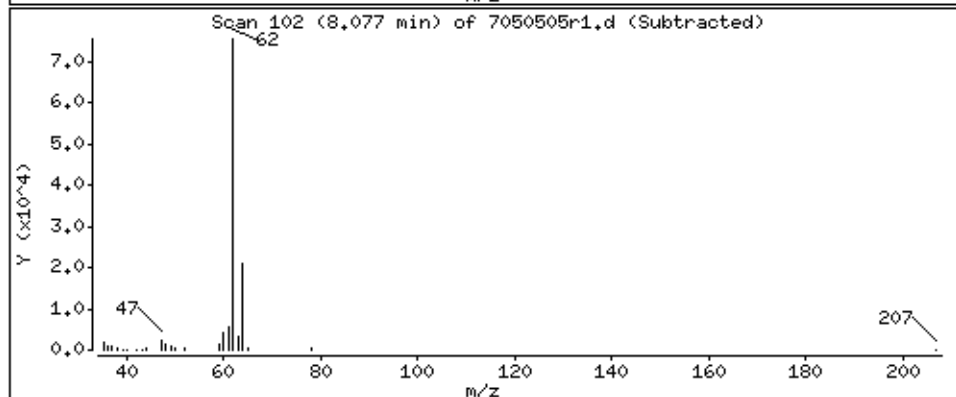
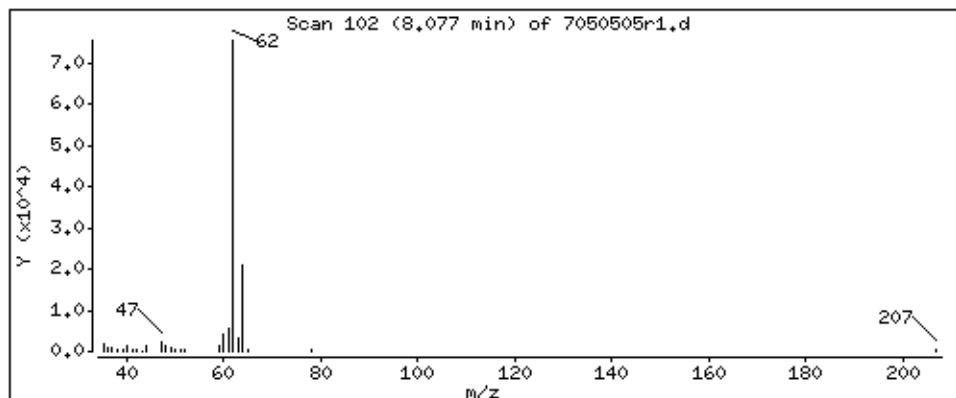
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

5 Vinyl Chloride

Concentration: 5.486 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

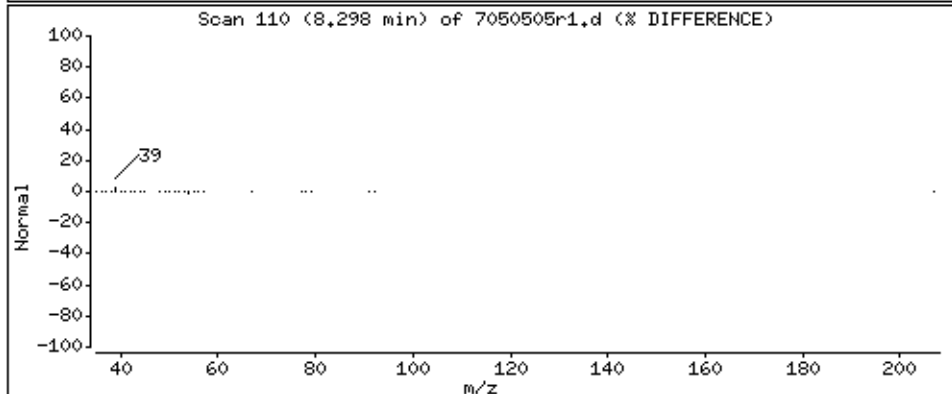
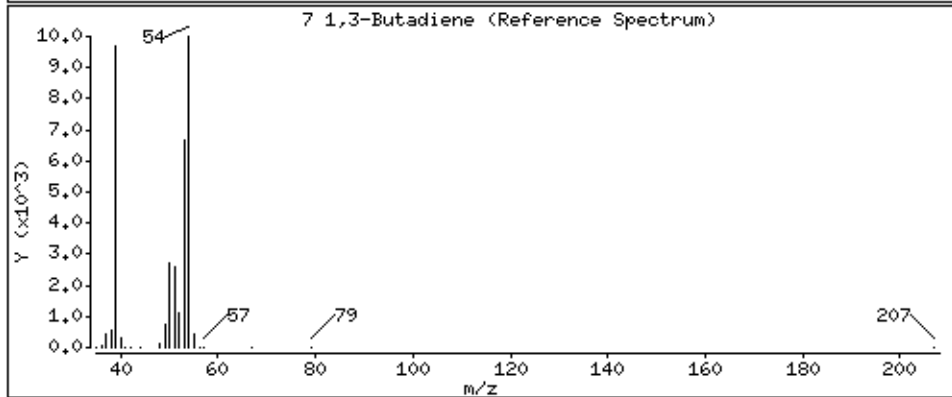
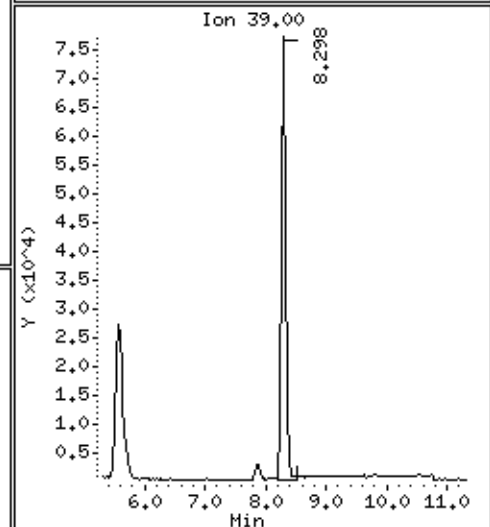
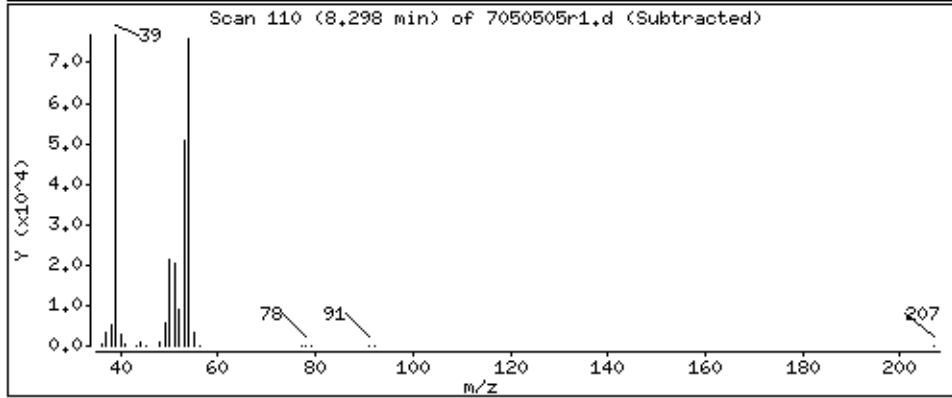
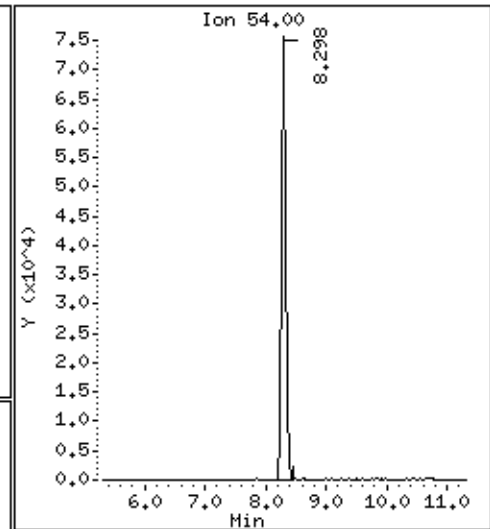
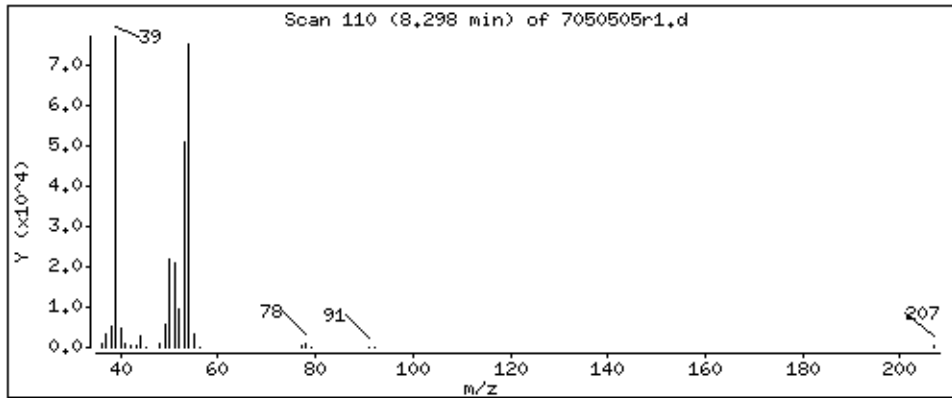
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

7 1,3-Butadiene

Concentration: 6.342 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

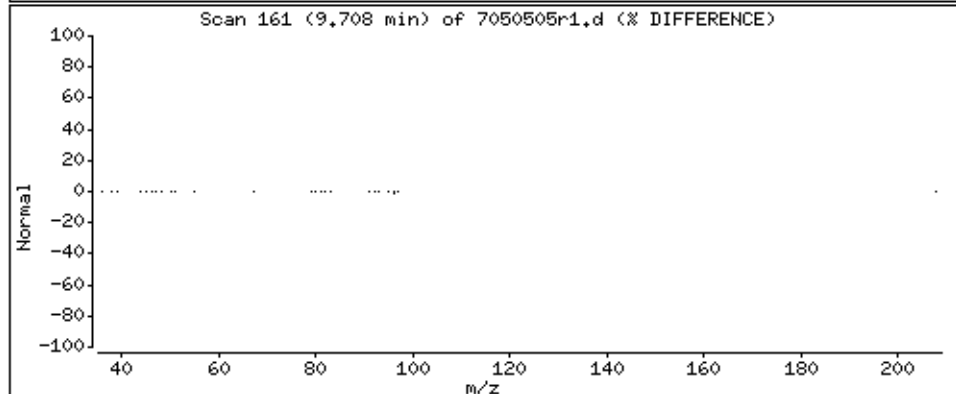
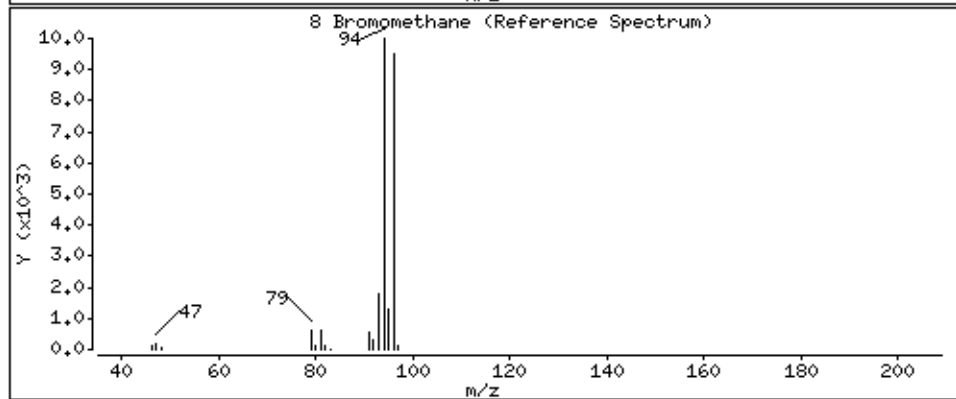
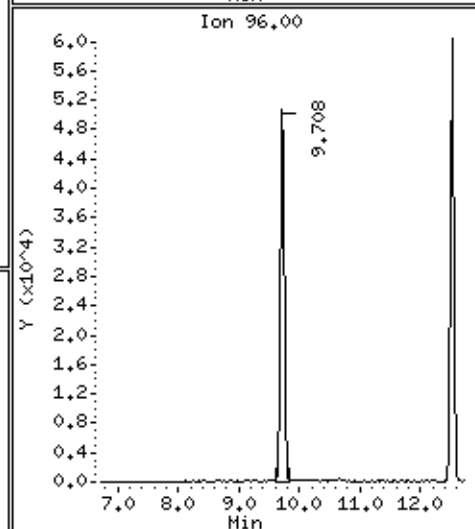
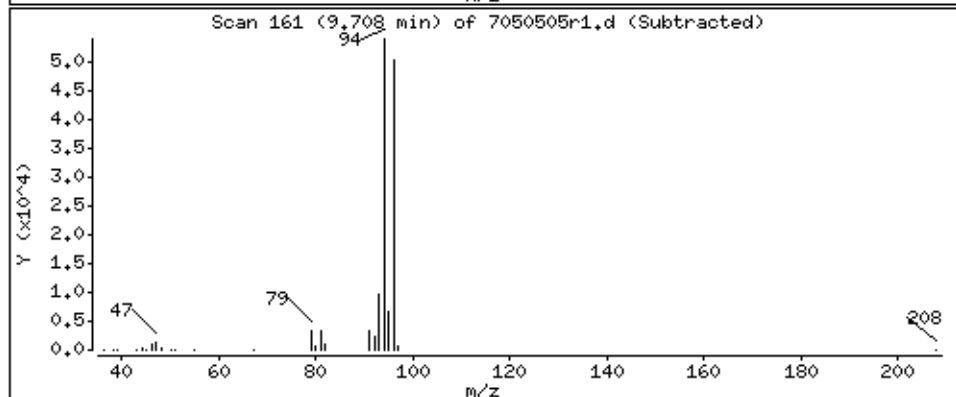
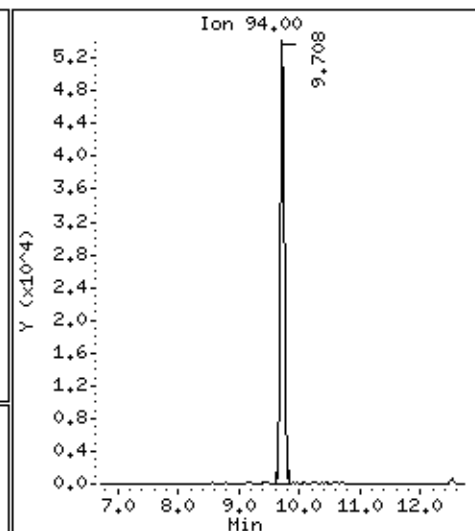
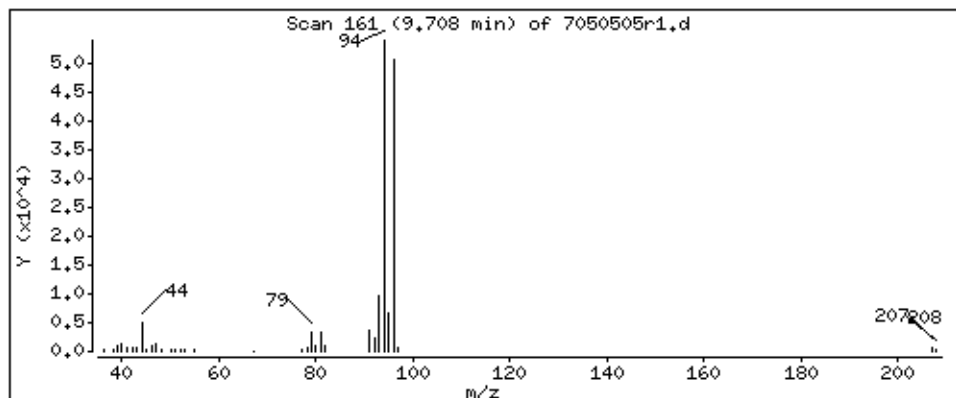
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

8 Bromomethane

Concentration: 5.587 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

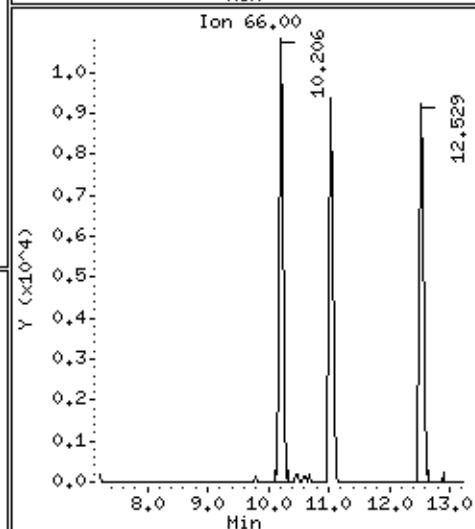
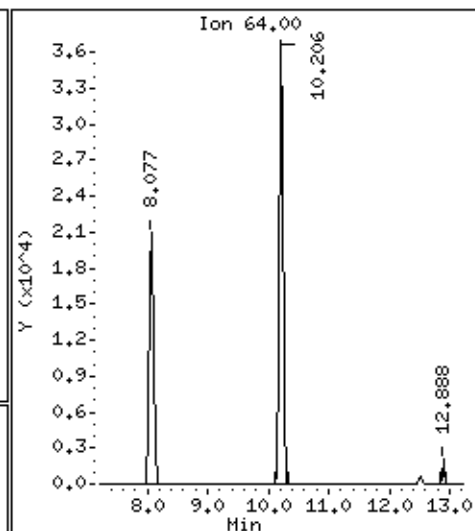
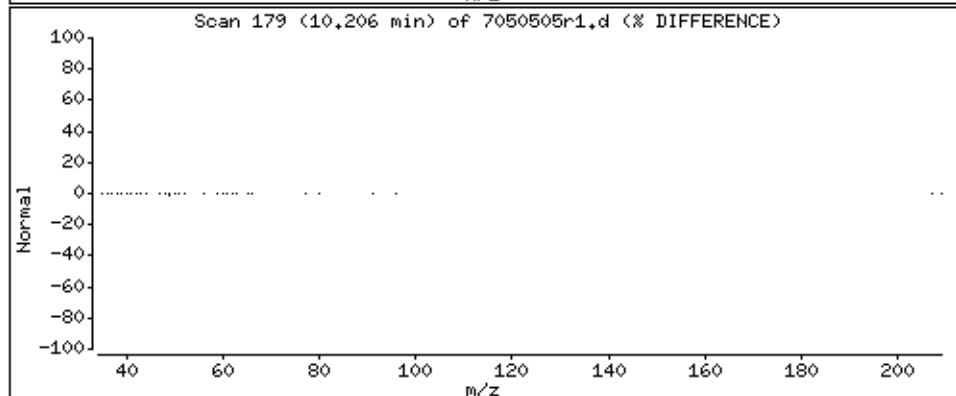
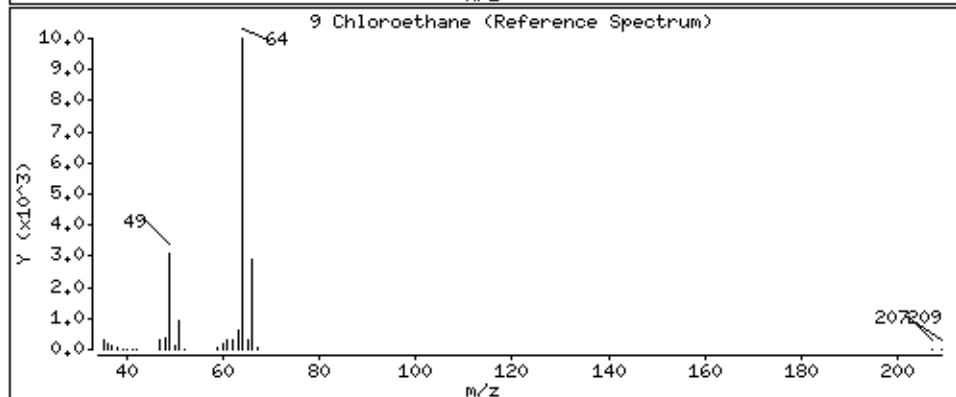
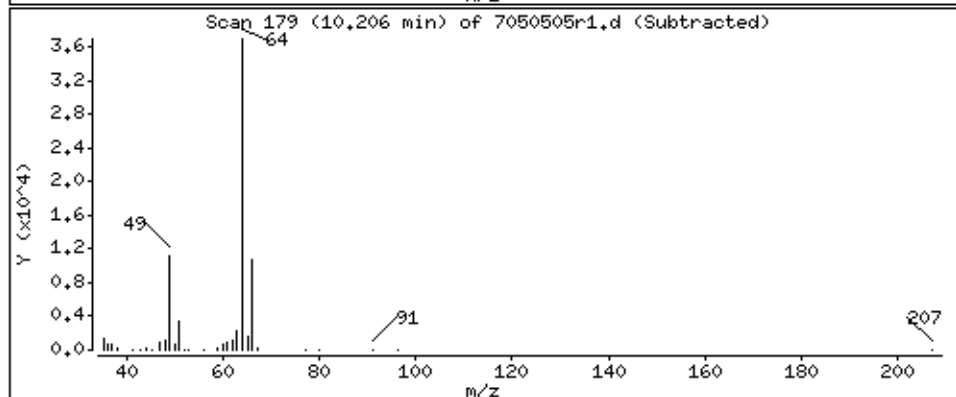
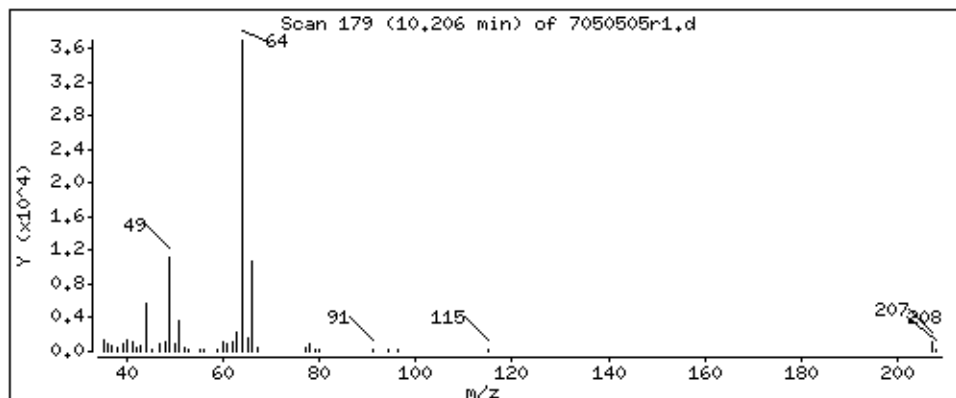
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

9 Chloroethane

Concentration: 5.255 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

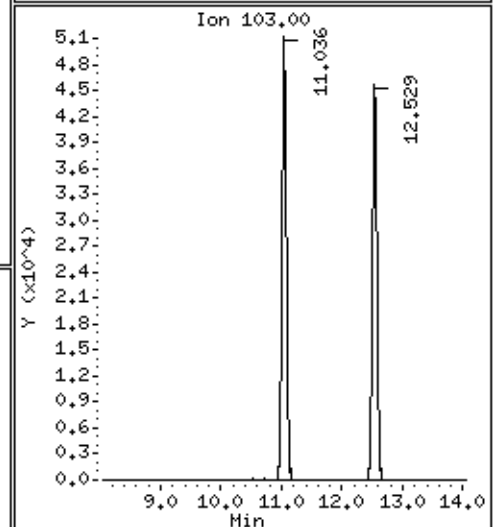
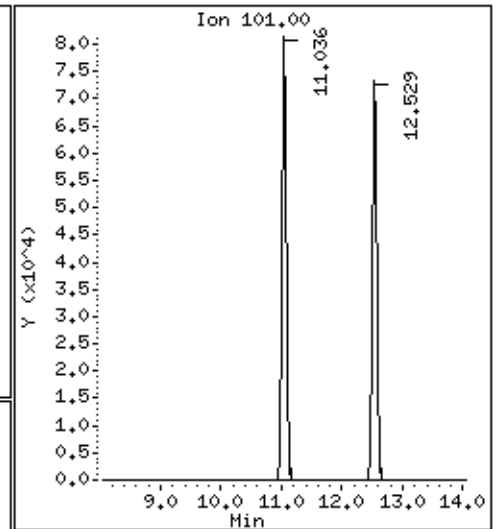
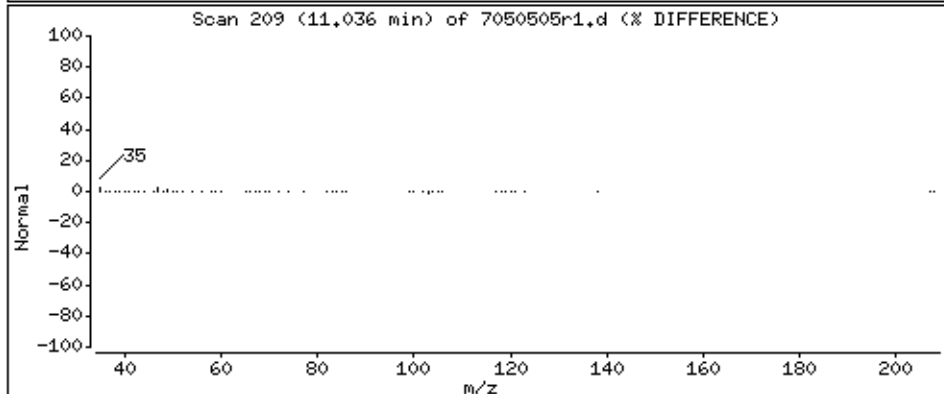
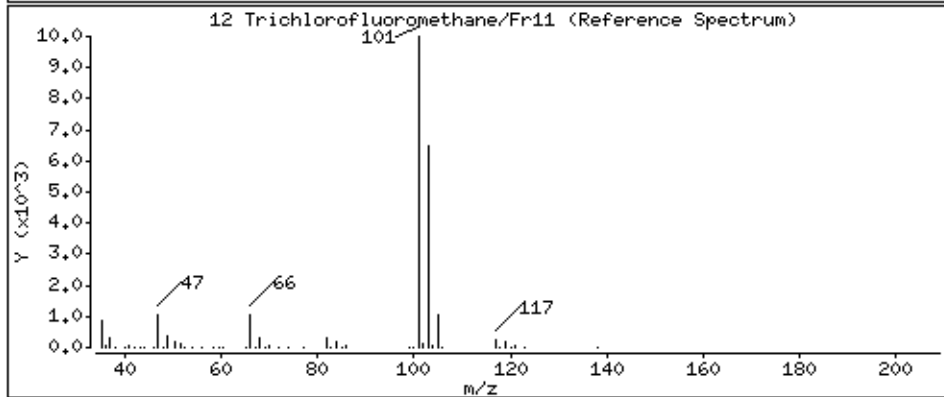
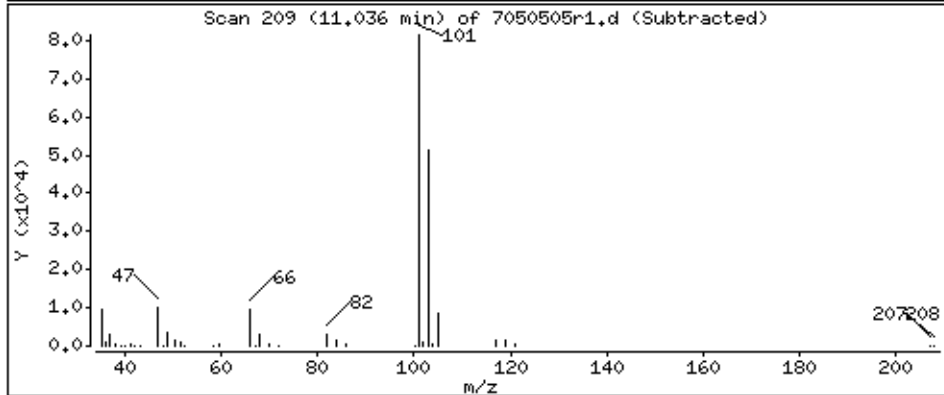
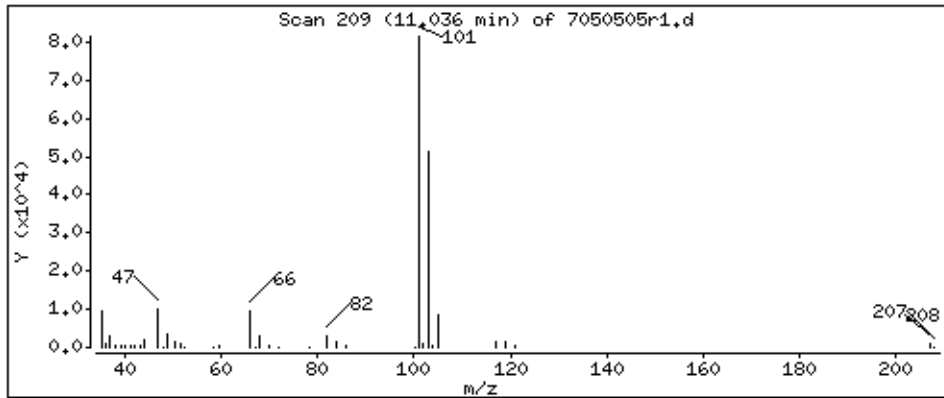
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

12 Trichlorofluoromethane/Fr11

Concentration: 5.124 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

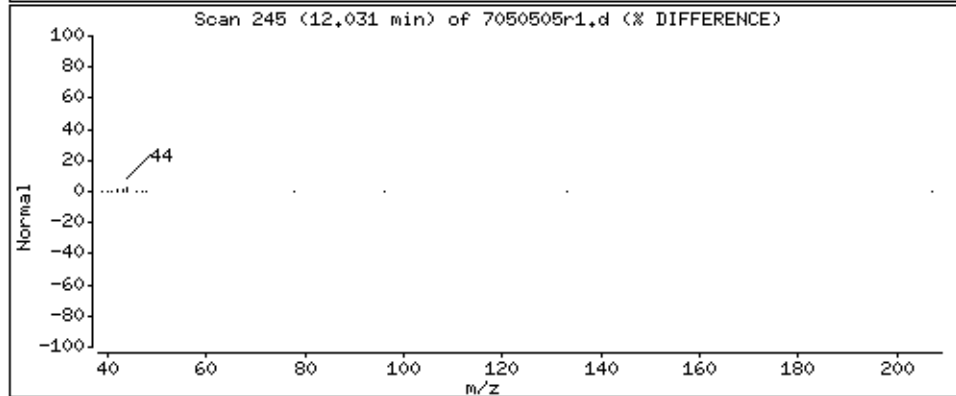
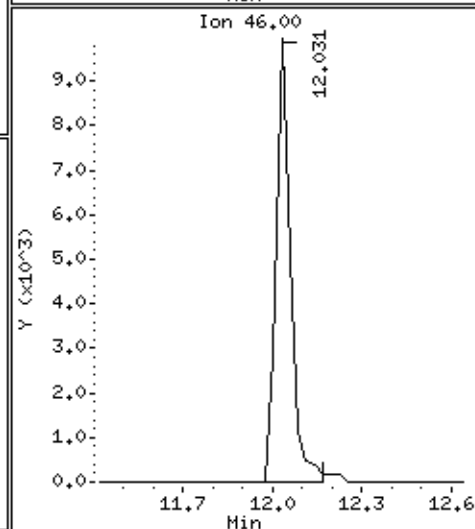
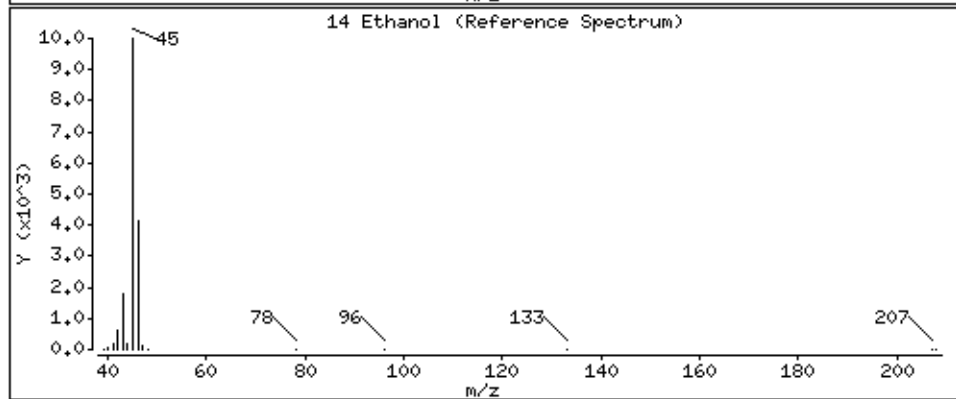
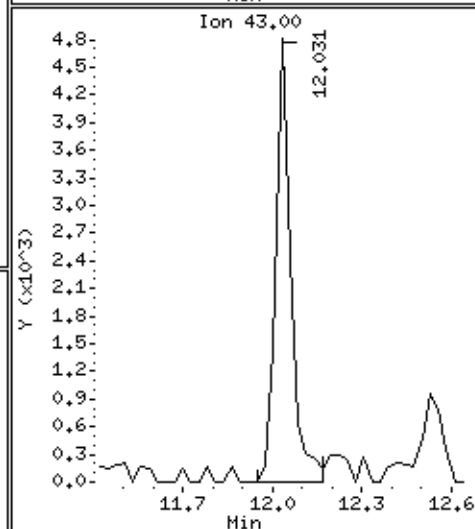
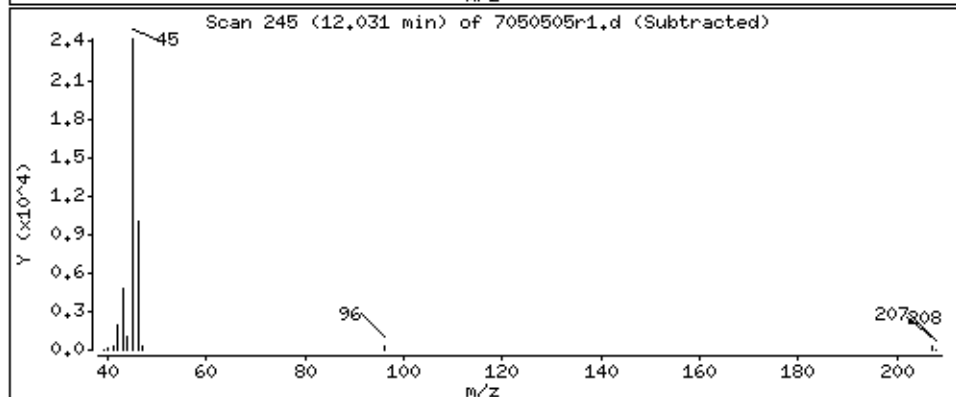
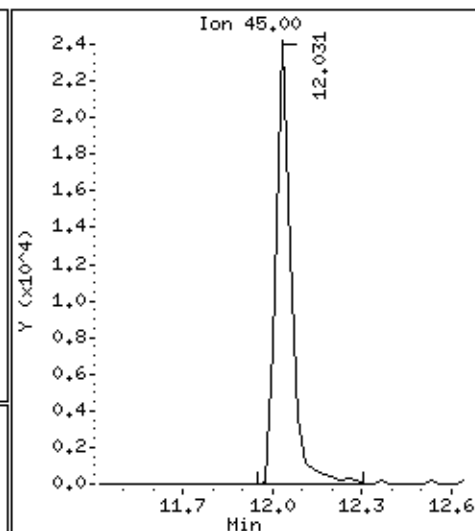
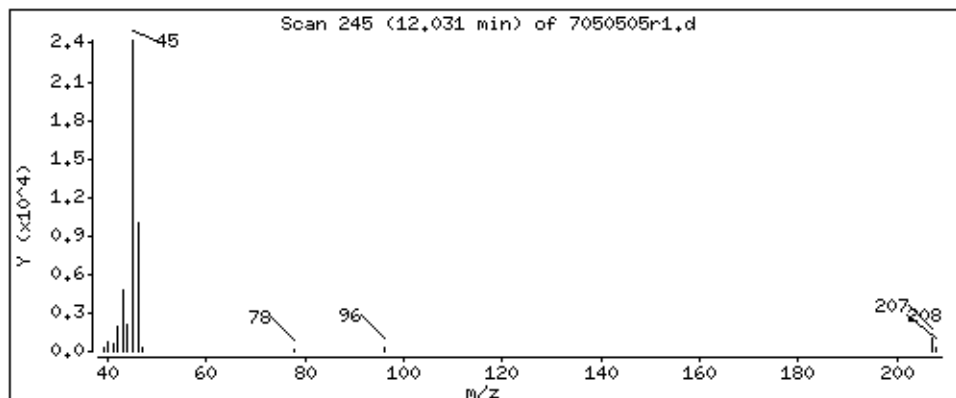
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

14 Ethanol

Concentration: 3.584 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

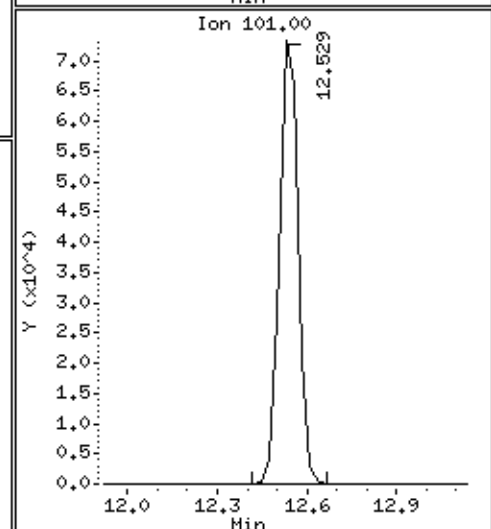
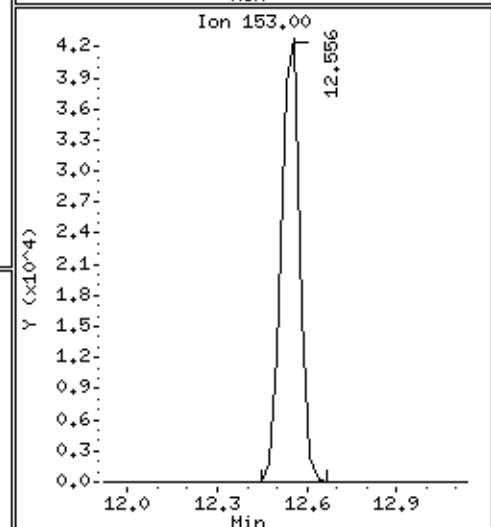
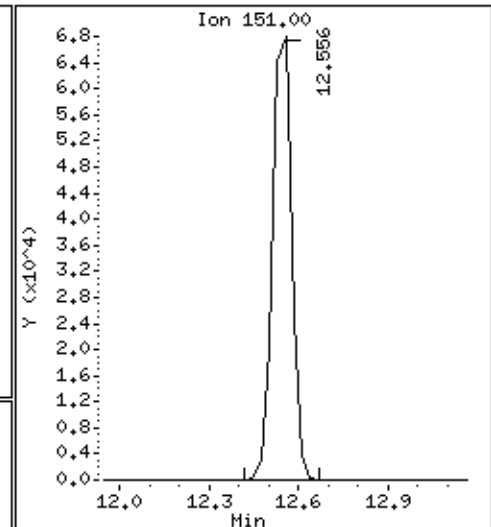
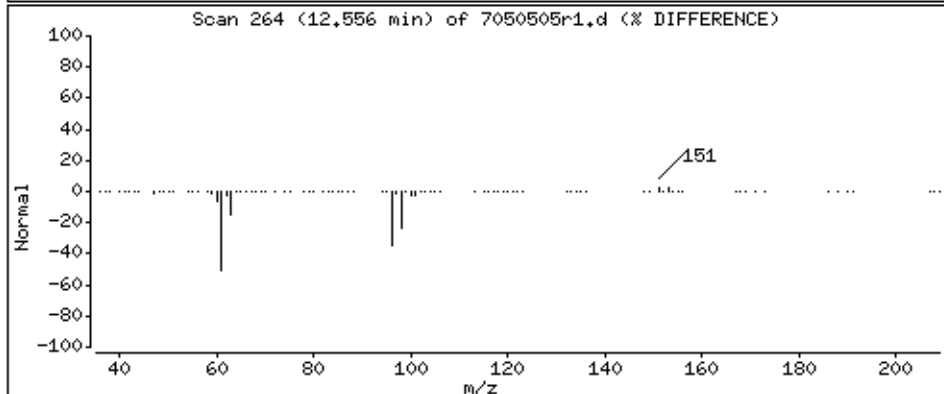
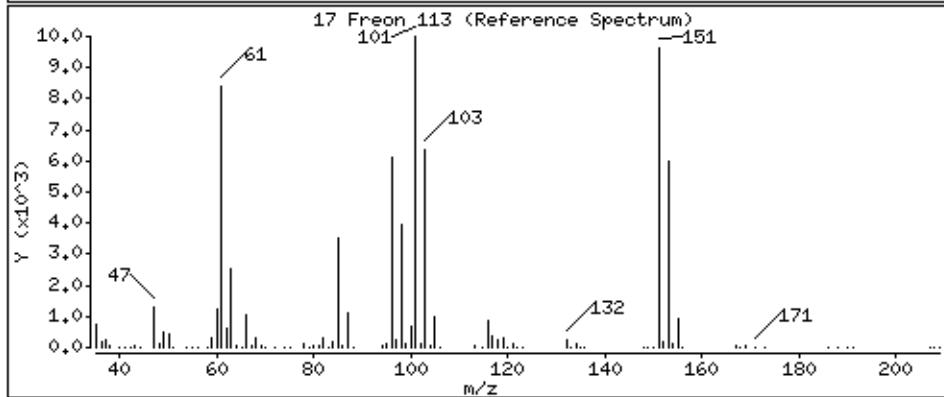
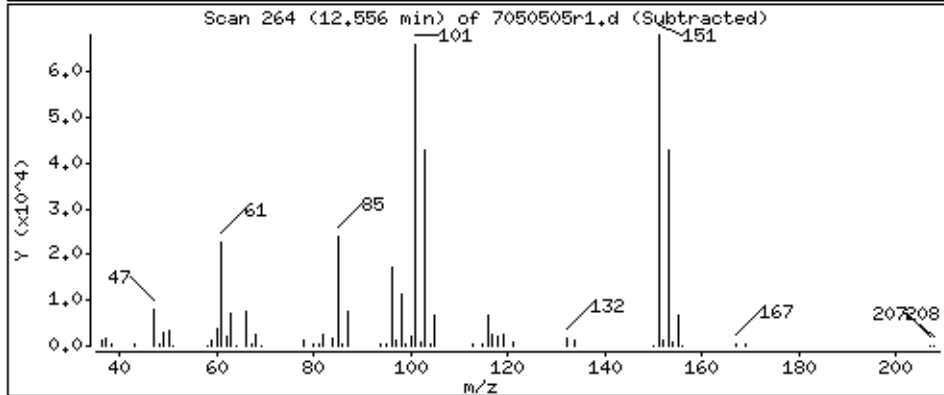
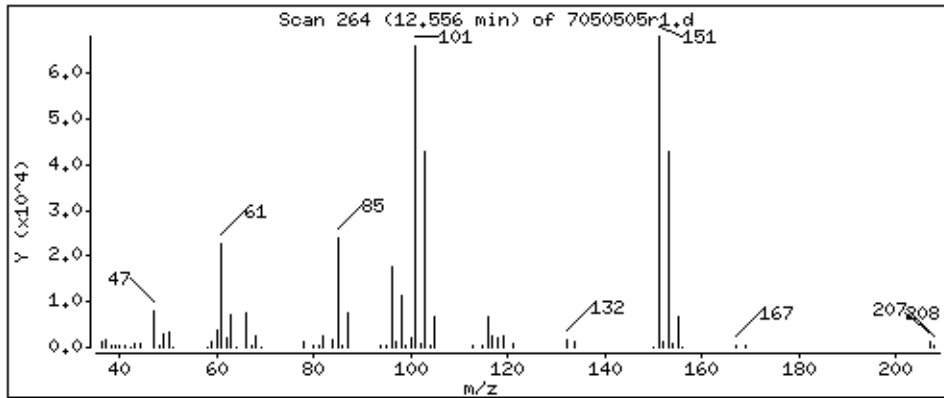
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

17 Freon 113

Concentration: 4.938 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

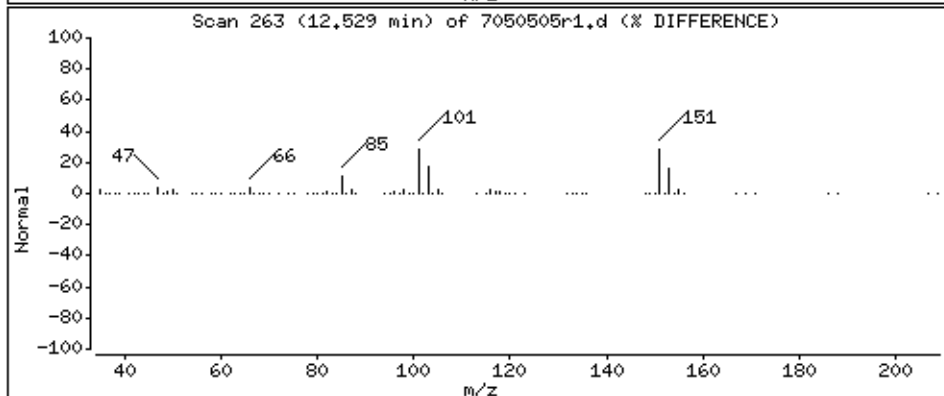
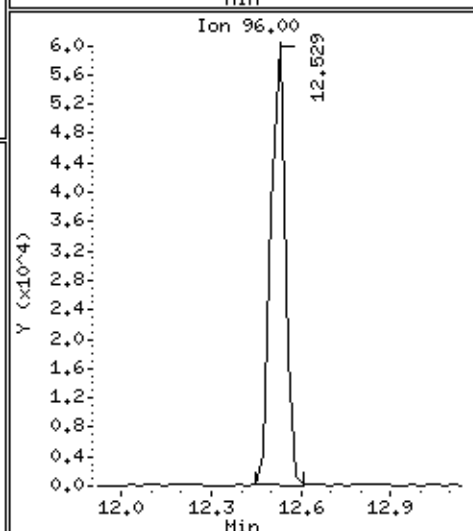
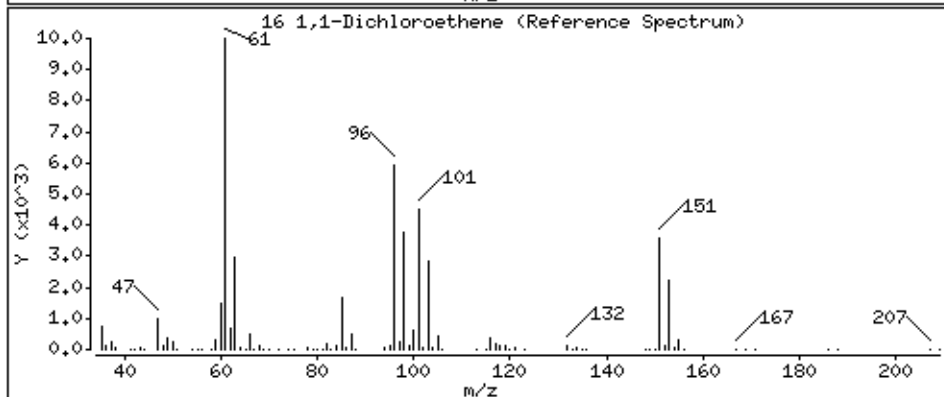
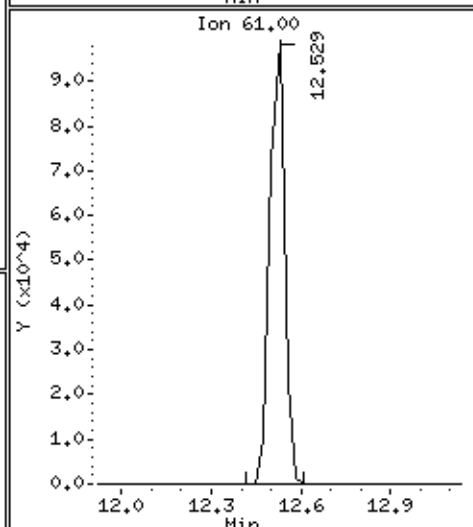
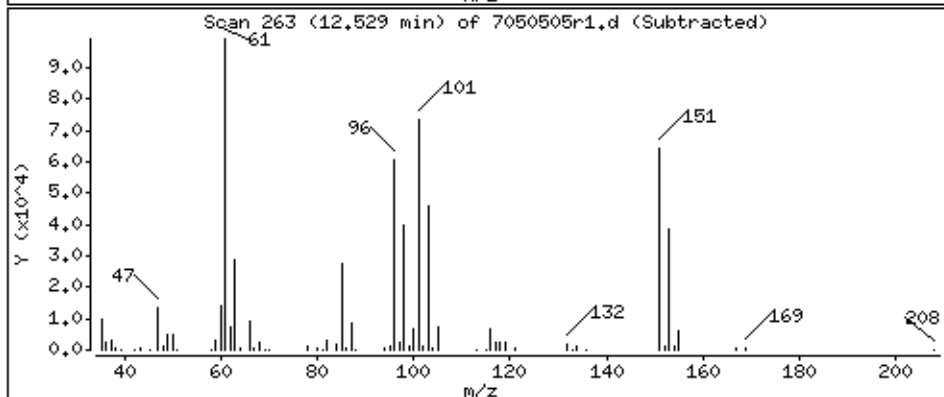
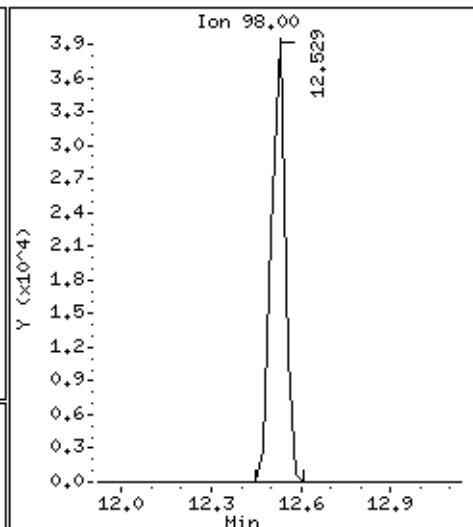
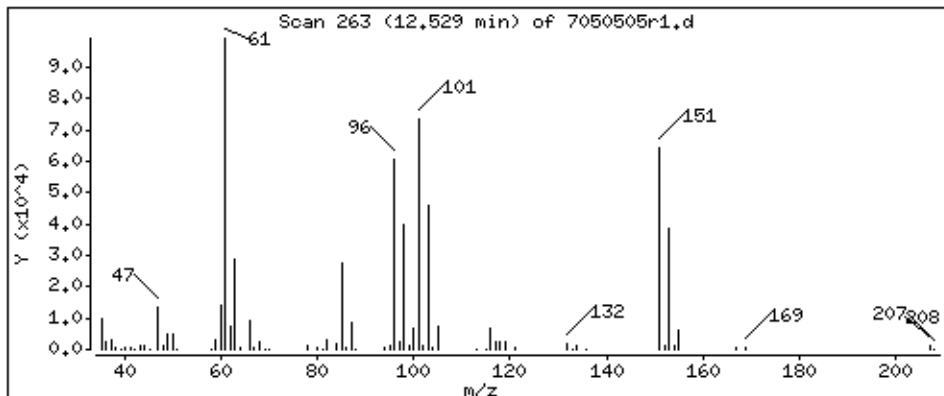
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

16 1,1-Dichloroethene

Concentration: 4.865 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

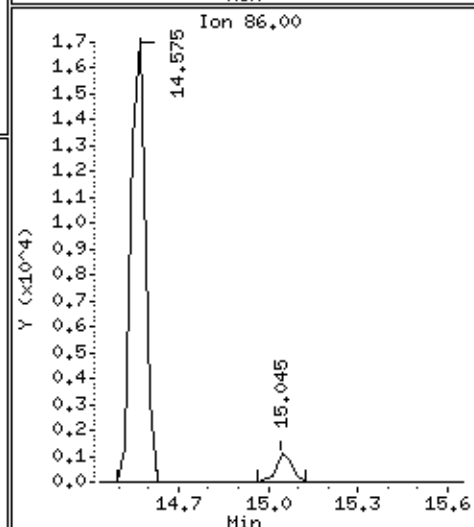
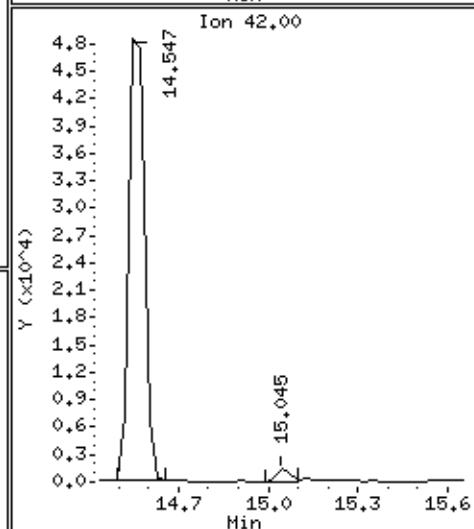
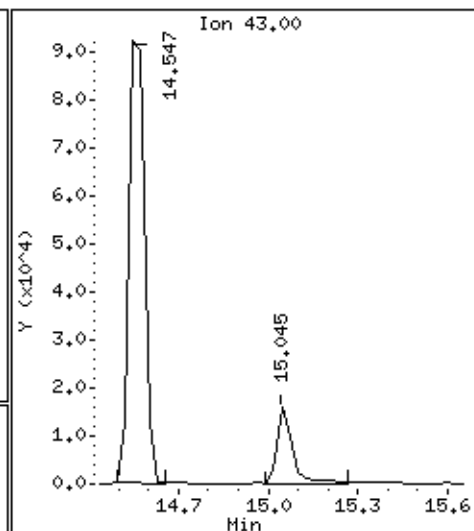
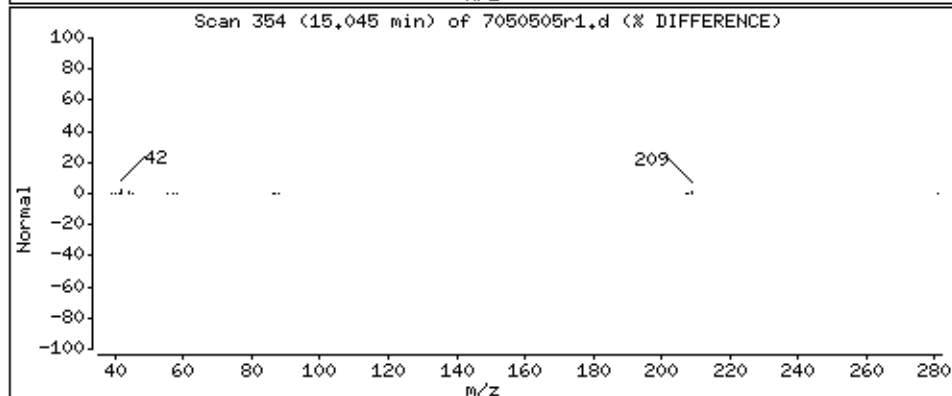
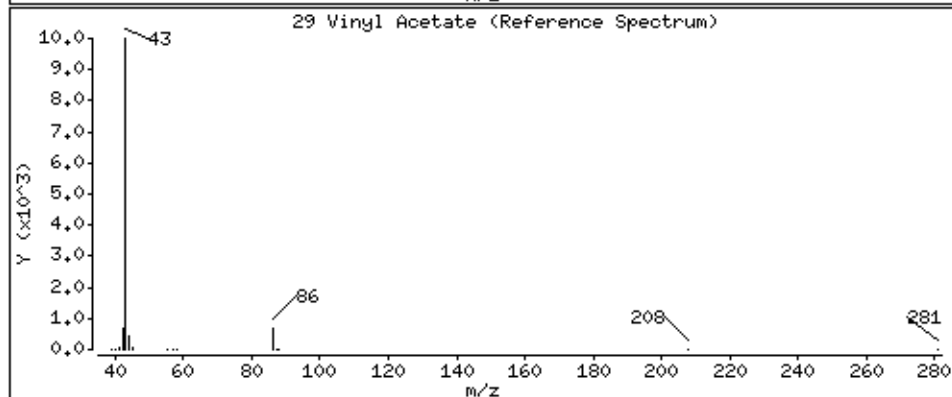
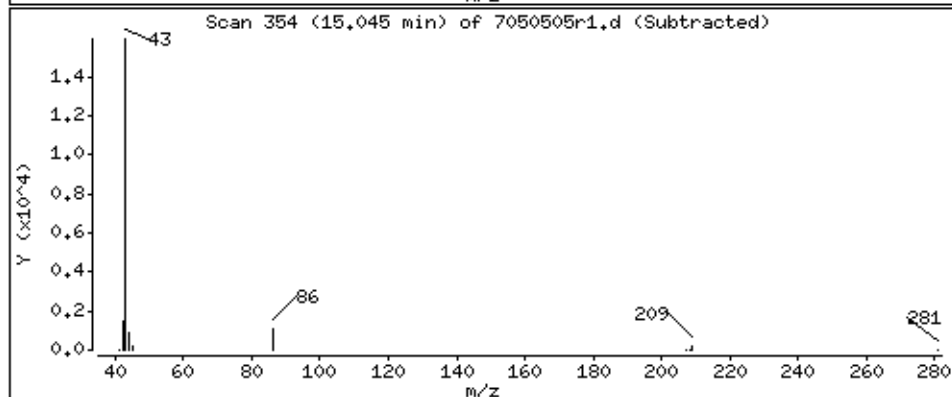
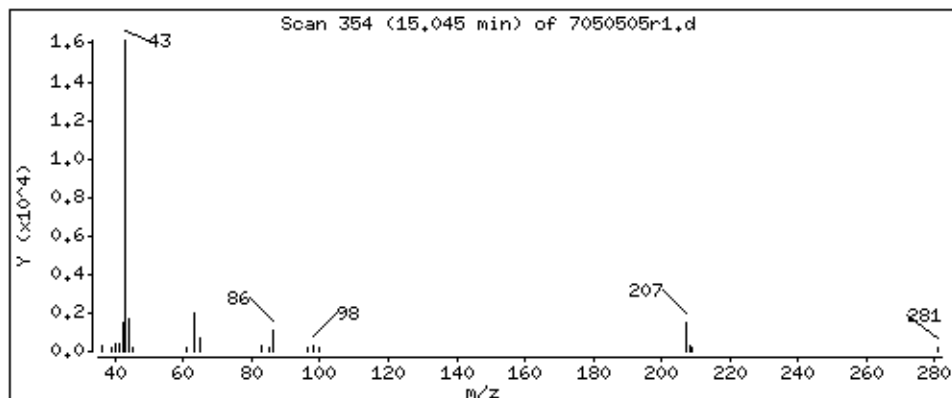
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

29 Vinyl Acetate

Concentration: 2.958 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

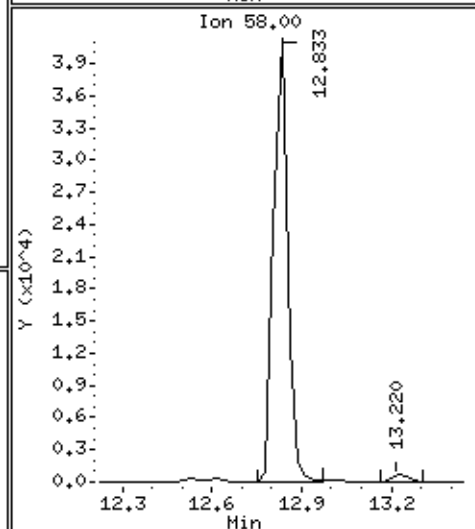
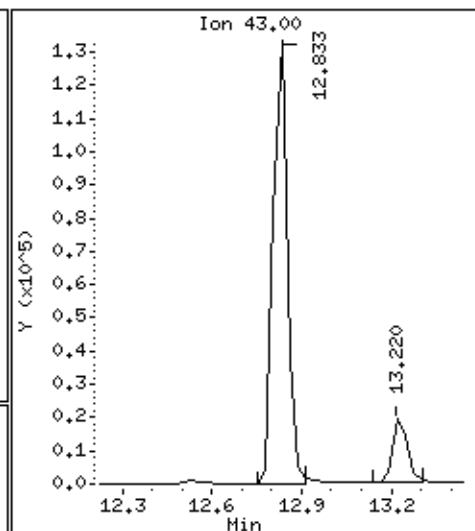
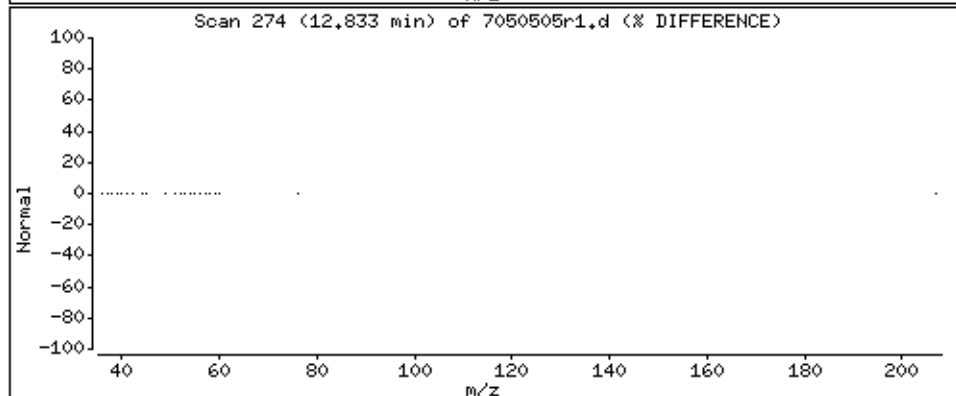
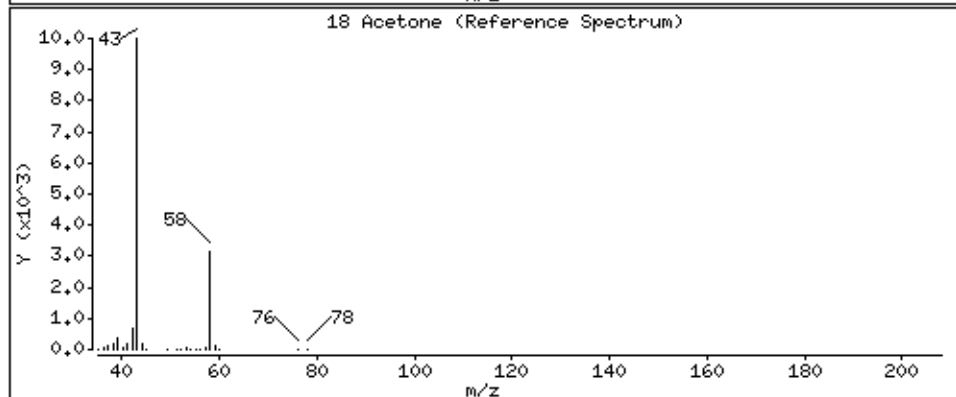
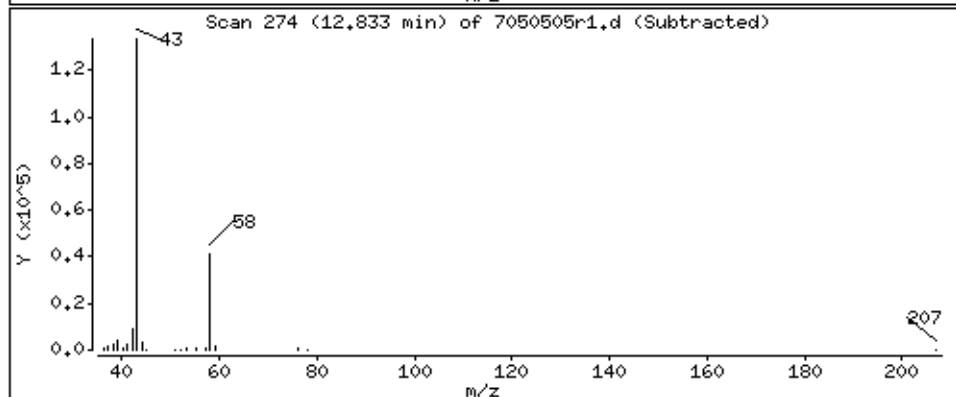
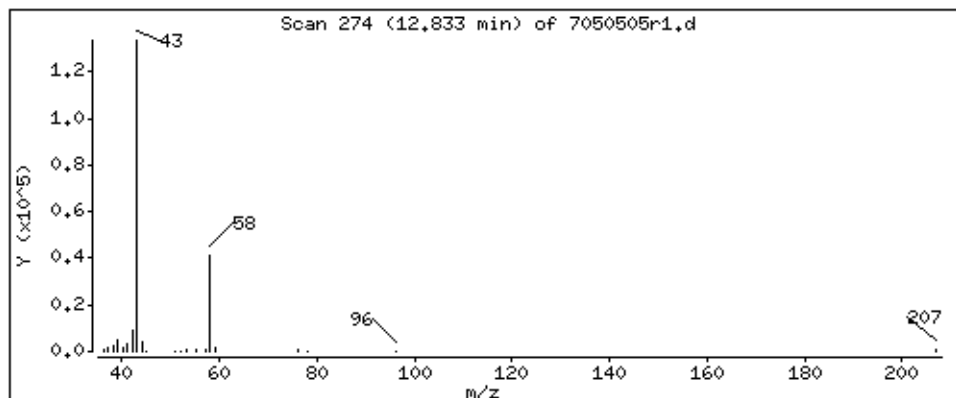
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

18 Acetone

Concentration: 4.766 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

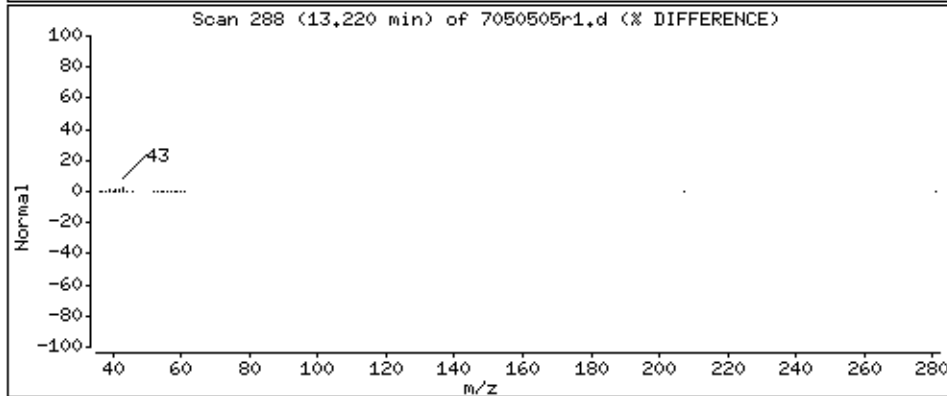
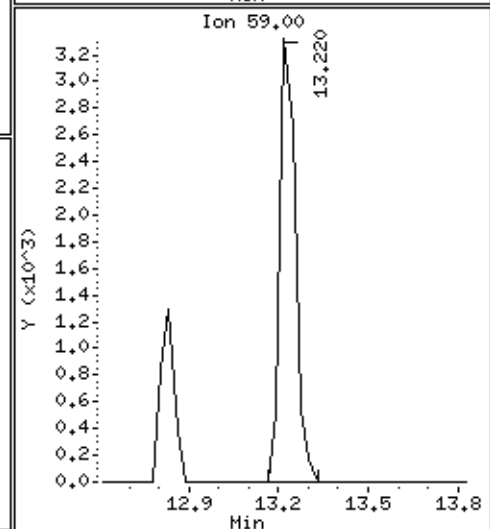
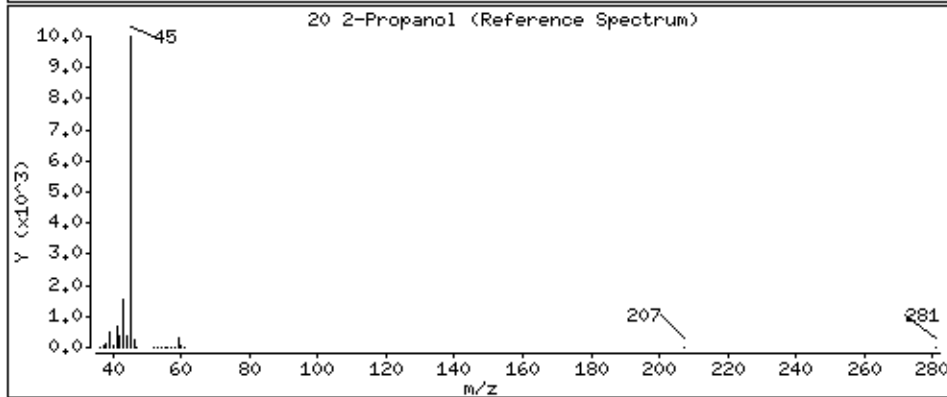
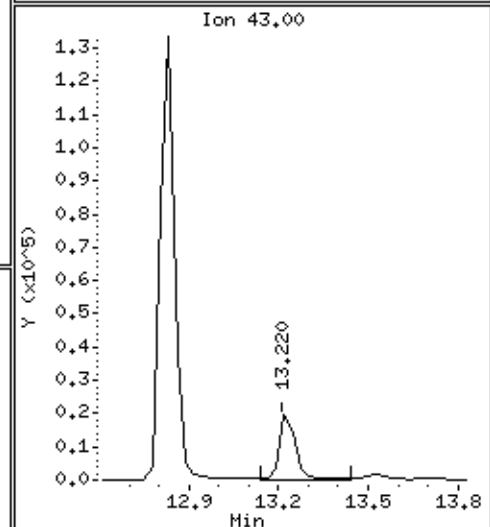
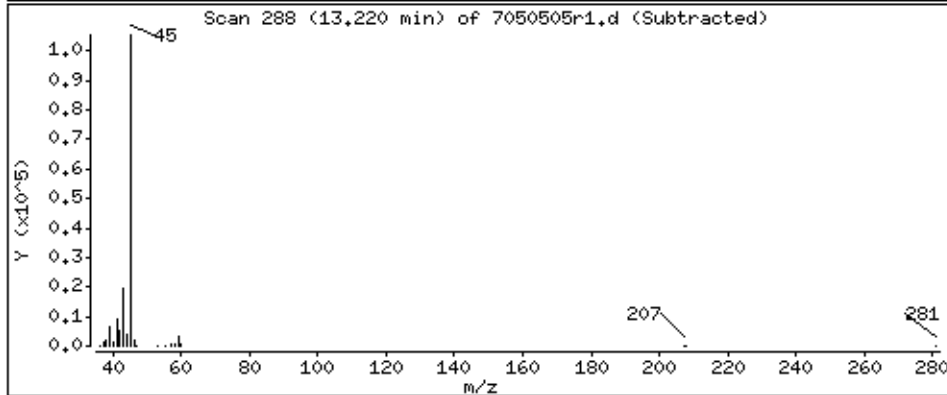
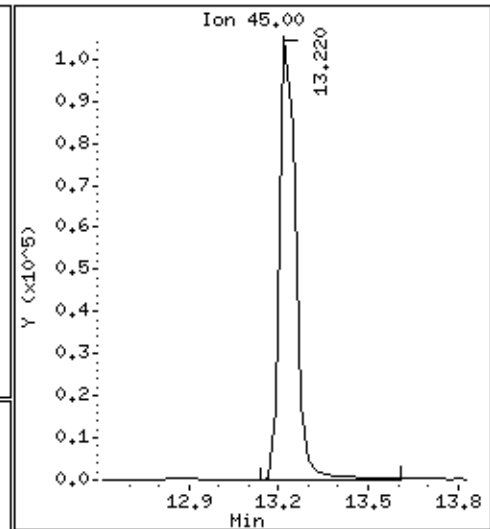
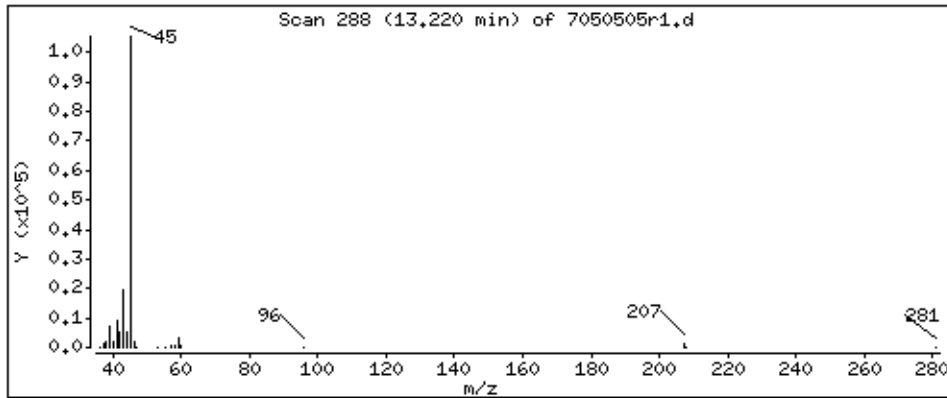
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

20 2-Propanol

Concentration: 4.163 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

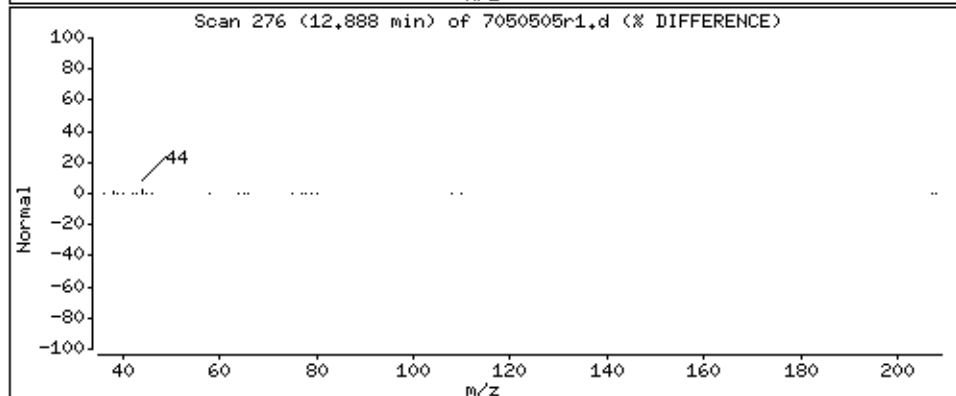
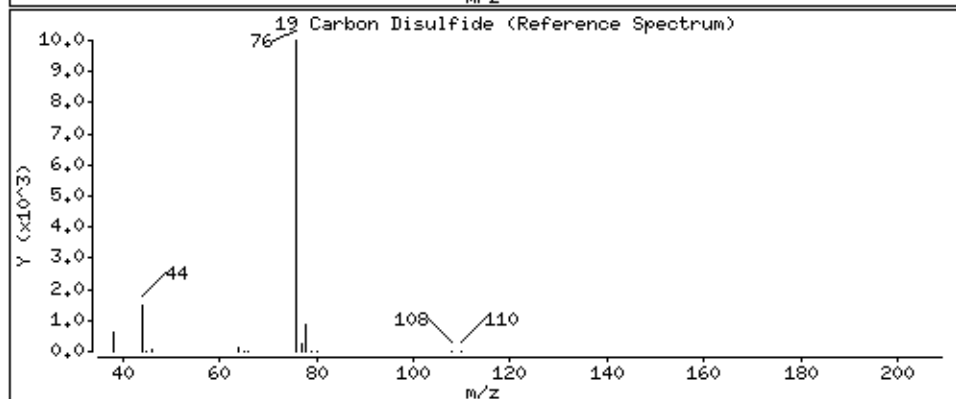
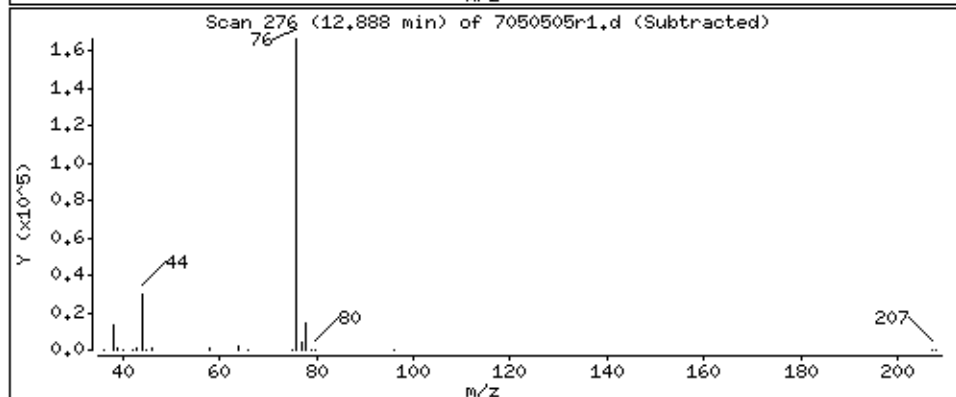
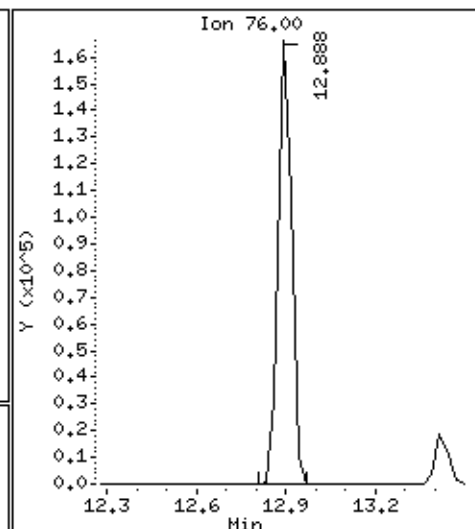
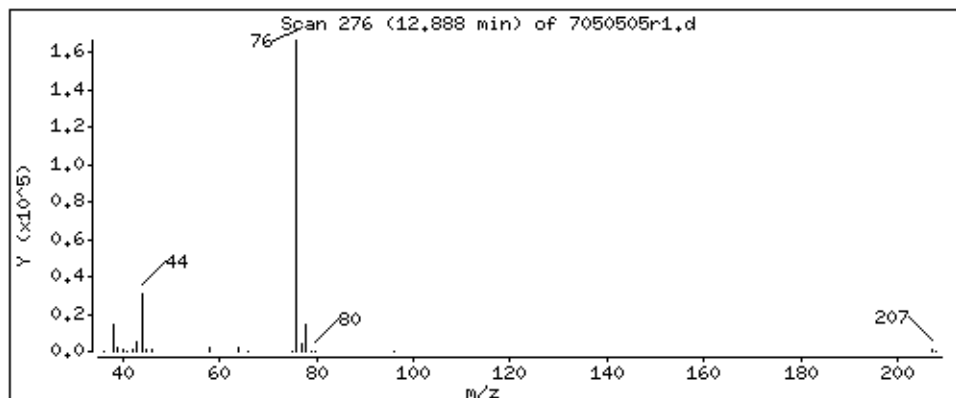
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

19 Carbon Disulfide

Concentration: 5.226 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

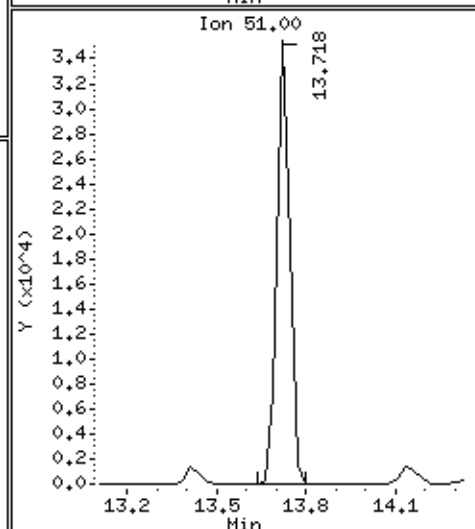
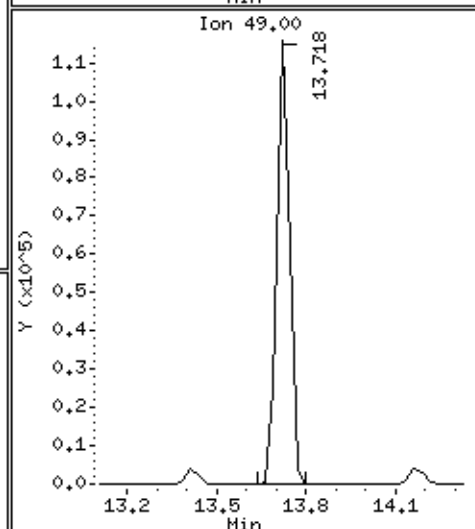
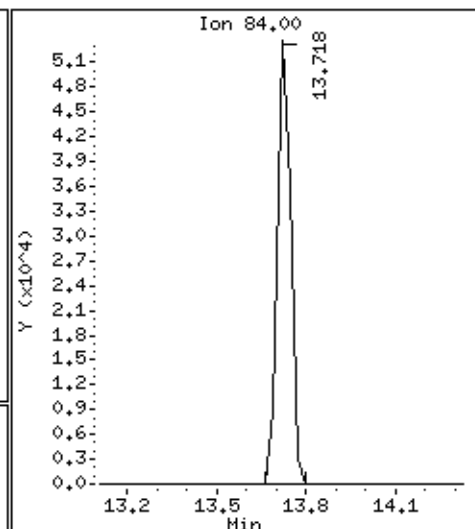
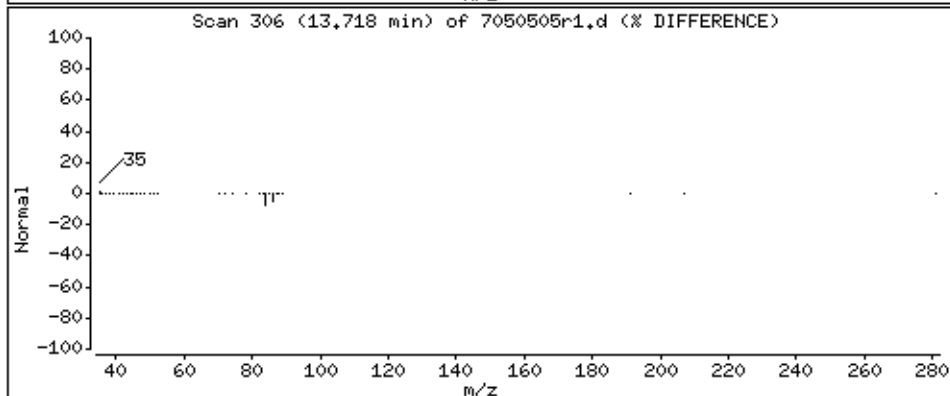
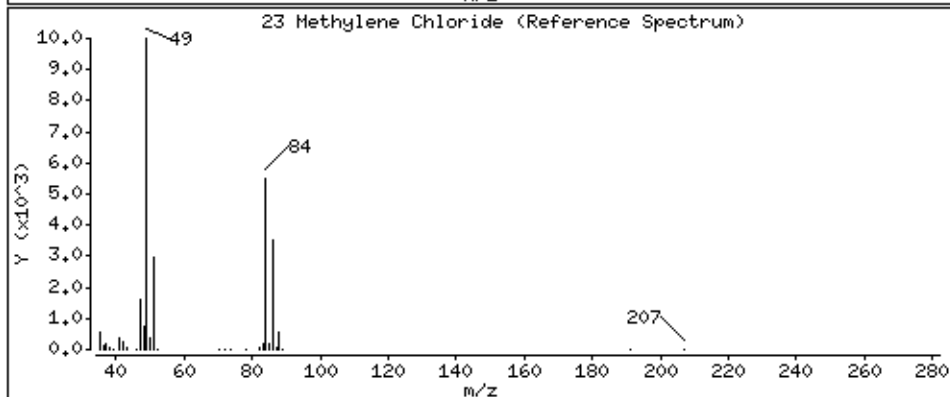
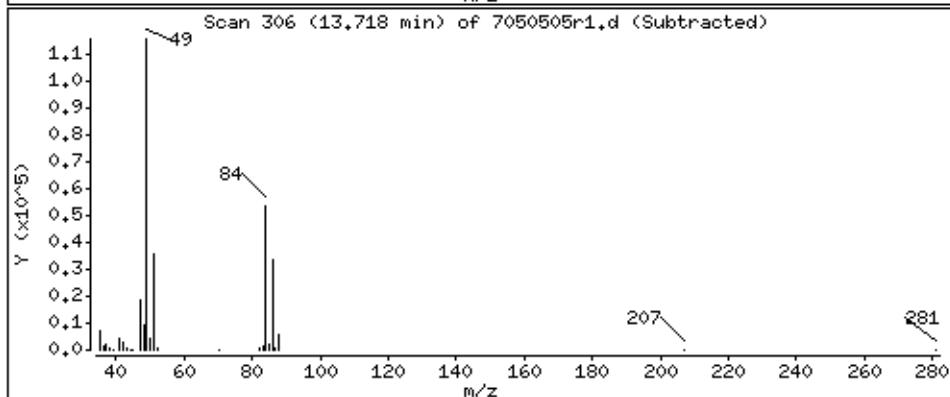
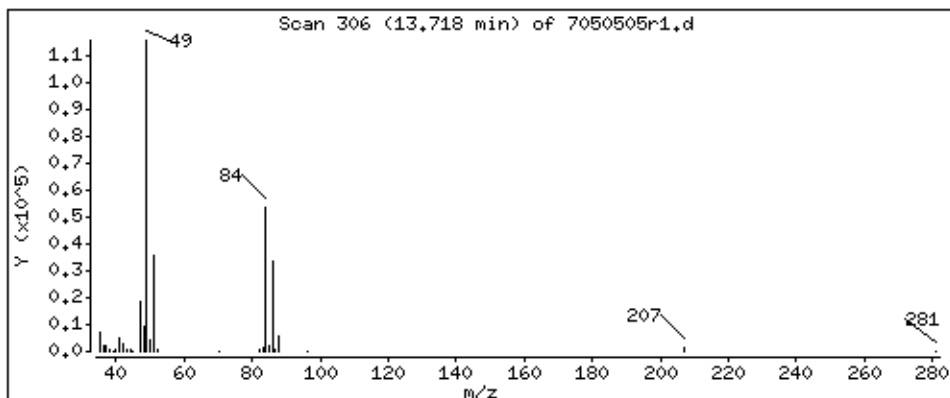
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

23 Methylene Chloride

Concentration: 4.787 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

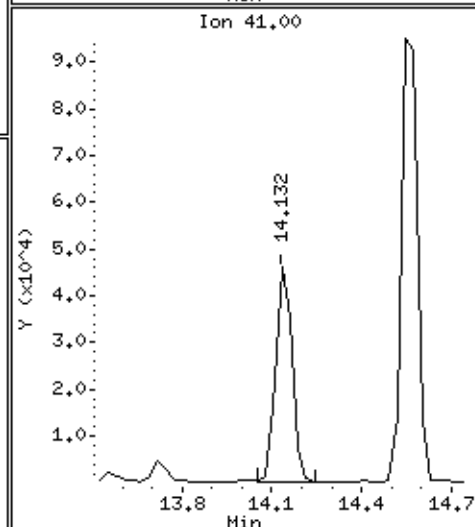
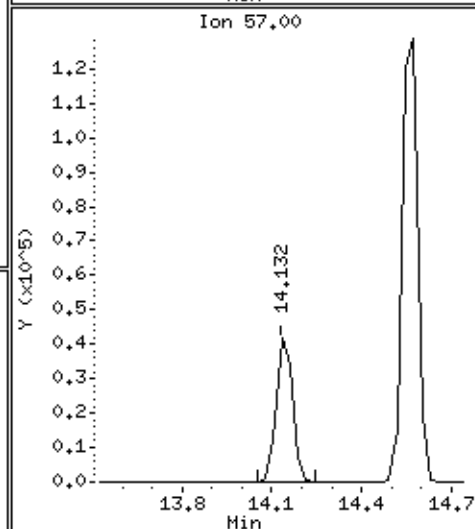
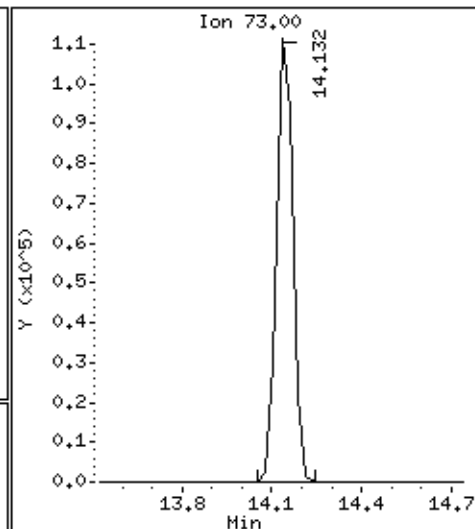
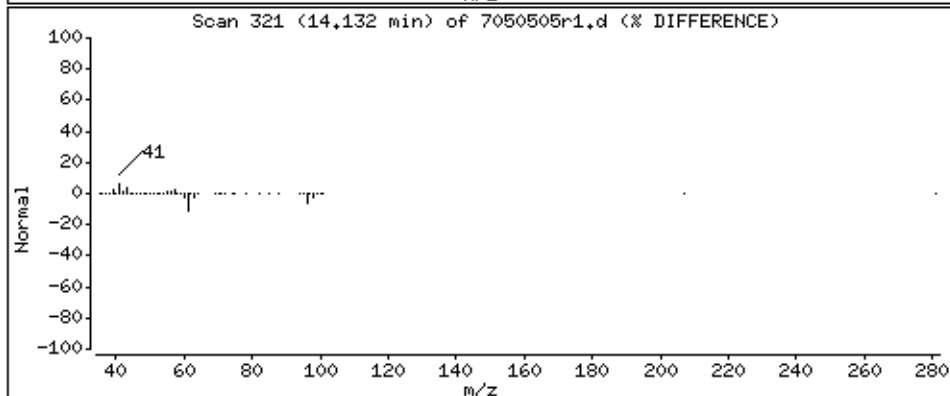
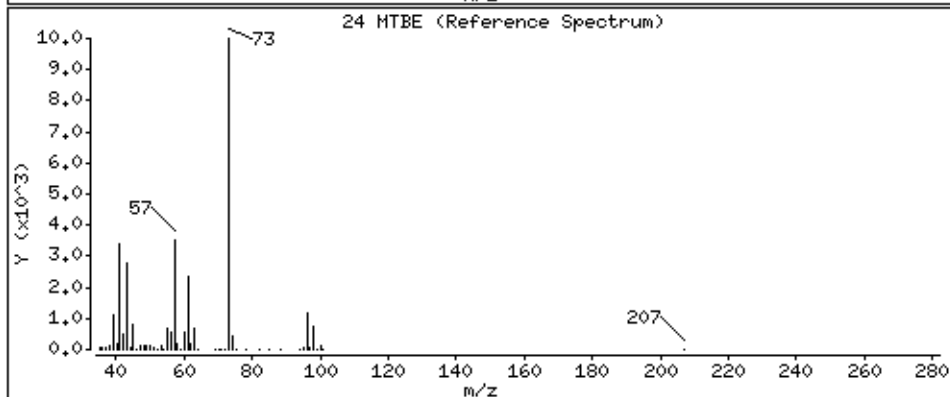
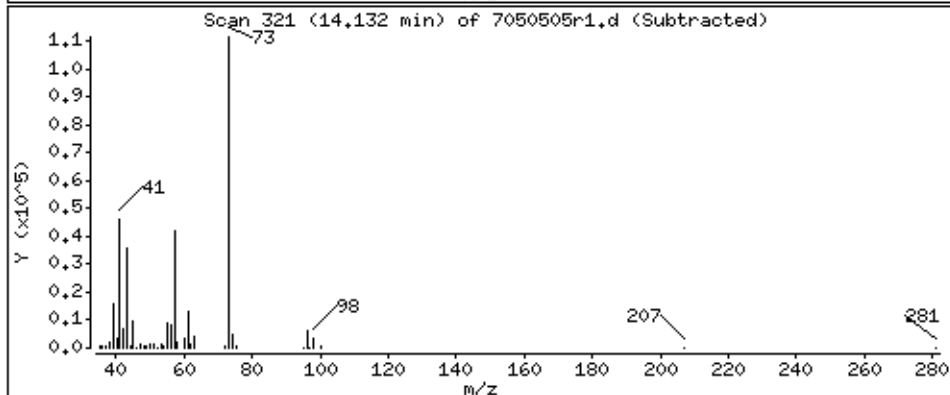
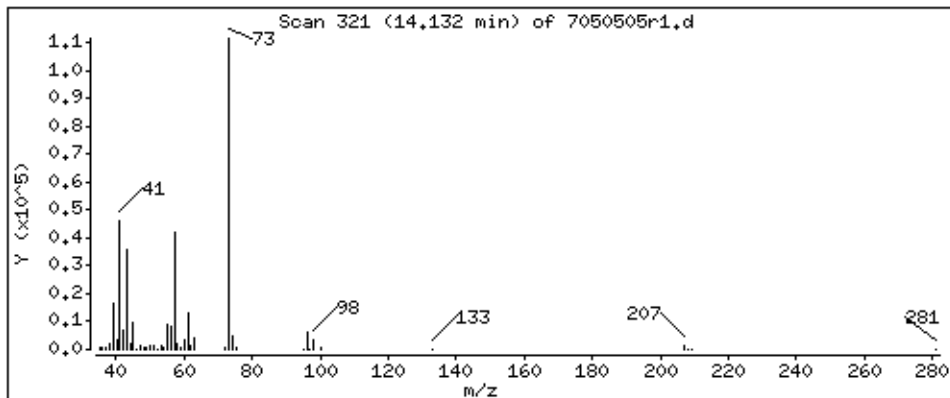
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

24 MTBE

Concentration: 4.906 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

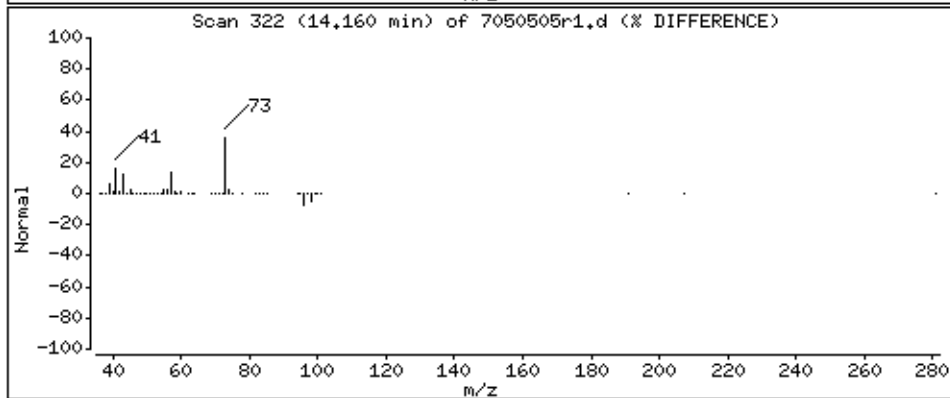
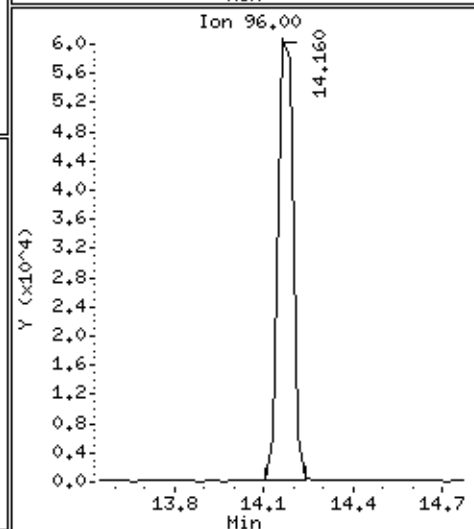
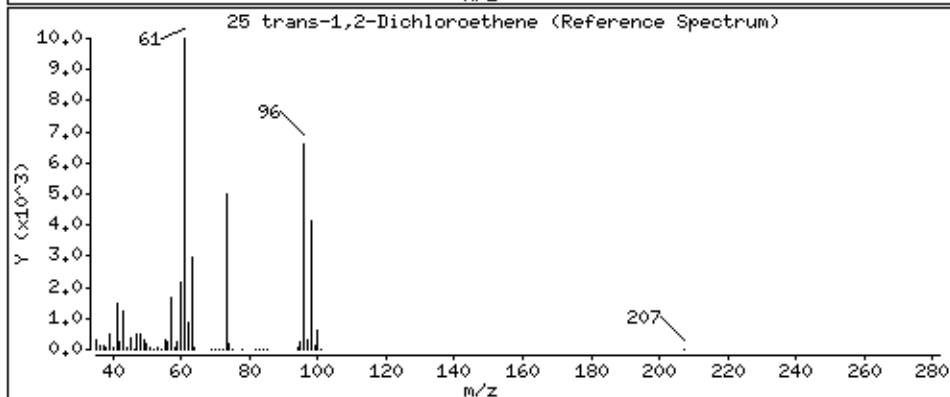
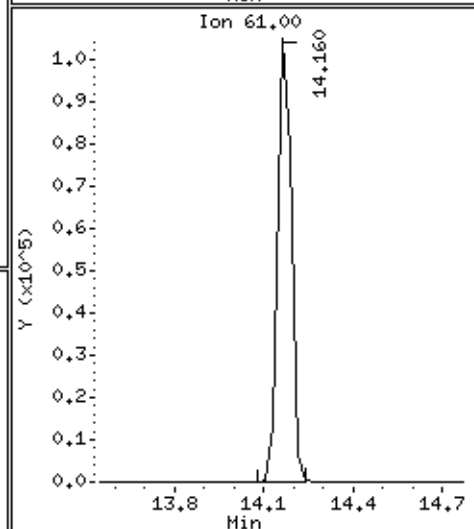
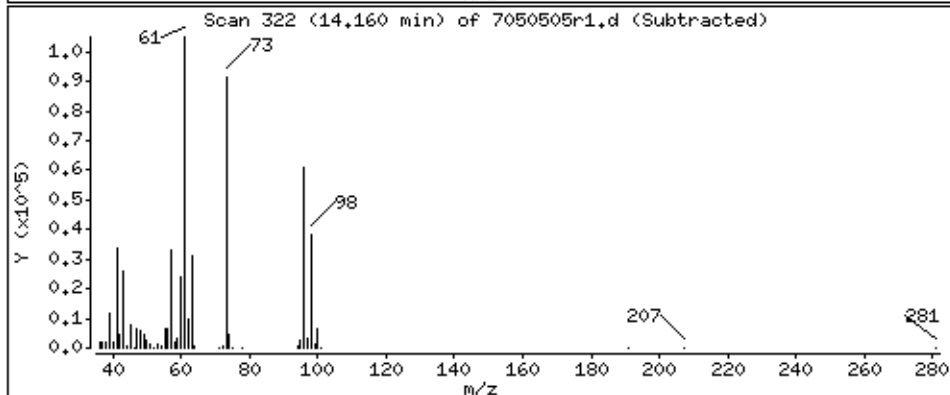
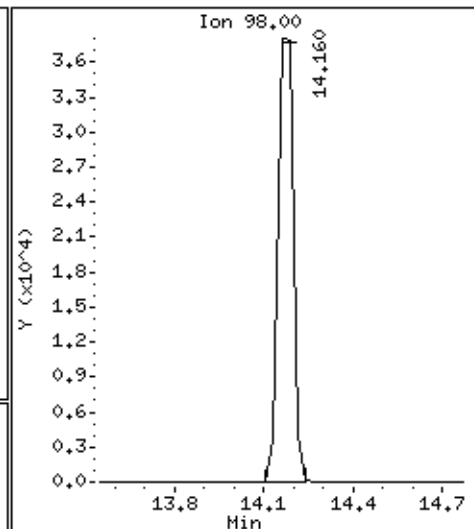
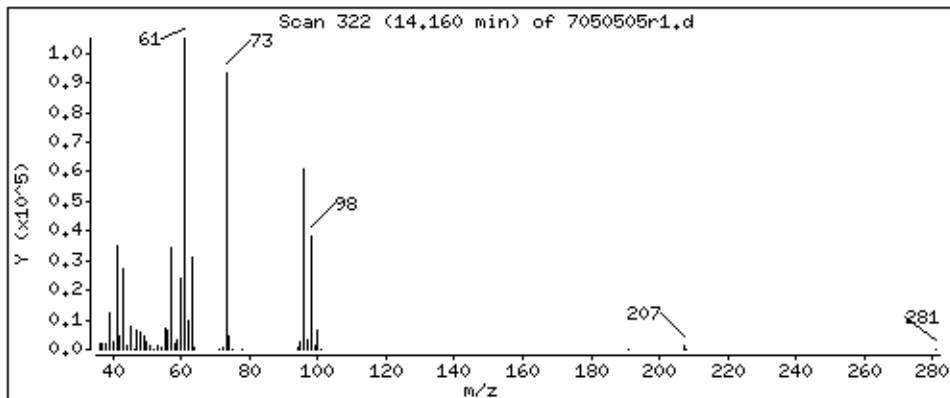
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

25 trans-1,2-Dichloroethene

Concentration: 5.905 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

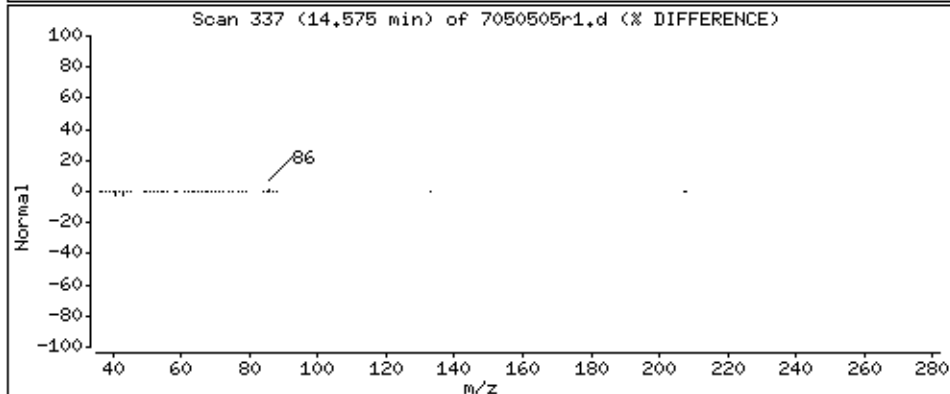
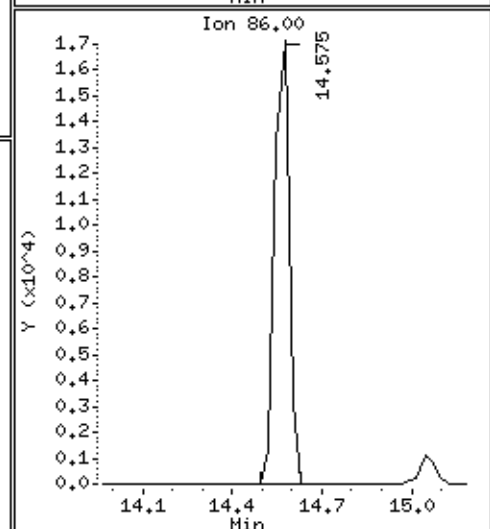
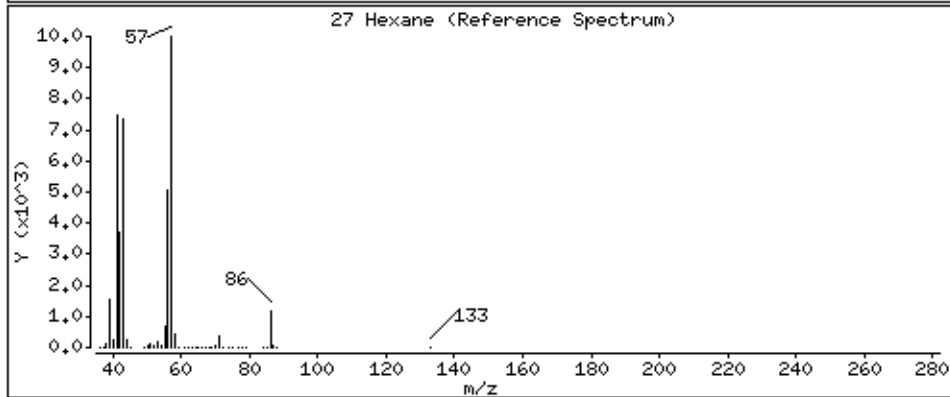
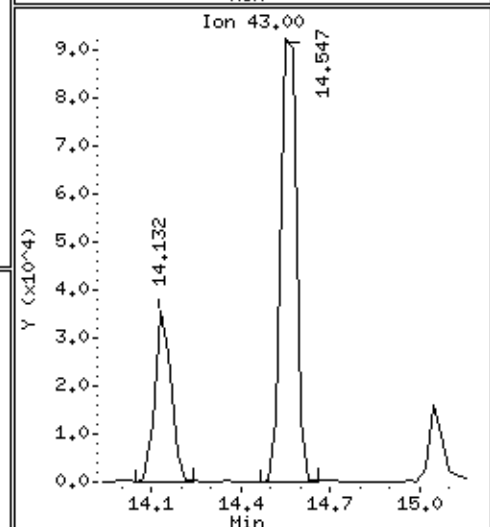
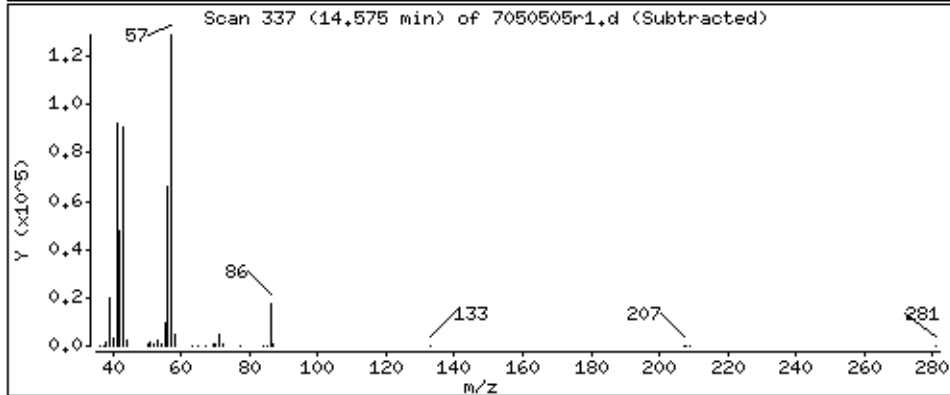
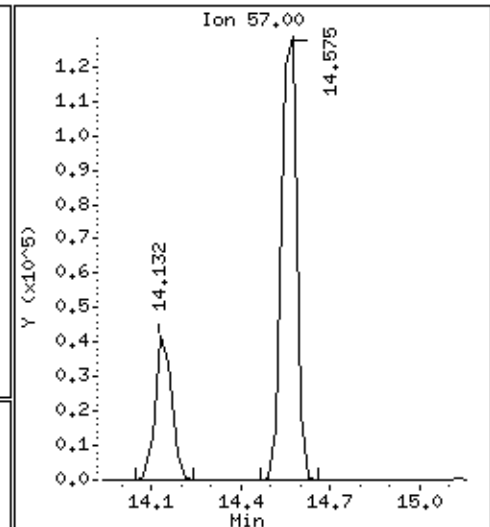
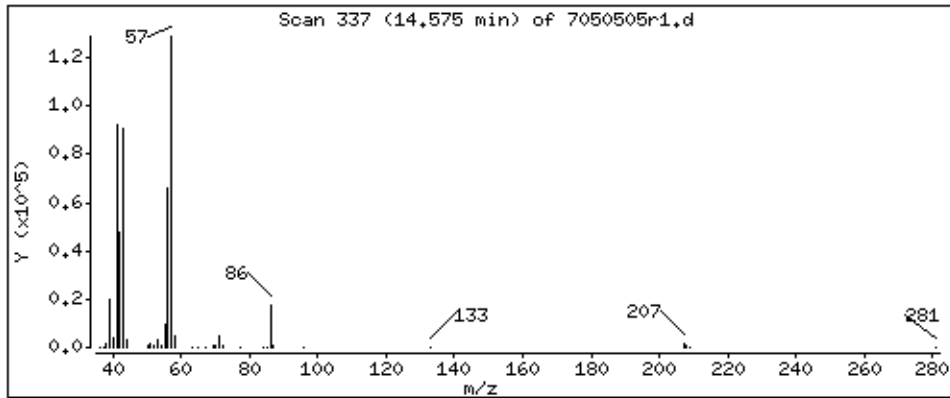
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

27 Hexane

Concentration: 5.109 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

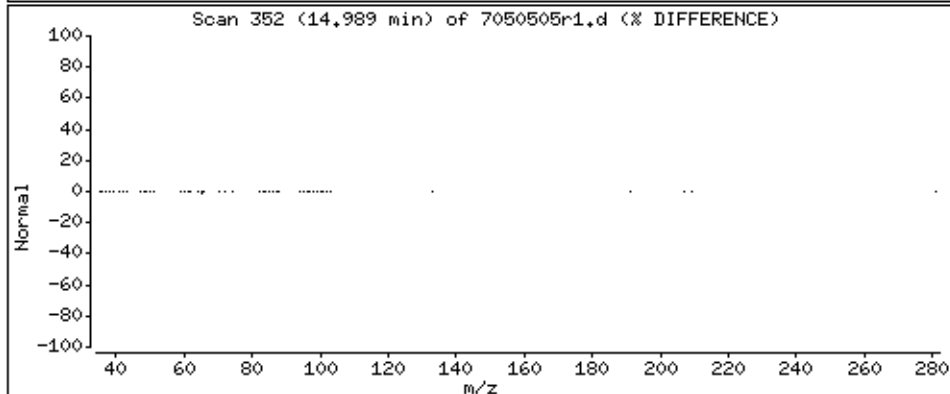
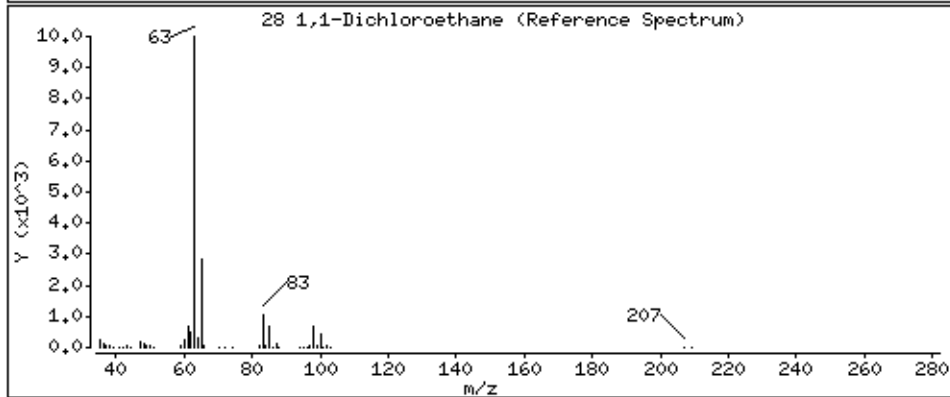
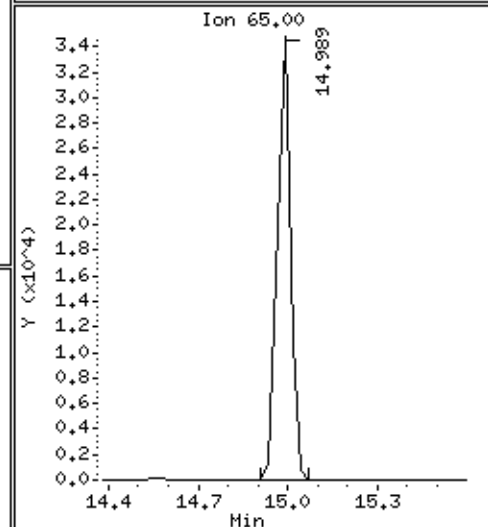
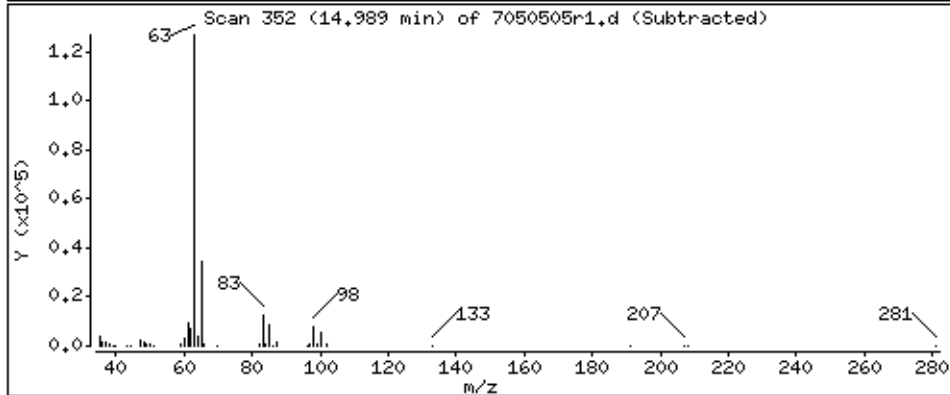
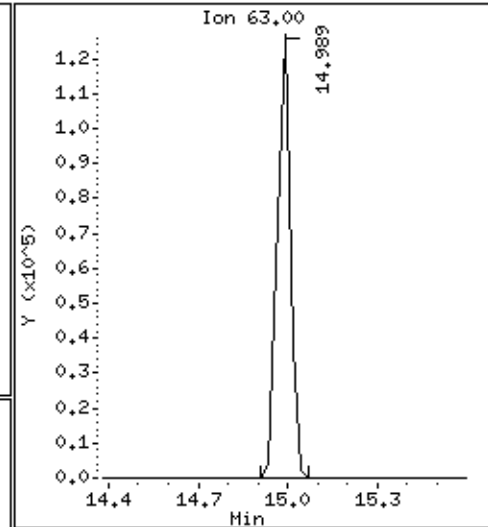
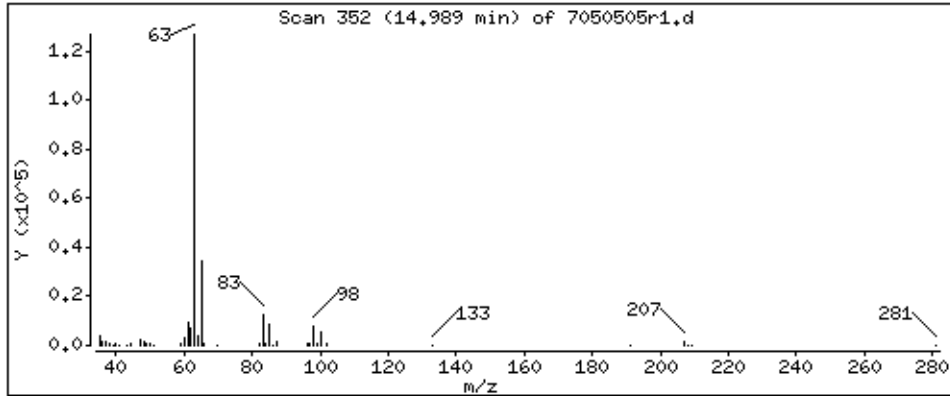
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

28 1,1-Dichloroethane

Concentration: 4.784 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

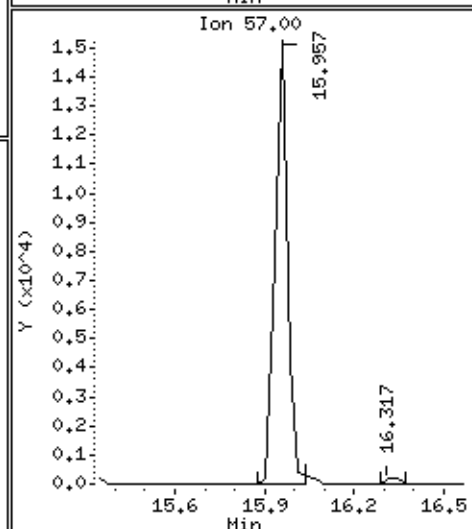
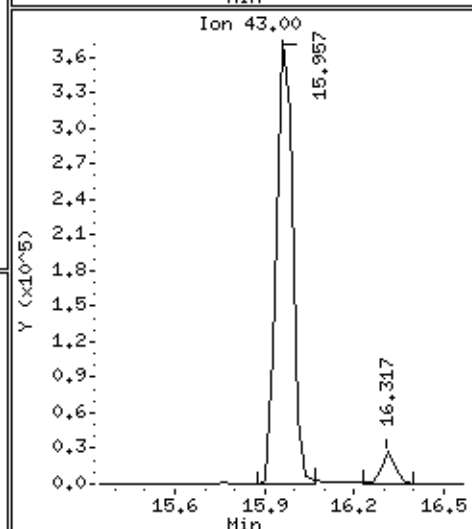
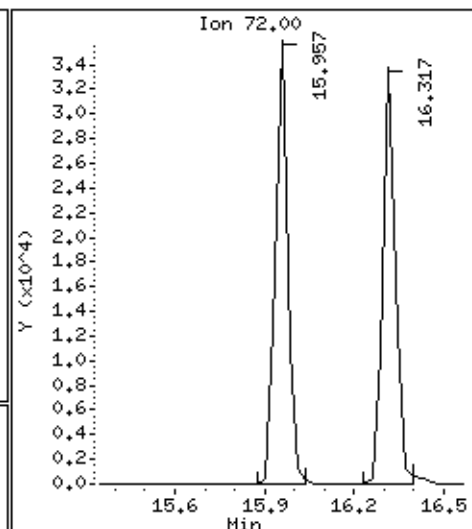
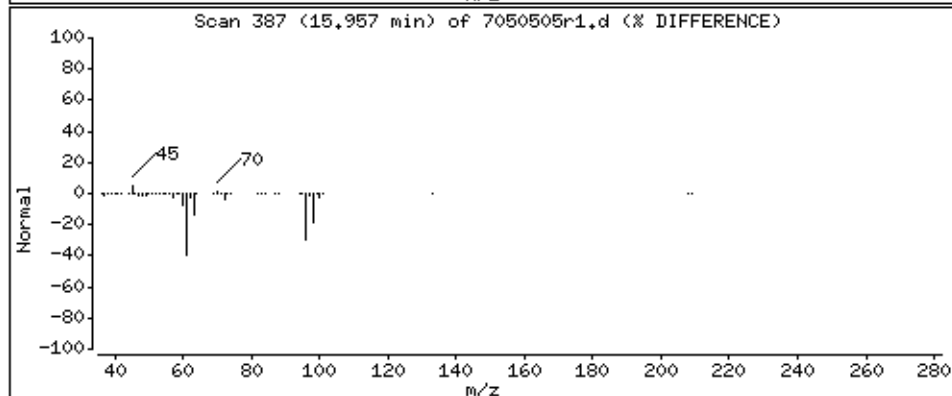
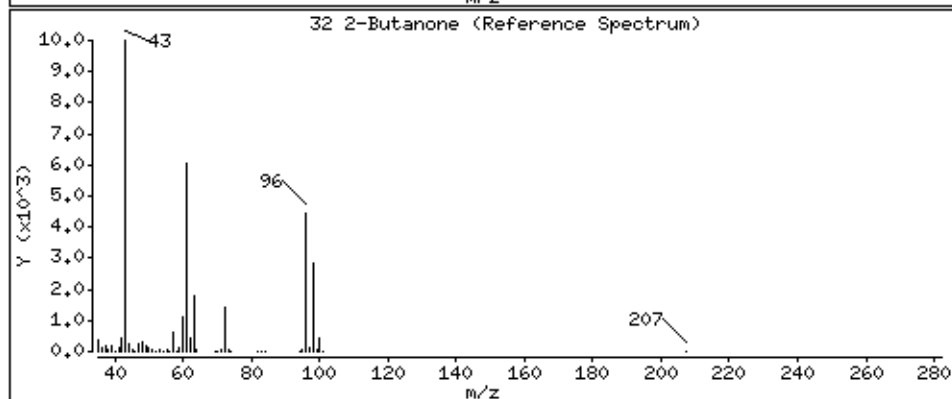
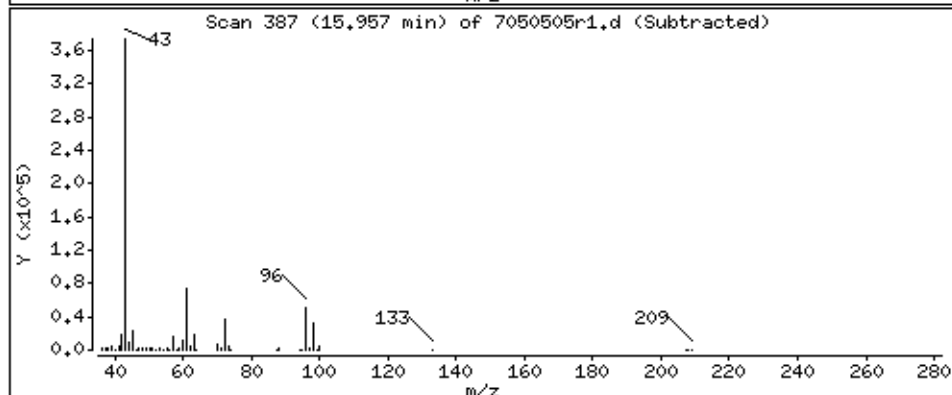
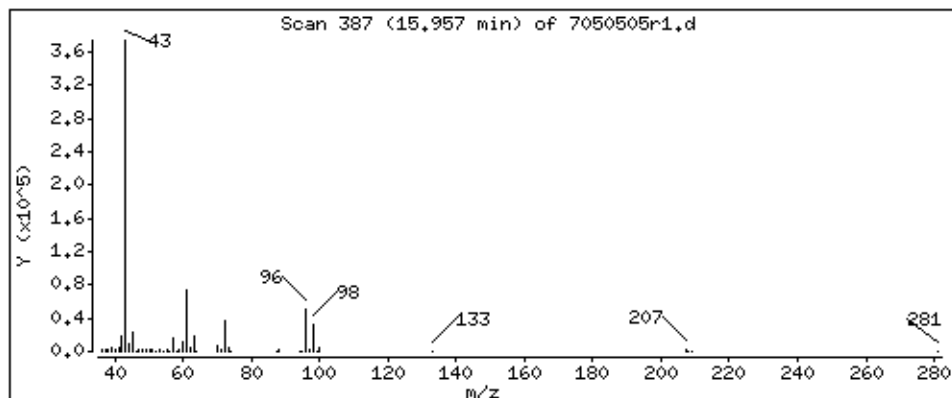
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

32 2-Butanone

Concentration: 5.023 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

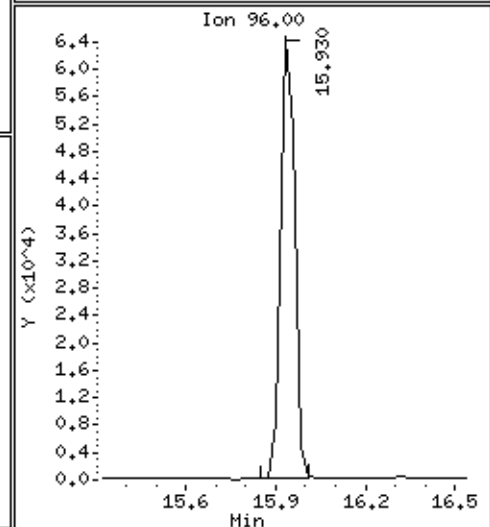
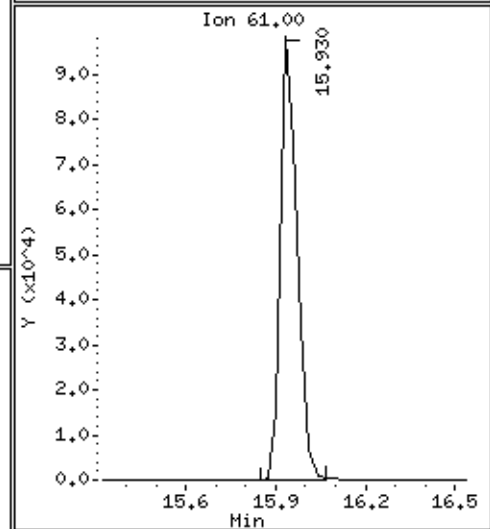
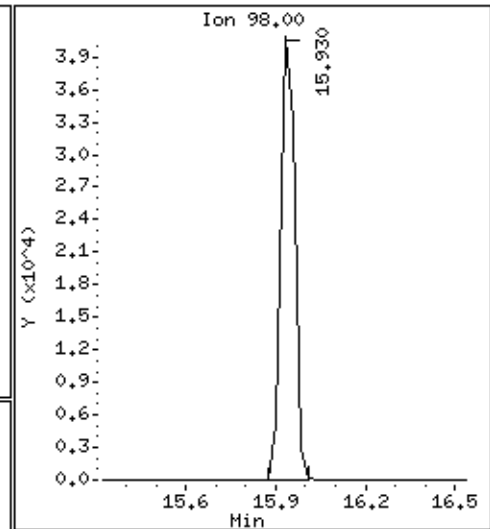
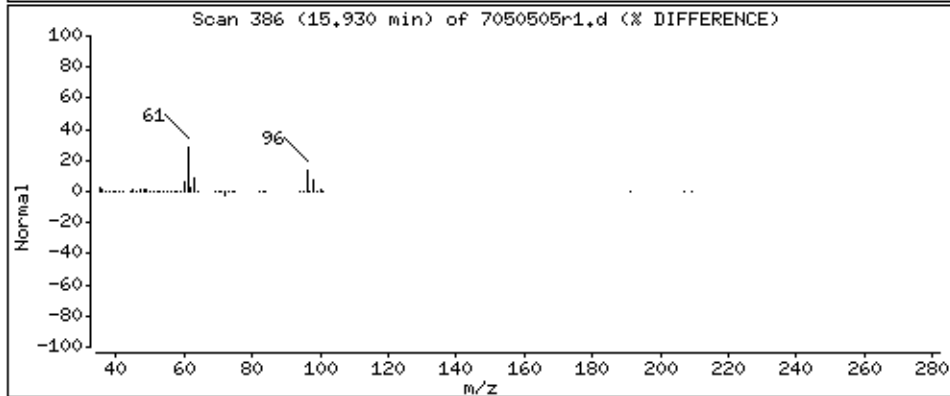
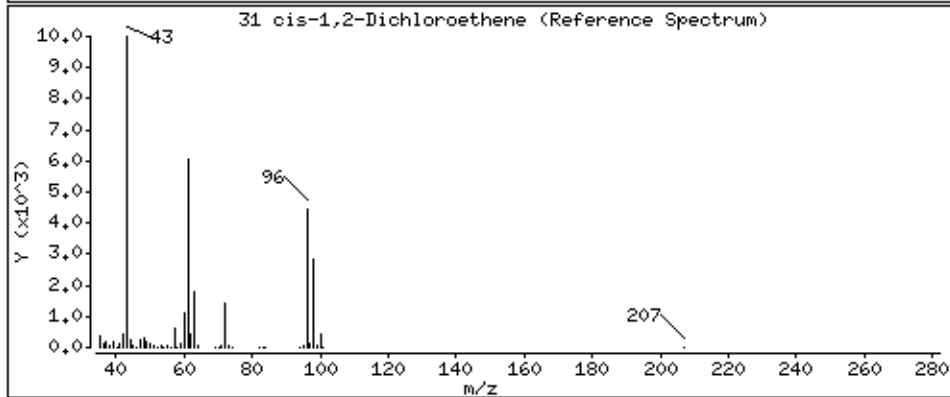
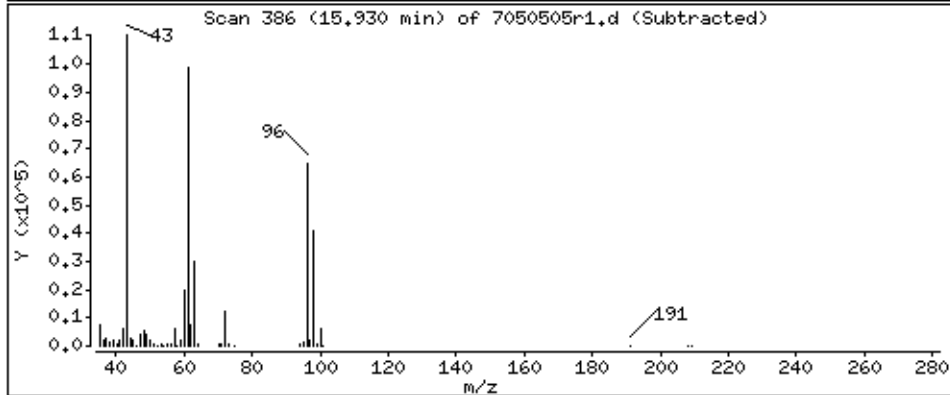
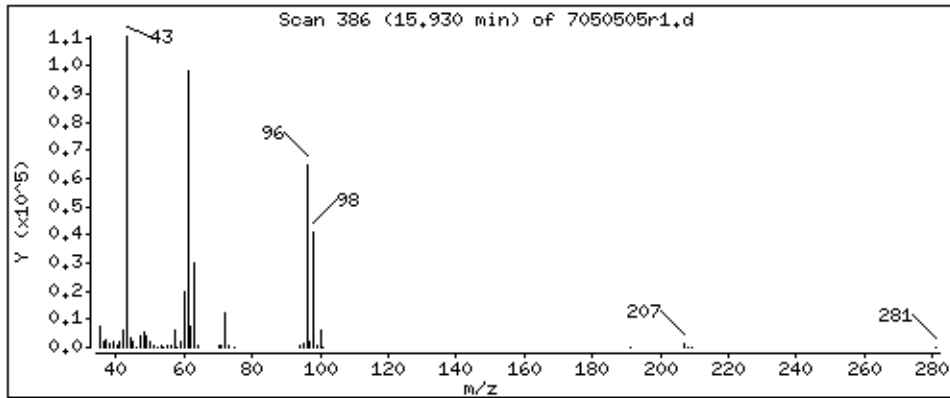
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

31 cis-1,2-Dichloroethene

Concentration: 4.250 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

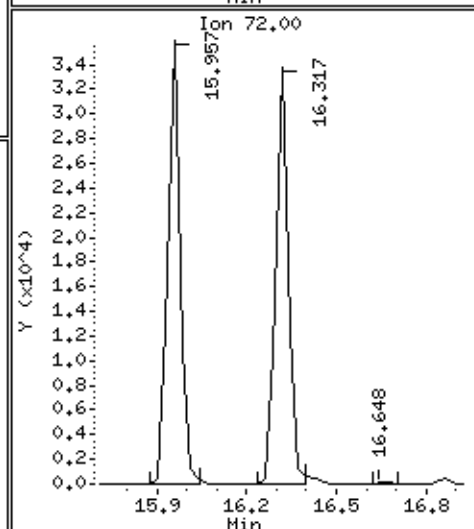
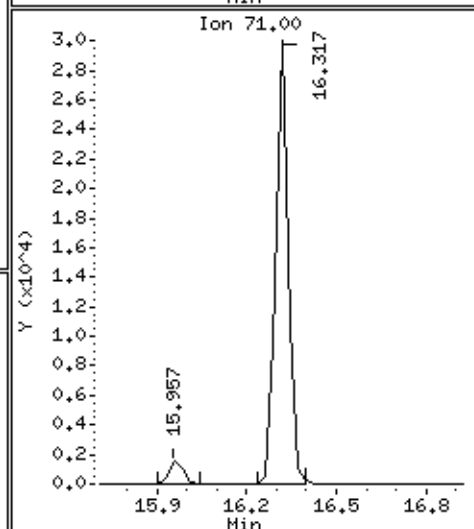
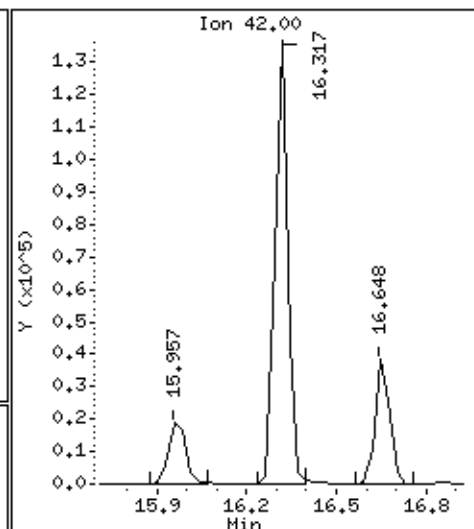
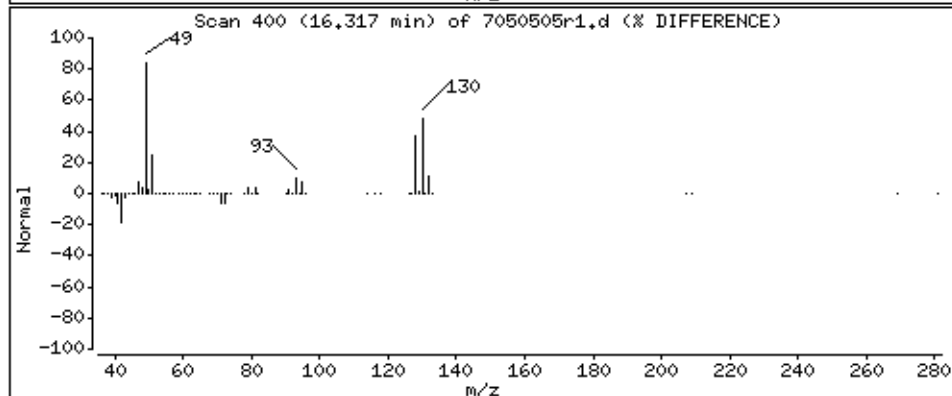
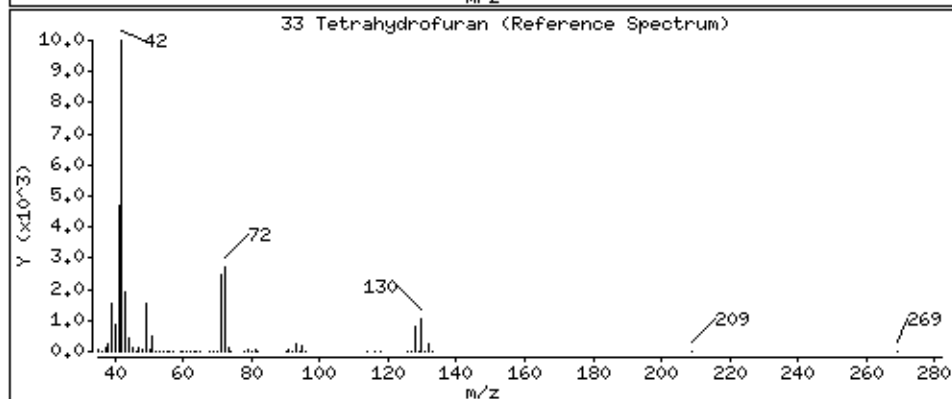
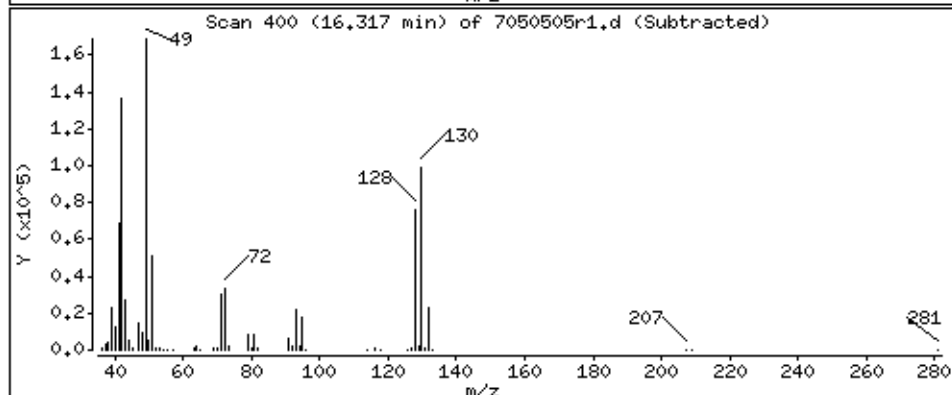
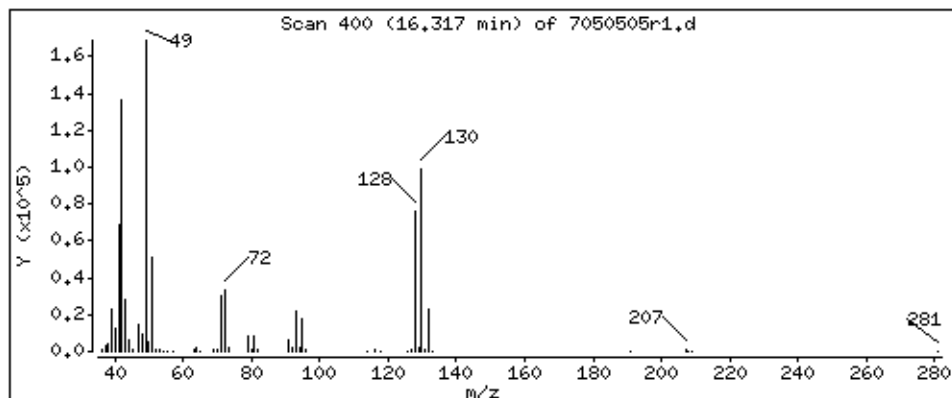
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

33 Tetrahydrofuran

Concentration: 4.756 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

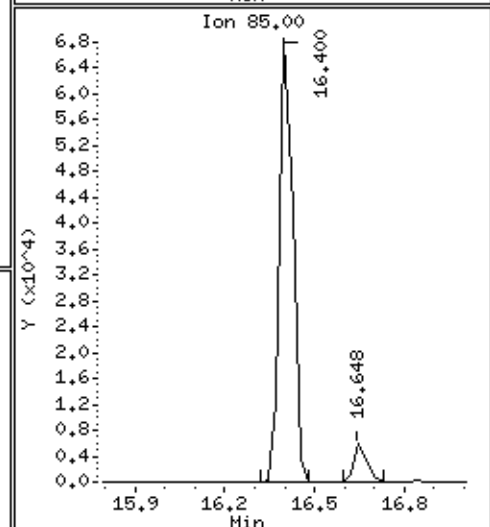
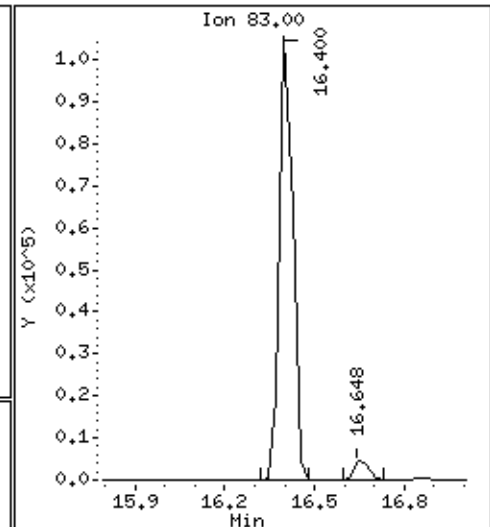
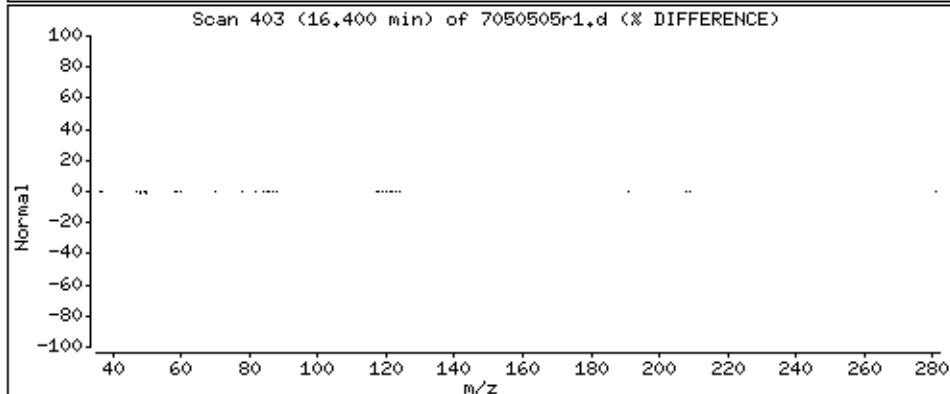
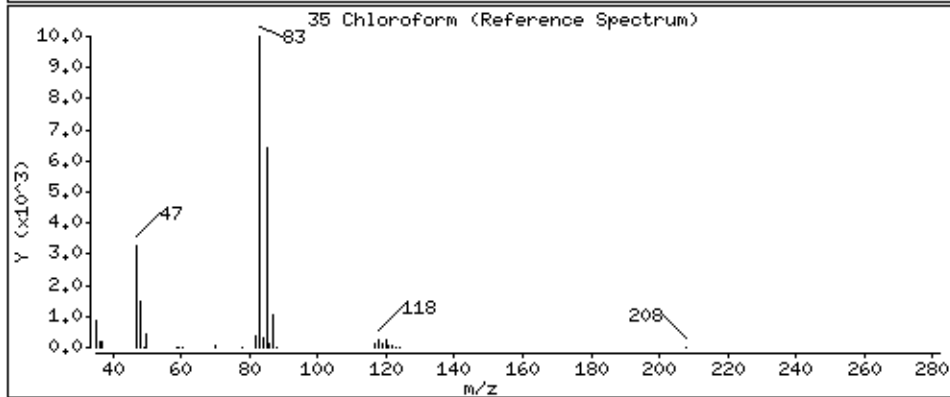
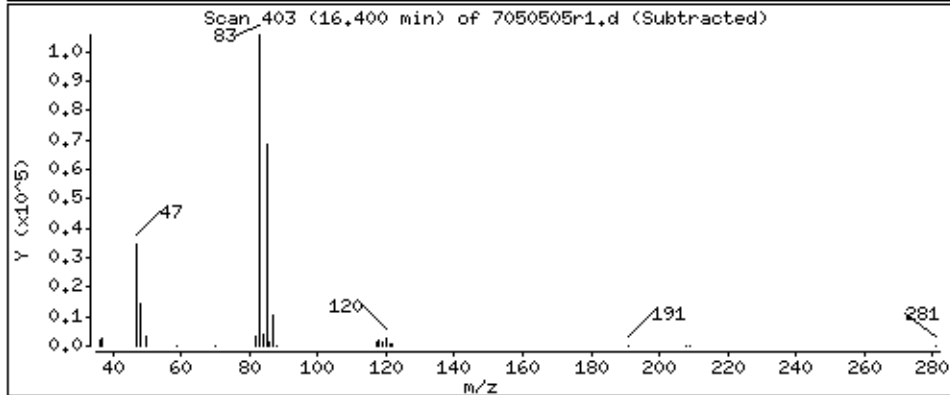
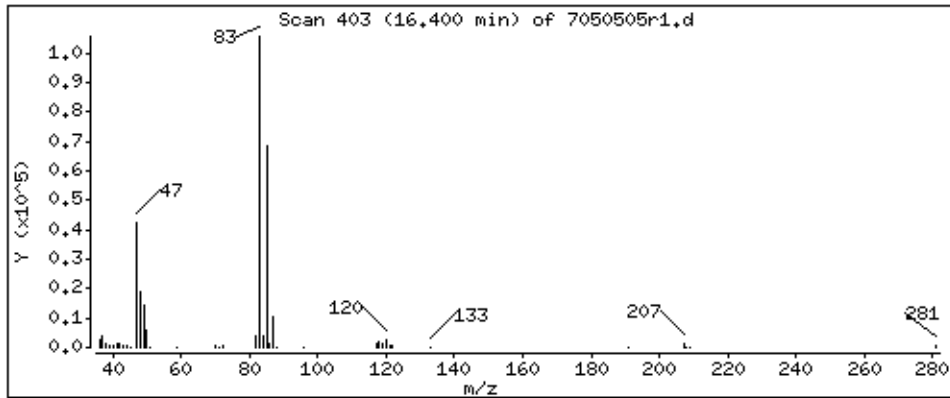
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

35 Chloroform

Concentration: 4.730 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

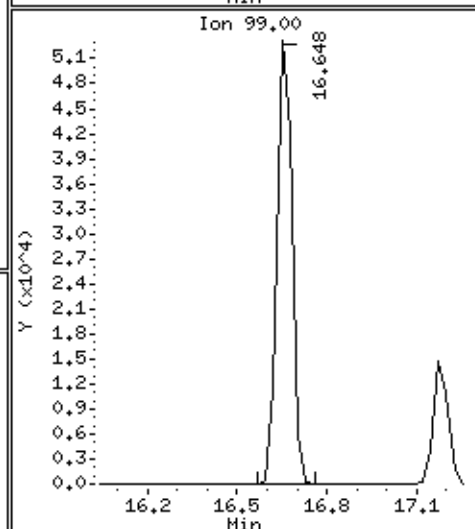
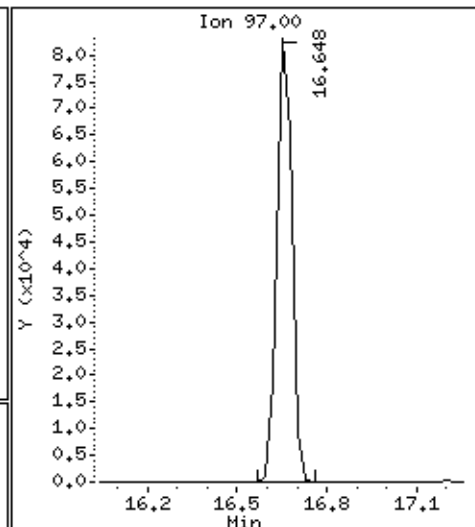
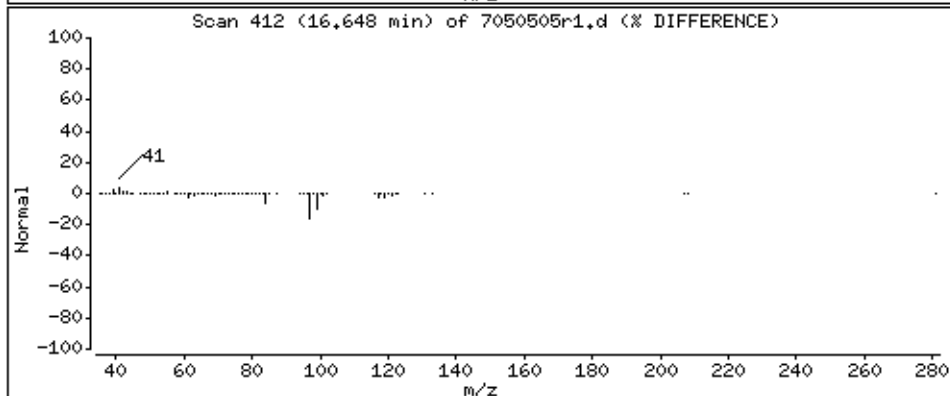
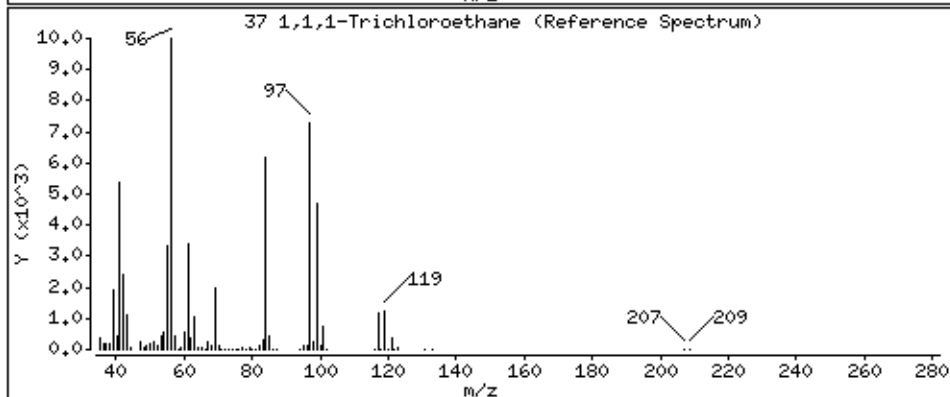
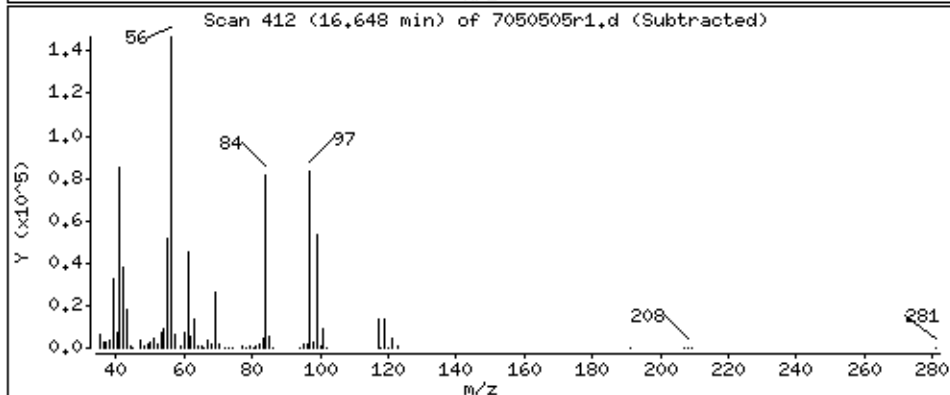
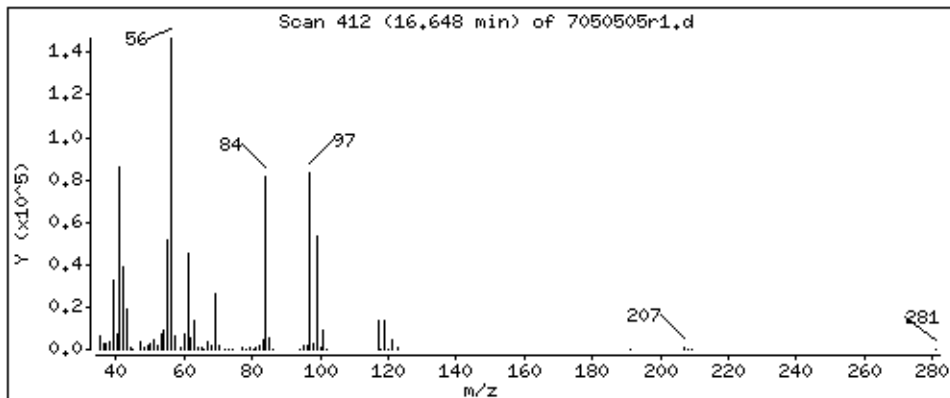
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

37 1,1,1-Trichloroethane

Concentration: 4.247 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

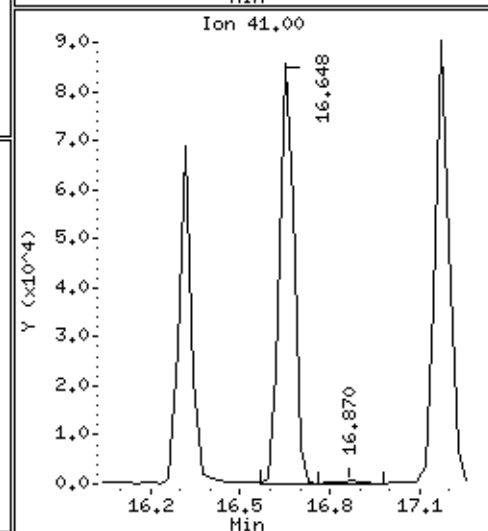
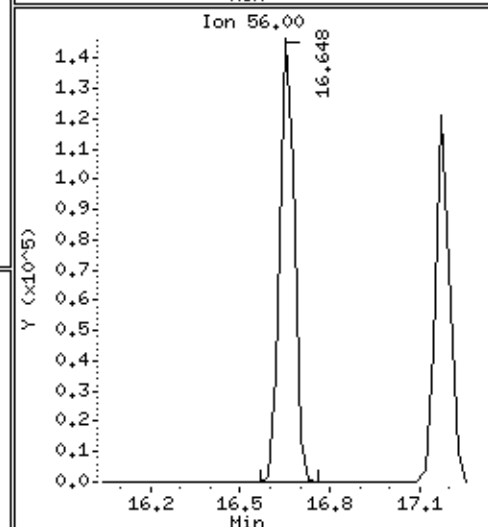
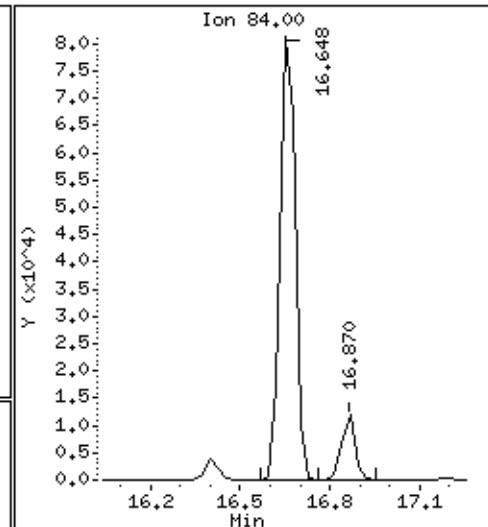
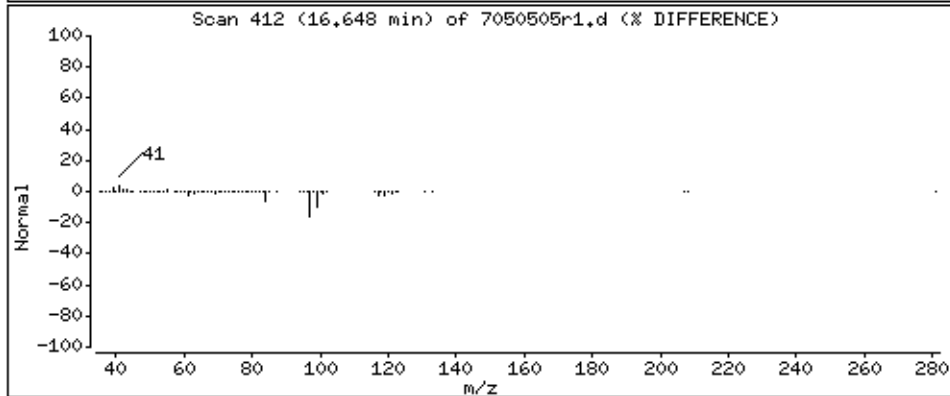
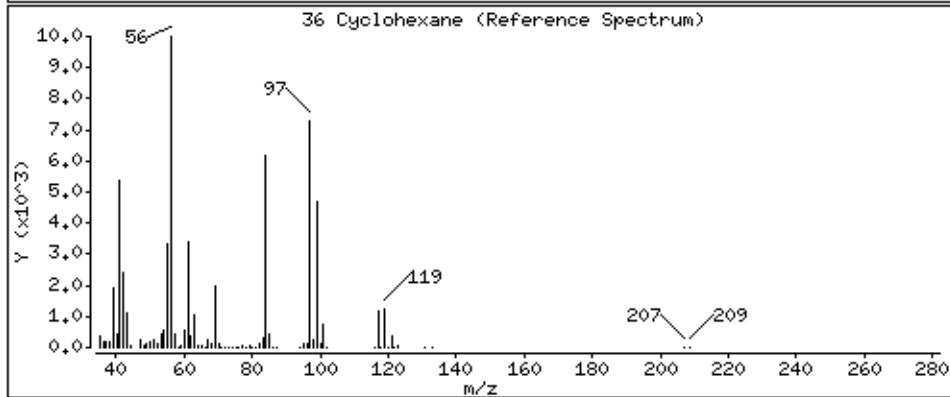
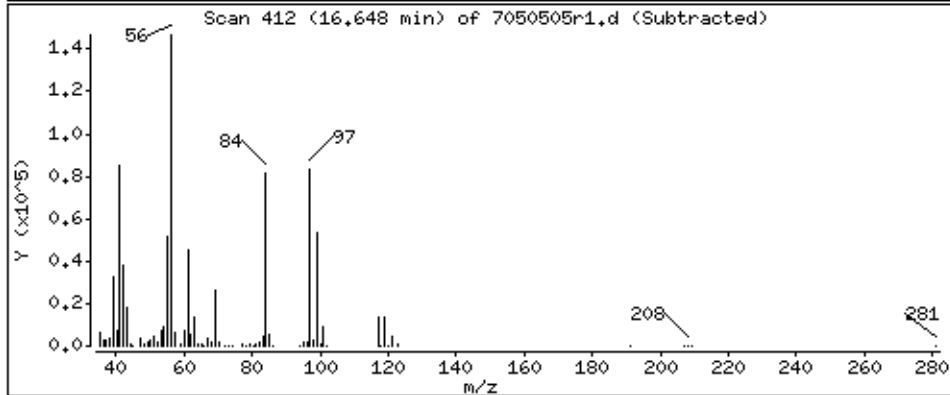
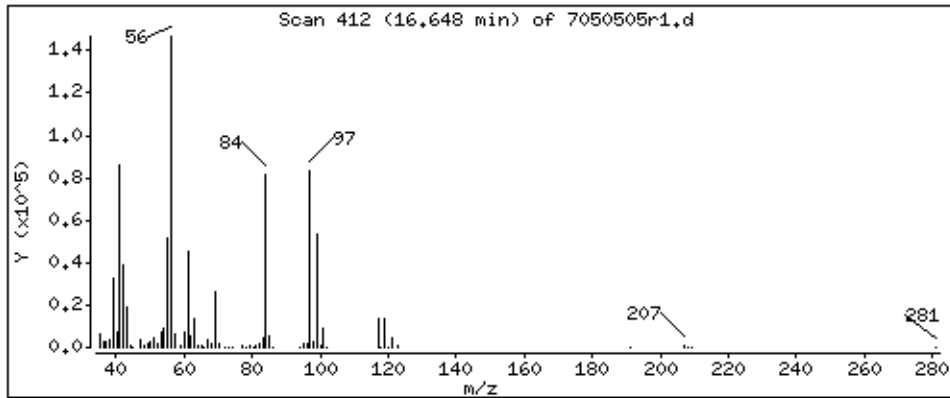
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

36 Cyclohexane

Concentration: 4.958 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

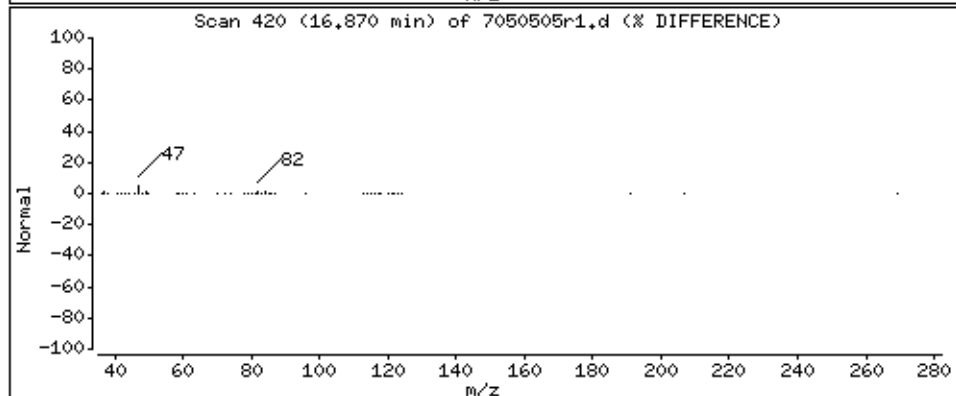
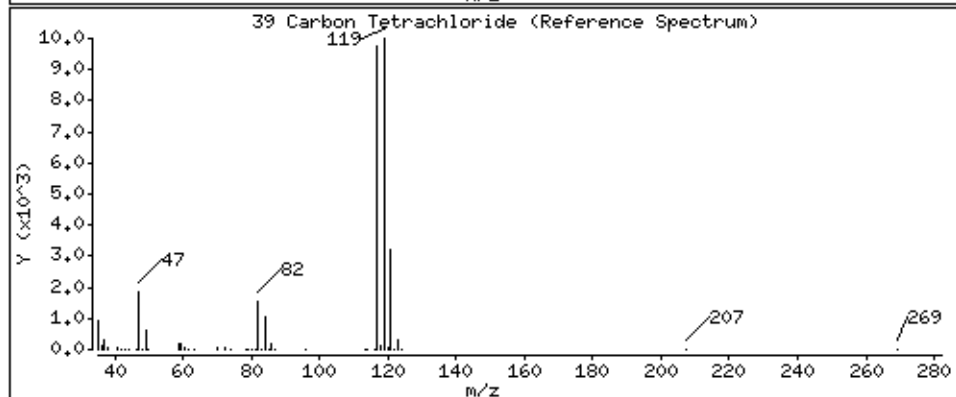
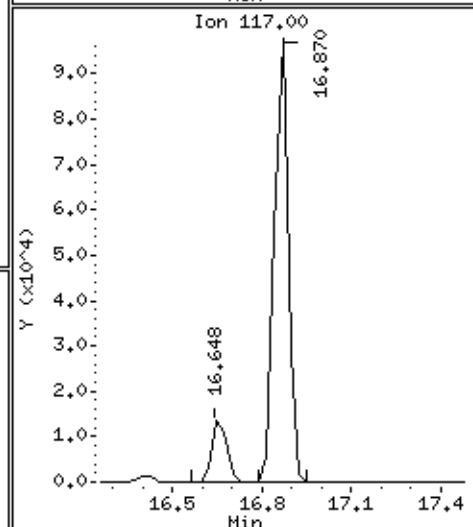
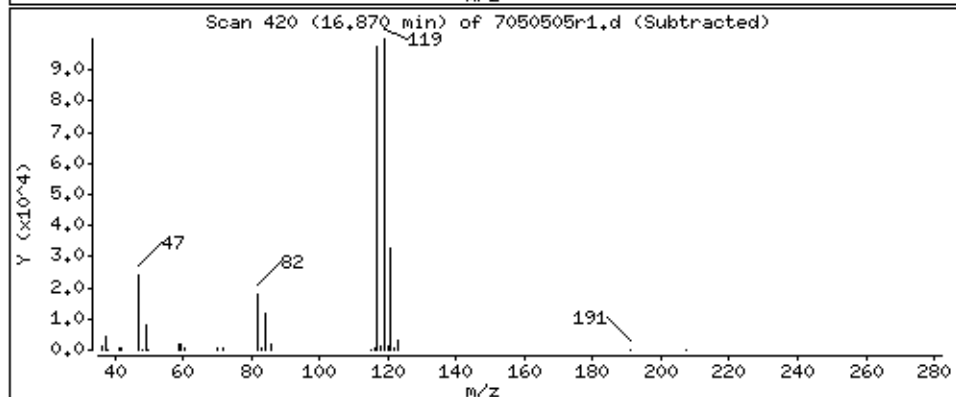
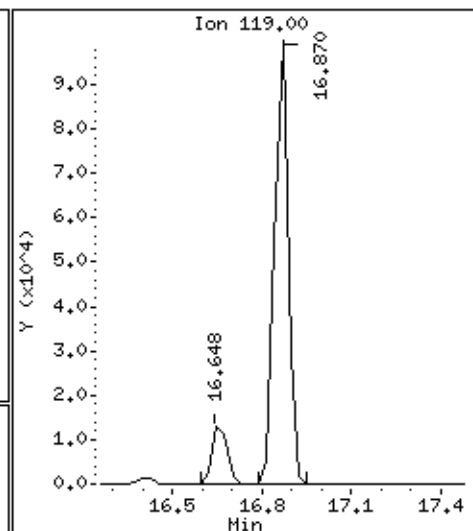
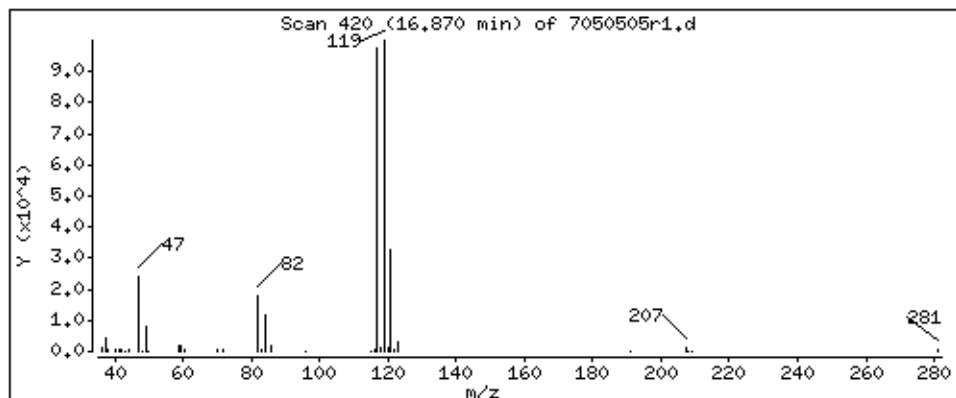
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

39 Carbon Tetrachloride

Concentration: 4.689 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

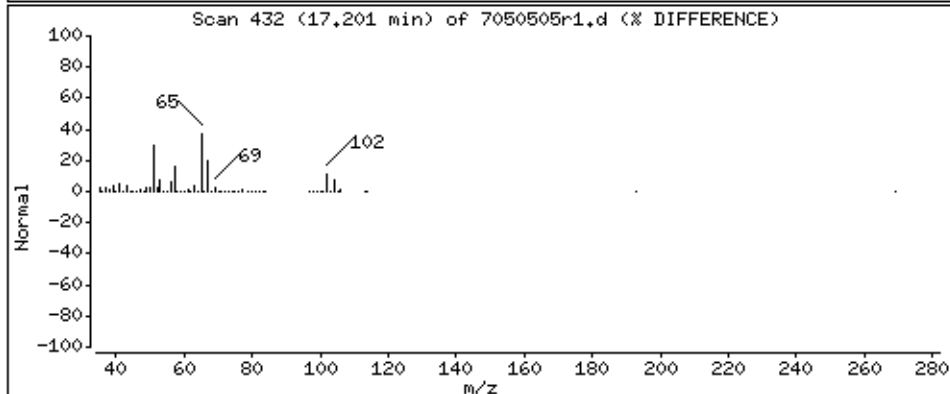
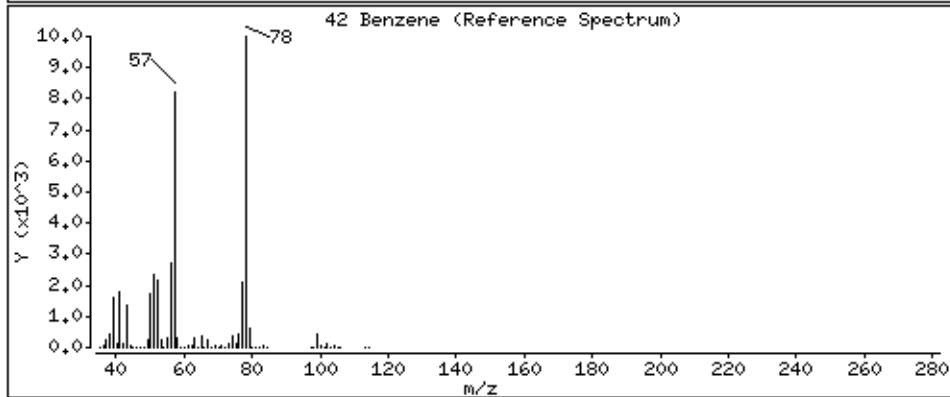
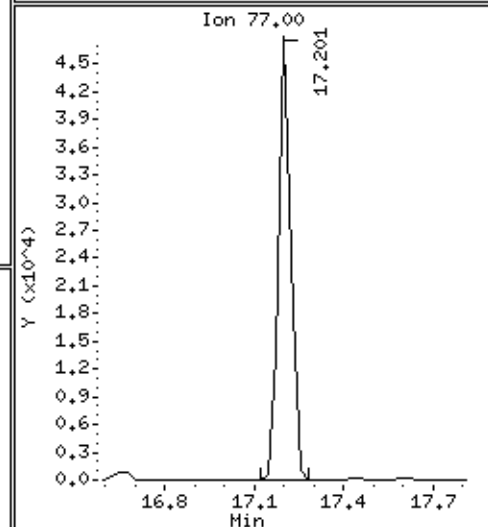
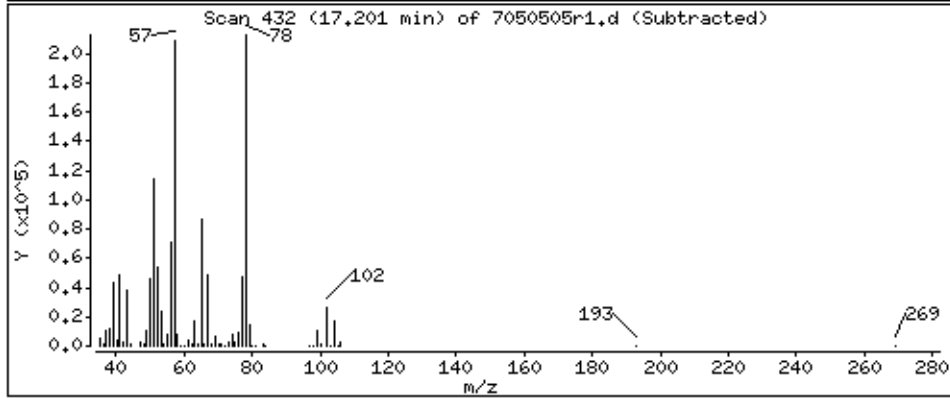
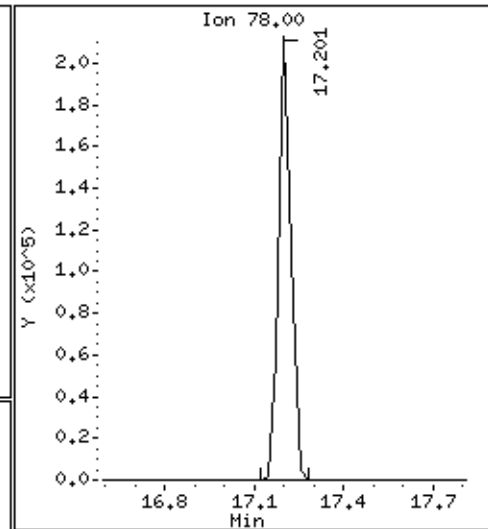
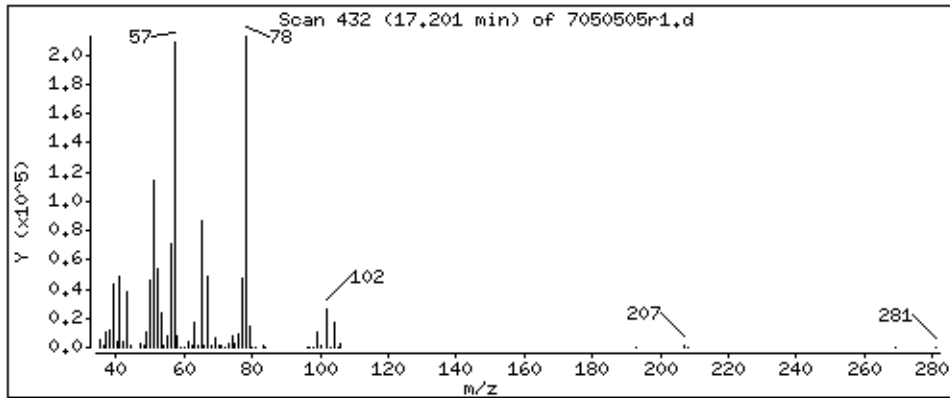
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

42 Benzene

Concentration: 4.110 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

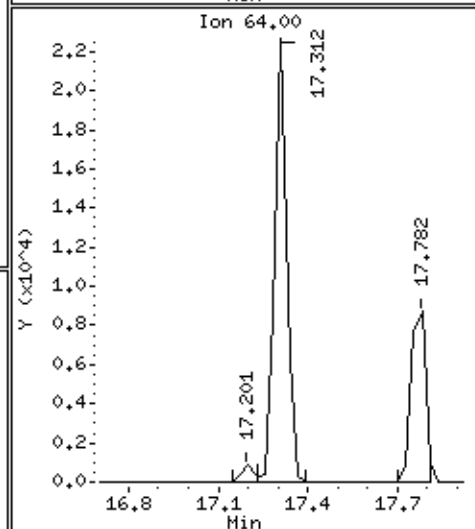
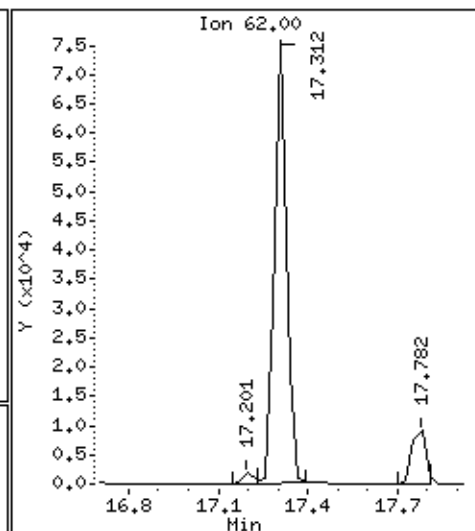
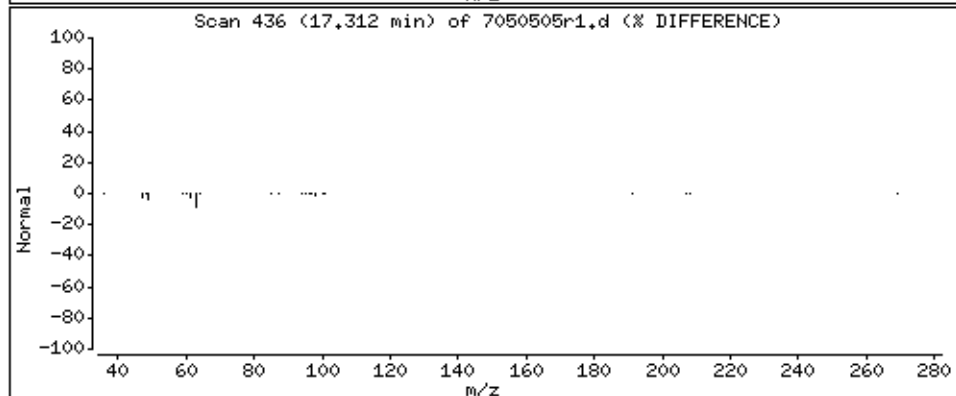
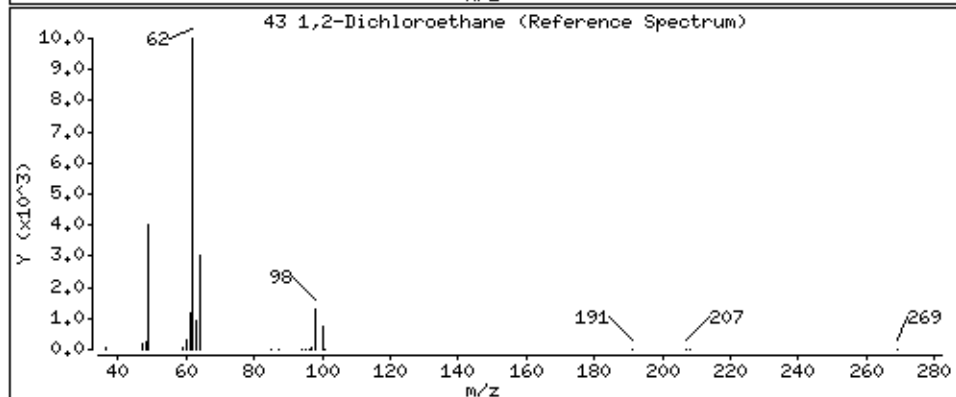
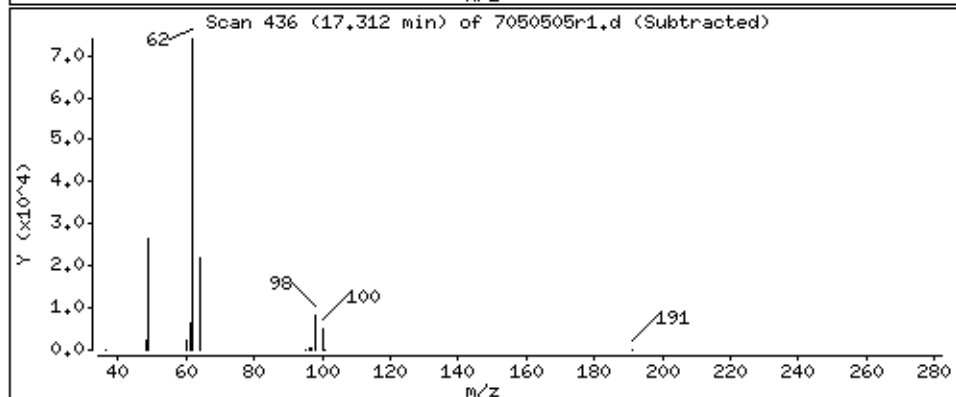
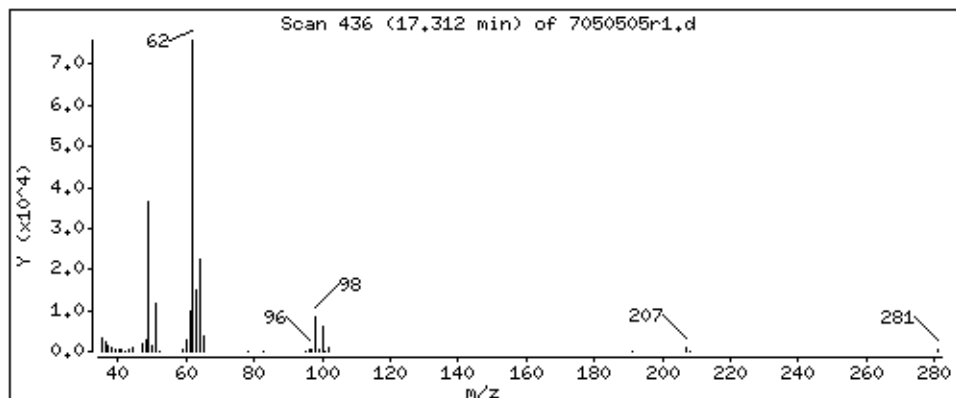
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

43 1,2-Dichloroethane

Concentration: 4.407 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

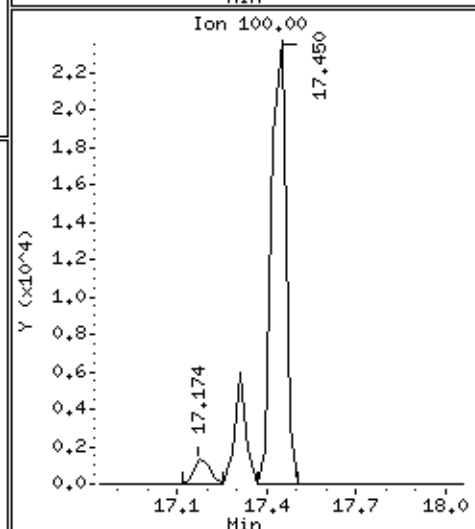
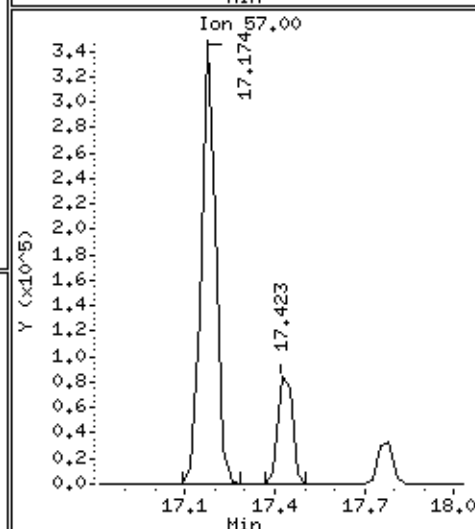
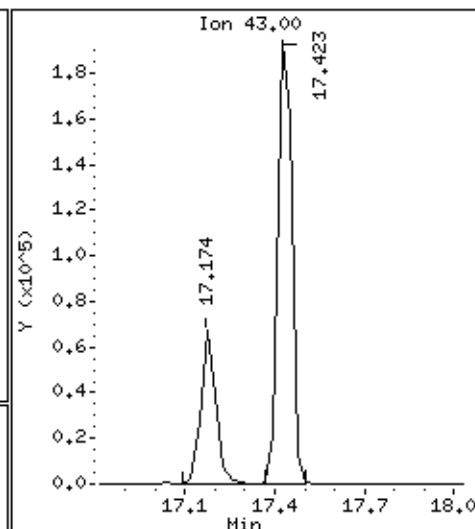
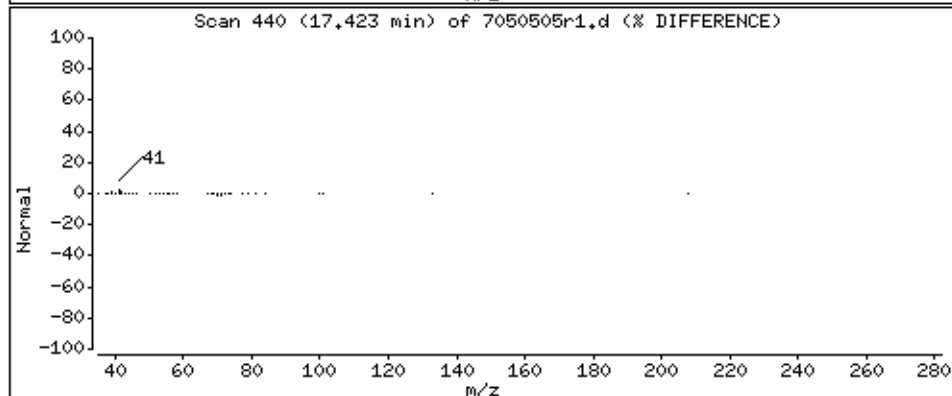
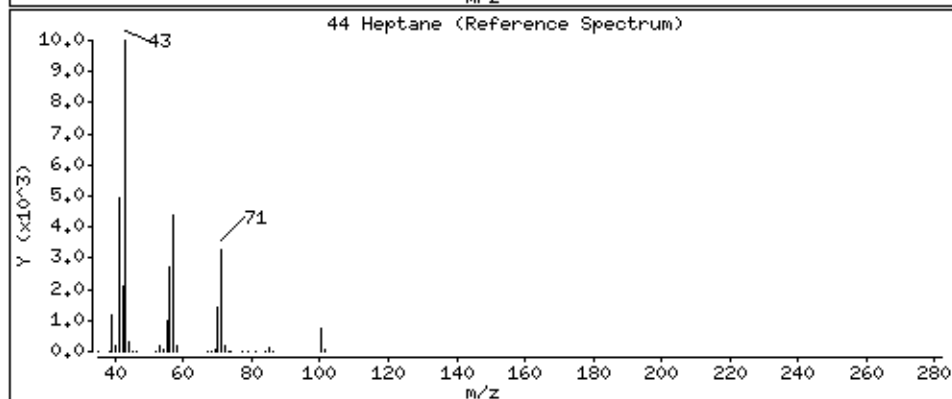
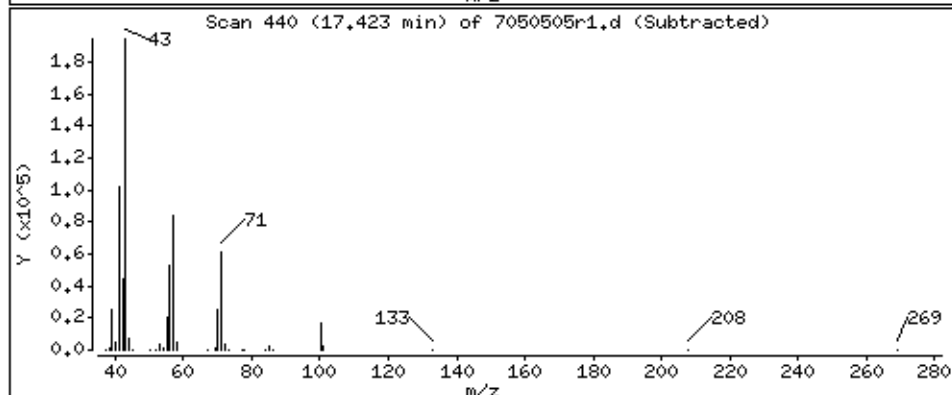
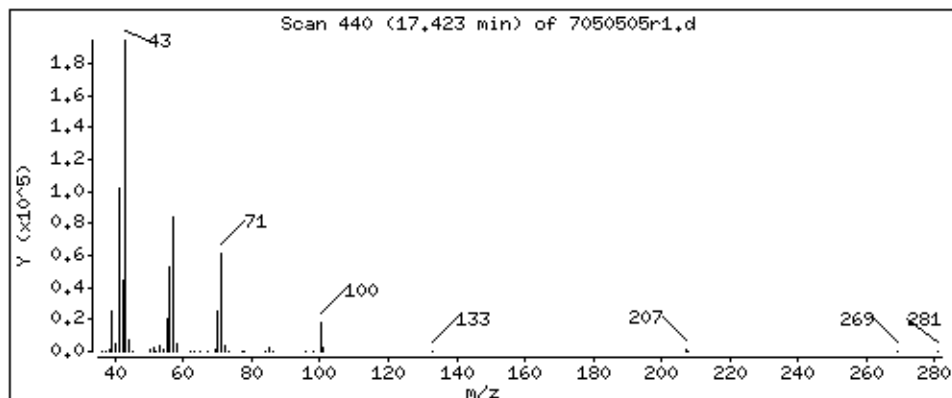
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

44 Heptane

Concentration: 5.098 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

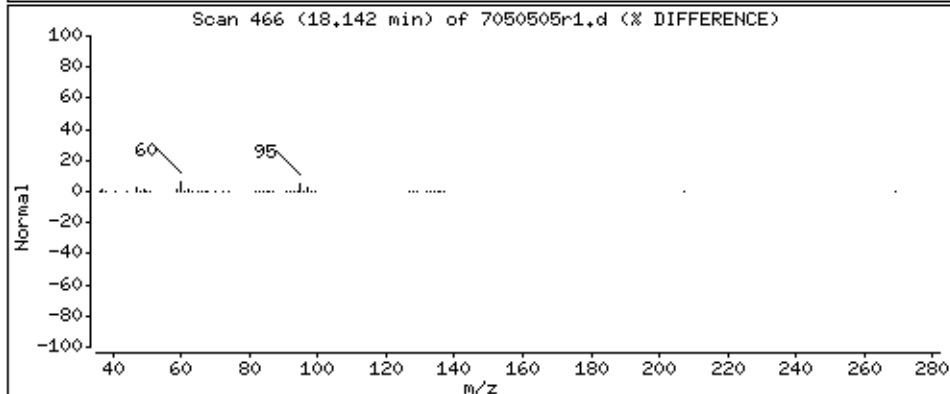
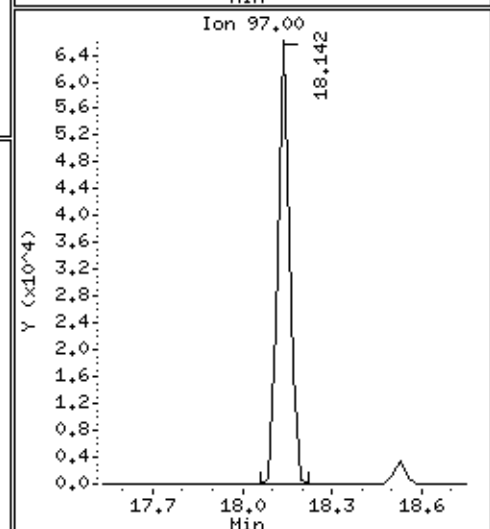
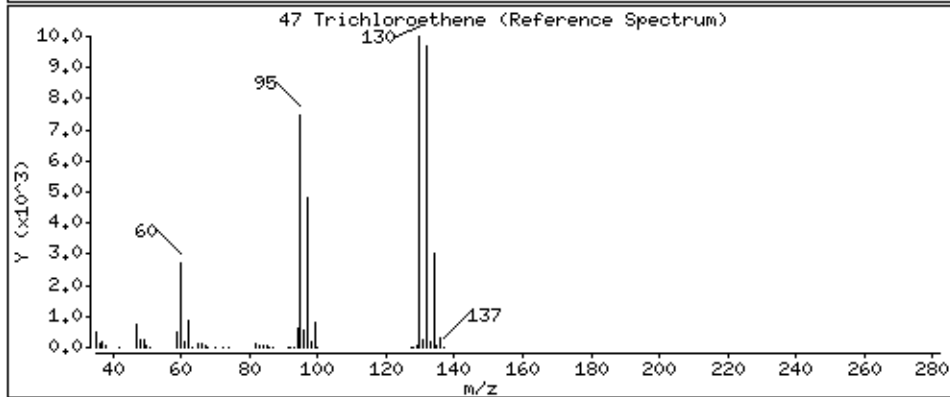
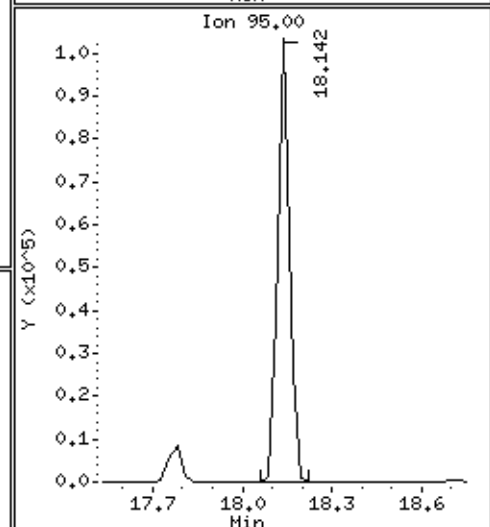
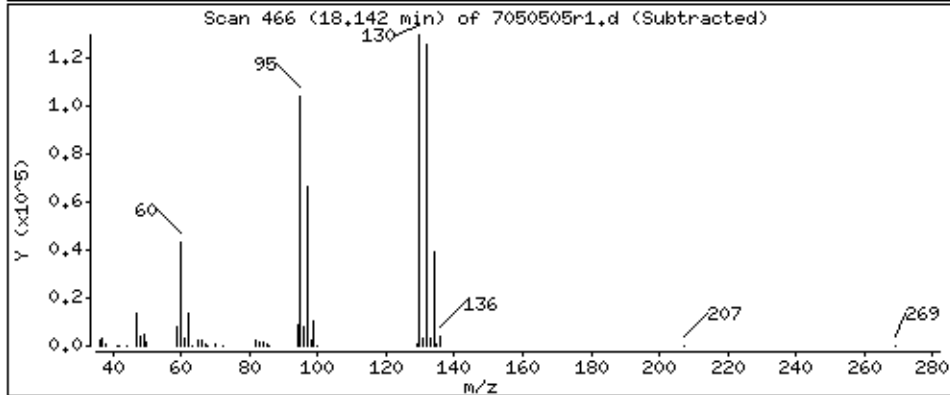
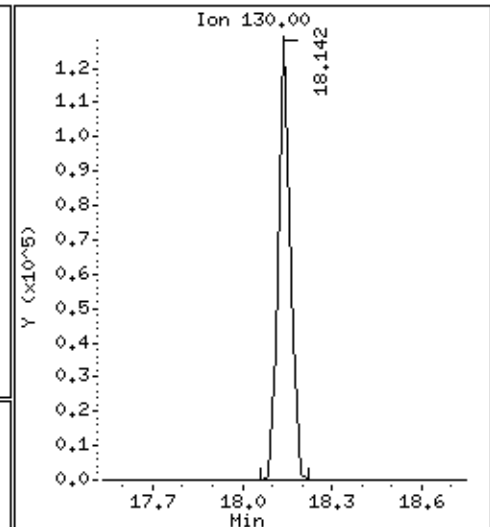
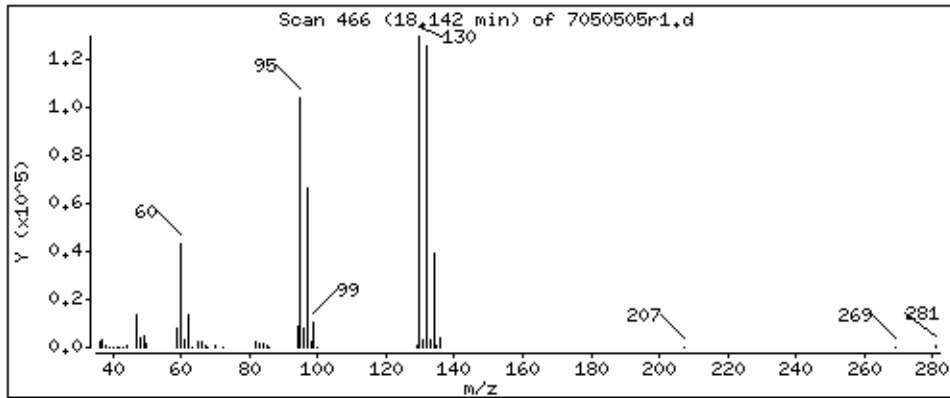
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

47 Trichloroethene

Concentration: 4.298 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

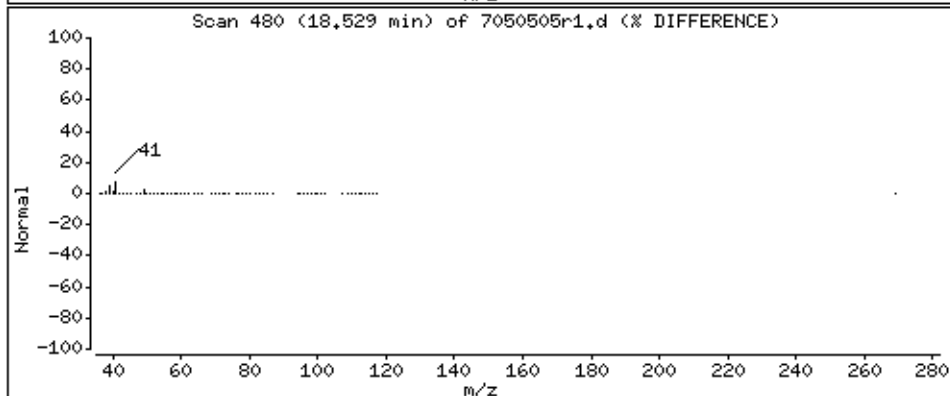
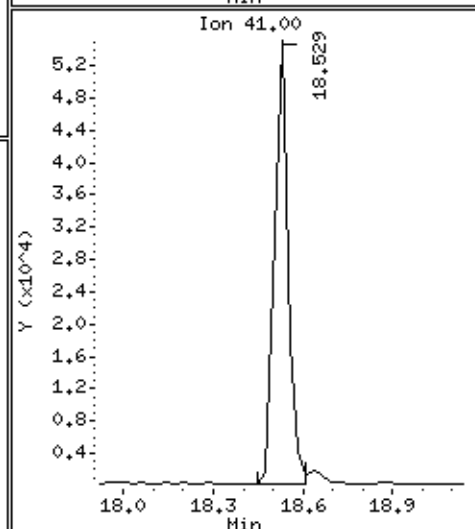
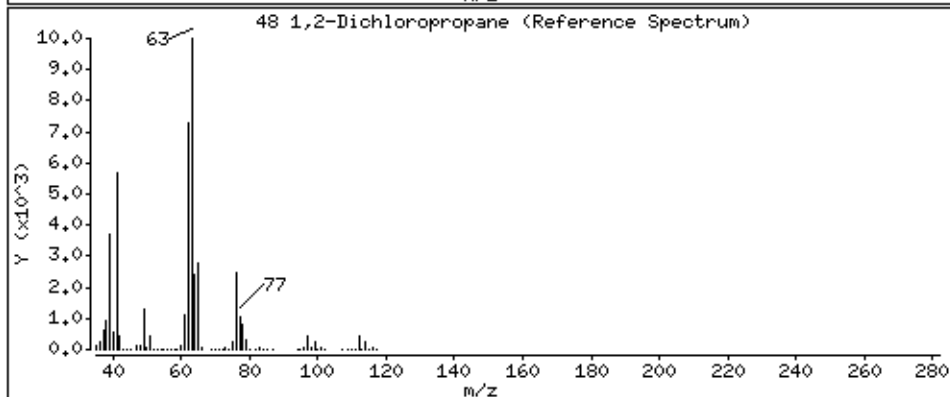
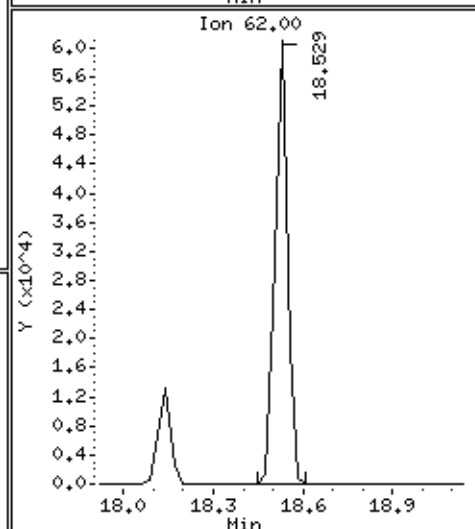
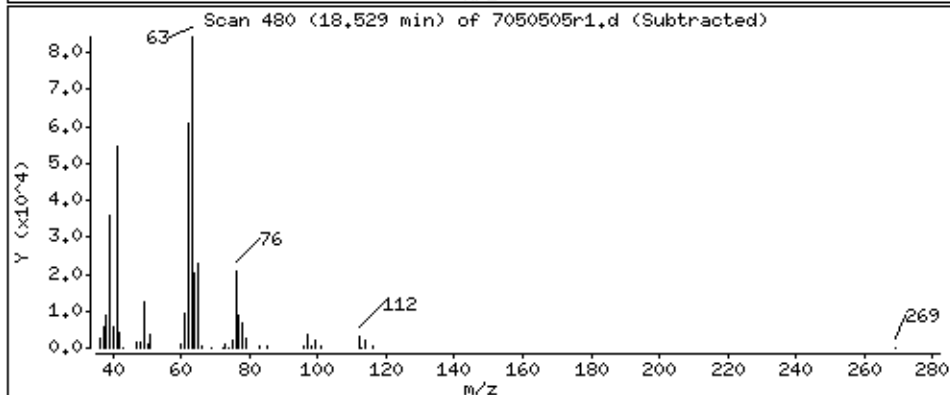
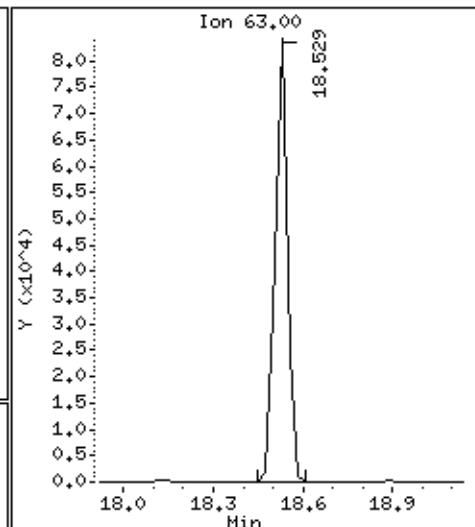
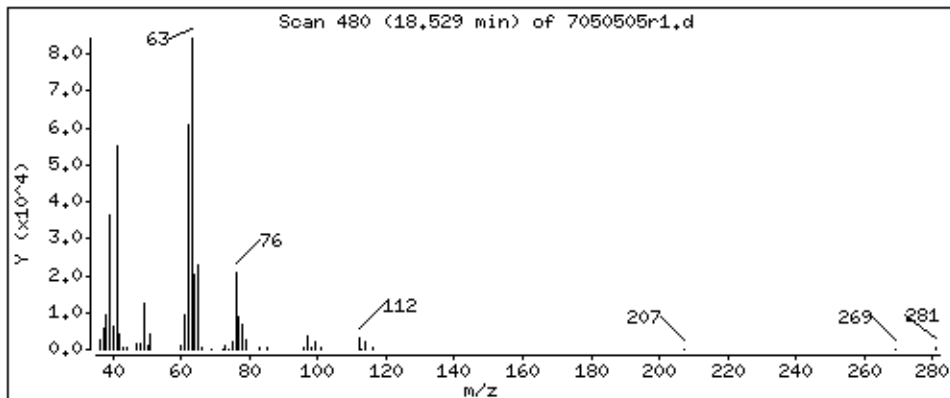
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

48 1,2-Dichloropropane

Concentration: 4.102 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

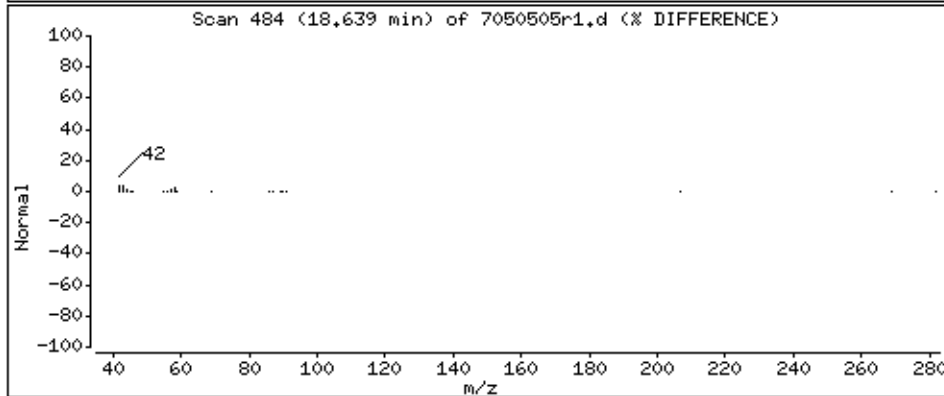
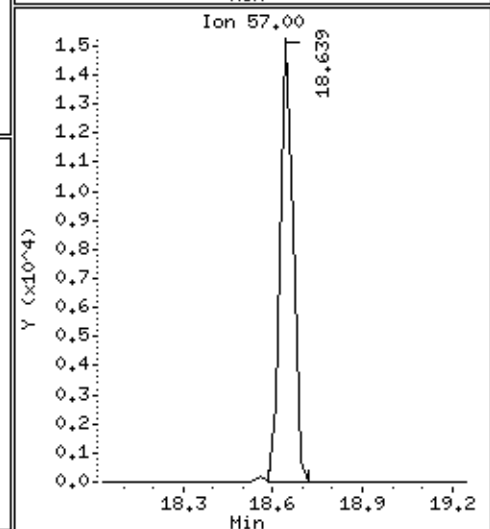
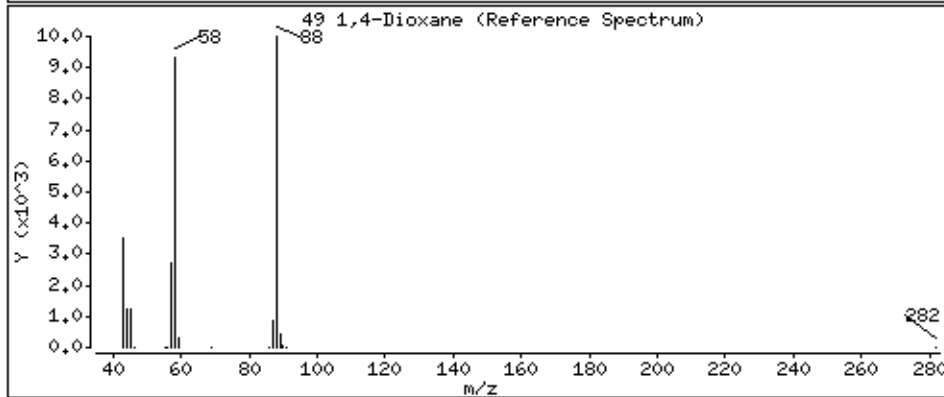
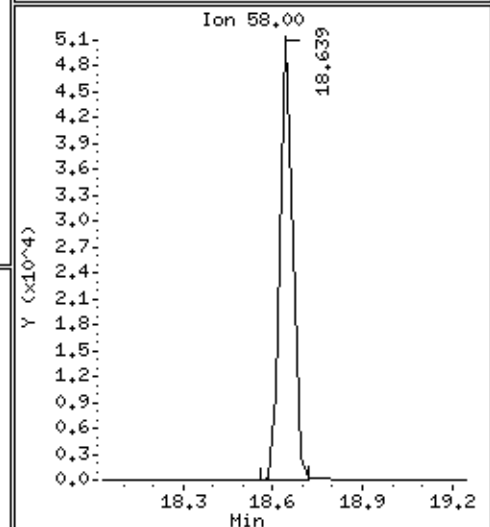
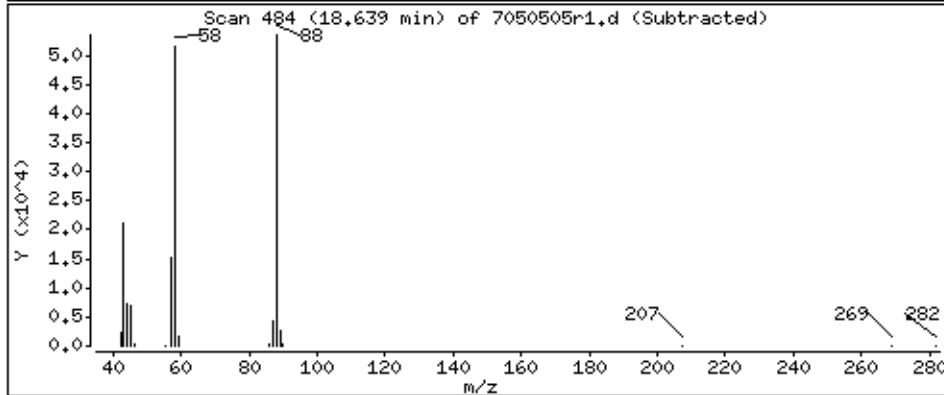
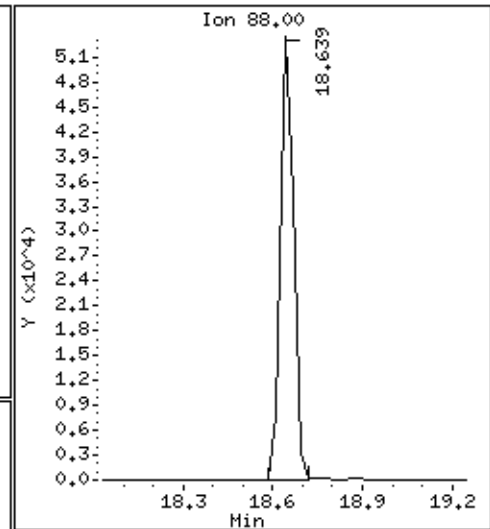
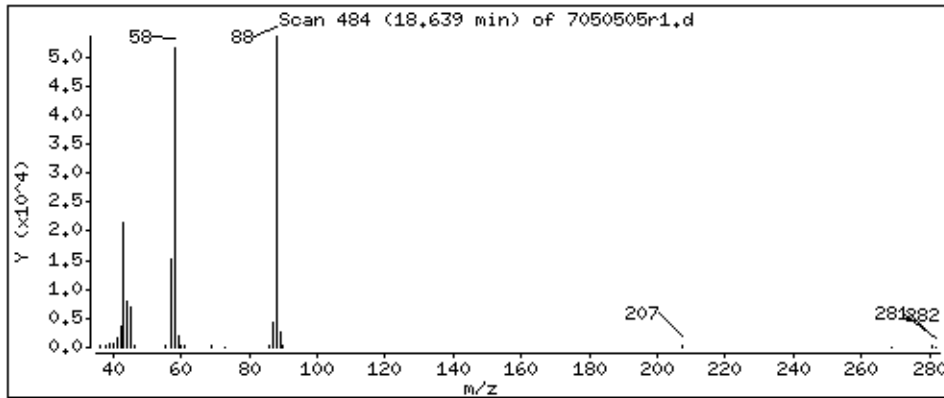
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

49 1,4-Dioxane

Concentration: 5.894 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

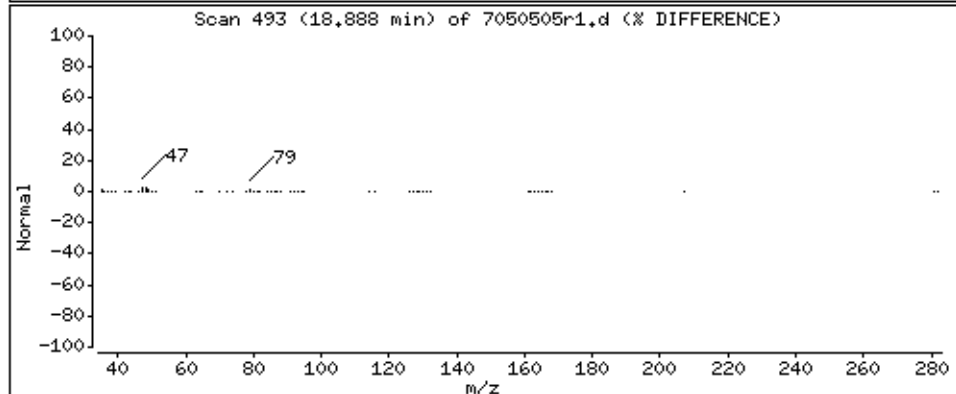
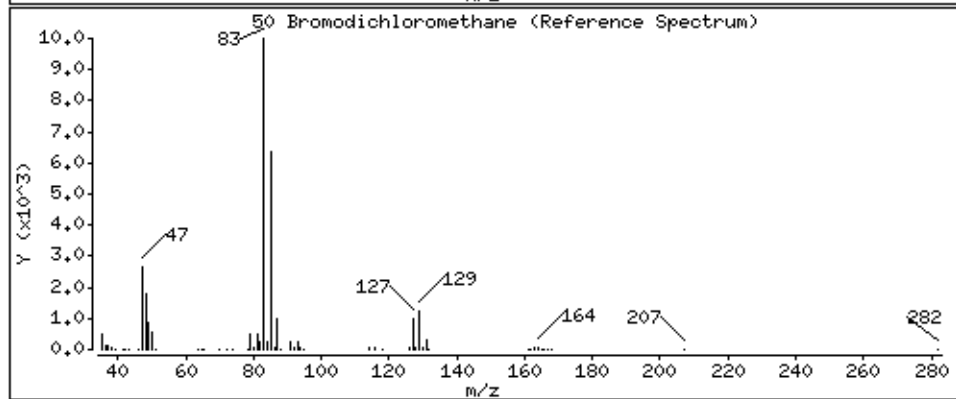
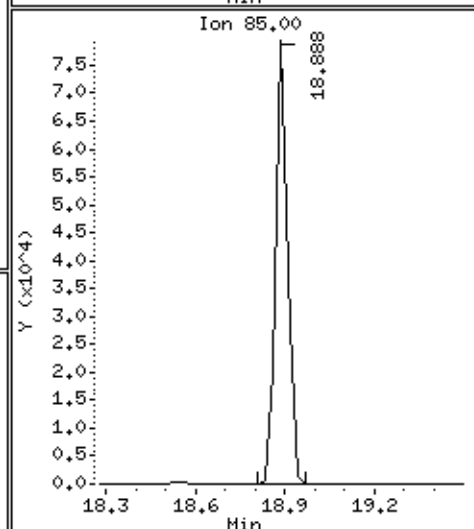
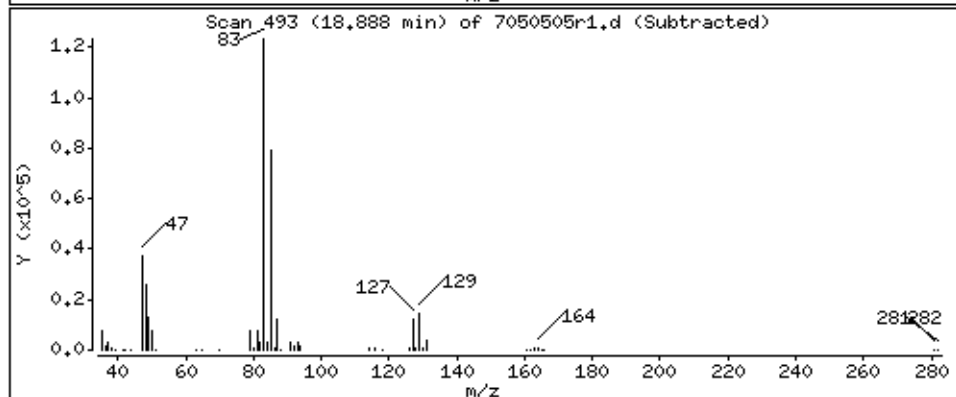
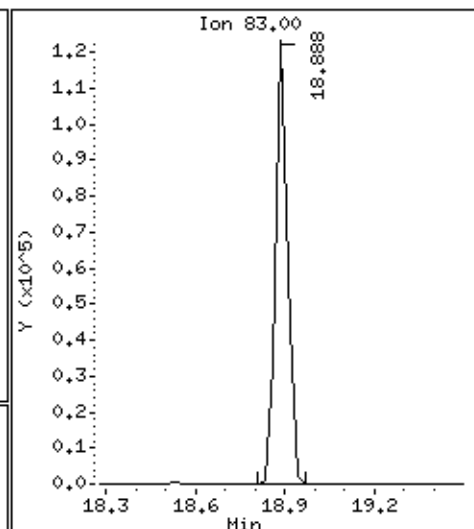
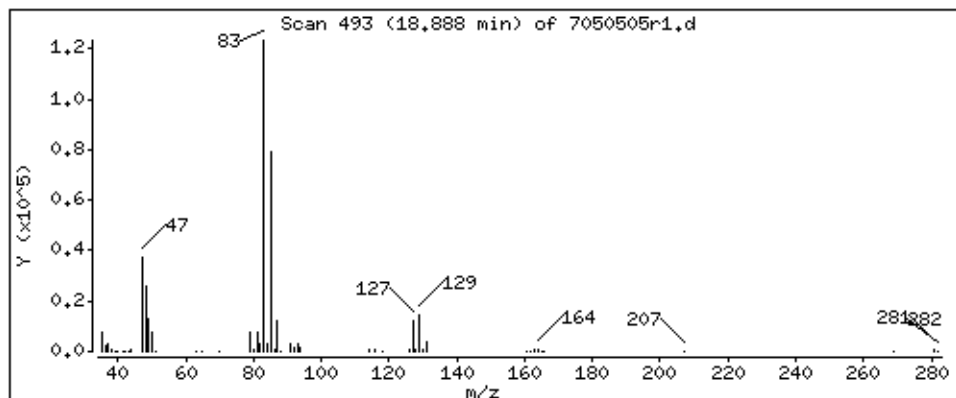
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

50 Bromodichloromethane

Concentration: 4.843 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

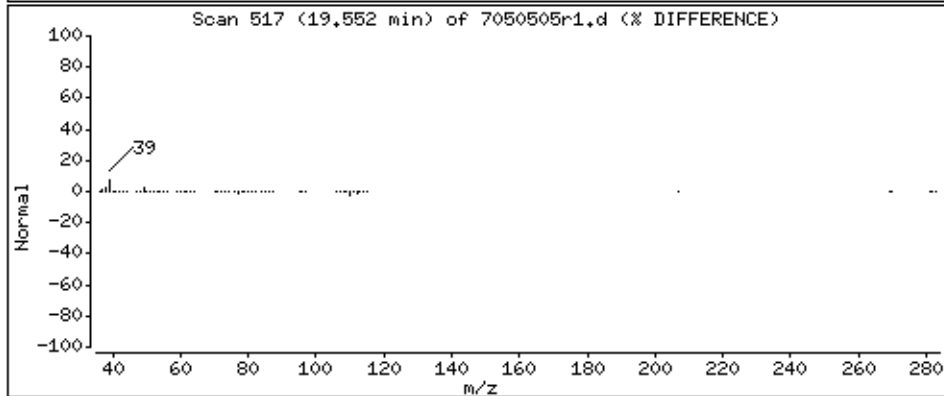
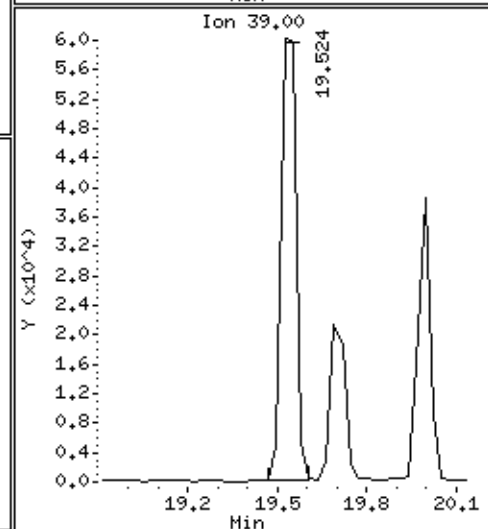
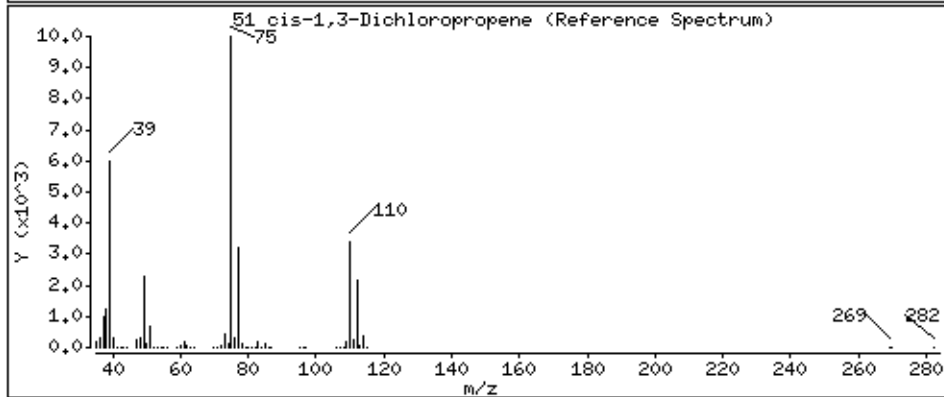
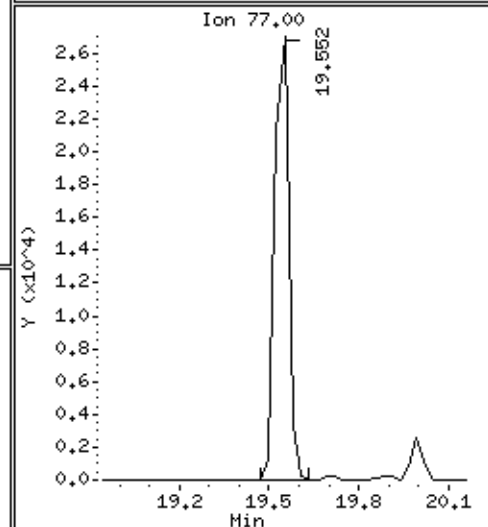
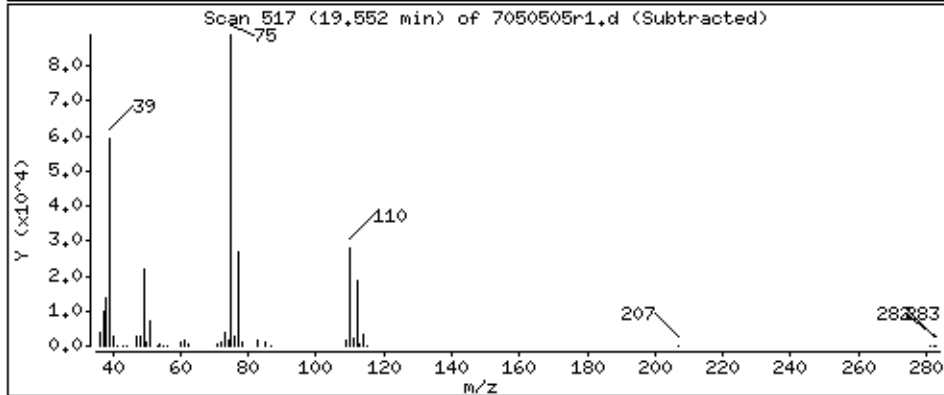
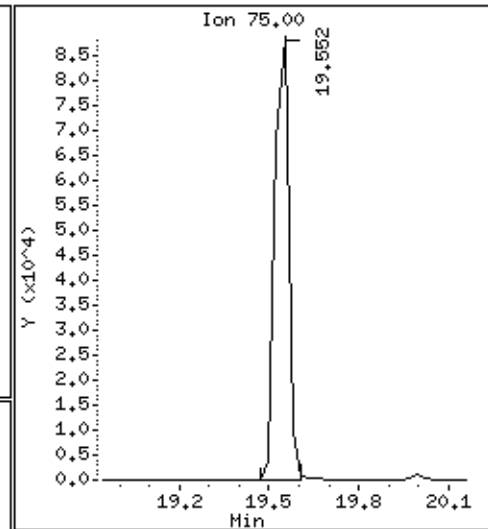
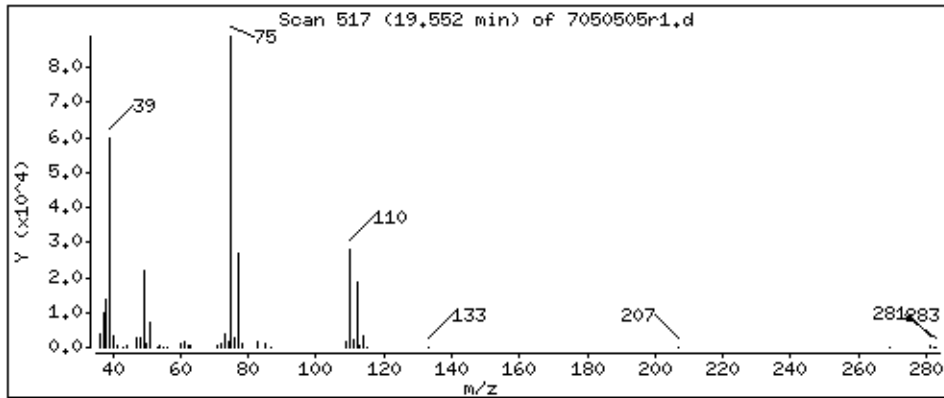
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

51 cis-1,3-Dichloropropene

Concentration: 4.574 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

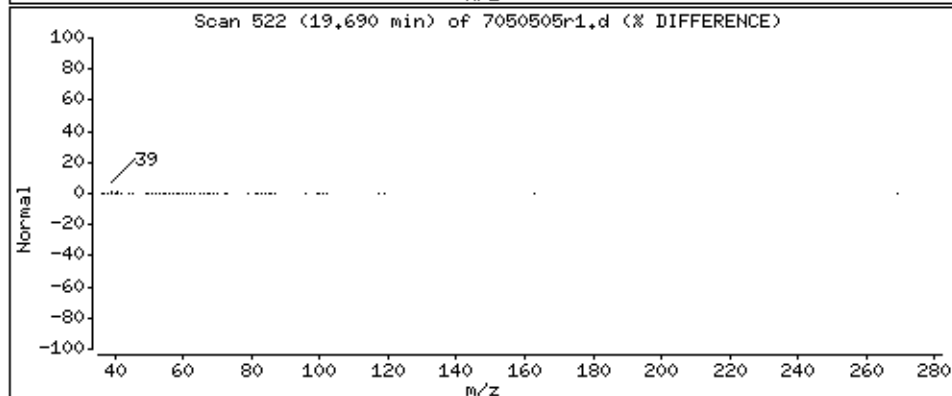
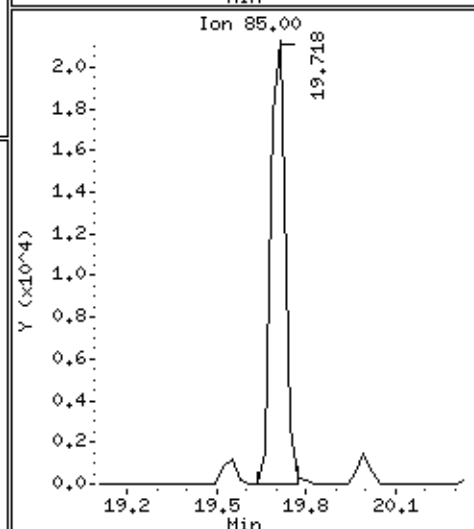
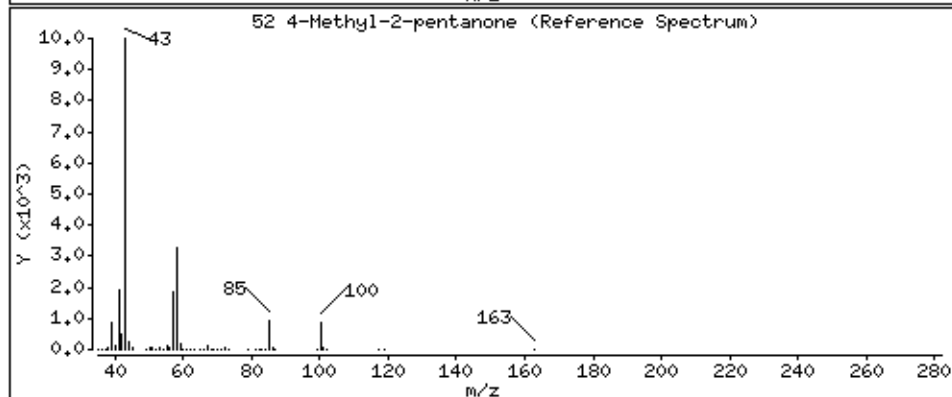
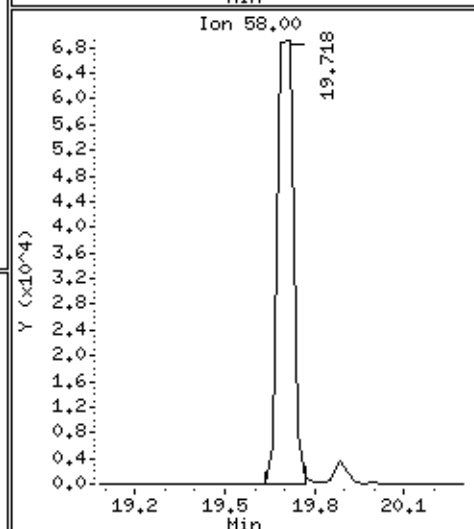
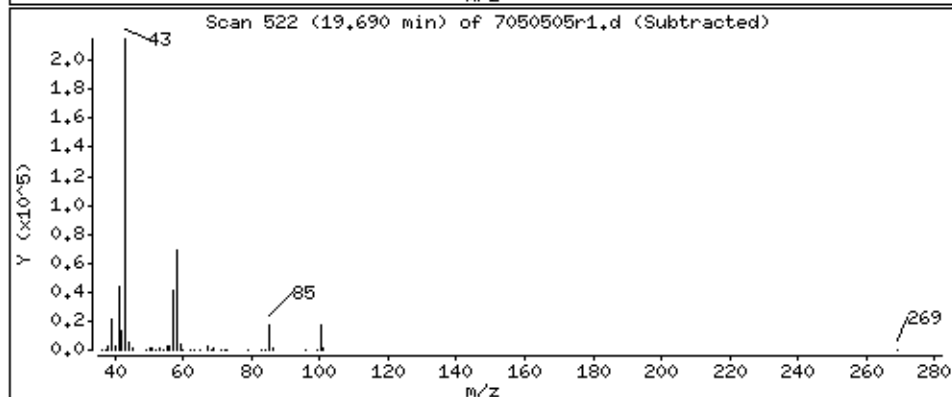
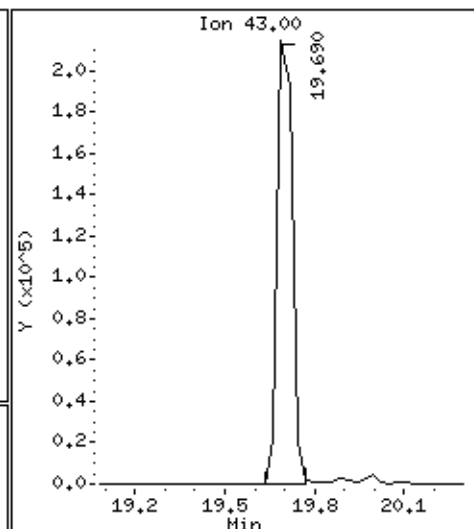
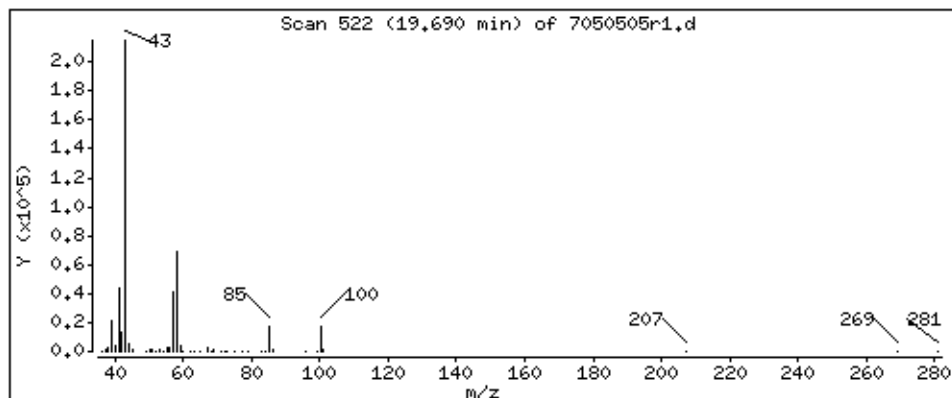
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

52 4-Methyl-2-pentanone

Concentration: 4.598 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

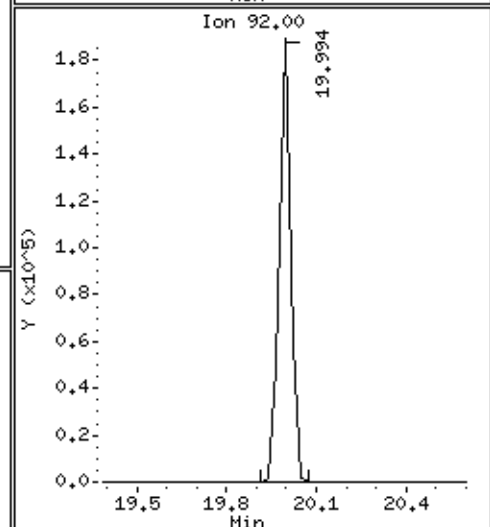
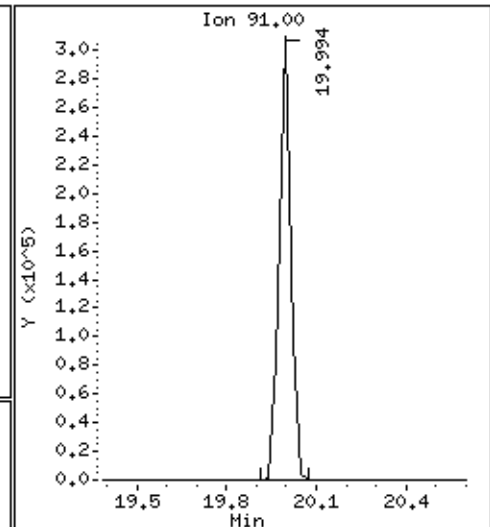
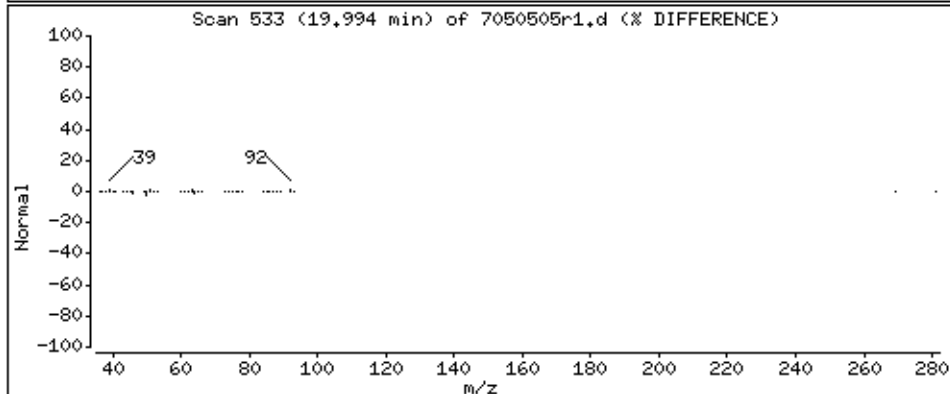
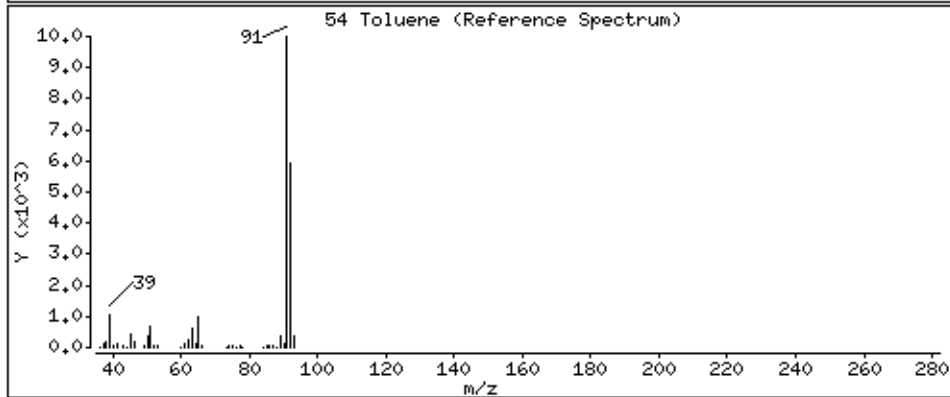
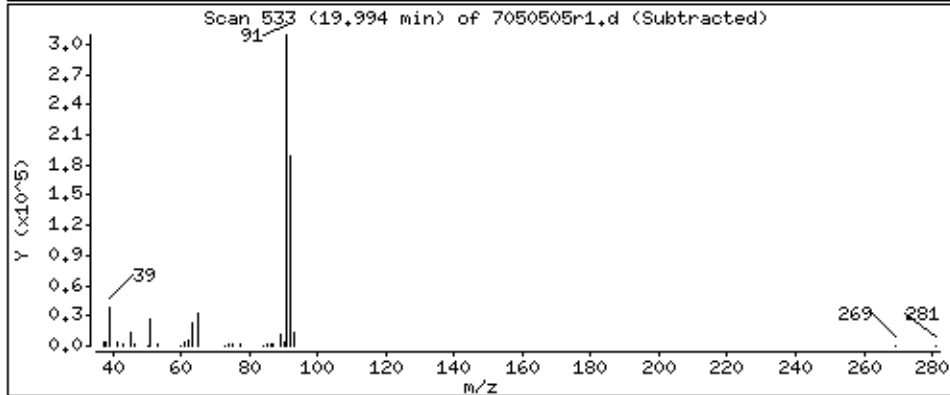
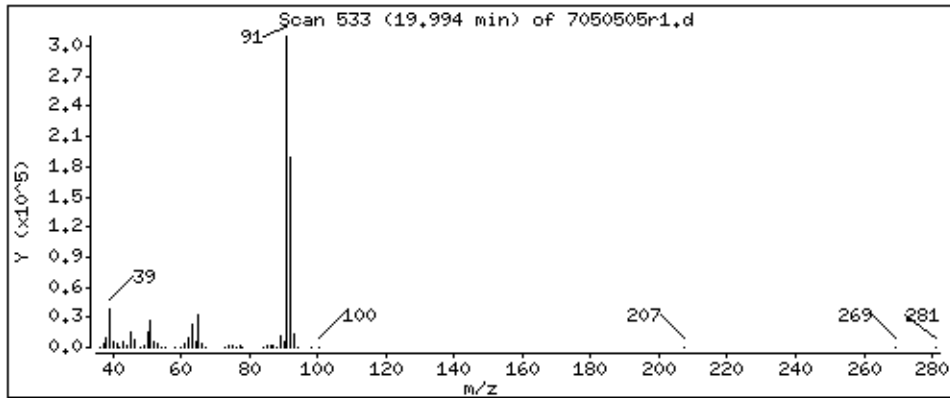
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

54 Toluene

Concentration: 4.570 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

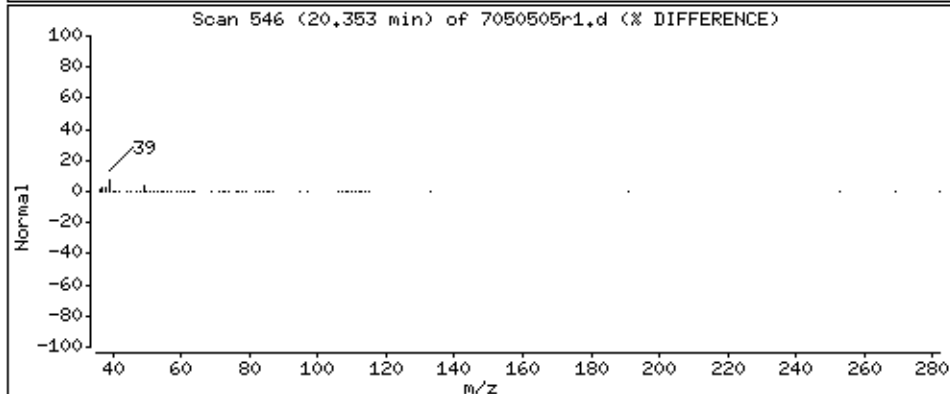
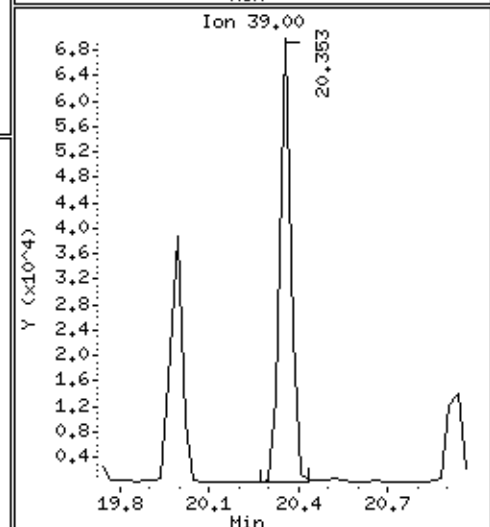
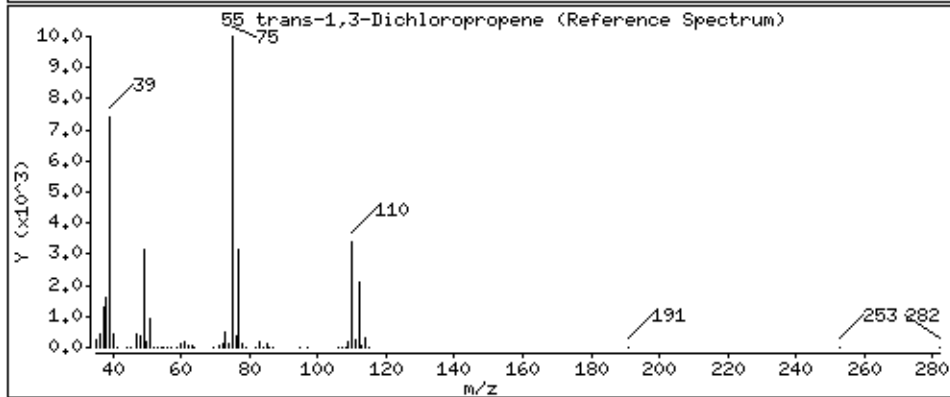
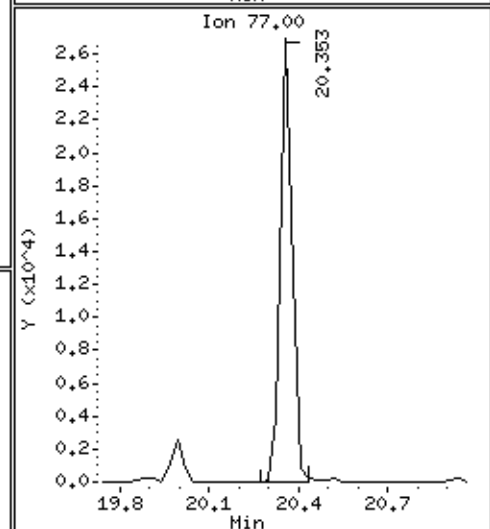
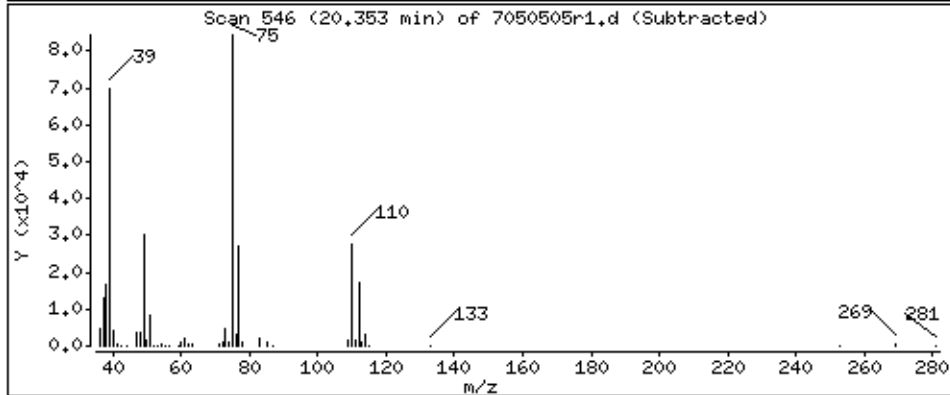
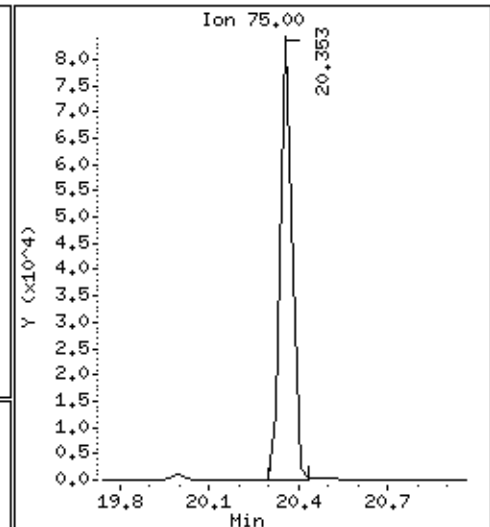
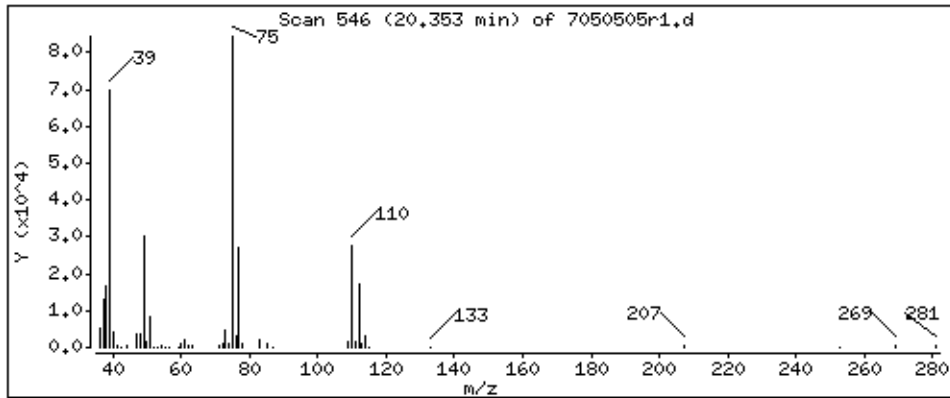
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

55 trans-1,3-Dichloropropene

Concentration: 5.154 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

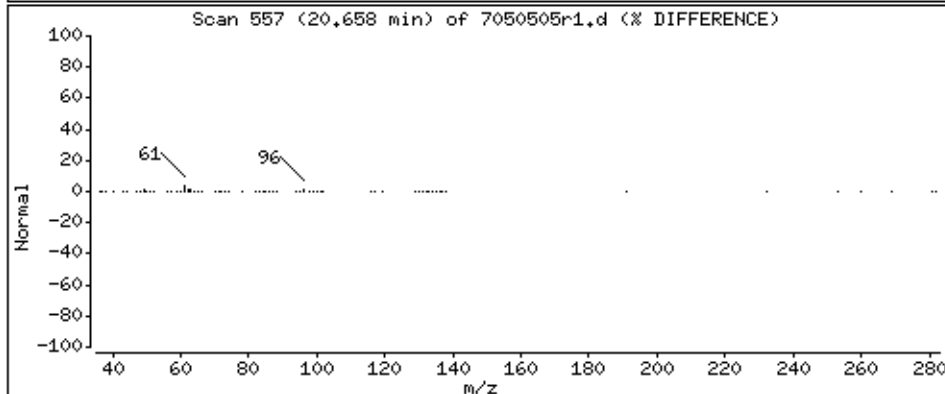
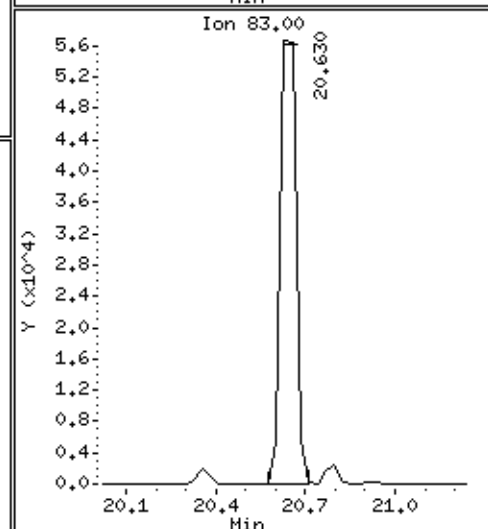
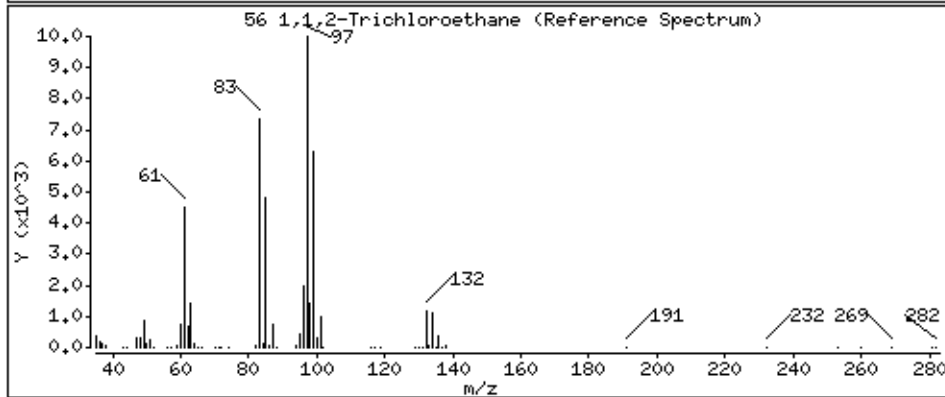
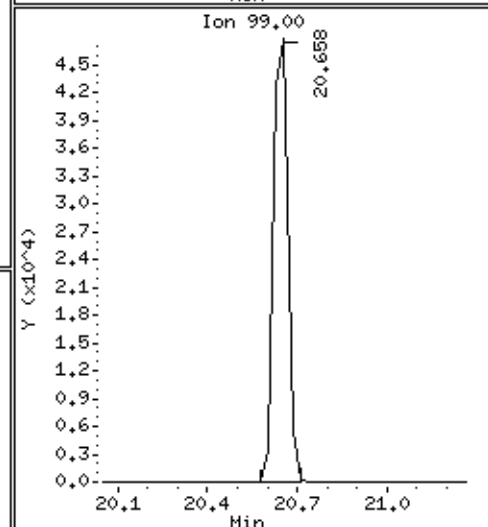
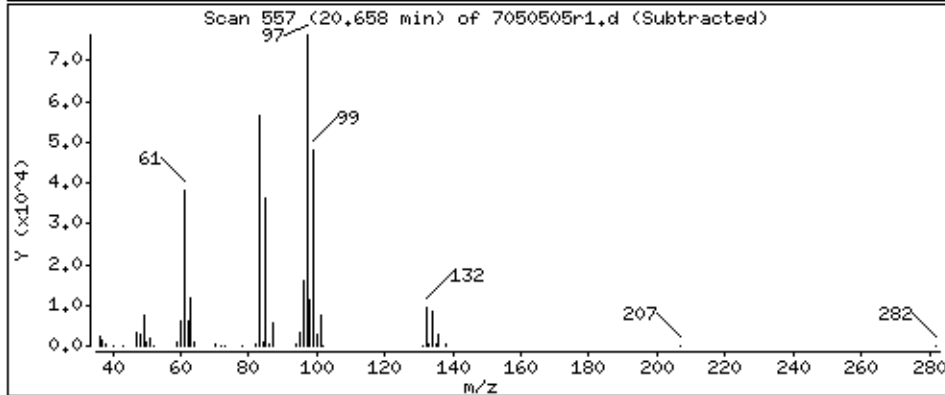
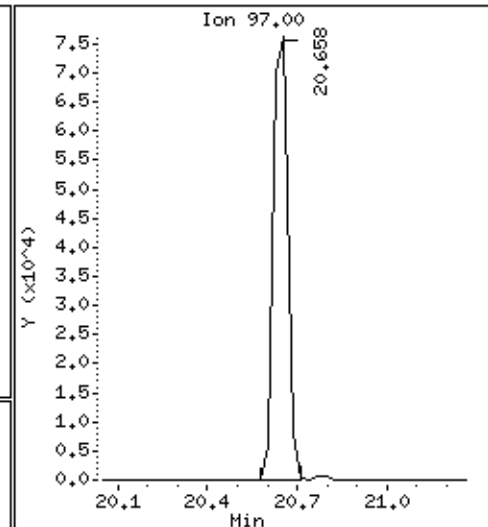
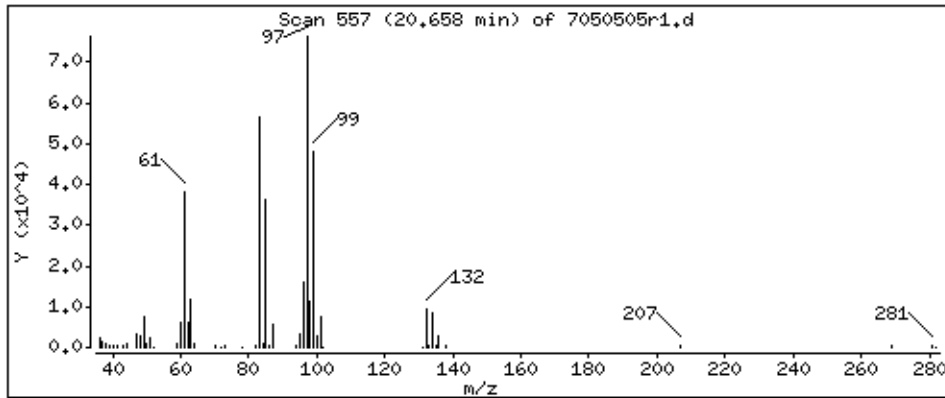
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

56 1,1,2-Trichloroethane

Concentration: 4.702 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

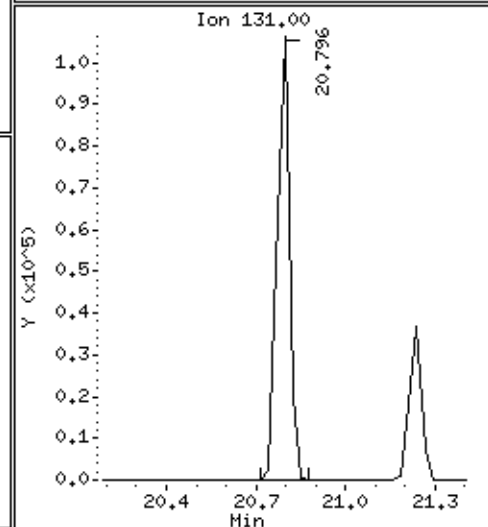
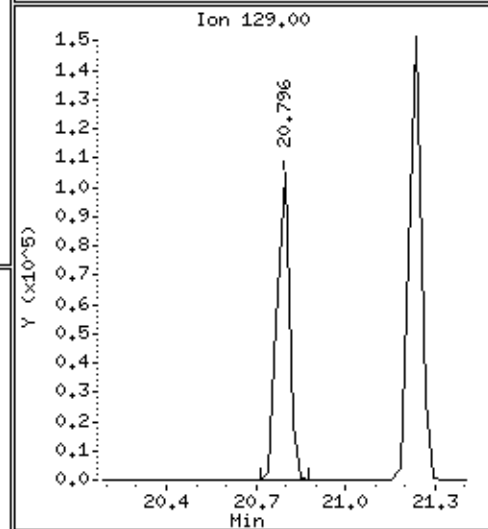
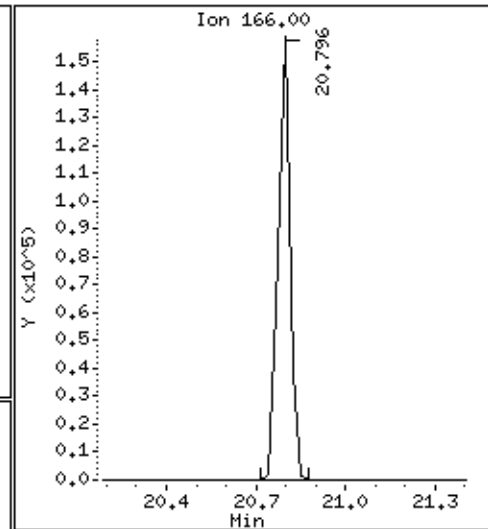
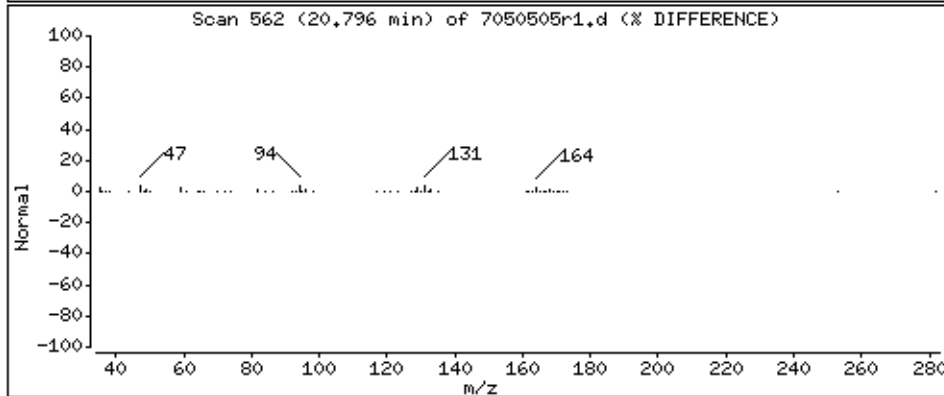
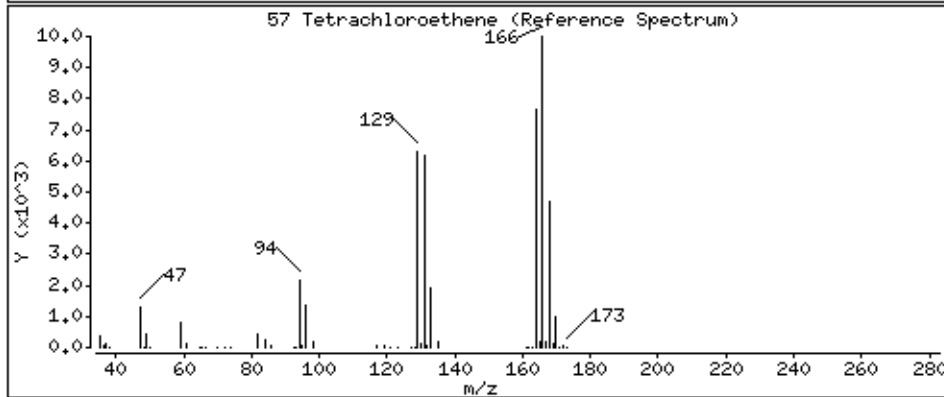
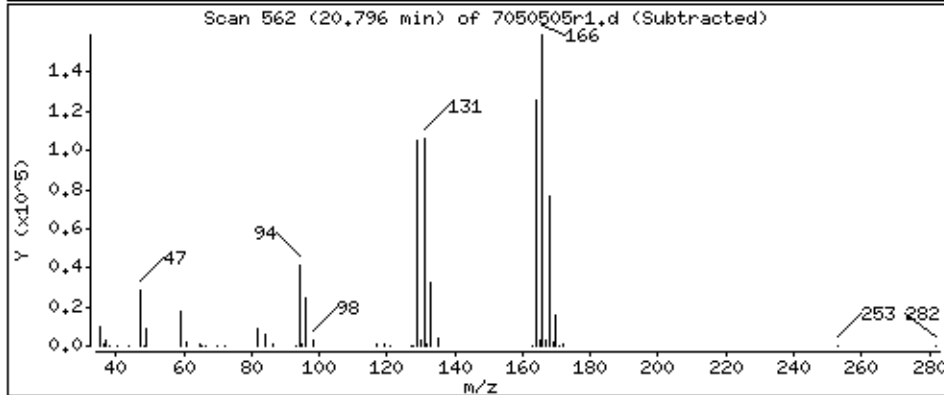
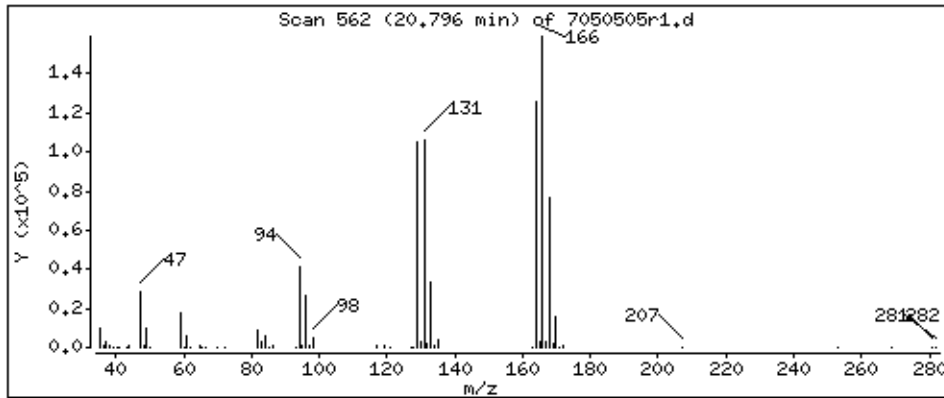
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

57 Tetrachloroethene

Concentration: 4.706 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

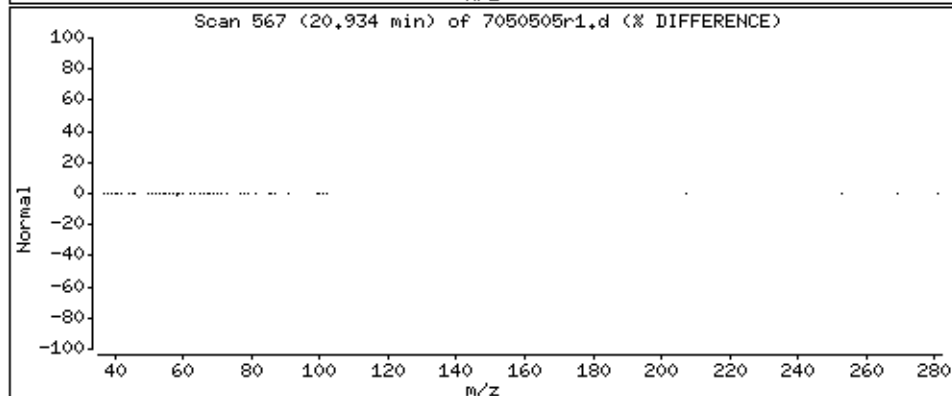
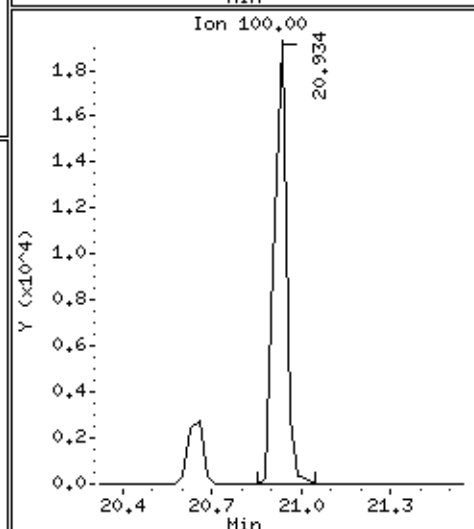
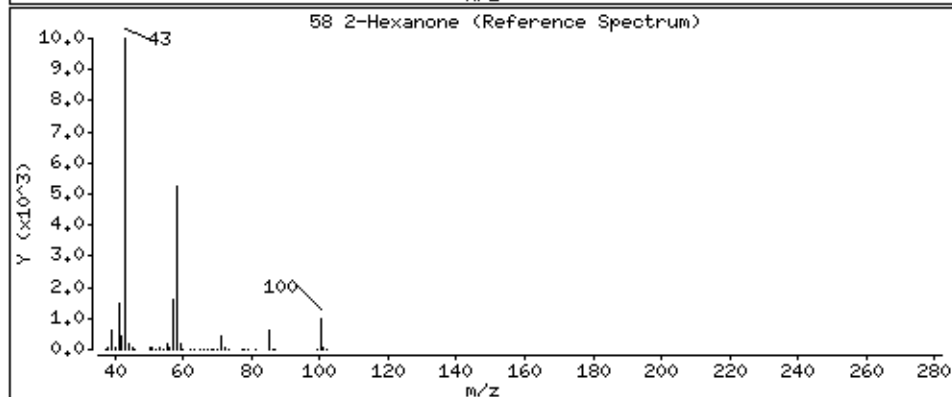
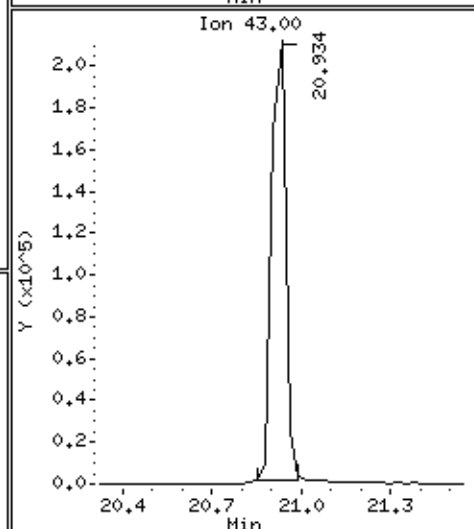
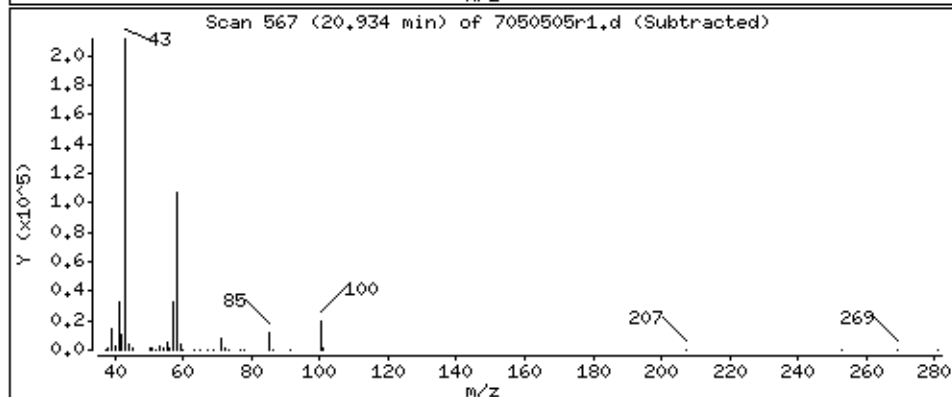
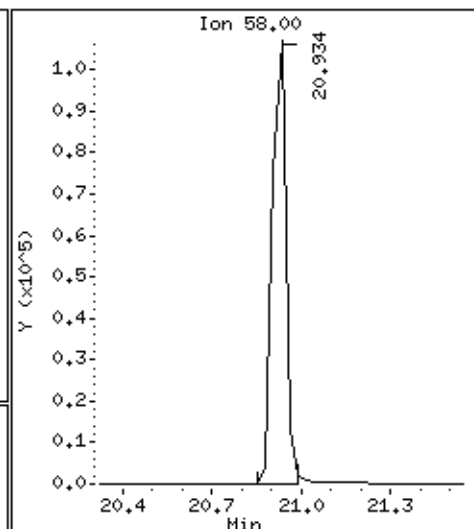
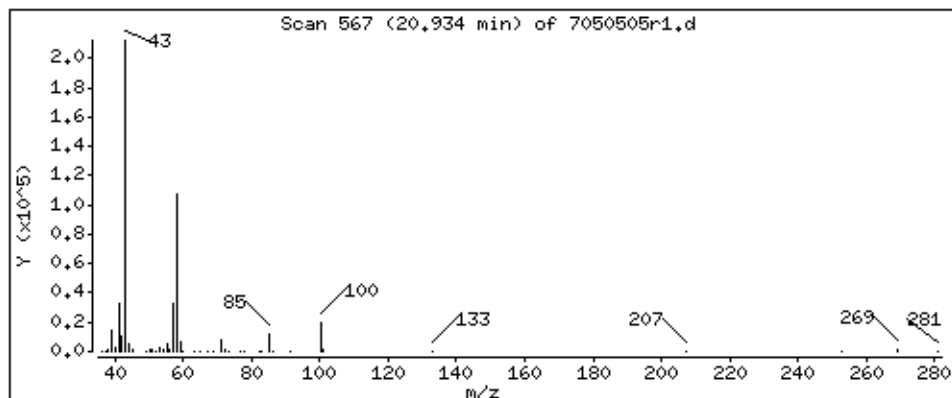
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

58 2-Hexanone

Concentration: 4.488 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

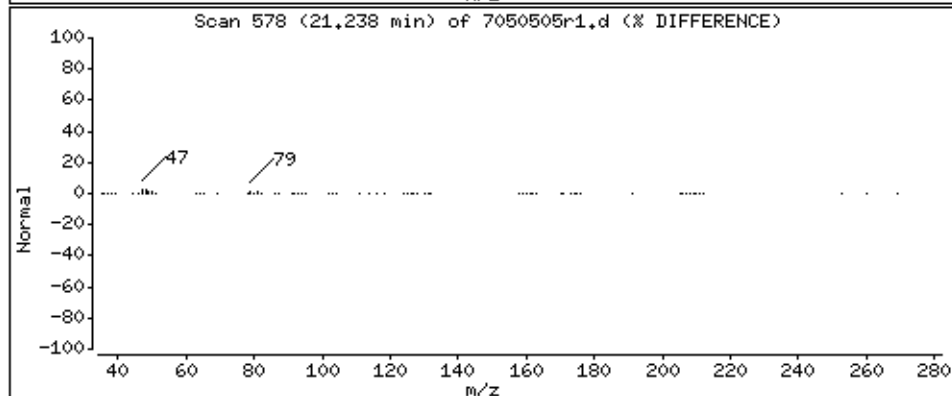
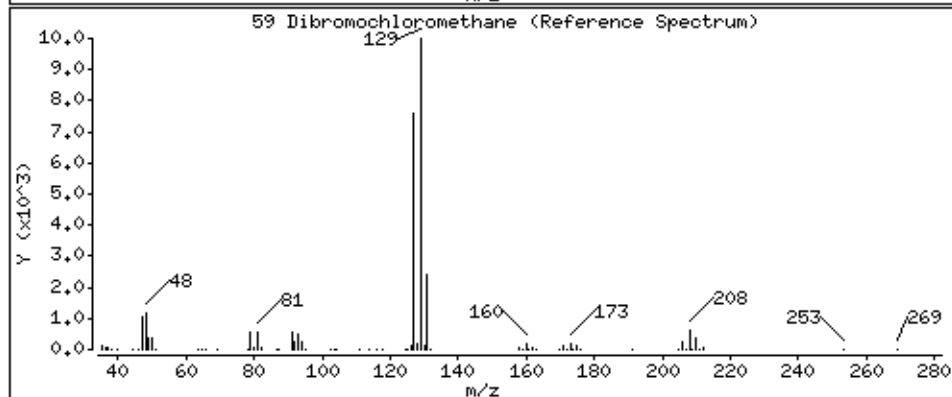
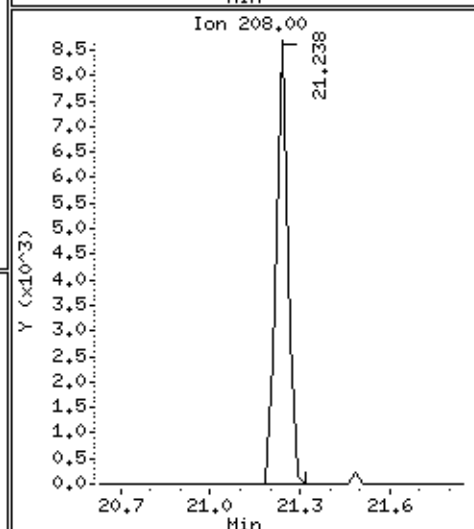
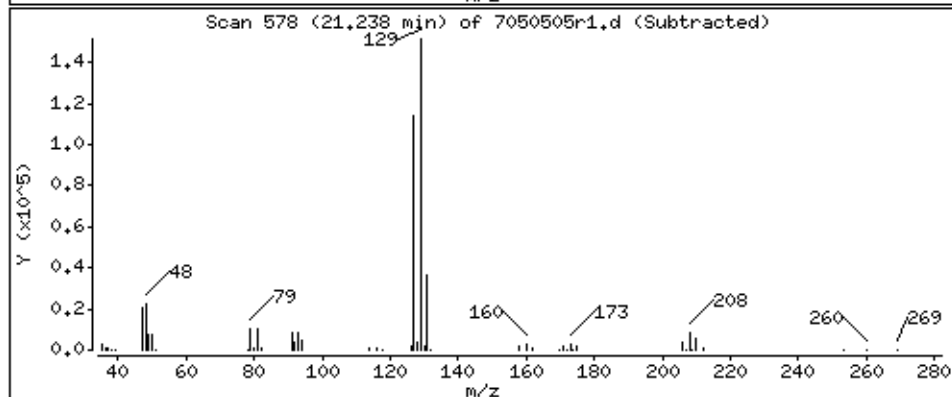
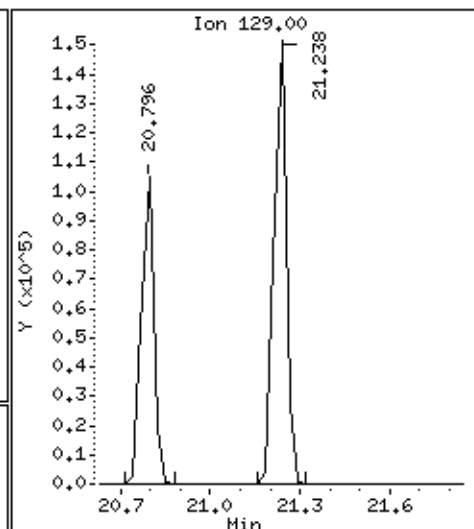
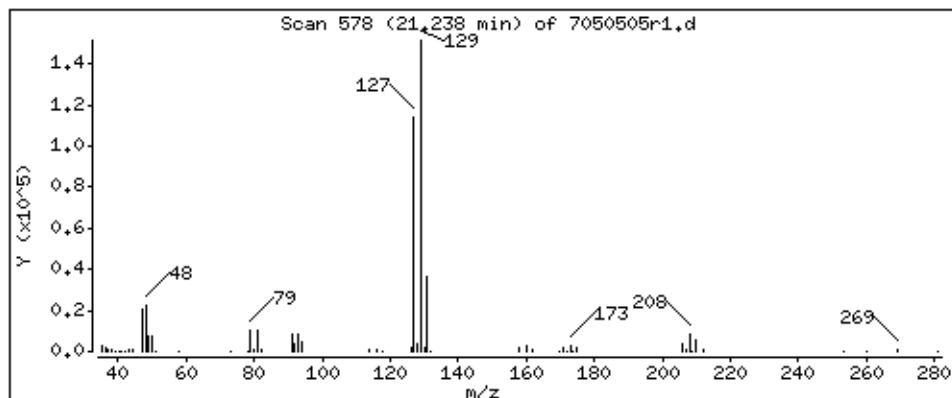
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

59 Dibromochloromethane

Concentration: 5.409 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

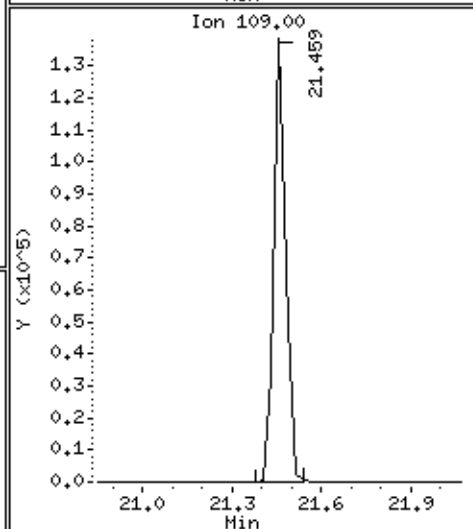
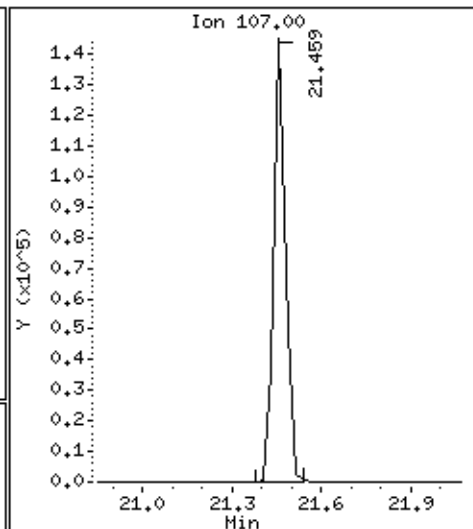
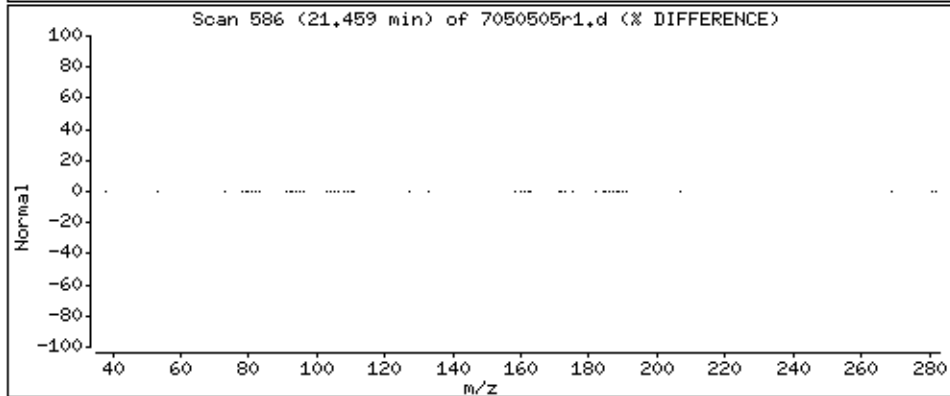
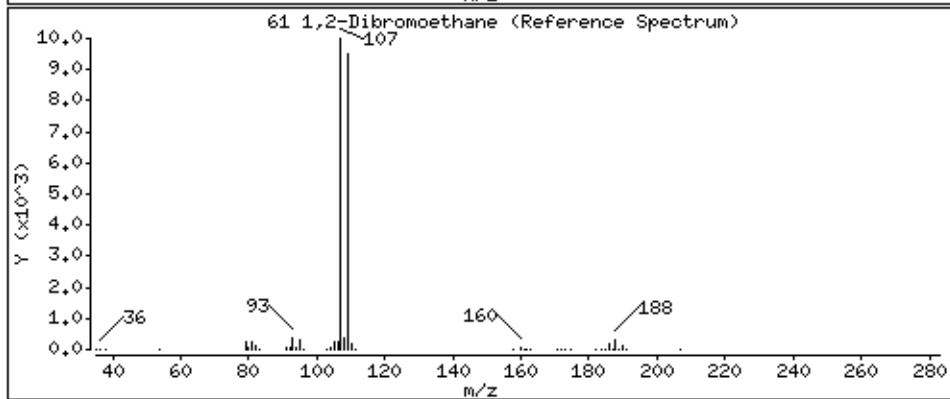
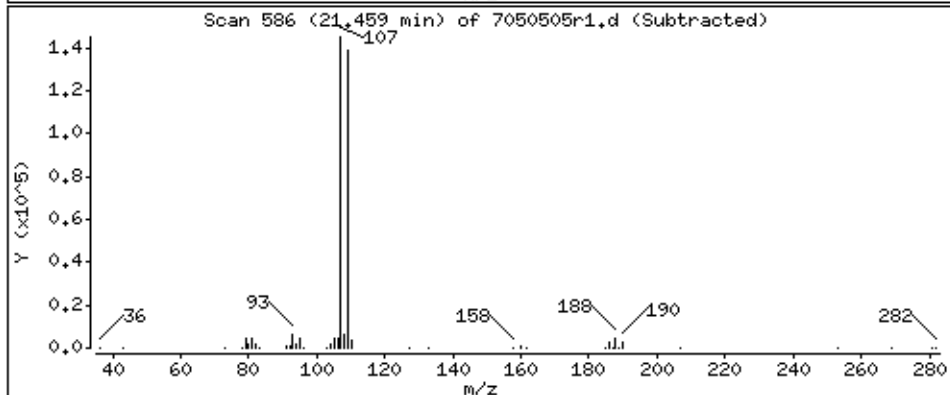
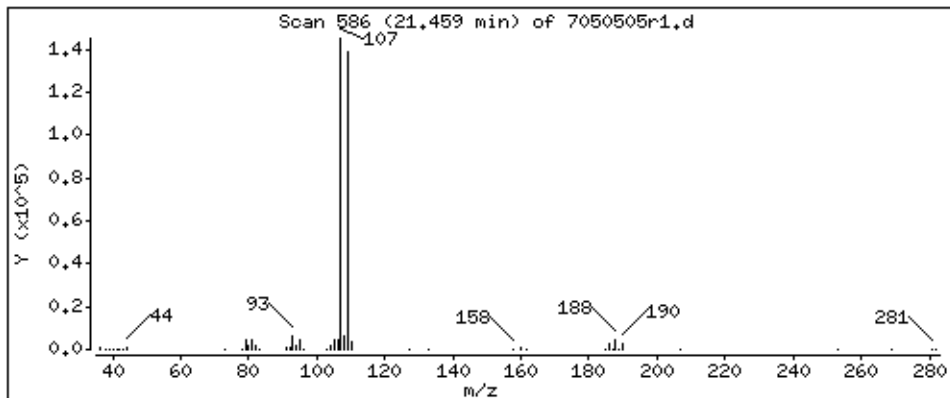
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

61 1,2-Dibromoethane

Concentration: 4.674 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

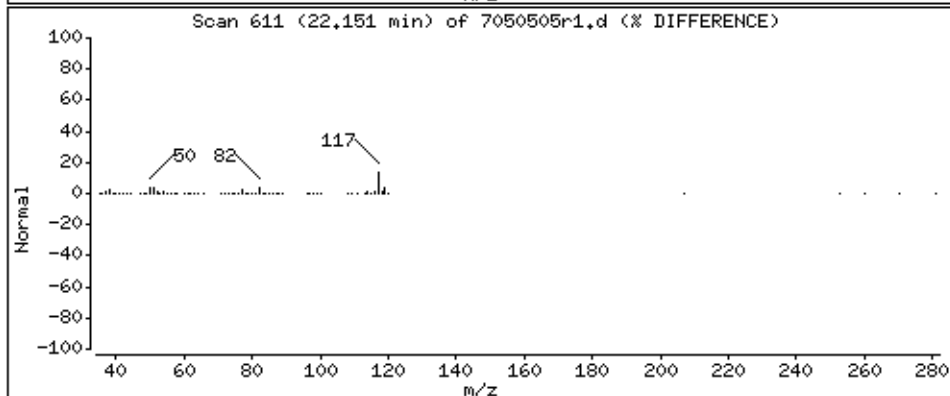
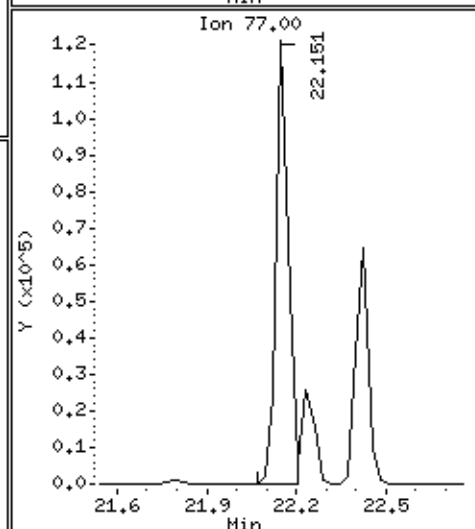
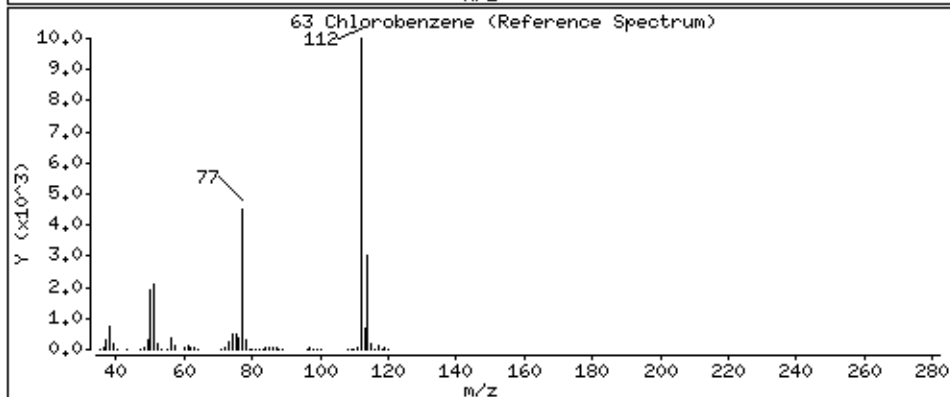
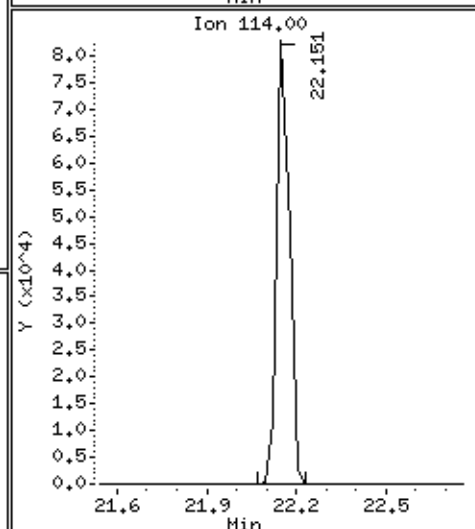
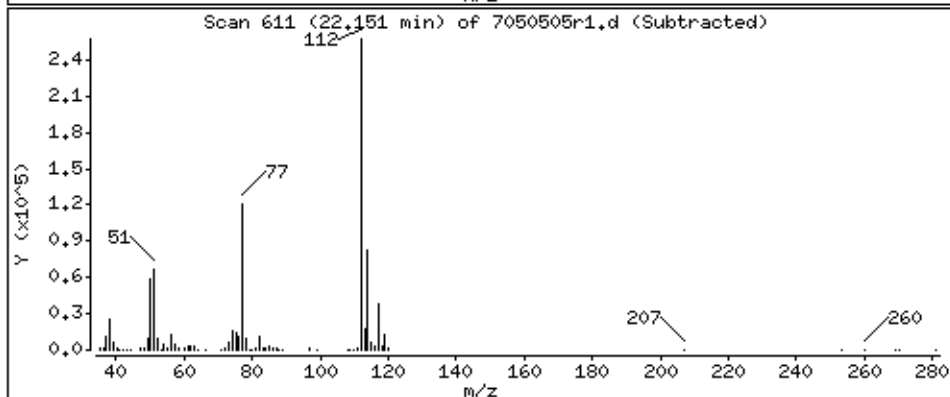
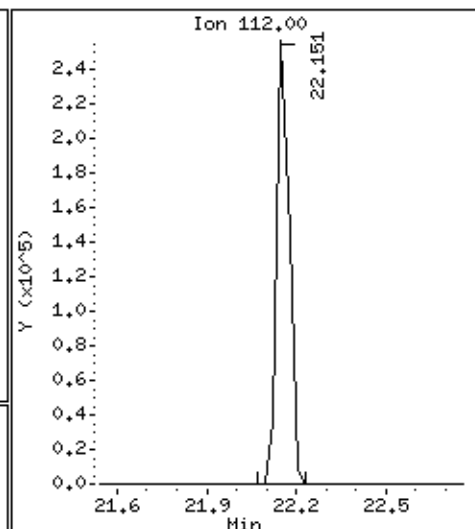
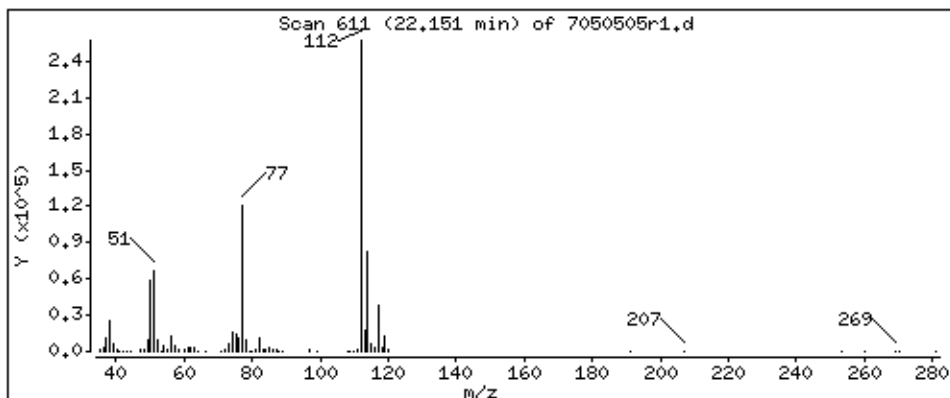
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

63 Chlorobenzene

Concentration: 4.761 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

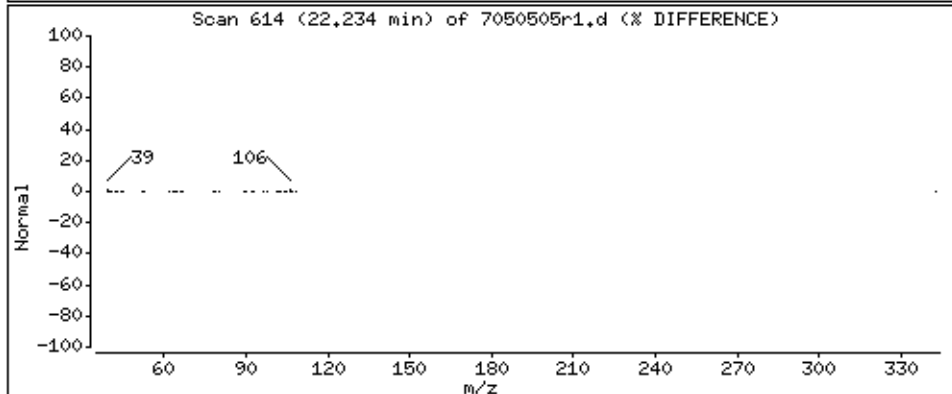
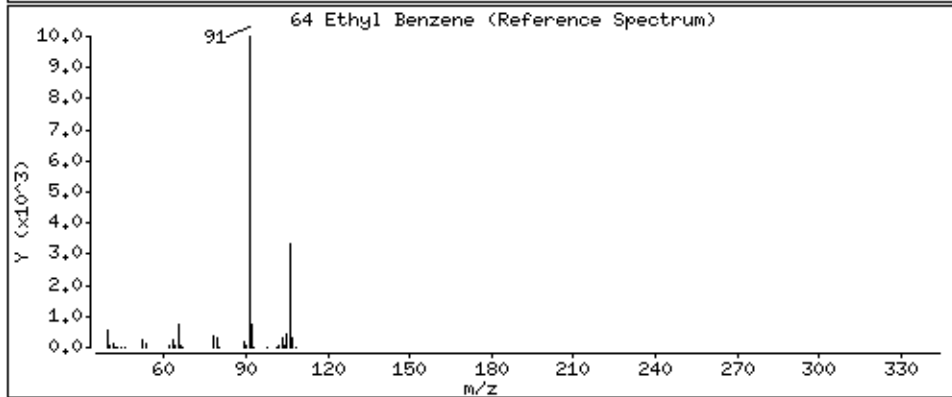
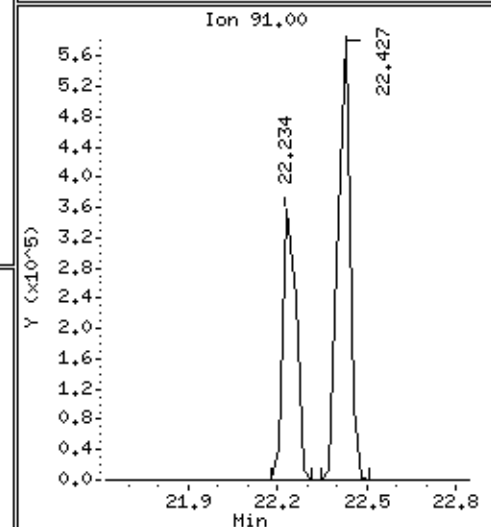
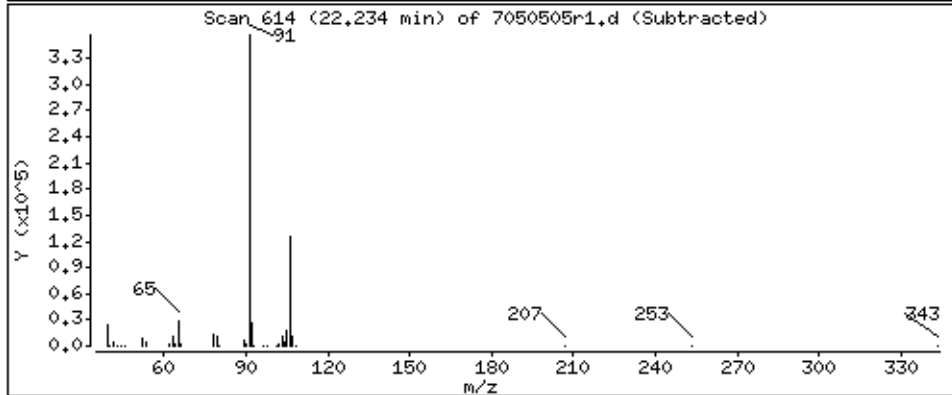
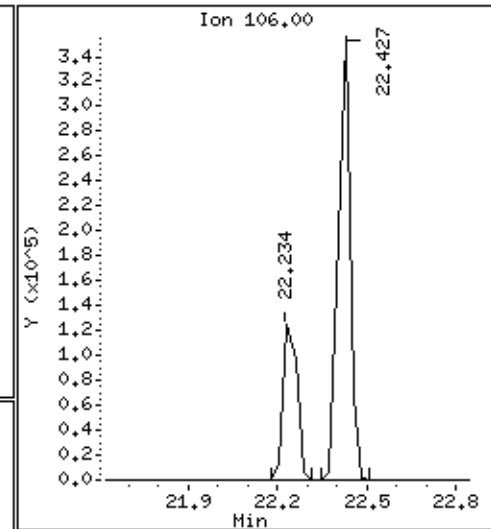
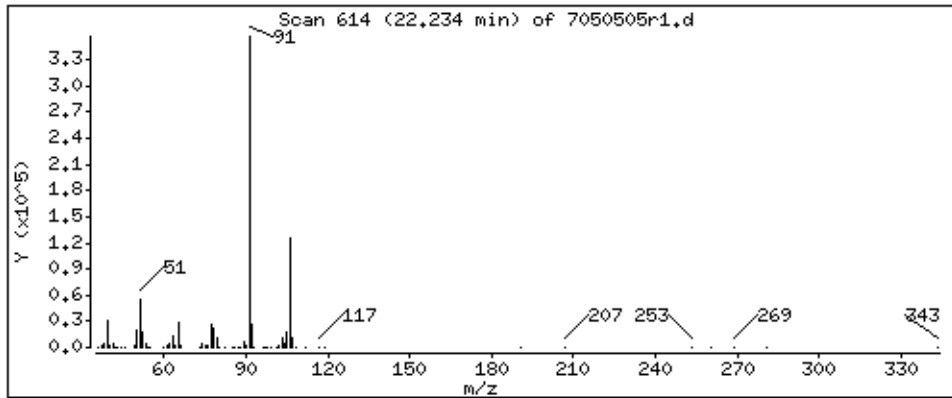
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

64 Ethyl Benzene

Concentration: 4.833 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

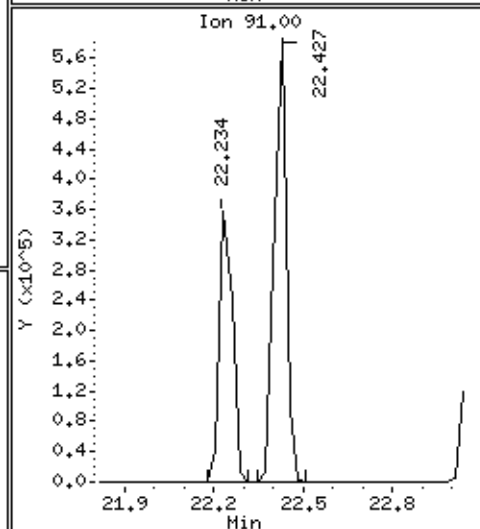
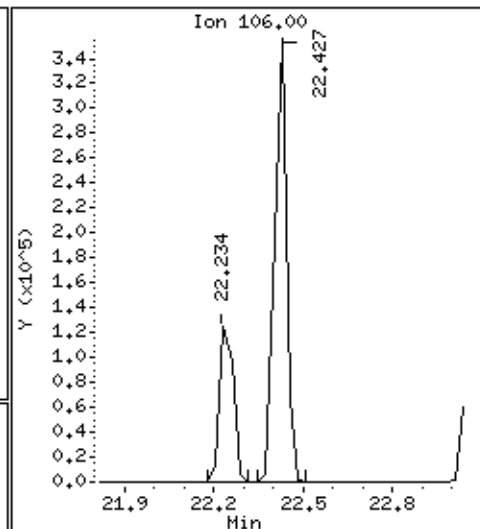
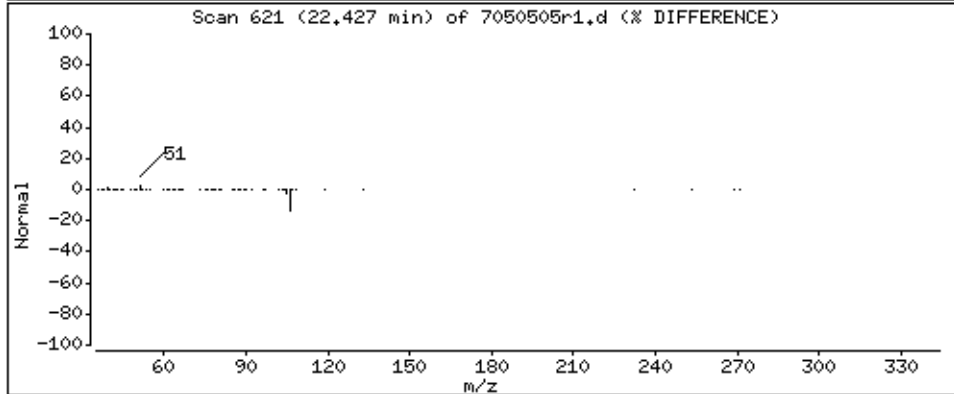
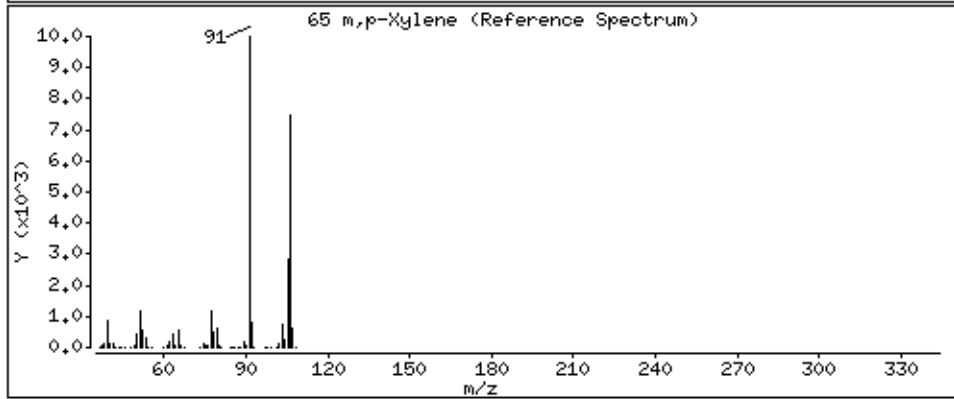
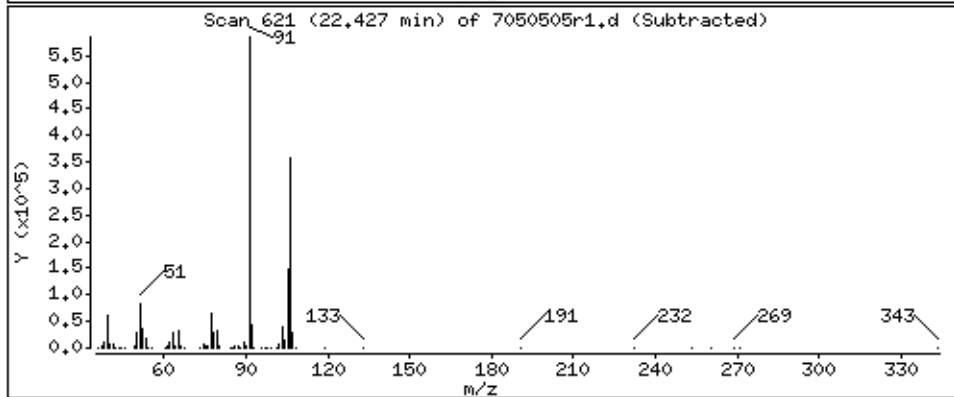
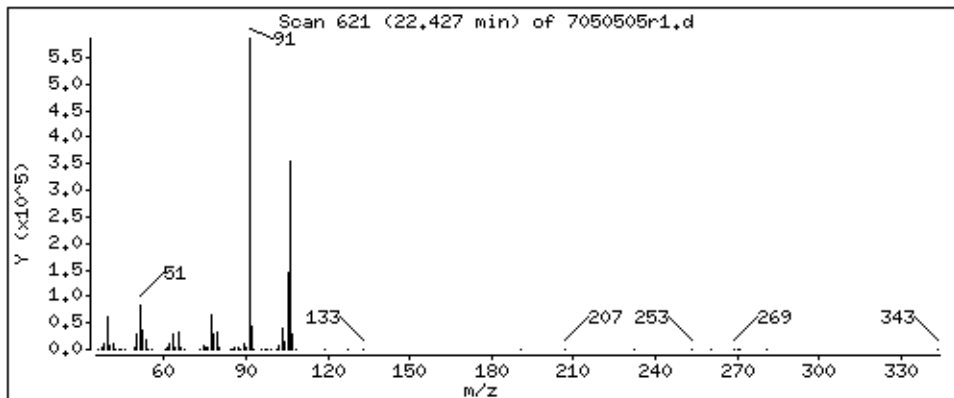
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

65 m,p-Xylene

Concentration: 8.771 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

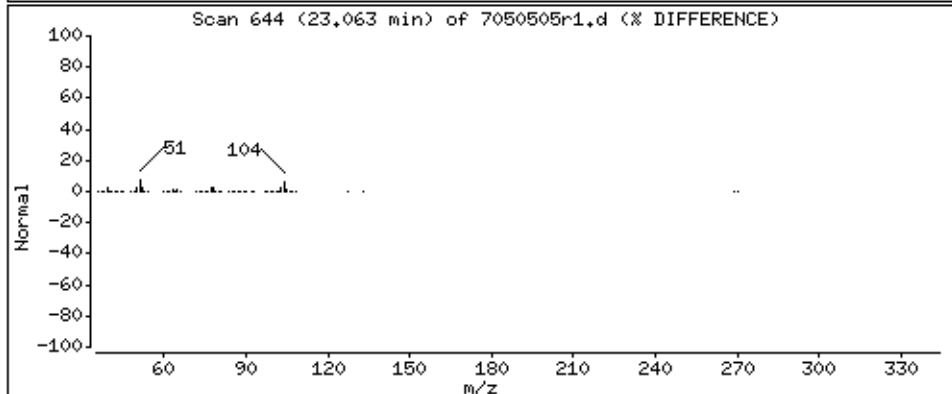
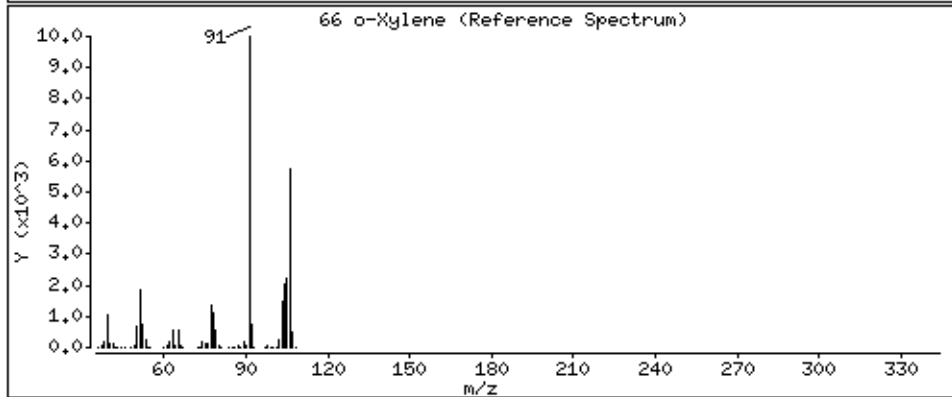
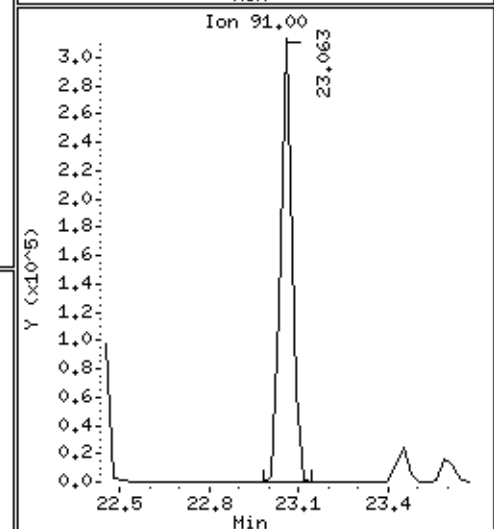
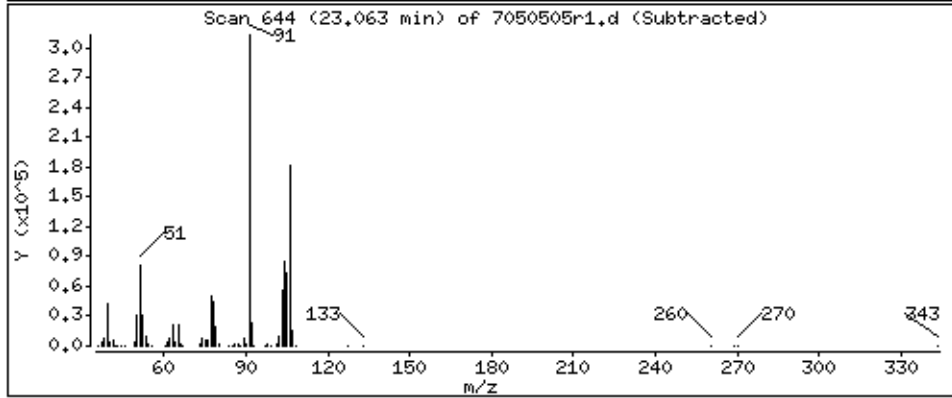
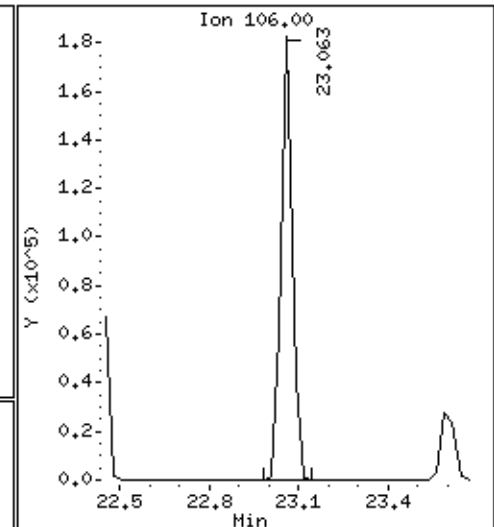
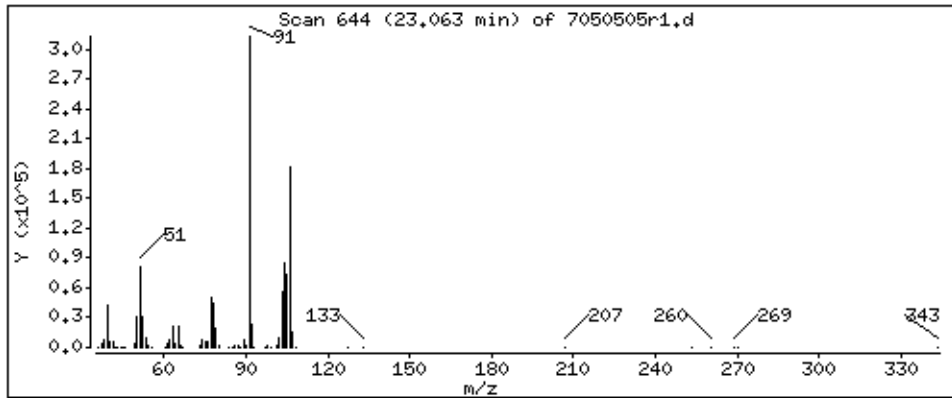
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

66 o-Xylene

Concentration: 4.922 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

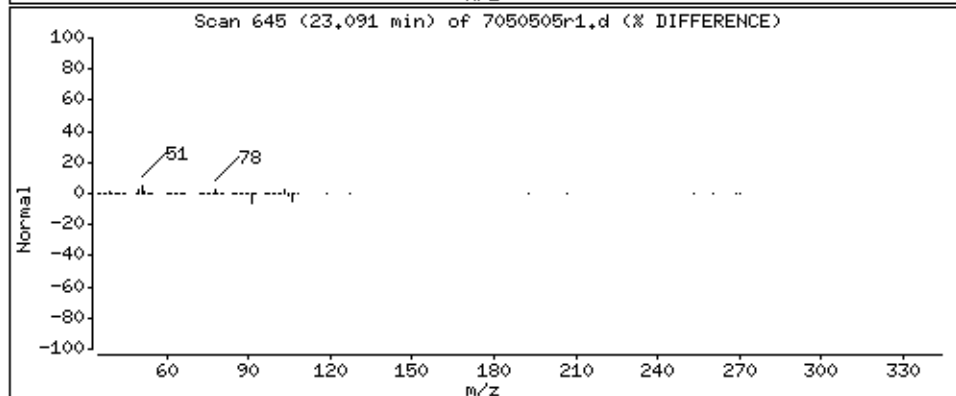
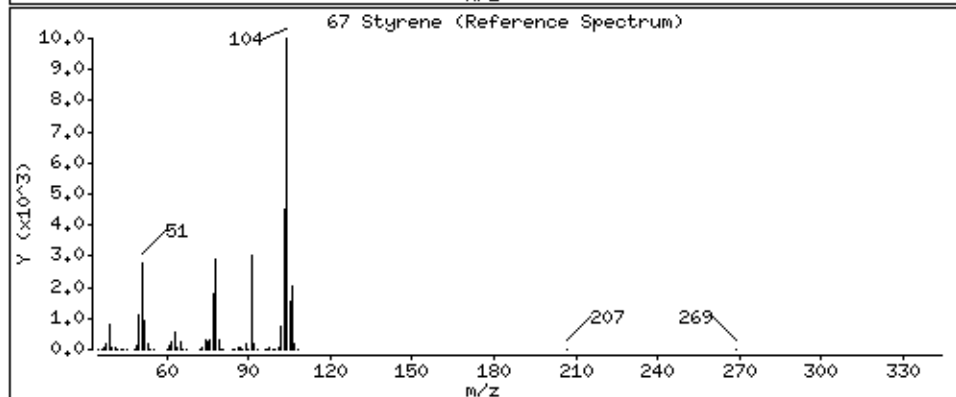
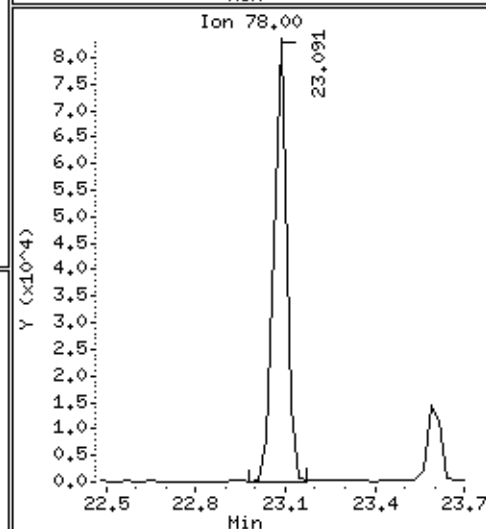
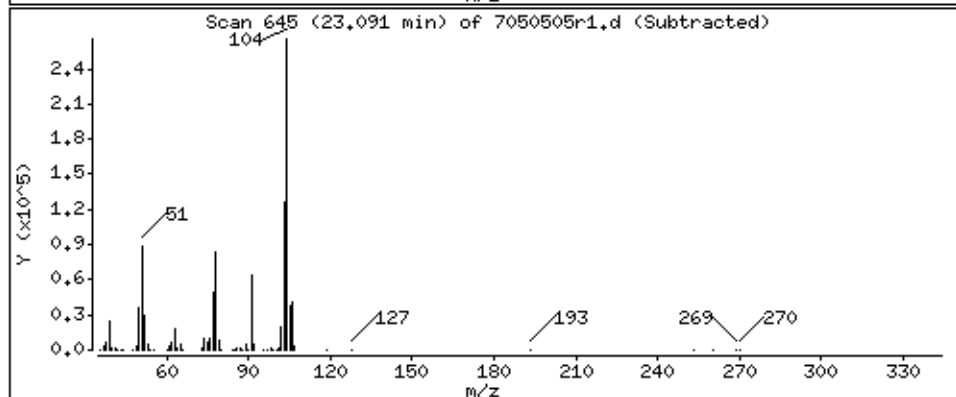
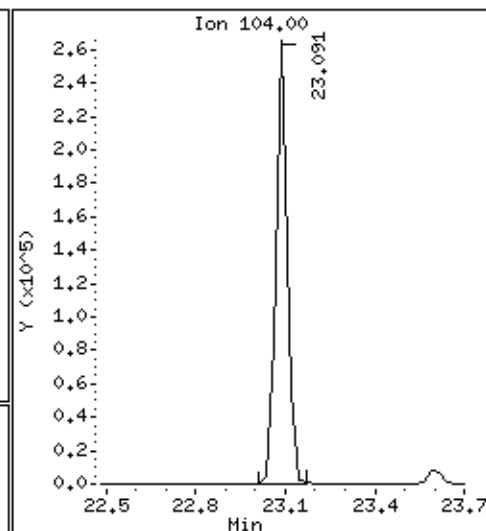
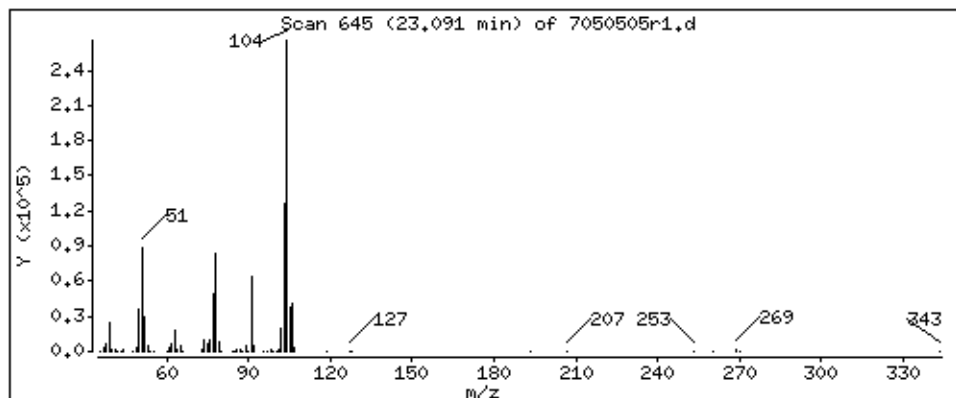
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

67 Styrene

Concentration: 6.487 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

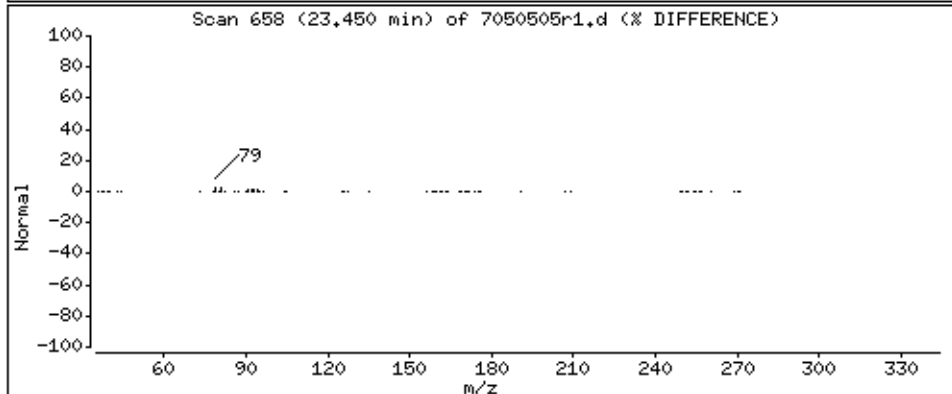
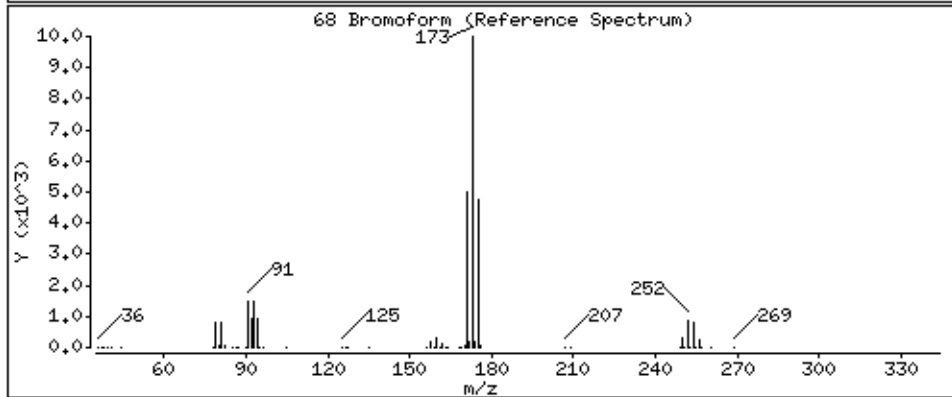
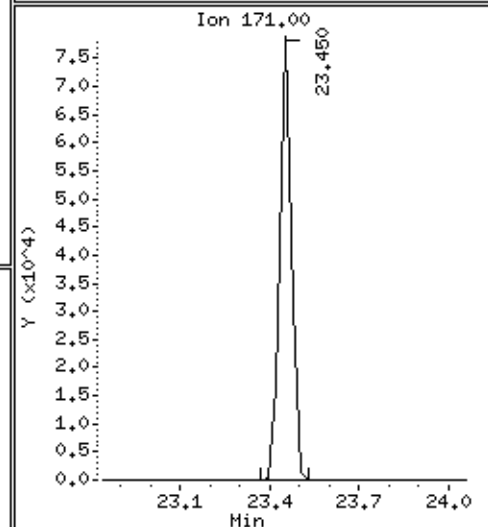
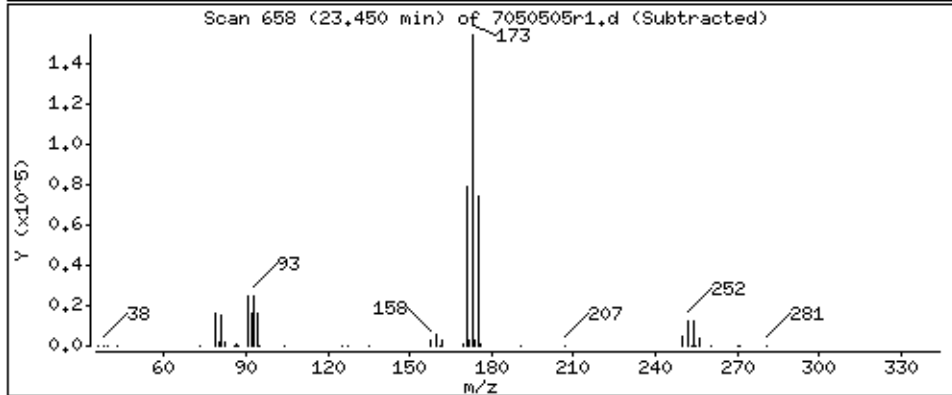
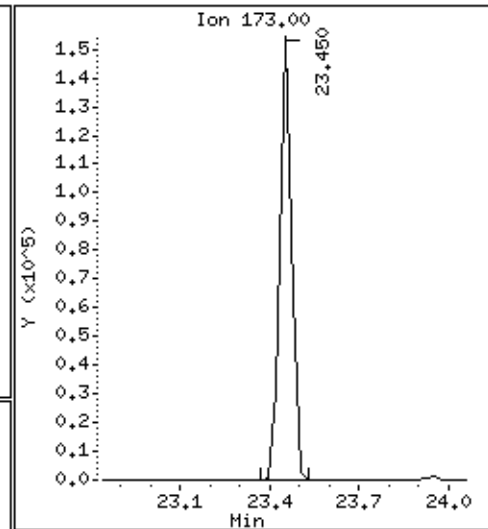
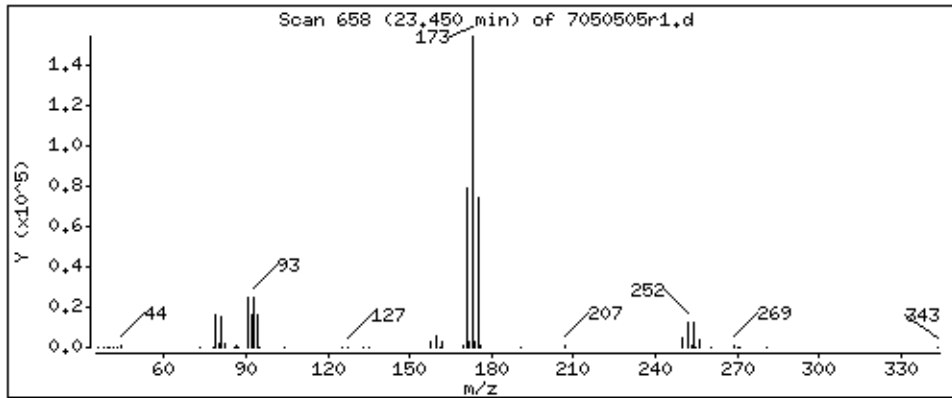
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

68 Bromoform

Concentration: 6.199 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

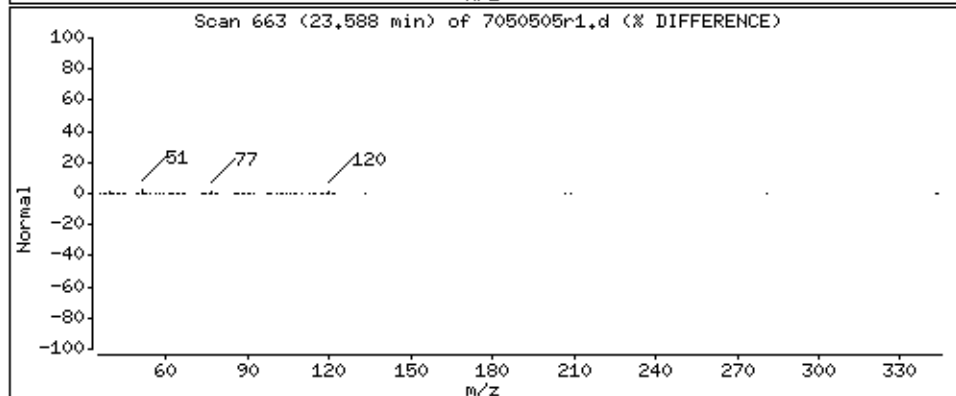
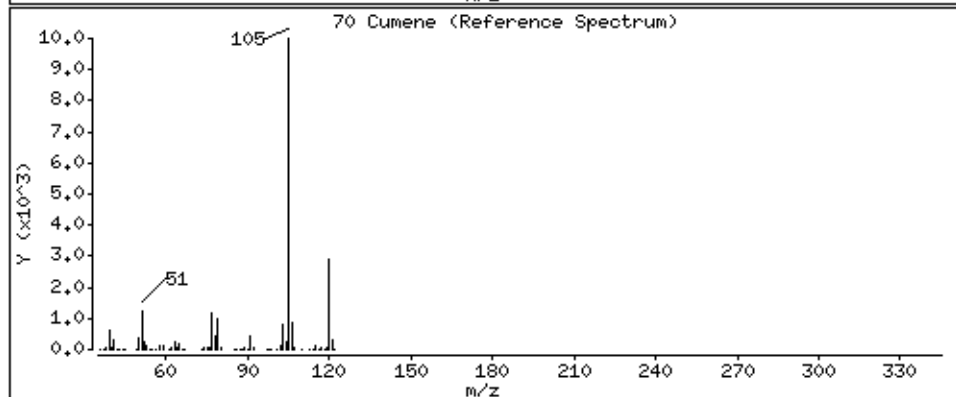
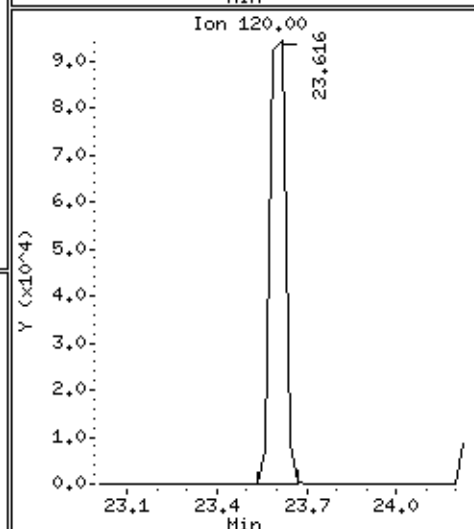
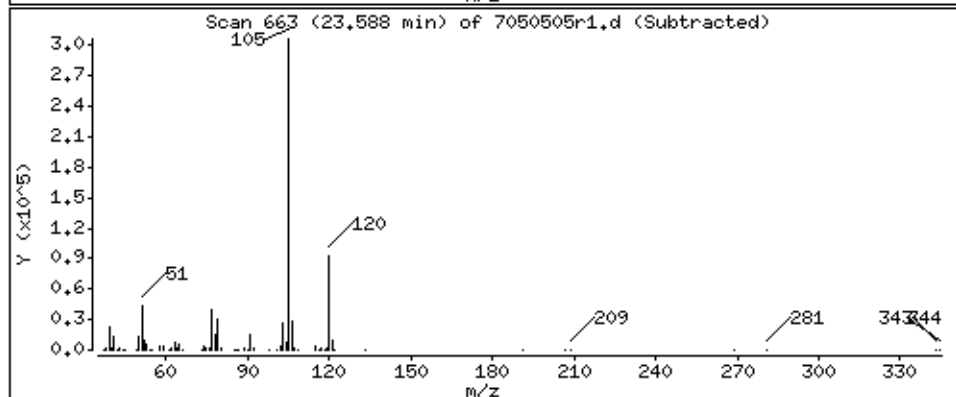
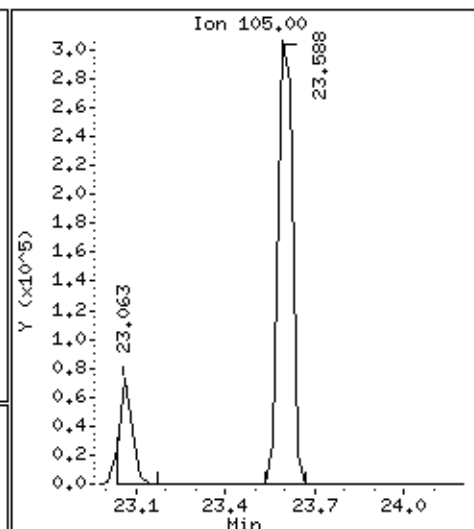
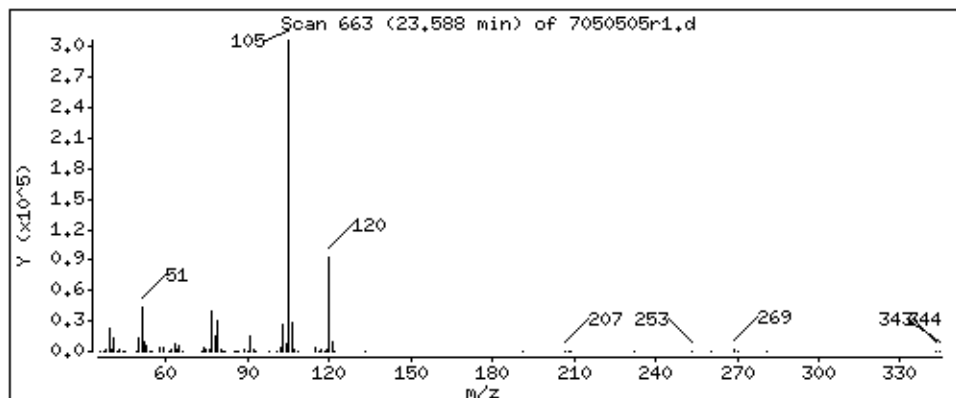
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

70 Cumene

Concentration: 4.551 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

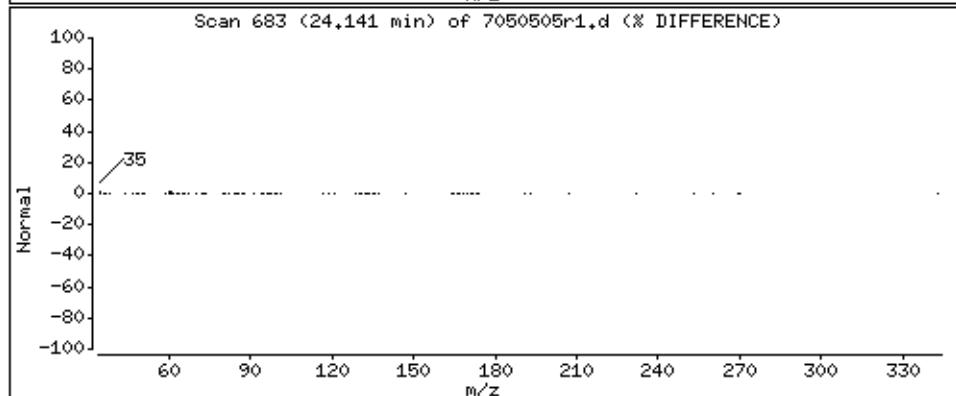
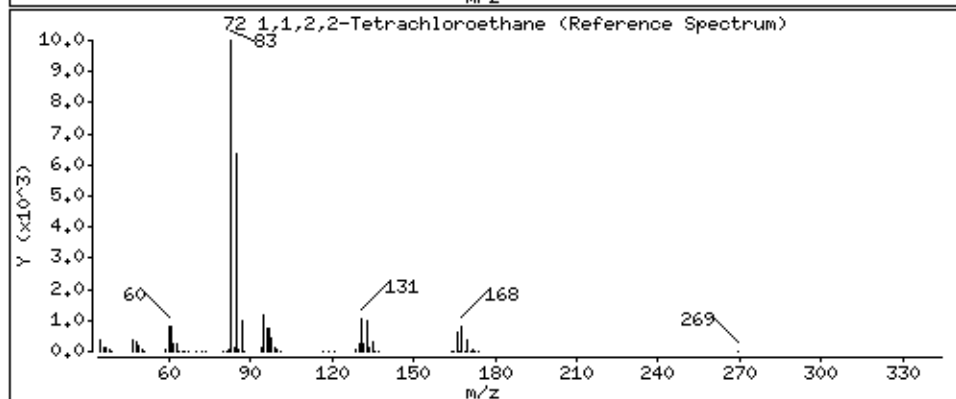
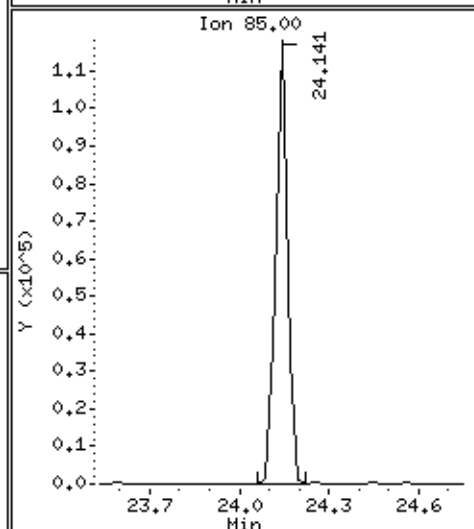
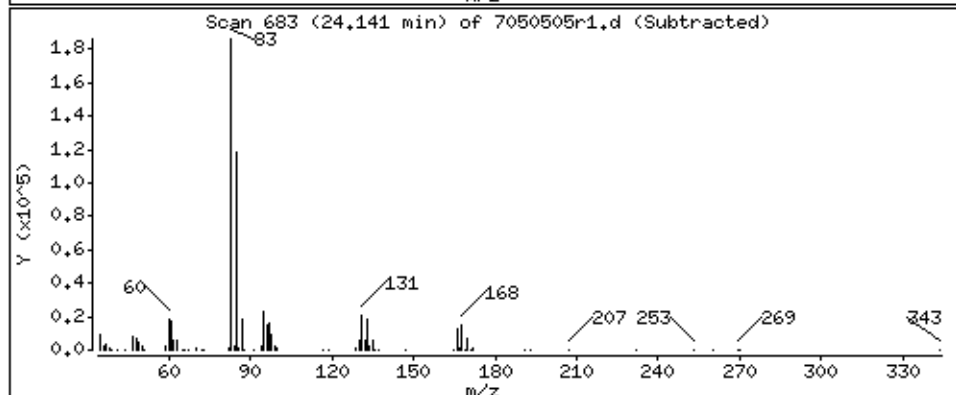
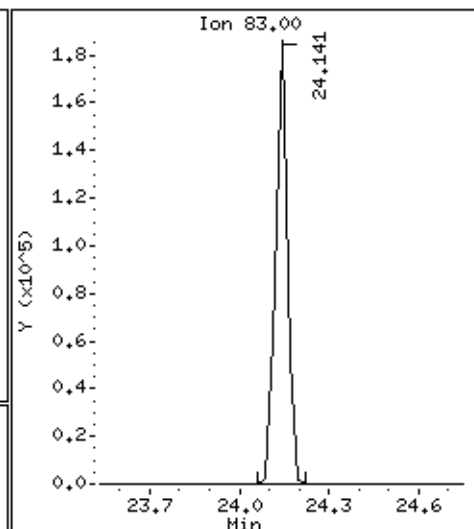
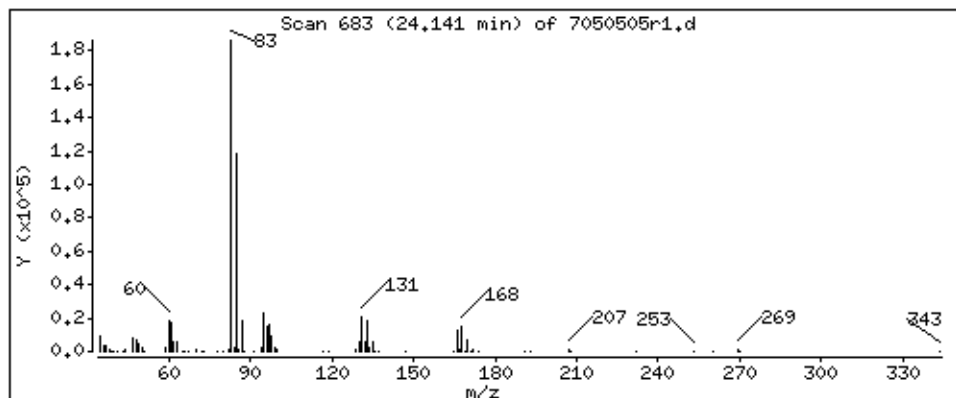
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

72 1,1,2,2-Tetrachloroethane

Concentration: 5.073 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

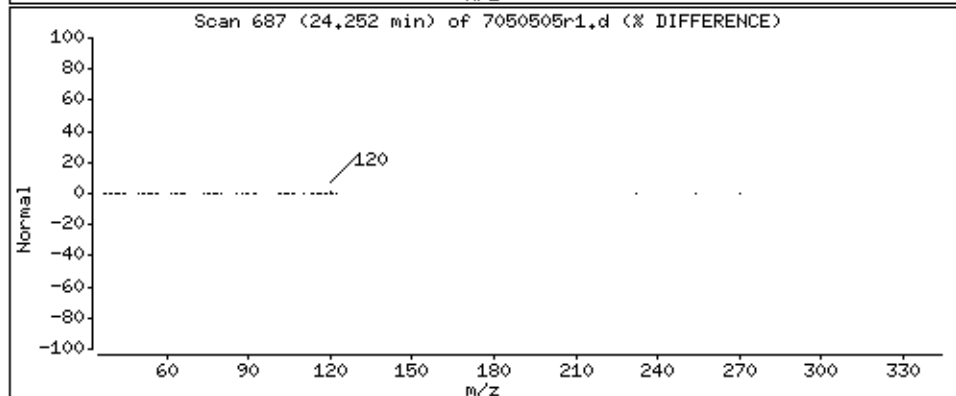
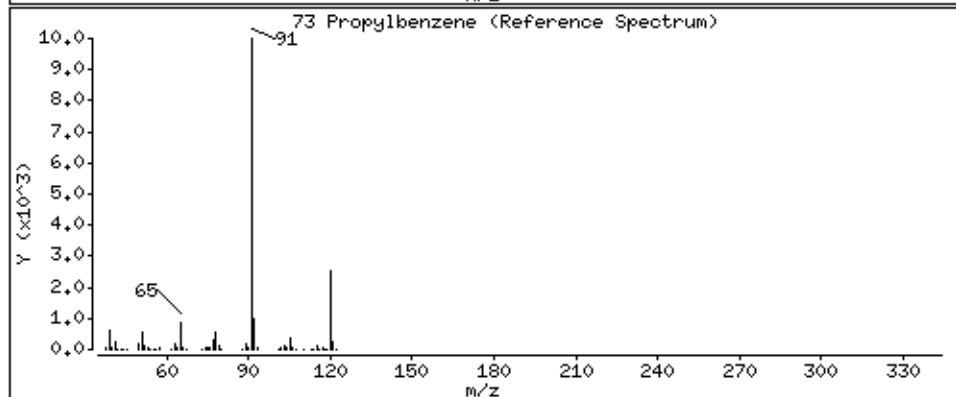
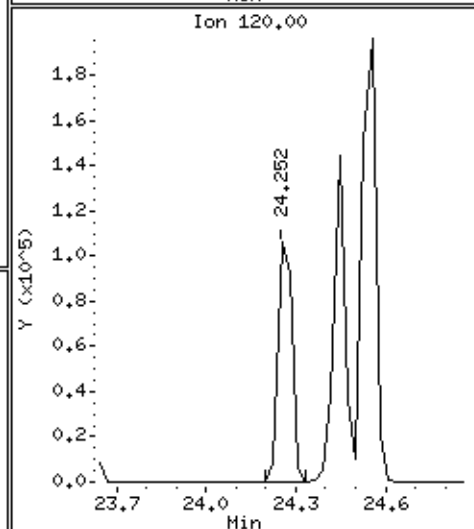
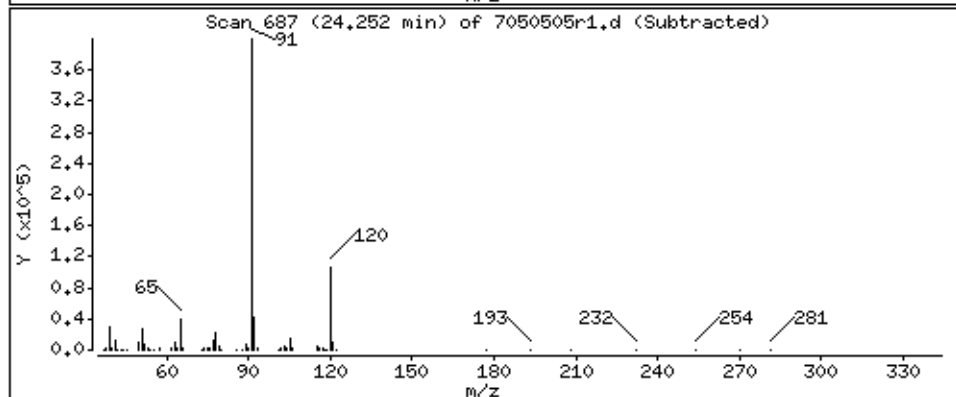
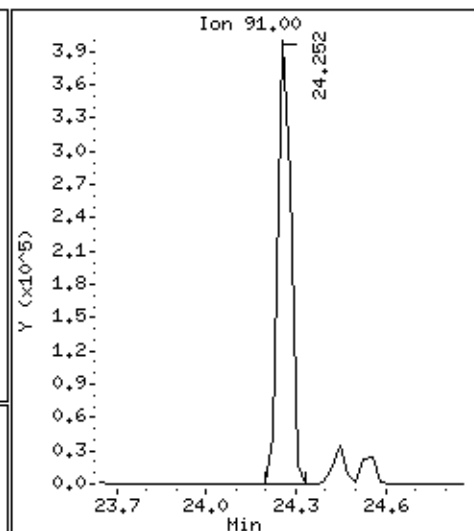
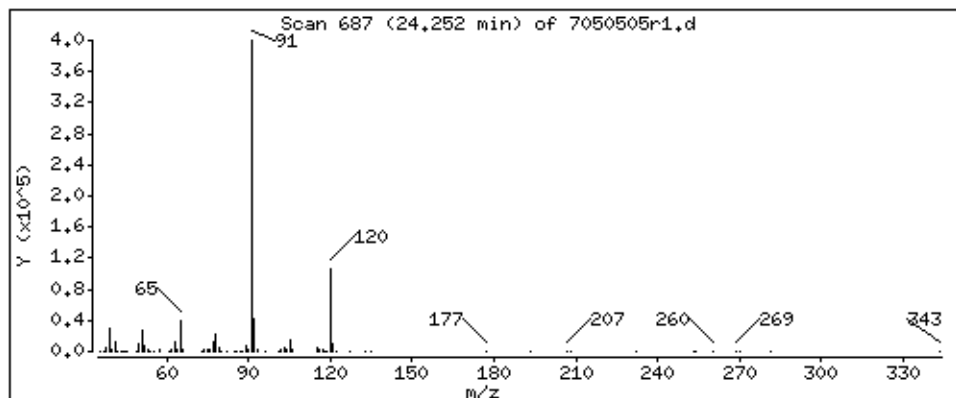
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

73 Propylbenzene

Concentration: 6.637 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

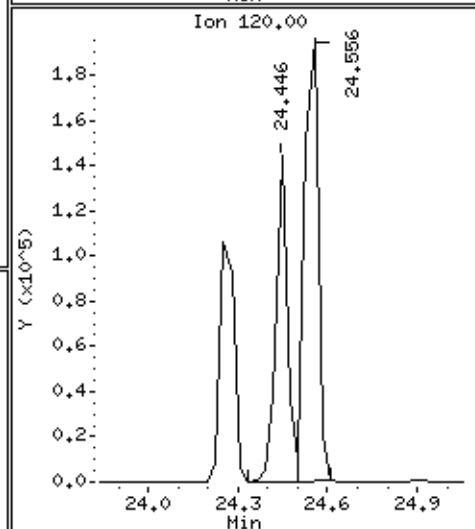
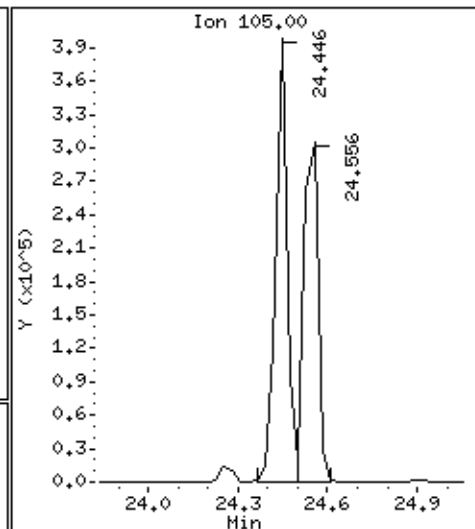
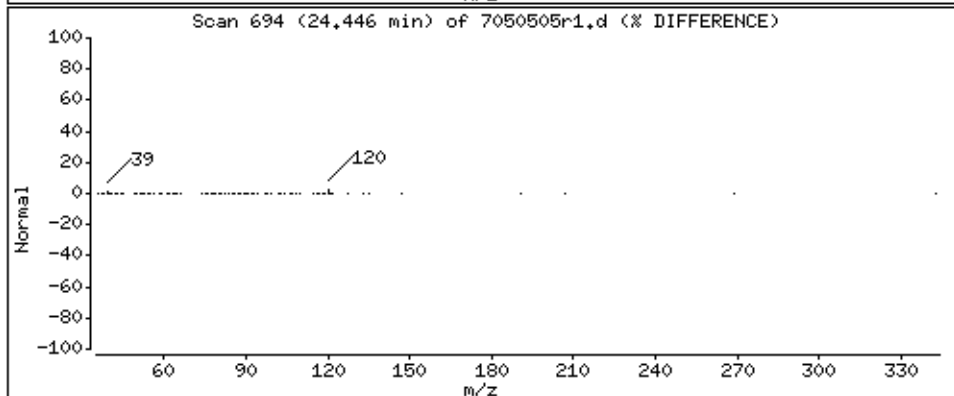
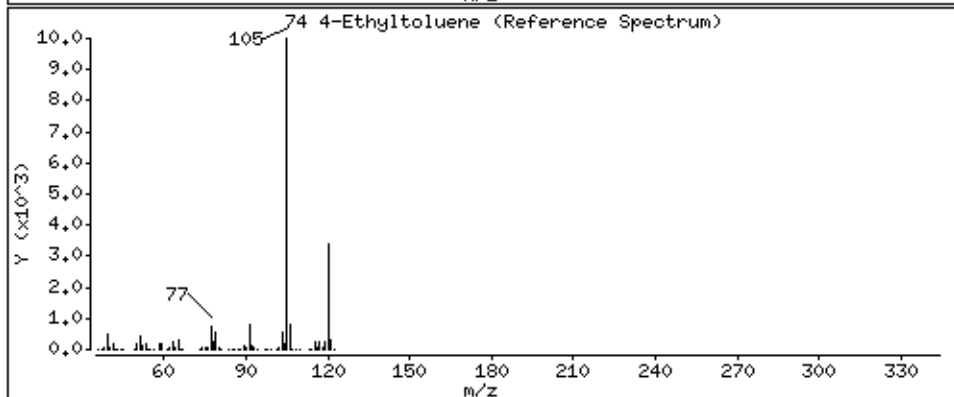
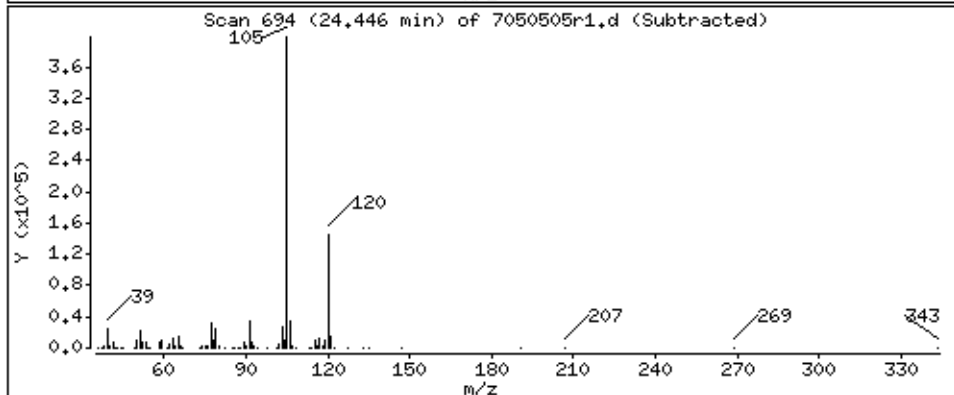
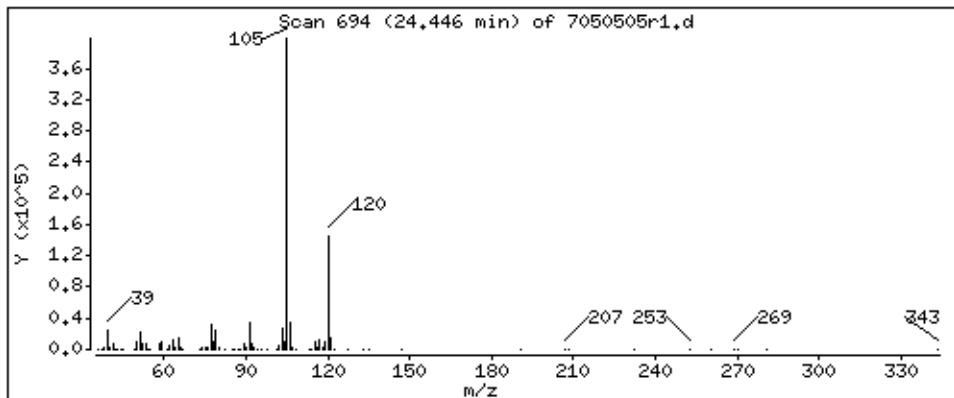
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

74 4-Ethyltoluene

Concentration: 4.778 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

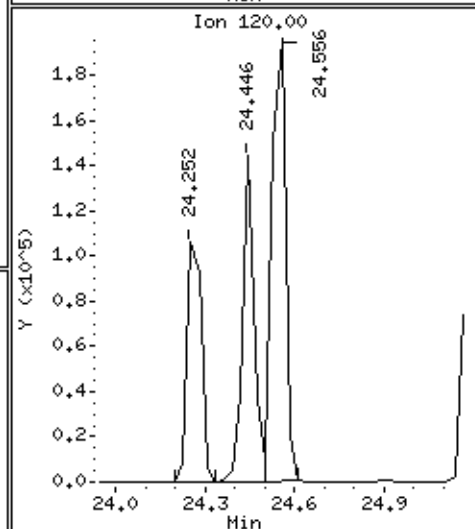
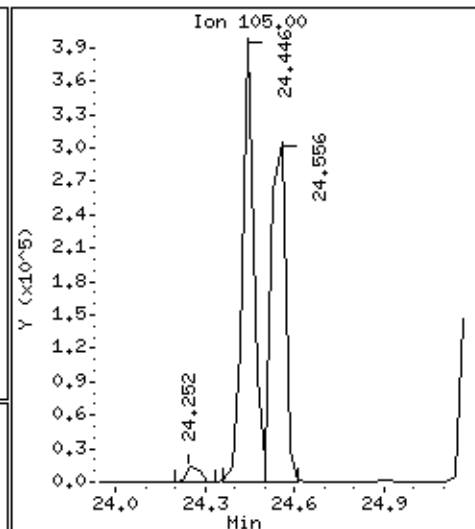
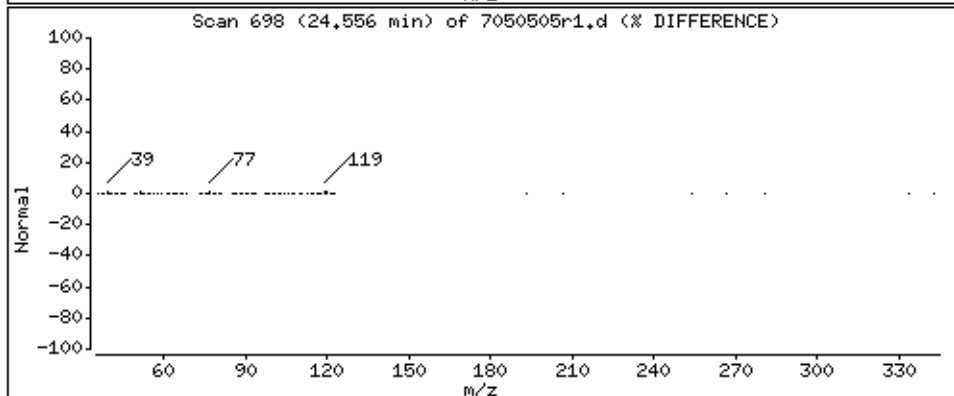
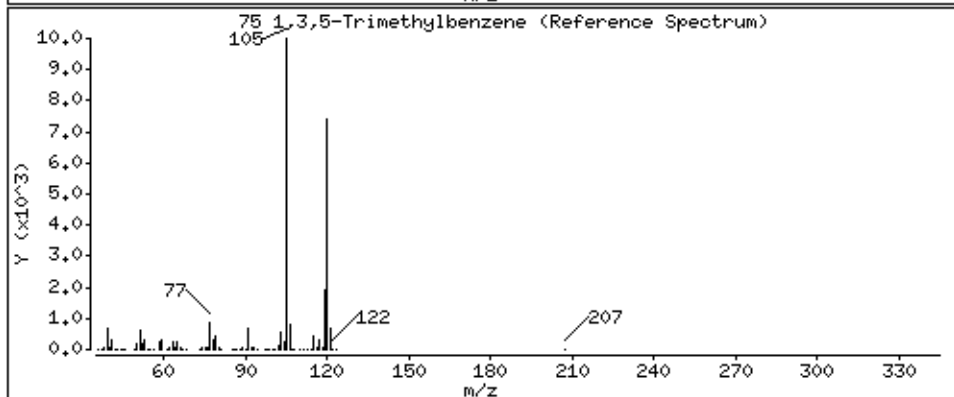
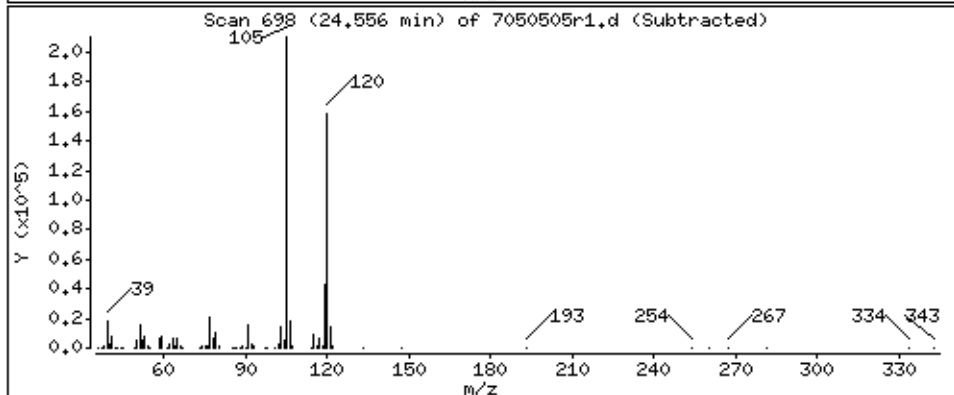
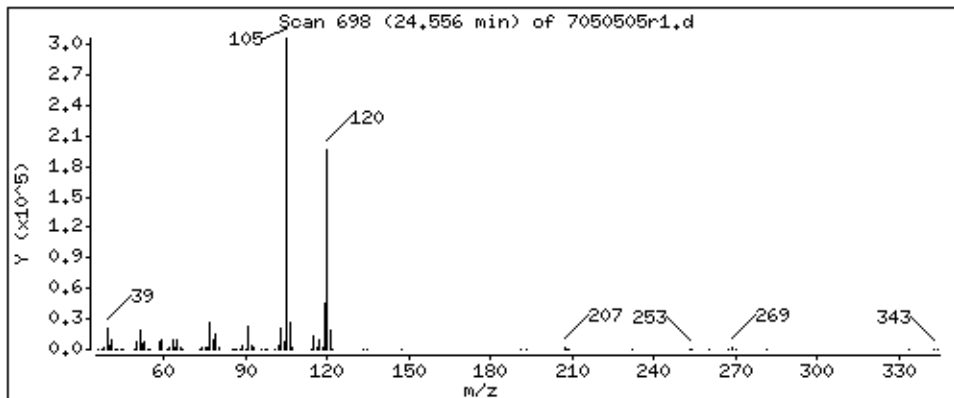
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

75 1,3,5-Trimethylbenzene

Concentration: 5.080 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

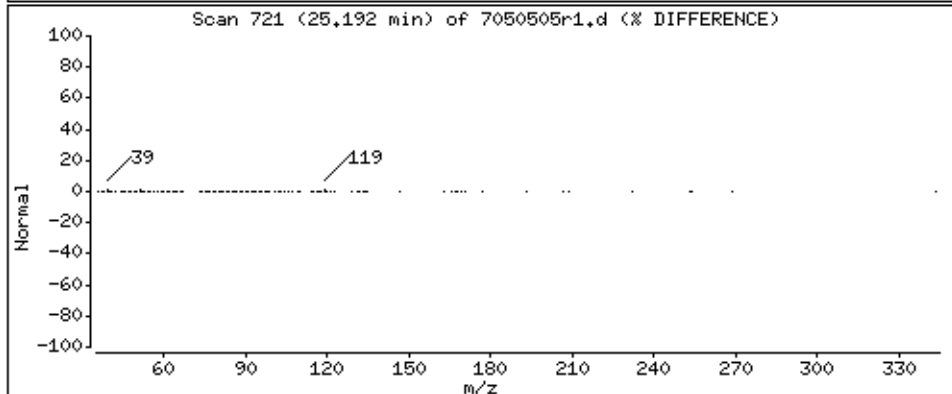
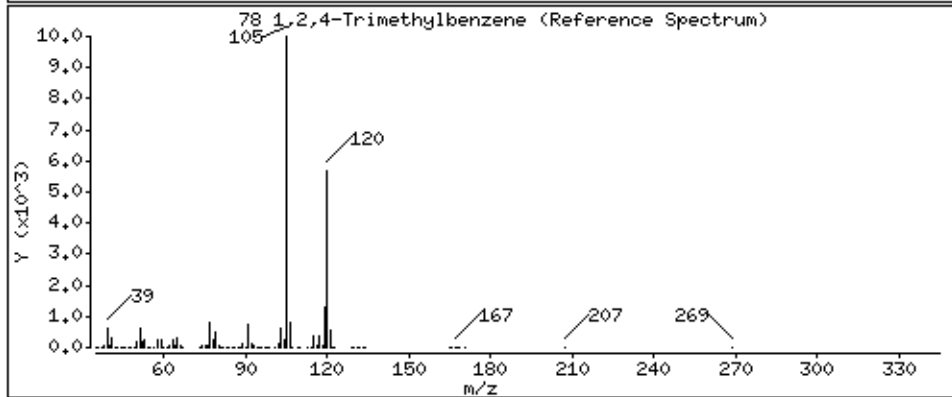
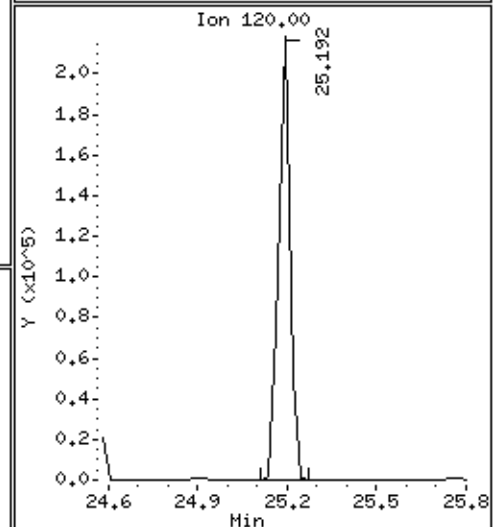
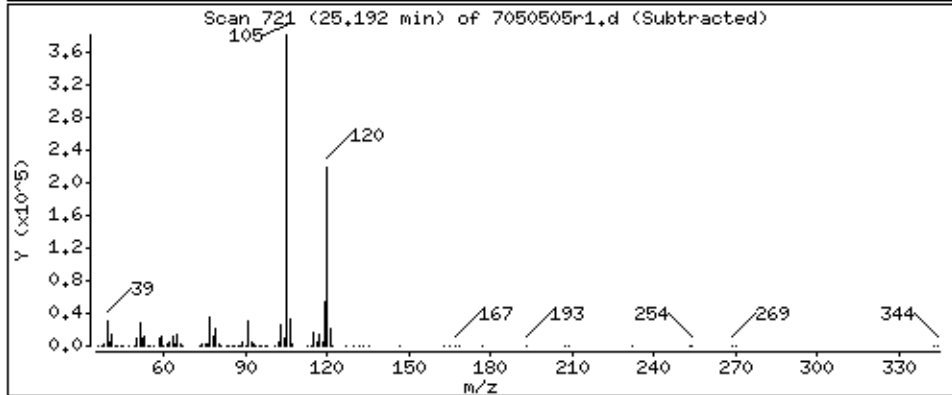
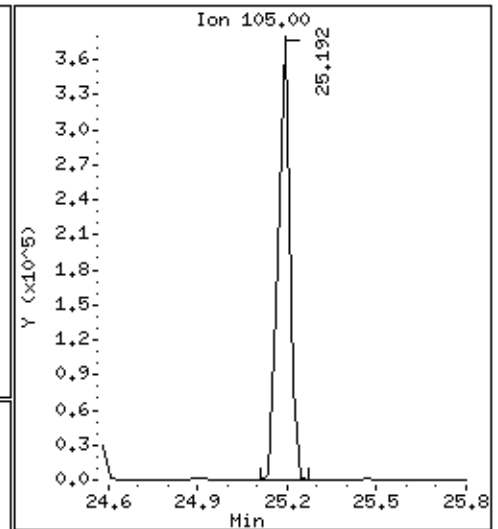
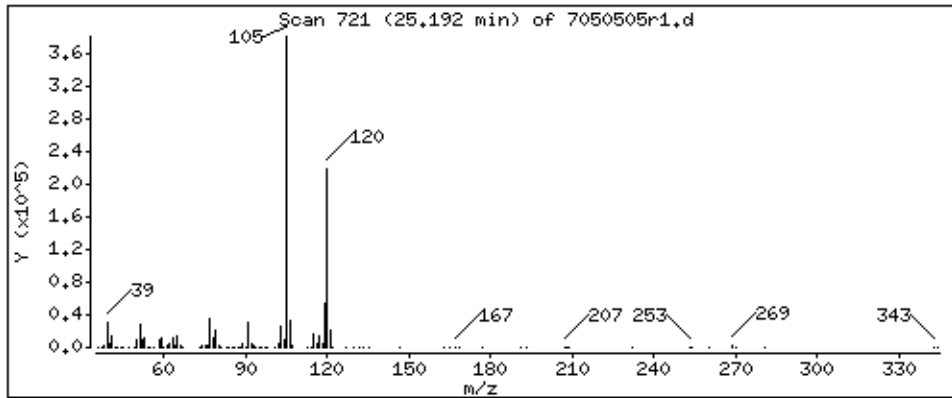
Operator: BD

Column phase: RTx-624

Column diameter: 0.32

78 1,2,4-Trimethylbenzene

Concentration: 5.408 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

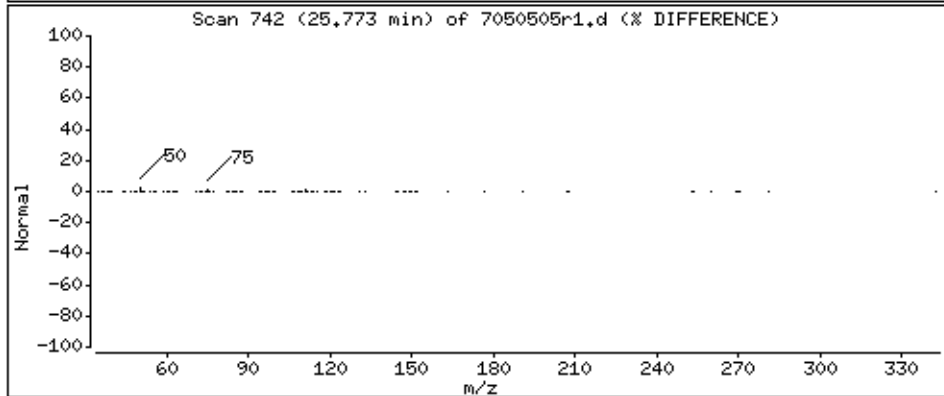
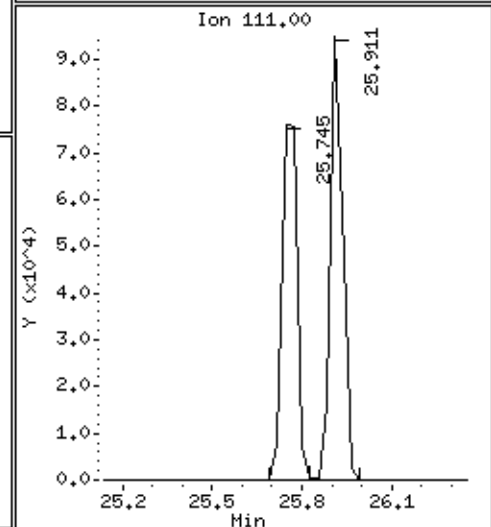
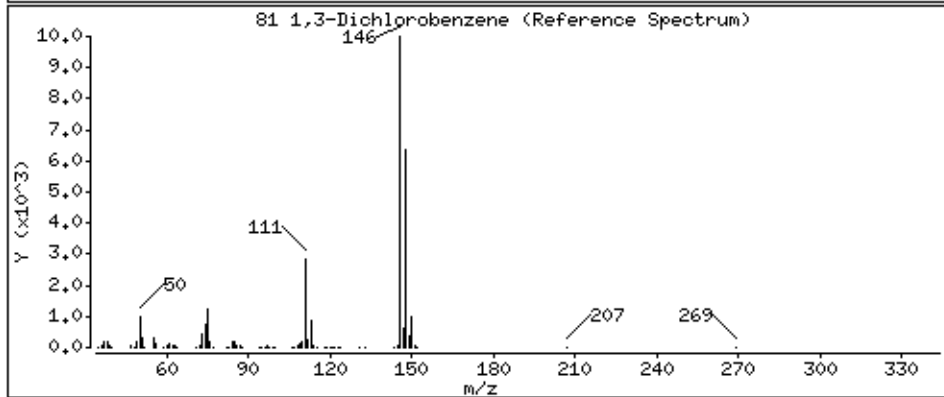
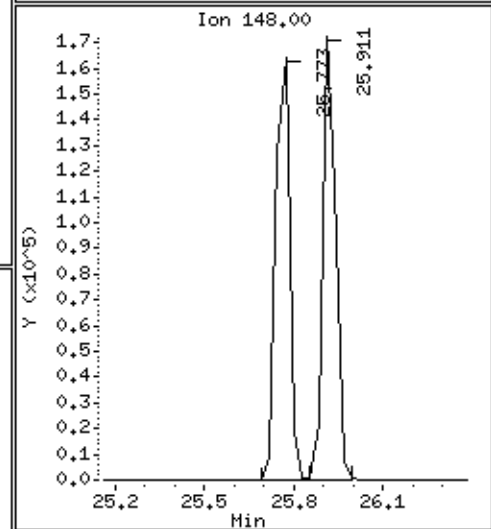
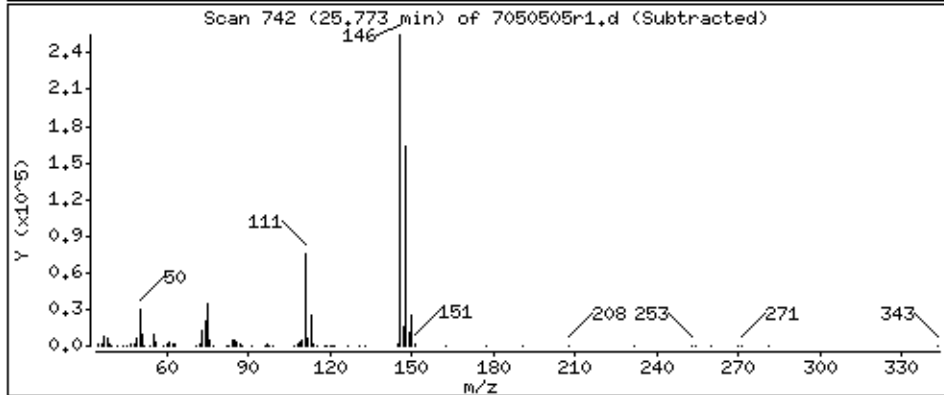
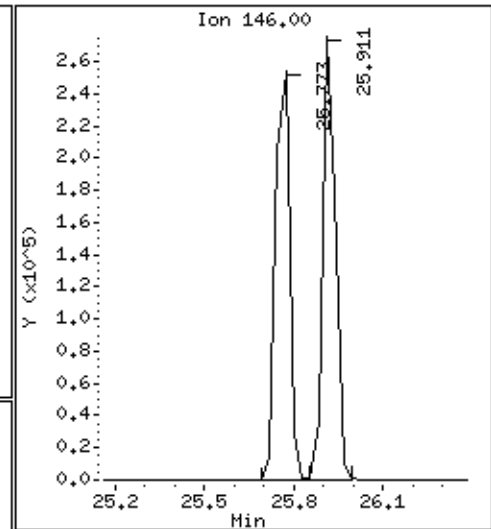
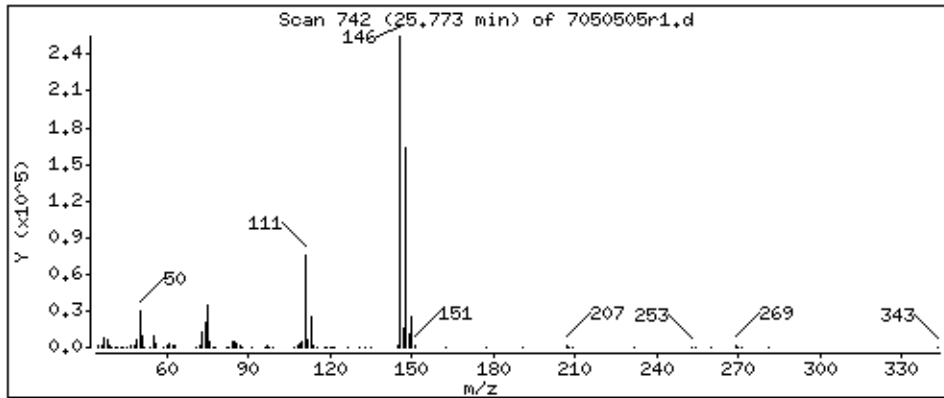
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

81 1,3-Dichlorobenzene

Concentration: 4.860 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

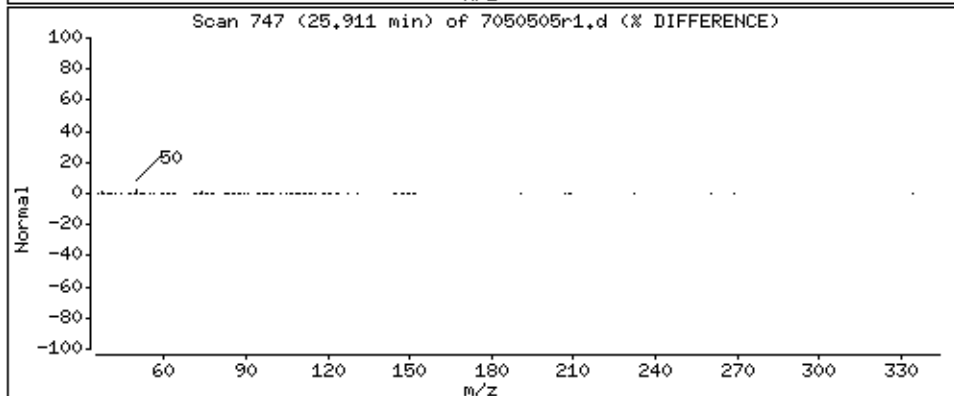
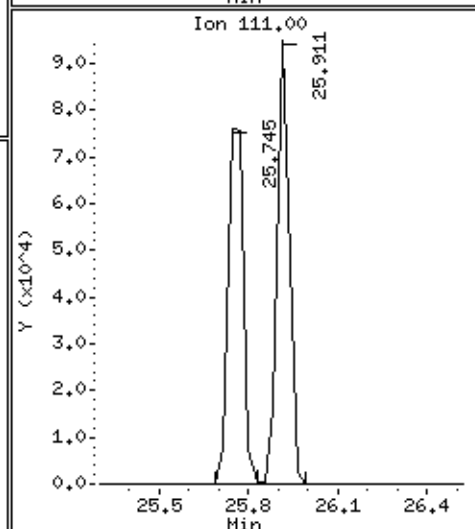
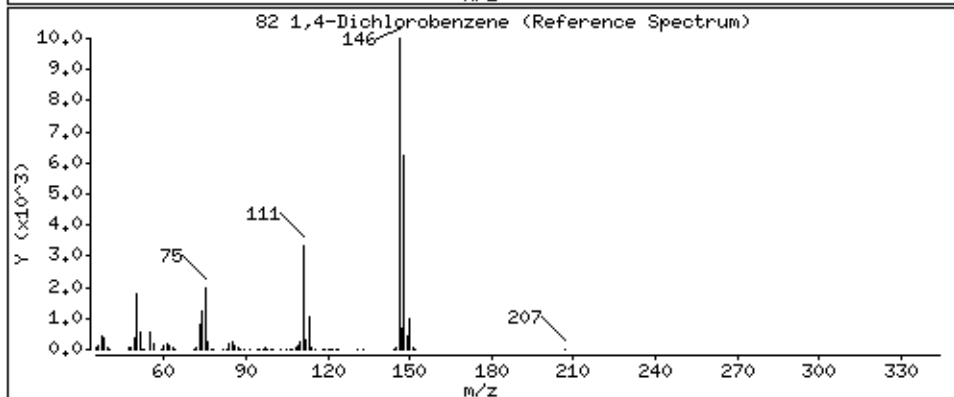
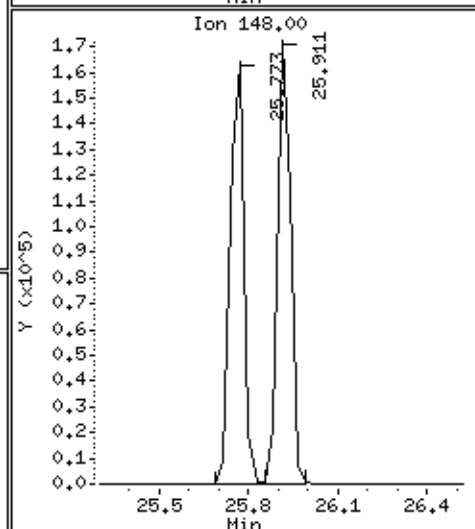
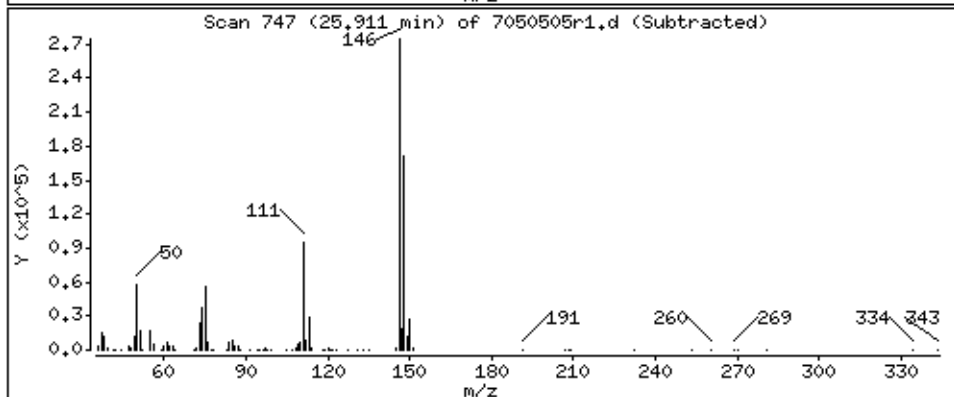
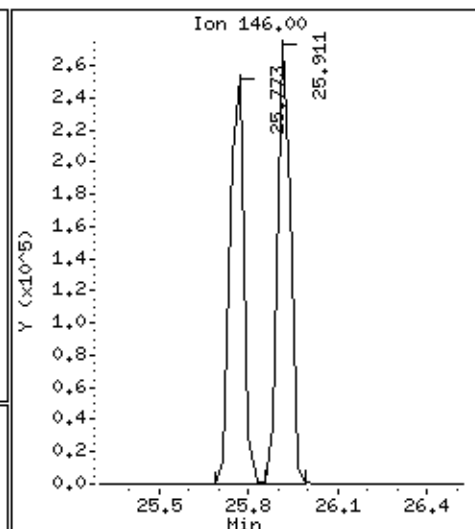
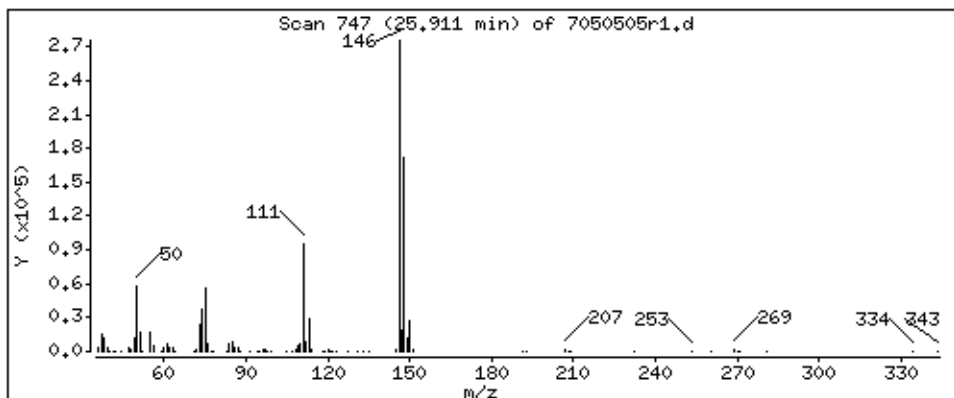
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

82 1,4-Dichlorobenzene

Concentration: 4.892 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

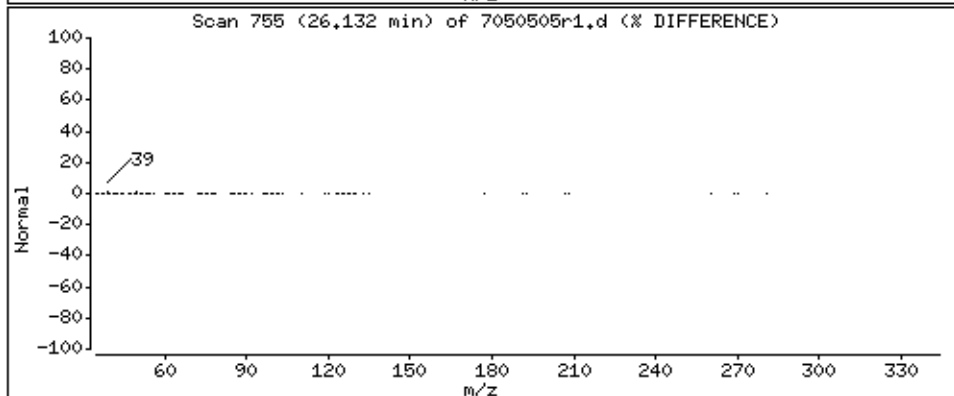
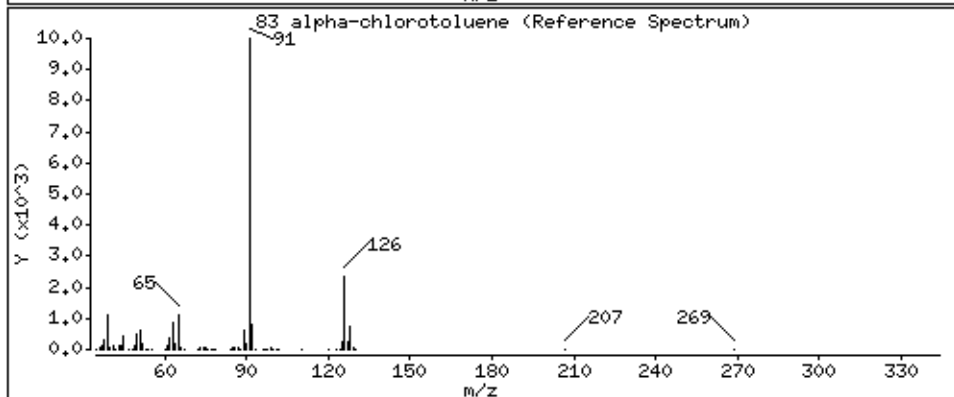
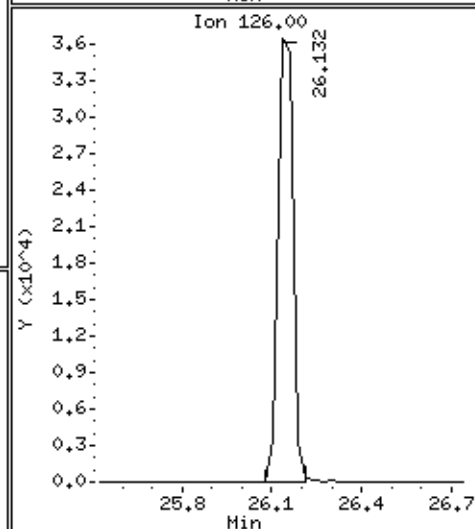
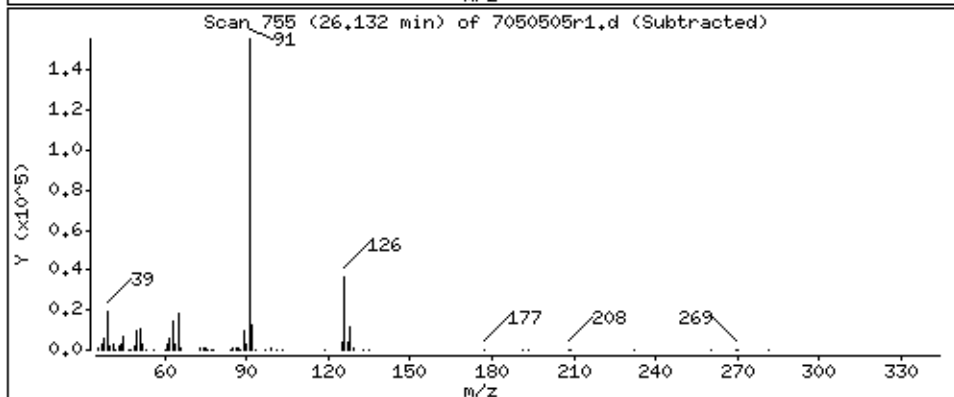
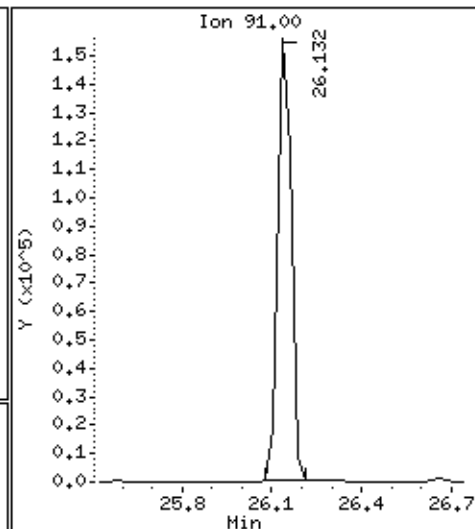
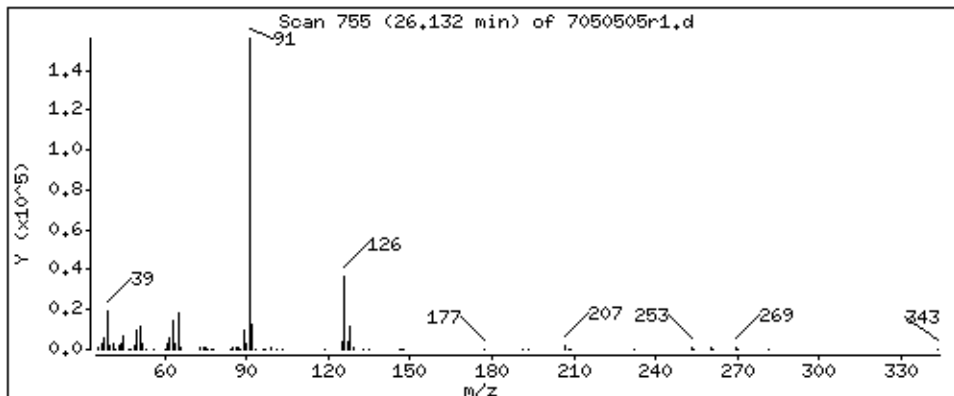
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

83 alpha-chlorotoluene

Concentration: 5.038 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

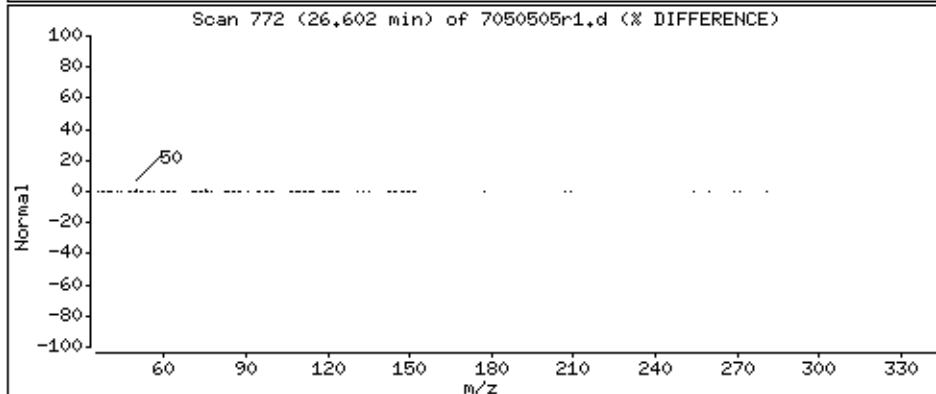
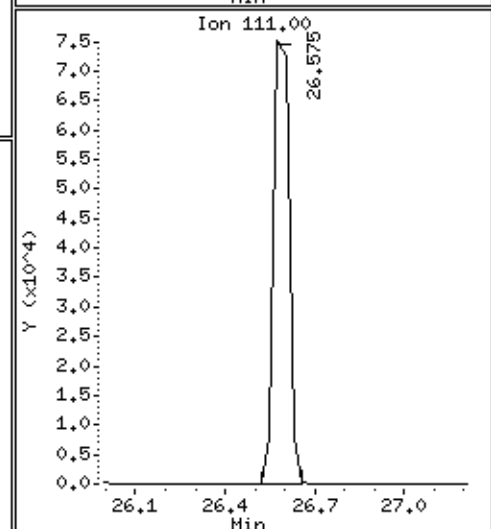
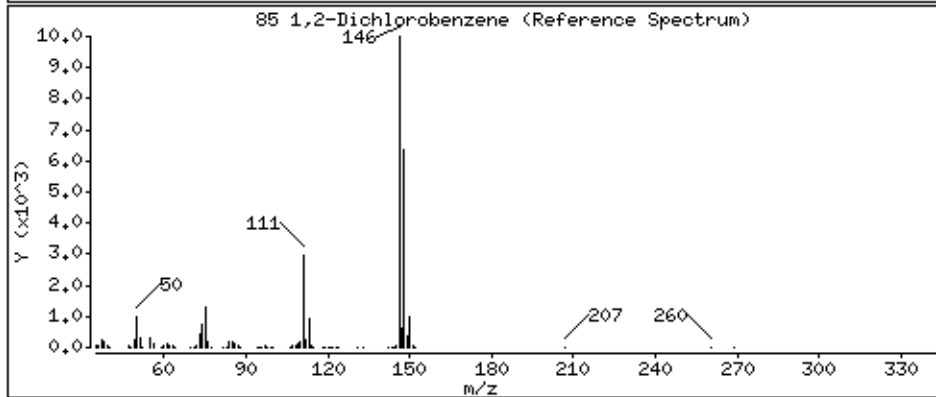
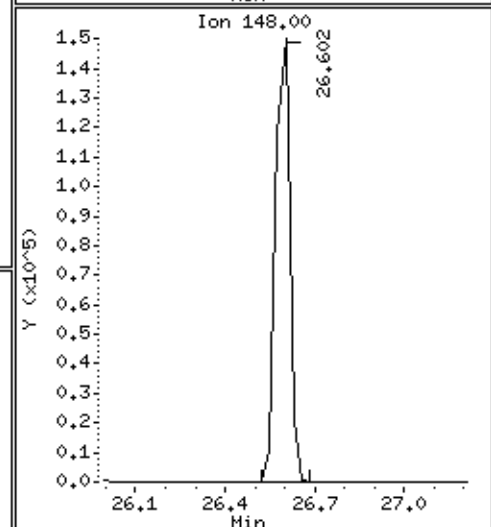
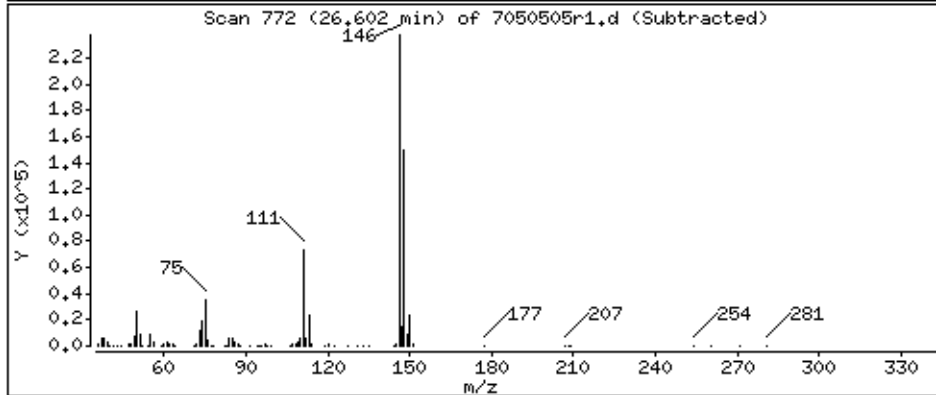
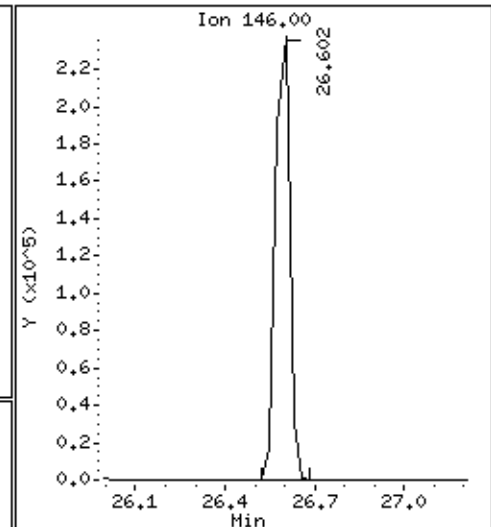
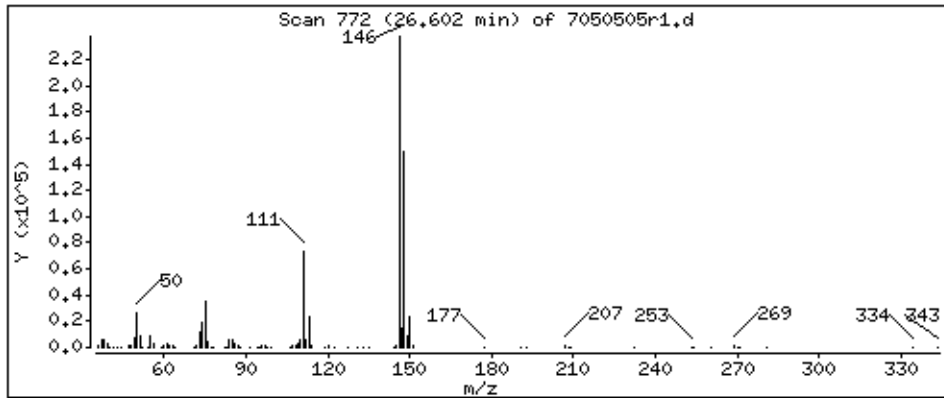
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

85 1,2-Dichlorobenzene

Concentration: 5.210 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

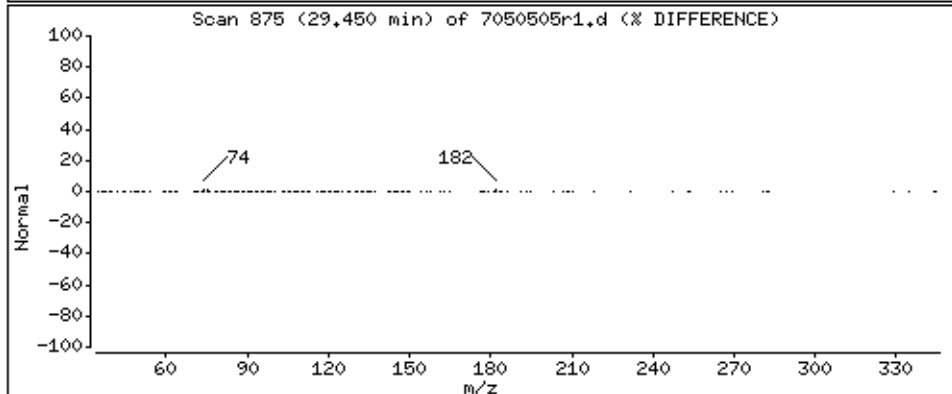
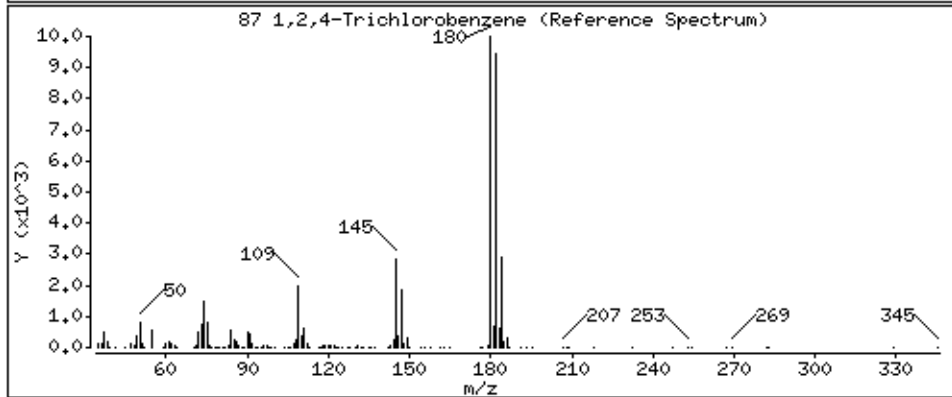
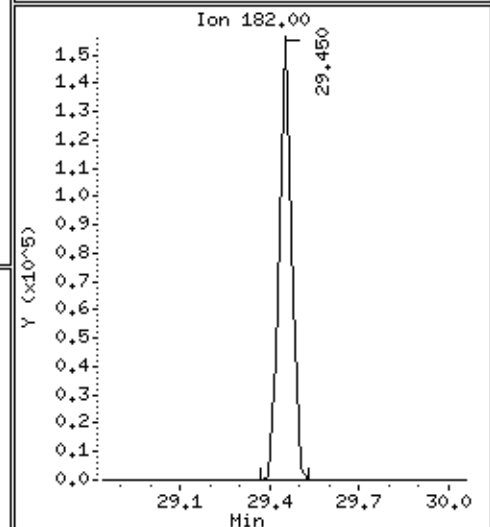
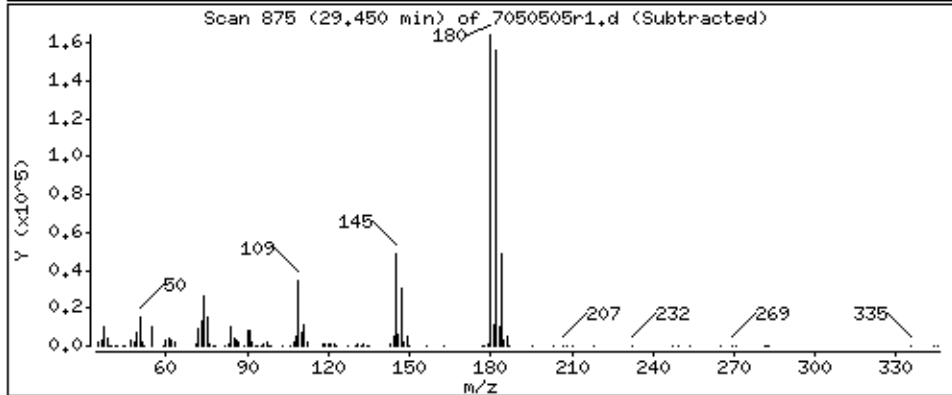
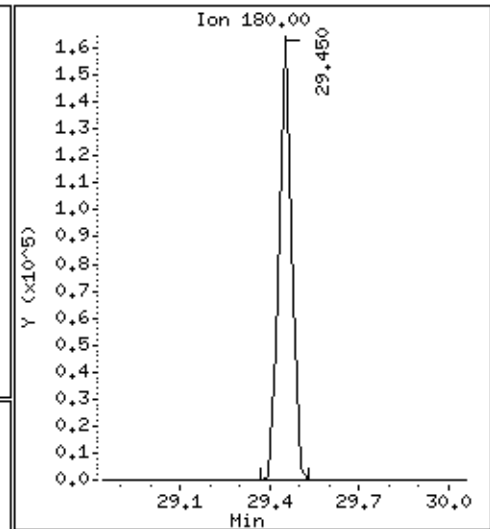
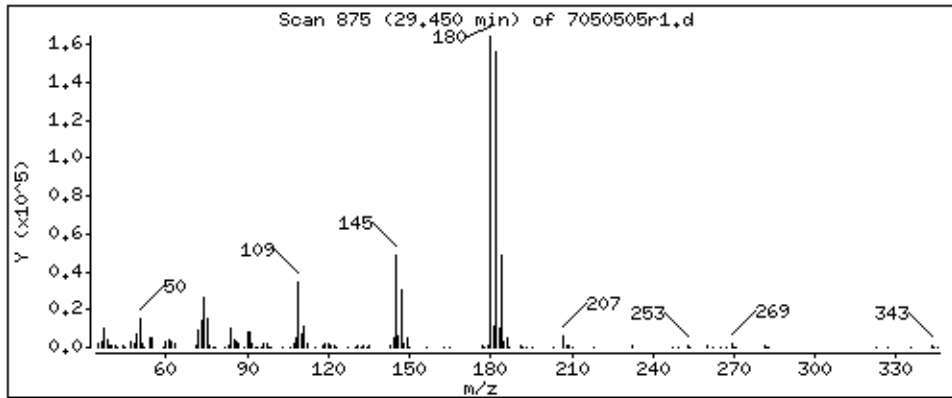
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

87 1,2,4-Trichlorobenzene

Concentration: 8.830 PPBV



Date : 05-MAY-2005 14:55

Client ID: LCS

Instrument: msd7.i

Sample Info: 1282-120 [50ppbv] Can#4334

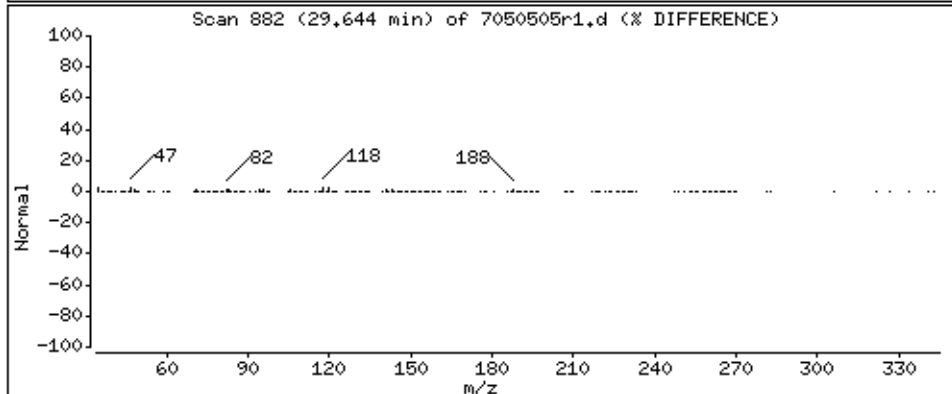
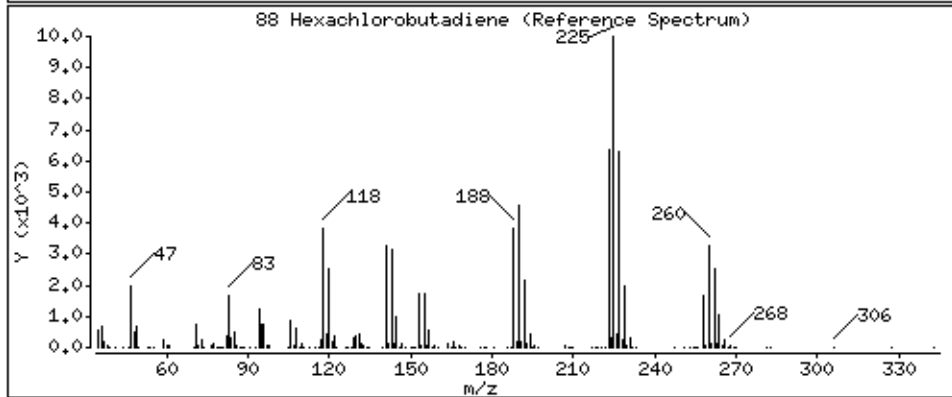
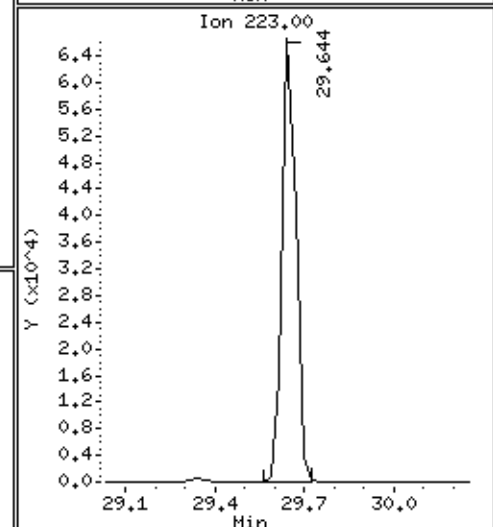
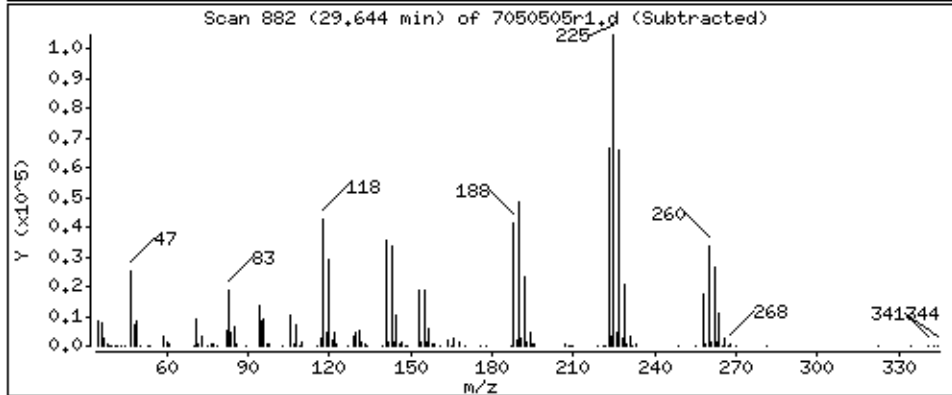
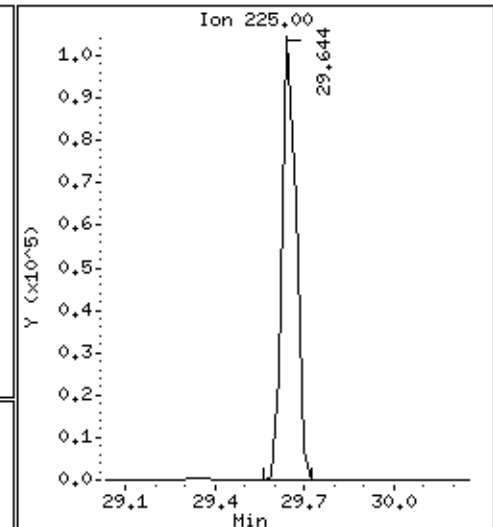
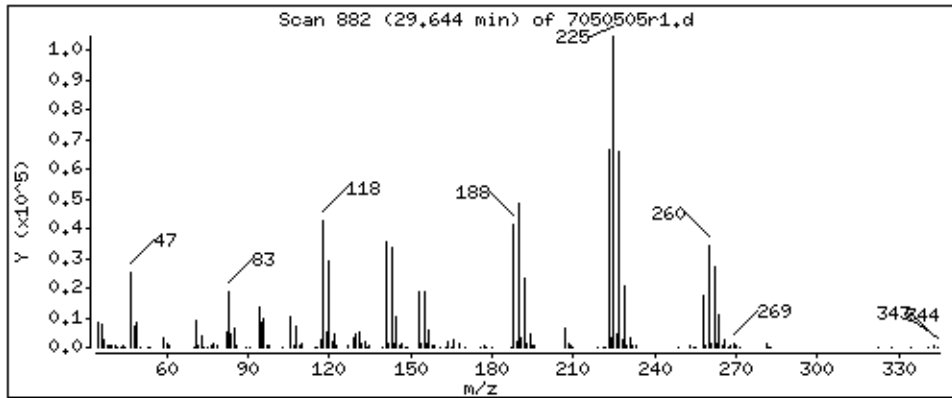
Operator: BD

Column phase: RTX-624

Column diameter: 0.32

88 Hexachlorobutadiene

Concentration: 8.928 PPBV



MSD-7

Logbook #: 1307

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	8.0 - 40.0% of mass 95	
75	30.0 - 66.0% of mass 95	24.64
95	Base peak, 100.00% relative abundance	35.34
96	5.0 - 9.0% of mass 95	100.00
173	Less than 2.0% of mass 174	6.66
174	50.0 - 120.0% of mass 95	(0.63)¹
175	4.0 - 9.0% of mass 174	69.24
176	93.0 - 101.0% of mass 174	(6.96)¹
177	5.0 - 9.0% of mass 176	(95.47)¹

Verify 176/174 m/z Ratio: $\frac{24.64}{25.8560 \times 100} = 95.99\%$

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{std}}} \times \frac{\text{Conc.}_{\text{std}}}{\text{RRF}} = \left(\frac{257032}{273711} \right) \times \left(\frac{10.0}{0.98991} \right) = 9.486 \text{ ppbv}$$

Reported Result 9.486 ppbv

NOAH Cart #: 71/A File #:

BFB Injection Date: 05/05/05
 BFB Injection Time: 1202
 BFB File ID: 7050501
 Tekmar Purge Flow: 3.5/5/5
 Vacuum:
 IS/Std. #: 12982-85 Exp. Date: 7/16/05
 BCM 273711
 1,4-DFB 11907412
 CB-d5 1102533
 Verified CCV IS vs ICAL mid-point (-40%AD) (A)

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	7050501	BFB Tune Check	#843-2104	50.35	24.1	1.00	02	5/5/05	12:02	02/70	
✓	02	#1243-180A + #1852-134	10001111	10/10/05	50mL + 1.25mL	1.00	08		12:02	02/70	100% + 150A
✓	03	#1243-130 (2.00mL)	4167	10/10/05	25mL	1.00	08		12:02	02/70	100% + 150A
✓	04	#1243-180A	10001111	10/10/05	50mL	1.00	08		13:08	02/70	CCV
✓	05	1282-120 (50ppm)	41341	5.00ppm	50mL	1.00	08		13:51	02/70	CCV
✓	06	Lab Blank	12676	Humid	500mL	1.00	08		14:55	02/70	LCS
✓	07	0504451-02A	12005	5.00mL	500mL	1.39	08		16:03	02/70	
✓	08	-03A	33537	4.5mL	500mL	1.39	08		17:09	02/70	E-Hg Etch
✓	09	System Blank	N/A	5.00mL	250mL	1.00	08		18:01	02/70	

Signature: [Signature]

5/5/05

Date

Revision 03/2005

10	✓	7050510	0504472-01A	341338	3.5" Hg → 5.5" Hg →	500mL	1.52	720	5/5/05	19:59	720	
11	X			33774	6.5" Hg → 5.5" Hg →	0.80mL	1070	720		21:12	720	All CMD → RACE 1.00mL
12	✓		-02A	↓	↓	1.60mL	534	720		22:18	720	
13	✓		-03A	20340	6.5" Hg → 4.5" Hg →	500mL	171	720		23:25	720	
14	✓		-03AA	↓	↓	↓ 150 500mL	5.5" Hg → 5.5" Hg →		5/6/05	00:16	720	5/6/05 RACE 50mL
15	X		-04A	31148	4.5" Hg → 4.5" Hg →	500mL	1.00			01:04	720	
16	✓		Blank	12676	Humidist	500mL	1.00			01:59	720	
17	X		0504472-04A	31148	4.5" Hg → 4.5" Hg →	500mL	1.58			02:36	720	IS.4, RACE
18	✓		-05A	33582	4.5" Hg → 4.5" Hg →	500mL	1.65			04:29	720	
19	✓		-04A	31148	4.5" Hg → 4.5" Hg →	60mL	13.2			05:24	720	
20	✓		-06A	14013	4.5" Hg → 4.5" Hg →	500mL	1.75	FA		05:56	720	
21	✓		0504477A-01A	34346	13.5" Hg → 13.5" Hg →	100mL	12.2	FA		16:34	720	
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Comments:

5/6/05

720

Signature

[Signature]

Date

5/6/07

Air Toxics Ltd.

Data file : /var/chem/msd7.i/7-01maya.b/7050111.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 01-MAY-2005 16:49
Operator : jeet Inst ID: msd7.i
Smp Info : #843-2104 BFB-50ng ; BFB; BFB
Misc Info : 2ul
Comment :
Method : /var/chem/msd7.i/7-01maya.b/bfb60.m
Meth Date : 01-May-2005 16:36 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
5.432	5.442	-0.010	95	516309			100.00-	100.00	100.00
5.432	5.442	-0.010	50	127859			15.00-	40.00	24.76
5.432	5.442	-0.010	75	180489			30.00-	60.00	34.96
5.432	5.442	-0.010	96	35374			5.00-	9.00	6.85
5.432	5.442	-0.010	173	2988			0.00-	2.00	0.68
5.432	5.442	-0.010	174	438186			50.00-	100.00	84.87
5.432	5.442	-0.010	175	30661			5.00-	9.00	7.00
5.432	5.442	-0.010	176	422150			95.00-	101.00	96.34
5.432	5.442	-0.010	177	27435			5.00-	9.00	6.50

Data File: /var/chem/msd7.i/7-01maya.b/7050111.d

Page 1

Date : 01-MAY-2005 16:49

Client ID: BFB

Instrument: msd7.i

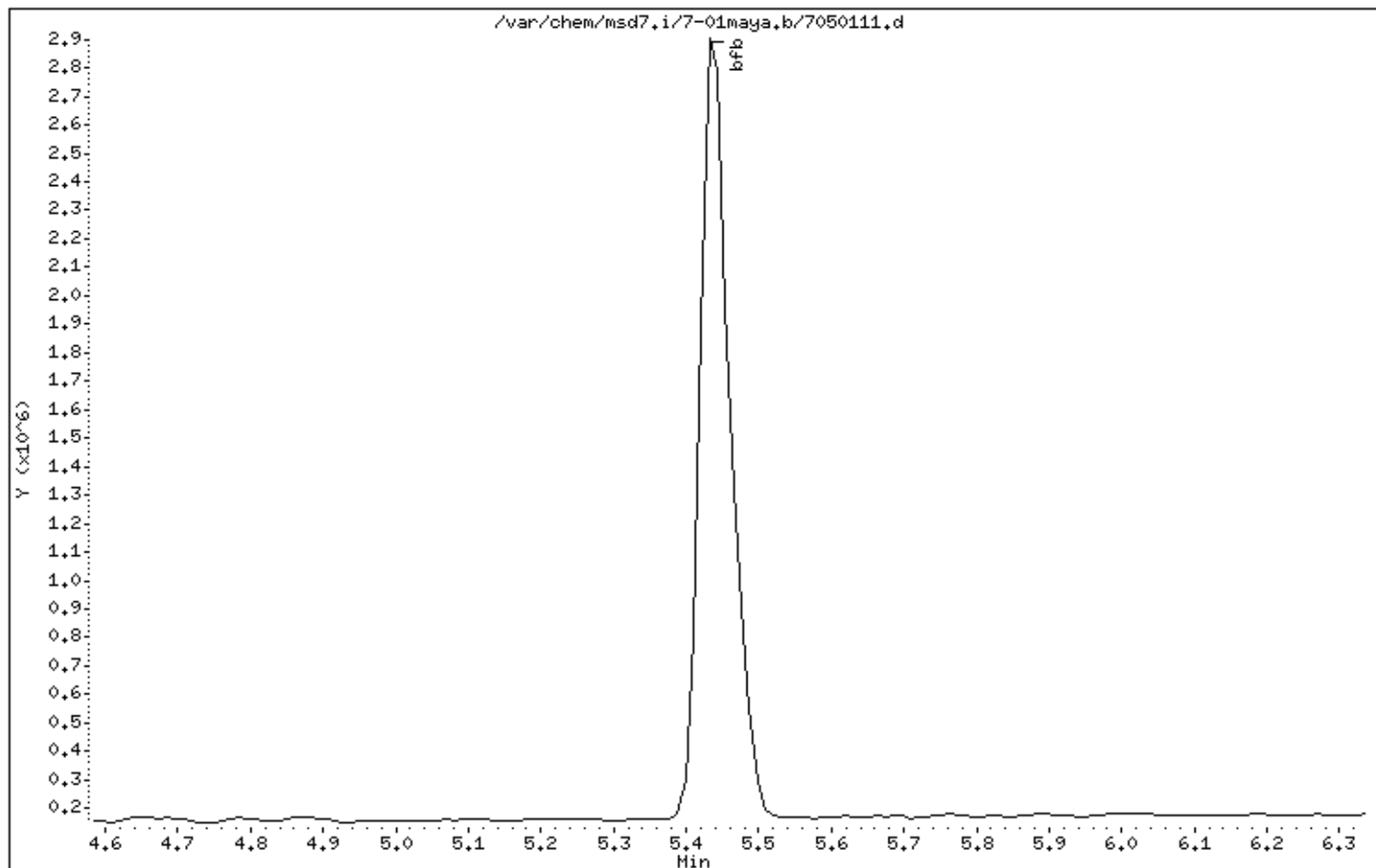
Sample Info: #843-2104 BFB-50ng ; BFB: BFB

Volume Injected (uL): 1.0

Operator: jeet

Column phase:

Column diameter: 0.32



Date : 01-MAY-2005 16:49

Client ID: BFB

Instrument: msd7.i

Sample Info: #843-2104 BFB-50ng ; BFB: BFB

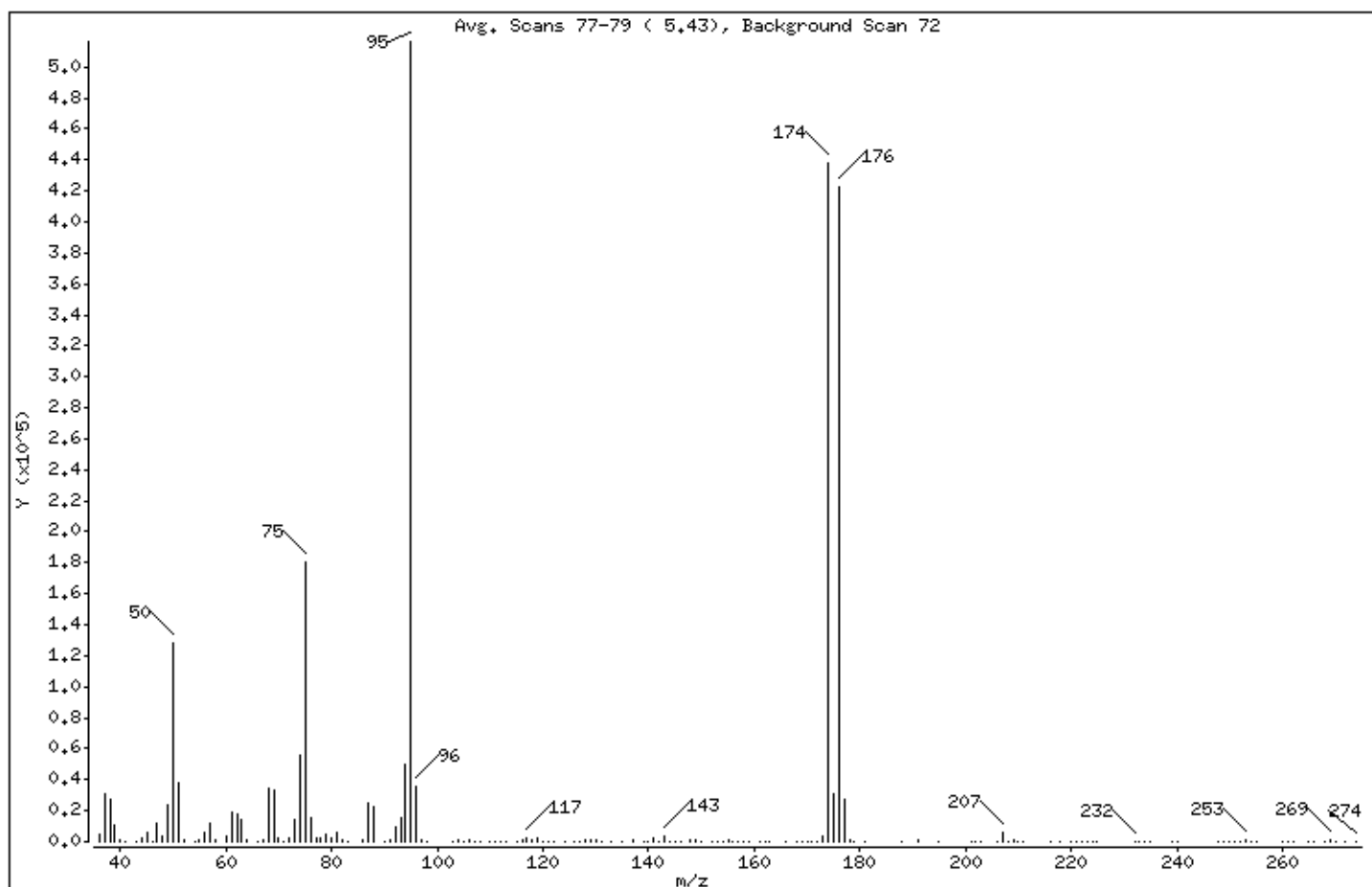
Volume Injected (uL): 1.0

Operator: jeet

Column phase:

Column diameter: 0.32

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	24.76
75	30.00 - 60.00% of mass 95	34.96
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.58 (0.68)
174	50.00 - 100.00% of mass 95	84.87
175	5.00 - 9.00% of mass 174	5.94 (7.00)
176	95.00 - 101.00% of mass 174	81.76 (96.34)
177	5.00 - 9.00% of mass 176	5.31 (6.50)

Date : 01-MAY-2005 16:49

Client ID: BFB

Instrument: msd7.i

Sample Info: #843-2104 BFB-50ng ; BFB: BFB

Volume Injected (uL): 1.0

Operator: jeet

Column phase:

Column diameter: 0.32

Data File: 7050111.d

Spectrum: Avg. Scans 77-79 (5.43), Background Scan 72

Location of Maximum: 95.00

Number of points: 164

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	5077	82.00	1482	139.00	36	206.00	143
37.00	30496	83.00	207	140.00	311	207.00	5730
38.00	26784	86.00	819	141.00	2826	208.00	383
39.00	10775	87.00	25056	142.00	371	209.00	878
40.00	658	88.00	22680	143.00	3051	210.00	34

41.00	103	90.00	107	144.00	303	211.00	153
43.00	59	91.00	1025	145.00	238	216.00	224
44.00	2845	92.00	9246	146.00	557	218.00	109
45.00	5411	93.00	15760	148.00	1056	220.00	37
46.00	203	94.00	49288	149.00	700	221.00	51

47.00	12004	95.00	516288	150.00	461	222.00	65
48.00	3606	96.00	35368	152.00	316	223.00	144
49.00	24136	97.00	1082	153.00	168	224.00	115
50.00	127856	98.00	167	154.00	384	225.00	31
51.00	37504	103.00	289	155.00	1163	232.00	357

52.00	1656	104.00	1242	156.00	3	233.00	63
54.00	58	105.00	368	157.00	582	234.00	17
55.00	1191	106.00	1255	158.00	151	235.00	189
56.00	6421	107.00	335	159.00	457	239.00	172
57.00	12303	108.00	136	161.00	568	240.00	62

58.00	649	110.00	117	162.00	61	248.00	87
60.00	3568	111.00	309	163.00	382	249.00	166
61.00	19208	112.00	54	166.00	15	250.00	65
62.00	17352	113.00	258	168.00	51	251.00	28
63.00	13795	115.00	297	169.00	103	252.00	54

64.00	1230	116.00	1209	170.00	118	253.00	758
66.00	230	117.00	2084	171.00	178	254.00	159
67.00	828	118.00	1070	172.00	547	255.00	156
68.00	34416	119.00	1819	173.00	2988	260.00	412
69.00	33576	120.00	68	174.00	438144	261.00	168

70.00	2456	121.00	68	175.00	30656	262.00	238
71.00	26	122.00	120	176.00	422144	265.00	108
72.00	1838	124.00	247	177.00	27432	266.00	74
73.00	14057	126.00	174	178.00	707	268.00	35
74.00	55520	127.00	19	179.00	91	269.00	753

Date : 01-MAY-2005 16:49

Client ID: BFB

Instrument: msd7.i

Sample Info: #843-2104 BFB-50ng ; BFB: BFB

Volume Injected (uL): 1.0

Operator: jeet

Column phase:

Column diameter: 0.32

Data File: 7050111.d

Spectrum: Avg. Scans 77-79 (5.43), Background Scan 72

Location of Maximum: 95.00

Number of points: 164

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	180480	128.00	1356	181.00	35	270.00	208
76.00	15023	129.00	816	188.00	53	272.00	162
77.00	2329	130.00	1372	191.00	820	274.00	52
78.00	1833	131.00	440	195.00	56		
79.00	5016	133.00	406	201.00	52		
80.00	2053	135.00	504	202.00	56		
81.00	5366	137.00	612	203.00	118		

Air Toxics Ltd.

Data file : /var/chem/msd7.i/7-02maya.b/7050212.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 02-MAY-2005 19:46
Operator : BD Inst ID: msd7.i
Smp Info : BFB Tune Check #843-2104
Misc Info : 2.0uL [50ng]
Comment :
Method : /var/chem/msd7.i/7-02maya.b/bfb60.m
Meth Date : 02-May-2005 19:45 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable

Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
5.465	5.442	0.023	95	237653			100.00-	100.00	100.00
5.465	5.442	0.023	50	61106			15.00-	40.00	25.71
5.465	5.442	0.023	75	85127			30.00-	60.00	35.82
5.465	5.442	0.023	96	15953			5.00-	9.00	6.71
5.465	5.442	0.023	173	1483			0.00-	2.00	0.70
5.465	5.442	0.023	174	212501			50.00-	100.00	89.42
5.465	5.442	0.023	175	14472			5.00-	9.00	6.81
5.465	5.442	0.023	176	206090			95.00-	101.00	96.98
5.465	5.442	0.023	177	13153			5.00-	9.00	6.38

Data File: /var/chem/msd7.i/7-02maya.b/7050212.d

Page 1

Date : 02-MAY-2005 19:46

Client ID: BFB

Instrument: msd7.i

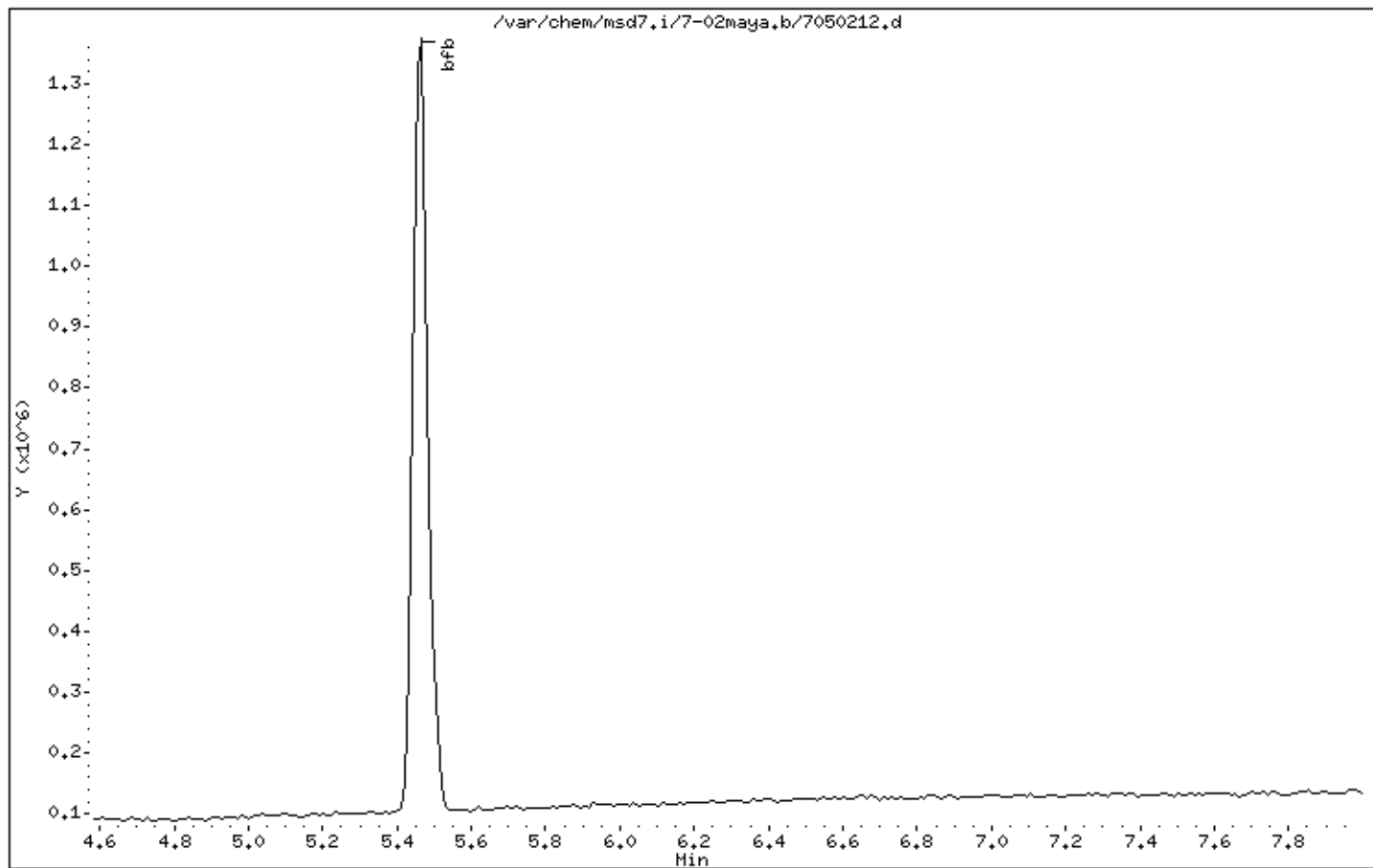
Sample Info: BFB Tune Check #843-2104

Volume Injected (uL): 1.0

Operator: BD

Column phase:

Column diameter: 0.32



Date : 02-MAY-2005 19:46

Client ID: BFB

Instrument: msd7.i

Sample Info: BFB Tune Check #843-2104

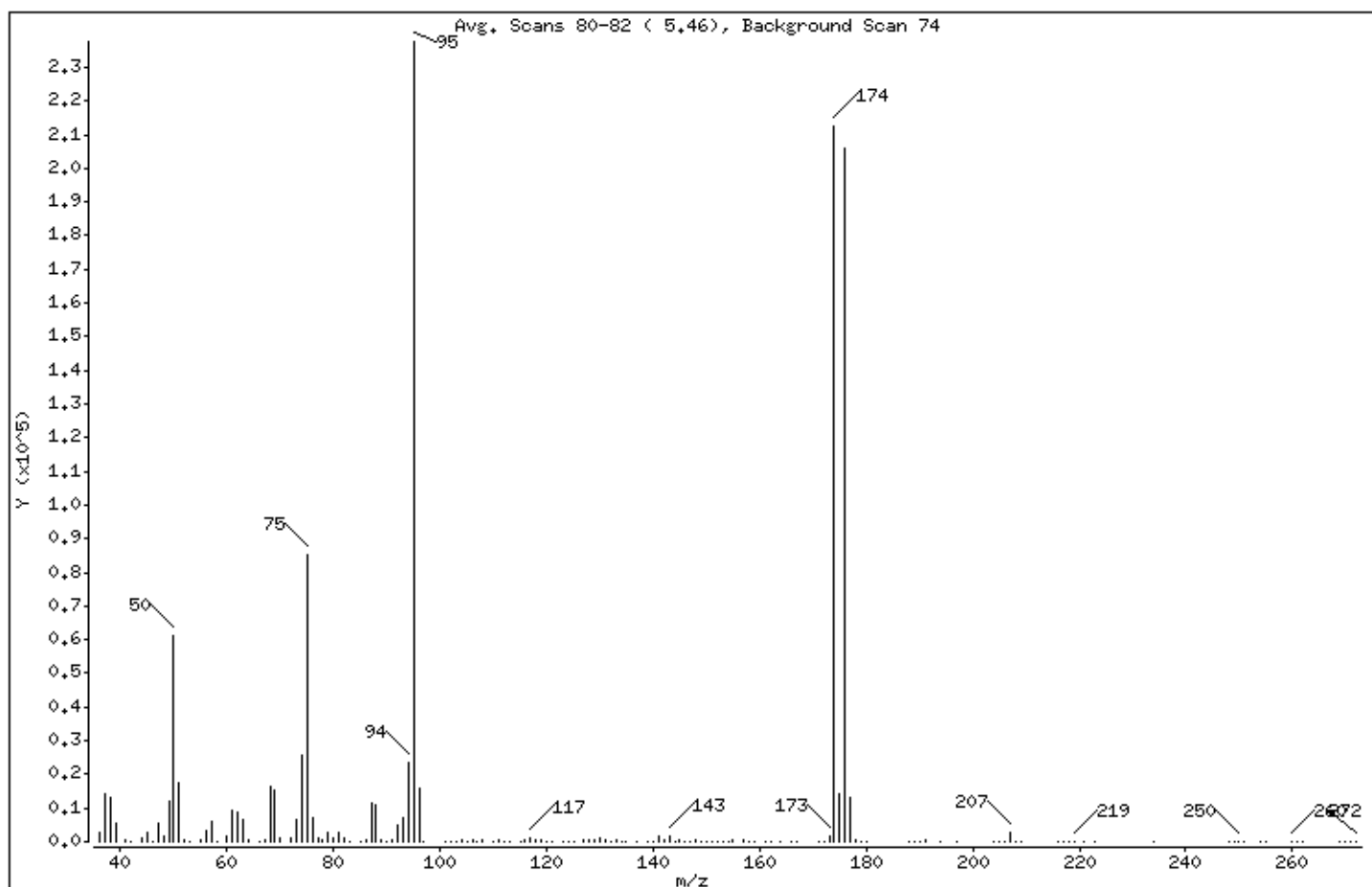
Volume Injected (uL): 1.0

Operator: BD

Column phase:

Column diameter: 0.32

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	25.71
75	30.00 - 60.00% of mass 95	35.82
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.62 (0.70)
174	50.00 - 100.00% of mass 95	89.42
175	5.00 - 9.00% of mass 174	6.09 (6.81)
176	95.00 - 101.00% of mass 174	86.72 (96.98)
177	5.00 - 9.00% of mass 176	5.53 (6.38)

Date : 02-MAY-2005 19:46

Client ID: BFB

Instrument: msd7.i

Sample Info: BFB Tune Check #843-2104

Volume Injected (uL): 1.0

Operator: BD

Column phase:

Column diameter: 0.32

Data File: 7050212.d

Spectrum: Avg. Scans 80-82 (5.46), Background Scan 74

Location of Maximum: 95.00

Number of points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	2480	81.00	2971	128.00	697	176.00	206080
37.00	14293	82.00	832	129.00	372	177.00	13153
38.00	13025	83.00	81	130.00	847	178.00	502
39.00	5315	85.00	65	131.00	528	179.00	99
41.00	527	86.00	285	132.00	46	180.00	67

42.00	47	87.00	11486	133.00	333	188.00	61
44.00	1218	88.00	11118	134.00	54	189.00	223
45.00	2713	89.00	322	135.00	251	190.00	64
46.00	182	90.00	50	137.00	179	191.00	501
47.00	5609	91.00	482	139.00	214	194.00	116

48.00	1575	92.00	4823	140.00	62	197.00	120
49.00	12064	93.00	7278	141.00	1522	204.00	120
50.00	61104	94.00	23432	142.00	324	205.00	129
51.00	17528	95.00	237632	143.00	1636	206.00	72
52.00	699	96.00	15953	144.00	212	207.00	2917

53.00	37	97.00	244	145.00	320	208.00	139
55.00	477	101.00	55	146.00	250	209.00	264
56.00	3149	102.00	51	147.00	140	216.00	57
57.00	6211	103.00	101	148.00	471	217.00	59
58.00	98	104.00	521	149.00	155	218.00	124

60.00	1855	105.00	177	150.00	269	219.00	211
61.00	9019	106.00	762	151.00	64	221.00	71
62.00	8965	107.00	269	152.00	143	223.00	20
63.00	6736	108.00	282	153.00	163	234.00	27
64.00	601	110.00	68	154.00	64	248.00	50

66.00	62	111.00	327	155.00	608	249.00	185
67.00	587	112.00	110	157.00	536	250.00	210
68.00	16241	113.00	67	158.00	252	251.00	37
69.00	15263	115.00	227	159.00	175	254.00	99
70.00	1333	116.00	512	161.00	91	255.00	8

72.00	836	117.00	1066	162.00	72	260.00	247
73.00	6644	118.00	585	164.00	175	261.00	221
74.00	25416	119.00	544	166.00	132	262.00	123
75.00	85120	120.00	254	167.00	160	269.00	116
76.00	7036	121.00	50	171.00	125	270.00	142

Data File: /var/chem/msd7.i/7-02maya.b/7050212.d

Page 4

Date : 02-MAY-2005 19:46

Client ID: BFB

Instrument: msd7.i

Sample Info: BFB Tune Check #843-2104

Volume Injected (uL): 1.0

Operator: BD

Column phase:

Column diameter: 0.32

Data File: 7050212.d

Spectrum: Avg. Scans 80-82 (5.46), Background Scan 74

Location of Maximum: 95.00

Number of points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	997	123.00	147	172.00	223	271.00	92
78.00	819	124.00	70	173.00	1483	272.00	194
79.00	2573	125.00	61	174.00	212480		
80.00	1172	127.00	336	175.00	14472		

Air Toxics Ltd.

Data file : /var/chem/msd7.i/7-05may.b/7050501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 05-MAY-2005 12:02
Operator : AB Inst ID: msd7.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL#843-2104
Comment :
Method : /var/chem/msd7.i/7-05may.b/bfb60.m
Meth Date : 05-May-2005 12:00 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable

Local Compound Variable

					CONCENTRATIONS				
					ON-COL	FINAL			
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
5.476	5.442	0.034	95	289770			100.00-	100.00	100.00
5.476	5.442	0.034	50	71400			15.00-	40.00	24.64
5.476	5.442	0.034	75	102538			30.00-	60.00	35.39
5.476	5.442	0.034	96	19291			5.00-	9.00	6.66
5.476	5.442	0.034	173	1642			0.00-	2.00	0.63
5.476	5.442	0.034	174	258602			50.00-	100.00	89.24
5.476	5.442	0.034	175	17996			5.00-	9.00	6.96
5.476	5.442	0.034	176	248190			95.00-	101.00	95.97
5.476	5.442	0.034	177	16041			5.00-	9.00	6.46

Data File: /var/chem/msd7.i/7-05may.b/7050501.d

Page 1

Date : 05-MAY-2005 12:02

Client ID: BFB

Instrument: msd7.i

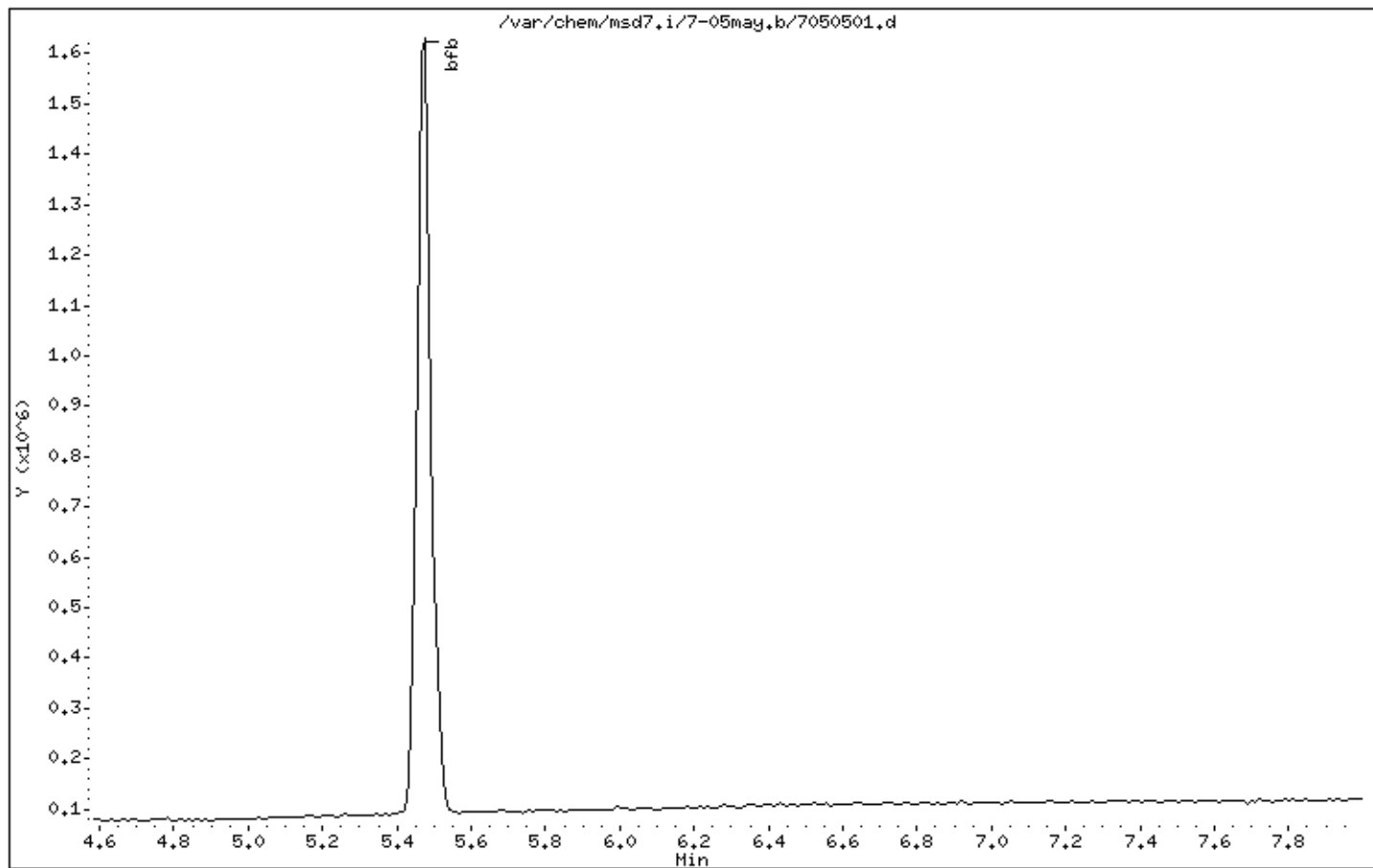
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: AB

Column phase:

Column diameter: 0.32



Date : 05-MAY-2005 12:02

Client ID: BFB

Instrument: msd7.i

Sample Info: BFB Tune Check

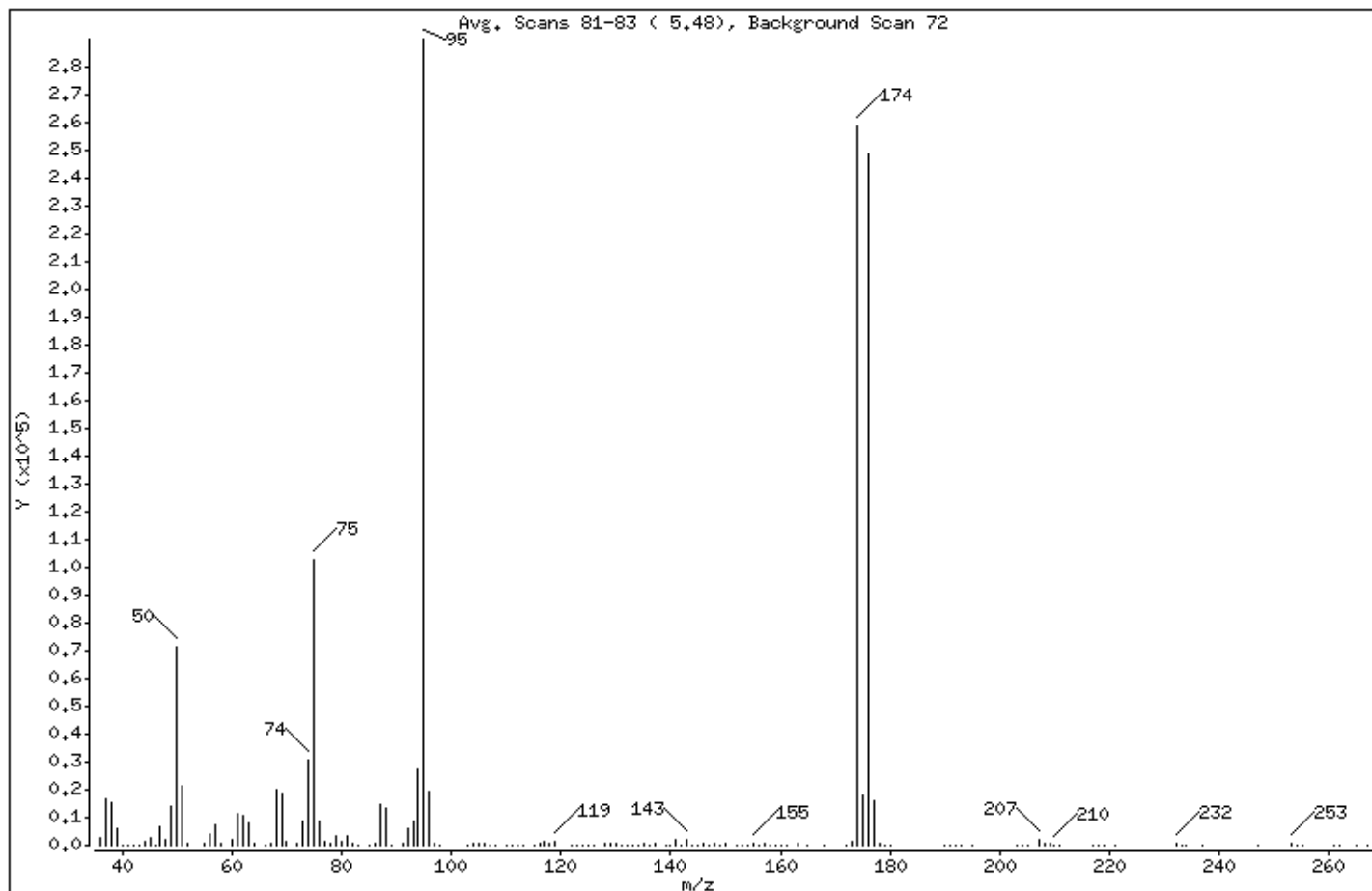
Volume Injected (uL): 1.0

Operator: AB

Column phase:

Column diameter: 0.32

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	24.64
75	30.00 - 60.00% of mass 95	35.39
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.57 (0.63)
174	50.00 - 100.00% of mass 95	89.24
175	5.00 - 9.00% of mass 174	6.21 (6.96)
176	95.00 - 101.00% of mass 174	85.65 (95.97)
177	5.00 - 9.00% of mass 176	5.54 (6.46)

Date : 05-MAY-2005 12:02

Client ID: BFB

Instrument: msd7.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: AB

Column phase:

Column diameter: 0.32

Data File: 7050501.d

Spectrum: Avg. Scans 81-83 (5.48), Background Scan 72

Location of Maximum: 95.00

Number of points: 149

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	2766	79.00	3582	128.00	902	175.00	17992
37.00	16323	80.00	1363	129.00	538	176.00	248128
38.00	15237	81.00	3493	130.00	744	177.00	16041
39.00	5770	82.00	882	131.00	269	178.00	555
40.00	95	83.00	154	132.00	7	179.00	74

41.00	323	85.00	62	133.00	319	180.00	51
42.00	59	86.00	392	134.00	97	190.00	110
43.00	86	87.00	14352	135.00	492	191.00	189
44.00	1610	88.00	13415	136.00	41	192.00	57
45.00	2727	89.00	134	137.00	557	193.00	173

46.00	256	91.00	459	139.00	76	195.00	175
47.00	6629	92.00	5664	140.00	187	203.00	61
48.00	1817	93.00	8969	141.00	1852	204.00	50
49.00	14031	94.00	27472	142.00	296	205.00	268
50.00	71400	95.00	289728	143.00	2146	207.00	2048

51.00	21032	96.00	19288	144.00	119	208.00	484
52.00	875	97.00	574	145.00	307	209.00	393
55.00	757	98.00	52	146.00	379	210.00	153
56.00	3908	103.00	137	147.00	164	211.00	111
57.00	7383	104.00	588	148.00	528	217.00	50

58.00	410	105.00	334	149.00	94	218.00	72
60.00	2225	106.00	828	150.00	348	219.00	95
61.00	11310	107.00	151	152.00	55	221.00	22
62.00	10344	108.00	57	153.00	276	232.00	389
63.00	8088	110.00	110	154.00	183	233.00	25

64.00	644	111.00	200	155.00	690	234.00	148
66.00	59	112.00	173	156.00	113	237.00	76
67.00	719	113.00	143	157.00	589	247.00	123
68.00	19704	115.00	260	158.00	123	253.00	449
69.00	18688	116.00	619	159.00	146	254.00	224

70.00	1452	117.00	1121	160.00	60	255.00	120
72.00	918	118.00	730	161.00	216	261.00	52
73.00	8432	119.00	1157	163.00	376	262.00	54
74.00	30320	122.00	69	165.00	106	265.00	34
75.00	102536	123.00	109	168.00	56	267.00	81

Data File: /var/chem/msd7.i/7-05may.b/7050501.d

Page 4

Date : 05-MAY-2005 12:02

Client ID: BFB

Instrument: msd7.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: AB

Column phase:

Column diameter: 0.32

Data File: 7050501.d

Spectrum: Avg. Scans 81-83 (5.48), Background Scan 72

Location of Maximum: 95.00

Number of points: 149

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	8423	124.00	137	172.00	298		
77.00	1613	125.00	44	173.00	1642		
78.00	994	126.00	80	174.00	258560		

Shipping/ Receiving Documents



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**180 Blue Ravine Road, Suite B
Folsom, CA 95630**

**Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific**

COMPANY: _____ ERM-New England
ATTENTION: _____ Mr. Jeremy Wolf
FAX #: _____ 585-387-0603
FROM: _____ Sample Receiving
Workorder #: _____ 0504472
of pages (Including Cover): _____ 1
5/12/2005

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Ausha Scott at 916-985-1020**. ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Contact Person Jeremy Wolf

Company ERM

Address 1159 Pittsford City Pittsford State NY Zip 14534

Phone 585-899-9885 Fax 585-387-0603

Collected by: (Signature)

Project Info:

P.O. # 0021427

Project # 0021427 Phase 2

Project Name NYSDEC Former Aero

Turn Around Time:

☒ Normal

☐ Rush

specify

Lab Use Only

Pressurized by: DS

Date: 4/23/05

Pressurization Gas: (N) He

Lab I.D. Field Sample I.D. (Location)

Date

Time

Analyses Requested

Canister Pressure/Vacuum

Initial Final Receipt Final (gms)

01A IA - A01

4/21/05

1310

TO-15

-30

-553.54 5.04

02A SV - A01

4/21/05

1305

TO-15

-28

-6 6.54

03A IA - A02

4/21/05

1315

TO-15

-28

-7 6.54

04A SV - A02

4/21/05

1317

TO-15

-29

-5.54 5.44

05A IA - A03

4/21/05

1248

TO-15

-30

-6 6.04

06A AA - R01

4/21/05

1250

TO-15

-29

-9 7.04

Relinquished by: (signature)

Date/Time

Received by: (signature)

Date/Time

Notes:

Relinquished by: (signature)

Date/Time

Received by: (signature)

Date/Time

Relinquished by: (signature)

Date/Time

Received by: (signature)

Date/Time

Shipper Name

Air Bill #

Temp (°C)

Condition

Custody Seals Intact?

Work Order #

Lab Use Only

Felix

849365950716

-

good

Yes No

(None)

0504478

with the exception of AA-R01
which is a 2-Hour sample. Tons also are
start times

All samples are 24 Hour samples

SAMPLE RECEIPT SUMMARY

WORKORDER 0504472

Client

Mr. Jeremy Wolf
ERM-New England
1159 Pittsford-Victor Road
Suite 200
Pittsford, NY 14534

Phone

585-387-0510 x26

Fax

585-387-0603

Date Promised: 05/06/05 9 pm

Date Completed: 5/11/05

Date Received: 4/25/05

PO#: 0021427

Project#: 0021427 Phase 2 NYSDEC-Former Raeco

Total \$: \$ 3,099.12

Sales Rep: JLJ

Logged By: MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt</u>	<u>Amount\$</u>
				<u>Vac./Pres.</u>	
01A	IA-A01	Modified TO-15	4/21/2005	3.5 "Hg	\$225.00
02A	SV-A01	Modified TO-15	4/21/2005	6.5 "Hg	\$225.00
03A	IA-A02	Modified TO-15	4/21/2005	6.5 "Hg	\$225.00
03AA	IA-A02 Duplicate	Modified TO-15	4/21/2005	6.5 "Hg	\$0.00
04A	SV-A02	Modified TO-15	4/21/2005	4.5 "Hg	\$225.00
05A	IA-A03	Modified TO-15	4/21/2005	6.0 "Hg	\$225.00
06A	AA-R01	Modified TO-15	4/21/2005	7.0 "Hg	\$225.00
07A	Lab Blank	Modified TO-15	NA	NA	\$0.00
08A	CCV	Modified TO-15	NA	NA	\$0.00
09A	LCS	Modified TO-15	NA	NA	\$0.00

Misc. Charges ECVP (6) @ \$10.00 each.	\$60.00
6 Liter Summa Canister (100% Certified) (13) @ \$75.00 each.	\$975.00
Flow Controller-24 hr (100% Certified) (13) @ \$35.00 each.	\$455.00
Tubing-Teflon (30) @ \$2.00 each., \$2/ft	\$60.00
Shipping Charges (Shipped Overnight 4/15/05)	\$199.12

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: /7638

BILL TO: Mr. Jeremy Wolf
ERM-New England
1159 Pittsford-Victor Road
Suite 200
Pittsford, NY 14534

Analysis Code: pptv

Reporting Method: Modified TO-15-LL

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

Modified TO-15-LL

CAS Number	Compound	Detection Limit	Type
		ppbv	
75-71-8	Freon 12	0.10	
76-14-2	Freon 114	0.10	
71-43-2	Benzene	0.10	
107-06-2	1,2-Dichloroethane	0.10	
142-82-5	Heptane	0.50	
79-01-6	Trichloroethene	0.10	
78-87-5	1,2-Dichloropropane	0.10	
123-91-1	1,4-Dioxane	0.50	
75-27-4	Bromodichloromethane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.10	
108-10-1	4-Methyl-2-pentanone	0.50	
108-88-3	Toluene	0.10	
10061-02-6	trans-1,3-Dichloropropene	0.10	
79-00-5	1,1,2-Trichloroethane	0.10	
127-18-4	Tetrachloroethene	0.10	
591-78-6	2-Hexanone	0.50	
124-48-1	Dibromochloromethane	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.10	
108-90-7	Chlorobenzene	0.10	
100-41-4	Ethyl Benzene	0.10	
108-38-3	m,p-Xylene	0.10	
95-47-6	o-Xylene	0.10	
100-42-5	Styrene	0.10	
75-25-2	Bromoform	0.50	
98-82-8	Cumene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.10	
103-65-1	Propylbenzene	0.50	
622-96-8	4-Ethyltoluene	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.10	
95-63-6	1,2,4-Trimethylbenzene	0.10	
541-73-1	1,3-Dichlorobenzene	0.10	
106-46-7	1,4-Dichlorobenzene	0.10	
100-44-7	alpha-Chlorotoluene	0.10	
95-50-1	1,2-Dichlorobenzene	0.10	
120-82-1	1,2,4-Trichlorobenzene	0.50	
87-68-3	Hexachlorobutadiene	0.50	
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		
460-00-4	4-Bromofluorobenzene		
74-87-3	Chloromethane	0.10	
75-01-4	Vinyl Chloride	0.10	
106-99-0	1,3-Butadiene	0.50	
74-83-9	Bromomethane	0.10	
75-00-3	Chloroethane	0.10	
75-69-4	Freon 11	0.10	
64-17-5	Ethanol	0.50	

Compound Listing

Modified TO-15-LL

CAS Number	Compound	Detection Limit	Type
		ppbv	
76-13-1	Freon 113	0.10	
75-35-4	1,1-Dichloroethene	0.10	
67-64-1	Acetone	0.50	
67-63-0	2-Propanol	0.50	
75-15-0	Carbon Disulfide	0.50	
75-09-2	Methylene Chloride	0.20	
1634-04-4	Methyl tert-butyl ether	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	
110-54-3	Hexane	0.50	
75-34-3	1,1-Dichloroethane	0.10	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
156-59-2	cis-1,2-Dichloroethene	0.10	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.10	
71-55-6	1,1,1-Trichloroethane	0.10	
110-82-7	Cyclohexane	0.50	
56-23-5	Carbon Tetrachloride	0.10	

APR 15 2005

01A

ZC 5912
5/24/1515

Certification Report

Canister Number: F041438; 6L w/24hr #54-13

Can#34338:1

Date: 4/14/2005 Time: 23:12:17

Calibration:

Operator: Administrator

Page: 1

Dilution Factor: 1.00

ATL TOF

CERTIFICATION

Peak #	Name	RT (s)	Expected Analyte RT (s)	Found	Conc	Units
	Dichlorodifluoromethane/Fr.12/TO150329e		110.644	Not Found	0.000	ppbv
	Freon 114/TO150329e		134.644	Not Found	0.000	ppbv
	Chloromethane/TO150329e		139.644	Not Found	0.000	ppbv
	Vinyl Chloride/TO150329e		154.244	Not Found	0.000	ppbv
	1,3-Butadiene/TO150329e		157.744	Not Found	0.000	ppbv
	Bromomethane/TO150329e		181.844	Not Found	0.000	ppbv
	Chloroethane/TO150329e		189.544	Not Found	0.000	ppbv
	Isopentane/TO150329e		191.625	Not Found	0.000	ppbv
	Vinyl bromide/TO150329e		199.688	Not Found	0.000	ppbv
	Trichlorofluoromethane/Fr.11/TO150329e		201.644	Not Found	0.000	ppbv
	Freon 113/TO150329e		224.244	Not Found	0.000	ppbv
	1,1-Dichloroethene/TO150329e		224.503	Not Found	0.000	ppbv
	3-Chloroprene/TO150329e		237.944	Not Found	0.000	ppbv
	2-Methylpentane/TO150329e		238.925	Not Found	0.000	ppbv
	trans-1,2-Dichloroethene/TO150329e		249.044	Not Found	0.000	ppbv
	MTBE/TO150329e		249.344	Not Found	0.000	ppbv
	Acrylonitrile/TO150329e		252.488	Not Found	0.000	ppbv
	Hexane/TO150329e		253.844	Not Found	0.000	ppbv
	1,1-Dichloroethane/TO150329e		261.644	Not Found	0.000	ppbv
	Chloroprene/TO150329e		262.525	Not Found	0.000	ppbv
	Vinyl Acetate/TO150329e		262.544	Not Found	0.000	ppbv
	cis-1,2-Dichloroethene/TO150329e		276.044	Not Found	0.000	ppbv
	Ethyl Acetate/TO150329e		277.144	Not Found	0.000	ppbv
	Chloroform/TO150329e		283.144	Not Found	0.000	ppbv
	2,3-Dimethylpentane/TO150329e		285.725	Not Found	0.000	ppbv
	Cyclohexane/TO150329e		286.244	Not Found	0.000	ppbv
	1,1,1-Trichloroethane/TO150329e		286.744	Not Found	0.000	ppbv
	Carbon Tetrachloride/TO150329e		289.644	Not Found	0.000	ppbv
	2,2,4-Trimethylpentane/TO150329e		293.744	Not Found	0.000	ppbv
	Heptane/TO150329e		297.444	Not Found	0.000	ppbv
	1,2-Dichloroethane/TO150329e		297.803	Not Found	0.000	ppbv
	Thiophene/TO150329e		300.325	Not Found	0.000	ppbv
	Trichloroethene/TO150329e		309.544	Not Found	0.000	ppbv
	1,2-Dichloropropane/TO150329e		316.144	Not Found	0.000	ppbv
	1,4-Dioxane/TO150329e		318.944	Not Found	0.000	ppbv
	Bromodichloromethane/TO150329e		321.744	Not Found	0.000	ppbv
	cis-1,3-Dichloropropene/TO150329e		331.744	Not Found	0.000	ppbv
	4-Methyl-2-pentanone/TO150329e		334.644	Not Found	0.000	ppbv

Certification Report

Canister Number: F041438; 6L w/24hr #54-13

Can#34338:1

Date: 4/14/2005 Time: 23:12:17

Calibration:

Operator: Administrator

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Dilution Factor: 1.00

ATL TOF

CERTIFICATION

Peak #	Name	RT (S)	Expected/Analytical RT (S)	Type	Conc.	Units
	Toluene/TO150329e		338.544	Not Found	0.000	ppbv
	trans-1,3-Dichloropropene/ TO150329e		344.844	Not Found	0.000	ppbv
	1,1,2-Trichloroethane/TO150329e		349.744	Not Found	0.000	ppbv
	Tetrachloroethene/TO150329e		351.244	Not Found	0.000	ppbv
	2-Hexanone/TO150329e		354.444	Not Found	0.000	ppbv
	Dibromochloromethane/TO150329e		359.944	Not Found	0.000	ppbv
	1,2-Dibromoethane/TO150329e		364.244	Not Found	0.000	ppbv
	Chlorobenzene/TO150329e		377.144	Not Found	0.000	ppbv
	Ethylbenzene/TO150329e		378.444	Not Found	0.000	ppbv
	m,p-Xylene/TO150329e		382.144	Not Found	0.000	ppbv
	o-Xylene/TO150329e		396.544	Not Found	0.000	ppbv
	Styrene/TO150329e		397.444	Not Found	0.000	ppbv
	Bromoform/TO150329e		406.644	Not Found	0.000	ppbv
	Cumene/TO150329e		409.044	Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane/ TO150329e		422.144	Not Found	0.000	ppbv
	Propylbenzene/TO150329e		423.544	Not Found	0.000	ppbv
	4-Ethyltoluene/TO150329e		427.344	Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene/TO150329e		429.444	Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene/TO150329e		442.244	Not Found	0.000	ppbv
	1,3-Dichlorobenzene/TO150329e		452.944	Not Found	0.000	ppbv
	1,4-Dichlorobenzene/TO150329e		455.844	Not Found	0.000	ppbv
	alpha-Chlorotoluene/TO150329e		460.144	Not Found	0.000	ppbv
	Indane/TO150329e		462.125	Not Found	0.000	ppbv
	1,2-Dichlorobenzene/TO150329e		467.544	Not Found	0.000	ppbv
	Indene/TO150329e		469.225	Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene/TO150329e		511.344	Not Found	0.000	ppbv
	Hexachlorobutadiene/TO150329e		513.544	Not Found	0.000	ppbv
	Naphthalene/TO150329e		517.725	Not Found	0.000	ppbv
2	Propene	103.556	101.344	Quantified	0.05071	ppbv
6	Ethanol	218.756	219.344	Quantified	0.05175	ppbv
7	Carbon disulfide	229.656	229.844	Quantified	0.03218	ppbv
8	Acetone	230.856	231.444	Quantified	0.2369	ppbv
9	2-Propanol	236.456	237.144	Quantified	0.01571	ppbv
10	Acetonitrile	241.056	241.588	Quantified	0.07790	ppbv
11	Methylene Chloride	242.456	242.744	Quantified	0.03472	ppbv
12	2-Butanone	272.156	277.644	Quantified	0.04830	ppbv
14	Bromochloromethane-IS	281.656	282.044	Quantified	0.000	ppbv
15	Tetrahydrofuran	282.556	283.744	Quantified	0.01550	ppbv

Certification Report

Canister Number: F041438; 6L w/24hr #54-13

Can#34338:1

Date: 4/14/2005 Time: 23:12:17

Calibration:

Operator: Administrator

Page: 3

Dilution Factor: 1.00

ATL TOF

CERTIFICATION

Peak #	Name	RT (S)	Expanded Name RT (S)	Type	Conc	Units
16	Benzene	294.956	295.344	Quantified	0.01789	ppbv
17	1,2-Dichloroethane-d4	295.256	295.744	Quantified	5.540 ✓	ppbv
18	1,4-Dichlorobenzene-IS	303.456	303.944	Quantified	0.000 ✓	ppbv
19	Toluene-D8	336.456	336.944	Quantified	4.477 ✓	ppbv
22	Chlorobenzene-d5-IS	375.356	376.144	Quantified	0.000 ✓	ppbv
24	Bromofluorobenzene	416.256	417.144	Quantified	5.462 ✓	ppbv

**PASSED
CERTIFICATION**

APR 15 2005

Certification Report

Canister Number: F041430; 6L w/24hr #03-10

Can#33774:1

Date: 4/14/2005 Time: 21:06:52

Calibration:

Operator: Administrator

Dilution Factor: 1.00

Page: 1

ATL TOF
CERTIFICATION

Peak #	Name	RT (s)	Expected Analyte RT (s)	Type	Conc	Units
	Dichlorodifluoromethane/Fr.12/ TO150329e		110.644	Not Found	0.000	ppbv
	Freon 114/TO150329e		134.644	Not Found	0.000	ppbv
	Chloromethane/TO150329e		139.644	Not Found	0.000	ppbv
	Vinyl Chloride/TO150329e		154.244	Not Found	0.000	ppbv
	1,3-Butadiene/TO150329e		157.744	Not Found	0.000	ppbv
	Bromomethane/TO150329e		181.844	Not Found	0.000	ppbv
	Chloroethane/TO150329e		189.544	Not Found	0.000	ppbv
	Isopentane/TO150329e		191.625	Not Found	0.000	ppbv
	Vinyl bromide/TO150329e		199.688	Not Found	0.000	ppbv
	Trichlorofluoromethane/Fr.11/ TO150329e		201.644	Not Found	0.000	ppbv
	Freon 113/TO150329e		224.244	Not Found	0.000	ppbv
	1,1-Dichloroethene/TO150329e		224.503	Not Found	0.000	ppbv
	3-Chloroprene/TO150329e		237.944	Not Found	0.000	ppbv
	2-Methylpentane/TO150329e		238.925	Not Found	0.000	ppbv
	trans-1,2-Dichloroethene/ TO150329e		249.044	Not Found	0.000	ppbv
	MTBE/TO150329e		249.344	Not Found	0.000	ppbv
	Acrylonitrile/TO150329e		252.488	Not Found	0.000	ppbv
	Hexane/TO150329e		253.844	Not Found	0.000	ppbv
	1,1-Dichloroethane/TO150329e		261.644	Not Found	0.000	ppbv
	Chloroprene/TO150329e		262.525	Not Found	0.000	ppbv
	Vinyl Acetate/TO150329e		262.544	Not Found	0.000	ppbv
	cis-1,2-Dichloroethene/TO150329e		276.044	Not Found	0.000	ppbv
	Ethyl Acetate/TO150329e		277.144	Not Found	0.000	ppbv
	Chloroform/TO150329e		283.144	Not Found	0.000	ppbv
	2,3-Dimethylpentane/TO150329e		285.725	Not Found	0.000	ppbv
	Cyclohexane/TO150329e		286.244	Not Found	0.000	ppbv
	1,1,1-Trichloroethane/TO150329e		286.744	Not Found	0.000	ppbv
	Carbon Tetrachloride/TO150329e		289.644	Not Found	0.000	ppbv
	2,2,4-Trimethylpentane/TO150329e		293.744	Not Found	0.000	ppbv
	Heptane/TO150329e		297.444	Not Found	0.000	ppbv
	1,2-Dichloroethane/TO150329e		297.803	Not Found	0.000	ppbv
	Thiophene/TO150329e		300.325	Not Found	0.000	ppbv
	Trichloroethene/TO150329e		309.544	Not Found	0.000	ppbv
	1,2-Dichloropropane/TO150329e		316.144	Not Found	0.000	ppbv
	1,4-Dioxane/TO150329e		318.944	Not Found	0.000	ppbv
	Bromodichloromethane/TO150329e		321.744	Not Found	0.000	ppbv

Certification Report

Canister Number: F041430; 6L w/24hr #03-10

Can#33774:1

Date: 4/14/2005 Time: 21:06:52

Calibration:

Operator: Administrator

Page: 2

Dilution Factor: 1.00

ATL TOF

CERTIFICATION

Peak #	Name	RT (s)	Expected/Actual RT (s)	Type	Conc	Units
	cis-1,3-Dichloropropene/TO150329e		331.744	Not Found	0.000	ppbv
	4-Methyl-2-pentanone/TO150329e		334.644	Not Found	0.000	ppbv
	Toluene/TO150329e		338.544	Not Found	0.000	ppbv
	trans-1,3-Dichloropropene/TO150329e		344.844	Not Found	0.000	ppbv
	1,1,2-Trichloroethane/TO150329e		349.744	Not Found	0.000	ppbv
	Tetrachloroethene/TO150329e		351.244	Not Found	0.000	ppbv
	2-Hexanone/TO150329e		354.444	Not Found	0.000	ppbv
	Dibromochloromethane/TO150329e		359.944	Not Found	0.000	ppbv
	1,2-Dibromoethane/TO150329e		364.244	Not Found	0.000	ppbv
	Chlorobenzene/TO150329e		377.144	Not Found	0.000	ppbv
	Ethylbenzene/TO150329e		378.444	Not Found	0.000	ppbv
	m,p-Xylene/TO150329e		382.144	Not Found	0.000	ppbv
	o-Xylene/TO150329e		396.544	Not Found	0.000	ppbv
	Styrene/TO150329e		397.444	Not Found	0.000	ppbv
	Bromoform/TO150329e		406.644	Not Found	0.000	ppbv
	Cumene/TO150329e		409.044	Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane/TO150329e		422.144	Not Found	0.000	ppbv
	Propylbenzene/TO150329e		423.544	Not Found	0.000	ppbv
	4-Ethyltoluene/TO150329e		427.344	Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene/TO150329e		429.444	Not Found	0.000	ppbv
	1,3-Dichlorobenzene/TO150329e		452.944	Not Found	0.000	ppbv
	1,4-Dichlorobenzene/TO150329e		455.844	Not Found	0.000	ppbv
	alpha-Chlorotoluene/TO150329e		460.144	Not Found	0.000	ppbv
	Indane/TO150329e		462.125	Not Found	0.000	ppbv
	1,2-Dichlorobenzene/TO150329e		467.544	Not Found	0.000	ppbv
	Indene/TO150329e		469.225	Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene/TO150329e		511.344	Not Found	0.000	ppbv
	Hexachlorobutadiene/TO150329e		513.544	Not Found	0.000	ppbv
1	Propene	105.118	101.344	Quantified	0.1233	ppbv
4	Ethanol	219.118	219.344	Quantified	0.2109	ppbv
6	Carbon disulfide	230.118	229.844	Quantified	0.1329	ppbv
7	Acetone	231.218	231.444	Quantified	0.4378	ppbv
8	2-Propanol	236.818	237.144	Quantified	0.02004	ppbv
9	Acetonitrile	241.518	241.588	Quantified	0.07763	ppbv
10	Methylene Chloride	242.918	242.744	Quantified	0.04382	ppbv
12	2-Butanone	277.118	277.644	Quantified	0.1517	ppbv
14	Bromochloromethane-IS	282.118	282.044	Quantified	0.000	ppbv

Certification Report

Canister Number: F041430; 6L w/24hr #03-10

Can#33774:1

Date: 4/14/2005 Time: 21:06:52

Calibration:

Operator: Administrator

Dilution Factor: 1.00

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ATL TOF

CERTIFICATION

Peak #	Name	R.T. (s)	Expected Analyte R.T. (s)	Type	Conc	Units
15	Tetrahydrofuran	282.818	283.744	Quantified	0.01968	ppbv
16	Benzene	295.318	295.344	Quantified	0.03234	ppbv
17	1,2-Dichloroethane-d4	295.718	295.744	Quantified	5.611 ✓	ppbv
18	1,4-Dichlorobenzene-IS	303.918	303.944	Quantified	0.000 ✓	ppbv
19	Toluene-D8	336.818	336.944	Quantified	4.557 ✓	ppbv
22	Chlorobenzene-d5-IS	375.818	376.144	Quantified	0.000 ✓	ppbv
24	Bromofluorobenzene	416.718	417.144	Quantified	5.397 ✓	ppbv
25	1,2,4-Trimethylbenzene	441.918	442.244	Quantified	0.008393	ppbv
27	Naphthalene	518.018	517.725	Quantified	0.01736	ppbv

PASSED
CERTIFICATION

APR 15 2005

Certification Report

Canister Number: F041465, 6L Can#20940 w/
24hr FC#103-39:1

Date: 4/15/2005 Time: 07:08:36

Calibration:

Operator: Administrator

Dilution Factor: 1.0000

Page: 1

03A
ERL 34821
SAS 4/15/05

ATL TOF

CERTIFICATION

Peak #	Name	RT (s)	Expected Analyte RT (s)	Type	Conc	Units
	Dichlorodifluoromethane/Fr.12/ TO150329e		110.644	Not Found	0.000	ppbv
	Chloromethane/TO150329e		139.644	Not Found	0.000	ppbv
	Vinyl Chloride/TO150329e		154.244	Not Found	0.000	ppbv
	1,3-Butadiene/TO150329e		157.744	Not Found	0.000	ppbv
	Bromomethane/TO150329e		181.844	Not Found	0.000	ppbv
	Chloroethane/TO150329e		189.544	Not Found	0.000	ppbv
	Isopentane/TO150329e		191.625	Not Found	0.000	ppbv
	Vinyl bromide/TO150329e		199.688	Not Found	0.000	ppbv
	Trichlorofluoromethane/Fr.11/ TO150329e		201.644	Not Found	0.000	ppbv
	Freon 113/TO150329e		224.244	Not Found	0.000	ppbv
	1,1-Dichloroethene/TO150329e		224.503	Not Found	0.000	ppbv
	3-Chloroprene/TO150329e		237.944	Not Found	0.000	ppbv
	2-Methylpentane/TO150329e		238.925	Not Found	0.000	ppbv
	trans-1,2-Dichloroethene/TO150329e		249.044	Not Found	0.000	ppbv
	MTBE/TO150329e		249.344	Not Found	0.000	ppbv
	Acrylonitrile/TO150329e		252.488	Not Found	0.000	ppbv
	Hexane/TO150329e		253.844	Not Found	0.000	ppbv
	1,1-Dichloroethane/TO150329e		261.644	Not Found	0.000	ppbv
	Chloroprene/TO150329e		262.525	Not Found	0.000	ppbv
	Vinyl Acetate/TO150329e		262.544	Not Found	0.000	ppbv
	cis-1,2-Dichloroethene/TO150329e		276.044	Not Found	0.000	ppbv
	Ethyl Acetate/TO150329e		277.144	Not Found	0.000	ppbv
	Chloroform/TO150329e		283.144	Not Found	0.000	ppbv
	2,3-Dimethylpentane/TO150329e		285.725	Not Found	0.000	ppbv
	Cyclohexane/TO150329e		286.244	Not Found	0.000	ppbv
	1,1,1-Trichloroethane/TO150329e		286.744	Not Found	0.000	ppbv
	Carbon Tetrachloride/TO150329e		289.644	Not Found	0.000	ppbv
	2,2,4-Trimethylpentane/TO150329e		293.744	Not Found	0.000	ppbv
	Heptane/TO150329e		297.444	Not Found	0.000	ppbv
	1,2-Dichloroethane/TO150329e		297.803	Not Found	0.000	ppbv
	Thiophene/TO150329e		300.325	Not Found	0.000	ppbv
	Trichloroethene/TO150329e		309.544	Not Found	0.000	ppbv
	1,2-Dichloropropane/TO150329e		316.144	Not Found	0.000	ppbv
	1,4-Dioxane/TO150329e		318.944	Not Found	0.000	ppbv
	Bromodichloromethane/TO150329e		321.744	Not Found	0.000	ppbv
	cis-1,3-Dichloropropene/TO150329e		331.744	Not Found	0.000	ppbv
	4-Methyl-2-pentanone/TO150329e		334.644	Not Found	0.000	ppbv
	Toluene/TO150329e		338.544	Not Found	0.000	ppbv

Certification Report

Canister Number: F041465, 6L Can#20940 w/

24hr FC#103-39:1

Date: 4/15/2005 Time: 07:08:36

Calibration:

Operator: Administrator

Dilution Factor: 1.0000

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ATL TOF

CERTIFICATION

Peak #	Name	R.T. (s)	Expected Analyte R.T. (s)	Type	Conc	Units
	trans-1,3-Dichloropropene/ TO150329e		344.844	Not Found	0.000	ppbv
	1,1,2-Trichloroethane/TO150329e		349.744	Not Found	0.000	ppbv
	Tetrachloroethene/TO150329e		351.244	Not Found	0.000	ppbv
	2-Hexanone/TO150329e		354.444	Not Found	0.000	ppbv
	Dibromochloromethane/TO150329e		359.944	Not Found	0.000	ppbv
	1,2-Dibromoethane/TO150329e		364.244	Not Found	0.000	ppbv
	Chlorobenzene/TO150329e		377.144	Not Found	0.000	ppbv
	Ethylbenzene/TO150329e		378.444	Not Found	0.000	ppbv
	m,p-Xylene/TO150329e		382.144	Not Found	0.000	ppbv
	o-Xylene/TO150329e		396.544	Not Found	0.000	ppbv
	Styrene/TO150329e		397.444	Not Found	0.000	ppbv
	Bromoform/TO150329e		406.644	Not Found	0.000	ppbv
	Cumene/TO150329e		409.044	Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane/ TO150329e		422.144	Not Found	0.000	ppbv
	Propylbenzene/TO150329e		423.544	Not Found	0.000	ppbv
	4-Ethyltoluene/TO150329e		427.344	Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene/TO150329e		429.444	Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene/TO150329e		442.244	Not Found	0.000	ppbv
	1,3-Dichlorobenzene/TO150329e		452.944	Not Found	0.000	ppbv
	1,4-Dichlorobenzene/TO150329e		455.844	Not Found	0.000	ppbv
	alpha-Chlorotoluene/TO150329e		460.144	Not Found	0.000	ppbv
	Indane/TO150329e		462.125	Not Found	0.000	ppbv
	1,2-Dichlorobenzene/TO150329e		467.544	Not Found	0.000	ppbv
	Indene/TO150329e		469.225	Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene/TO150329e		511.344	Not Found	0.000	ppbv
	Hexachlorobutadiene/TO150329e		513.544	Not Found	0.000	ppbv
	Naphthalene/TO150329e		517.725	Not Found	0.000	ppbv
4	Propene	104.525	101.344	Quantified	0.1545	ppbv
6	Freon 114	135.925	134.644	Quantified	0.01455	ppbv
8	Ethanol	219.225	219.344	Quantified	0.05376	ppbv
9	Carbon disulfide	230.025	229.844	Quantified	0.05516	ppbv
10	Acetone	231.225	231.444	Quantified	0.2644	ppbv
11	2-Propanol	236.825	237.144	Quantified	0.01496	ppbv
12	Acetonitrile	241.525	241.588	Quantified	0.05168	ppbv
13	Methylene Chloride	242.825	242.744	Quantified	0.04766	ppbv
14	2-Butanone	277.125	277.644	Quantified	0.05079	ppbv
16	Bromochloromethane-IS	282.025	282.044	Quantified	0.000	ppbv
17	Tetrahydrofuran	282.925	283.744	Quantified	0.03835	ppbv

Certification Report

Canister Number: F041465, 6L Can#20940 w/

24hr FC#103-39:1

Date: 4/15/2005 Time: 07:08:36

Calibration:

Operator: Administrator

Dilution Factor: 1.0000

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ATL TOF

CERTIFICATION

Peak #	Name	RT (s)	Expected/Analyzed RT (s)	Type	Conc	Units
18	Benzene	295.325	295.344	Quantified	0.02572	ppbv
19	1,2-Dichloroethane-d4	295.625	295.744	Quantified	5.649 ✓	ppbv
20	1,4-Dichlorobenzene-IS	303.925	303.944	Quantified	0.000 ✓	ppbv
22	Toluene-D8	336.825	336.944	Quantified	4.493 ✓	ppbv
25	Chlorobenzene-d5-IS	375.825	376.144	Quantified	0.000 ✓	ppbv
27	Bromofluorobenzene	416.625	417.144	Quantified	5.424 ✓	ppbv

PASSED
CERTIFICATION

APR 15 2005

Certification Report

Canister Number: F041468, 6L Can#31148 w/
24hr FC#03-13:1

Date: 4/15/2005 Time: 07:55:55

Calibration:

Operator: Administrator

Dilution Factor: 1.0000

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ATL TOF
CERTIFICATION

Peak #	Name	R.T. (s)	Expected Analyte R.T. (s)	Type	Conc.	Units
	Dichlorodifluoromethane/Fr.12/ TO150329e		110.644	Not Found	0.000	ppbv
	Freon 114/TO150329e		134.644	Not Found	0.000	ppbv
	Chloromethane/TO150329e		139.644	Not Found	0.000	ppbv
	Vinyl Chloride/TO150329e		154.244	Not Found	0.000	ppbv
	1,3-Butadiene/TO150329e		157.744	Not Found	0.000	ppbv
	Bromomethane/TO150329e		181.844	Not Found	0.000	ppbv
	Chloroethane/TO150329e		189.544	Not Found	0.000	ppbv
	Isopentane/TO150329e		191.625	Not Found	0.000	ppbv
	Vinyl bromide/TO150329e		199.688	Not Found	0.000	ppbv
	Trichlorofluoromethane/Fr.11/ TO150329e		201.644	Not Found	0.000	ppbv
	Ethanol/TO150329e		219.344	Not Found	0.000	ppbv
	Freon 113/TO150329e		224.244	Not Found	0.000	ppbv
	1,1-Dichloroethene/TO150329e		224.503	Not Found	0.000	ppbv
	2-Propanol/TO150329e		237.144	Not Found	0.000	ppbv
	3-Chloroprene/TO150329e		237.944	Not Found	0.000	ppbv
	2-Methylpentane/TO150329e		238.925	Not Found	0.000	ppbv
	trans-1,2-Dichloroethene/TO150329e		249.044	Not Found	0.000	ppbv
	MTBE/TO150329e		249.344	Not Found	0.000	ppbv
	Acrylonitrile/TO150329e		252.488	Not Found	0.000	ppbv
	Hexane/TO150329e		253.844	Not Found	0.000	ppbv
	1,1-Dichloroethane/TO150329e		261.644	Not Found	0.000	ppbv
	Chloroprene/TO150329e		262.525	Not Found	0.000	ppbv
	Vinyl Acetate/TO150329e		262.544	Not Found	0.000	ppbv
	cis-1,2-Dichloroethene/TO150329e		276.044	Not Found	0.000	ppbv
	Ethyl Acetate/TO150329e		277.144	Not Found	0.000	ppbv
	2-Butanone/TO150329e		277.644	Not Found	0.000	ppbv
	Chloroform/TO150329e		283.144	Not Found	0.000	ppbv
	2,3-Dimethylpentane/TO150329e		285.725	Not Found	0.000	ppbv
	Cyclohexane/TO150329e		286.244	Not Found	0.000	ppbv
	1,1,1-Trichloroethane/TO150329e		286.744	Not Found	0.000	ppbv
	Carbon Tetrachloride/TO150329e		289.644	Not Found	0.000	ppbv
	2,2,4-Trimethylpentane/TO150329e		293.744	Not Found	0.000	ppbv
	Heptane/TO150329e		297.444	Not Found	0.000	ppbv
	1,2-Dichloroethane/TO150329e		297.803	Not Found	0.000	ppbv
	Thiophene/TO150329e		300.325	Not Found	0.000	ppbv
	Trichloroethene/TO150329e		309.544	Not Found	0.000	ppbv
	1,2-Dichloropropane/TO150329e		316.144	Not Found	0.000	ppbv
	1,4-Dioxane/TO150329e		318.944	Not Found	0.000	ppbv

Certification Report

Canister Number: F041468, 6L Can#31148 w/
24hr FC#03-13:1

Date: 4/15/2005 Time: 07:55:55

Calibration:

Operator: Administrator

Dilution Factor: 1.0000

Page: 2

ATL TOF

CERTIFICATION

Peak #	Name	RT (s)	Expected Analyte RT (s)	Type	Conc	Units
	Bromodichloromethane/TO150329e		321.744	Not Found	0.000	ppbv
	cis-1,3-Dichloropropene/TO150329e		331.744	Not Found	0.000	ppbv
	4-Methyl-2-pentanone/TO150329e		334.644	Not Found	0.000	ppbv
	Toluene/TO150329e		338.544	Not Found	0.000	ppbv
	trans-1,3-Dichloropropene/ TO150329e		344.844	Not Found	0.000	ppbv
	1,1,2-Trichloroethane/TO150329e		349.744	Not Found	0.000	ppbv
	Tetrachloroethene/TO150329e		351.244	Not Found	0.000	ppbv
	2-Hexanone/TO150329e		354.444	Not Found	0.000	ppbv
	Dibromochloromethane/TO150329e		359.944	Not Found	0.000	ppbv
	1,2-Dibromoethane/TO150329e		364.244	Not Found	0.000	ppbv
	Chlorobenzene/TO150329e		377.144	Not Found	0.000	ppbv
	Ethylbenzene/TO150329e		378.444	Not Found	0.000	ppbv
	m,p-Xylene/TO150329e		382.144	Not Found	0.000	ppbv
	o-Xylene/TO150329e		396.544	Not Found	0.000	ppbv
	Styrene/TO150329e		397.444	Not Found	0.000	ppbv
	Bromoform/TO150329e		406.644	Not Found	0.000	ppbv
	Cumene/TO150329e		409.044	Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane/ TO150329e		422.144	Not Found	0.000	ppbv
	Propylbenzene/TO150329e		423.544	Not Found	0.000	ppbv
	4-Ethyltoluene/TO150329e		427.344	Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene/TO150329e		429.444	Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene/TO150329e		442.244	Not Found	0.000	ppbv
	1,3-Dichlorobenzene/TO150329e		452.944	Not Found	0.000	ppbv
	1,4-Dichlorobenzene/TO150329e		455.844	Not Found	0.000	ppbv
	alpha-Chlorotoluene/TO150329e		460.144	Not Found	0.000	ppbv
	Indane/TO150329e		462.125	Not Found	0.000	ppbv
	1,2-Dichlorobenzene/TO150329e		467.544	Not Found	0.000	ppbv
	Indene/TO150329e		469.225	Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene/TO150329e		511.344	Not Found	0.000	ppbv
	Hexachlorobutadiene/TO150329e		513.544	Not Found	0.000	ppbv
	Naphthalene/TO150329e		517.725	Not Found	0.000	ppbv
2	Propene	104.025	101.344	Quantified	0.1150	ppbv
4	Carbon disulfide	229.725	229.844	Quantified	0.05296	ppbv
5	Acetone	231.125	231.444	Quantified	0.1202	ppbv
6	Acetonitrile	241.225	241.588	Quantified	0.04128	ppbv
7	Methylene Chloride	242.625	242.744	Quantified	0.03903	ppbv
9	Bromochloromethane-IS	281.825	282.044	Quantified	0.000 ✓	ppbv
10	Tetrahydrofuran	282.625	283.744	Quantified	0.03042	ppbv

Certification Report

Canister Number: F041468, 6L Can#31148 w/

24hr FC#03-13:1

Date: 4/15/2005 Time: 07:55:55

Calibration:

Operator: Administrator

Dilution Factor: 1.0000

Page: 3

ATL TOF

CERTIFICATION

Peak #	Name	R.T. (s)	Expected Analyte R.T. (s)	Type	Conc.	Units
11	Benzene	295.025	295.344	Quantified	0.01955	ppbv
12	1,2-Dichloroethane-d4	295.425	295.744	Quantified	5.703	ppbv
13	1,4-Dichlorobenzene-IS	303.625	303.944	Quantified	0.000	ppbv
14	Toluene-D8	336.525	336.944	Quantified	4.552	ppbv
17	Chlorobenzene-d5-IS	375.525	376.144	Quantified	0.000	ppbv
19	Bromofluorobenzene	416.425	417.144	Quantified	5.421	ppbv

**PASSED
CERTIFICATION**

APR 15 2005

Certification Report

Canister Number: F041433; 6L w/24hr #5881

Can#33582:1

Date: 4/14/2005 Time: 21:53:21

Calibration:

Operator: Administrator

Page: 1

Dilution Factor: 1.00

USA
2KAL 34821
SIS 4/15/05
ATL TOF
CERTIFICATION

Peak #	Name	RT (s)	Expected Analyte RT (s)	Type	Conc.	Units
	Dichlorodifluoromethane/Fr.12/ TO150329e		110.644	Not Found	0.000	ppbv
	Chloromethane/TO150329e		139.644	Not Found	0.000	ppbv
	Vinyl Chloride/TO150329e		154.244	Not Found	0.000	ppbv
	1,3-Butadiene/TO150329e		157.744	Not Found	0.000	ppbv
	Bromomethane/TO150329e		181.844	Not Found	0.000	ppbv
	Chloroethane/TO150329e		189.544	Not Found	0.000	ppbv
	Isopentane/TO150329e		191.625	Not Found	0.000	ppbv
	Vinyl bromide/TO150329e		199.688	Not Found	0.000	ppbv
	Trichlorofluoromethane/Fr.11/ TO150329e		201.644	Not Found	0.000	ppbv
	Freon 113/TO150329e		224.244	Not Found	0.000	ppbv
	1,1-Dichloroethene/TO150329e		224.503	Not Found	0.000	ppbv
	3-Chloroprene/TO150329e		237.944	Not Found	0.000	ppbv
	2-Methylpentane/TO150329e		238.925	Not Found	0.000	ppbv
	trans-1,2-Dichloroethene/ TO150329e		249.044	Not Found	0.000	ppbv
	MTBE/TO150329e		249.344	Not Found	0.000	ppbv
	Acrylonitrile/TO150329e		252.488	Not Found	0.000	ppbv
	Hexane/TO150329e		253.844	Not Found	0.000	ppbv
	1,1-Dichloroethane/TO150329e		261.644	Not Found	0.000	ppbv
	Chloroprene/TO150329e		262.525	Not Found	0.000	ppbv
	Vinyl Acetate/TO150329e		262.544	Not Found	0.000	ppbv
	cis-1,2-Dichloroethene/TO150329e		276.044	Not Found	0.000	ppbv
	Ethyl Acetate/TO150329e		277.144	Not Found	0.000	ppbv
	Chloroform/TO150329e		283.144	Not Found	0.000	ppbv
	2,3-Dimethylpentane/TO150329e		285.725	Not Found	0.000	ppbv
	Cyclohexane/TO150329e		286.244	Not Found	0.000	ppbv
	1,1,1-Trichloroethane/TO150329e		286.744	Not Found	0.000	ppbv
	Carbon Tetrachloride/TO150329e		289.644	Not Found	0.000	ppbv
	2,2,4-Trimethylpentane/TO150329e		293.744	Not Found	0.000	ppbv
	Heptane/TO150329e		297.444	Not Found	0.000	ppbv
	1,2-Dichloroethane/TO150329e		297.803	Not Found	0.000	ppbv
	Thiophene/TO150329e		300.325	Not Found	0.000	ppbv
	Trichloroethene/TO150329e		309.544	Not Found	0.000	ppbv
	1,2-Dichloropropane/TO150329e		316.144	Not Found	0.000	ppbv
	1,4-Dioxane/TO150329e		318.944	Not Found	0.000	ppbv
	Bromodichloromethane/TO150329e		321.744	Not Found	0.000	ppbv
	cis-1,3-Dichloropropene/ TO150329e		331.744	Not Found	0.000	ppbv

Certification Report

Canister Number: F041433; 6L w/24hr #5881

Can#33582:1

Date: 4/14/2005 Time: 21:53:21

Calibration:

Operator: Administrator

Page: 2

Dilution Factor: 1.00

ATL TOF

CERTIFICATION

Peak #	Name	R.T. (s)	Expected Analyte R.T. (s)	Type	Conc.	Units
	4-Methyl-2-pentanone/TO150329e		334.644	Not Found	0.000	ppbv
	Toluene/TO150329e		338.544	Not Found	0.000	ppbv
	trans-1,3-Dichloropropene/TO150329e		344.844	Not Found	0.000	ppbv
	1,1,2-Trichloroethane/TO150329e		349.744	Not Found	0.000	ppbv
	Tetrachloroethene/TO150329e		351.244	Not Found	0.000	ppbv
	2-Hexanone/TO150329e		354.444	Not Found	0.000	ppbv
	Dibromochloromethane/TO150329e		359.944	Not Found	0.000	ppbv
	1,2-Dibromoethane/TO150329e		364.244	Not Found	0.000	ppbv
	Chlorobenzene/TO150329e		377.144	Not Found	0.000	ppbv
	Ethylbenzene/TO150329e		378.444	Not Found	0.000	ppbv
	m,p-Xylene/TO150329e		382.144	Not Found	0.000	ppbv
	o-Xylene/TO150329e		396.544	Not Found	0.000	ppbv
	Styrene/TO150329e		397.444	Not Found	0.000	ppbv
	Bromoform/TO150329e		406.644	Not Found	0.000	ppbv
	Cumene/TO150329e		409.044	Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane/TO150329e		422.144	Not Found	0.000	ppbv
	Propylbenzene/TO150329e		423.544	Not Found	0.000	ppbv
	4-Ethyltoluene/TO150329e		427.344	Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene/TO150329e		429.444	Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene/TO150329e		442.244	Not Found	0.000	ppbv
	1,3-Dichlorobenzene/TO150329e		452.944	Not Found	0.000	ppbv
	1,4-Dichlorobenzene/TO150329e		455.844	Not Found	0.000	ppbv
	alpha-Chlorotoluene/TO150329e		460.144	Not Found	0.000	ppbv
	Indane/TO150329e		462.125	Not Found	0.000	ppbv
	1,2-Dichlorobenzene/TO150329e		467.544	Not Found	0.000	ppbv
	Indene/TO150329e		469.225	Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene/TO150329e		511.344	Not Found	0.000	ppbv
	Hexachlorobutadiene/TO150329e		513.544	Not Found	0.000	ppbv
	Naphthalene/TO150329e		517.725	Not Found	0.000	ppbv
4	Propene	103.925	101.344	Quantified	0.1409	ppbv
5	Freon 114	135.825	134.644	Quantified	0.006880	ppbv
7	Ethanol	218.725	219.344	Quantified	0.06716	ppbv
8	Carbon disulfide	229.625	229.844	Quantified	0.03781	ppbv
9	Acetone	230.725	231.444	Quantified	0.3633	ppbv
10	2-Propanol	236.525	237.144	Quantified	0.01206	ppbv
11	Acetonitrile	241.025	241.588	Quantified	0.04727	ppbv
12	Methylene Chloride	242.425	242.744	Quantified	0.03758	ppbv
13	2-Butanone	276.625	277.644	Quantified	0.04476	ppbv

Certification Report

Canister Number: F041433; 6L w/24hr #5881

Can#33582:1

Date: 4/14/2005 Time: 21:53:21

Calibration:

Operator: Administrator

Dilution Factor: 1.00

Page: 3

ATL TOF

CERTIFICATION

Peak	Name	RT (S)	Expected Analyte RT (S)	Type	Conc	Units
15	Bromochloromethane-IS	281.625	282.044	Quantified	0.000 ✓	ppbv
16	Tetrahydrofuran	282.425	283.744	Quantified	0.01644	ppbv
17	Benzene	294.925	295.344	Quantified	0.01618	ppbv
18	1,2-Dichloroethane-d4	295.225	295.744	Quantified	5.553 ✓	ppbv
19	1,4-Dichlorobenzene-IS	303.425	303.944	Quantified	0.000 ✓	ppbv
20	Toluene-D8	336.325	336.944	Quantified	4.521 ✓	ppbv
23	Chlorobenzene-d5-IS	375.325	376.144	Quantified	0.000 ✓	ppbv
25	Bromofluorobenzene	416.225	417.144	Quantified	5.401 ✓	ppbv

DATA REVIEW CHECKLIST

Work Order #:

0504472

A ₁	A ₂	T	Q	
☒	☒	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
☒	☒	☐	☐	Corrective Action issued - # _____
☒	☒	☐	☐	Unusual circumstances have been documented in the notes section below
☒	☒	☐	☐	Client sample IDs are correct (checked COC against Login page)
☒	☒	☐	☐	Analysis verified against analysis requested on COC
☒	☒	☐	☐	Analysis vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
☒	☒	☐	☐	Lab Blank, CCV, LCS/D, Dup. (%RPD) met QC criteria
☒	☒	☐	☐	Short-list QC criteria met, 50/150% rule met for TO-14 analyses, etc.
☒	☒	☐	☐	Hold time is met for all samples
☒	☒	☐	☐	Appropriate data qualifier flags are applied
☒	☒	☐	☐	Manual integrations for samples and QC are properly documented
☒	☒	☐	☐	12 hour clock verification (if required by the project)
☒	☒	☐	☐	Checked samples for trends (i.e. Influent>Effluent, etc)
☒	☒	☐	☐	Correct amount of sample analyzed (i.e. sample not over-diluted)
☒	☒	☐	☐	Samples pressurized w/ appropriate gas (N ₂ or He)
☒	☒	☐	☐	Final pressure consistent with canister size (6L vs. 1L)
☒	☒	☐	☐	Dilution factor correctly calculated (based on sample vol. loaded/final pressure)
☒	☒	☐	☐	Peak area integration correct
☒	☒	☐	☐	Retention times have been verified
☒	☒	☐	☐	Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
☒	☒	☐	☐	System peaks verified (if applicable)
☒	☒	☐	☐	TICs resemble reference spectra/are consistently identified between duplicate samples
☒	☒	☐	☐	TPH/NMOC manual calculations verified
☒	☒	☐	☐	Appropriate ICAL(s) included (Calibration History, Run Log(s), etc)
		☐	☐	BFB/DFTPP Tune, CCV, LCS, SS, and sample result calculation checked
		☐	☐	Manually calculated/manually entered results checked
		☐	☐	The final report has the correct reporting list, units, and header info.
		☐	☐	Special units for all samples in the final report are correctly calculated
		☐	☐	CVP package/Client Specific Deliverable is complete and correct

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)

A₁/A₂: 0 out in CCV,
1 out in LCS

T/Q:

A₁
(Analytical Review/Date)

no 5/10/05

A₂
(Analytical Review/Date)

no 5/10/05

T
(Technical Review/Date)

Q
(QA Review/Date)

Not Applicable