Air Toxics LTD.

Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 1009578A

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	9/29/10
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1009578A

Work Order Summary

CLIENT:	Ms. Jessica Vickers Tetra Tech EM, Inc. 1955 Evergreen Blvd. Bldg. 200, Suite 300 Duluth, GA 30096	**BILL TO:**	Ms. Jessica Vickers Tetra Tech EM, Inc. 1955 Evergreen Blvd. Bldg. 200, Suite 300 Duluth, GA 30096
PHONE:	678-775-3080	**P.O. #**	
FAX:		**PROJECT #**	TTEMF-45-001-0136 Maynard Terrace
DATE RECEIVED:	09/25/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/26/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A(cancelled)	MTM-A-08	Modified TO-15	28.5 "Hg	5 psi
02A(cancelled)	MTM-A-09	Modified TO-15	28.5 "Hg	5 psi
03A(cancelled)	MTM-A-10	Modified TO-15	23.0 "Hg	5 psi
04A(cancelled)	MTM-A-11	Modified TO-15	29.0 "Hg	5 psi
05A	MTM-A-FB2	Modified TO-15	29.5 "Hg	5 psi
06A	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 09/27/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
EPA Method TO-15
Tetra Tech EM, Inc.
Workorder# 1009578A

Five 6 Liter Summa Canister (100% Certified) samples were received on September 25, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody was missing method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

Samples MTM-A-08, MTM-A-09, MTM-A-10 and MTM-A-11 were received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Samples MTM-A-08, MTM-A-09, MTM-A-10 and MTM-A-11 were cancelled on September 27th, 2010 per client's request.

Analytical Notes

Bromomethane was detected in the laboratory blank analyzed on September 25, 2010 at less than 5X the reporting limit.

Associated samples had no detections for Bromomethane.

Definition of Data Qualifying Flags

Eight 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 Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
MTM-A-FB2	1009578A-05A	9/24/2010	9/25/2010	NA	1	9/25/2010	NA	Good
Lab Blank	1009578A-06A	NA	NA	NA	NA	9/25/2010	NA	Good
CCV	1009578A-07A	NA	NA	NA	NA	9/25/2010	NA	Good
LCS	1009578A-08A	NA	NA	NA	NA	9/25/2010	NA	Good
LCSD	1009578A-08AA	NA	NA	NA	NA	9/25/2010	NA	Good

Sample Results and Raw Data

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: MTM-A-FB2

Lab ID#: 1009578A-05A

No Detections Were Found.

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Client Sample ID: MTM-A-FB2

Lab ID#: 1009578A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092511**	**Date of Collection:**	**9/24/10 12:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**9/25/10 03:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	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	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

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Client Sample ID: MTM-A-FB2

Lab ID#: 1009578A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092511**	**Date of Collection:**	**9/24/10 12:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**9/25/10 03:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	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	0.50	Not Detected	3.4	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	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/25sep10.b/d092511.d
Lab Smp Id: 1009578A-05A
Inj Date : 25-SEP-2010 15:29
Operator : ccy Inst ID: msdd.i
Smp Info : 200ml #25300
Misc Info : 29.5"Hg->5psi
Comment :
Method : /chem/msdd.i/25sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 15:14 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:20 Cal File: d092408.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	220774	25.0000		80.00- 120.00	100.00
4.583	4.583 (1.000)	128	168997			27.74- 127.74	76.55
4.583	4.583 (1.000)	49	306876			89.66- 189.66	139.00
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	910811	25.0000		80.00- 120.00	100.00
5.506	5.506 (1.000)	88	149516			0.00- 66.37	16.42
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	1044513	25.0000		80.00- 120.00	100.00
7.955	7.955 (1.000)	82	614477			8.79- 108.79	58.83
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.142	5.128 (1.122)	65	366089	24.9070	24.907	80.00- 120.00	100.00
5.142	5.128 (1.122)	67	179086			2.94- 102.94	48.92
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.737	6.737 (1.224)	98	1051648	24.8080	24.808	80.00- 120.00	100.00
6.737	6.737 (1.224)	70	121733			0.00- 61.29	11.58

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 114 Toluene-d8 (continued)								
6.737	6.737	(1.224)	100	685899			16.69- 116.69	65.22
$ 149 Bromofluorobenzene						CAS #:	460-00-4	
8.948	8.948	(1.125)	174	677806	25.2070	25.207	80.00- 120.00	100.00
8.934	8.934	(1.123)	95	932411			87.50- 187.50	137.56
8.948	8.948	(1.125)	176	650189			46.73- 146.73	95.93

Report Date: 27-Sep-2010 15:23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092511.d
Lab Smp Id: 1009578A-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: ccy
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: 29.5"Hg->5psi

Calibration Date: 25-SEP-2010
Calibration Time: 09:52

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	211394	126836	295952	220774	4.44
100 1,4-Difluorobenze	892044	535226	1248862	910811	2.10
134 Chlorobenzene-d5	1020742	612445	1429039	1044513	2.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.95	7.62	8.28	7.95	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: 27-Sep-2010 15:23

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 25sep10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009578A-05A
Level: LOW Operator: ccy
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: TO15.sub
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: 29.5"Hg->5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 91 1,2-Dichloroethane	25.000	24.907	99.63	70-130
$ 114 Toluene-d8	25.000	24.808	99.23	70-130
$ 149 Bromofluorobenzene	25.000	25.207	100.83	70-130

Data File: /chem/msdd.i/25sep10.b/d092511.d

Date : 25-SEP-2010 15:29

Client ID:

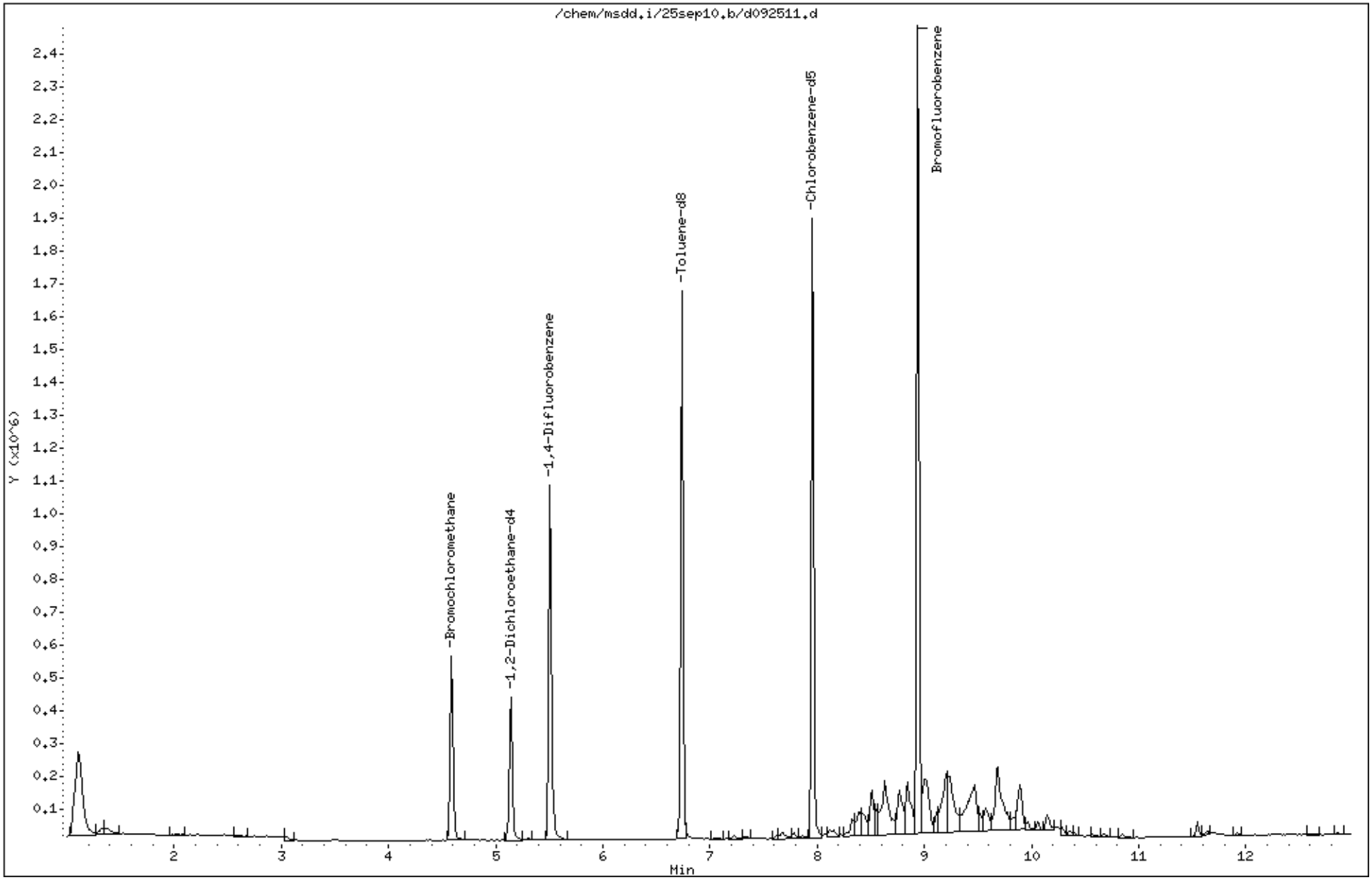
Sample Info: 200ml #25300

Column phase: RTx-624

Instrument: msdd.i

Operator: ccy

Column diameter: 0.53



QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1009578A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 12:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	0.52	1.9	2.0
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	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	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1009578A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 12:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	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	0.50	Not Detected	3.4	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	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/25sep10.b/d092507.d
Lab Smp Id: LAB BLANK Client Smp ID: LAB BLANK
Inj Date : 25-SEP-2010 12:44
Operator : ccy Inst ID: msdd.i
Smp Info : 200ml #5619
Misc Info : Humid
Comment :
Method : /chem/msdd.i/25sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 15:14 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:20 Cal File: d092408.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	212670	25.0000		80.00- 120.00	100.00
4.583	4.583 (1.000)	128	164178			27.74- 127.74	77.20
4.583	4.583 (1.000)	49	303610			89.66- 189.66	142.76
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	908375	25.0000		80.00- 120.00	100.00
5.506	5.506 (1.000)	88	148853			0.00- 66.37	16.39
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	1032464	25.0000		80.00- 120.00	100.00
7.955	7.955 (1.000)	82	616850			8.79- 108.79	59.75
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.142	5.128 (1.122)	65	367524	25.9575	25.957	80.00- 120.00	100.00
5.142	5.128 (1.122)	67	179084			2.94- 102.94	48.73
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.737	6.737 (1.224)	98	1049130	24.8149	24.815	80.00- 120.00	100.00
6.737	6.737 (1.224)	70	120613			0.00- 61.29	11.50

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 114 Toluene-d8 (continued)								
6.737	6.737	(1.224)	100	694472			16.69- 116.69	66.20
$ 149 Bromofluorobenzene						CAS #: 460-00-4		
8.948	8.948	(1.125)	174	662710	24.9332	24.933	80.00- 120.00	100.00
8.934	8.934	(1.123)	95	906248			87.50- 187.50	136.75
8.948	8.948	(1.125)	176	642992			46.73- 146.73	97.02
24 Bromomethane						CAS #: 74-83-9		
1.742	1.700	(0.380)	94	3765	0.52288	0.5229	80.00- 120.00	100.00
1.742	1.700	(0.380)	96	4067			43.18- 143.18	108.02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092507.d
Lab Smp Id: LAB BLANK
Analysis Type: VOA
Quant Type: ISTD
Operator: ccy
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: Humid

Calibration Date: 25-SEP-2010
Calibration Time: 09:52
Client Smp ID: LAB BLANK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	211394	126836	295952	212670	0.60
100 1,4-Difluorobenze	892044	535226	1248862	908375	1.83
134 Chlorobenzene-d5	1020742	612445	1429039	1032464	1.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.95	7.62	8.28	7.95	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: 27-Sep-2010 15:28

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 25Sep2010
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LAB BLANK
Client Smp ID: LAB BLANK
Level: LOW
Operator: ccy
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926spectra.spk
Quant Type: ISTD
Sublist File: AT10.sub
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 91 1,2-Dichloroethane	25.000	25.957	103.83	70-130
$ 114 Toluene-d8	25.000	24.815	99.26	70-130
$ 149 Bromofluorobenzene	25.000	24.933	99.73	70-130

Data File: /chem/msdd.i/25sep10.b/d092507.d

Date : 25-SEP-2010 12:44

Client ID: LAB BLANK

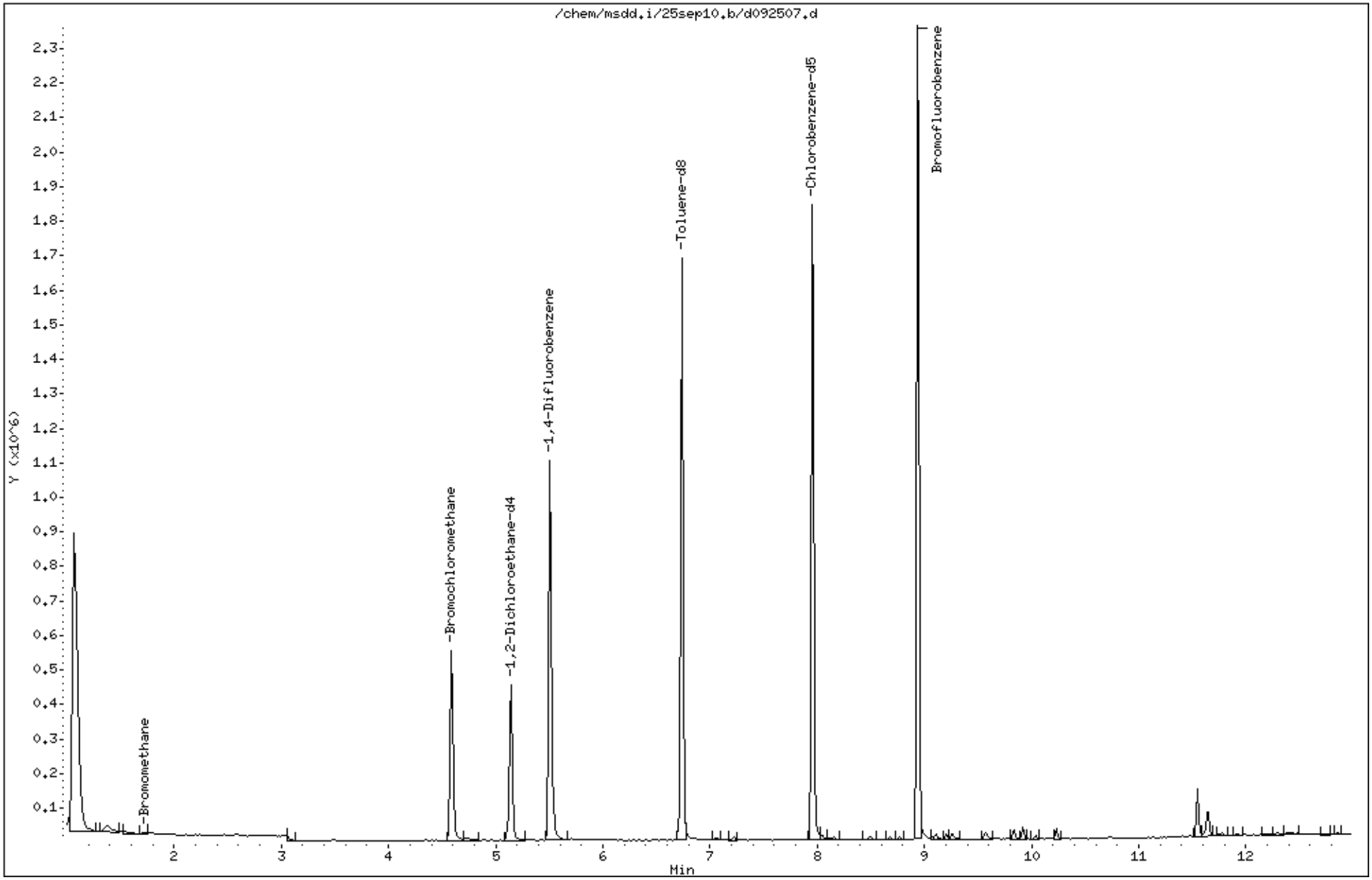
Sample Info: 200ml #5619

Column phase: RTx-624

Instrument: msdd.i

Operator: ccy

Column diameter: 0.53



Data File: /chem/msdd.i/25sep10.b/d092507.d

Date : 25-SEP-2010 12:44

Client ID: LAB BLANK

Instrument: msdd.i

Sample Info: 200ml #5619

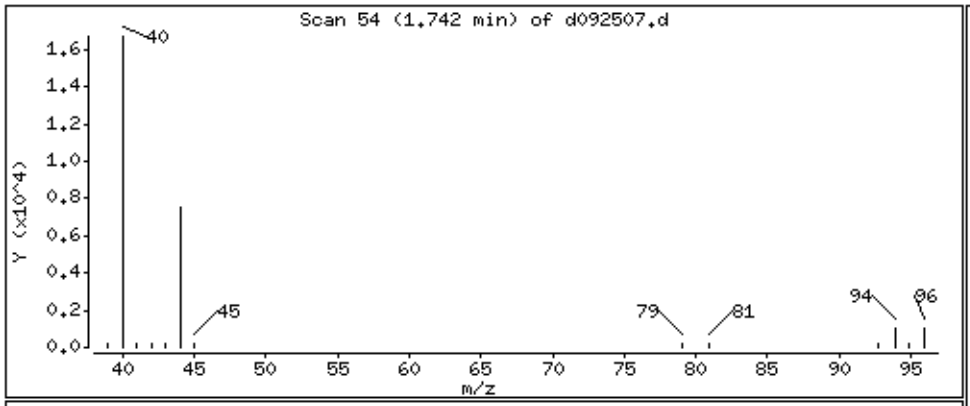
Operator: ccy

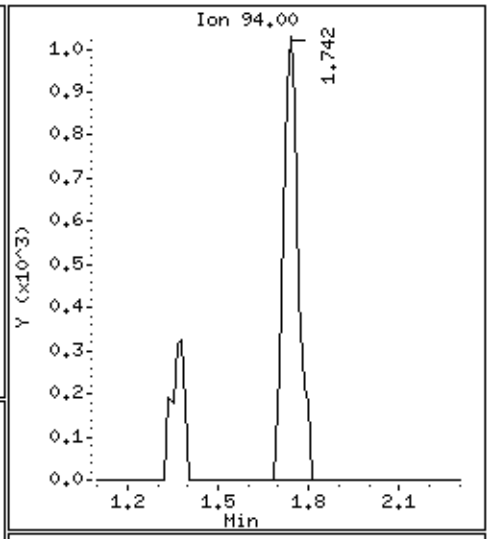
Column phase: RTx-624

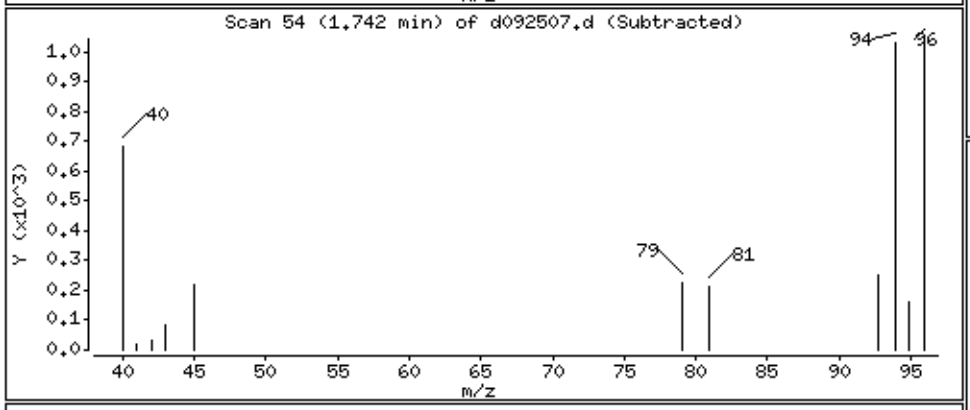
Column diameter: 0.53

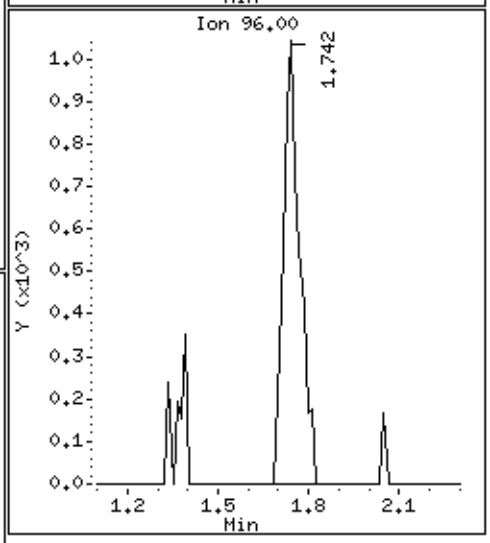
24 Bromomethane

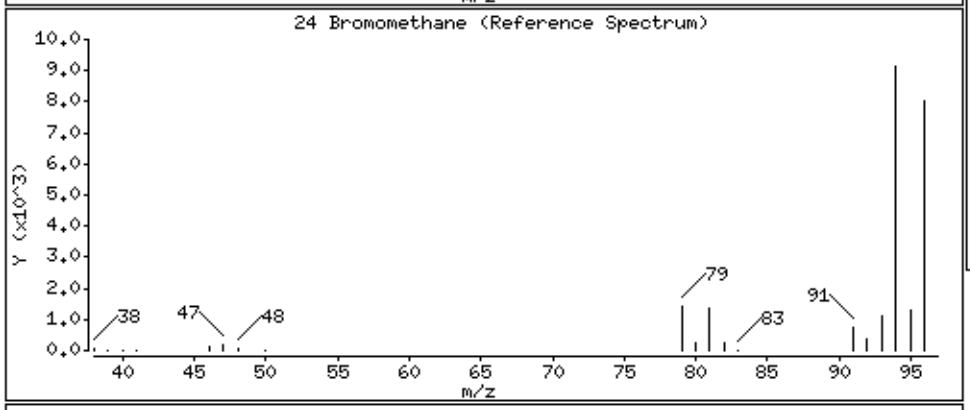
Concentration: 0.5229 PPBV

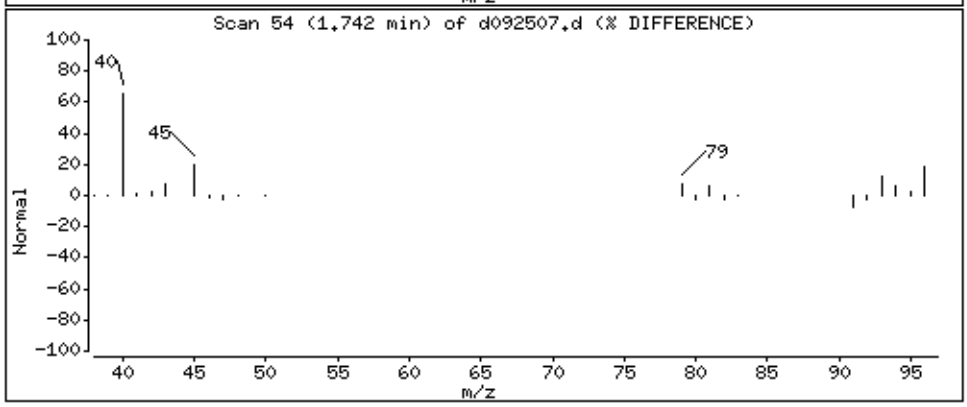












LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1009578A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	MTM-A-FB2	100		99		101				0
02	Lab Blank	104		99		100				0
03	CCV	104		100		97				0
04	LCS	103		99		98				0
05	LCSD	102		100		100				0
06										0
07										0
08										0
09										0
10										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: 1009578A

Lab File ID: d092503.d

Date Analyzed: 09/25/2010

Instrument ID: msdd.i

Time Analyzed: 09:52 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1020742		7.95		892044		5.51		211394		4.58	
	UPPER LIMIT	1429039		08.28		1248862		05.84		295952		04.91	
	LOWER LIMIT	612445		07.62		535226		05.18		126836		04.25	
	CLIENT SAMPLE NO												
01	MTM-A-FB2	1044513		7.95		910811		5.51		220774		4.58	
02	Lab Blank	1032464		7.95		908375		5.51		212670		4.58	
03	CCV	1020742		7.95		892044		5.51		211394		4.58	
04	LCS	1052927		7.95		921580		5.51		219745		4.58	
05	LCSD	1000193		7.95		870486		5.51		208018		4.58	
06													
07													
08													
09													
10													
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: d092505.d & d092504.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/25/10 & 9/25/10

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	105		104		0.96	
79-34-5	1,1,2,2-Tetrachloroethane	105		105		0	
79-00-5	1,1,2-Trichloroethane	104		104		0	
75-34-3	1,1-Dichloroethane	98		97		1.0	
75-35-4	1,1-Dichloroethene	94		92		2.2	
120-82-1	1,2,4-Trichlorobenzene	105		108		2.8	
95-63-6	1,2,4-Trimethylbenzene	105		105		0	
106-93-4	1,2-Dibromoethane (EDB)	109		108		0.92	
95-50-1	1,2-Dichlorobenzene	107		107		0	
107-06-2	1,2-Dichloroethane	103		102		0.98	
78-87-5	1,2-Dichloropropane	102		100		2.0	
108-67-8	1,3,5-Trimethylbenzene	103		103		0	
106-99-0	1,3-Butadiene	112		108		3.6	
541-73-1	1,3-Dichlorobenzene	104		104		0	
106-46-7	1,4-Dichlorobenzene	103		108		4.7	
123-91-1	1,4-Dioxane	103		102		0.98	
540-84-1	2,2,4-Trimethylpentane	103		104		0.97	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	103		98		5.0	
591-78-6	2-Hexanone	105		105		0	
67-63-0	2-Propanol	96		96		0	
107-05-1	3-Chloropropene	104		103		0.97	
622-96-8	4-Ethyltoluene	102		102		0	
108-10-1	4-Methyl-2-pentanone	108		106		1.9	
67-64-1	Acetone	93		90		3.3	
100-44-7	alpha-Chlorotoluene	107		103		3.8	
71-43-2	Benzene	98		97		1.0	
75-27-4	Bromodichloromethane	107		106		0.94	
75-25-2	Bromoform	113		110		2.7	
74-83-9	Bromomethane	103		101		2.0	
75-15-0	Carbon Disulfide	104		101		2.9	
56-23-5	Carbon Tetrachloride	112		112		0	
108-90-7	Chlorobenzene	94		94		0	
75-00-3	Chloroethane	104		100		3.9	
67-66-3	Chloroform	102		100		2.0	
74-87-3	Chloromethane	117		106		9.9	
156-59-2	cis-1,2-Dichloroethene	101		100		1.0	
10061-01-5	cis-1,3-Dichloropropene	106		104		1.9	
98-82-8	Cumene	104		105		0.96	
110-82-7	Cyclohexane	100		100		0	
124-48-1	Dibromochloromethane	111		108		2.7	
64-17-5	Ethanol	98		92		6.3	
100-41-4	Ethyl Benzene	106		104		1.9	
75-69-4	Freon 11	110		106		3.7	
76-13-1	Freon 113	96		92		4.2	
76-14-2	Freon 114	105		101		3.9	

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: d092505.d & d092504.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/25/10 & 9/25/10

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
75-71-8	Freon 12	109		106		2.8	
142-82-5	Heptane	102		102		0	
87-68-3	Hexachlorobutadiene	111		113		1.8	
110-54-3	Hexane	98		97		1.0	
108-38-3	m,p-Xylene	103		102		0.98	
1634-04-4	Methyl tert-butyl ether	100		99		1.0	
75-09-2	Methylene Chloride	92		91		1.1	
95-47-6	o-Xylene	103		104		0.97	
103-65-1	Propylbenzene	103		102		0.98	
100-42-5	Styrene	106		106		0	
127-18-4	Tetrachloroethene	102		102		0	
109-99-9	Tetrahydrofuran	100		101		1.0	
108-88-3	Toluene	96		96		0	
156-60-5	trans-1,2-Dichloroethene	104		103		0.97	
10061-02-6	trans-1,3-Dichloropropene	108		105		2.8	
79-01-6	Trichloroethene	104		104		0	
75-01-4	Vinyl Chloride	118		117		0.85	

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 : 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdd.i/24sep10.b/d10q0924a.m
Cal Date : 27-Sep-2010 13:55 mwillett
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdd.i/24sep10.b/d092402.d
Level 2: /chem/msdd.i/24sep10.b/d092403.d
Level 3: /chem/msdd.i/24sep10.b/d092404.d
Level 4: /chem/msdd.i/24sep10.b/d092405.d
Level 5: /chem/msdd.i/24sep10.b/d092406.d
Level 6: /chem/msdd.i/24sep10.b/d092407.d
Level 7: /chem/msdd.i/24sep10.b/d092408.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++
2 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++
3 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++
4 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++
5 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++
6 Propylene	+++++	+++++	0.60797	0.64658	0.62195	0.63377	0.60756	0.62357	2.702
7 Dichlorodifluoromethane/Fr12	+++++	2.58885	2.50037	2.79606	2.68809	2.72958	2.55838	2.64355	4.259

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdd.i/24sep10.b/d10q0924a.m
Cal Date : 27-Sep-2010 13:55 mwillett
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Freon 114	+++++	1.77914	1.73079	1.87007	1.86226	1.88993	1.78304	1.81921	3.492
11 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chloromethane	+++++	+++++	0.71117	0.60586	0.50577	0.52025	0.42023	0.55265	19.974
14 Butane	+++++	+++++	0.22013	0.18547	0.15899	0.11791	0.11117	0.15873	28.892
15 Vinyl Chloride	+++++	0.99295	0.84739	0.91728	0.86427	0.57860	0.54044	0.79016	23.552
16 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdd.i/24sep10.b/d10q0924a.m
Cal Date : 27-Sep-2010 13:55 mwillett
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
18 1,3-Butadiene	+++++	1.05794	0.79546	0.72652	0.71199	0.43746	0.40419	0.68893	35.185	<-
19 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 Bromomethane	+++++	1.31195	0.84210	0.79759	0.80628	0.83183	0.48892	0.84645	31.201	<-
25 Chloroethane	+++++	0.68925	0.50194	0.54065	0.51874	0.52148	0.31926	0.51522	22.893	
26 Isopentane	+++++	+++++	1.05972	1.11972	1.09662	1.11455	0.70702	1.01953	17.290	
27 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdd.i/24sep10.b/d10q0924a.m
Cal Date : 27-Sep-2010 13:55 mwillett
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Trichlorofluoromethane/Fr11	+++++	2.96508	2.84119	3.02196	2.97153	3.10093	2.58502	2.91429	6.253
29 Ethanol	+++++	+++++	0.31450	0.38106	0.36616	0.36826	0.35292	0.35658	7.165
30 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Freon 113	+++++	1.59834	1.62721	1.64975	1.65277	1.69032	1.57762	1.63267	2.489
34 1,1-Dichloroethene	+++++	0.56147	0.61451	0.63304	0.62767	0.62949	0.59789	0.61068	4.480
35 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdd.i/24sep10.b/d10q0924a.m
Cal Date : 27-Sep-2010 13:55 mwillett
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 Acetone	+++++	+++++	0.53632	0.45241	0.45383	0.46270	0.44897	0.47085	7.847
39 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Carbon Disulfide	+++++	2.61990	2.49759	2.61132	2.60042	2.69731	2.59692	2.60391	2.453
41 2-Propanol	+++++	+++++	1.64203	1.60594	1.60179	1.73201	1.71699	1.65975	3.698
42 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 3-Chloropropene	+++++	+++++	0.36365	0.47855	0.46100	0.46046	0.46076	0.44488	10.354
45 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Methylene Chloride	+++++	1.32016	1.19442	1.17940	1.16478	1.18819	1.13879	1.19762	5.279
47 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdd.i/24sep10.b/d10q0924a.m
Cal Date : 27-Sep-2010 13:55 mwillett
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 tert-Butyl-Alcohol	+++++	+++++	2.02530	2.00077	2.03112	2.20344	2.24655	2.10144	5.443
49 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 MTBE	+++++	2.84906	2.67173	2.89446	2.84552	2.98074	2.88637	2.85465	3.575
51 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 trans-1,2-Dichloroethene	+++++	0.60473	0.64012	0.65020	0.64891	0.67240	0.64672	0.64385	3.427
53 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 Hexane	+++++	2.04468	1.74044	1.72573	1.71139	1.73767	1.63331	1.76554	8.063
59 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Isopropyl ether	+++++	+++++	5.29345	4.22829	4.15191	4.24645	4.05605	4.39523	11.551
64 1,1-Dichloroethane	+++++	2.07330	2.14435	2.15385	2.11415	2.20210	2.12508	2.13547	2.018
65 Vinyl Acetate	+++++	+++++	0.20999	0.24061	0.24839	0.26721	0.25954	0.24515	9.031
66 2,4,4-Trimethyl-2-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 t-Butylethyl Ether	+++++	+++++	3.52097	3.99574	3.93050	4.08650	3.90347	3.88744	5.573
73 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 cis-1,2-Dichloroethene	+++++	0.76179	0.70616	0.75513	0.74810	0.74230	0.73898	0.74208	2.624
75 2-Butanone	+++++	0.40352	0.49344	0.54681	0.53611	0.53947	0.53765	0.50950	10.850
76 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
78 Tetrahydrofuran	+++++	1.48365	1.28552	1.29386	1.26808	1.26854	1.34675	1.32440	6.281
80 Chloroform	+++++	2.69311	2.59877	2.65611	2.58179	2.59742	2.58544	2.61877	1.729
81 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 Cyclohexane	+++++	1.74475	1.56826	1.62696	1.54505	1.54278	1.50678	1.58910	5.410
84 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,1,1-Trichloroethane	+++++	2.71086	2.59632	2.83663	2.75772	2.80665	2.76308	2.74521	3.089
86 Carbon Tetrachloride	+++++	1.94774	1.84347	2.60613	2.56109	2.65288	2.67608	2.38123	15.945
87 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
89 2,2,4-Trimethylpentane	+++++	6.93975	6.42014	6.43614	6.15103	5.95536	5.57672	6.24652	7.472
90 Benzene	+++++	0.99965	0.85134	0.86153	0.82504	0.81068	0.80455	0.85880	8.445
92 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 tert-amyl-Methyl Ether	+++++	+++++	3.41309	3.81770	3.59890	3.66820	3.57333	3.61424	4.073
94 1,2-Dichloroethane	+++++	0.48878	0.45918	0.48510	0.47500	0.47248	0.47559	0.47602	2.188
95 Heptane	+++++	0.30905	0.29985	0.32320	0.31224	0.30541	0.30035	0.30835	2.831
96 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
101 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 Trichloroethene	+++++	0.43821	0.42561	0.42765	0.41252	0.41087	0.40693	0.42030	2.877
105 Methyl Cyclohexane	+++++	2.45397	2.46010	2.46997	2.33431	2.30135	2.23888	2.37643	4.127
106 1,2-Dichloropropane	+++++	0.40173	0.34707	0.37418	0.35657	0.34822	0.35606	0.36397	5.739
107 1,4-Dioxane	+++++	+++++	0.20917	0.22452	0.21632	0.21279	0.21985	0.21653	2.762
108 Bromodichloromethane	+++++	0.73239	0.64476	0.76672	0.73659	0.75530	0.75153	0.73122	6.041
109 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 cis-1,3-Dichloropropene	+++++	0.52813	0.49617	0.57403	0.56445	0.56769	0.58288	0.55223	6.021

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
111 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 4-Methyl-2-pentanone	+++++	0.30751	0.28877	0.34262	0.32577	0.32899	0.33815	0.32197	6.309
113 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Toluene	+++++	1.33483	1.22754	1.24602	1.19485	1.18524	1.18656	1.22917	4.656
116 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 bis(2-chloroethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 trans-1,3-Dichloropropene	+++++	0.50702	0.44372	0.55317	0.56388	0.57887	0.57063	0.53621	9.678
119 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,1,2-Trichloroethane	+++++	0.39076	0.36948	0.40371	0.39391	0.38511	0.37365	0.38610	3.327
121 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 Tetrachloroethene	+++++	0.54554	0.51808	0.53859	0.53025	0.51444	0.48926	0.52269	3.863
123 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 2-Hexanone	+++++	+++++	0.37899	0.44194	0.44644	0.43392	0.44492	0.42924	6.641
126 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Dibromochloromethane	+++++	0.65910	0.55553	0.72968	0.72940	0.72600	0.69713	0.68281	9.976
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 1,2-Dibromoethane	+++++	0.61474	0.60927	0.64384	0.63415	0.62542	0.61226	0.62328	2.195
131 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
132 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 Chlorobenzene	+++++	1.31507	1.25086	1.00694	0.99134	0.96929	0.93569	1.07820	14.996
136 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Ethyl Benzene	+++++	0.47841	0.49035	0.51703	0.51083	0.49740	0.48628	0.49672	2.982
138 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 m,p-Xylene	+++++	0.64982	0.65348	0.66533	0.64171	0.64110	0.62893	0.64673	1.925
141 o-Xylene	+++++	0.60501	0.62956	0.64193	0.62704	0.61061	0.58319	0.61622	3.407
142 Styrene	+++++	0.94819	0.94732	1.05606	1.02369	0.99660	0.93980	0.98528	4.867

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
143 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 Bromoform	+++++	0.61970	0.51611	0.71131	0.71139	0.72846	0.68210	0.66151	12.237
146 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Cumene	+++++	1.85451	1.85933	1.95910	1.93664	1.90208	1.59436	1.85100	7.150
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 1,1,2,2-Tetrachloroethane	+++++	1.01482	0.97211	1.02336	0.99738	0.96661	0.93780	0.98535	3.287
152 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 Propylbenzene	+++++	2.20623	2.29363	2.40492	2.36273	2.31949	+++++	2.31740	3.247

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154 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 4-Ethyltoluene	+++++	0.62636	0.58921	0.60525	0.59916	0.59169	0.56869	0.59673	3.201
156 1,3,5-Trimethylbenzene	0.90393	0.85379	0.82969	0.85114	0.84204	0.83618	0.77414	0.84156	4.563
157 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
159 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 1,2,4-Trimethylbenzene	0.77250	0.74317	0.74199	0.78042	0.79595	0.76187	0.71548	0.75877	3.588
163 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
164 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 1,3-Dichlorobenzene	+++++	1.15803	1.16463	1.12489	1.17600	1.13022	1.07823	1.13867	3.131
166 1,4-Dichlorobenzene	+++++	1.19757	1.21357	1.13288	1.20054	1.14169	1.05862	1.15748	5.072
167 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 alpha-Chlorotoluene	+++++	1.24909	1.07047	1.47837	1.65339	1.66358	1.62239	1.45621	16.868
169 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 1,2-Dichlorobenzene	+++++	1.09839	1.12350	1.07526	1.12907	1.06754	1.01117	1.08416	4.010
172 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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174 1,2,4-Trichlorobenzene	+++++	+++++	1.10687	0.82113	1.00307	1.02328	0.93061	0.97699	10.993
175 Hexachlorobutadiene	+++++	+++++	0.79452	0.65647	0.74229	0.74743	0.63375	0.71489	9.422
176 Naphthalene	+++++	+++++	2.51282	2.00836	2.43452	2.64008	2.54562	2.42828	10.132
$ 91 1,2-Dichloroethane-d4	1.66214	1.61133	1.66577	1.65236	1.62223	1.68579	1.75116	1.66440	2.768
$ 114 Toluene-d8	1.16770	1.15646	1.17602	1.15775	1.15427	1.14138	1.19138	1.16357	1.407
$ 149 Bromofluorobenzene	0.62737	0.63084	0.63605	0.64362	0.65301	0.64915	0.66510	0.64359	2.070

Calibration History

Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Start Cal Date: 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
24-SEP-2010 10:12	AFCEElow	/chem/msdd.i/24sep10.b/d092402.d
Cal Level: 2 , Cal Amount: 0.50000		
24-SEP-2010 10:29	AT10low	/chem/msdd.i/24sep10.b/d092403.d
Cal Level: 3 , Cal Amount: 2.00000		
24-SEP-2010 10:48	AT10	/chem/msdd.i/24sep10.b/d092404.d
Cal Level: 4 , Cal Amount: 25.00000		
24-SEP-2010 11:26	AT10	/chem/msdd.i/24sep10.b/d092405.d
Cal Level: 5 , Cal Amount: 50.00000		
24-SEP-2010 11:44	AT10	/chem/msdd.i/24sep10.b/d092406.d
Cal Level: 6 , Cal Amount: 100.00000		
24-SEP-2010 12:01	AT10	/chem/msdd.i/24sep10.b/d092407.d
Cal Level: 7 , Cal Amount: 200.00000		
24-SEP-2010 12:20	AT10	/chem/msdd.i/24sep10.b/d092408.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000

```
|24-SEP-2010 11:44 |AT10              |/chem/msdd.i/24sep10.b/d092406.d        |
+------------------+-----------------+----------------------------------------+
```

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-D on 09/24/10.

The following compounds were calibrated from 0.3ppbv to 200ppbv:

1 1,3,5-Trimethylbenzene
2 1,2,4- Trimethylbenzene

The following compounds were curved at 0.2, 2.5, 5, 10, and 20ppbv:

1 tert- Butyl- Alcohol
2 Isopropyl ether
3 tert-Butylethyl Ether
4 tert-amyl-Methyl Ether
5 Naphthalene

The remaining compounds were calibrated from either 0.5ppbv or 2.0 ppbv (based upon reporting limit) to 200ppbv.

Propylbenzene Top of curve = 100ppbv

1,3-Butadiene %RSD was greater than 30% (35.1%)

Bromomethane 30% (31.2)

The initial calibration verification (ICV) had 0 compounds that did not meet criteria. Data file D092411.d, 50 mL load of standard number 1968-279, 50 ppbv (200ppbv).

Calibration meets AFCEE criteria.

MS 9/24/10

Air Toxics Ltd.

INITIAL CALIBRATION DATA

MDL: 12/11/09

ICAL - 1 OUT
1,3-BUTADIENE → 35%

ICV 0 OUT
50mL 1968-279, 50ppbv (200ppbv)

Start Cal Date : 24-SEP-2010 10:12
End Cal Date : 24-SEP-2010 12:20
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdd.i/24sep10.b/d10q0924a.m
Cal Date : 24-Sep-2010 15:53 mwillett
Curve Type : Average

Calibration File Names: SEE CALIBRATION HISTORY FOR ALL CALIBRATION FILES
Level 1: /chem/msdd.i/24sep10.b/d092402.d
Level 2: /chem/msdd.i/24sep10.b/d092403.d
Level 3: /chem/msdd.i/24sep10.b/d092404.d
Level 4: /chem/msdd.i/24sep10.b/d092405.d
Level 5: /chem/msdd.i/24sep10.b/d092406.d
Level 6: /chem/msdd.i/24sep10.b/d092407.d
Level 7: /chem/msdd.i/24sep10.b/d092408.d

OK FOR AFCEE

Compound	0.30000 Level 1 / 200.000 Level 7	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 Dimethyl Ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Acetaldehyde	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 13	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 2-Methyl-1-Butene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 134a	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++ / 0.60756	+++++	0.60797	0.64658	0.62195	0.63377	0.62357	2.702
7 Dichlorodifluoromethane/Fr12	+++++ / 2.55838	2.58885	2.50037	2.79606	2.68809	2.72958	2.64355	4.259

MS 9/24/10

@ Air Toxics Ltd.

MSD-D

Logbook #: 2016

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.73
75	30.0 – 60.0% of mass 95	46.25
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.84
173	Less than 2.0% of mass 174	(0.68)[1]
174	50.0 – 100% of mass 95	72.24
175	5.0 – 9.0% of mass 174	(7.12)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.92)[1]
177	5.0 – 9.0% of mass 176	(6.56)[2]

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

BFB Injection Date: 09/24/10
BFB Injection Time: 0942
BFB File ID: D092401
Tekmar Purge Flow: NA
Vacuum: 1.62×10^{-5}

IS/S Std.#:	1936-287	Exp. Date:	11/20/10
BCM	219753		
1,4-DFB	915405		
CB-d5	1036280		

Verified CCV IS vs ICAL mid-point (- 40%D) MR *initials*

Verify 176/174 m/z Ratio: 285336 / 297488

NOAH Cart #: NA **File #:** NA

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1056629)}{(915405)} \times \frac{(25)}{(1.16357)} = 24.80$

Reported Result 24.80

File ID:	D092406A
Compound:	TOLUENE-d8
Initials:	MR

Method: D1020924A.m

	Use	File #	Sample / Client Name	Can #	Pressure 08 9/24/10	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	D092401	BFB Tune Check	1936-287	36ng	1.0 ml	1.0	DB	9-24-10	0942	DB	
2	✓	02	ICAL Level 1	#2037-3	0.3 ppbv	30 ml				1012	MR	
3	✓	03	2		0.5 ppbv	50 ml				1029		
4	✓	04	3		2.0 ppbv	200 ml				1048		
5	✓	05	4	1936-309	25 ppbv	25 mL		MR		1126		
6	✓	06	5		50 ppbv	50 mL				1144		
7	✓	07	6		100 ppbv	100 mL				1201		
8	✓	08	7		200 ppbv	200 mL				1220		

Signature

09/24/10
Date

@ Air Toxics Ltd. System m 9/24/10

MSD-D

Logbook #: 2016

9	X	D092409	~~LAB~~ BLANK	5619	HUMID	200mL	1.00	m	9/24/10	1356	m	
10	✓	10	LAB BLANK	↓	HUMID	↓	↓	↓	↓	1415	m	
11		11	ICV (200ppbv)	1968-279	50ppbv	50mL	↓	↓	↓	1451	m	(LCS)
12		12	LCSD (200ppbv)	↓	↓	↓	↓	↓	↓	1534		
13		13	Blank	5619	Humid	200mL	1.00	m	9/24/10			
14												
15												
16												
17												
18												
19												
20												
21												
22												
23					m 9/24/10							
24												
25												
26												
27												
28												
29												
30												
31												

Comments:

Signature

09/24/10
Date

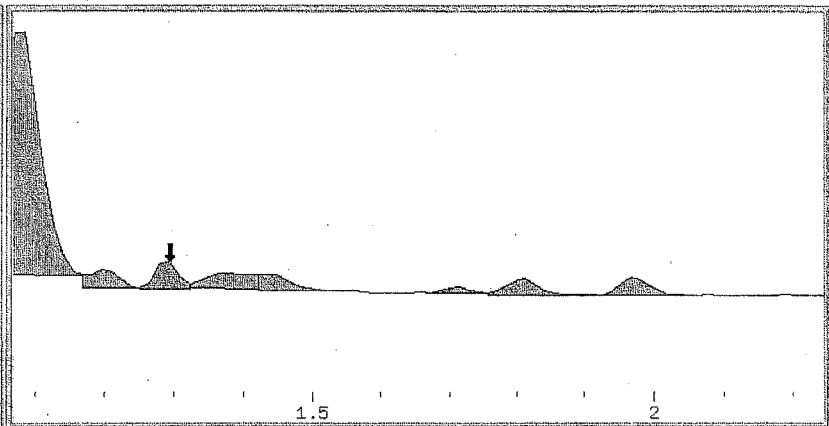
TargetReview: eeyore:ICAL:/chem/msdd.i/24sep10.b/d092404.d

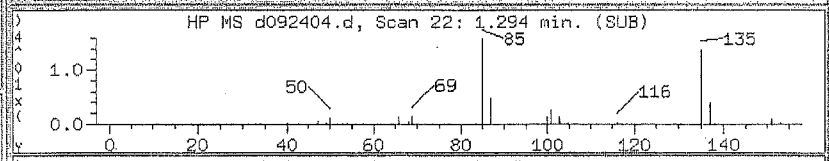
File Security Edit Display Process Spectra Help

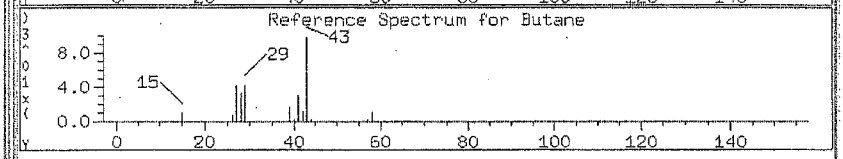
Sample: ICAL Type: CALIB_3 Inj.Date: 24-SEP-2010 10:48

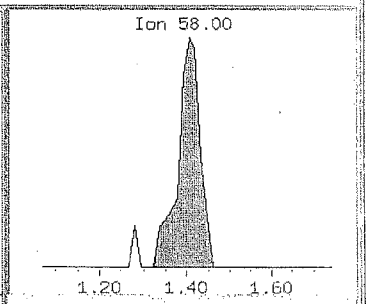
*+ 79 Bromochlorometh
*+ 100 1,4-Difluorobe
*+ 134 Chlorobenzene-
$+ 91 1,2-Dichloroeth
$+ 114 Toluene-d8
$+ 149 Bromofluoroben
+ 6 Propylene
+ 7 Dichlorodifluo
+ 10 Freon 114
+ 13 Chloromethane
+ 14 Butane
+ 15 Vinyl Chloride
+ 18 1,3-Butadiene
+ 24 Bromomethane
+ 25 Chloroethane
+ 26 Isopentane
+ 28 Trichlorofluor
+ 29 Ethanol
+ 33 Freon 113
+ 34 1,1-Dichloroeth
+ 38 Acetone
+ 40 Carbon Disulfi
+ 41 2-Propanol
+ 44 3-Chloropropen
+ 46 Methylene Chlo

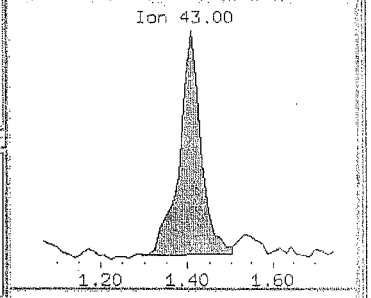
d092404.d











Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	1.406	4670	2.462	2.462	100		
	1.406	31122			666		
2	1.812	601	0.3168	0.3168	100	Ta	
	1.812	19072			3173		

- Mark Butane Undetected.

BEFORE

TargetReview: eeyore:ICAL: /chem/msdd.i/24sep10.b/d092404.d

File Security Edit Display Process Spectra Help

Sample: ICAL Type: CALIB_3 Inj.Date: 24-SEP-2010 10:48

*+ 79 Bromochlorometh
*+ 100 1,4-Difluorobe
*+ 134 Chlorobenzene-
*+ 91 1,2-Dichloroeth
*+ 114 Toluene-d8
*+ 149 Bromofluoroben
+ 6 Propylene
+ 7 Dichlorodifluo
+ 10 Freon 114
+ 13 Chloromethane
+ 14 Butane
+ 15 Vinyl Chloride
+ 18 1,3-Butadiene
+ 24 Bromomethane
+ 25 Chloroethane
+ 26 Isopentane
+ 28 Trichlorofluor
+ 29 Ethanol
+ 33 Freon 113
+ 34 1,1-Dichloroeth
+ 38 Acetone
+ 40 Carbon Disulfi
+ 41 2-Propanol
+ 44 3-Chloropropen
+ 46 Methylene Chlo

d092404.d

Ion 58.00

Ion 43.00

HP MS d092404.d, Scan 30: 1.406 min. (SUB)

Reference Spectrum for Butane

Manual Int

Time: 1.406

Area: 4041

Height: 1264

Done

Help

Snap to Data

Snap to Int Marks

Overlap Peaks

Assign Baseline

Split Peak

RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1.406	4041	2.774	2.774	100	M	
1.406	31122		770.			

– Mark Butane Undetected.

AFTER

Manual	MEH 9/24/10
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

ML
09-24-10

Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092411.d
Lab Smp Id: ICV Client Smp ID: LCSD
Inj Date : 24-SEP-2010 14:51
Operator : mtw Inst ID: msdd.i
Smp Info : 50mL #1968-279
Misc Info : 50ppbv(200ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 12:40 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:20 Cal File: d092408.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	220734	25.0000		50.00- 150.00	100.00
4.583	4.583 (1.000)	128	171813			27.74- 127.74	77.84
4.583	4.583 (1.000)	49	312094			89.66- 189.66	141.39
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	937789	25.0000		50.00- 150.00	100.00
5.506	5.506 (1.000)	88	155191			0.00- 66.37	16.55
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	1096366	25.0000		50.00- 150.00	100.00
7.955	7.955 (1.000)	82	645853			8.79- 108.79	58.91
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.128	5.142 (1.119)	65	377622	25.6963	25.696	50.00- 150.00	100.00
5.128	5.142 (1.119)	67	206232			2.94- 102.94	54.61
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.737	6.737 (1.224)	98	1090731	24.9897	24.990	50.00- 150.00	100.00
6.737	6.737 (1.224)	70	125502			0.00- 61.29	11.51

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

$ 114 Toluene-d8 (continued)
  6.737   6.737 (1.224)   100    738739                    16.69- 116.69    67.73
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                            CAS #: 460-00-4
  8.948   8.934 (1.125)   174    712946 25.2598   25.260  50.00- 150.00   100.00
  8.934   8.934 (1.123)    95    960447                    87.50- 187.50   134.72
  8.948   8.934 (1.125)   176    681528                    46.73- 146.73    95.59
-------------------------------------------------------------------------------
    6 Propylene                                     CAS #: 115-07-1
  1.183   1.183 (0.258)    41    284604 51.6925   51.692  50.00- 150.00   100.00
  1.183   1.183 (0.258)    42    185357                    19.00- 119.00    65.13
  1.183   1.183 (0.258)    39    218371                    30.01- 130.01    76.73
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  1.197   1.210 (0.261)    85   1262322 54.0818   54.082  50.00- 150.00   100.00
  1.197   1.210 (0.261)    87    406941                     0.00-  82.63    32.24
-------------------------------------------------------------------------------
   10 Freon 114                                     CAS #: 76-14-2
  1.295   1.294 (0.282)   135    853175 53.1160   53.116  50.00- 150.00   100.00
  1.295   1.294 (0.282)   137    265537                     0.00-  81.88    31.12
-------------------------------------------------------------------------------
   13 Chloromethane                                 CAS #: 74-87-3
  1.337   1.350 (0.292)    50    267657 54.8523   54.852  50.00- 150.00   100.00
  1.337   1.350 (0.292)    52     82496                     0.00-  81.18    30.82
-------------------------------------------------------------------------------
   14 Butane                                        CAS #: 106-97-8
  1.407   1.406 (0.307)    58     82639 58.9643   58.964  50.00- 150.00   100.00
  1.407   1.406 (0.307)    43    571557                   624.15- 724.15   691.63
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                CAS #: 75-01-4
  1.435   1.420 (0.313)    62    419735 60.1633   60.163  50.00- 150.00   100.00
  1.435   1.420 (0.313)    64    132228                     0.00-  85.43    31.50
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                 CAS #: 106-99-0
  1.449   1.448 (0.316)    54    341577 56.1547   56.155  50.00- 150.00   100.00
  1.449   1.448 (0.316)    39    433588                    71.50- 171.50   126.94
-------------------------------------------------------------------------------
   24 Bromomethane                                  CAS #: 74-83-9
  1.700   1.700 (0.371)    94    383831 51.3582   51.358  50.00- 150.00   100.00
  1.700   1.700 (0.371)    96    359676                    43.18- 143.18    93.71
-------------------------------------------------------------------------------
   25 Chloroethane                                  CAS #: 75-00-3
  1.784   1.784 (0.389)    64    236943 52.0859   52.086  50.00- 150.00   100.00
  1.784   1.784 (0.389)    66     75248                     0.00-  83.84    31.76
  1.784   1.784 (0.389)    49     67849                     0.00-  75.97    28.64
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Isopentane					CAS #: 78-78-4		
1.812	1.798 (0.395)	43	517658	57.5061	57.506	50.00- 150.00	100.00
1.812	1.798 (0.395)	57	374173			23.31- 123.31	72.28
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
1.966	1.966 (0.429)	101	1396462	54.2708	54.271	50.00- 150.00	100.00
1.966	1.966 (0.429)	103	894938			16.00- 116.00	64.09
29 Ethanol					CAS #: 64-17-5		
2.176	2.204 (0.475)	45	153801	48.8509	48.851	50.00- 150.00	100.00
2.176	2.204 (0.475)	43	32935			0.00- 73.09	21.41
2.176	2.204 (0.475)	46	63301			0.00- 90.22	41.16
33 Freon 113					CAS #: 76-13-1		
2.428	2.428 (0.530)	151	678079	47.0383	47.038	50.00- 150.00	100.00
2.428	2.428 (0.530)	153	430210			14.08- 114.08	63.45
2.428	2.428 (0.530)	101	867687			76.51- 176.51	127.96
34 1,1-Dichloroethene					CAS #: 75-35-4		
2.456	2.442 (0.536)	98	254506	47.2015	47.201	50.00- 150.00	100.00
2.442	2.442 (0.533)	96	398079			112.09- 212.09	156.41
2.442	2.442 (0.533)	61	742019			244.07- 344.07	291.55
38 Acetone					CAS #: 67-64-1		
2.554	2.568 (0.557)	58	199799	48.0600	48.060	50.00- 150.00	100.00
2.554	2.568 (0.557)	43	670019			289.34- 389.34	335.35
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	1202701	52.3119	52.312	50.00- 150.00	100.00
41 2-Propanol					CAS #: 67-63-0		
2.694	2.722 (0.588)	45	716716	48.9072	48.907	50.00- 150.00	100.00
2.694	2.722 (0.588)	43	178040			0.00- 73.36	24.84
2.694	2.722 (0.588)	59	27547			0.00- 53.87	3.84
44 3-Chloropropene					CAS #: 107-05-1		
2.848	2.848 (0.621)	76	205458	52.3054	52.305	50.00- 150.00	100.00
2.848	2.848 (0.621)	41	547144			230.86- 330.86	266.30
46 Methylene Chloride					CAS #: 75-09-2		
3.016	3.015 (0.658)	49	494089	46.7256	46.726	50.00- 150.00	100.00
3.016	3.015 (0.658)	84	358360			23.22- 123.22	72.53
3.016	3.015 (0.658)	51	149620			0.00- 83.45	30.28
48 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.156	3.169 (0.689)	59	92992	5.01187	5.012	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
48 tert-Butyl-Alcohol (continued)							
3.156	3.169 (0.689)	41	21008			0.00- 87.45	22.59
3.156	3.169 (0.689)	57	9773			0.00- 77.87	10.51
50 MTBE					CAS #: 1634-04-4		
3.254	3.253 (0.710)	73	1286415	51.0384	51.038	50.00- 150.00	100.00
3.254	3.253 (0.710)	57	289776			0.00- 74.20	22.53
3.254	3.253 (0.710)	41	300670			0.00- 73.88	23.37
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.268	3.267 (0.713)	98	301235	52.9897	52.990	50.00- 150.00	100.00
3.268	3.267 (0.713)	61	751723			199.14- 299.14	249.55
3.268	3.267 (0.713)	96	467372			115.75- 215.75	155.15
58 Hexane					CAS #: 110-54-3		
3.491	3.491 (0.762)	57	773760	49.6362	49.636	50.00- 150.00	100.00
3.491	3.491 (0.762)	43	473733			8.36- 108.36	61.22
3.505	3.491 (0.765)	86	123799			0.00- 64.99	16.00
63 Isopropyl ether					CAS #: 108-20-3		
3.771	3.771 (0.823)	45	201882	5.20219	5.202	50.00- 150.00	100.00
3.771	3.771 (0.823)	87	62893			0.00- 80.45	31.15
3.771	3.771 (0.823)	59	25330			0.00- 62.10	12.55
64 1,1-Dichloroethane					CAS #: 75-34-3		
3.757	3.757 (0.820)	63	938615	49.7809	49.781	50.00- 150.00	100.00
3.757	3.757 (0.820)	65	292396			0.00- 81.76	31.15
65 Vinyl Acetate					CAS #: 108-05-4		
3.813	3.813 (0.832)	86	110034	50.8359	50.836	50.00- 150.00	100.00
3.813	3.813 (0.832)	43	1313562			1105.35-1205.35	1193.77
72 t-Butylethyl Ether					CAS #: 637-92-3		
4.135	4.149 (0.902)	59	192389	5.60516	5.605	50.00- 150.00	100.00
4.149	4.149 (0.905)	87	73690			0.00- 88.67	38.30
4.135	4.149 (0.902)	41	39967			0.00- 69.90	20.77
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.359	4.359 (0.951)	98	336359	51.3363	51.336	50.00- 150.00	100.00
4.359	4.359 (0.951)	96	524006			105.73- 205.73	155.79
4.359	4.359 (0.951)	61	782431			177.29- 277.29	232.62
75 2-Butanone					CAS #: 78-93-3		
4.387	4.387 (0.957)	72	235671	52.3879	52.388	50.00- 150.00	100.00
4.387	4.387 (0.957)	43	1083649			316.60- 416.60	459.81
4.387	4.387 (0.957)	57	87153			0.00- 84.15	36.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
78 Tetrahydrofuran					CAS #: 109-99-9		
4.583	4.583 (1.000)	42	607342	51.9379	51.938	50.00- 150.00	100.00
4.583	4.583 (1.000)	71	224172			0.00- 86.23	36.91
4.583	4.583 (1.000)	72	239245			0.00- 90.19	39.39
80 Chloroform					CAS #: 67-66-3		
4.653	4.666 (1.015)	83	1188530	51.4021	51.402	50.00- 150.00	100.00
4.653	4.666 (1.015)	85	752682			11.87- 111.87	63.33
83 Cyclohexane					CAS #: 110-82-7		
4.765	4.764 (1.040)	84	729441	51.9888	51.989	50.00- 150.00	100.00
4.765	4.764 (1.040)	56	911812			73.57- 173.57	125.00
4.765	4.764 (1.040)	41	486006			18.19- 118.19	66.63
85 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.779	4.778 (1.043)	97	1280446	52.8269	52.827	50.00- 150.00	100.00
4.779	4.778 (1.043)	99	816900			14.20- 114.20	63.80
86 Carbon Tetrachloride					CAS #: 56-23-5		
4.905	4.890 (1.070)	119	1143660	54.3957	54.396	50.00- 150.00	100.00
4.905	4.890 (1.070)	117	1189731			52.41- 152.41	104.03
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.128	5.114 (1.119)	57	2943143	53.3632	53.363	50.00- 150.00	100.00
5.128	5.114 (1.119)	56	944614			0.00- 82.22	32.10
5.128	5.114 (1.119)	41	745101			0.00- 75.30	25.32
90 Benzene					CAS #: 71-43-2		
5.114	5.114 (0.929)	78	1611830	50.0338	50.034	50.00- 150.00	100.00
5.114	5.114 (0.929)	77	380709			0.00- 73.42	23.62
93 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.212	5.212 (1.137)	73	174525	5.46905	5.469	50.00- 150.00	100.00
5.212	5.212 (1.137)	87	45135			0.00- 75.15	25.86
5.212	5.212 (1.137)	55	66667			0.00- 87.94	38.20
94 1,2-Dichloroethane					CAS #: 107-06-2		
5.198	5.198 (0.944)	62	911530	51.0479	51.048	50.00- 150.00	100.00
5.198	5.198 (0.944)	64	299198			0.00- 83.91	32.82
95 Heptane					CAS #: 142-82-5		
5.296	5.296 (0.962)	71	604282	52.2435	52.244	50.00- 150.00	100.00
5.296	5.296 (0.962)	43	1164902			140.26- 240.26	192.77
5.296	5.296 (0.962)	57	649805			59.88- 159.88	107.53
104 Trichloroethene					CAS #: 79-01-6		
5.702	5.702 (1.036)	95	844204	53.5454	53.545	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
104 Trichloroethene (continued)							
5.702	5.702 (1.036)	130	836889			49.11- 149.11	99.13
5.702	5.702 (1.036)	97	537580			15.29- 115.29	63.68
105 Methyl Cyclohexane					CAS #: 108-87-2		
5.800	5.800 (1.266)	83	1120282	53.3914	53.391	50.00- 150.00	100.00
5.800	5.800 (1.266)	98	551327			0.00- 98.14	49.21
5.800	5.800 (1.266)	55	993983			38.79- 138.79	88.73
106 1,2-Dichloropropane					CAS #: 78-87-5		
5.926	5.926 (1.076)	63	699240	51.2149	51.215	50.00- 150.00	100.00
5.926	5.926 (1.076)	62	508122			20.55- 120.55	72.67
5.926	5.926 (1.076)	41	429243			11.27- 111.27	61.39
107 1,4-Dioxane					CAS #: 123-91-1		
6.038	6.038 (1.097)	88	430905	53.0522	53.052	50.00- 150.00	100.00
6.024	6.038 (1.094)	58	334766			26.67- 126.67	77.69
6.024	6.038 (1.094)	57	110239			0.00- 76.79	25.58
108 Bromodichloromethane					CAS #: 75-27-4		
6.164	6.164 (1.119)	83	1463788	53.3664	53.366	50.00- 150.00	100.00
6.164	6.164 (1.119)	85	908921			12.41- 112.41	62.09
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.556	6.555 (1.191)	75	1108464	53.5106	53.511	50.00- 150.00	100.00
6.556	6.555 (1.191)	77	353129			0.00- 82.98	31.86
6.556	6.555 (1.191)	39	571548			1.60- 101.60	51.56
112 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.682	6.681 (1.213)	58	638156	52.8381	52.838	50.00- 150.00	100.00
6.682	6.681 (1.213)	43	1675547			205.82- 305.82	262.56
6.682	6.681 (1.213)	85	260859			0.00- 91.74	40.88
115 Toluene					CAS #: 108-88-3		
6.793	6.793 (1.234)	91	2296538	49.8076	49.808	50.00- 150.00	100.00
6.793	6.793 (1.234)	92	1398503			10.33- 110.33	60.90
118 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.045	7.031 (0.886)	75	1235705	52.5486	52.549	50.00- 150.00	100.00
7.045	7.031 (0.886)	77	390836			0.00- 84.69	31.63
7.031	7.031 (0.884)	39	588467			0.00- 96.57	47.62
120 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.185	7.185 (0.903)	97	891076	52.6255	52.626	50.00- 150.00	100.00
7.185	7.185 (0.903)	99	550182			11.31- 111.31	61.74
7.185	7.185 (0.903)	83	763881			37.82- 137.82	85.73

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.227	7.227 (0.909)	166	1175902	51.2989	51.299	50.00- 150.00	100.00
7.227	7.227 (0.909)	129	905937			24.82- 124.82	77.04
7.227	7.227 (0.909)	131	873666			24.46- 124.46	74.30
125 2-Hexanone					CAS #: 591-78-6		
7.381	7.381 (0.928)	58	1005329	53.4063	53.406	50.00- 150.00	100.00
7.381	7.381 (0.928)	43	1850387			131.13- 231.13	184.06
7.381	7.381 (0.928)	100	201480			0.00- 69.98	20.04
128 Dibromochloromethane					CAS #: 124-48-1		
7.493	7.493 (0.942)	129	1595661	53.2878	53.288	50.00- 150.00	100.00
7.493	7.493 (0.942)	127	1231888			26.70- 126.70	77.20
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.591	7.591 (0.954)	107	1508943	55.2044	55.204	50.00- 150.00	100.00
7.591	7.591 (0.954)	109	1419094			45.76- 145.76	94.05
135 Chlorobenzene					CAS #: 108-90-7		
7.983	7.983 (1.004)	112	2250363	47.5925	47.592	50.00- 150.00	100.00
7.983	7.983 (1.004)	114	723168			0.00- 82.34	32.14
7.983	7.983 (1.004)	77	1316536			17.83- 117.83	58.50
137 Ethyl Benzene					CAS #: 100-41-4		
8.039	8.039 (1.011)	106	1179021	54.1249	54.125	50.00- 150.00	100.00
8.039	8.039 (1.011)	91	3680219			271.23- 371.23	312.14
140 m,p-Xylene					CAS #: 108-38-3		
8.151	8.136 (1.025)	106	1471069	51.8674	51.867	50.00- 150.00	100.00
8.151	8.136 (1.025)	91	2992022			145.19- 245.19	203.39
141 o-Xylene					CAS #: 95-47-6		
8.472	8.472 (1.065)	106	1412680	52.2745	52.274	50.00- 150.00	100.00
8.472	8.472 (1.065)	91	3000788			163.74- 263.74	212.42
142 Styrene					CAS #: 100-42-5		
8.500	8.500 (1.069)	104	2340154	54.1590	54.159	50.00- 150.00	100.00
8.500	8.500 (1.069)	78	1216335			3.22- 103.22	51.98
145 Bromoform					CAS #: 75-25-2		
8.682	8.682 (1.091)	173	1581426	54.5124	54.512	50.00- 150.00	100.00
8.682	8.682 (1.091)	171	800986			1.08- 101.08	50.65
147 Cumene					CAS #: 98-82-8		
8.766	8.766 (1.102)	105	4309094	53.0840	53.084	50.00- 150.00	100.00
8.766	8.766 (1.102)	120	1133141			0.00- 76.35	26.30

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

  147 Cumene (continued)
  8.766   8.766 (1.102)    51    434306                     0.00-  60.48    10.08
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.074   9.074 (1.141)    83   2320842 53.7082   53.708  50.00- 150.00   100.00
  9.074   9.074 (1.141)    85   1460555                   11.85- 111.85    62.93
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.144)    91   5259461 53.7621   53.762  50.00- 150.00   100.00
  9.116   9.102 (1.146)   120   1221705                    0.00-  73.32    23.23
  9.116   9.102 (1.146)   105    196608                    0.00-  54.41     3.74
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.200   9.200 (1.157)   120   1386711 52.9902   52.990  50.00- 150.00   100.00
  9.200   9.200 (1.157)   105   4717407                  285.66- 385.66   340.19
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.256   9.256 (1.164)   120   1913915 51.8589   51.859  50.00- 150.00   100.00
  9.256   9.256 (1.164)   105   3976910                  161.17- 261.17   207.79
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.578   9.578 (1.204)   120   1792505 53.8686   53.868  50.00- 150.00   100.00
  9.578   9.578 (1.204)   105   3905371                  168.63- 268.63   217.87
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.844   9.829 (1.237)   146   2647545 53.0189   53.019  50.00- 150.00   100.00
  9.844   9.829 (1.237)   148   1675917                   14.02- 114.02    63.30
  9.830   9.829 (1.236)   111   1098289                    0.00-  92.07    41.48
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.914   9.913 (1.246)   146   2749719 54.1701   54.170  50.00- 150.00   100.00
  9.914   9.913 (1.246)   148   1720710                   13.17- 113.17    62.58
  9.914   9.913 (1.246)   111   1085481                    0.00-  90.44    39.48
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.040  10.039 (1.262)    91   3405564 53.3271   53.327  50.00- 150.00   100.00
 10.040  10.039 (1.262)   126    711753                    0.00-  70.60    20.90
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.235  10.235 (1.287)   146   2528845 53.1882   53.188  50.00- 150.00   100.00
 10.235  10.235 (1.287)   148   1607146                   12.90- 112.90    63.55
 10.235  10.235 (1.287)   111   1107507                    0.00-  93.42    43.79
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.551  11.550 (1.452)   180   2233797 52.1360   52.136  50.00- 150.00   100.00
 11.551  11.550 (1.452)   182   2125802                   45.06- 145.06    95.17
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RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene					CAS #: 87-68-3		
11.649	11.648 (1.464)	225	1699535	54.2093	54.209	50.00- 150.00	100.00
11.649	11.648 (1.464)	223	1070549			44.84- 144.84	62.99
176 Naphthalene					CAS #: 91-20-3		
11.775	11.774 (1.480)	128	509687	4.78619	4.786	50.00- 150.00	100.00
11.775	11.774 (1.480)	127	62468			0.00- 62.92	12.26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092411.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	220734	0.45
100 1,4-Difluorobenze	915405	549243	1281567	937789	2.45
134 Chlorobenzene-d5	1036280	621768	1450792	1096366	5.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.94	7.61	8.27	7.95	0.18

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: 27-Sep-2010 12:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 24sep10
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: LCSD
Level: LOW
Operator: mtw
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926spectra.spk
Quant Type: ISTD
Sublist File: AT10.sub
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Propylene	50.000	51.692	103.39	60-140
7 Dichlorodifluorome	50.000	54.082	108.16	70-130
10 Freon 114	50.000	53.116	106.23	70-130
13 Chloromethane	50.000	54.852	109.70	70-130
15 Vinyl Chloride	50.000	60.163	120.33	70-130
18 1,3-Butadiene	50.000	56.155	112.31	60-140
24 Bromomethane	50.000	51.358	102.72	70-130
25 Chloroethane	50.000	52.086	104.17	70-130
28 Trichlorofluoromet	50.000	54.271	108.54	70-130
29 Ethanol	50.000	48.851	97.70	60-140
33 Freon 113	50.000	47.038	94.08	70-130
34 1,1-Dichloroethene	50.000	47.201	94.40	70-130
38 Acetone	50.000	48.060	96.12	60-140
40 Carbon Disulfide	50.000	52.312	104.62	60-140
41 2-Propanol	50.000	48.907	97.81	60-140
46 Methylene Chloride	50.000	46.726	93.45	70-130
50 MTBE	50.000	51.038	102.08	60-140
52 trans-1,2-Dichloro	50.000	52.990	105.98	60-140
58 Hexane	50.000	49.636	99.27	60-140
65 Vinyl Acetate	50.000	50.836	101.67	60-140
64 1,1-Dichloroethane	50.000	49.781	99.56	70-130
74 cis-1,2-Dichloroet	50.000	51.336	102.67	70-130
75 2-Butanone	50.000	52.388	104.78	60-140
78 Tetrahydrofuran	50.000	51.938	103.88	60-140
80 Chloroform	50.000	51.402	102.80	70-130
83 Cyclohexane	50.000	51.989	103.98	60-140
85 1,1,1-Trichloroeth	50.000	52.827	105.65	70-130
86 Carbon Tetrachlori	50.000	54.396	108.79	70-130
90 Benzene	50.000	50.034	100.07	70-130
94 1,2-Dichloroethane	50.000	51.048	102.10	70-130
95 Heptane	50.000	52.244	104.49	60-140
104 Trichloroethene	50.000	53.545	107.09	70-130
106 1,2-Dichloropropan	50.000	51.215	102.43	70-130

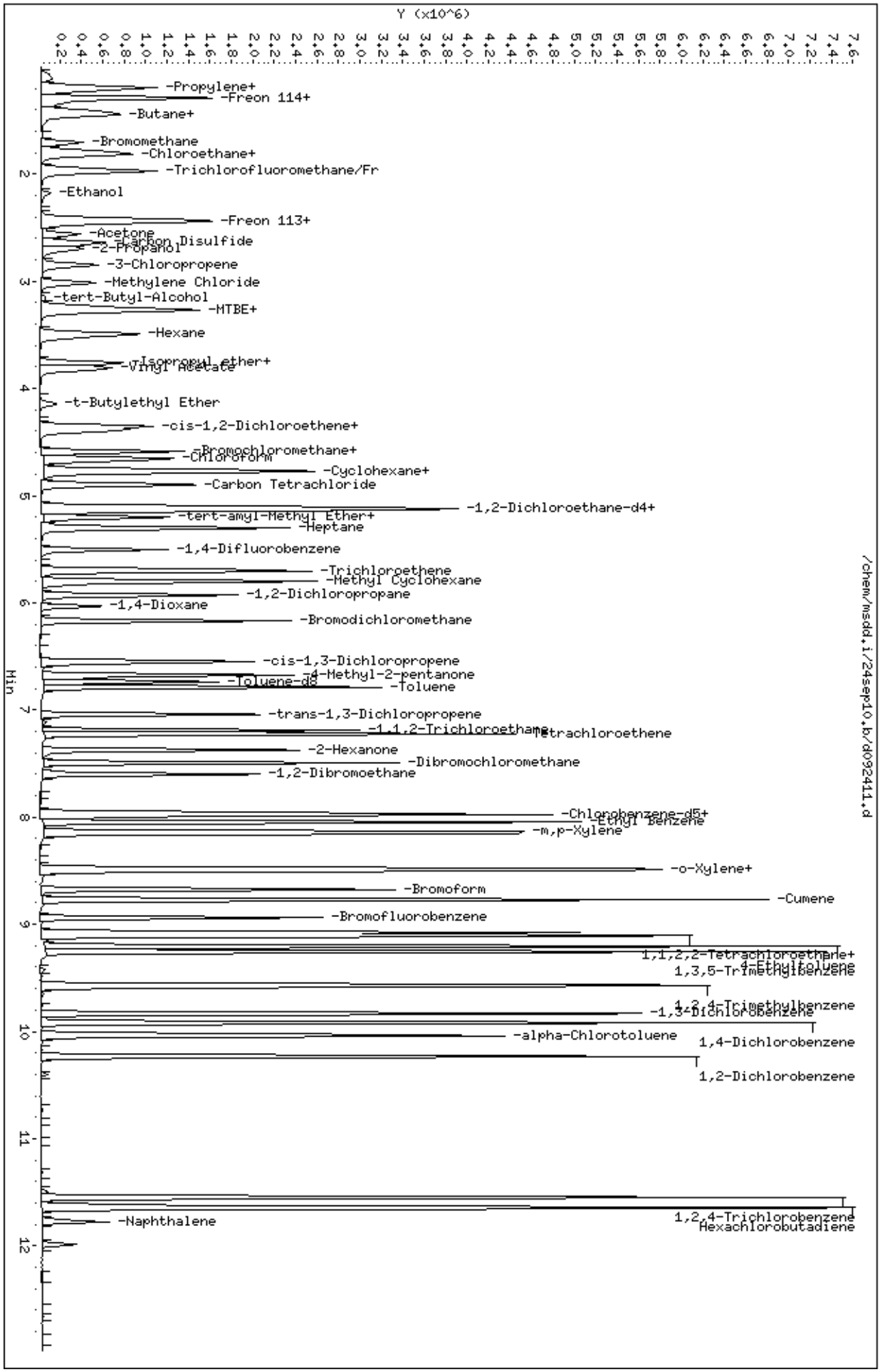
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 1,4-Dioxane	50.000	53.052	106.10	60-140
108 Bromodichlorometha	50.000	53.366	106.73	60-140
110 cis-1,3-Dichloropr	50.000	53.511	107.02	70-130
112 4-Methyl-2-pentano	50.000	52.838	105.68	60-140
115 Toluene	50.000	49.808	99.62	70-130
118 trans-1,3-Dichloro	50.000	52.549	105.10	70-130
120 1,1,2-Trichloroeth	50.000	52.626	105.25	70-130
122 Tetrachloroethene	50.000	51.299	102.60	70-130
125 2-Hexanone	50.000	53.406	106.81	60-140
128 Dibromochlorometha	50.000	53.288	106.58	60-140
130 1,2-Dibromoethane	50.000	55.204	110.41	70-130
135 Chlorobenzene	50.000	47.592	95.18	70-130
137 Ethyl Benzene	50.000	54.125	108.25	70-130
140 m,p-Xylene	50.000	51.867	103.73	70-130
141 o-Xylene	50.000	52.274	104.55	70-130
142 Styrene	50.000	54.159	108.32	70-130
145 Bromoform	50.000	54.512	109.02	60-140
151 1,1,2,2-Tetrachlor	50.000	53.708	107.42	70-130
155 4-Ethyltoluene	50.000	52.990	105.98	60-140
156 1,3,5-Trimethylben	50.000	51.859	103.72	70-130
162 1,2,4-Trimethylben	50.000	53.868	107.74	70-130
165 1,3-Dichlorobenzen	50.000	53.019	106.04	70-130
166 1,4-Dichlorobenzen	50.000	54.170	108.34	70-130
168 alpha-Chlorotoluen	50.000	53.327	106.65	70-130
171 1,2-Dichlorobenzen	50.000	53.188	106.38	70-130
174 1,2,4-Trichloroben	50.000	52.136	104.27	70-130
175 Hexachlorobutadien	50.000	54.209	108.42	70-130
153 Propylbenzene	50.000	53.762	107.52	60-140
147 Cumene	50.000	53.084	106.17	60-140
44 3-Chloropropene	50.000	52.305	104.61	60-140
89 2,2,4-Trimethylpen	50.000	53.363	106.73	60-140
26 Isopentane	50.000	57.506	115.01	70-130
14 Butane	50.000	58.964	117.93	70-130
105 Methyl Cyclohexane	50.000	53.391	106.78	70-130
48 tert-Butyl-Alcohol	5.000	5.012	100.24	60-140
176 Naphthalene	5.000	4.786	95.72	60-140
63 Isopropyl ether	5.000	5.202	104.04	60-140
72 t-Butylethyl Ether	5.000	5.605	112.10	60-140
93 tert-amyl-Methyl E	5.000	5.469	109.38	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 91 1,2-Dichloroethane	25.000	25.696	102.79	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 114 Toluene-d8	25.000	24.990	99.96	70-130
$ 149 Bromofluorobenzene	25.000	25.260	101.04	70-130

Data File: /chem/msdd.i/24sep10.b/d092411.d
Date : 24-SEP-2010 14:51
Client ID: LCSD
Sample Info: 50mL #1968-279
Column phase: RTx-624

Instrument: msdd.i
Operator: mtw
Column diameter: 0.53



Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

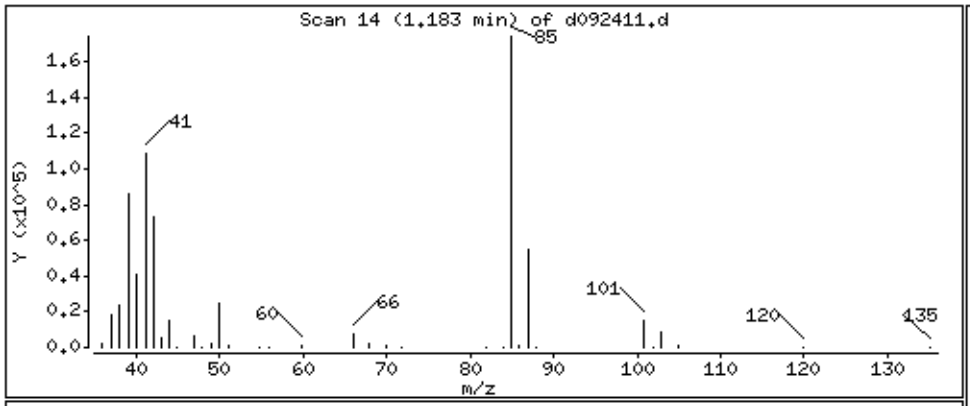
Operator: mtw

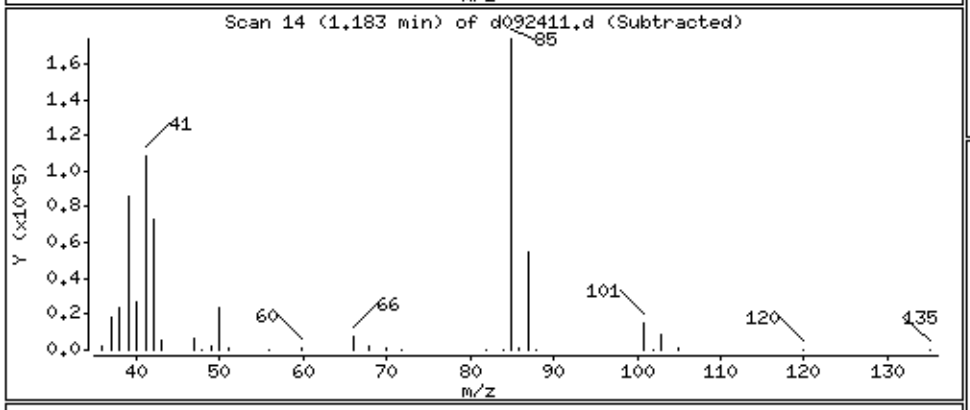
Column phase: RTx-624

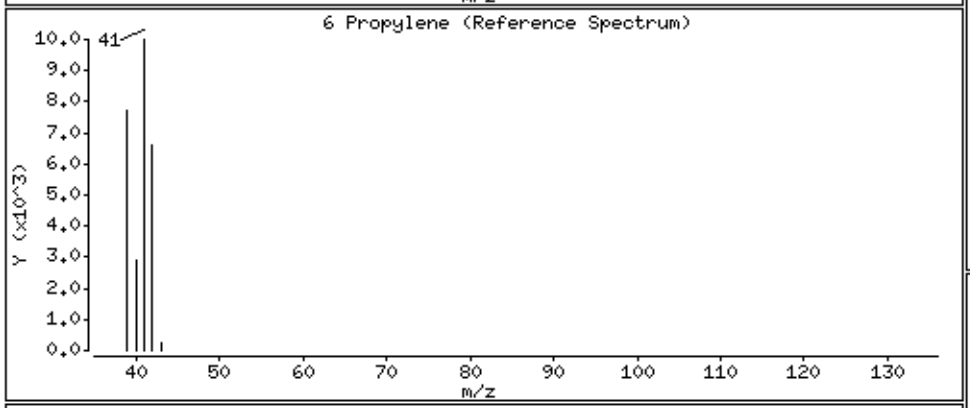
Column diameter: 0.53

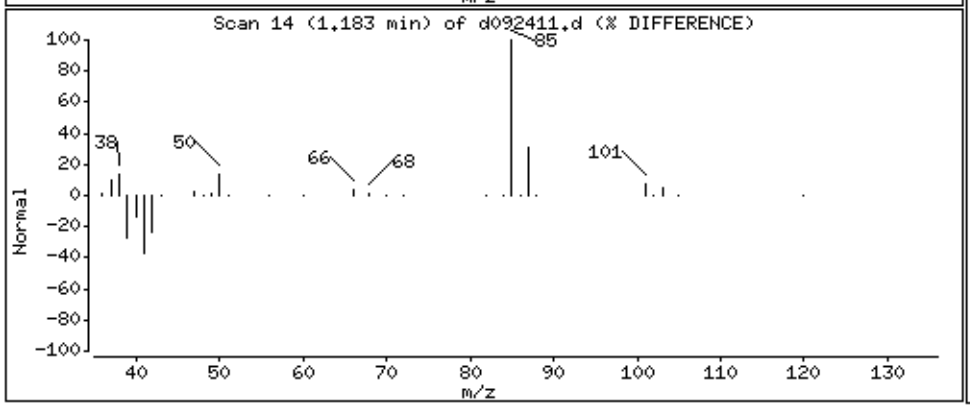
6 Propylene

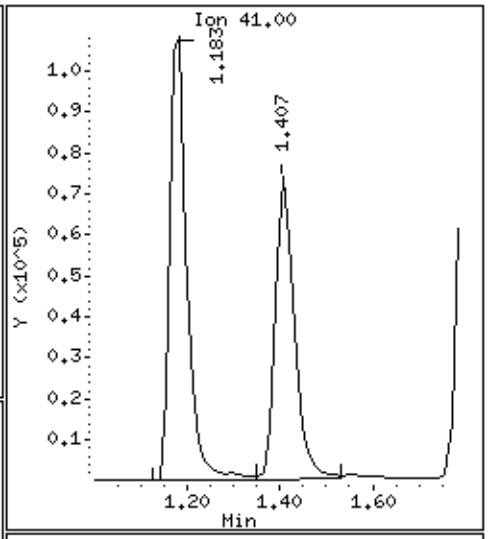
Concentration: 51.692 PPBV

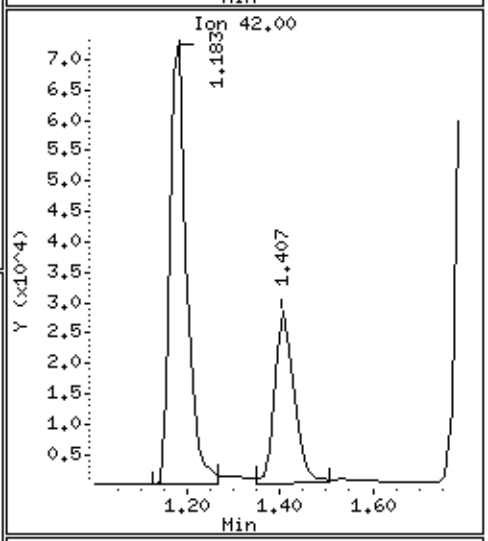


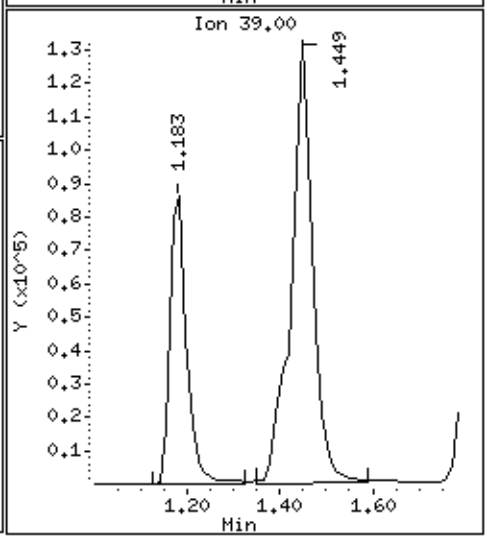












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

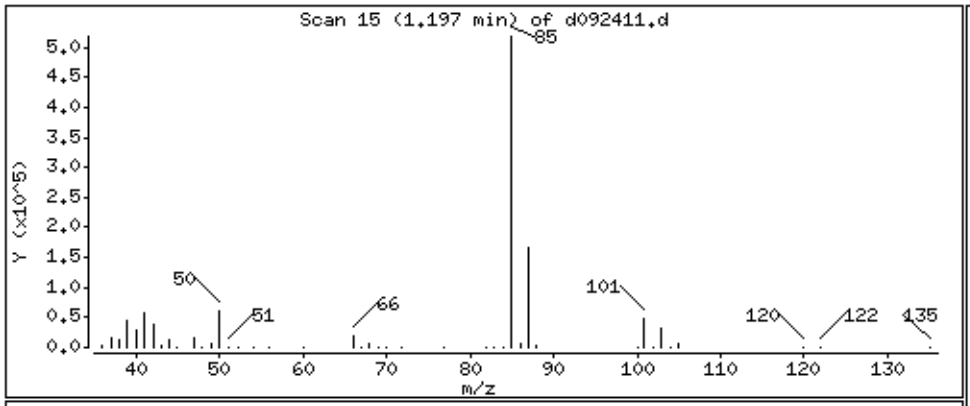
Operator: mtw

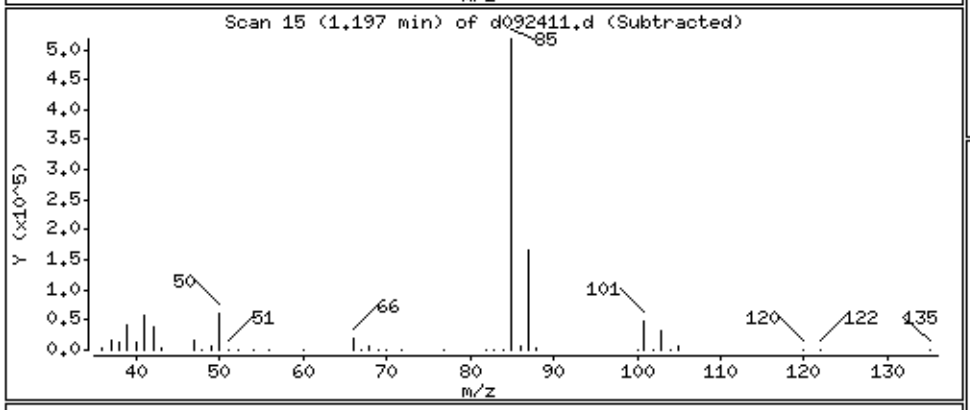
Column phase: RTx-624

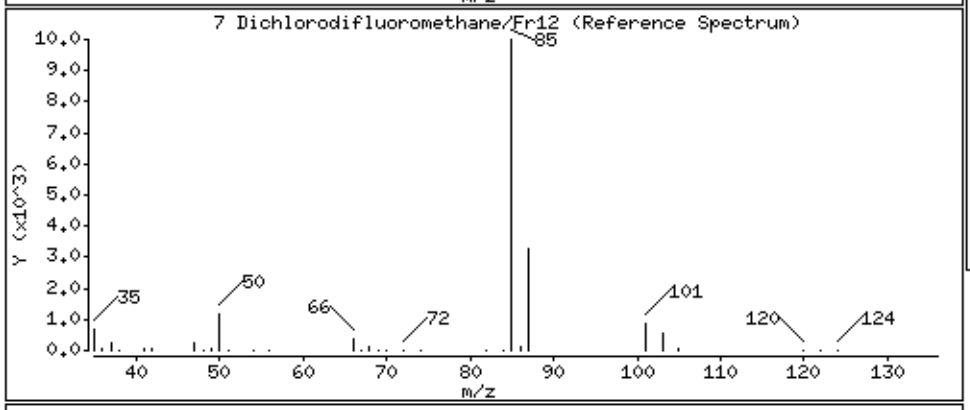
Column diameter: 0.53

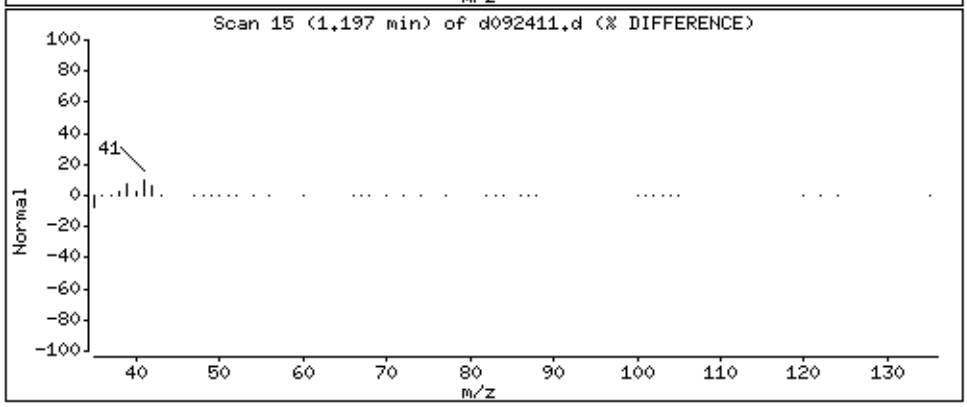
7 Dichlorodifluoromethane/Fr12

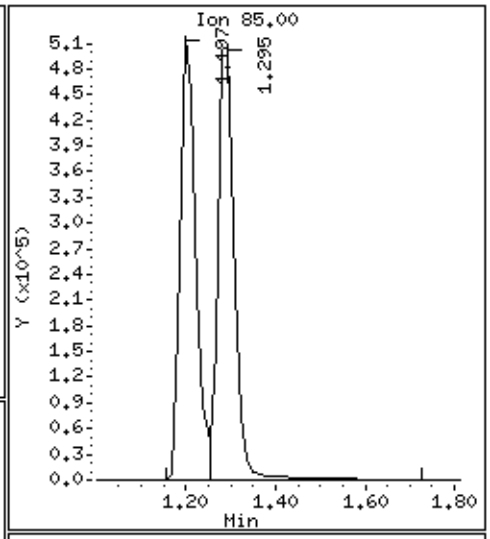
Concentration: 54.082 PPBV

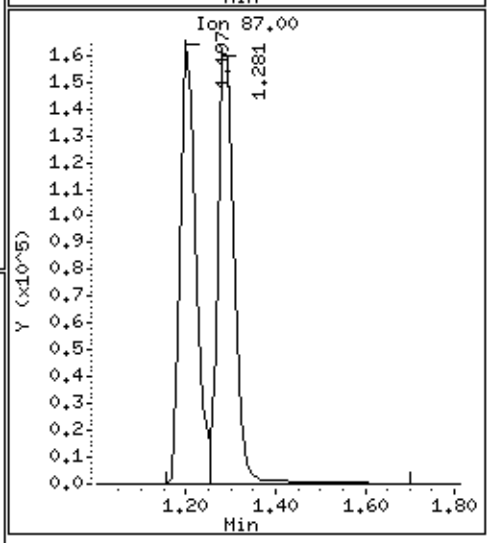












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

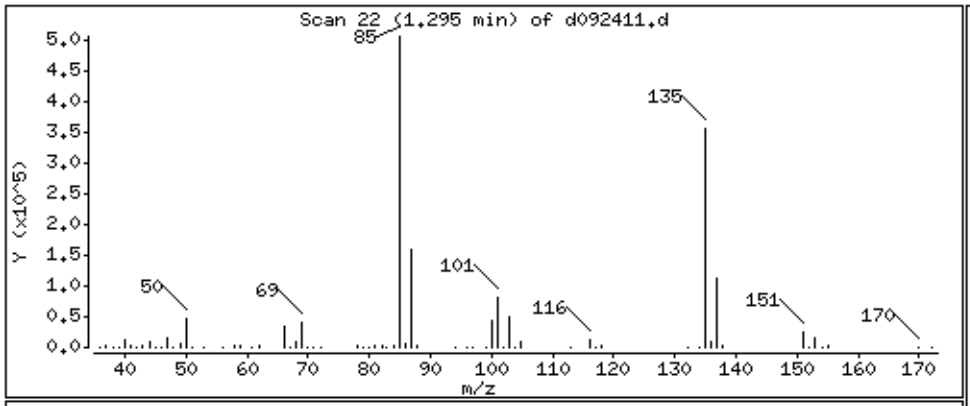
Operator: mtw

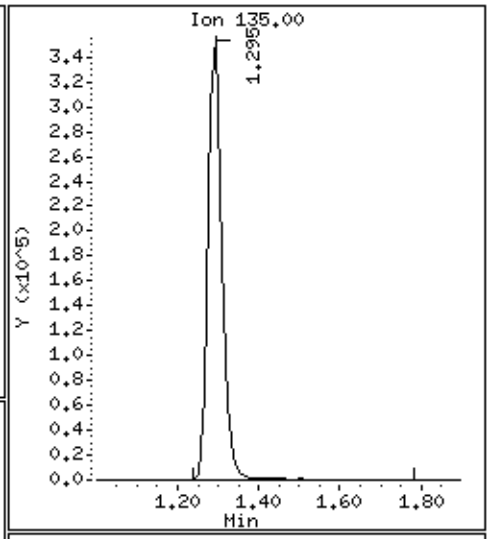
Column phase: RTx-624

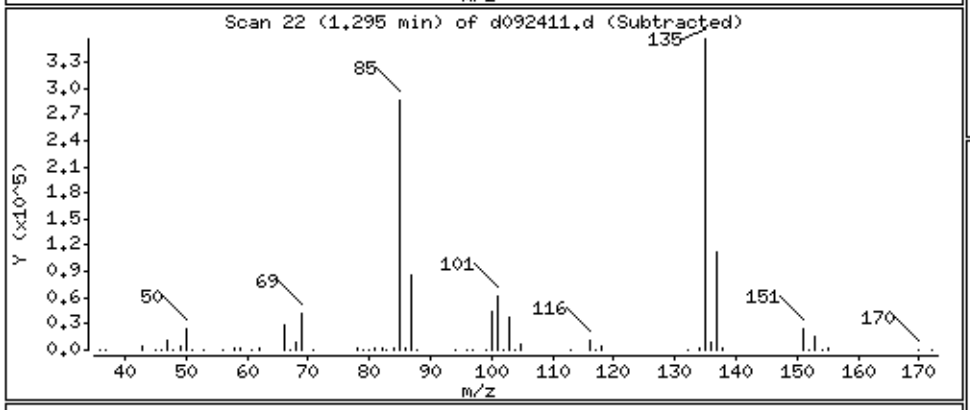
Column diameter: 0.53

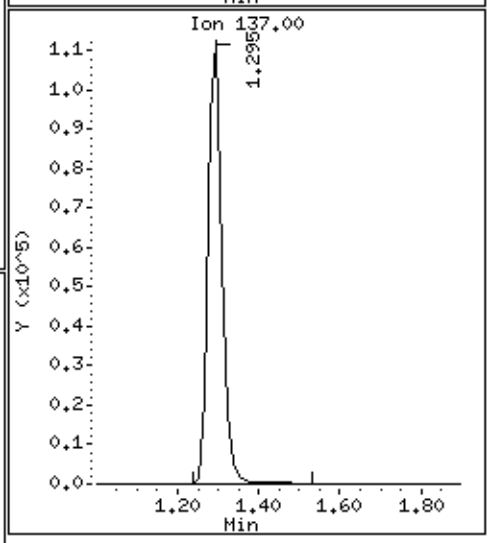
10 Freon 114

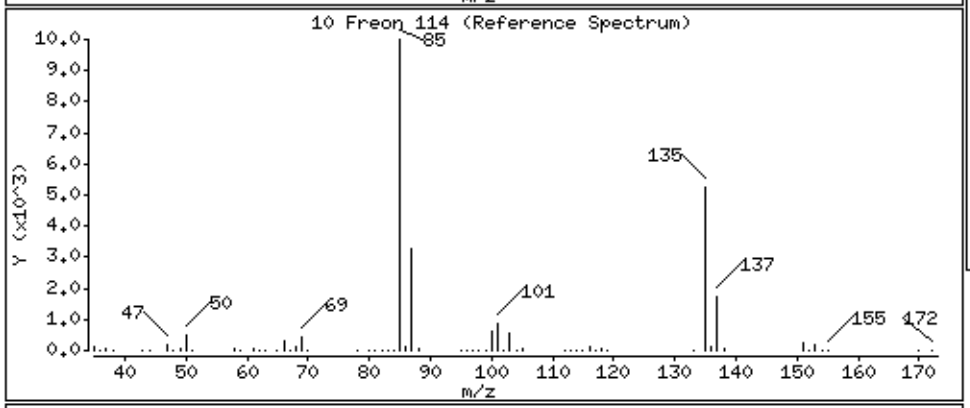
Concentration: 53.116 PPBV

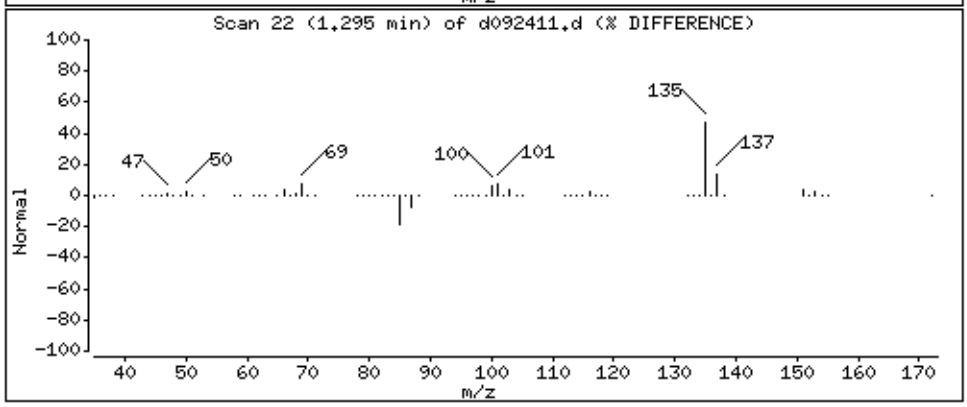












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

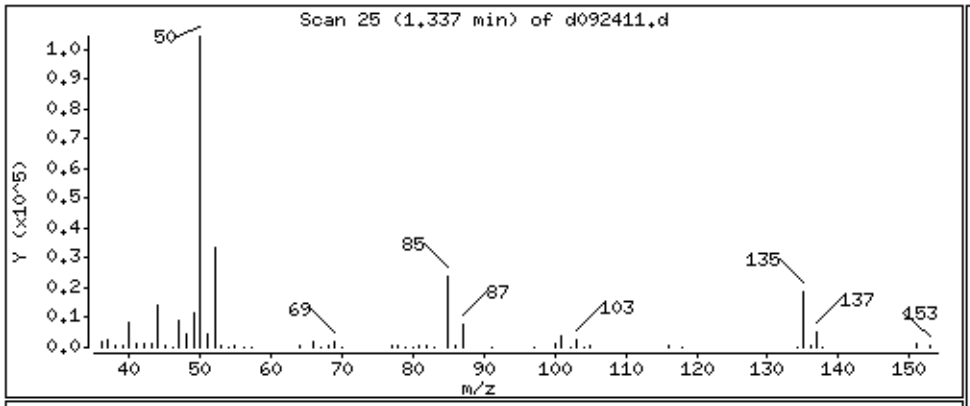
Operator: mtw

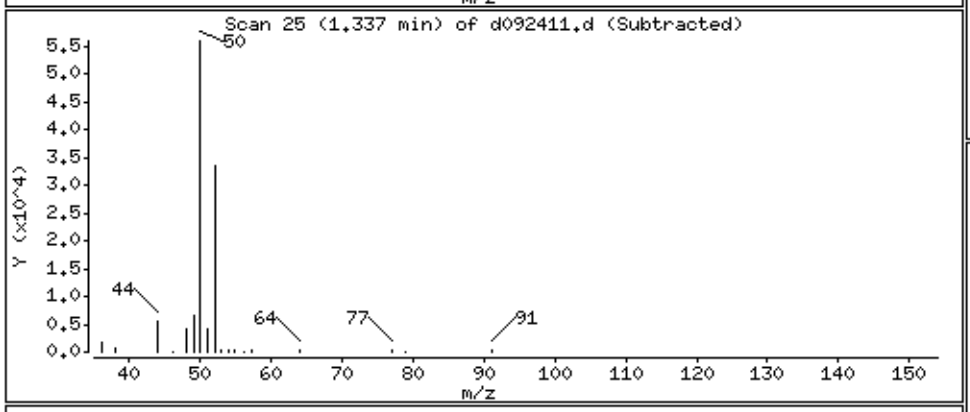
Column phase: RTx-624

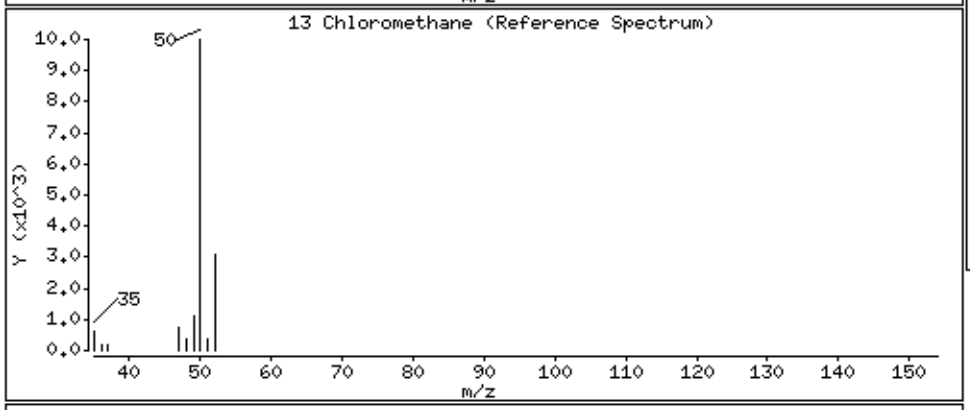
Column diameter: 0.53

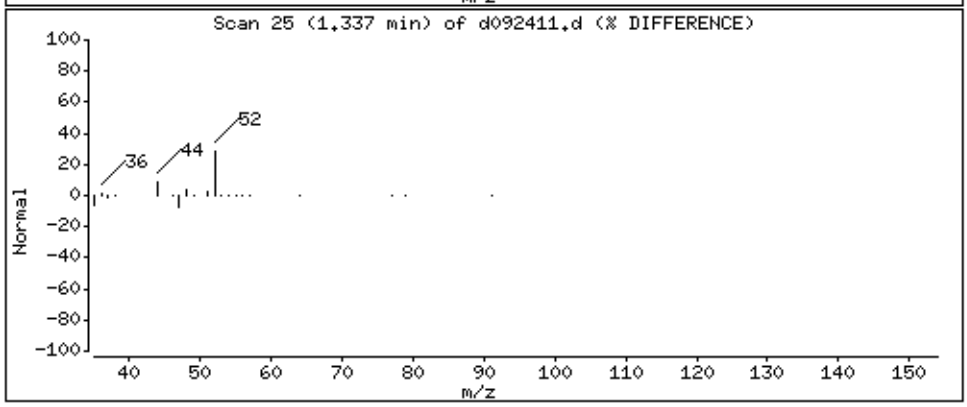
13 Chloromethane

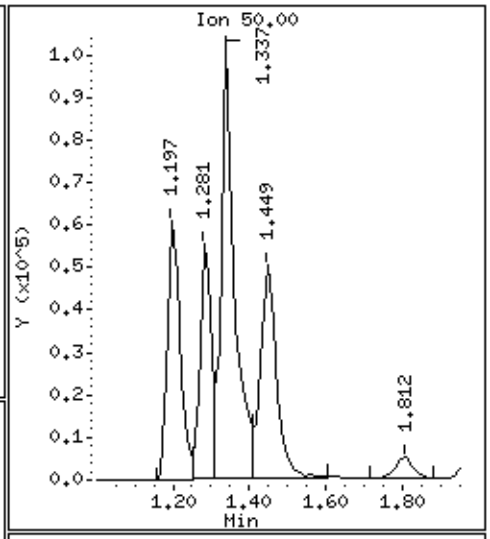
Concentration: 54.852 PPBV

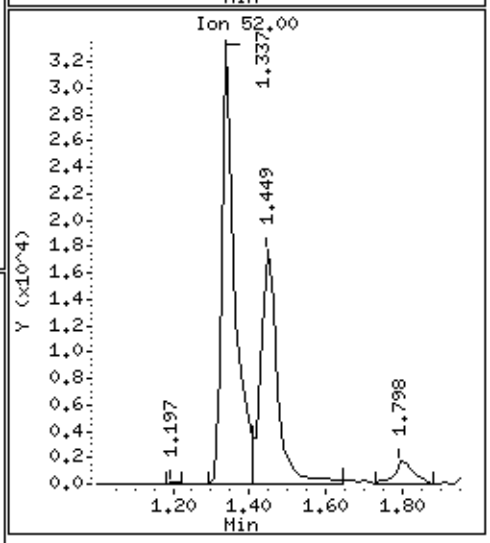












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

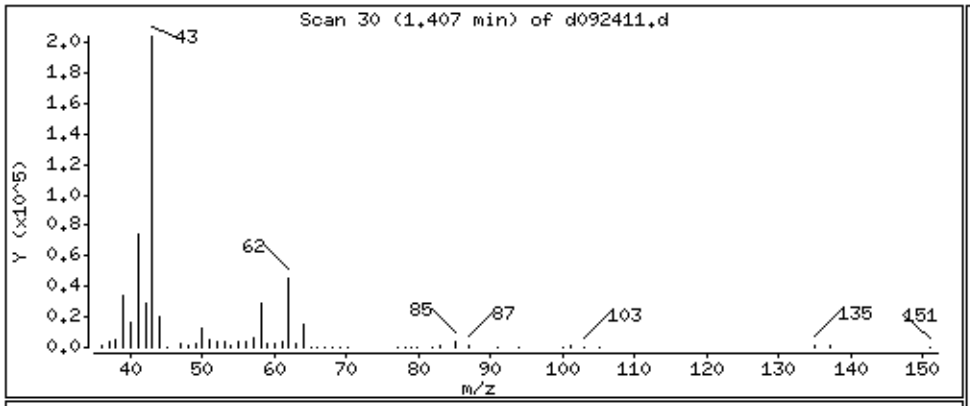
Operator: mtw

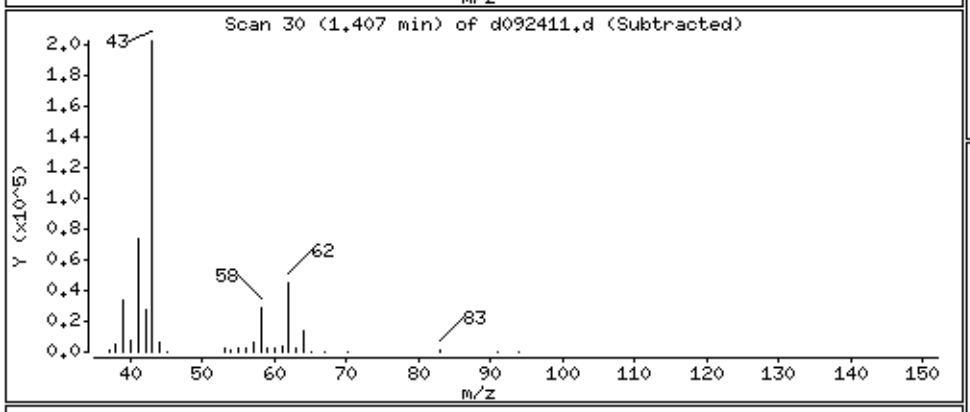
Column phase: RTx-624

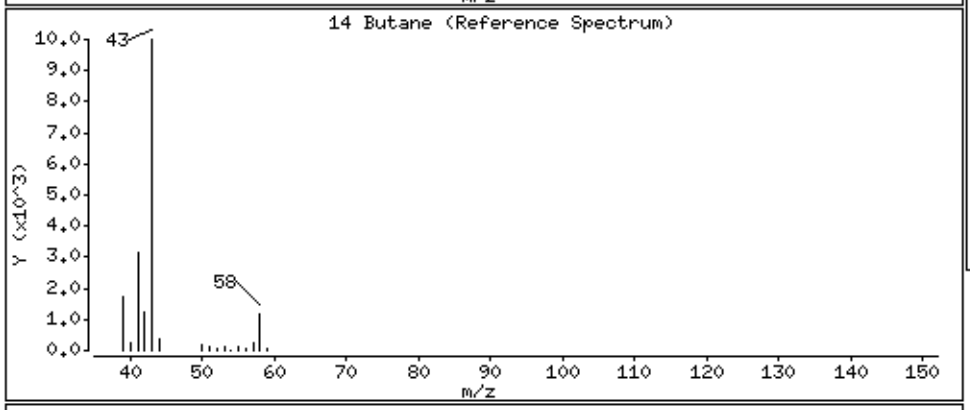
Column diameter: 0.53

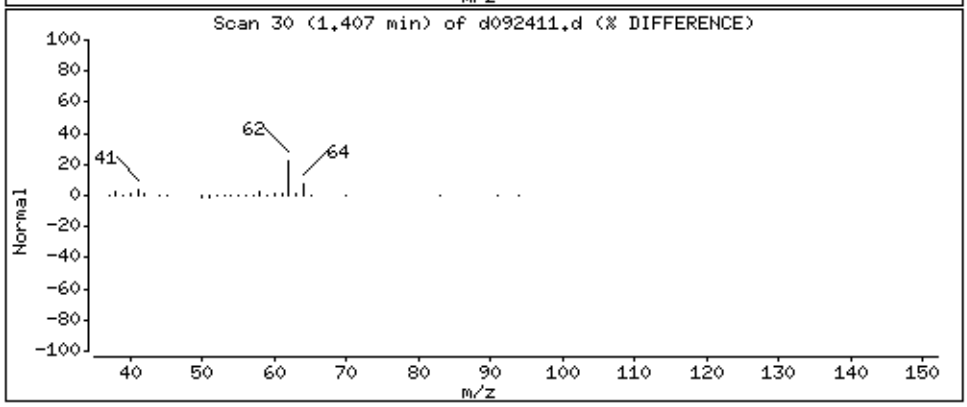
14 Butane

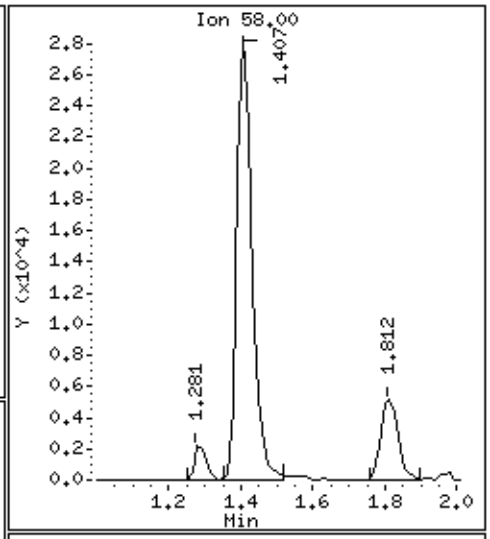
Concentration: 58.964 PPBV

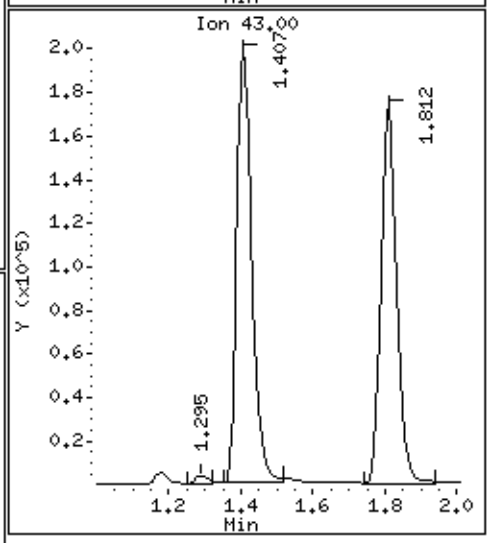












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

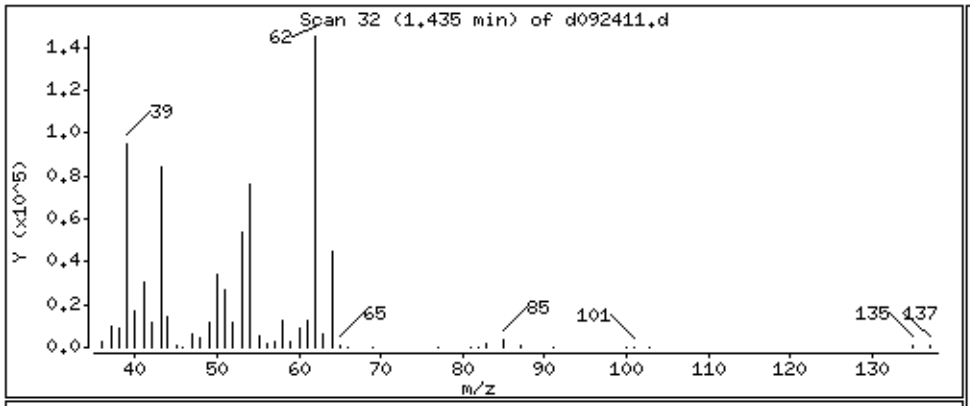
Operator: mtw

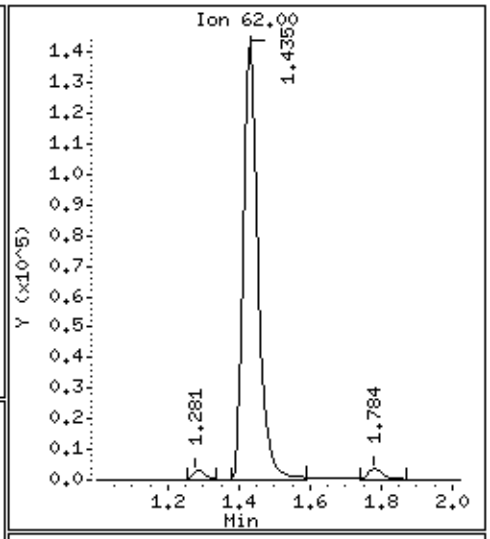
Column phase: RTx-624

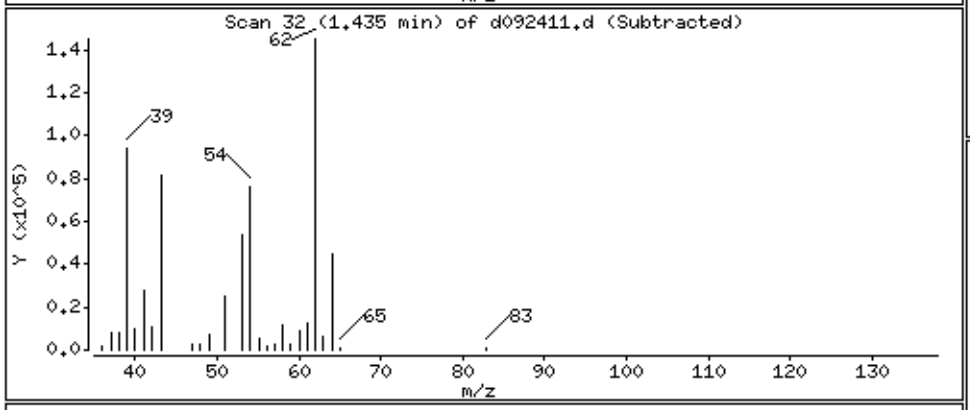
Column diameter: 0.53

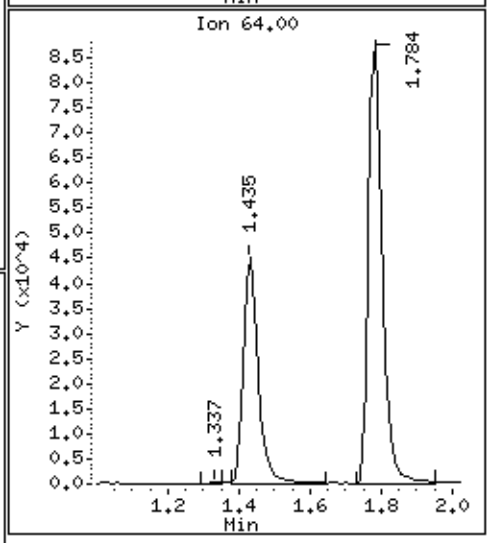
15 Vinyl Chloride

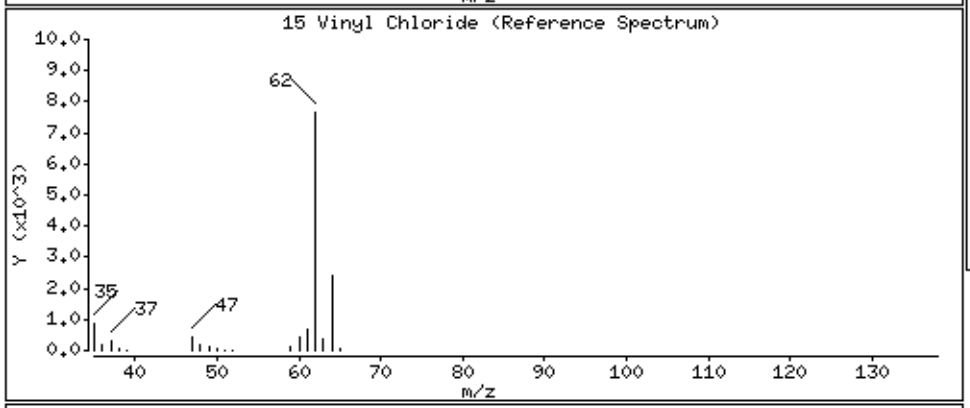
Concentration: 60.163 PPBV

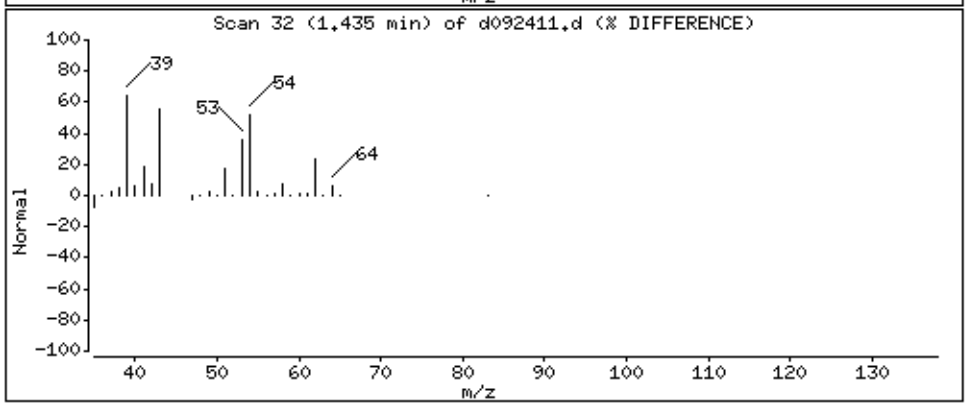












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

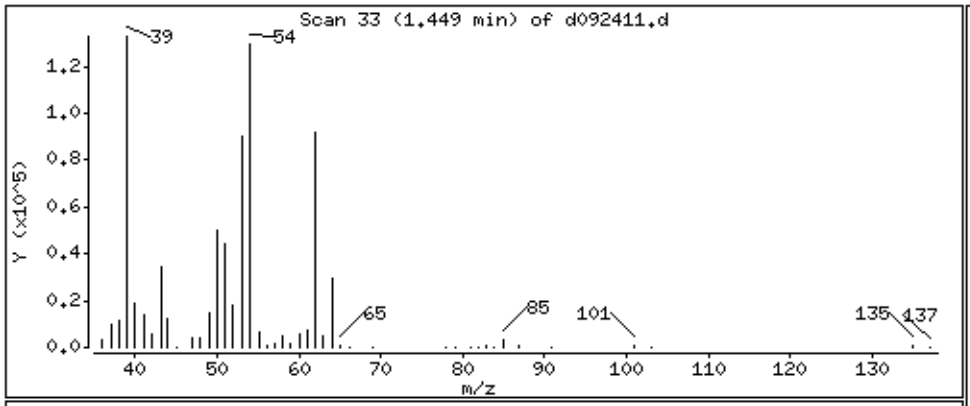
Operator: mtw

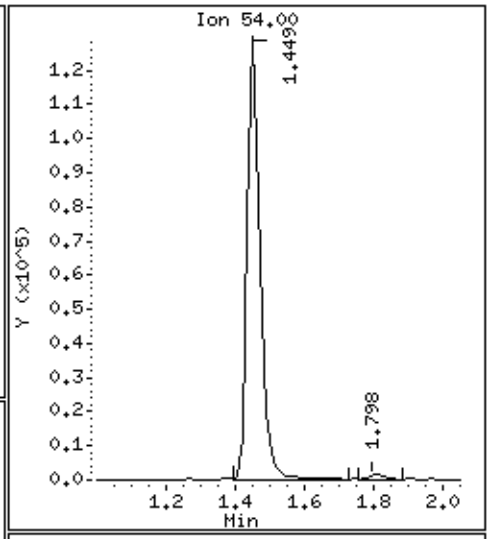
Column phase: RTx-624

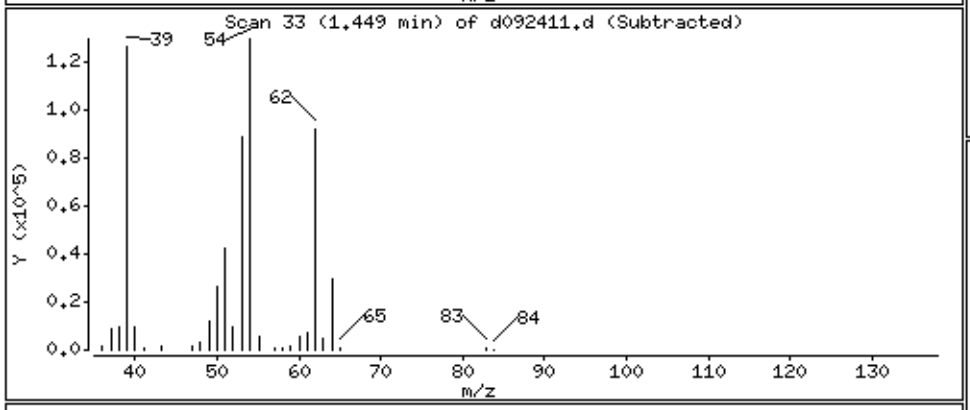
Column diameter: 0.53

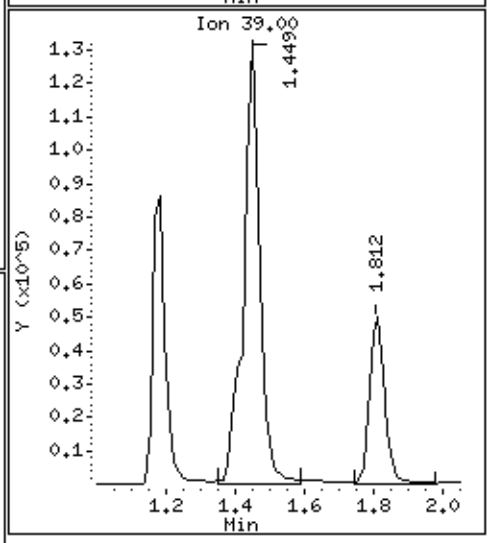
18 1,3-Butadiene

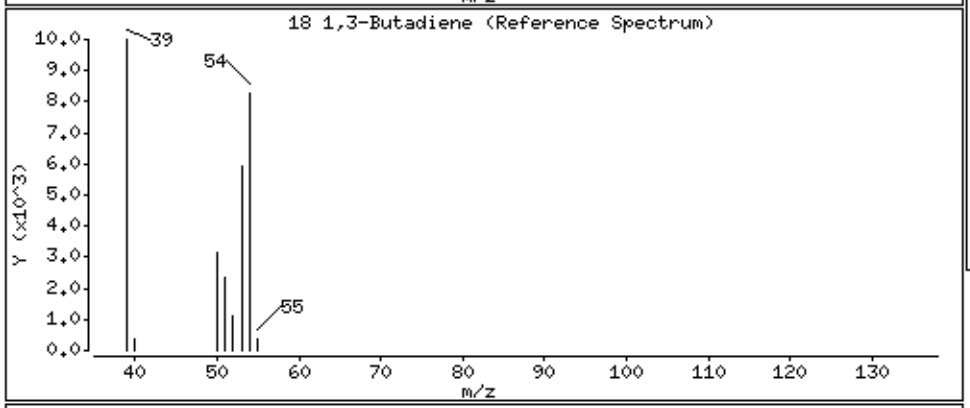
Concentration: 56.155 PPBV

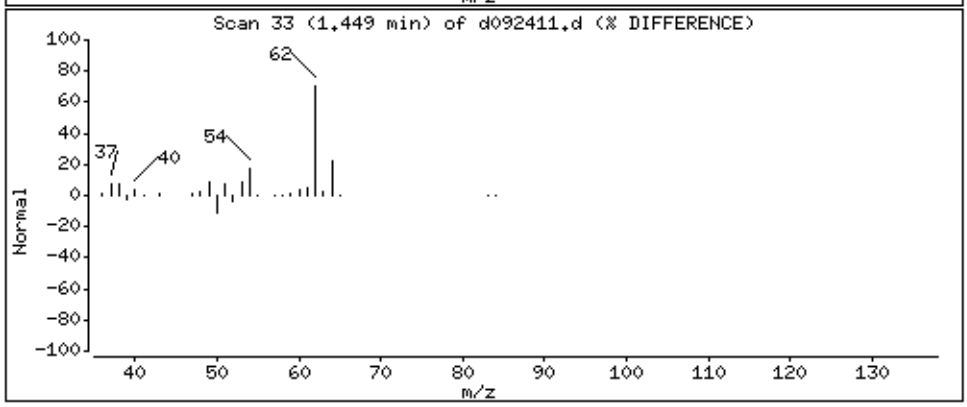












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

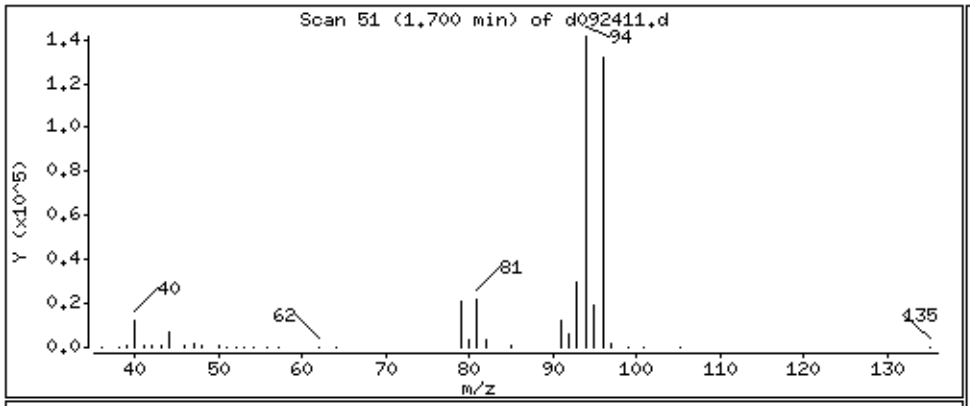
Operator: mtw

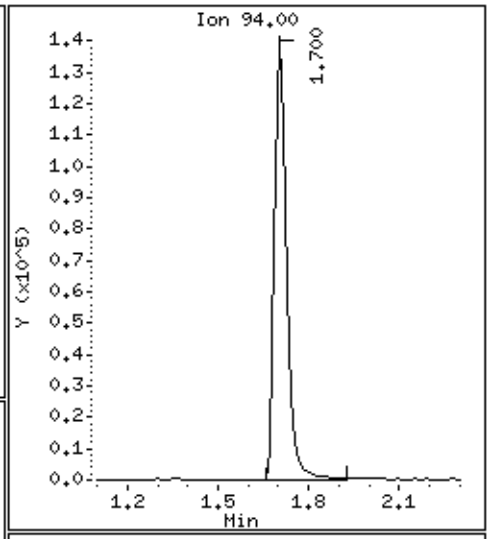
Column phase: RTx-624

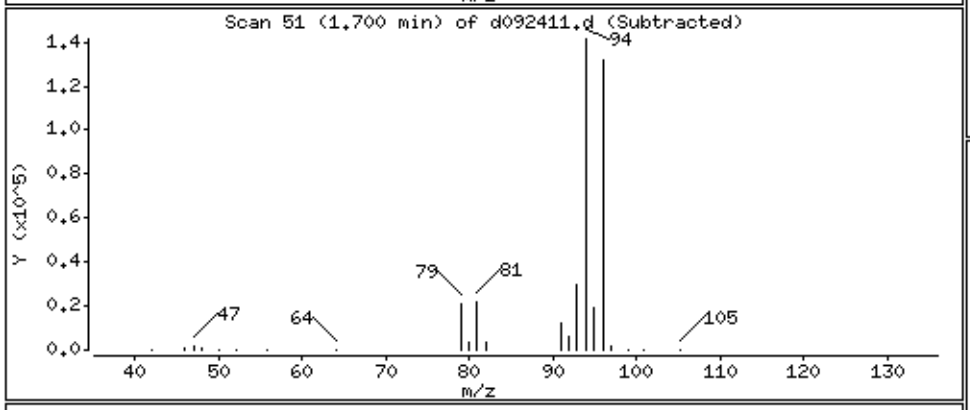
Column diameter: 0.53

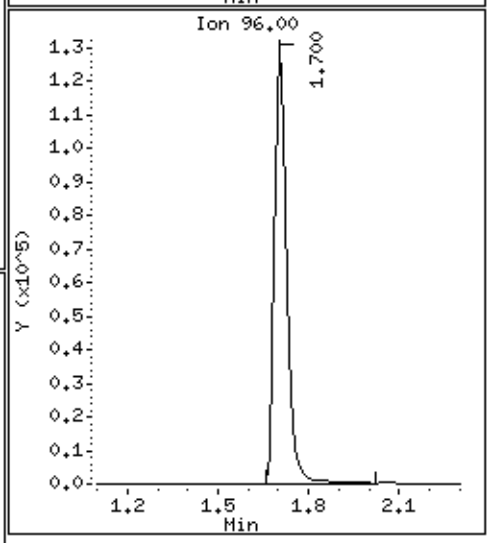
24 Bromomethane

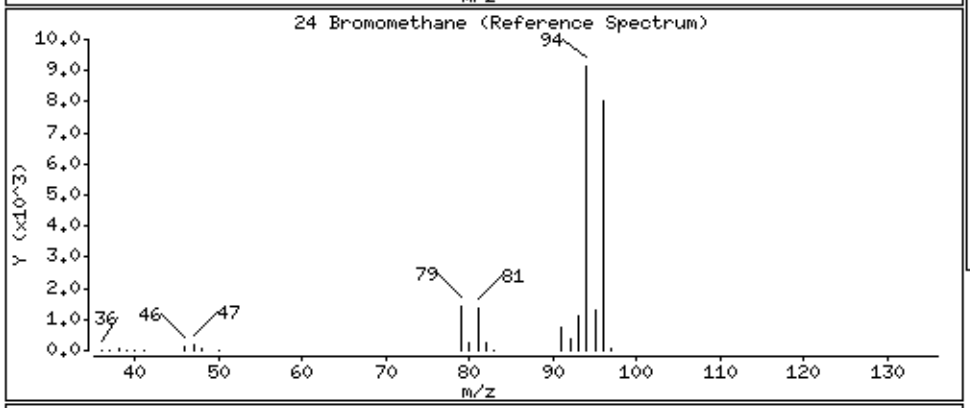
Concentration: 51.358 PPBV

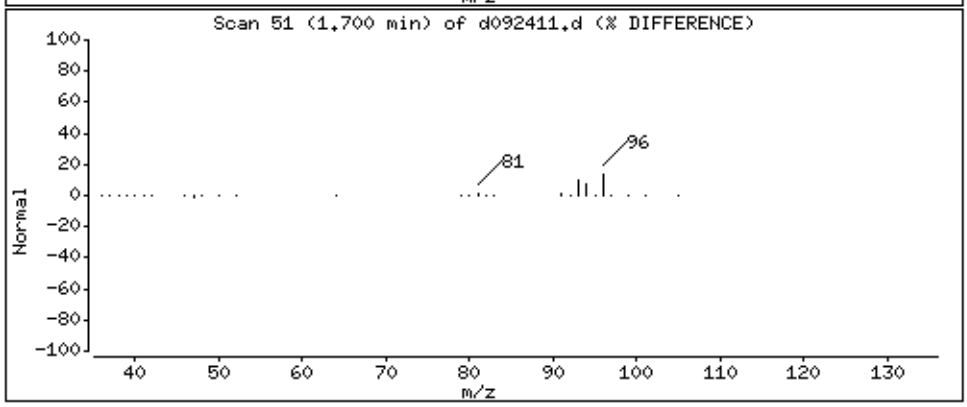












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

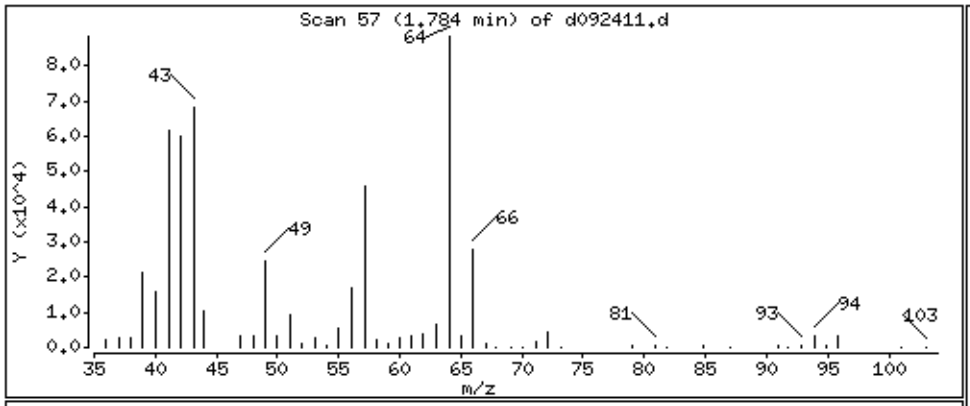
Operator: mtw

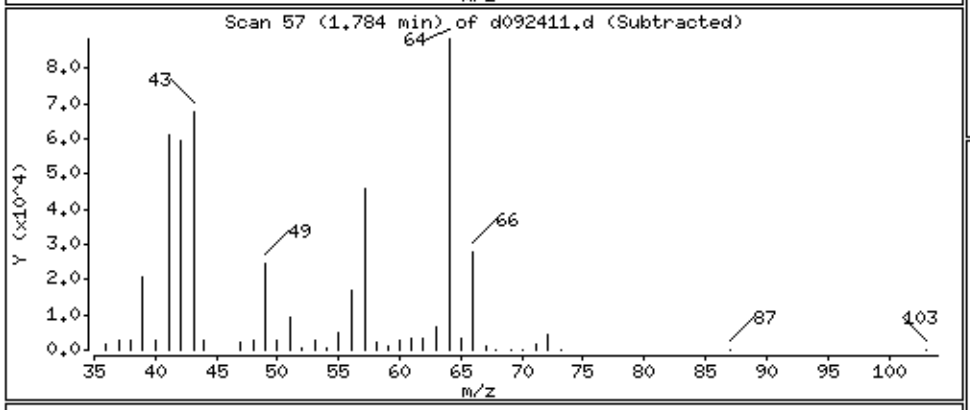
Column phase: RTx-624

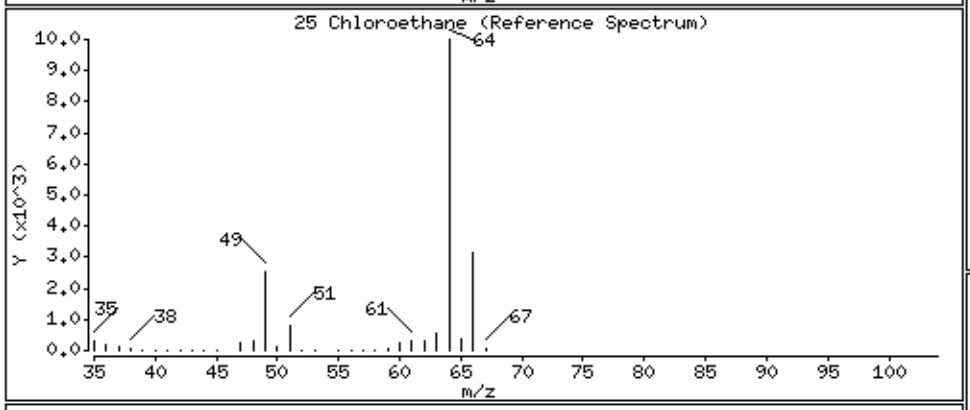
Column diameter: 0.53

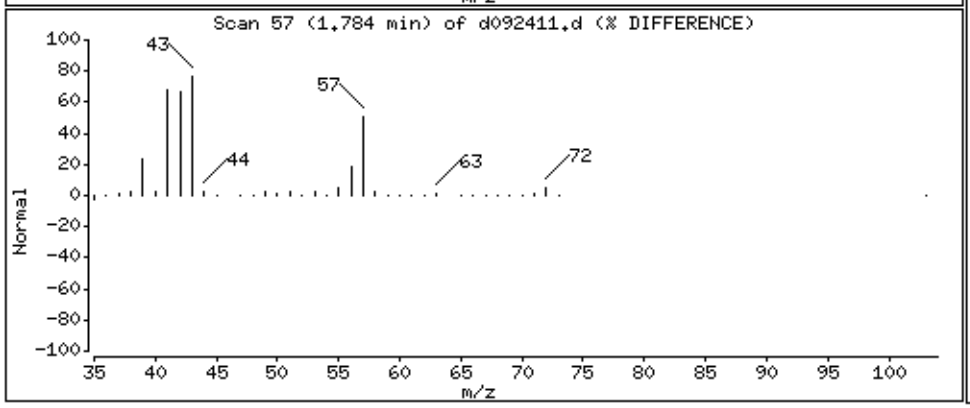
25 Chloroethane

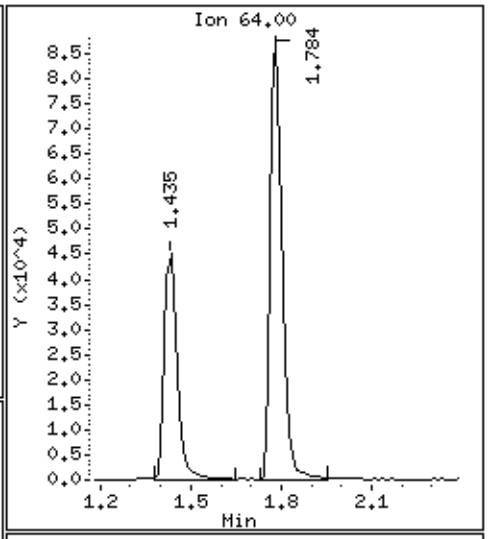
Concentration: 52.086 PPBV

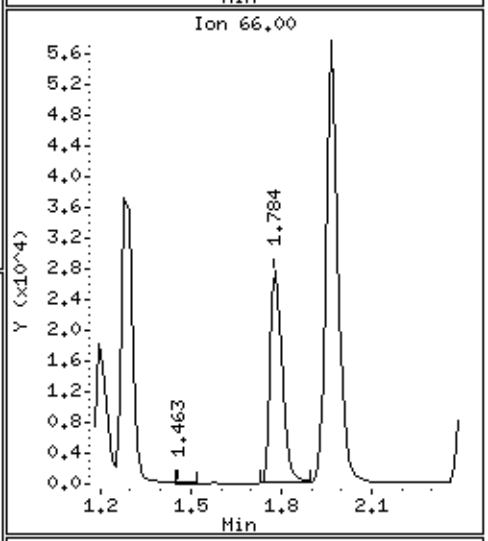


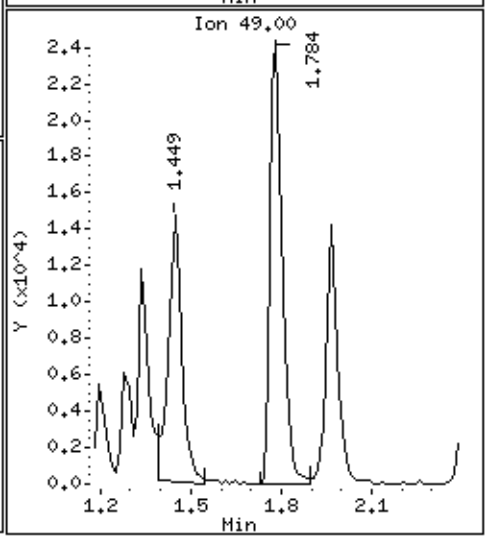












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

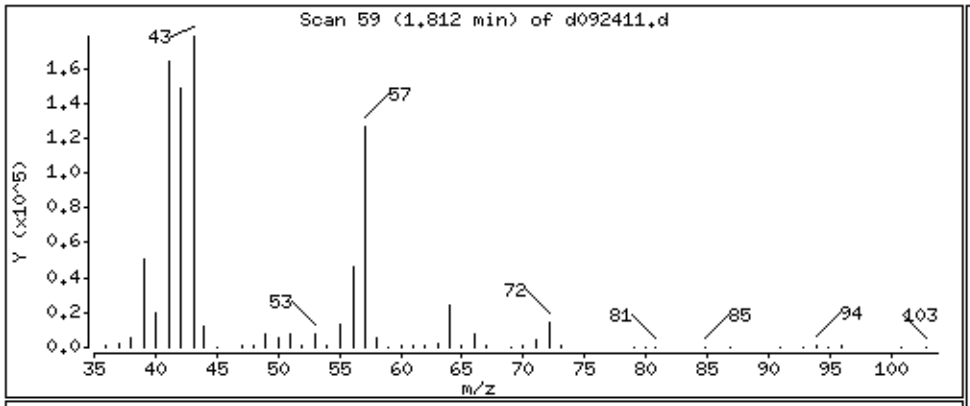
Operator: mtw

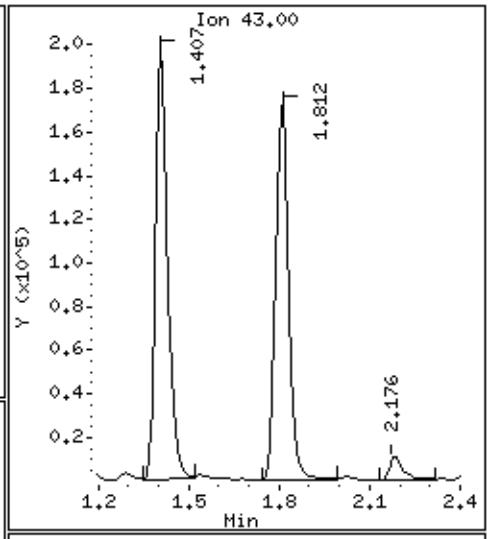
Column phase: RTx-624

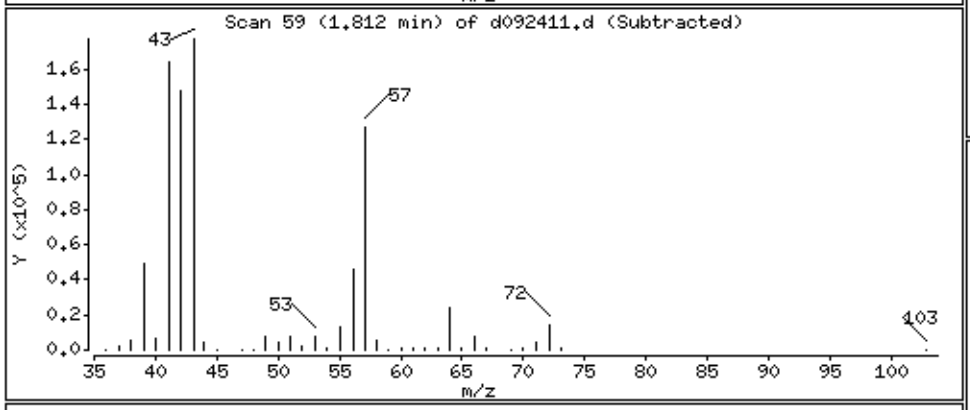
Column diameter: 0.53

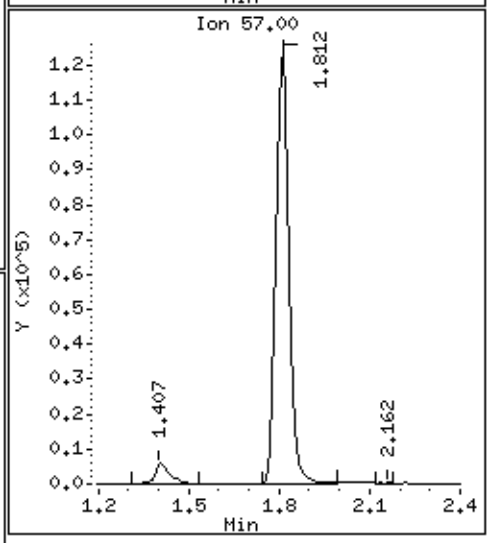
26 Isopentane

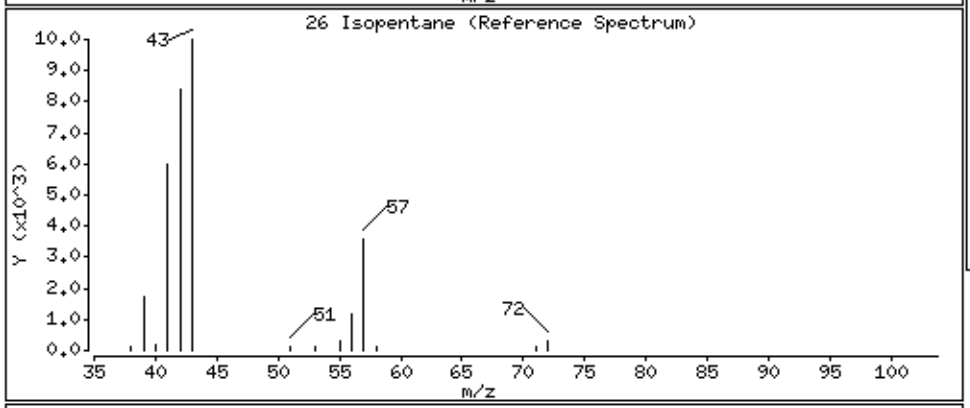
Concentration: 57.506 PPBV

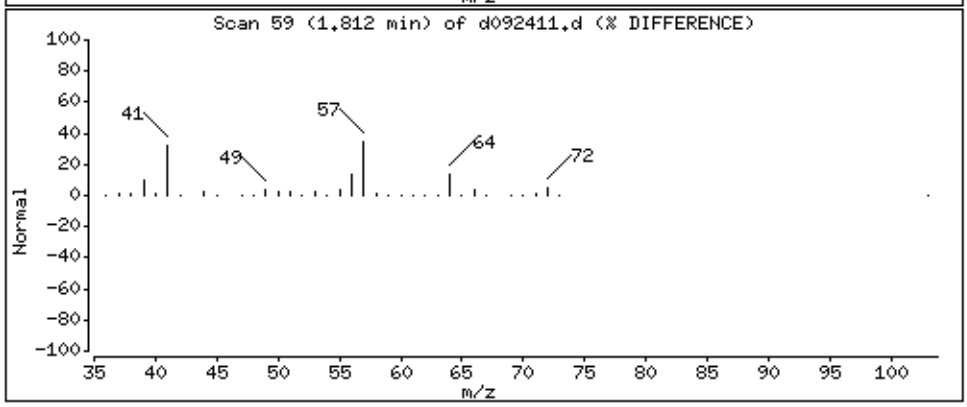












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

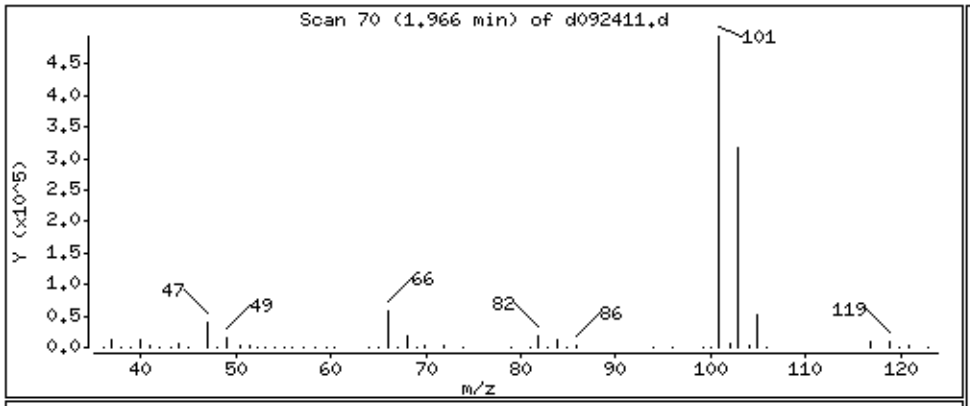
Operator: mtw

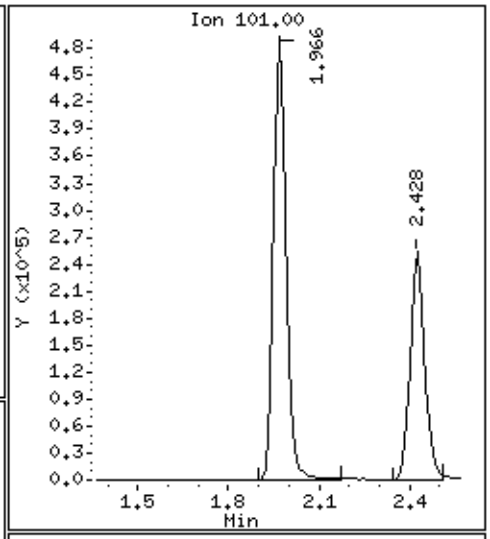
Column phase: RTx-624

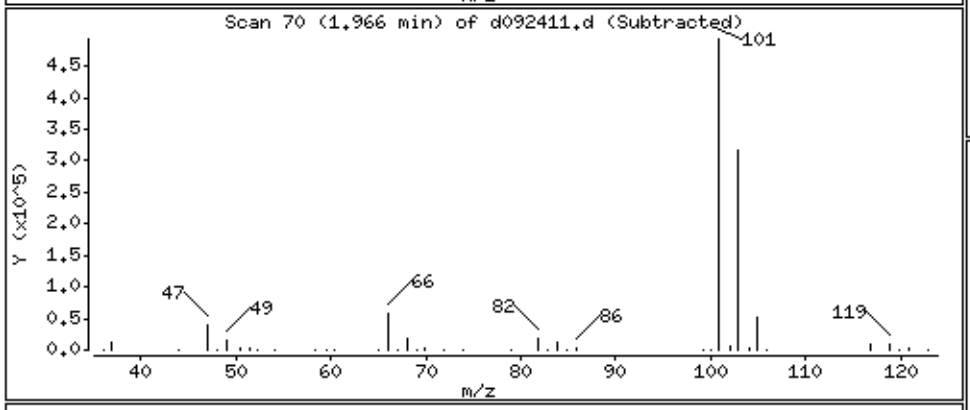
Column diameter: 0.53

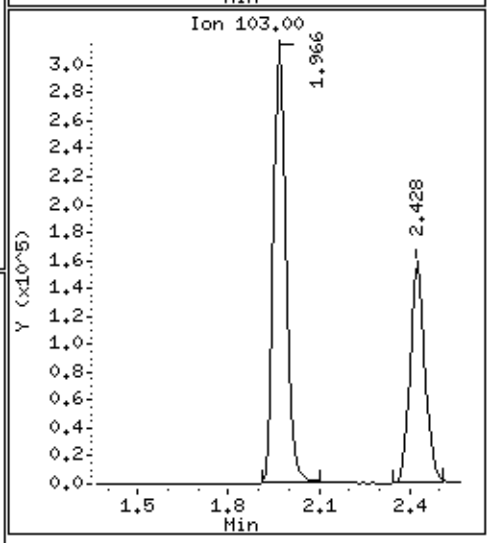
28 Trichlorofluoromethane/Fr11

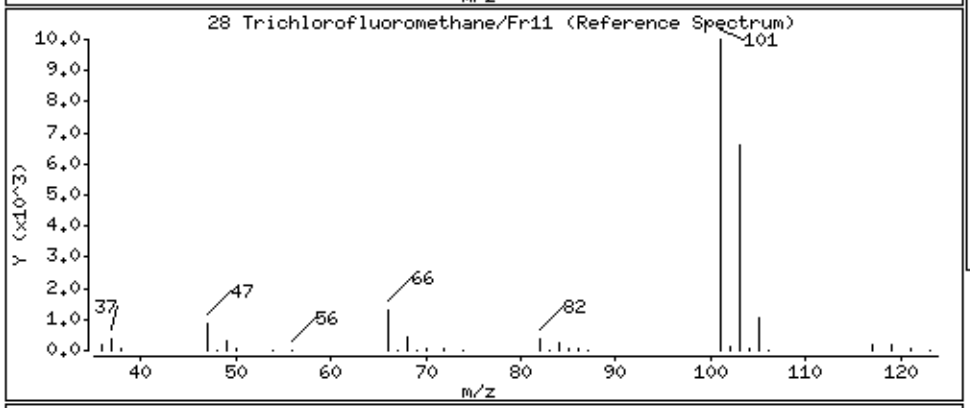
Concentration: 54.271 PPBV

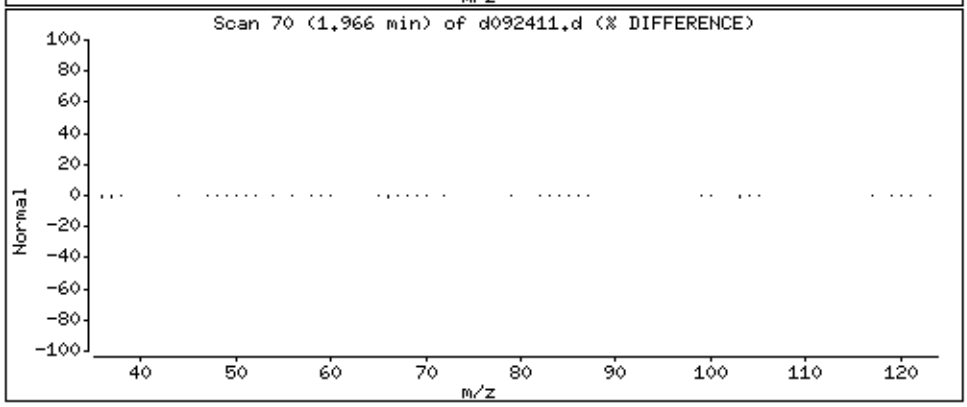












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

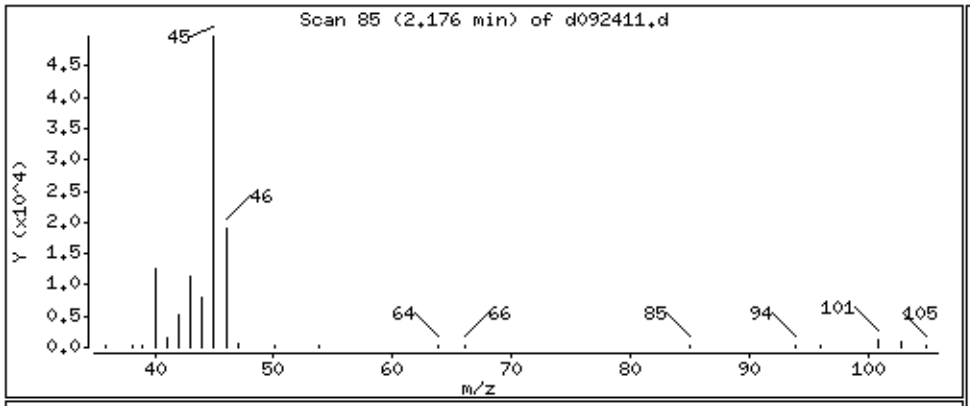
Operator: mtw

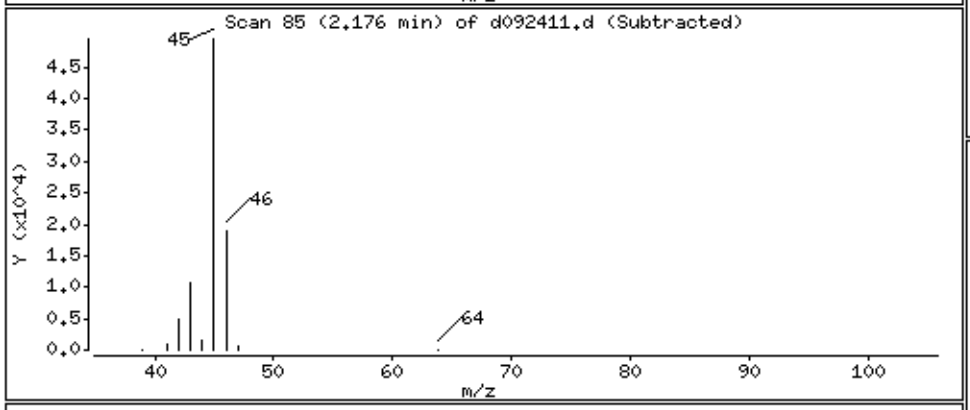
Column phase: RTx-624

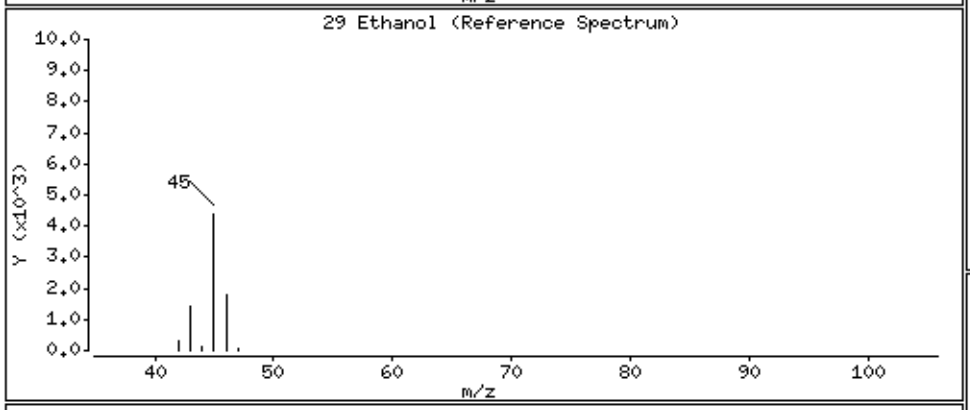
Column diameter: 0.53

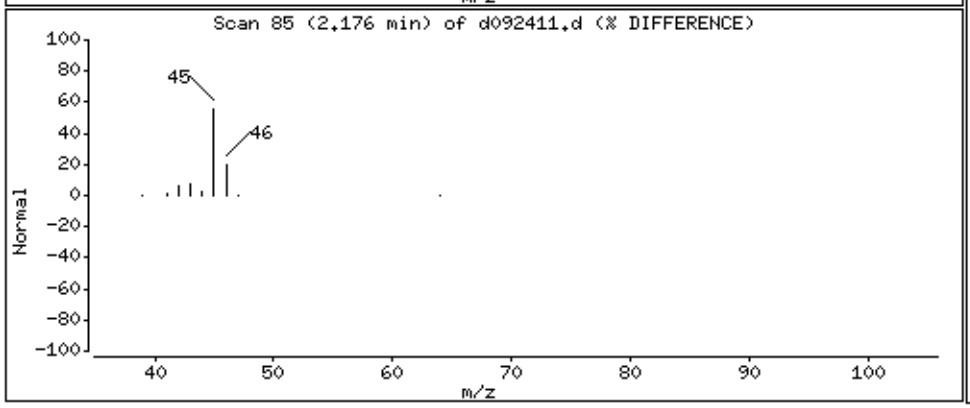
29 Ethanol

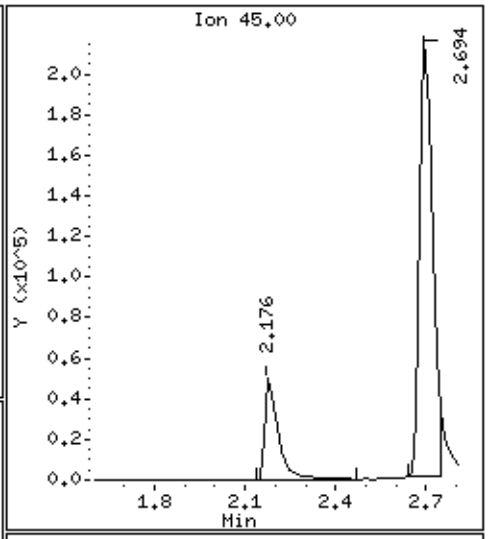
Concentration: 48.851 PPBV

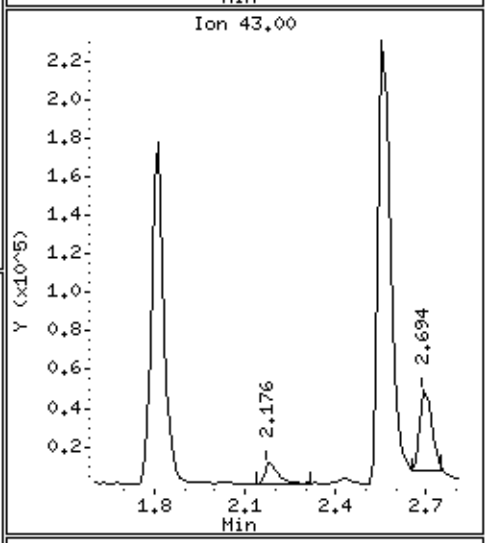


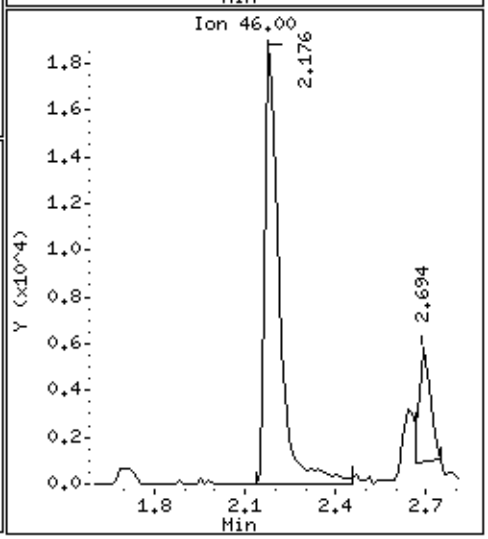












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

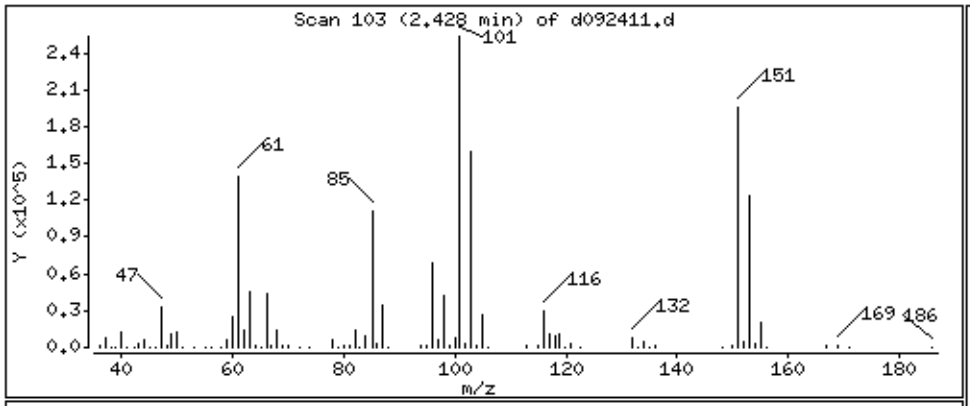
Operator: mtw

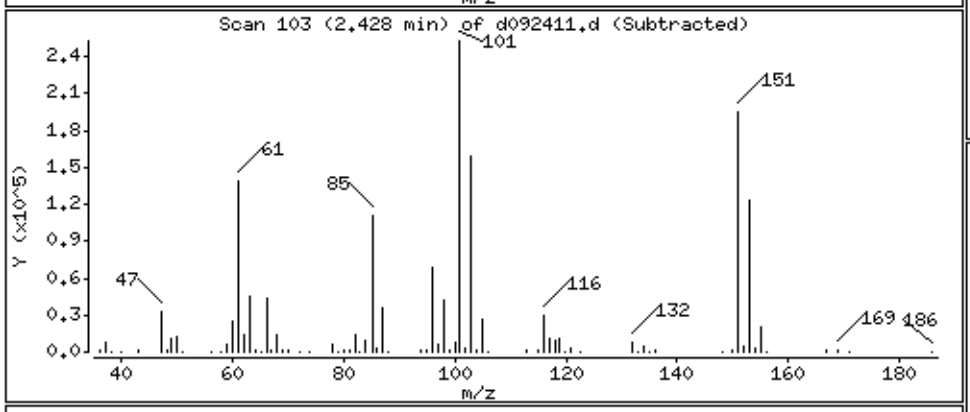
Column phase: RTx-624

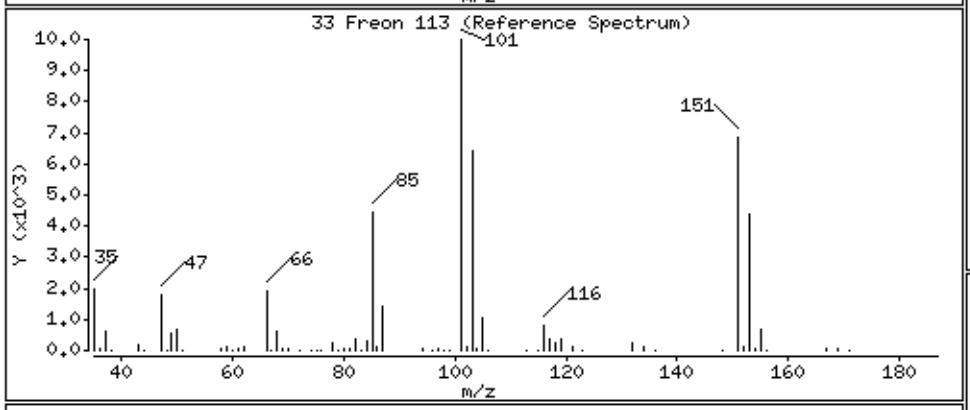
Column diameter: 0.53

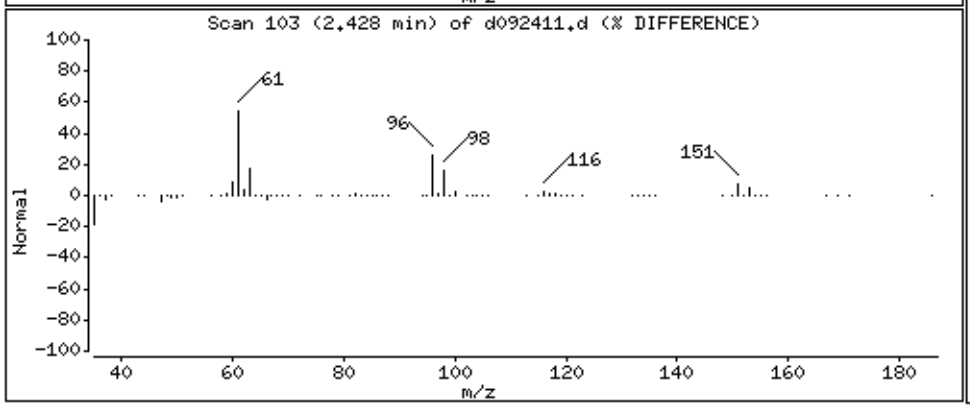
33 Freon 113

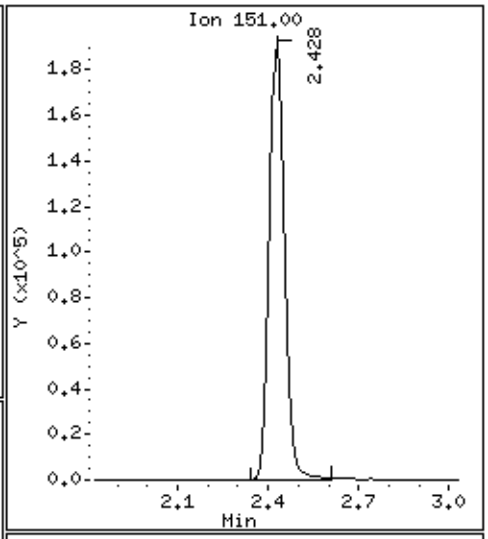
Concentration: 47.038 PPBV

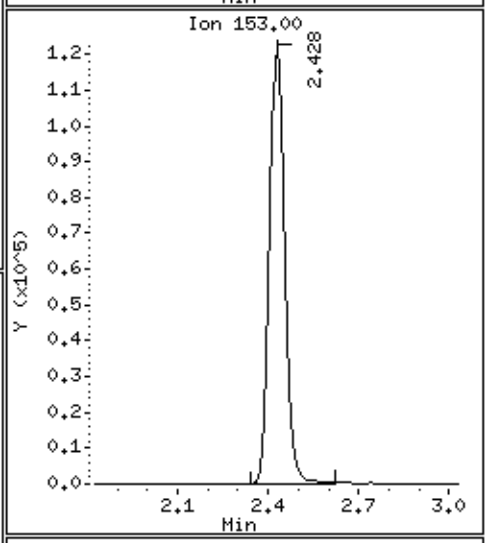


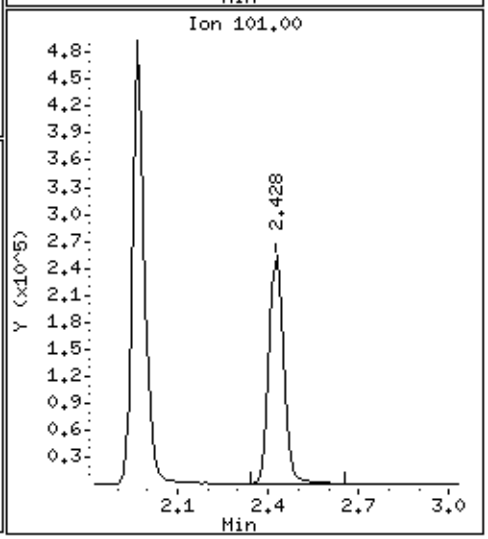












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

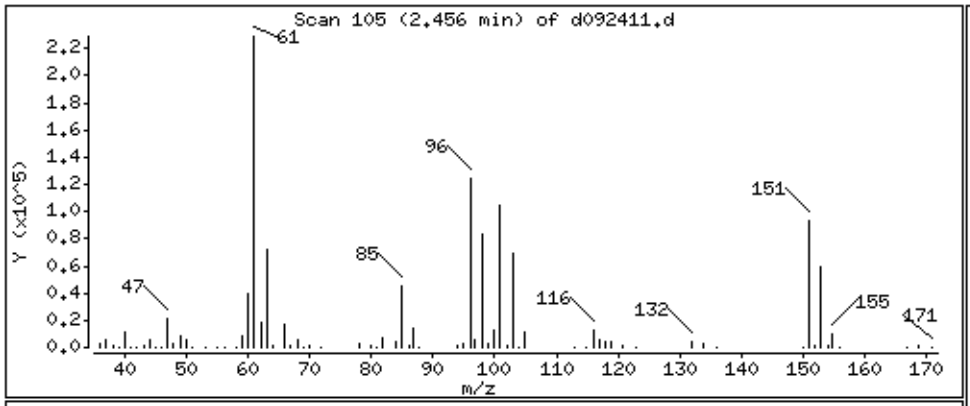
Operator: mtw

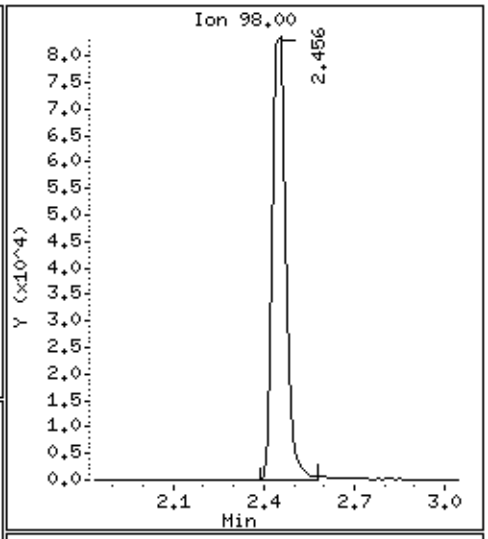
Column phase: RTx-624

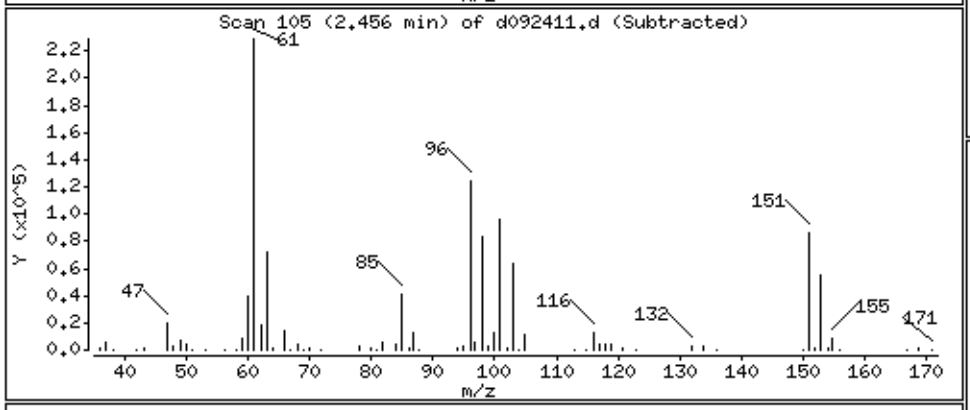
Column diameter: 0.53

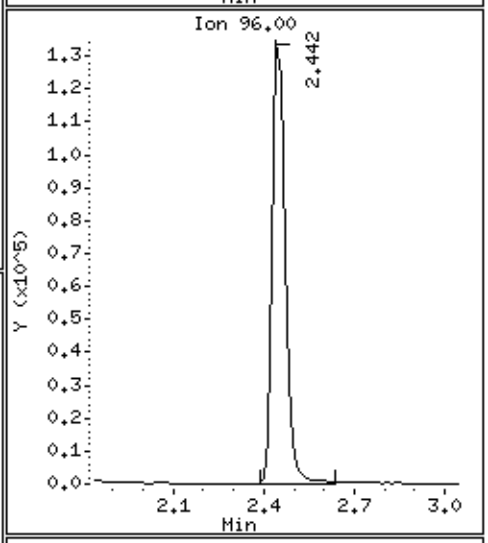
34 1,1-Dichloroethene

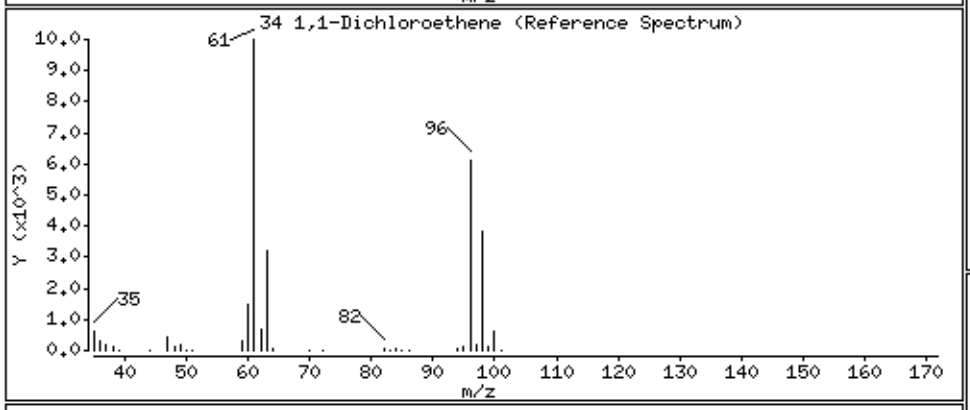
Concentration: 47.201 PPBV

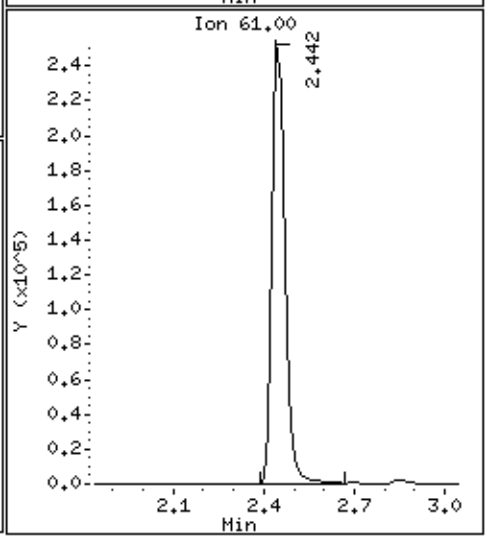


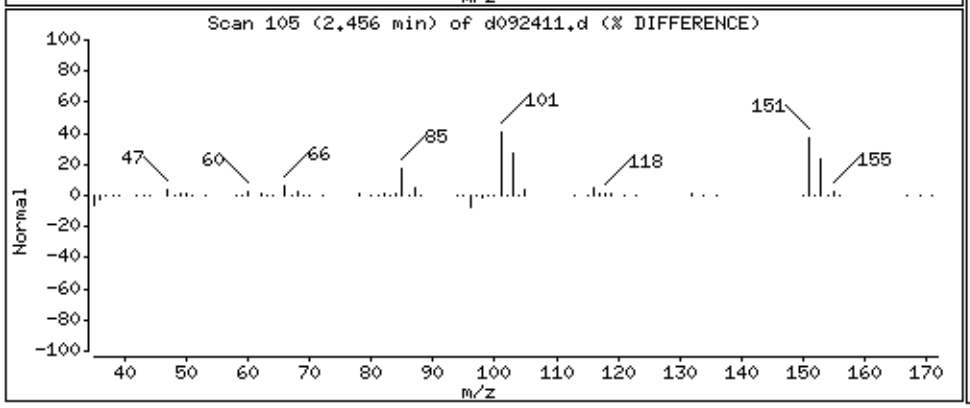












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

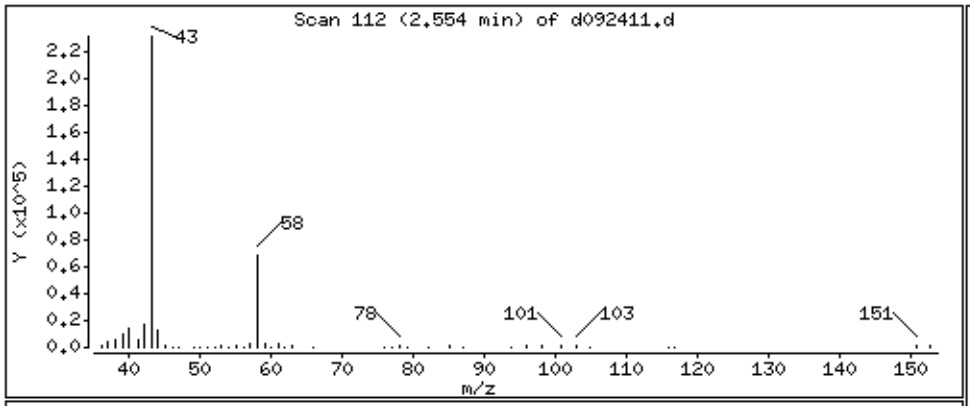
Operator: mtw

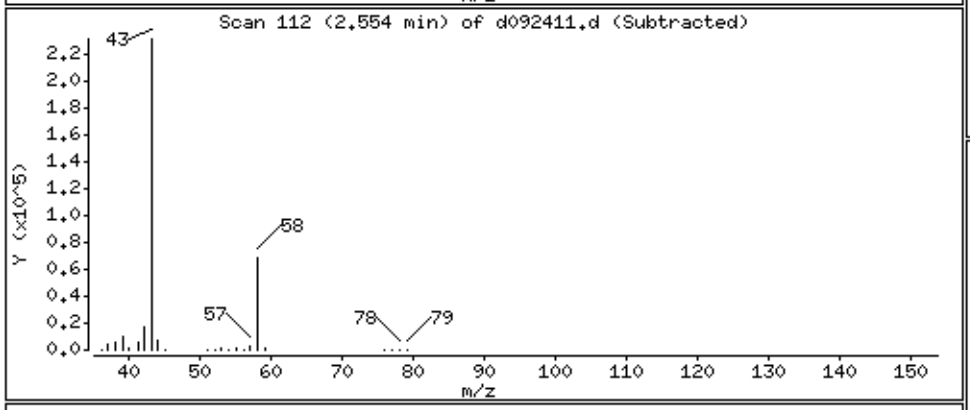
Column phase: RTx-624

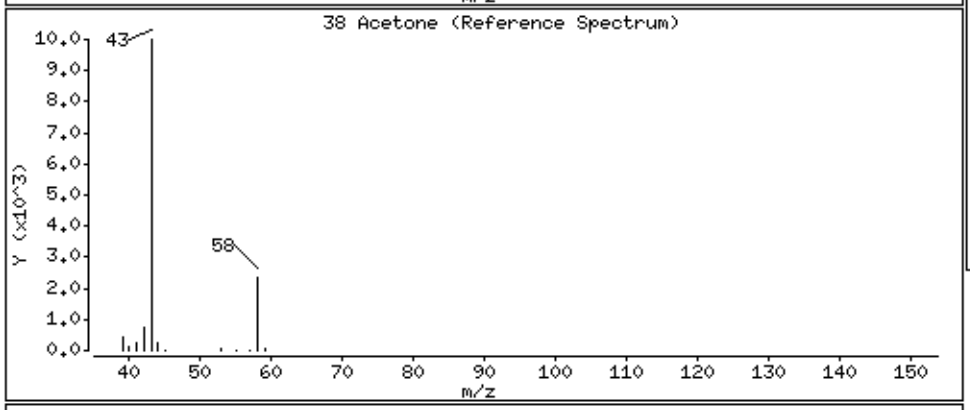
Column diameter: 0.53

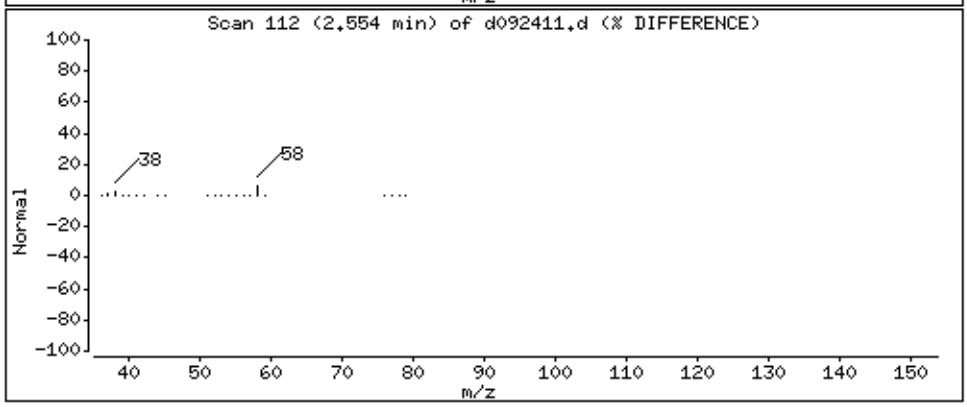
38 Acetone

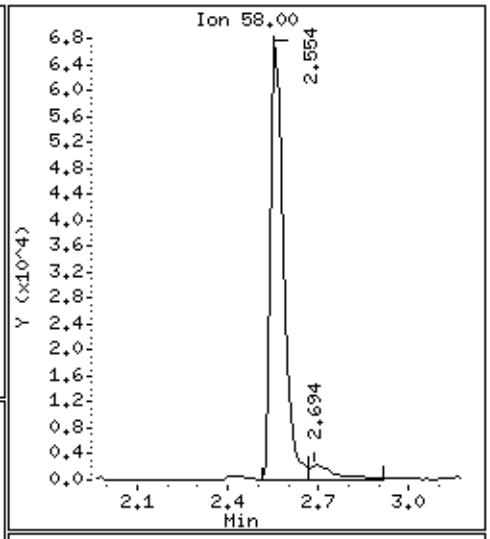
Concentration: 48.060 PPBV

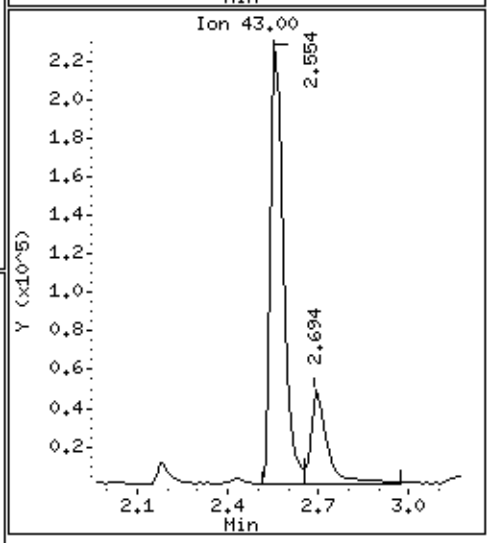












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

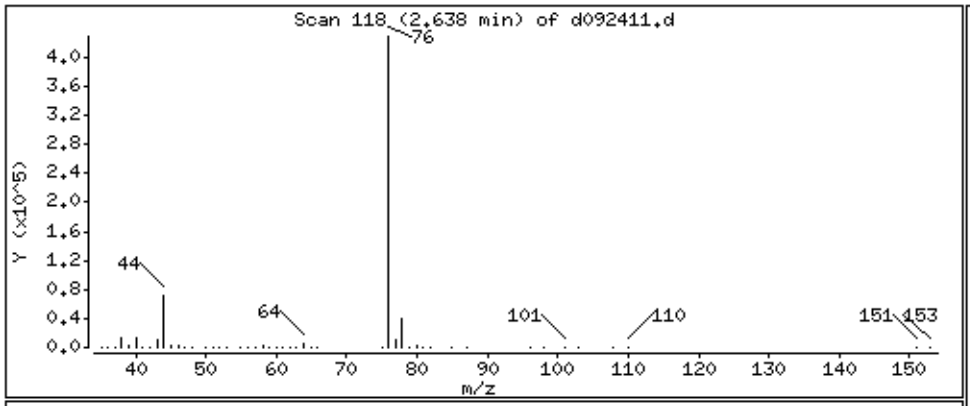
Operator: mtw

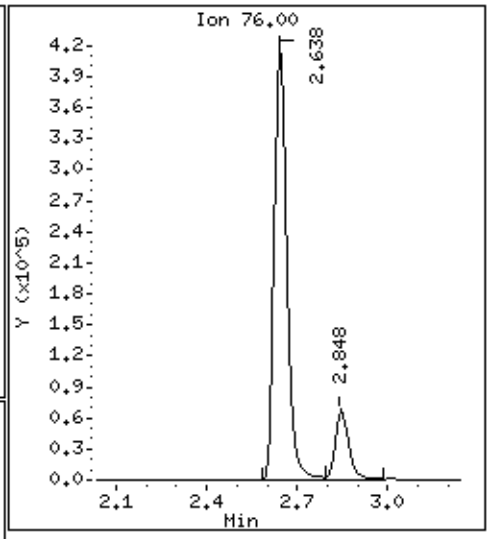
Column phase: RTx-624

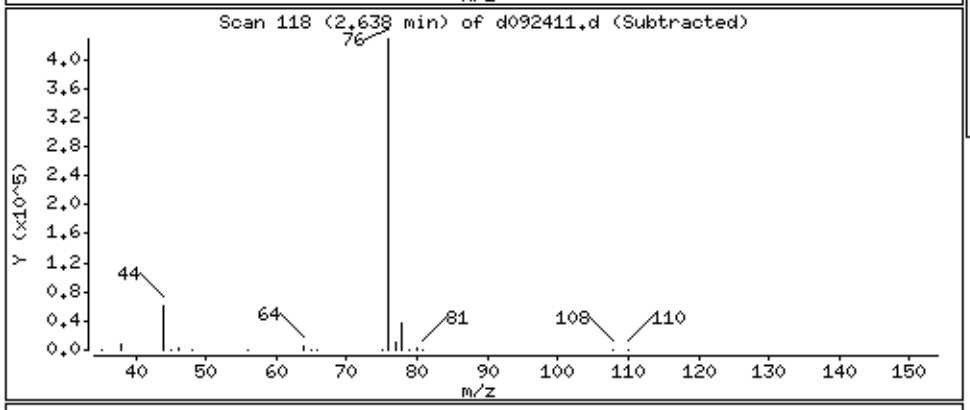
Column diameter: 0.53

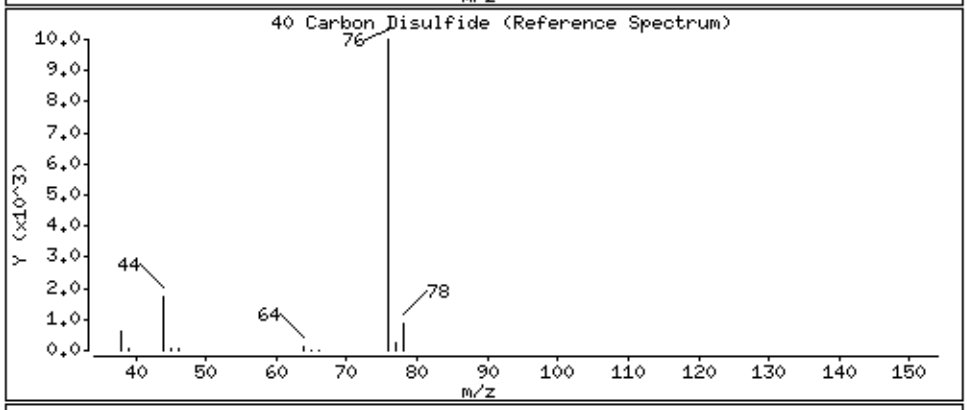
40 Carbon Disulfide

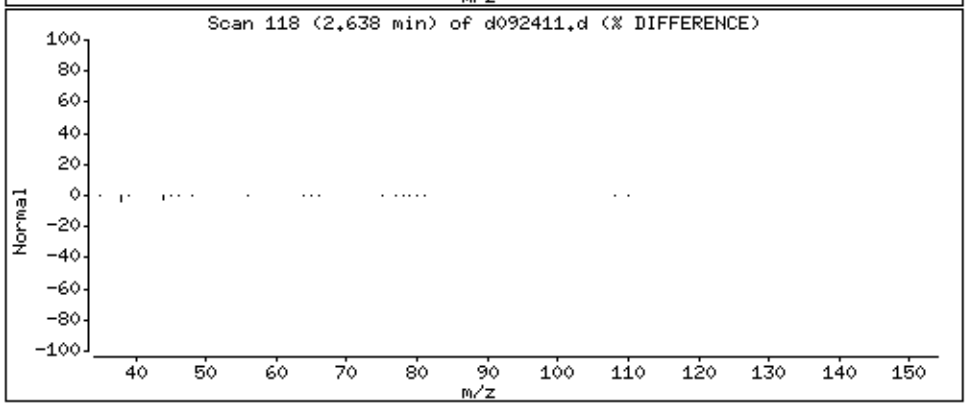
Concentration: 52.312 PPBV











Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

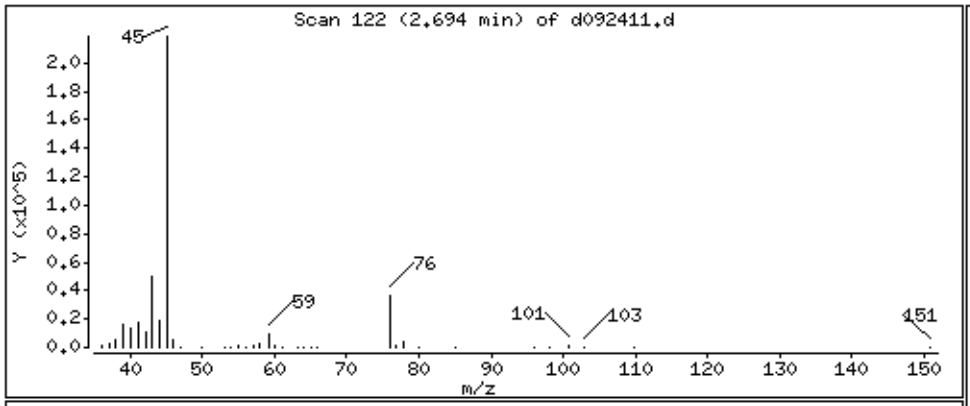
Operator: mtw

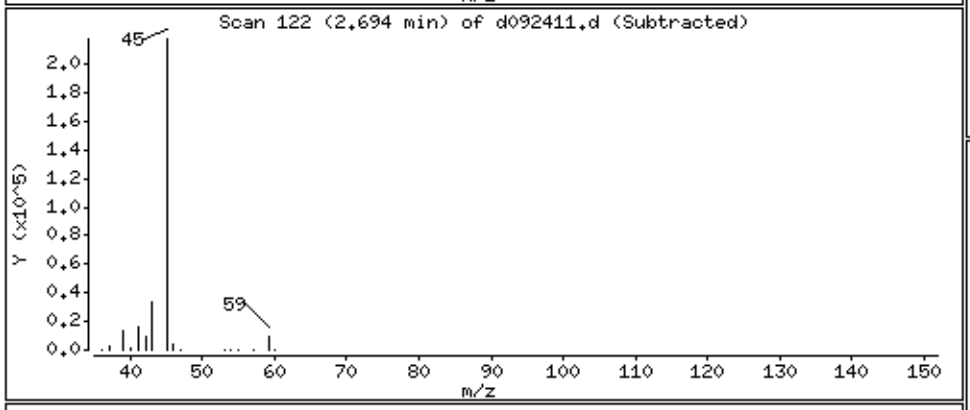
Column phase: RTx-624

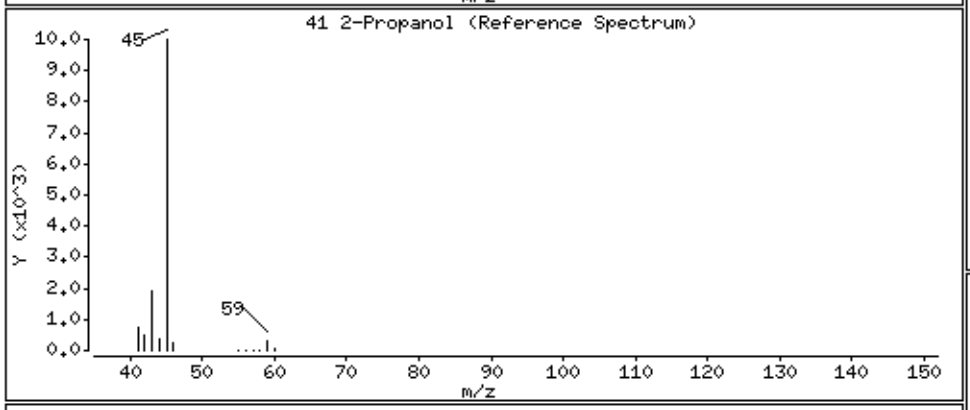
Column diameter: 0.53

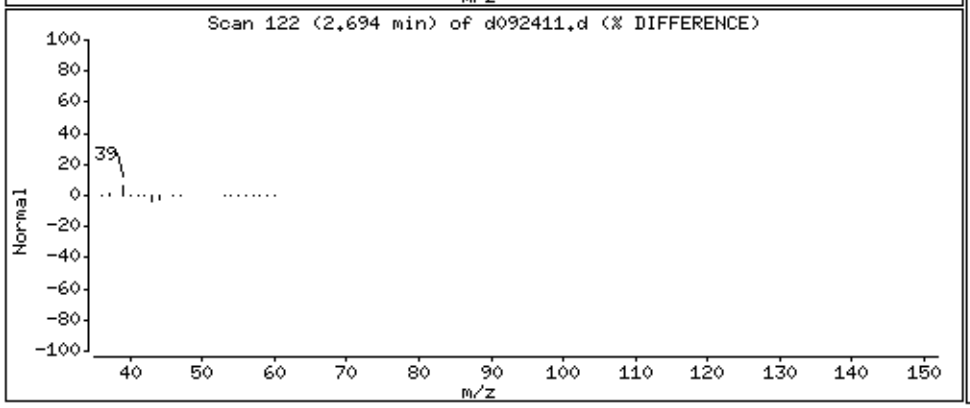
41 2-Propanol

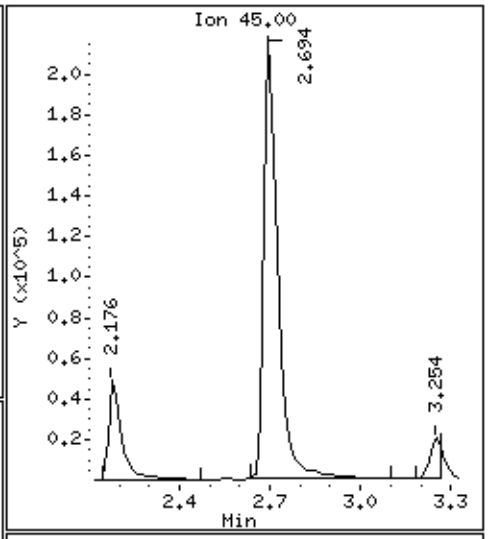
Concentration: 48.907 PPBV

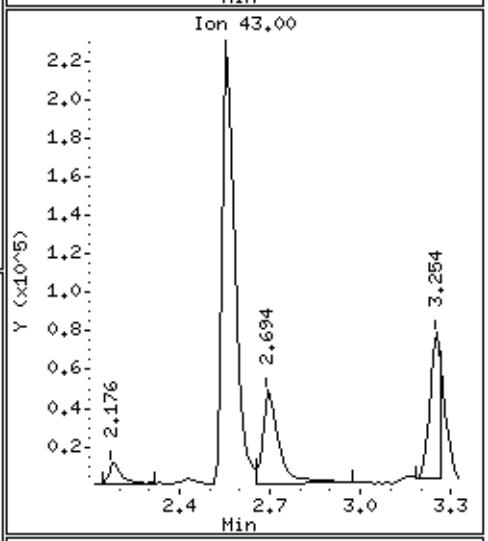


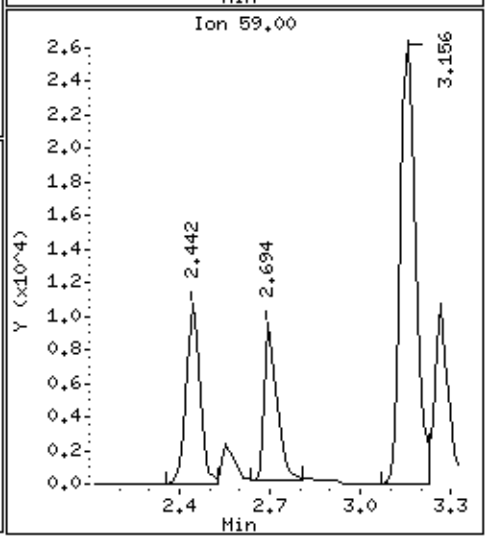












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

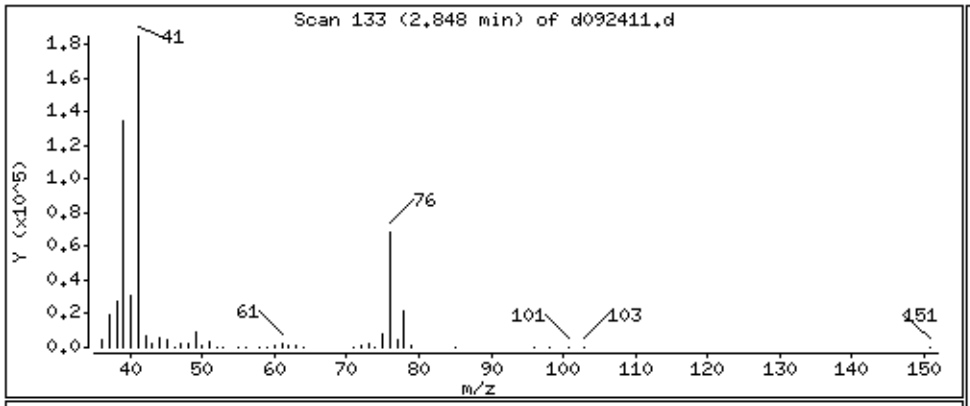
Operator: mtw

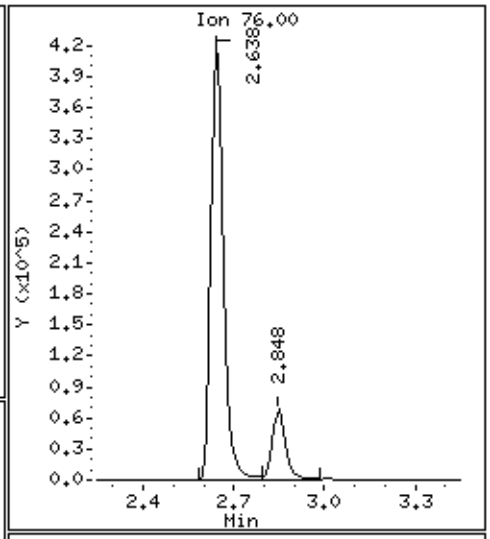
Column phase: RTx-624

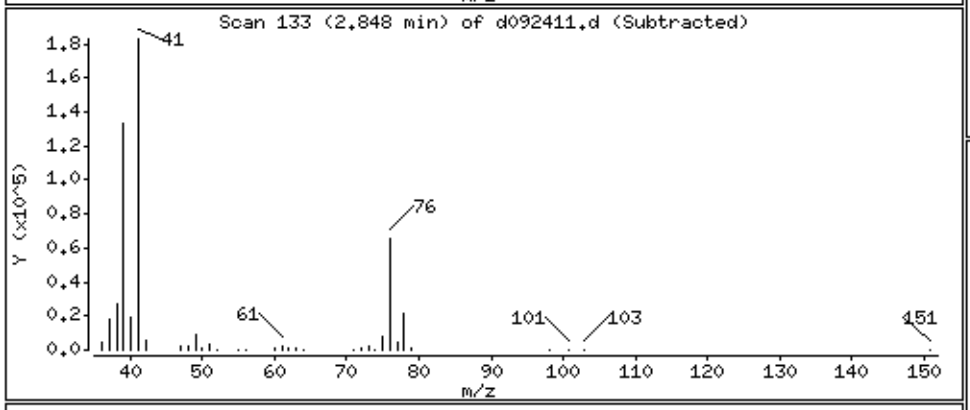
Column diameter: 0.53

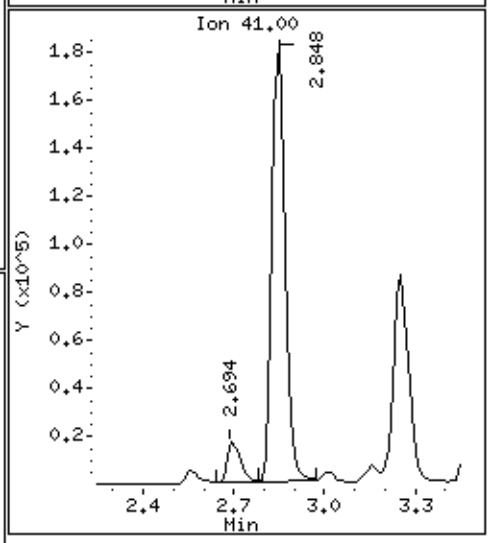
44 3-Chloropropene

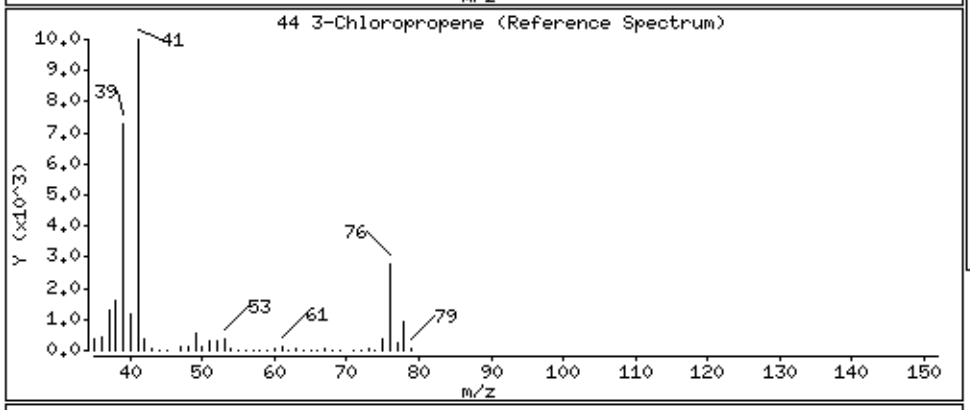
Concentration: 52.305 PPBV

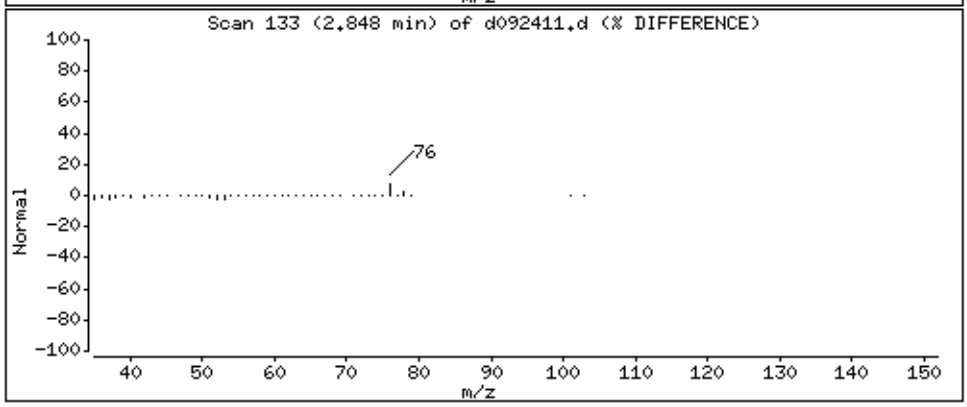












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

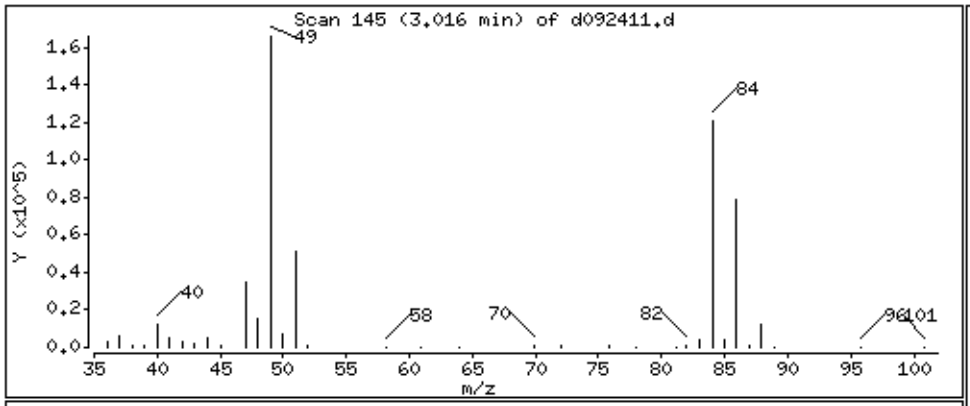
Operator: mtw

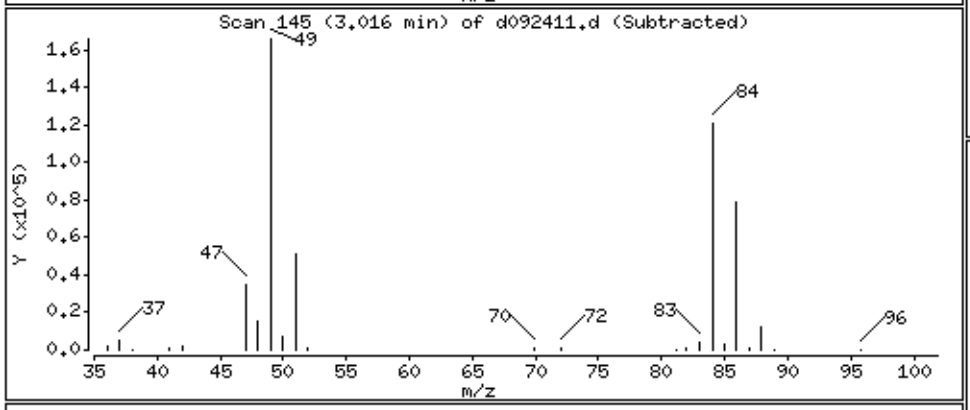
Column phase: RTx-624

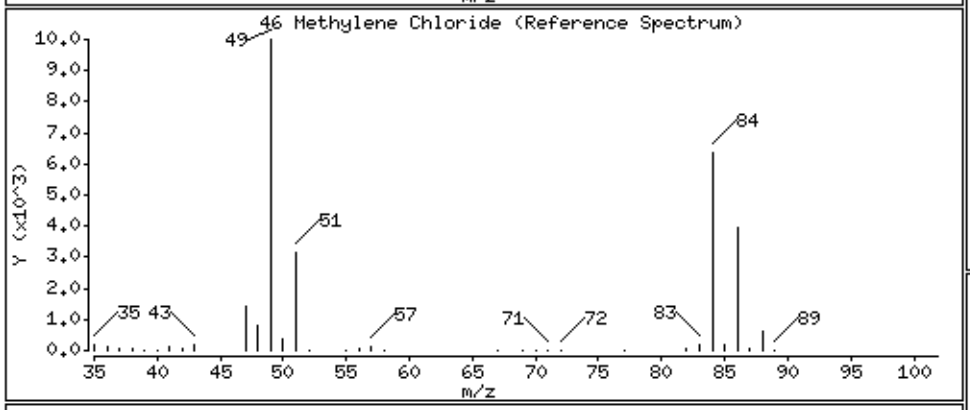
Column diameter: 0.53

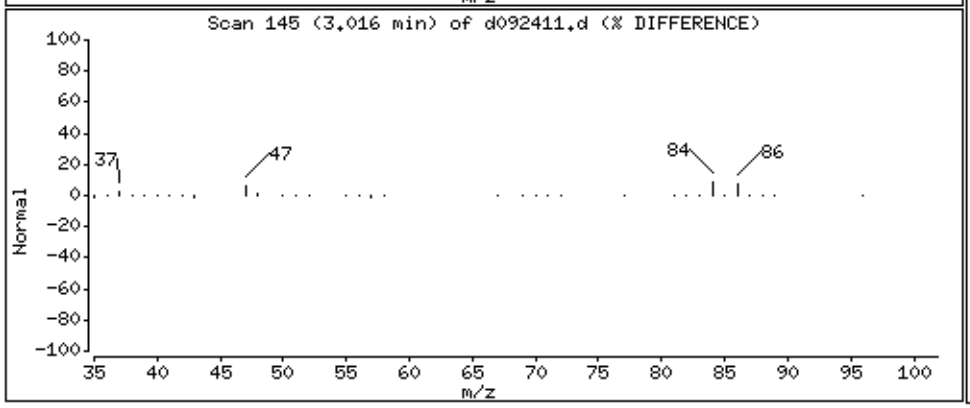
46 Methylene Chloride

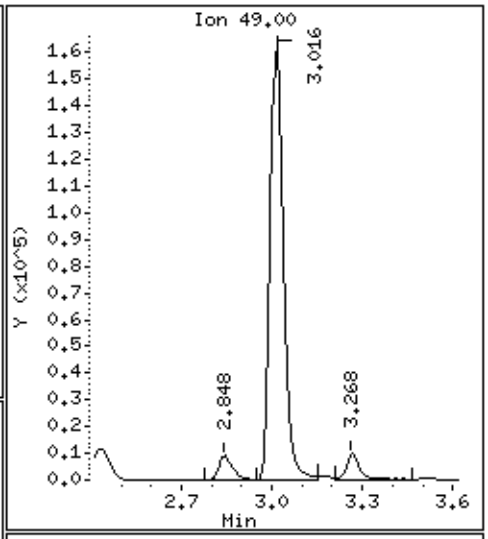
Concentration: 46.726 PPBV

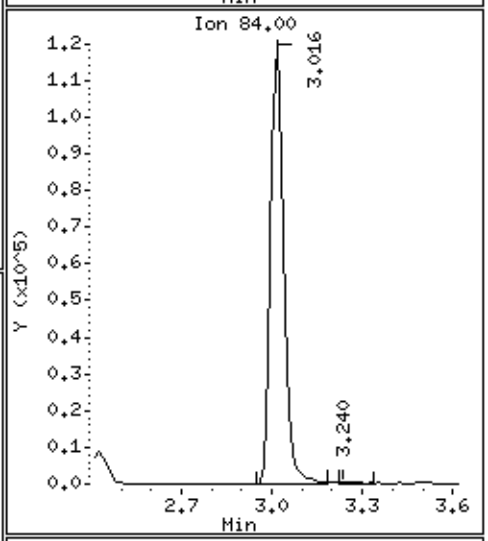


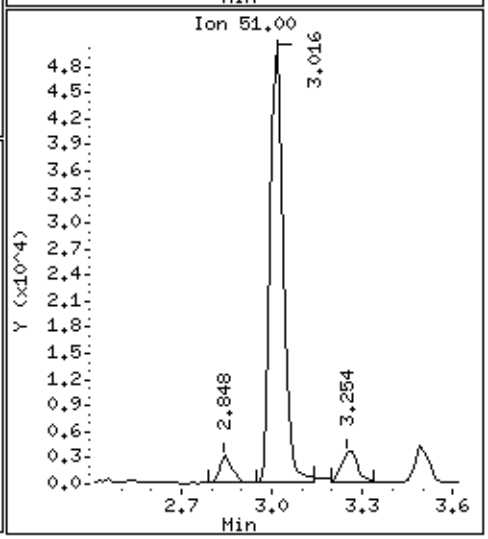












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

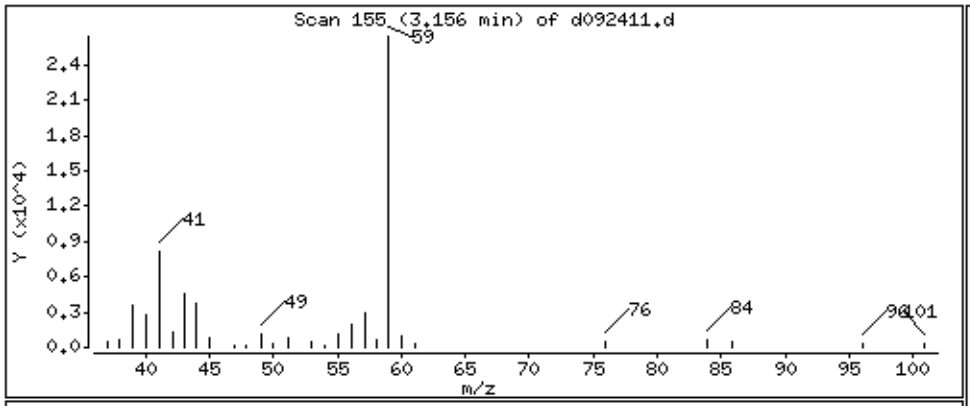
Operator: mtw

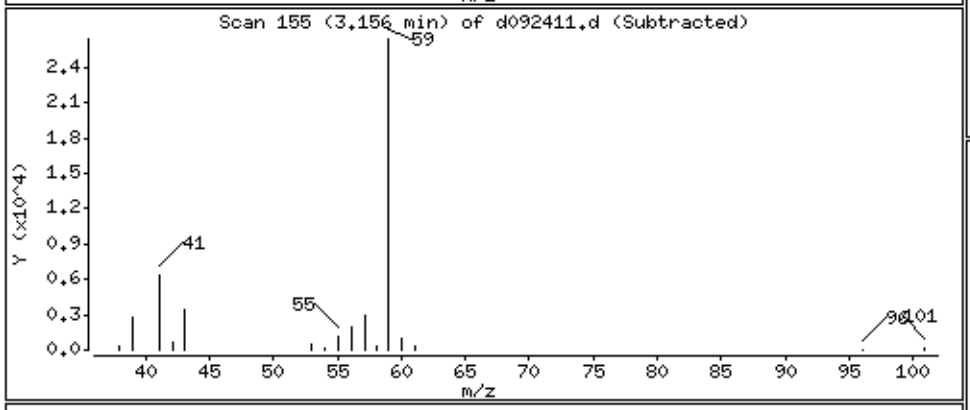
Column phase: RTx-624

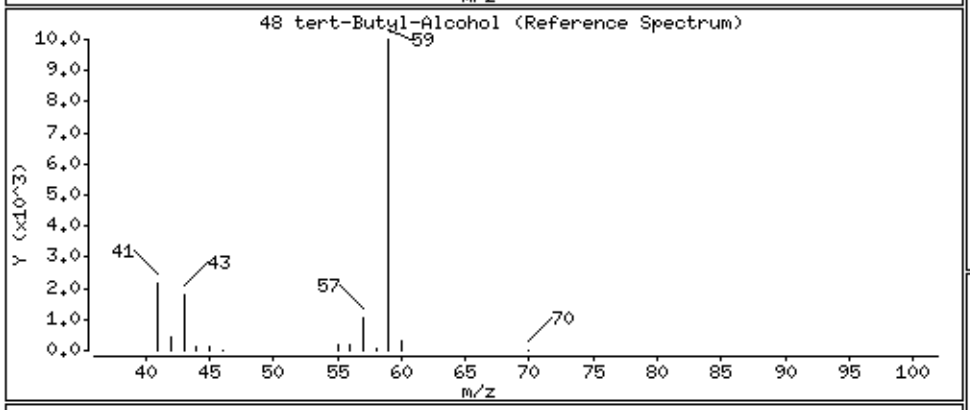
Column diameter: 0.53

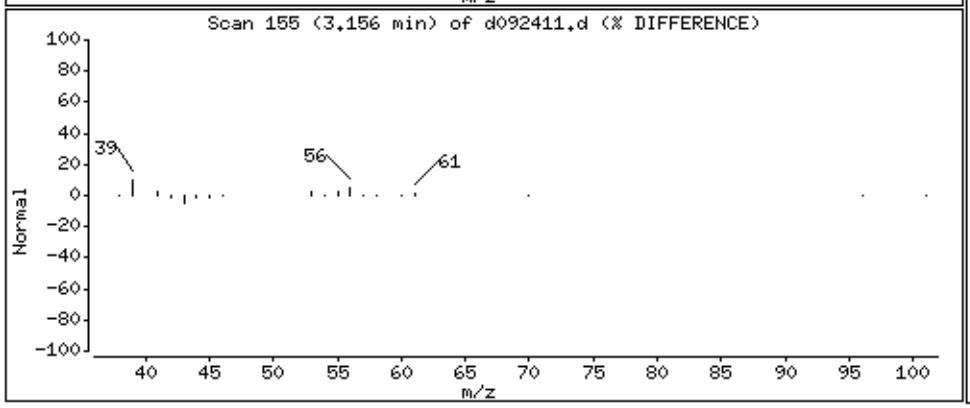
48 tert-Butyl-Alcohol

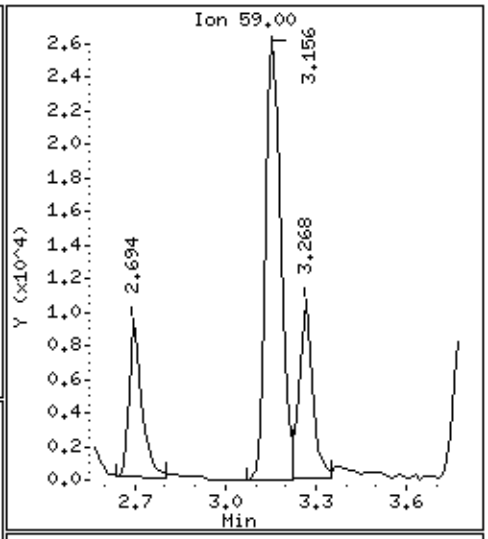
Concentration: 5.012 PPBV

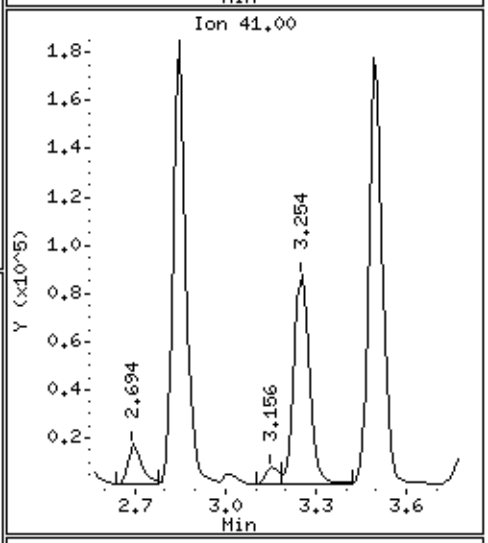


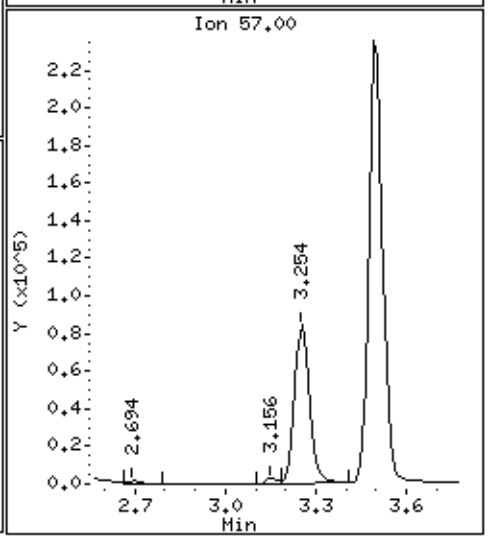












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

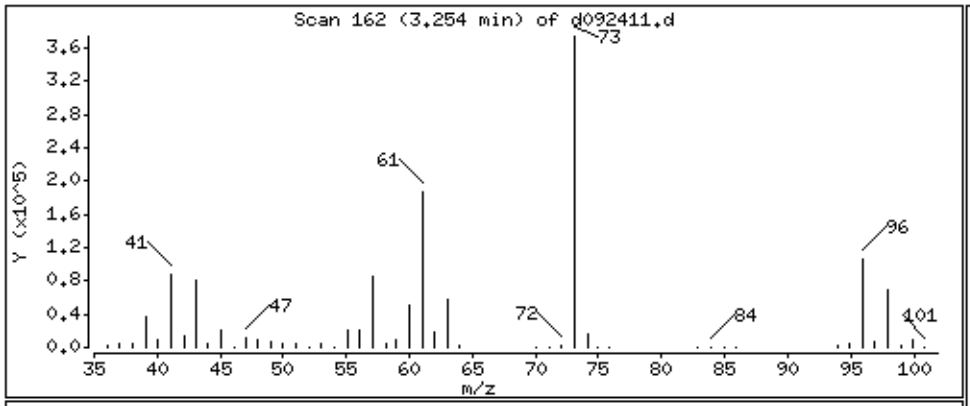
Operator: mtw

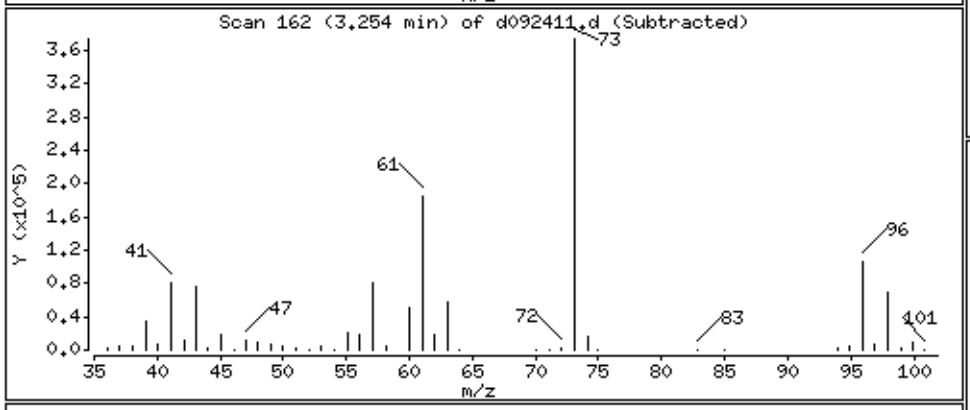
Column phase: RTx-624

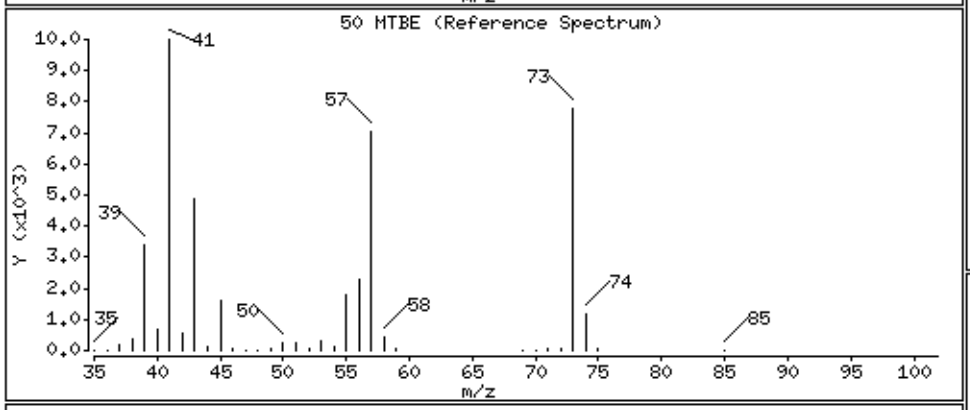
Column diameter: 0.53

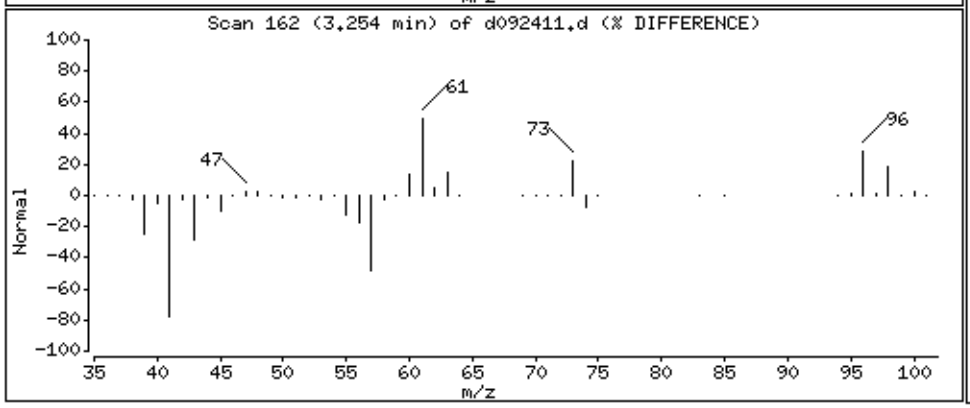
50 MTBE

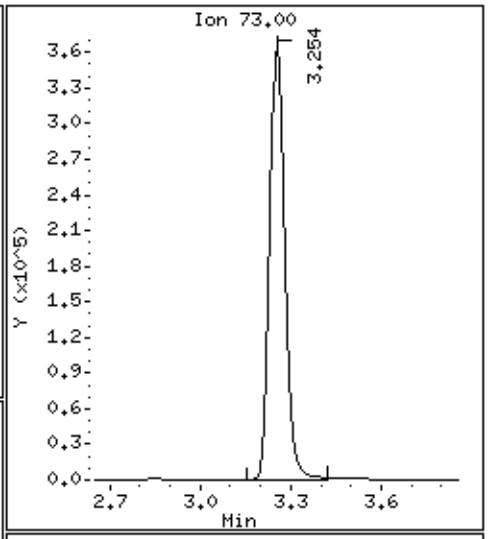
Concentration: 51.038 PPBV

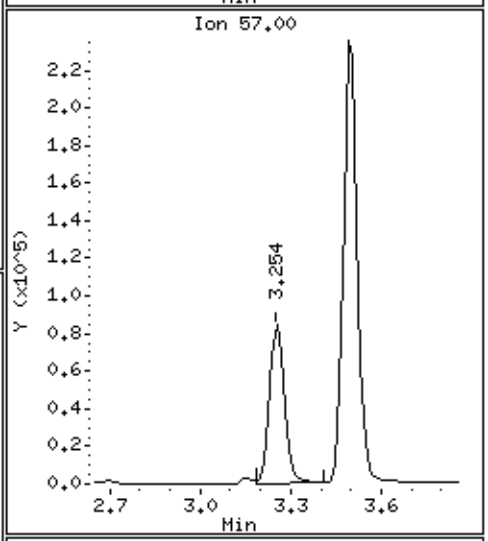


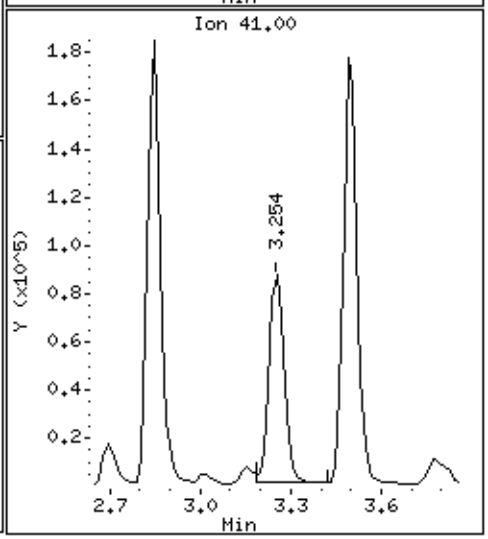












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

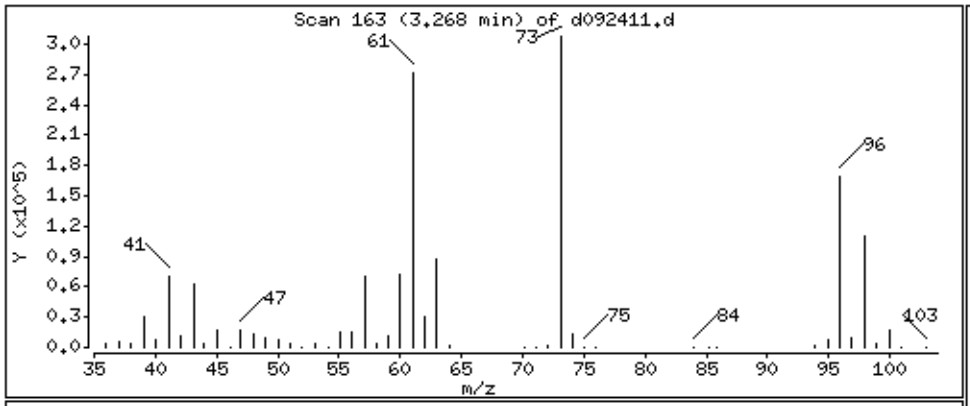
Operator: mtw

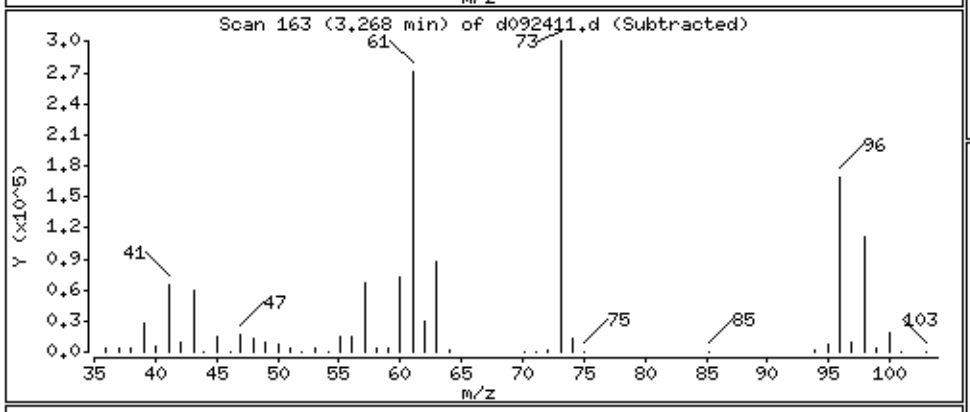
Column phase: RTx-624

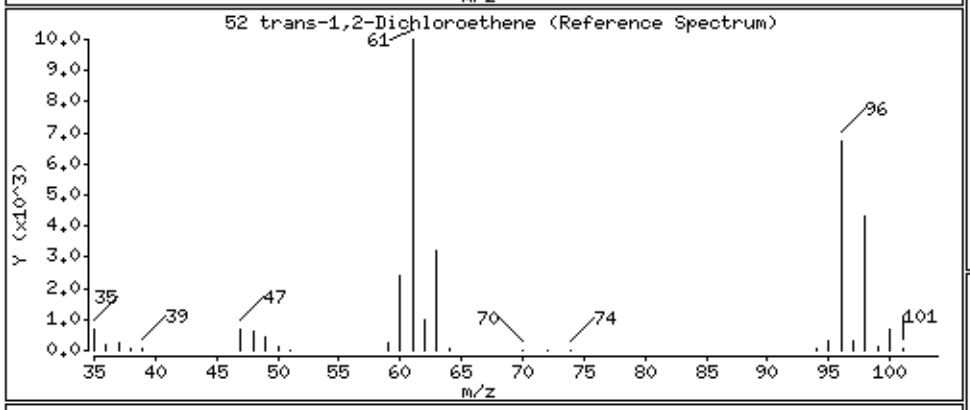
Column diameter: 0.53

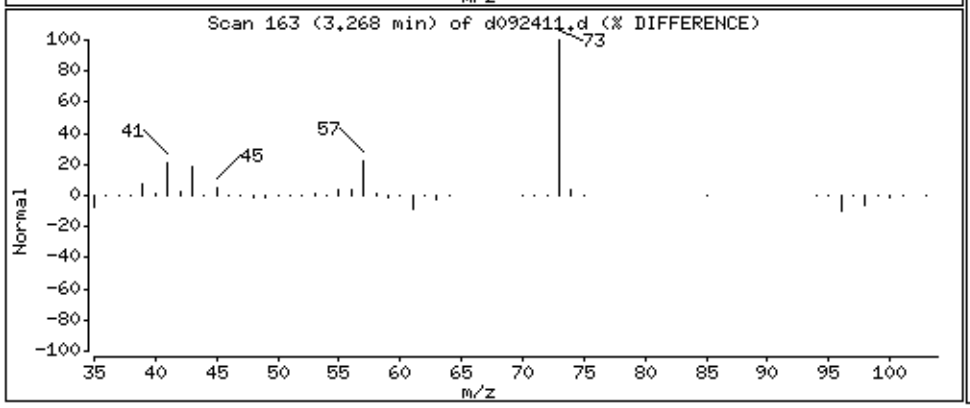
52 trans-1,2-Dichloroethene

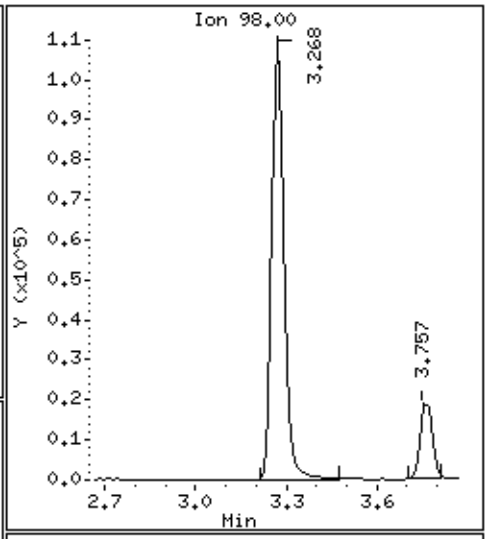
Concentration: 52.990 PPBV

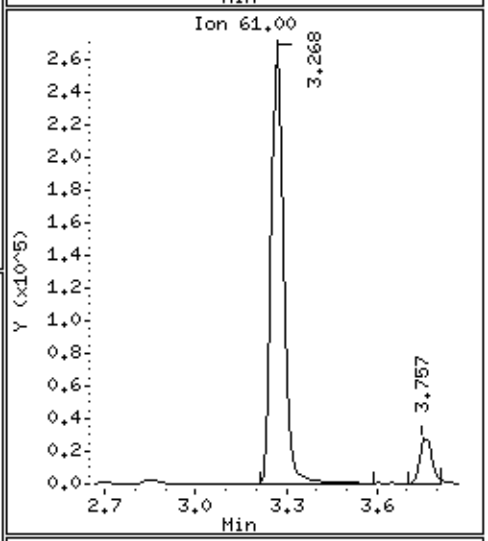


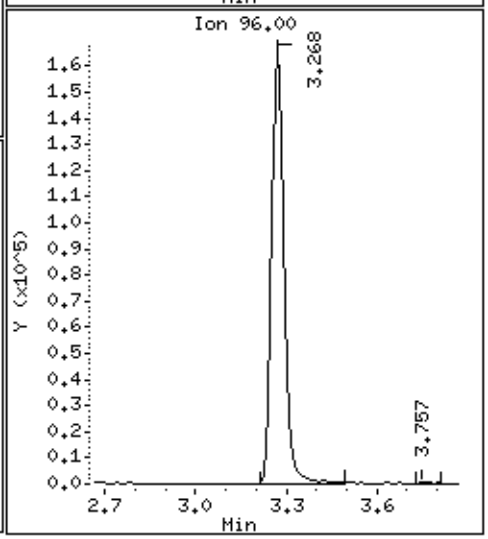












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

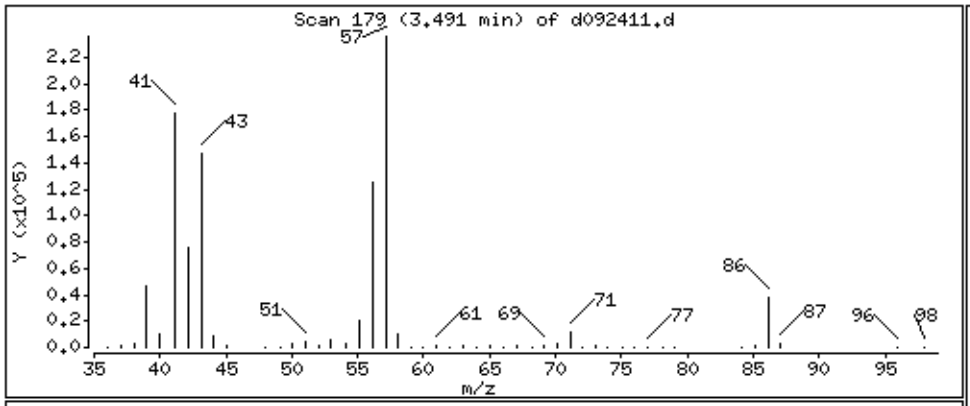
Operator: mtw

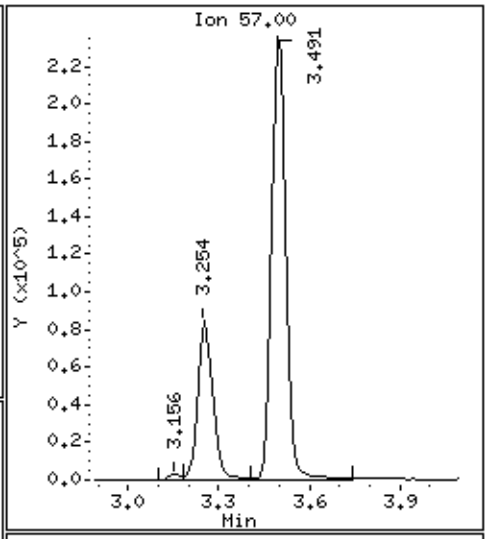
Column phase: RTx-624

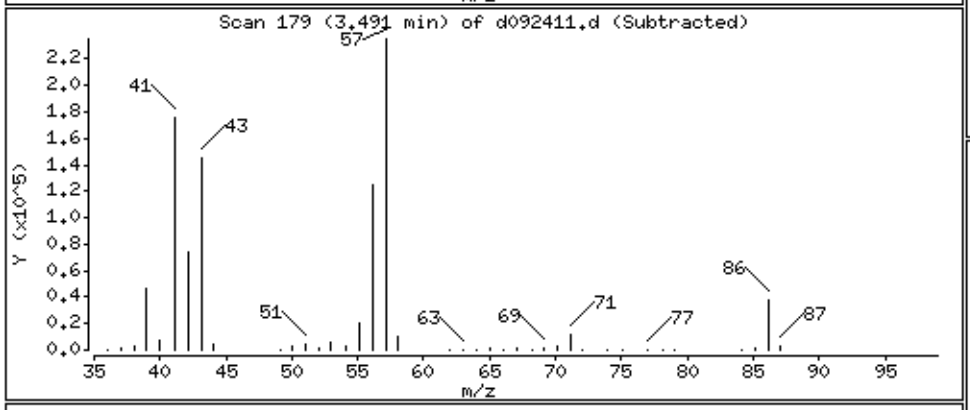
Column diameter: 0.53

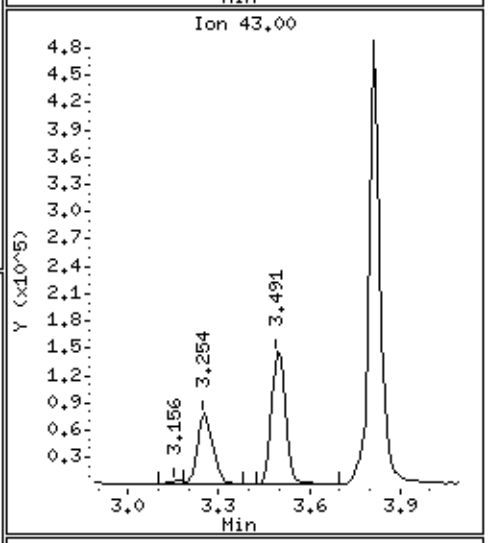
58 Hexane

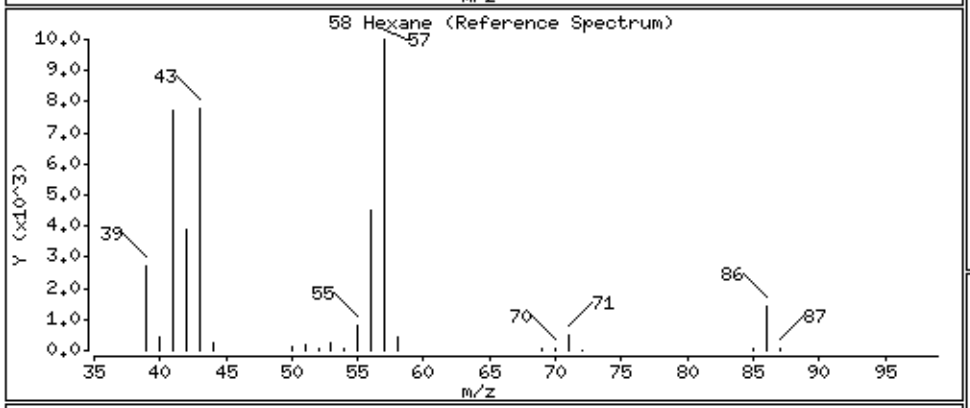
Concentration: 49.636 PPBV

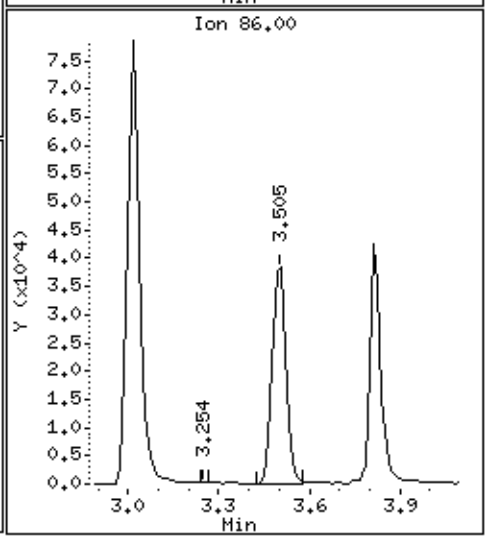


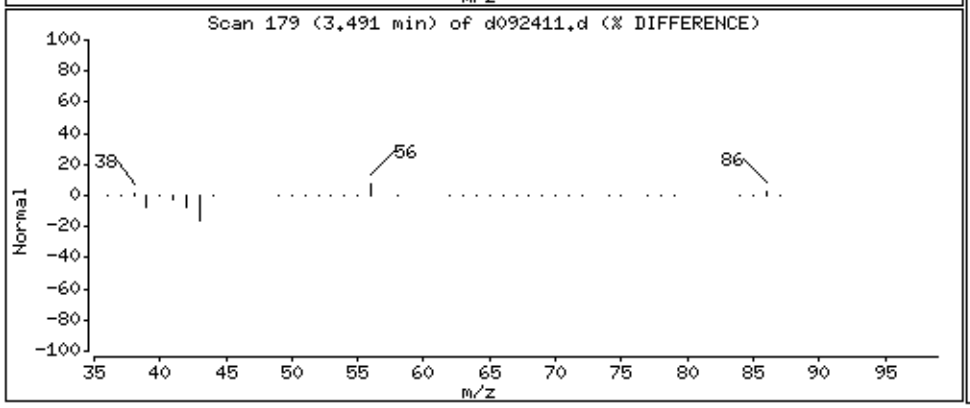












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

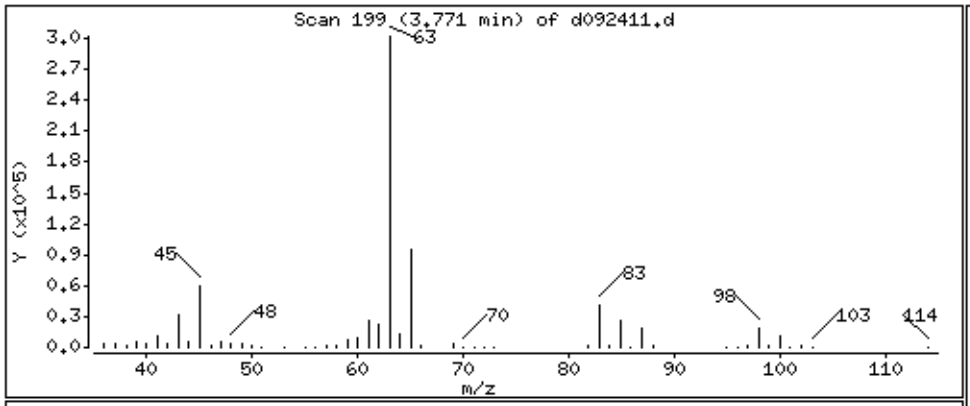
Operator: mtw

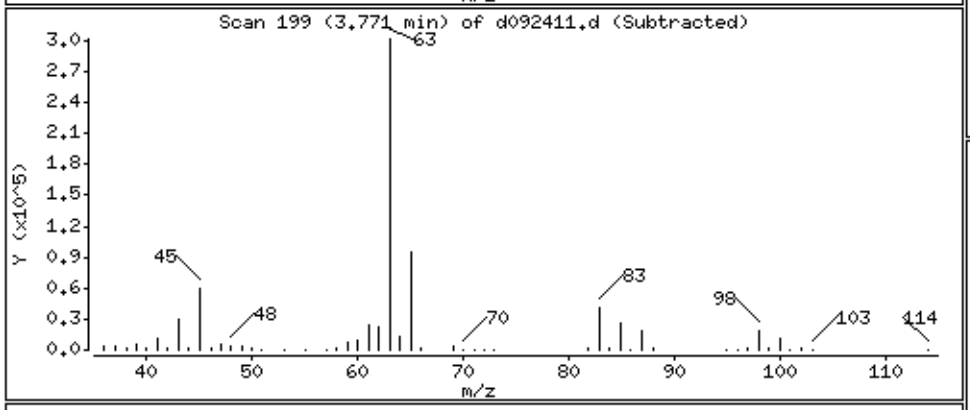
Column phase: RTx-624

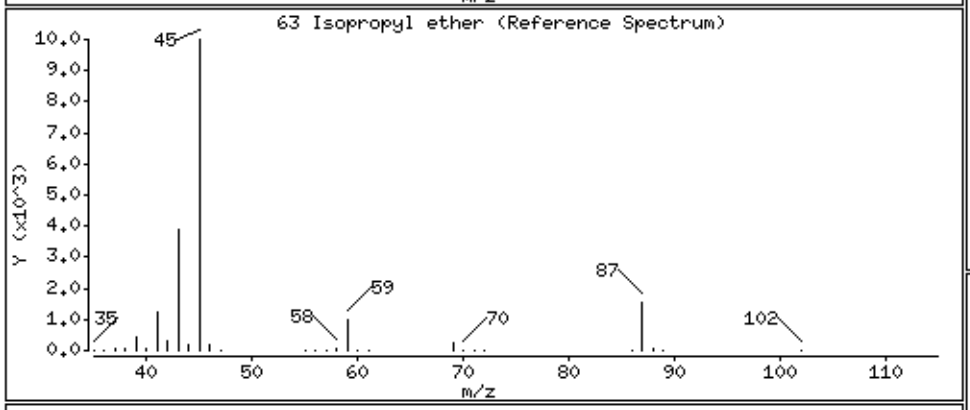
Column diameter: 0.53

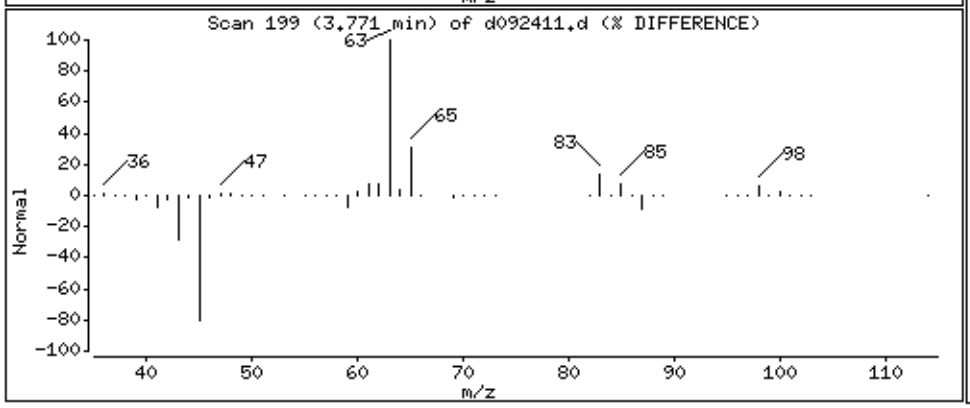
63 Isopropyl ether

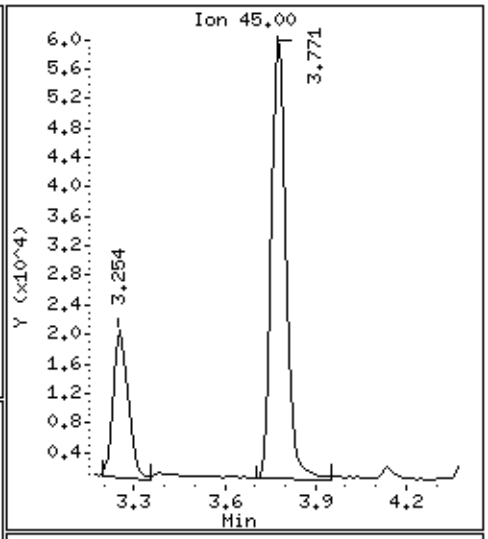
Concentration: 5.202 PPBV

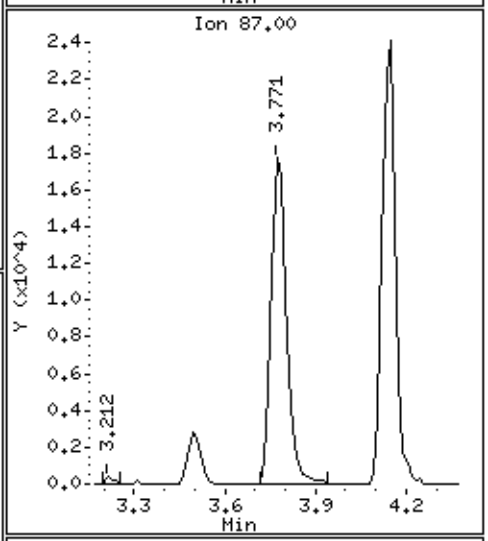


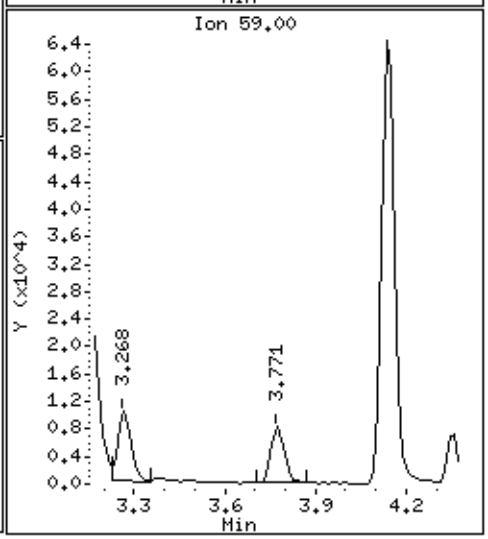












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

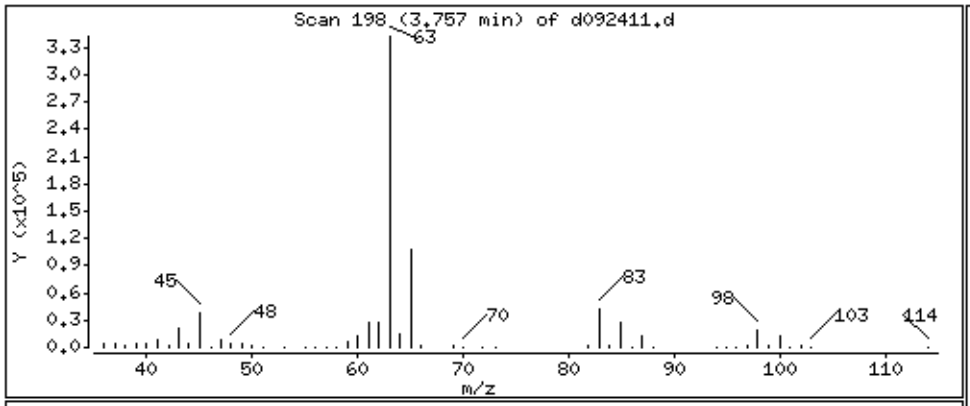
Operator: mtw

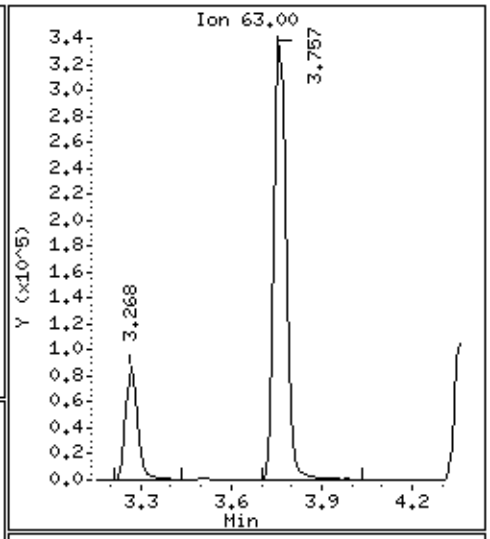
Column phase: RTx-624

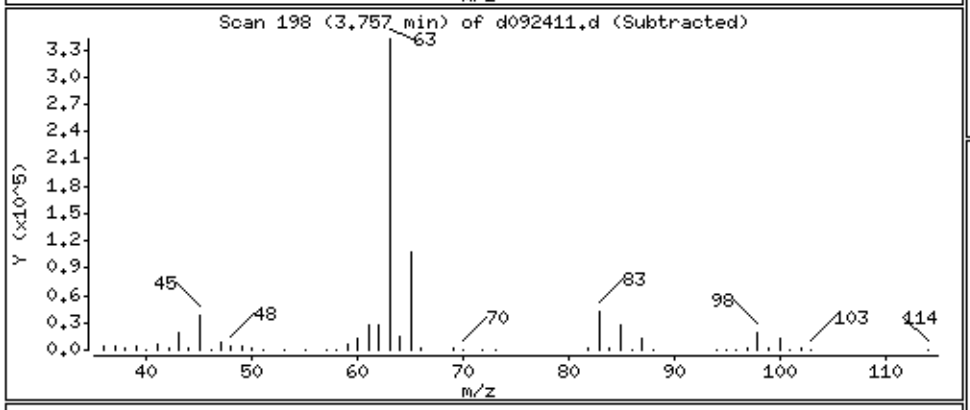
Column diameter: 0.53

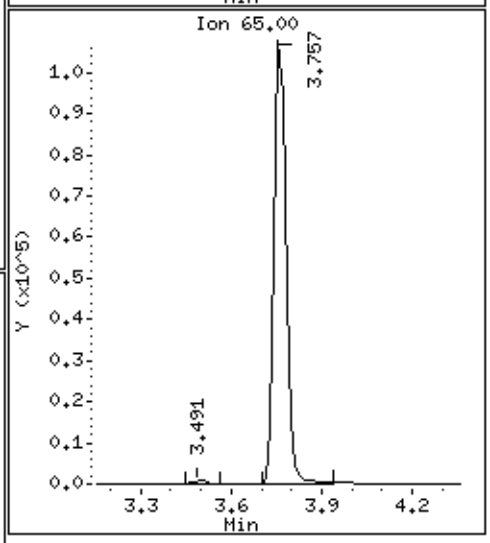
64 1,1-Dichloroethane

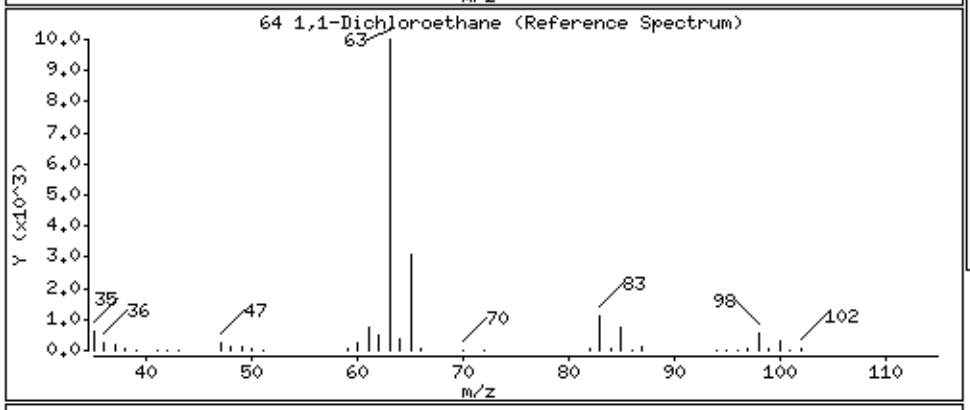
Concentration: 49.781 PPBV

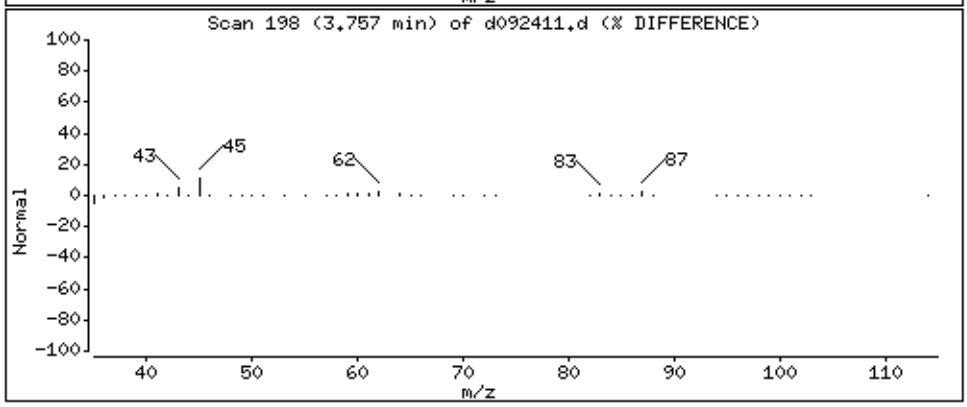












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

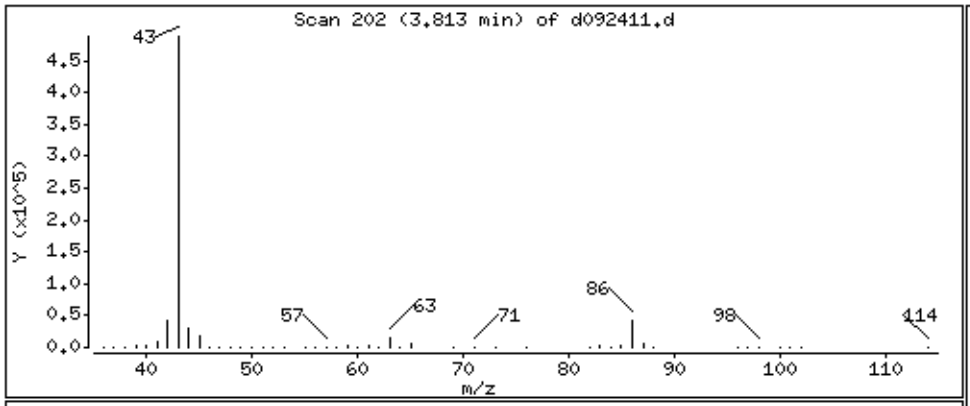
Operator: mtw

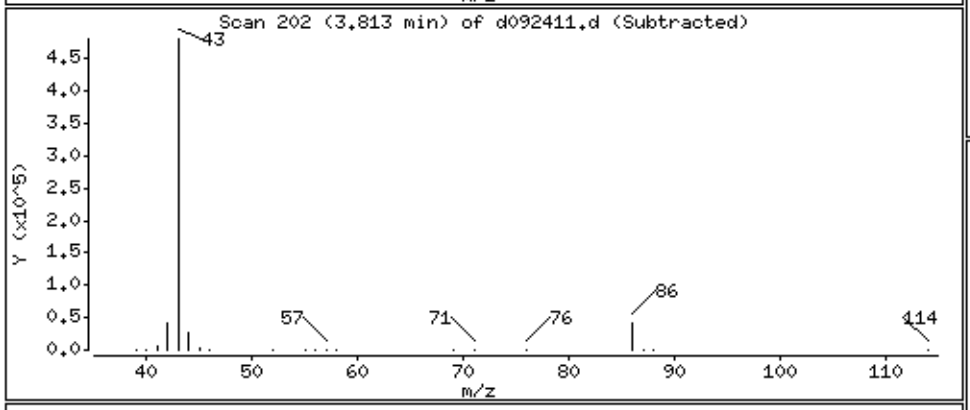
Column phase: RTx-624

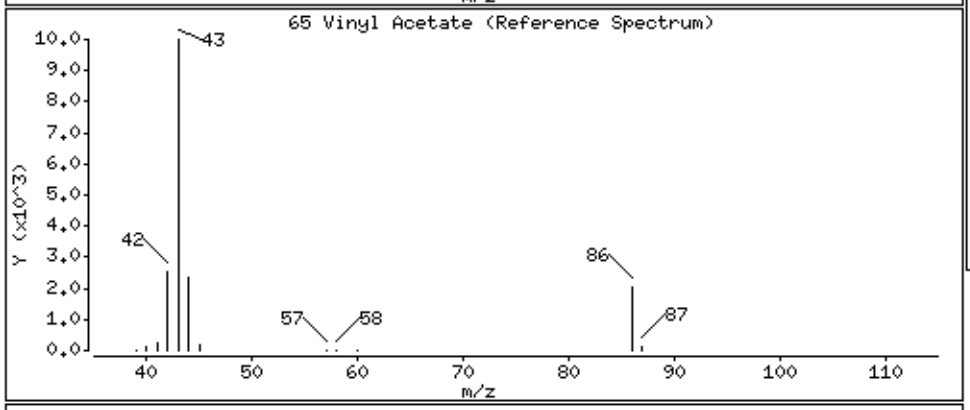
Column diameter: 0.53

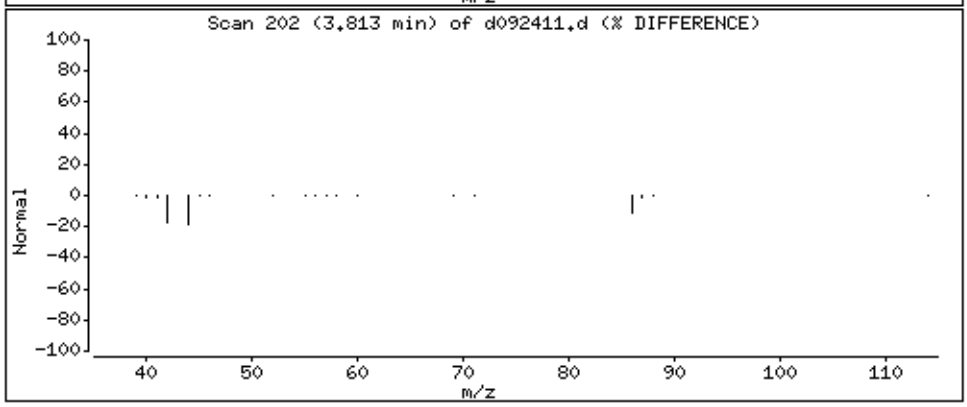
65 Vinyl Acetate

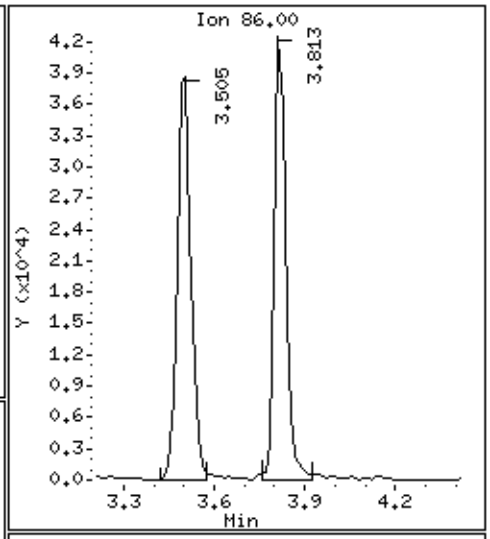
Concentration: 50.836 PPBV

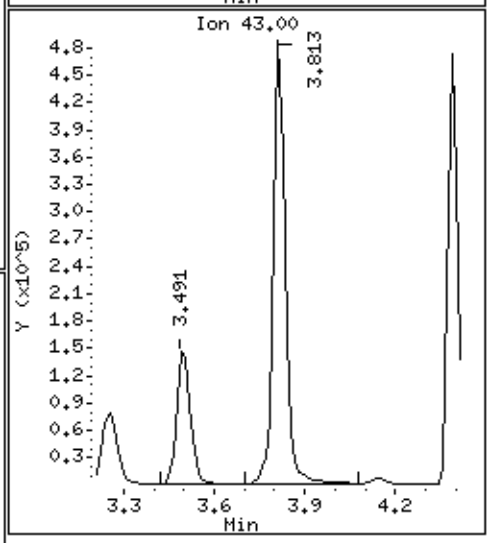












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

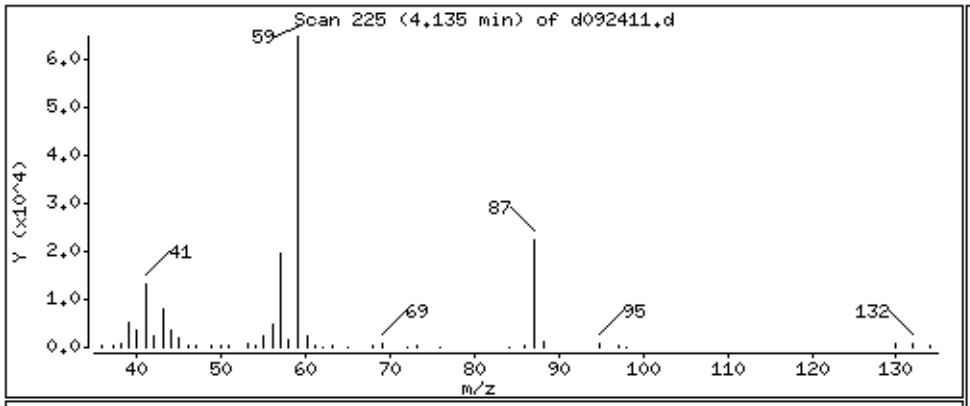
Operator: mtw

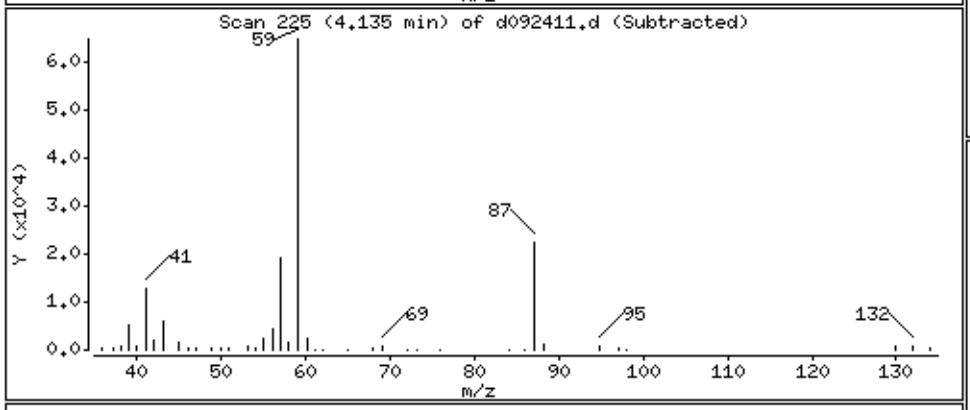
Column phase: RTx-624

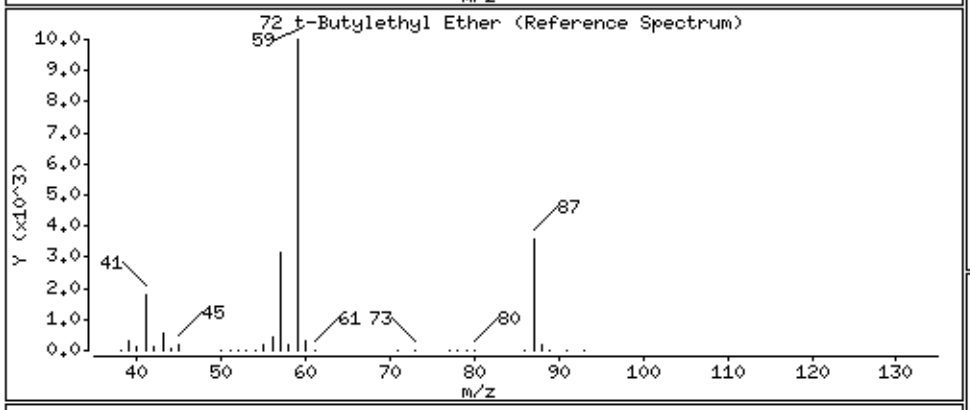
Column diameter: 0.53

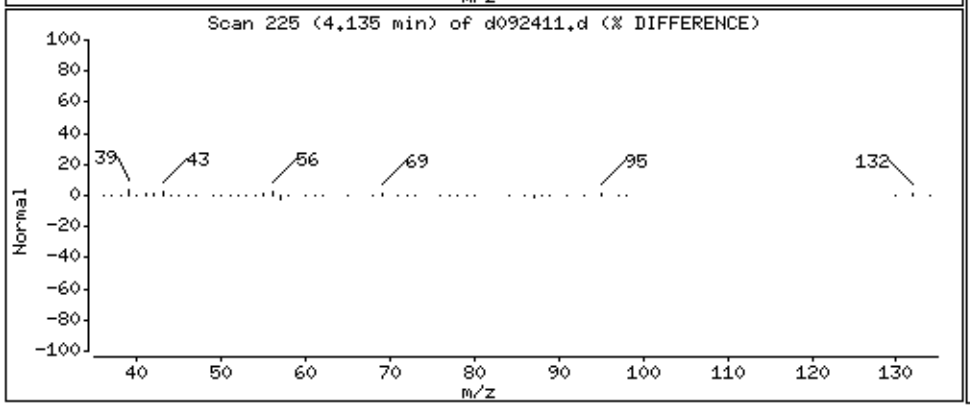
72 t-Butylethyl Ether

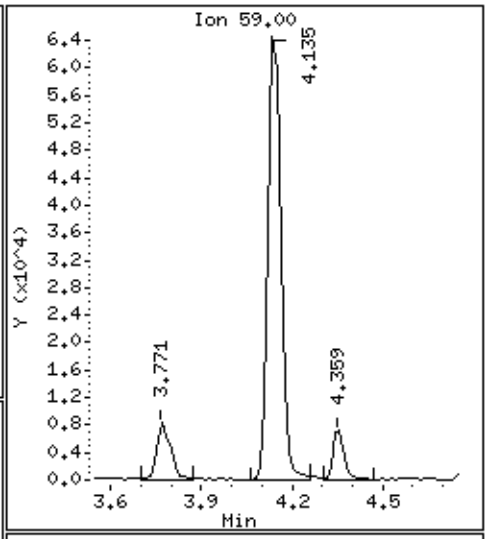
Concentration: 5.605 PPBV

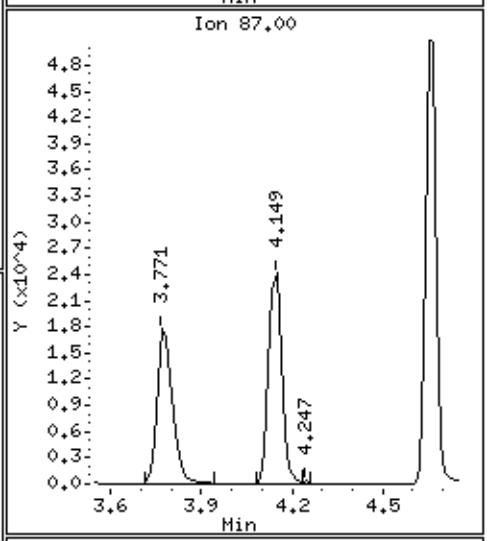


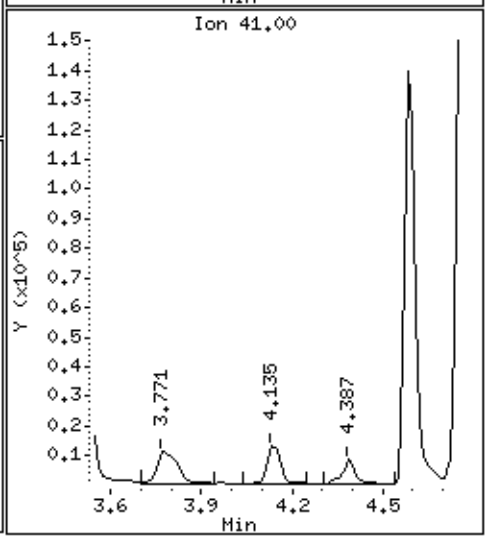












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

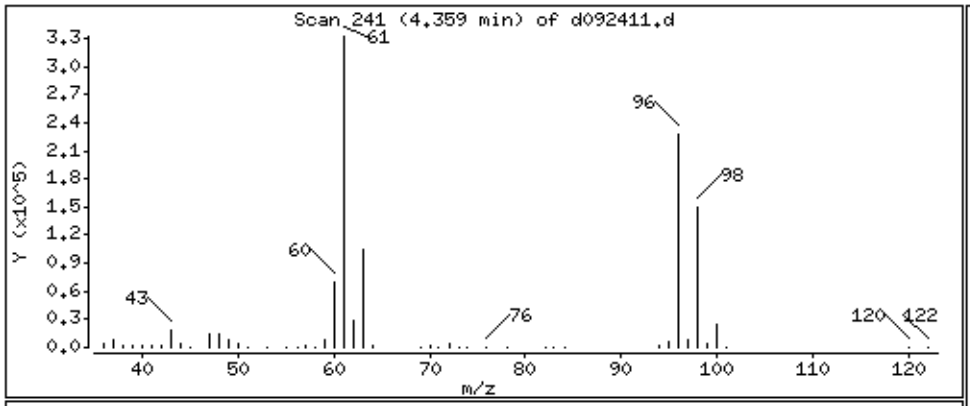
Operator: mtw

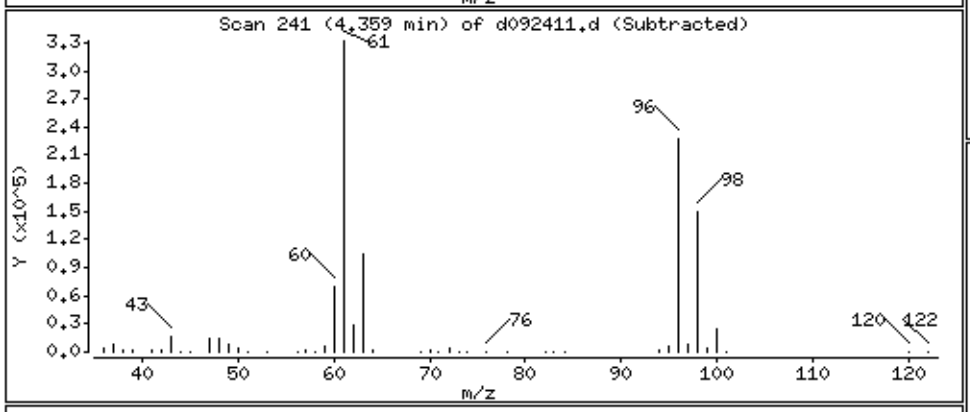
Column phase: RTx-624

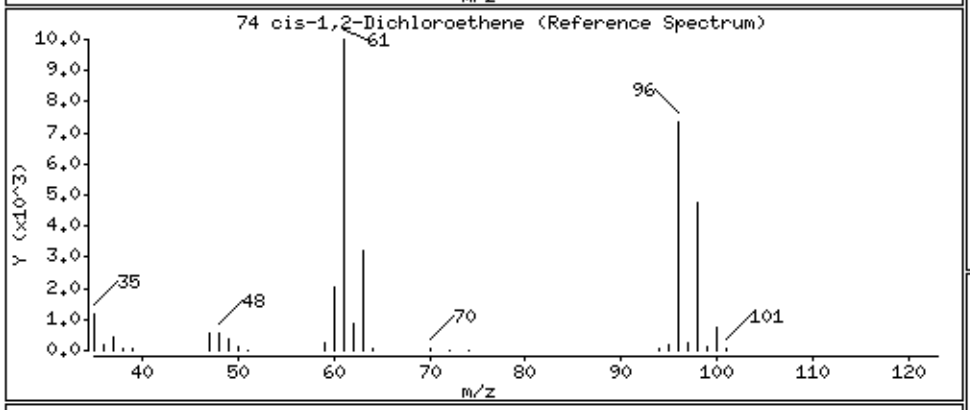
Column diameter: 0.53

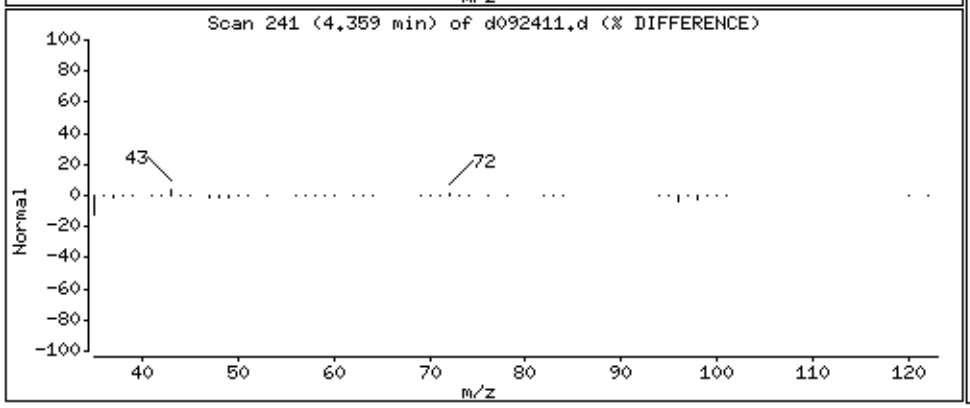
74 cis-1,2-Dichloroethene

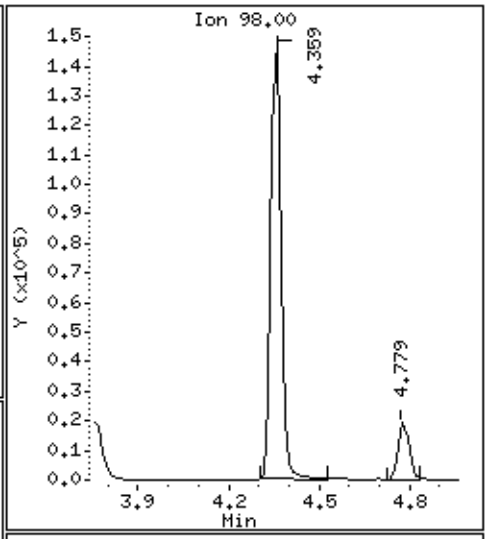
Concentration: 51.336 PPBV

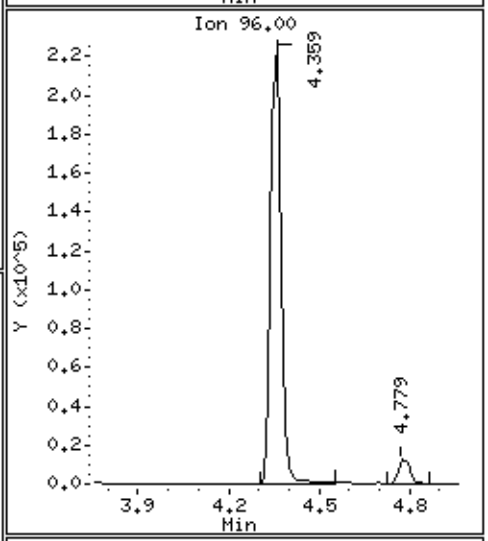


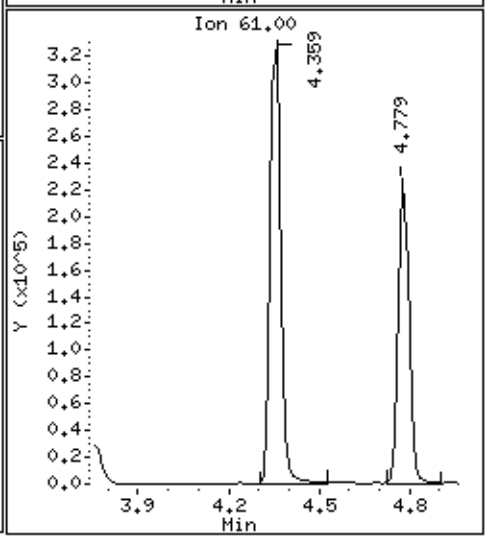












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

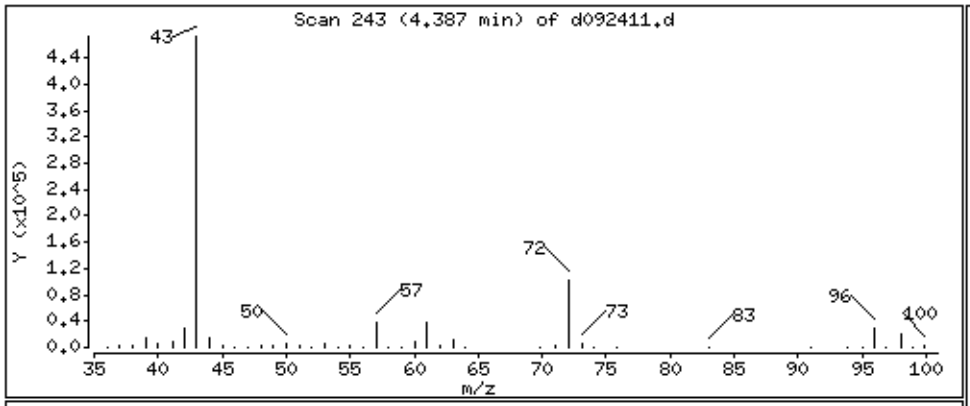
Operator: mtw

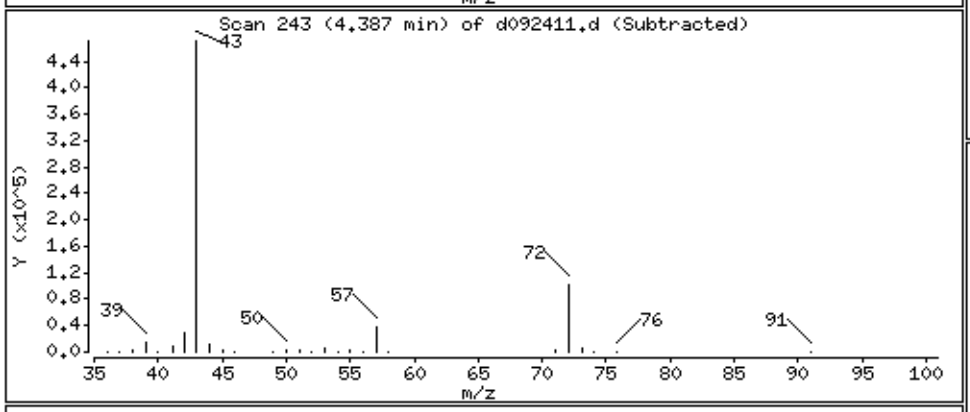
Column phase: RTx-624

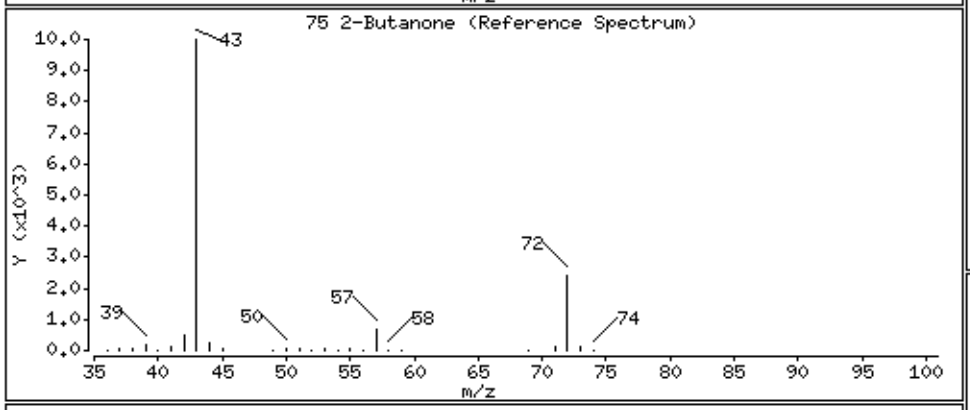
Column diameter: 0.53

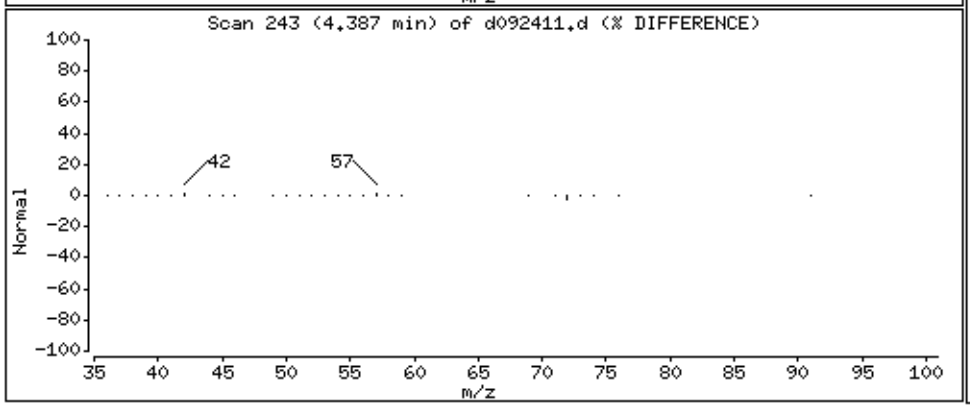
75 2-Butanone

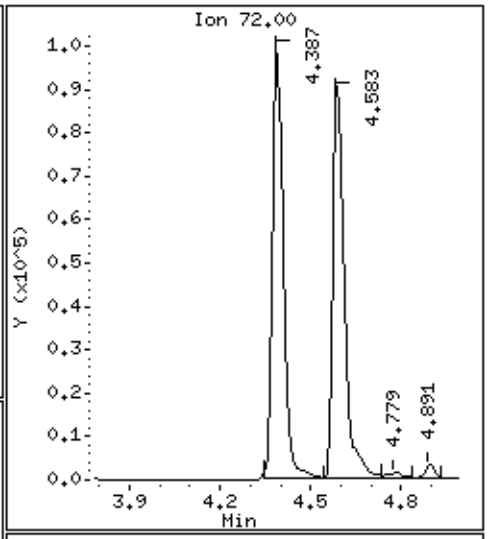
Concentration: 52.388 PPBV

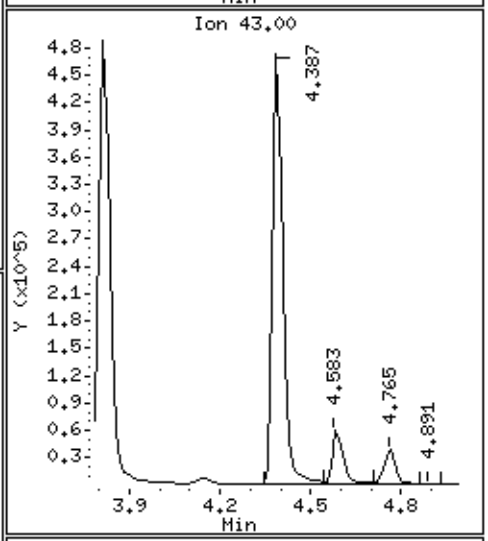


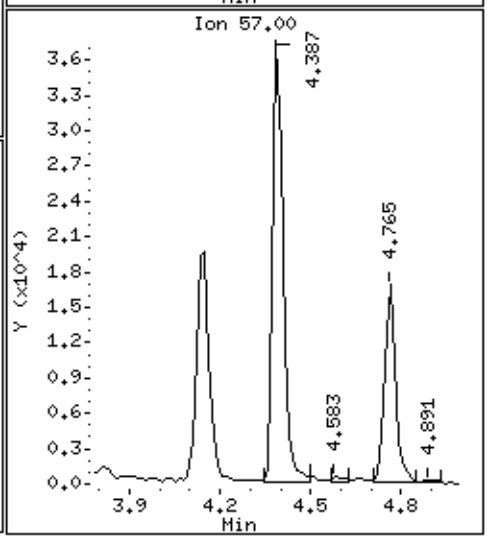












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

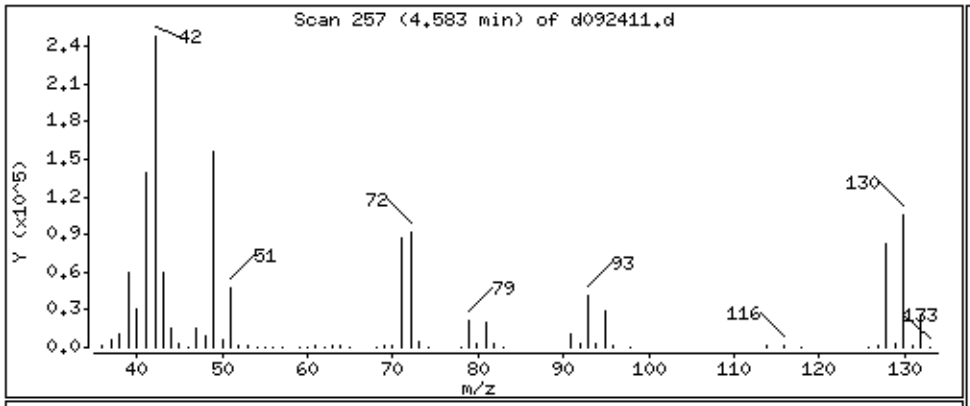
Operator: mtw

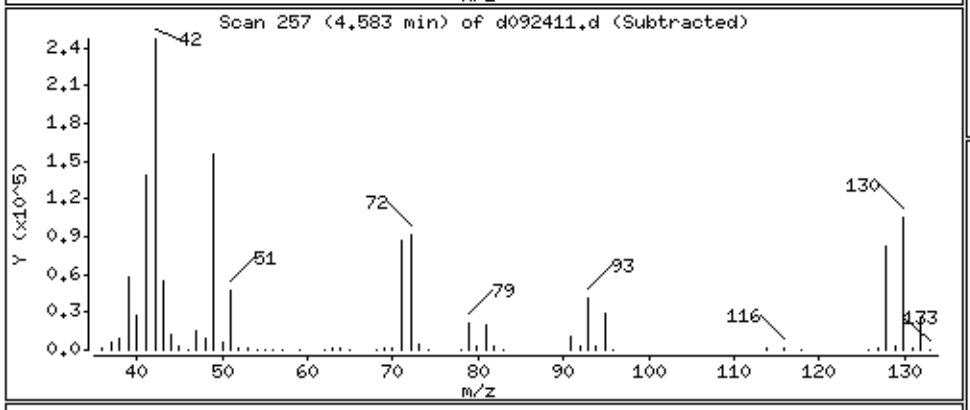
Column phase: RTx-624

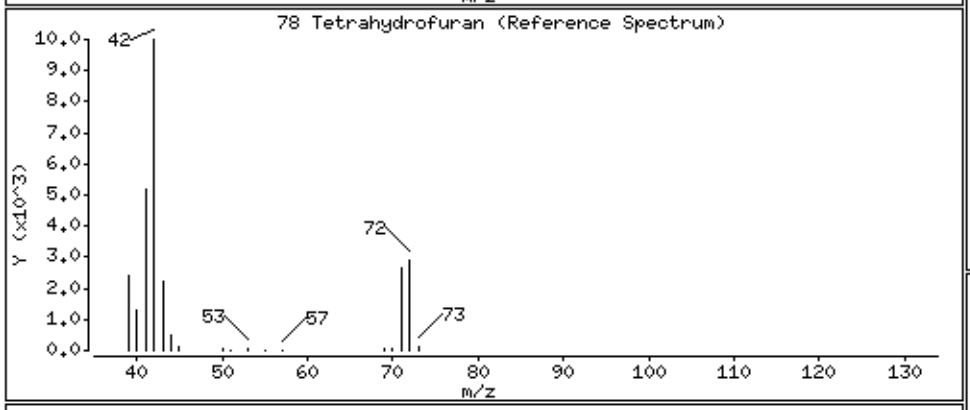
Column diameter: 0.53

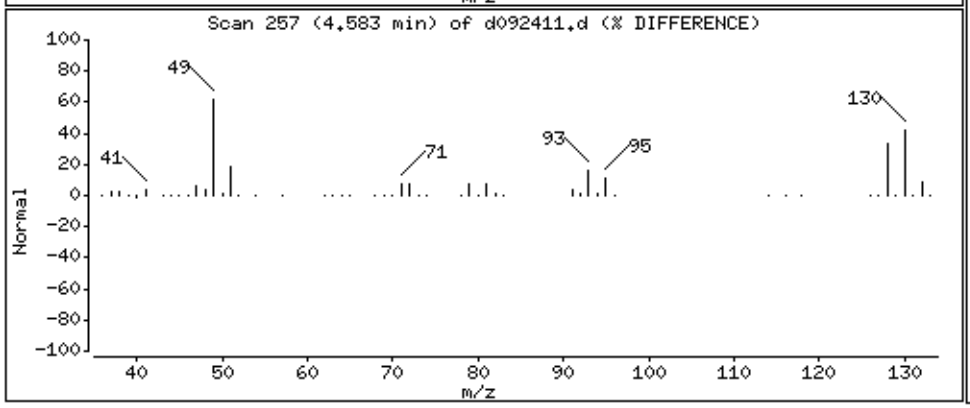
78 Tetrahydrofuran

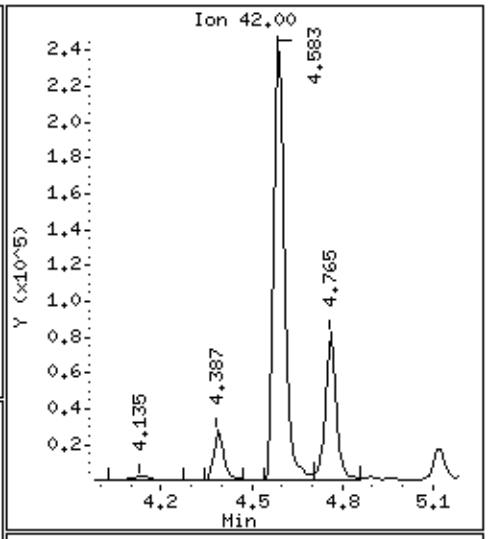
Concentration: 51.938 PPBV

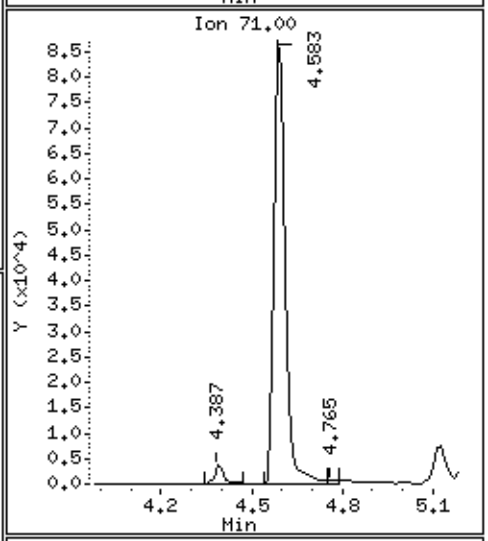


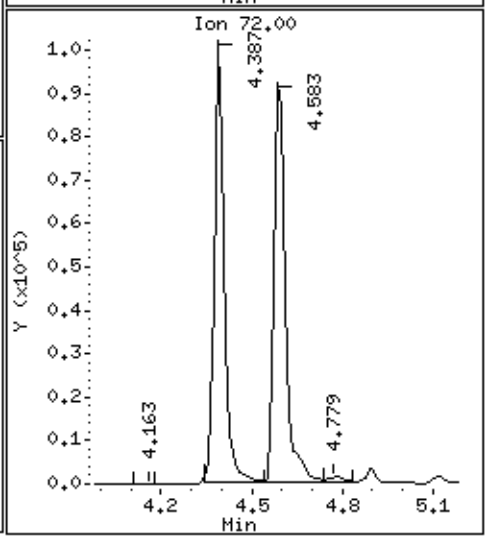












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

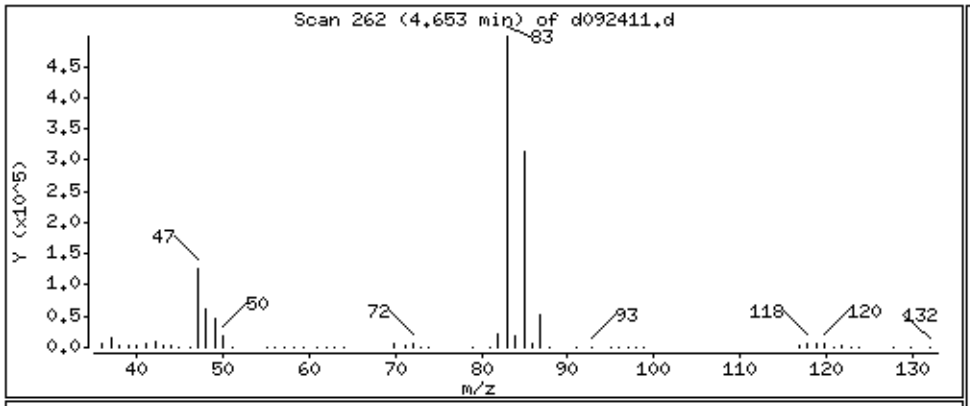
Operator: mtw

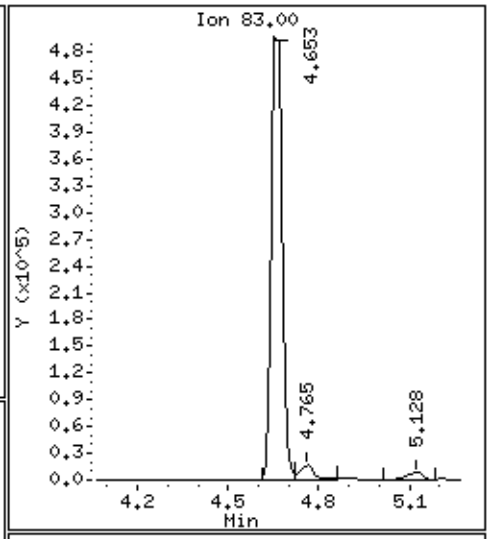
Column phase: RTx-624

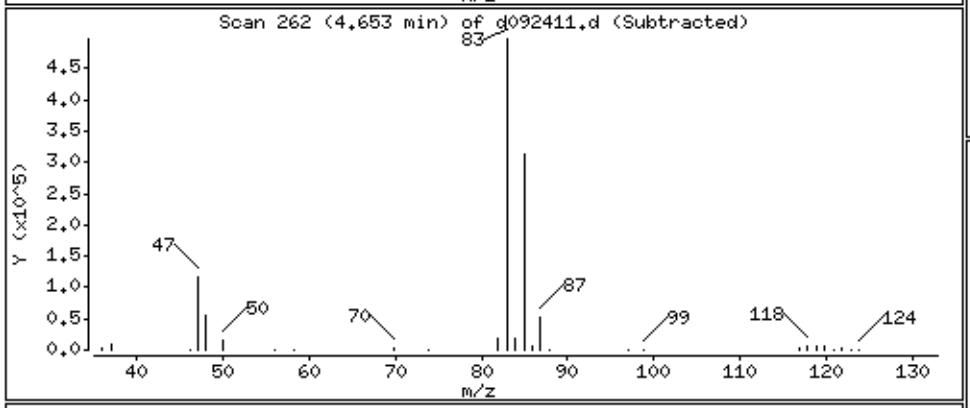
Column diameter: 0.53

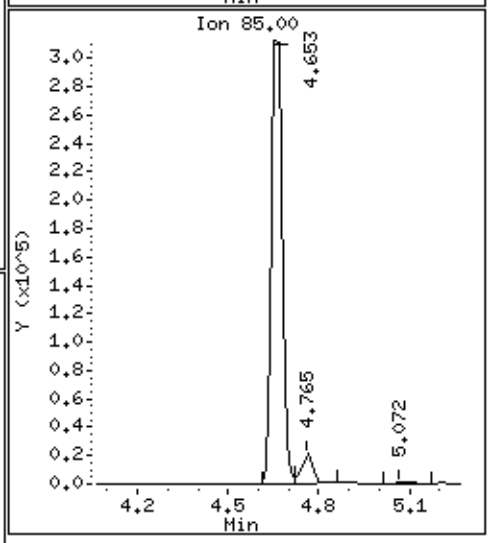
80 Chloroform

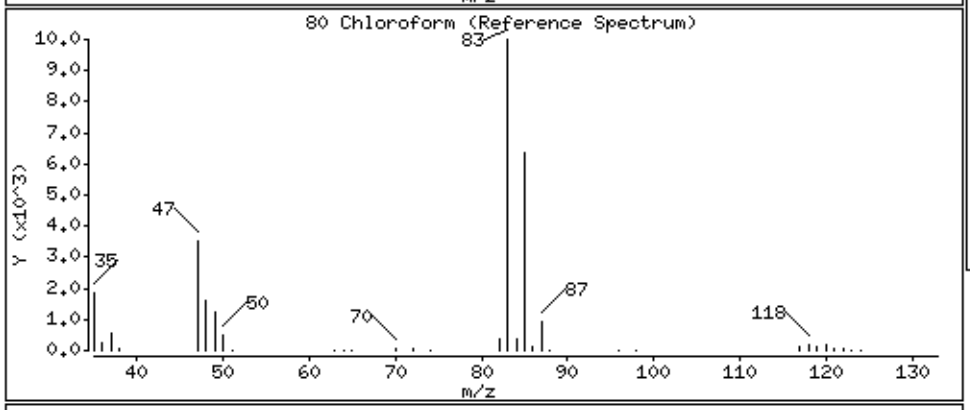
Concentration: 51.402 PPBV

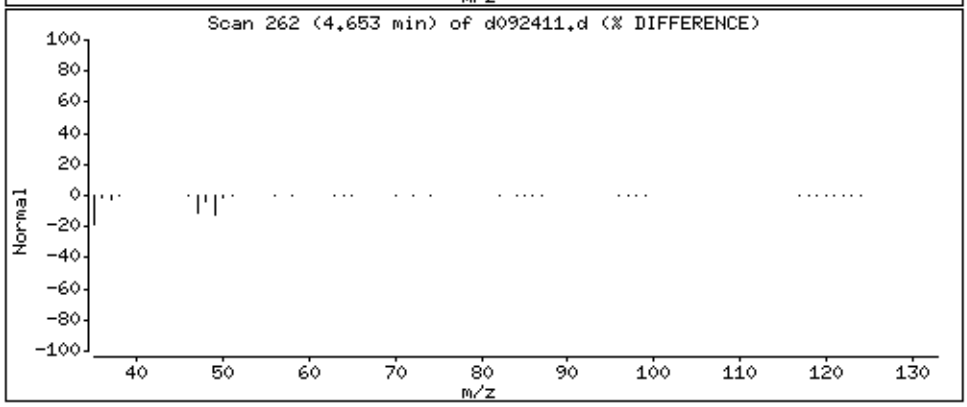












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

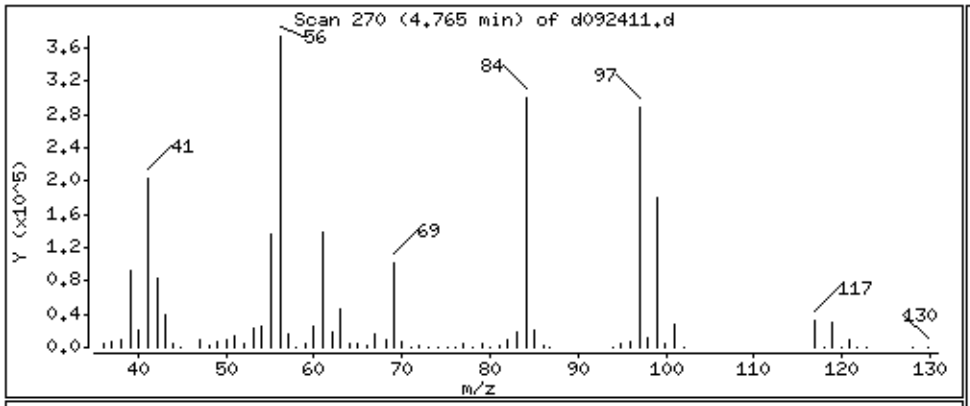
Operator: mtw

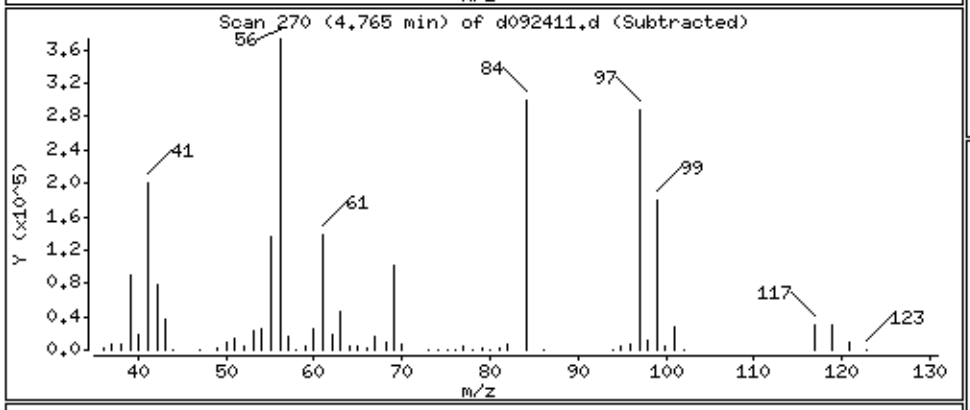
Column phase: RTx-624

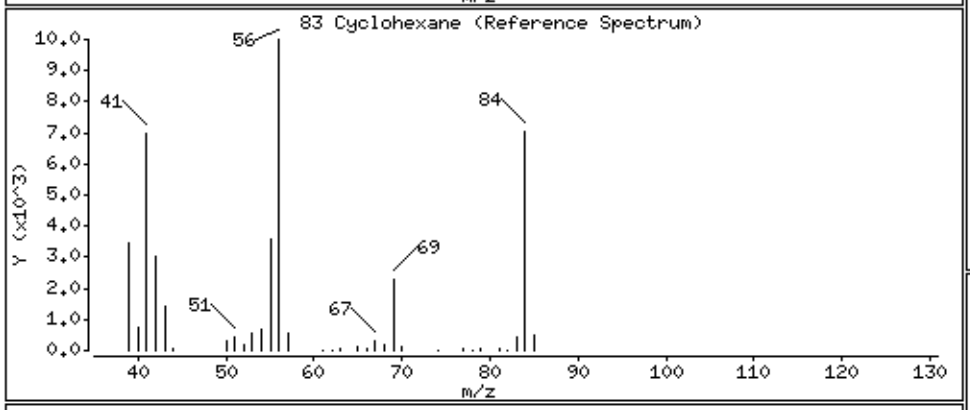
Column diameter: 0.53

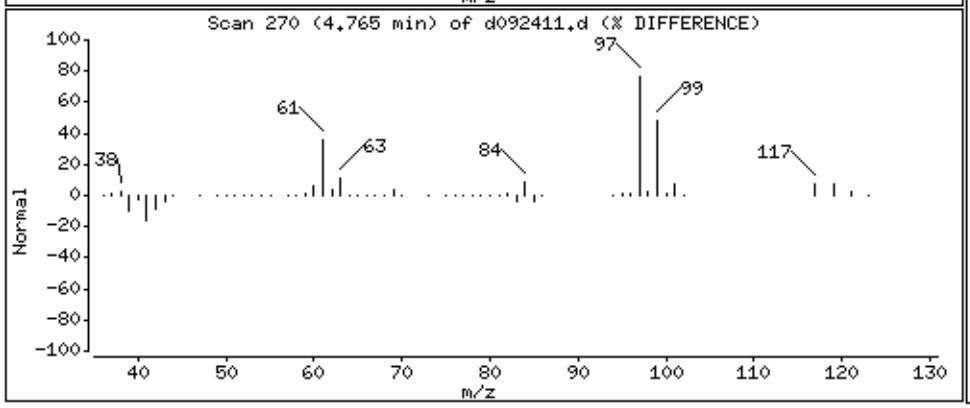
83 Cyclohexane

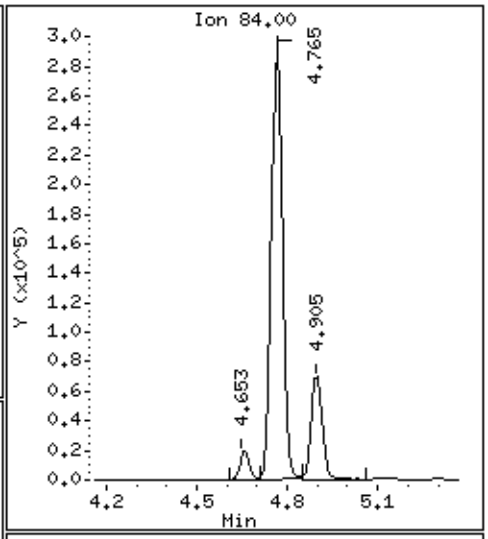
Concentration: 51.989 PPBV

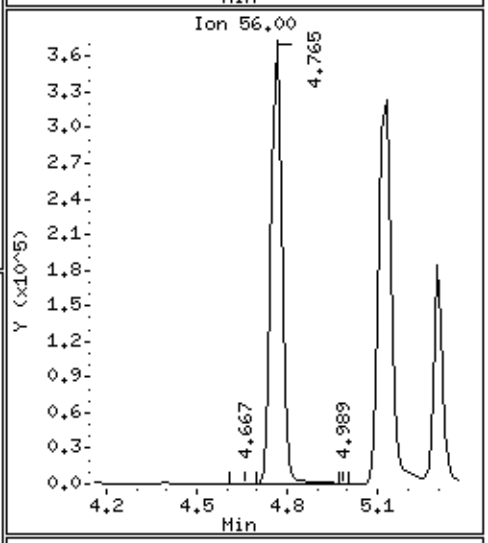


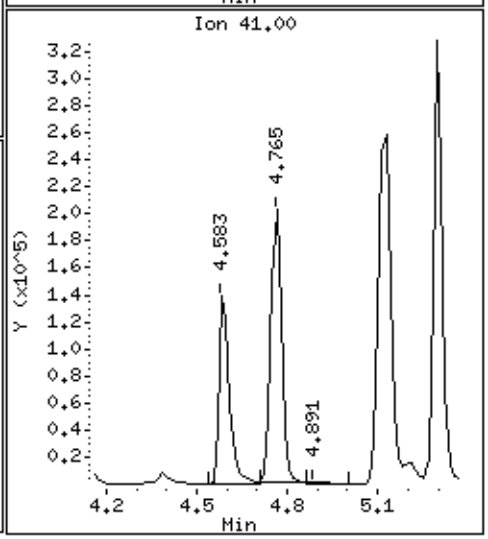












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

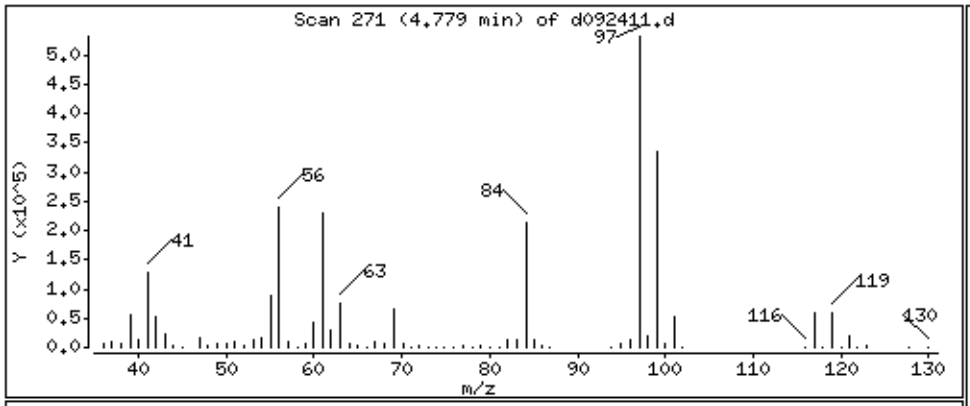
Operator: mtw

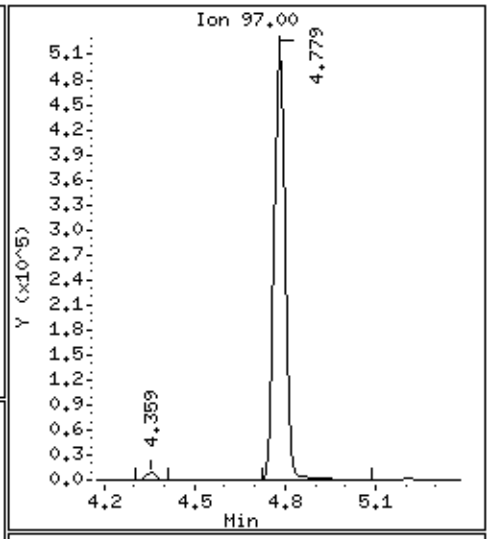
Column phase: RTx-624

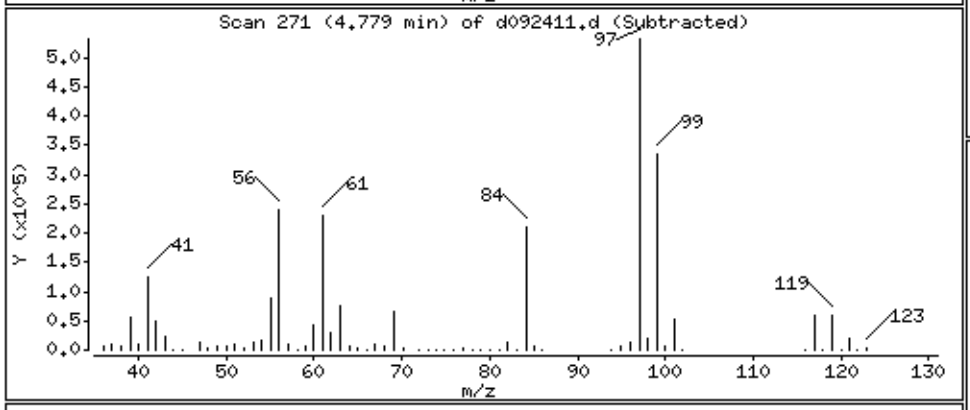
Column diameter: 0.53

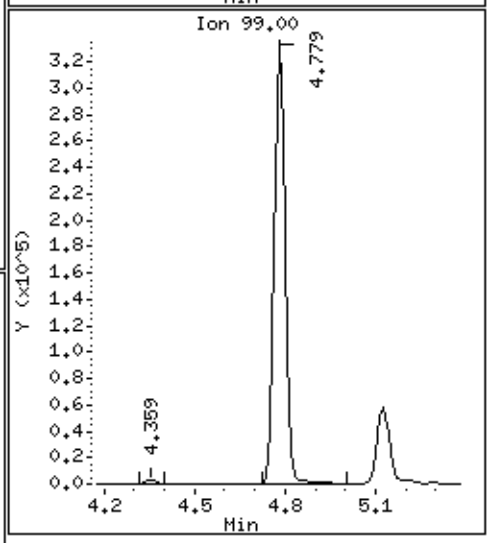
85 1,1,1-Trichloroethane

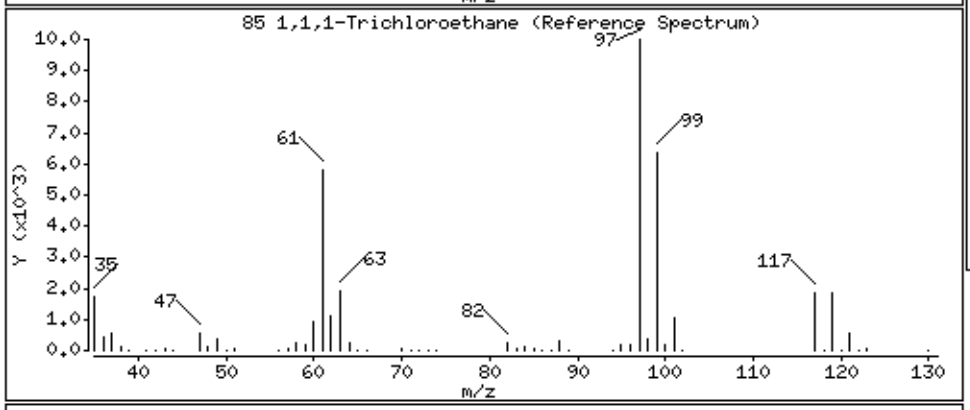
Concentration: 52.827 PPBV

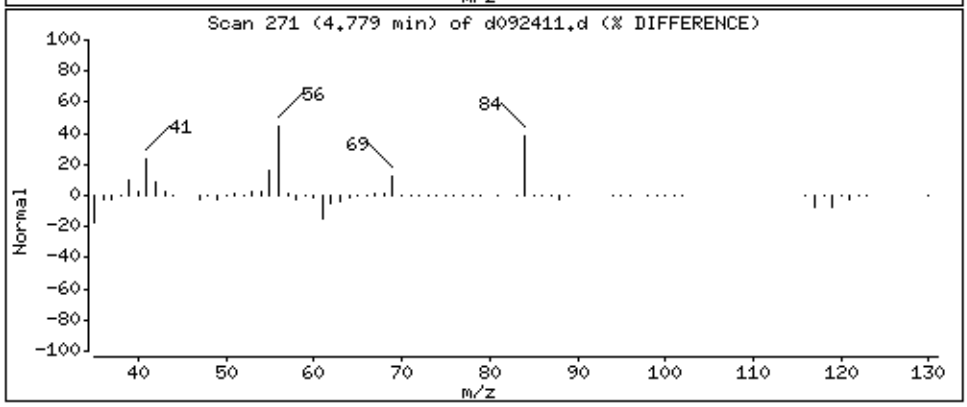












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

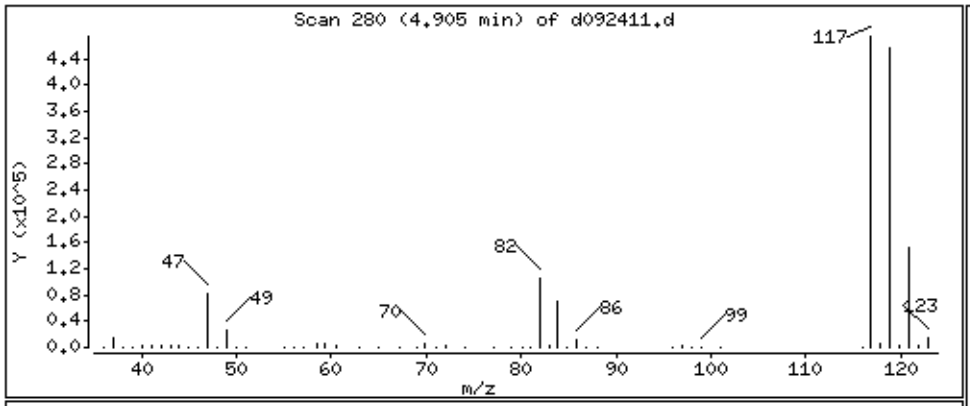
Operator: mtw

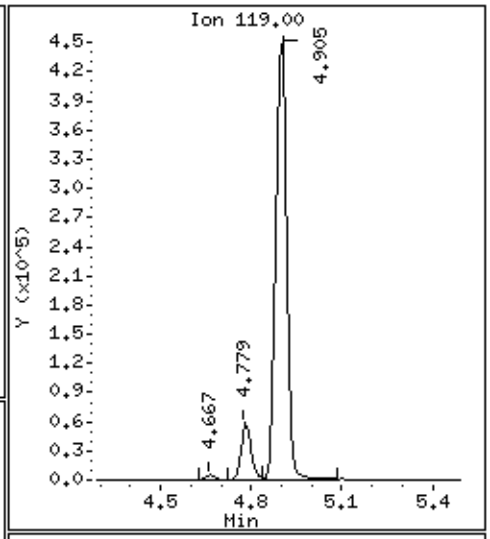
Column phase: RTx-624

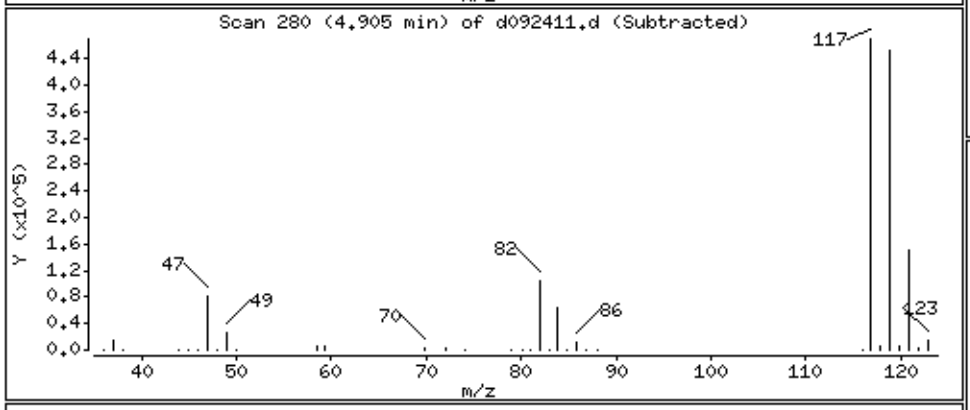
Column diameter: 0.53

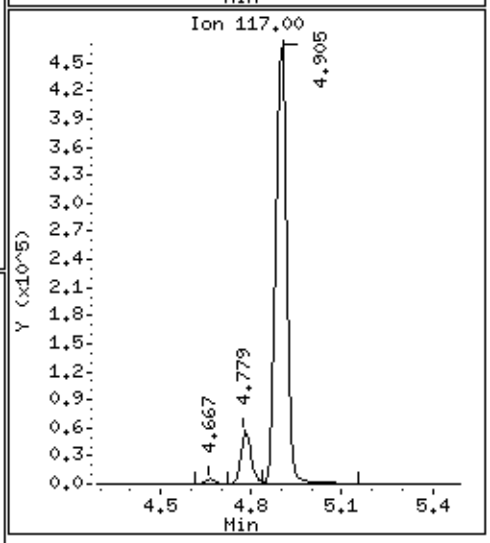
86 Carbon Tetrachloride

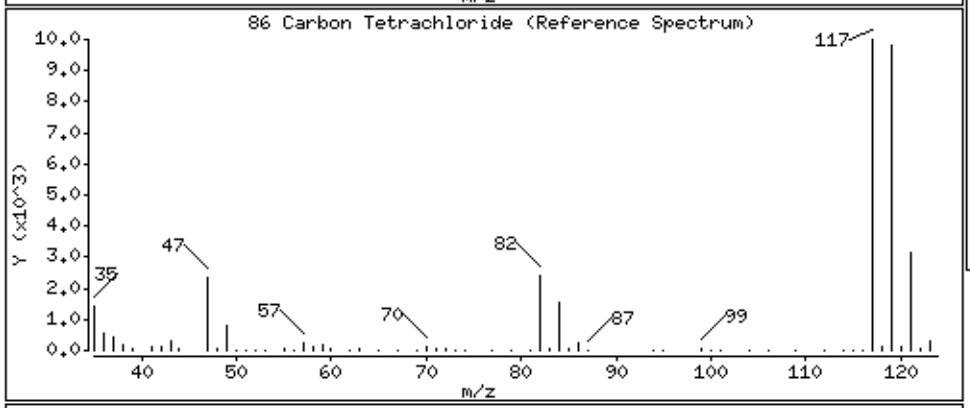
Concentration: 54.396 PPBV

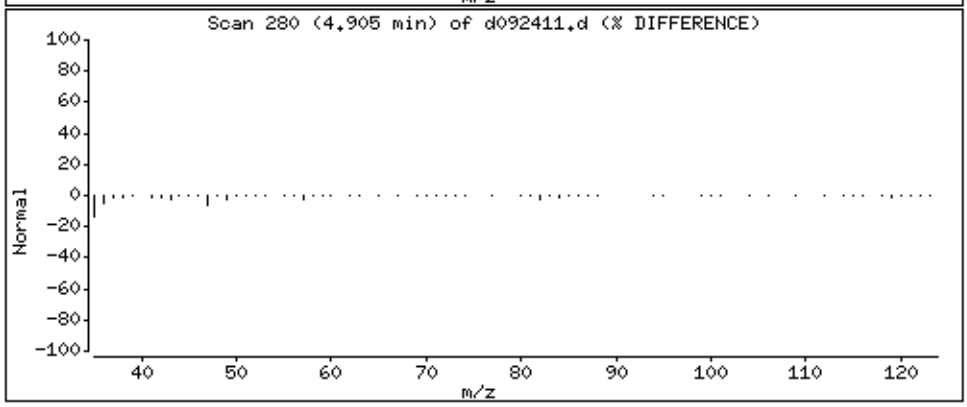












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

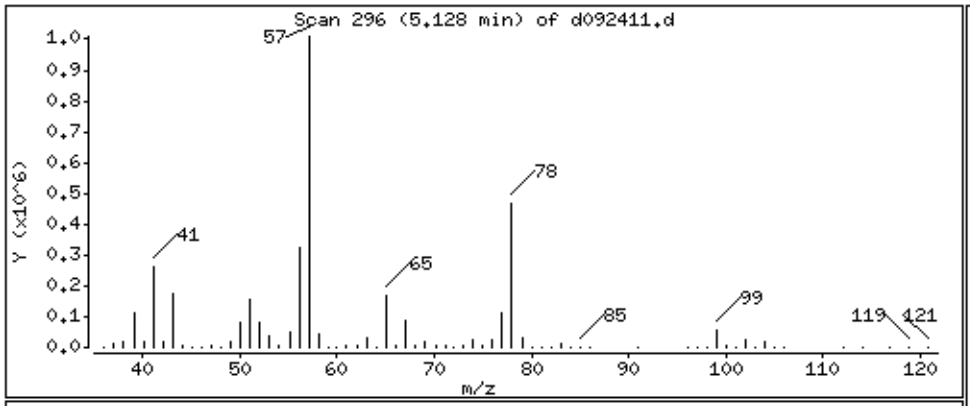
Operator: mtw

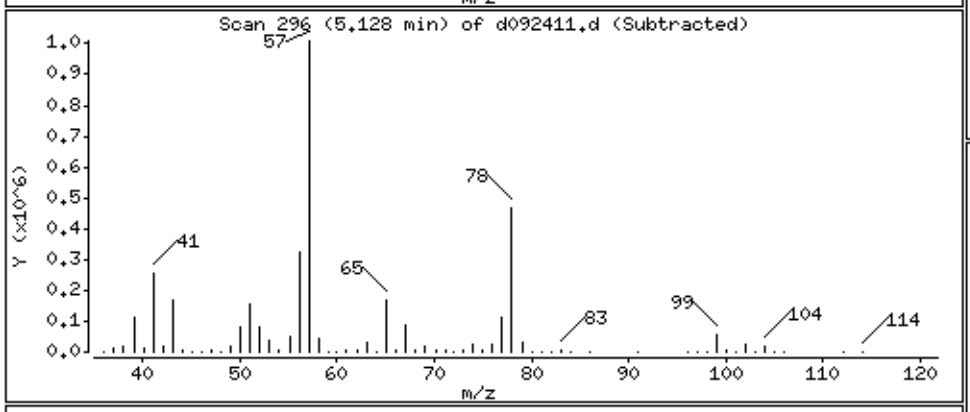
Column phase: RTx-624

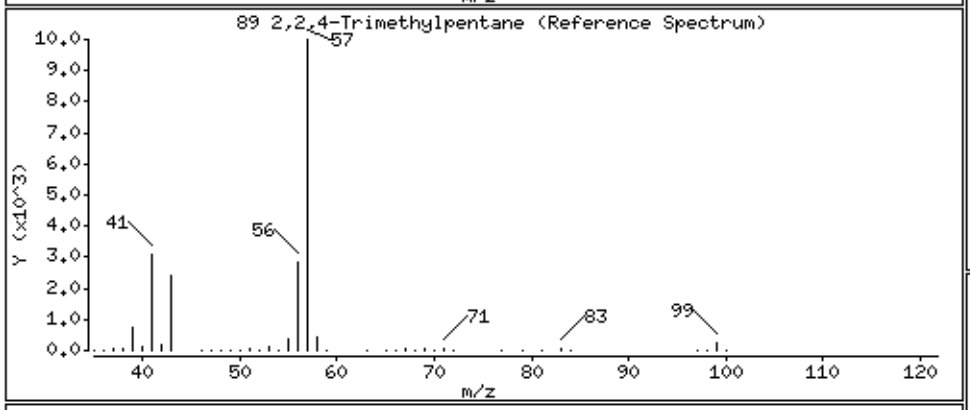
Column diameter: 0.53

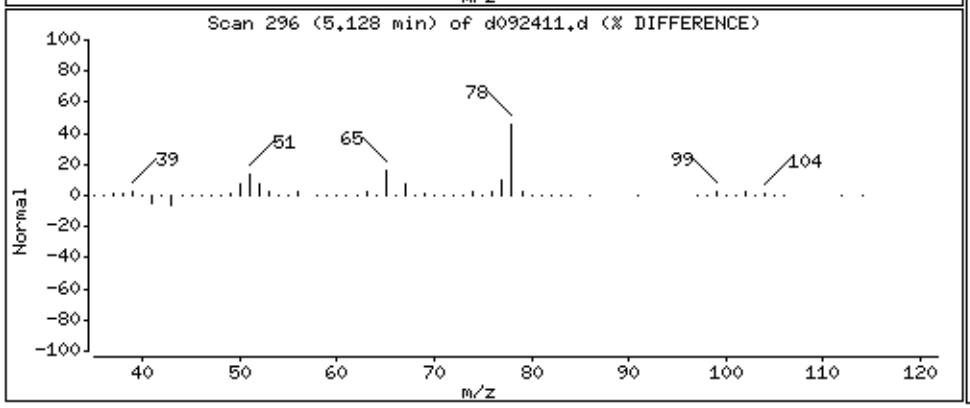
89 2,2,4-Trimethylpentane

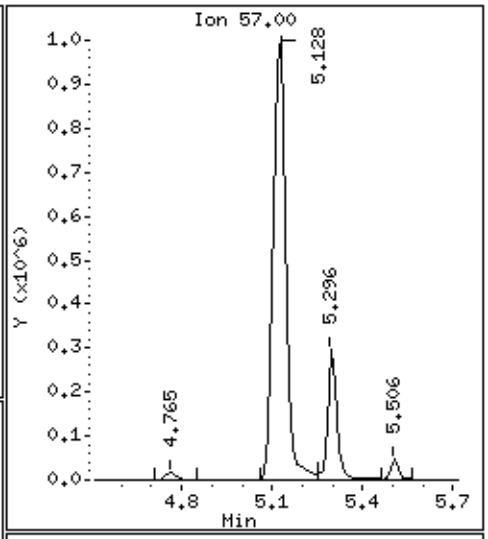
Concentration: 53.363 PPBV

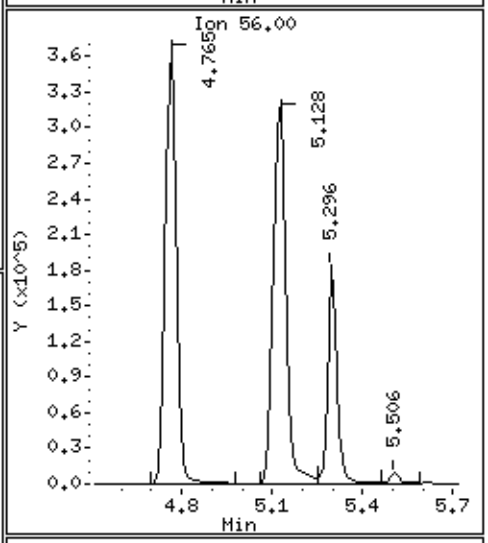


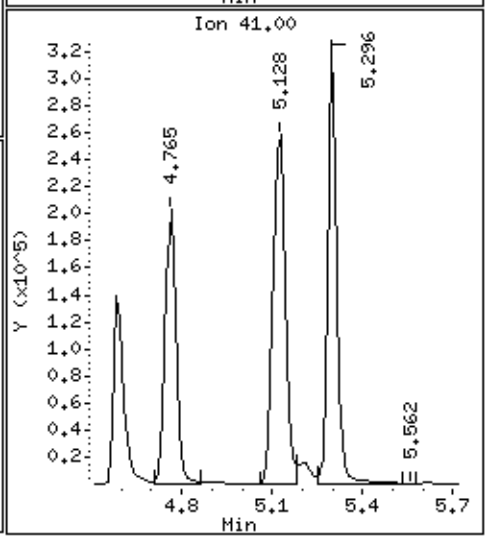












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

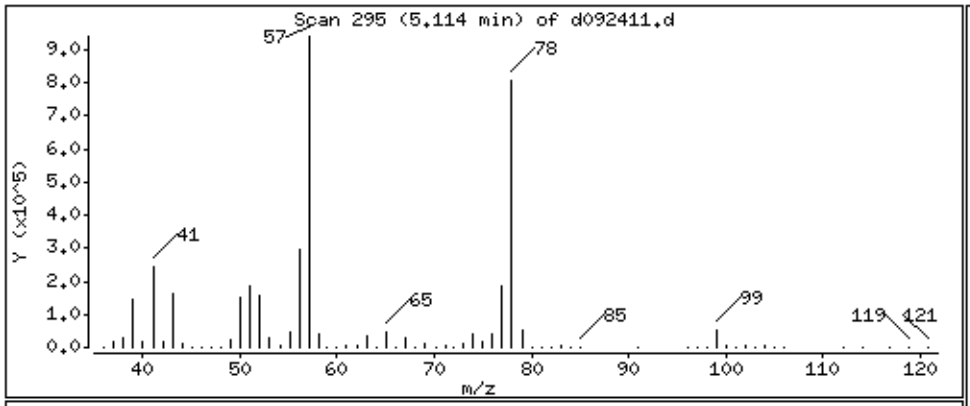
Operator: mtw

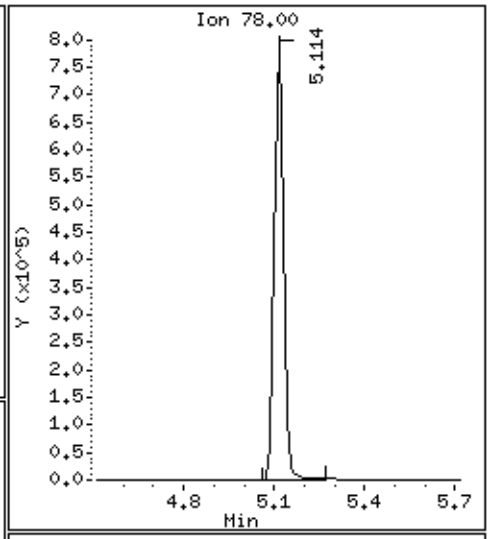
Column phase: RTx-624

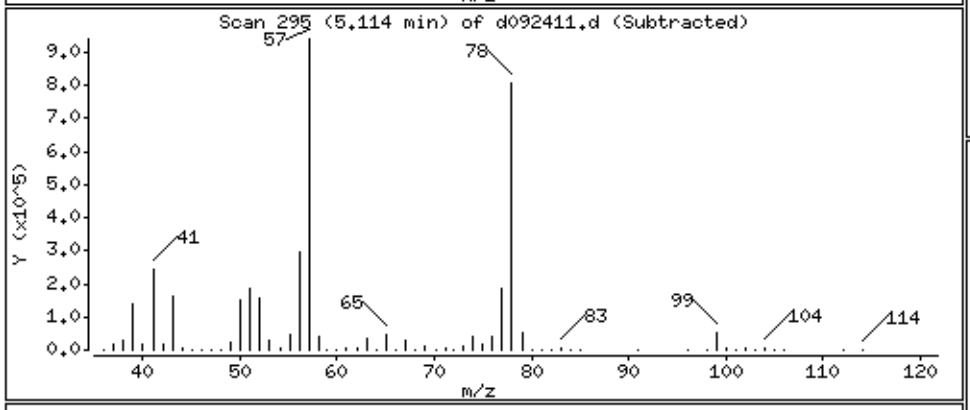
Column diameter: 0.53

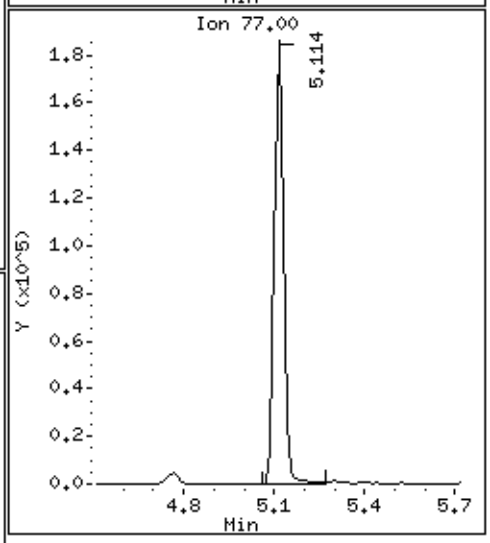
90 Benzene

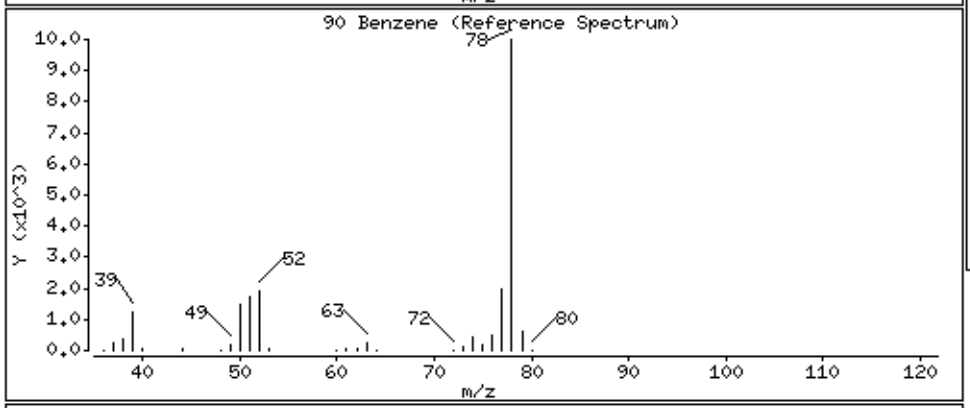
Concentration: 50.034 PPBV

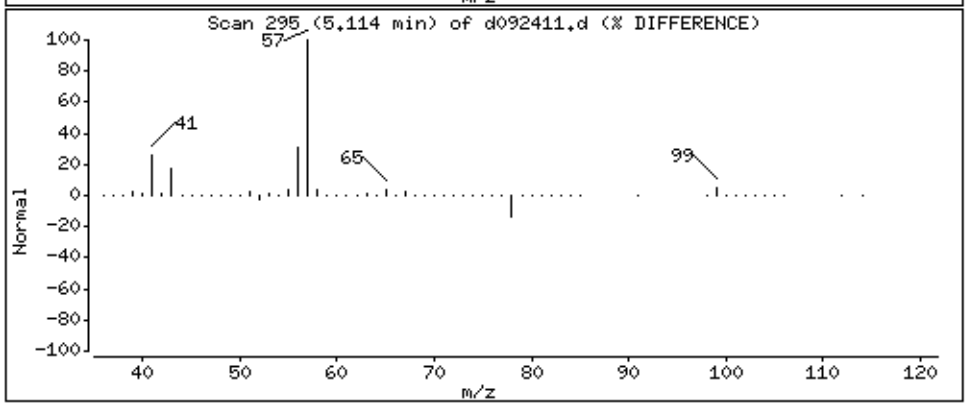












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

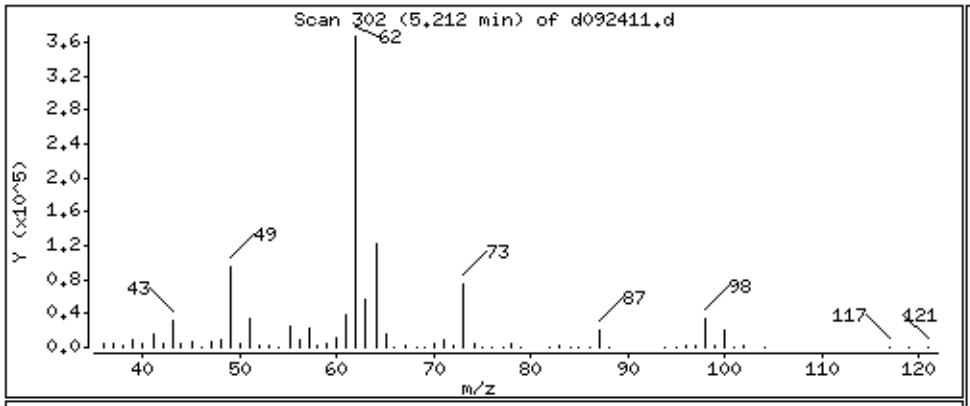
Operator: mtw

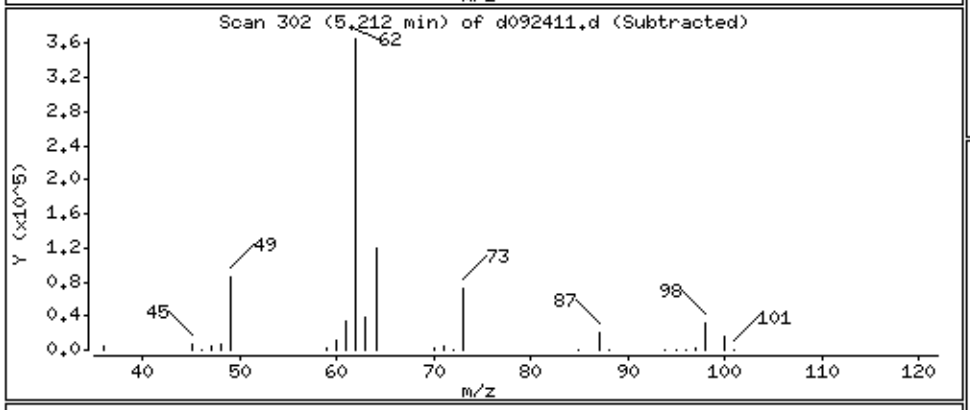
Column phase: RTx-624

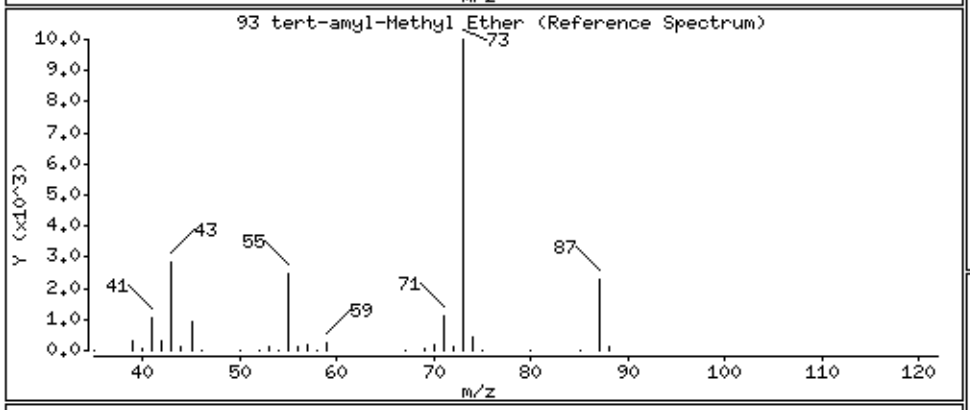
Column diameter: 0.53

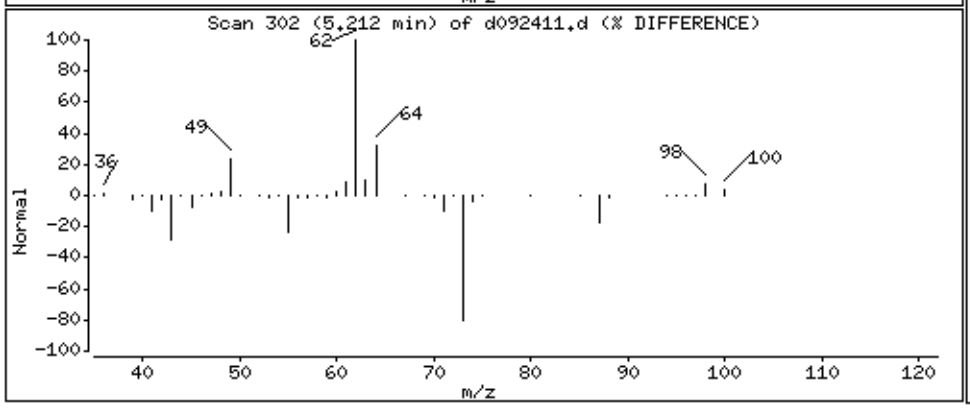
93 tert-amyl-Methyl Ether

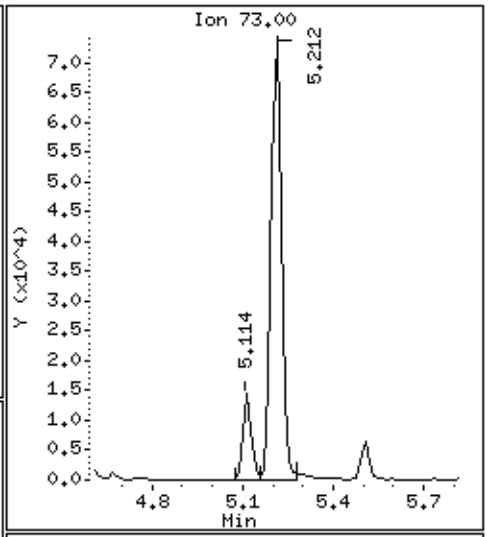
Concentration: 5.469 PPBV

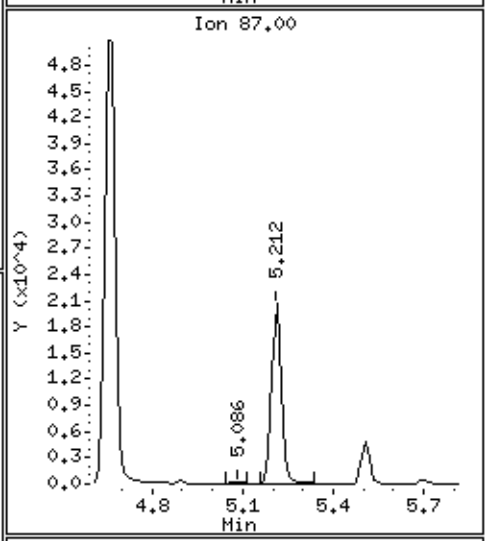


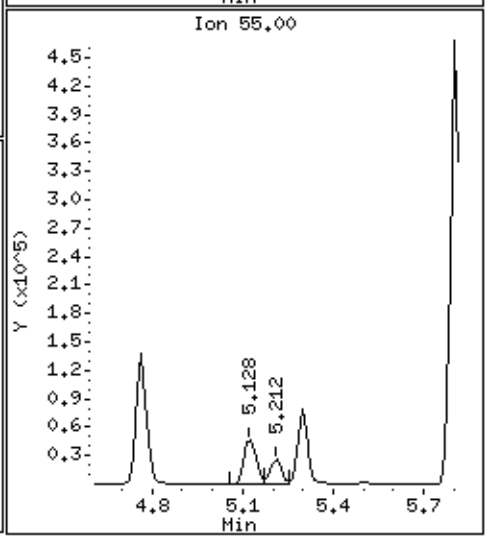












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

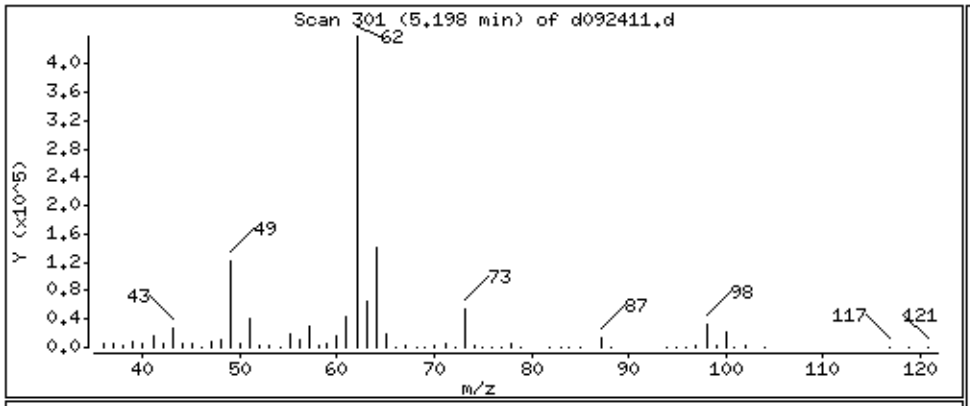
Operator: mtw

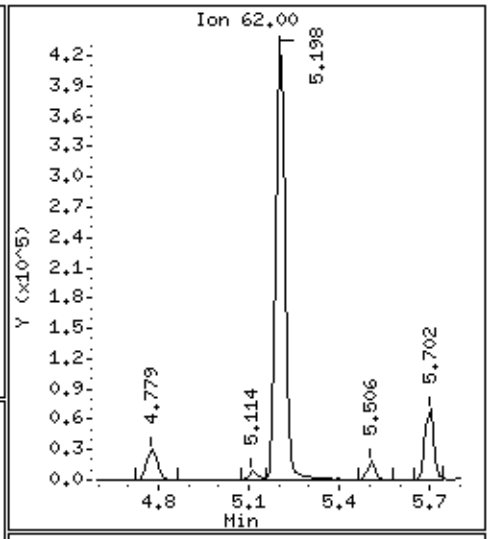
Column phase: RTx-624

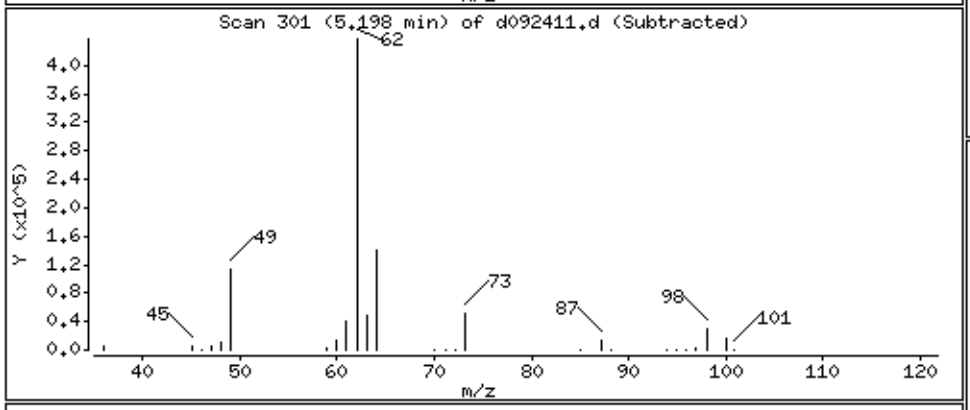
Column diameter: 0.53

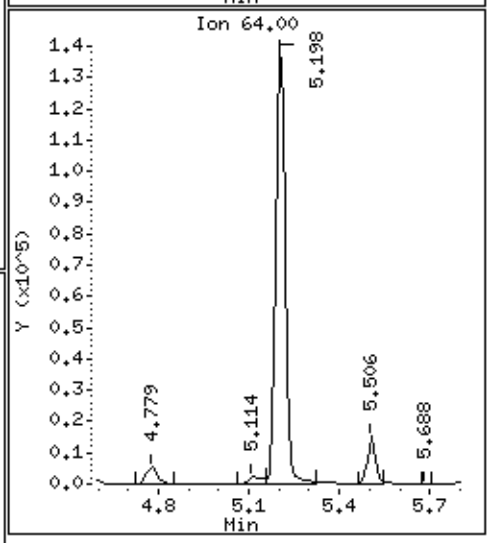
94 1,2-Dichloroethane

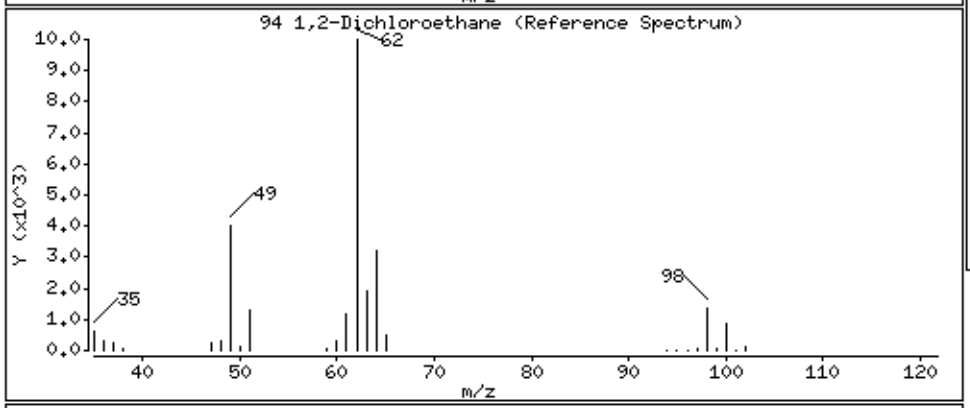
Concentration: 51.048 PPBV

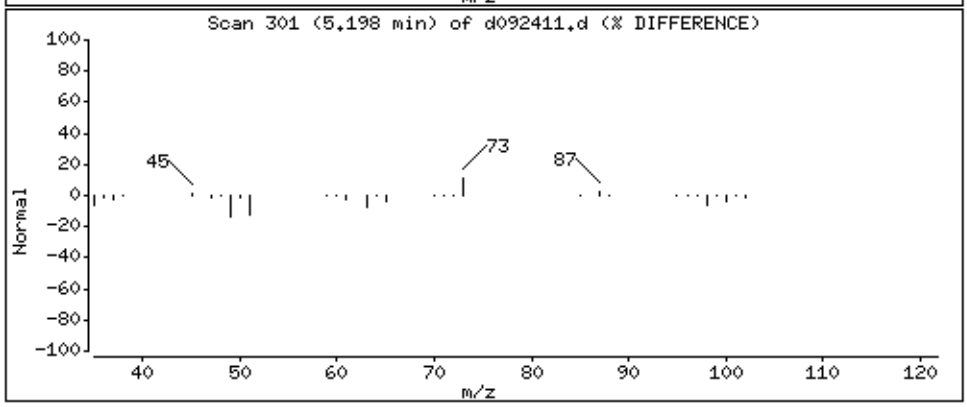












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

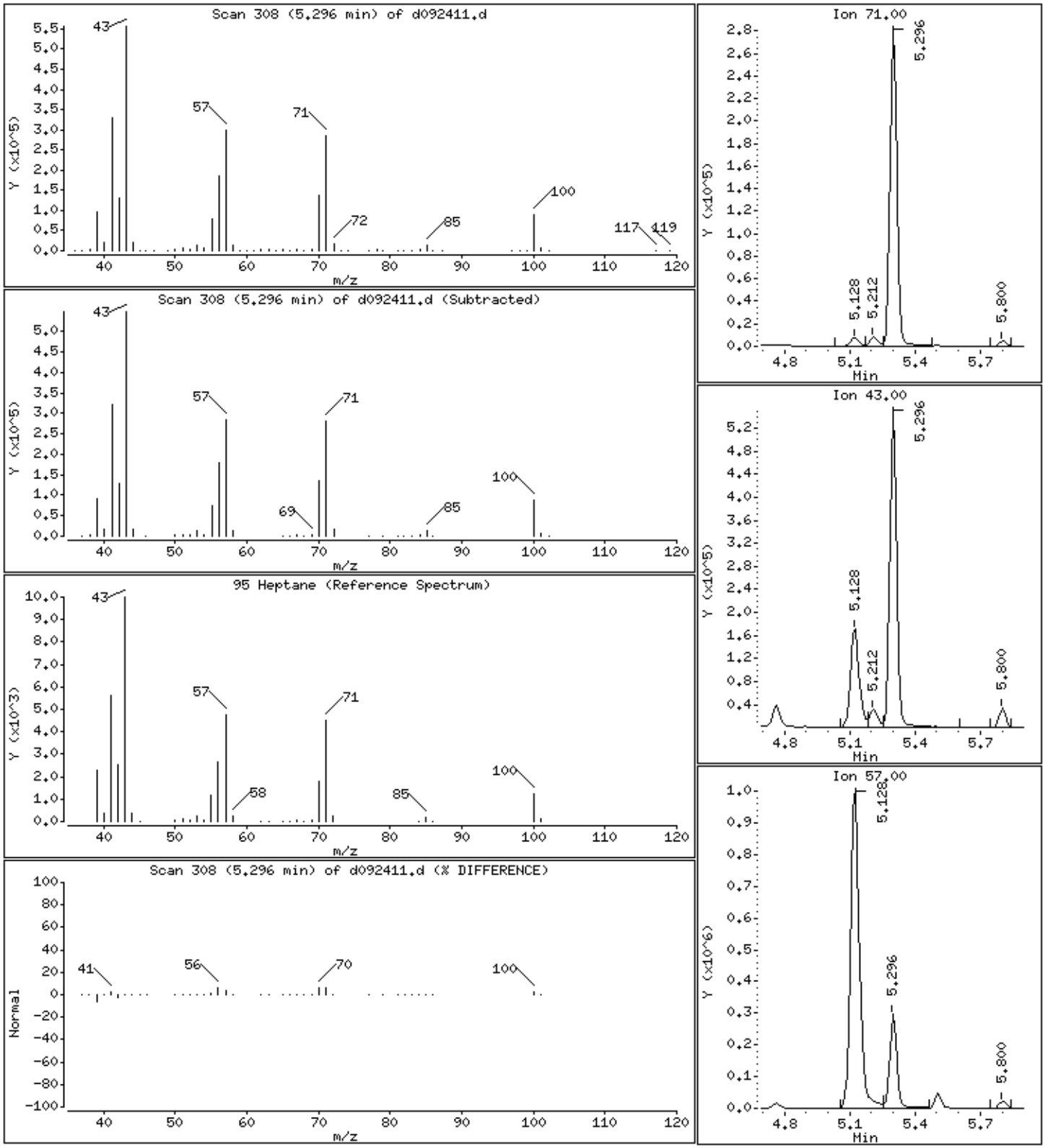
Operator: mtw

Column phase: RTx-624

Column diameter: 0.53

95 Heptane

Concentration: 52.244 PPBV



Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

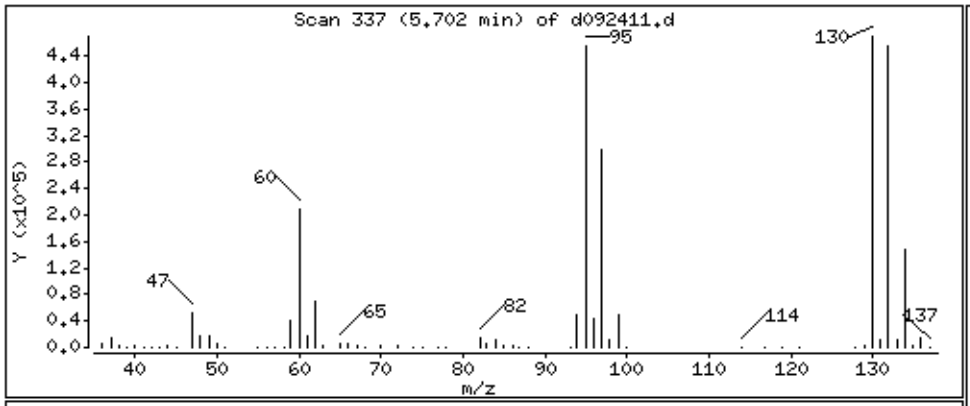
Operator: mtw

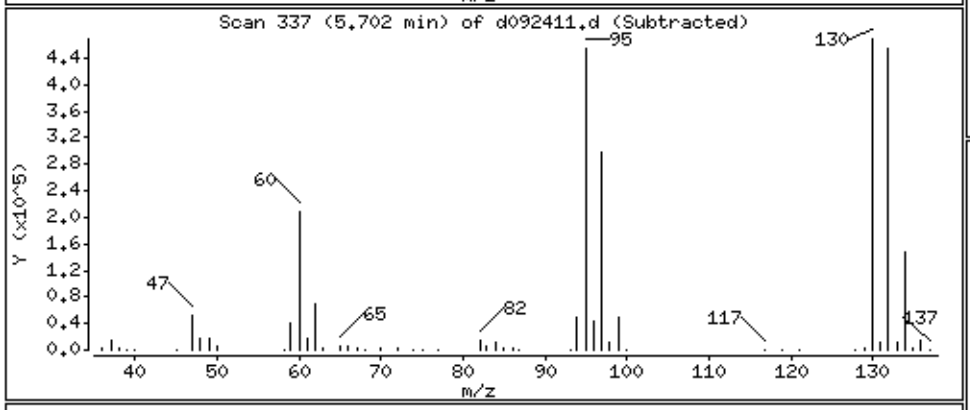
Column phase: RTx-624

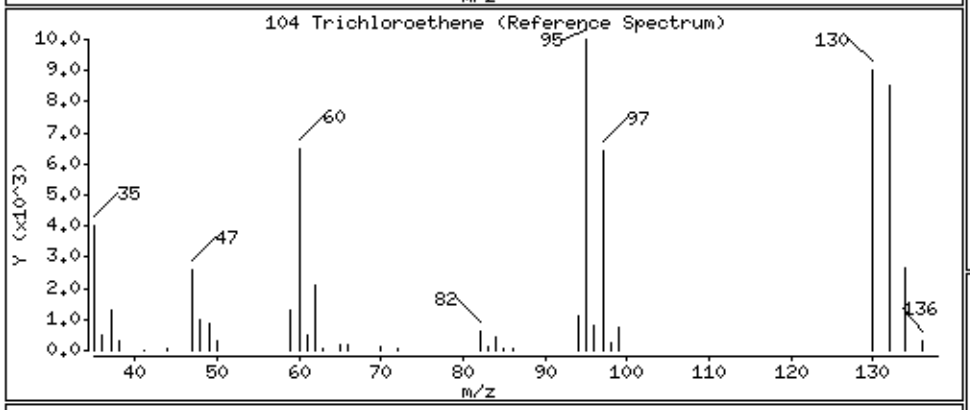
Column diameter: 0.53

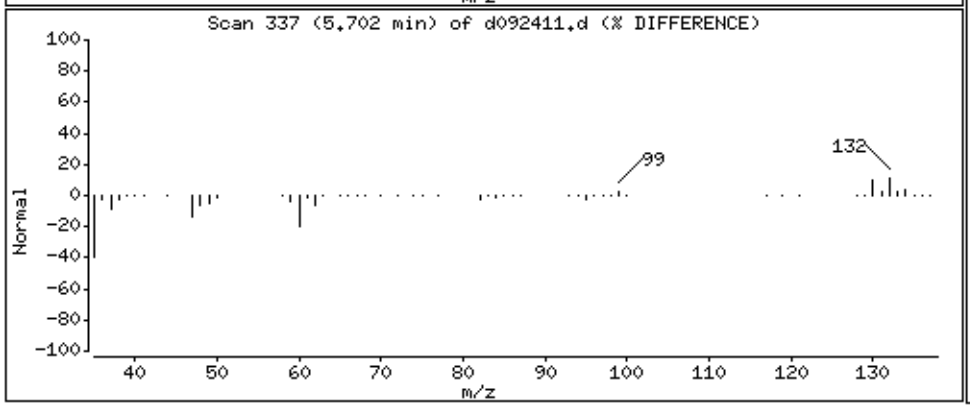
104 Trichloroethene

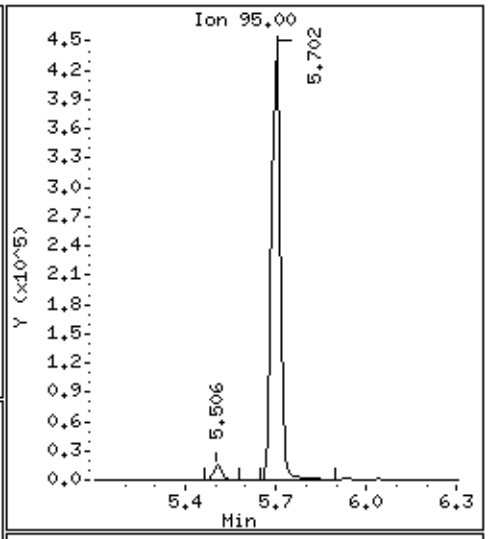
Concentration: 53.545 PPBV

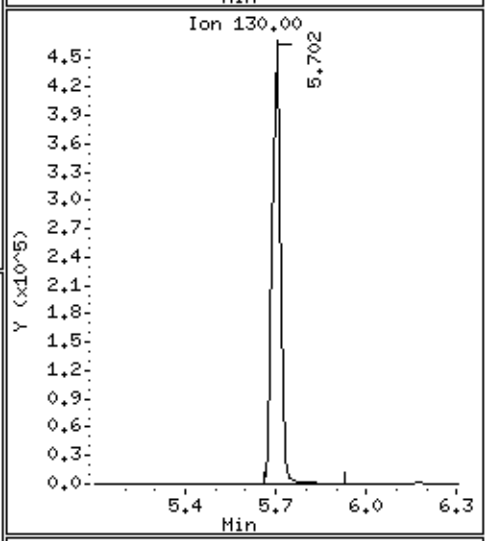


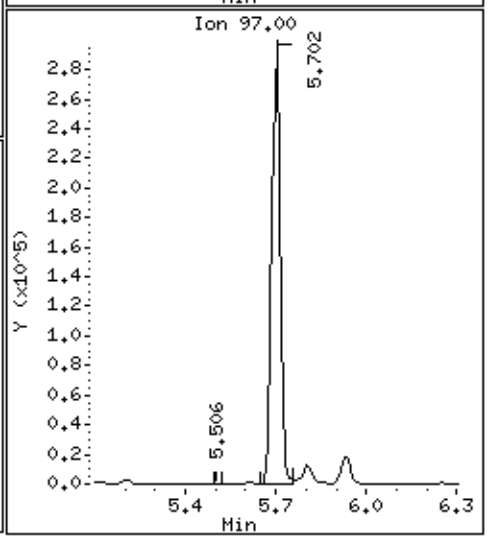












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

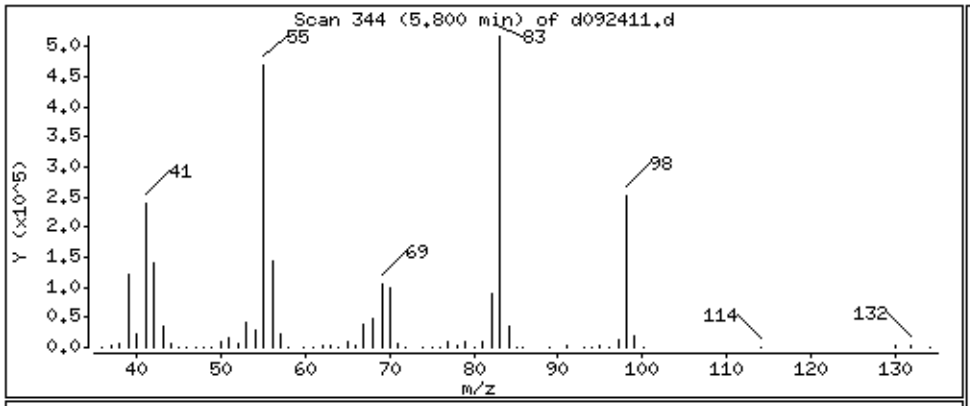
Operator: mtw

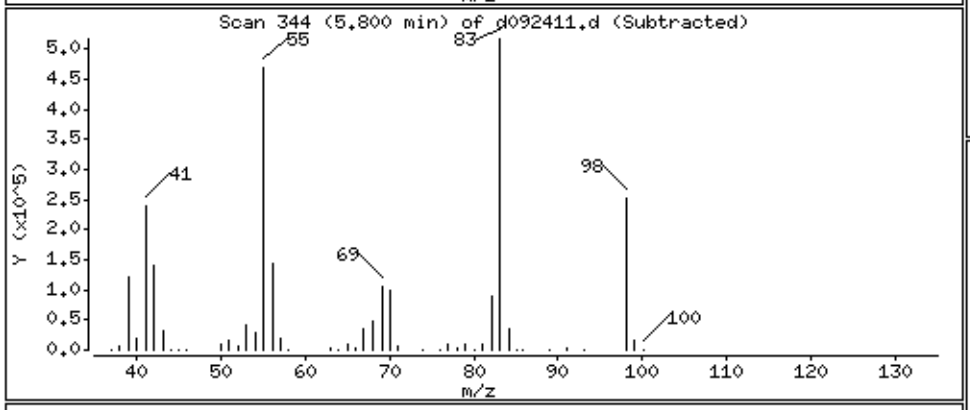
Column phase: RTx-624

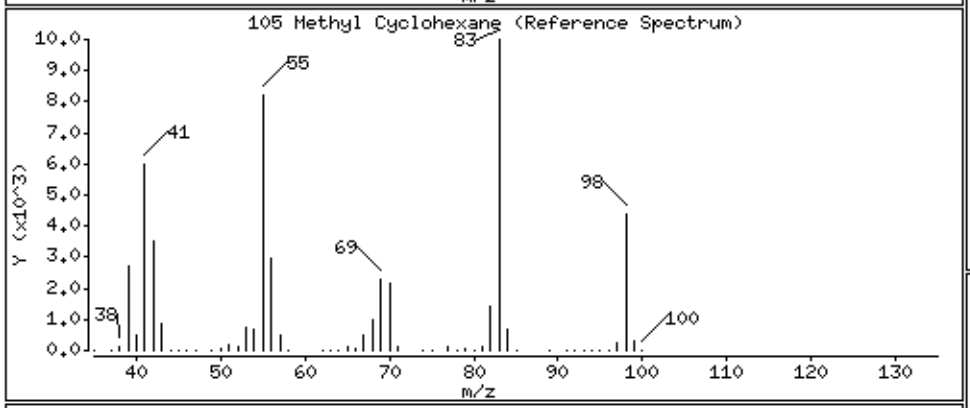
Column diameter: 0.53

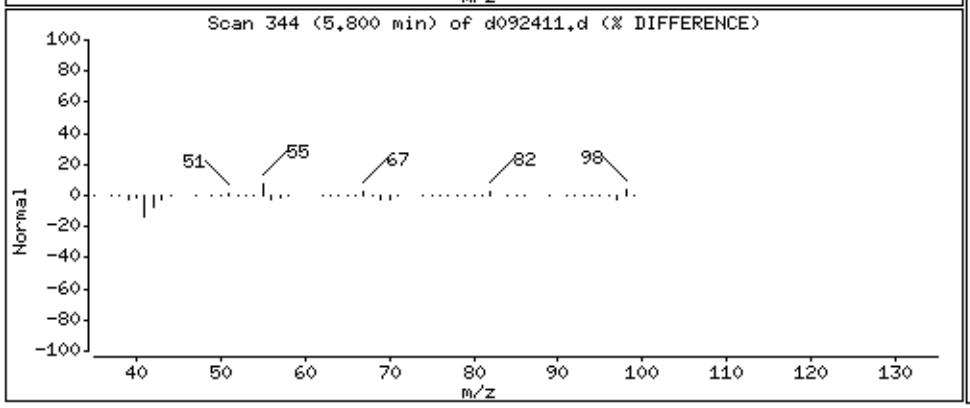
105 Methyl Cyclohexane

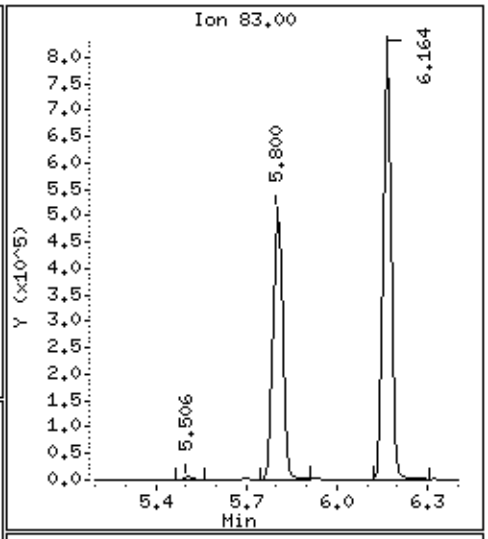
Concentration: 53.391 PPBV

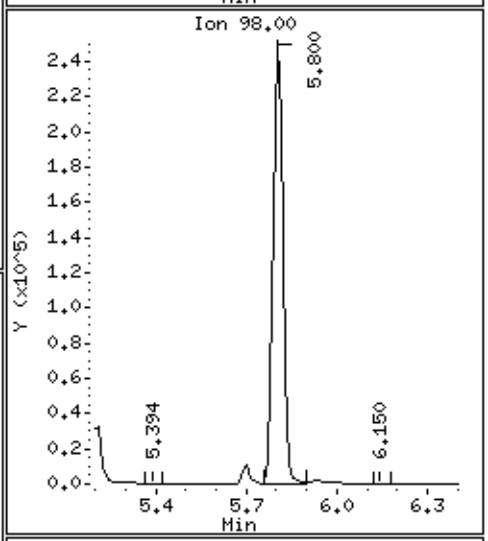


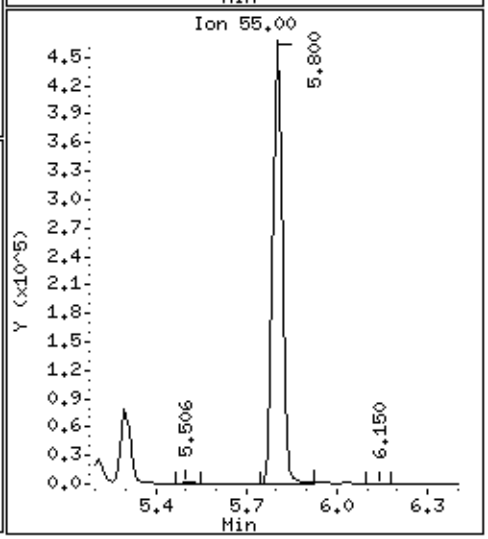












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

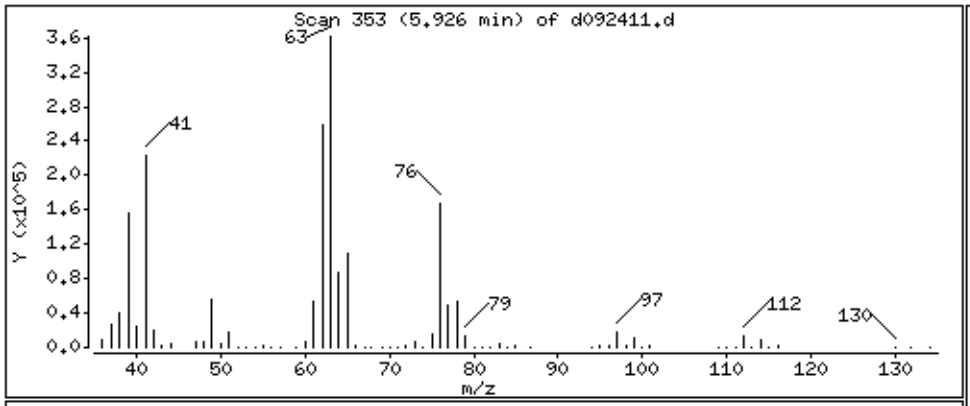
Operator: mtw

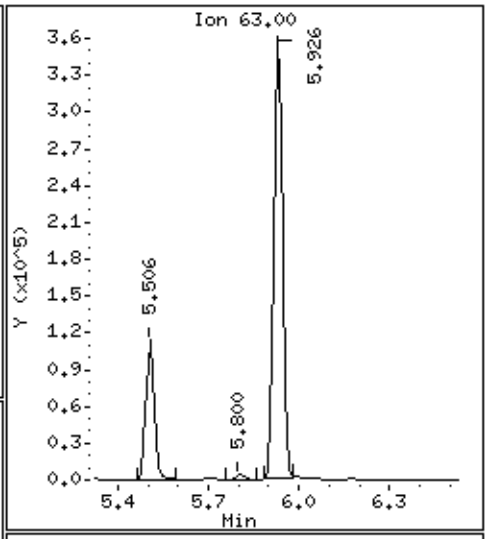
Column phase: RTx-624

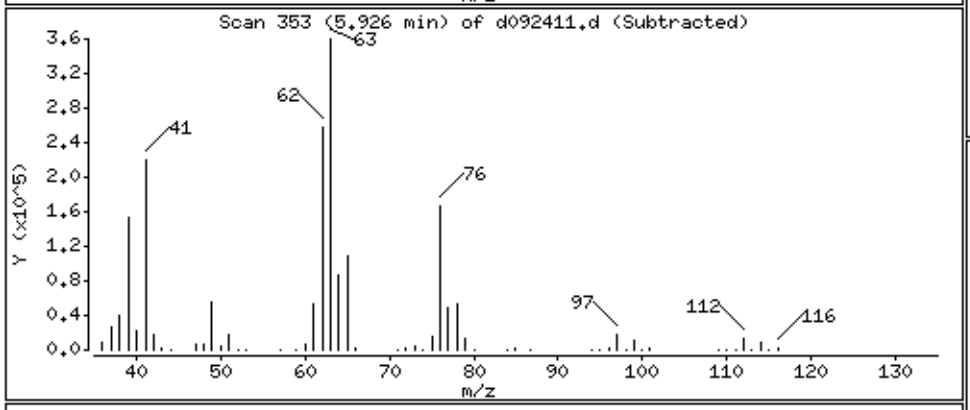
Column diameter: 0.53

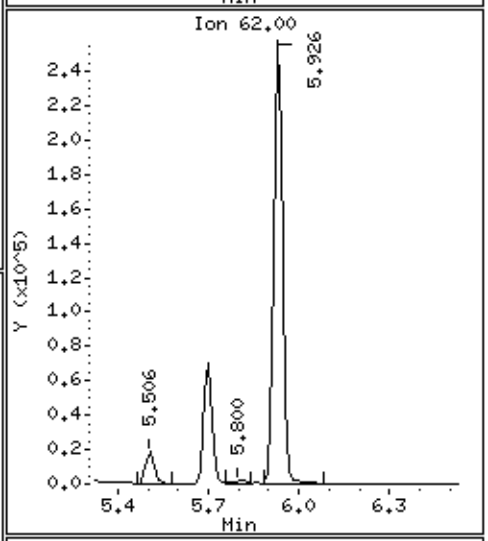
106 1,2-Dichloropropane

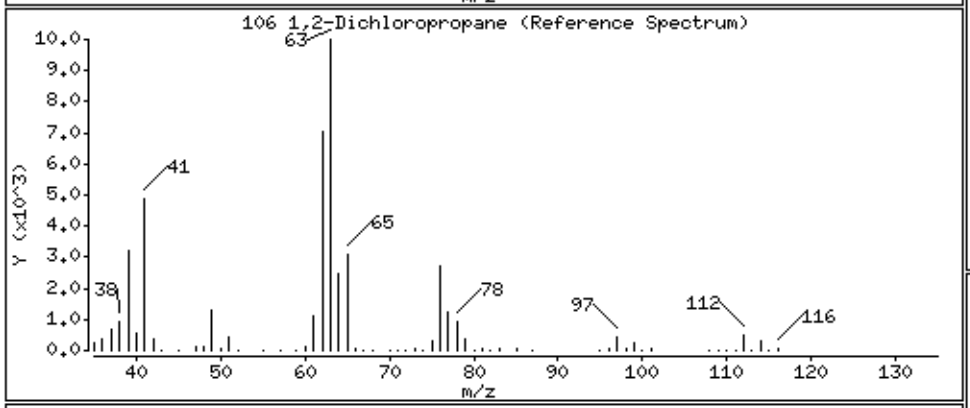
Concentration: 51.215 PPBV

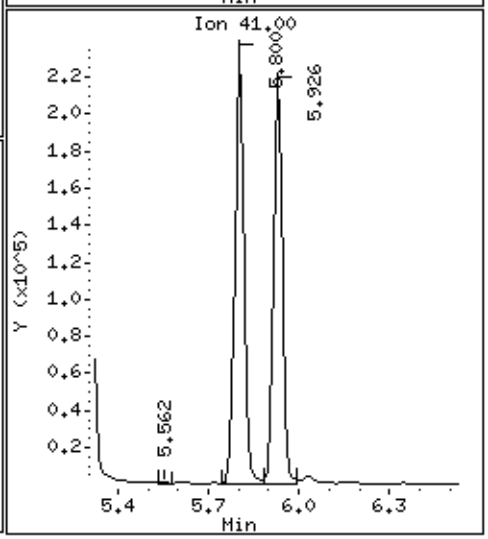


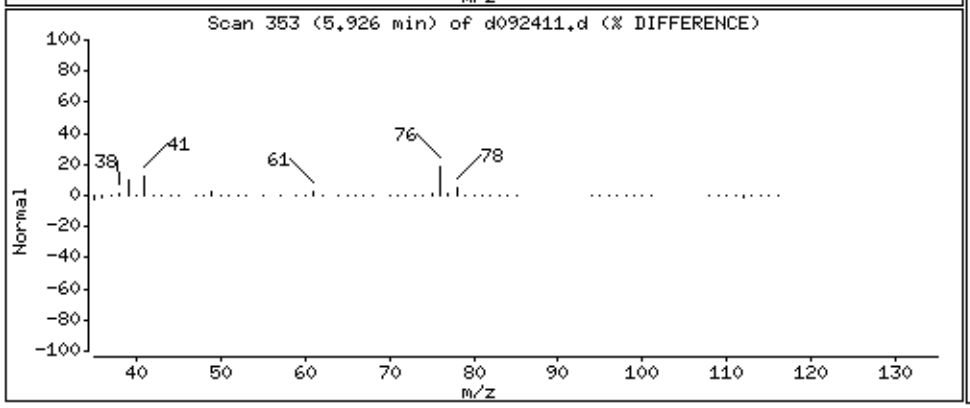












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

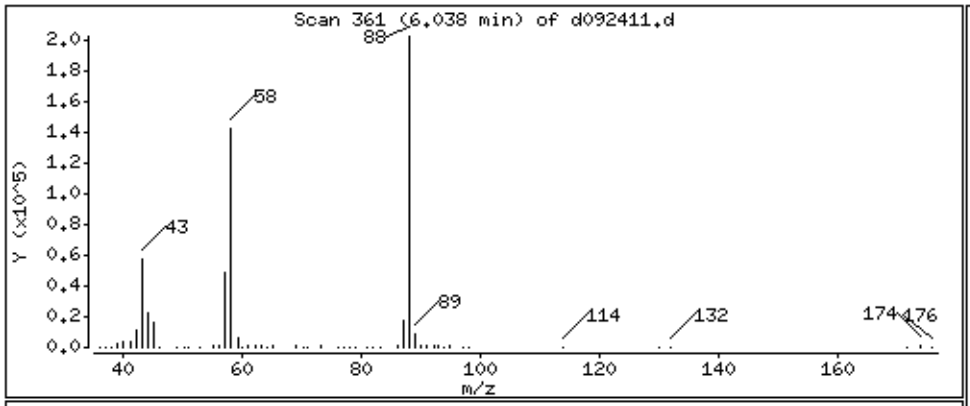
Operator: mtw

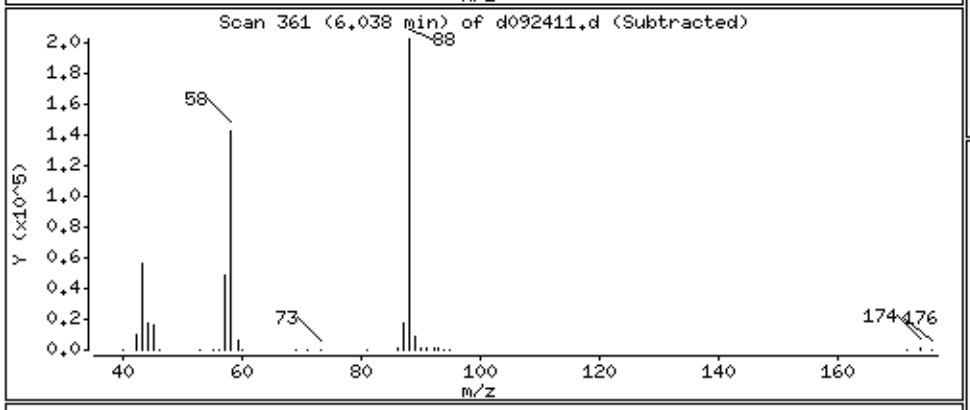
Column phase: RTx-624

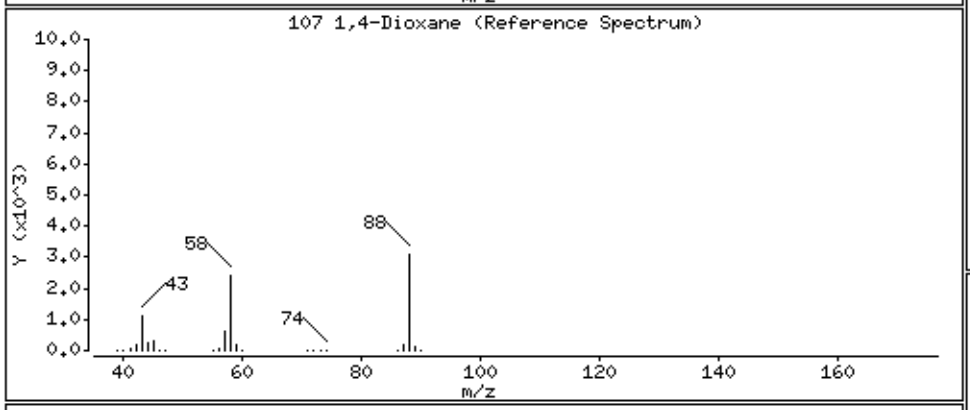
Column diameter: 0.53

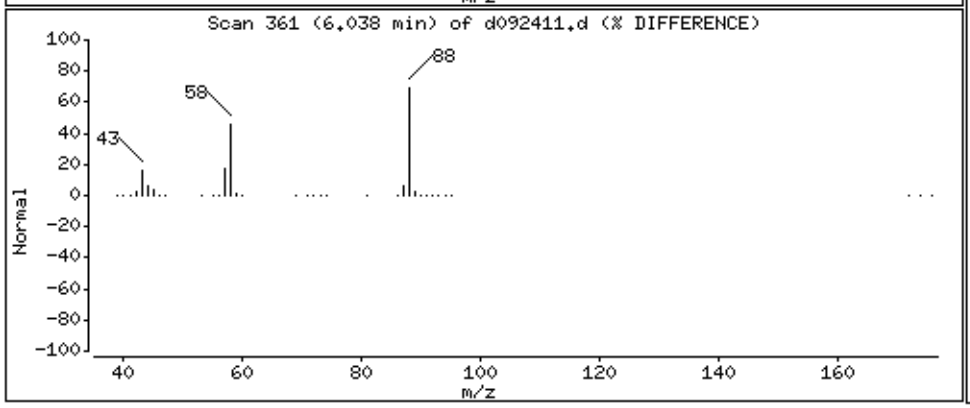
107 1,4-Dioxane

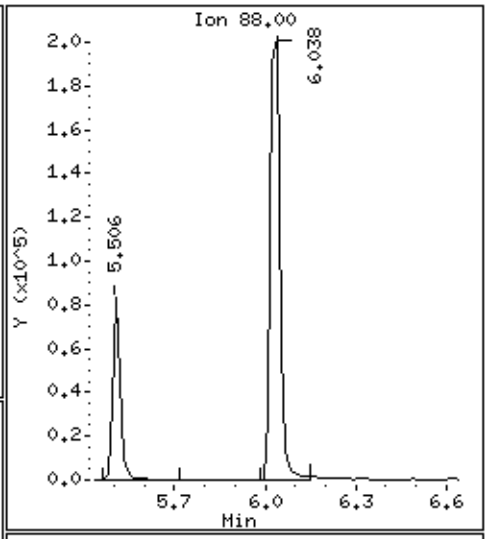
Concentration: 53.052 PPBV

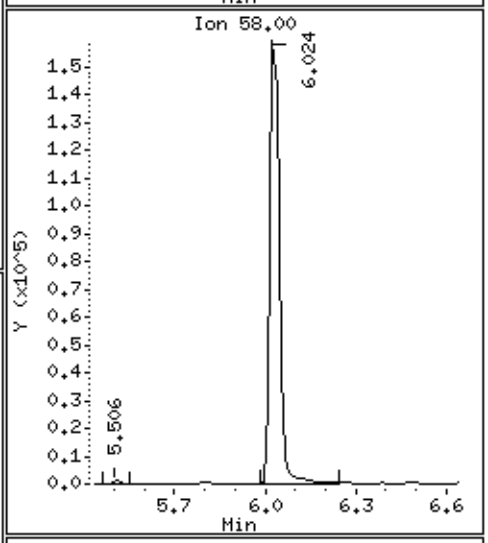


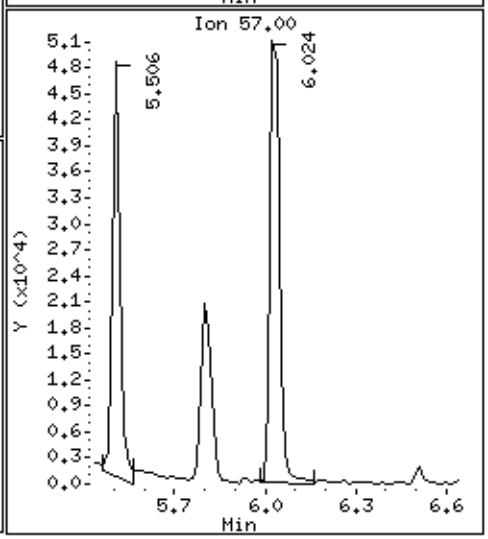












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

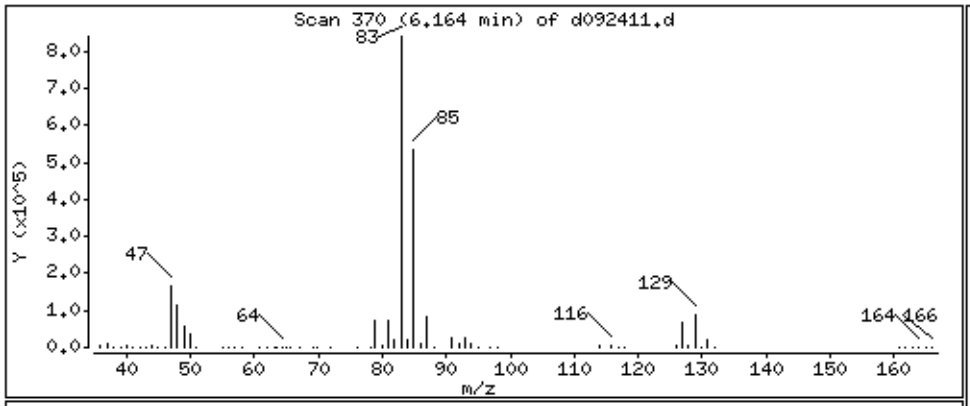
Operator: mtw

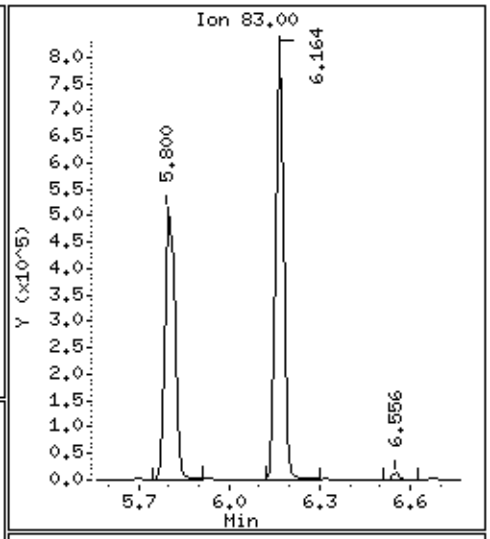
Column phase: RTx-624

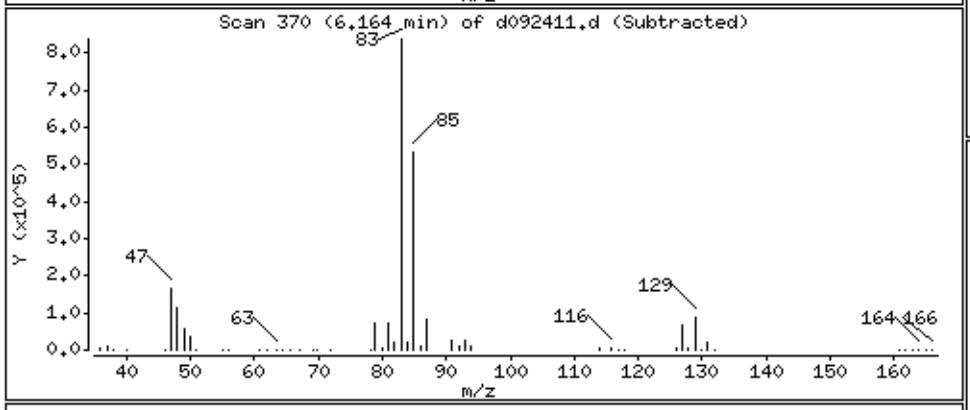
Column diameter: 0.53

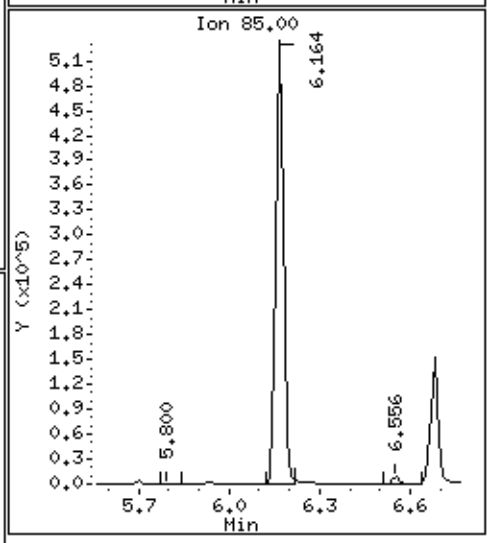
108 Bromodichloromethane

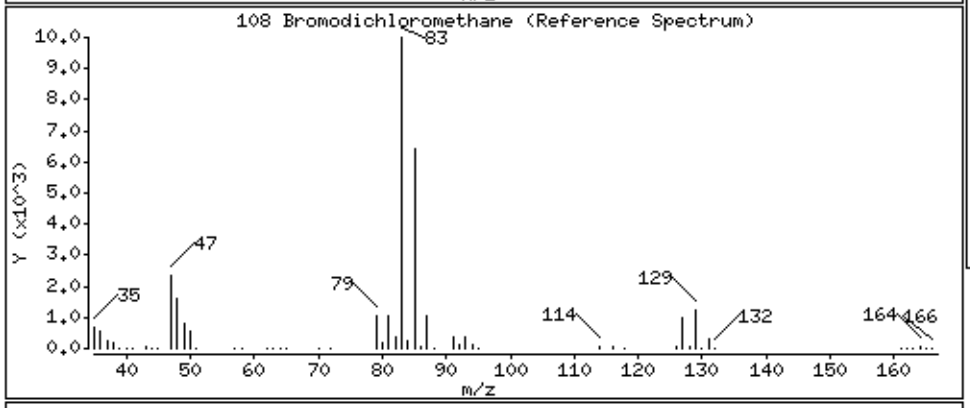
Concentration: 53.366 PPBV

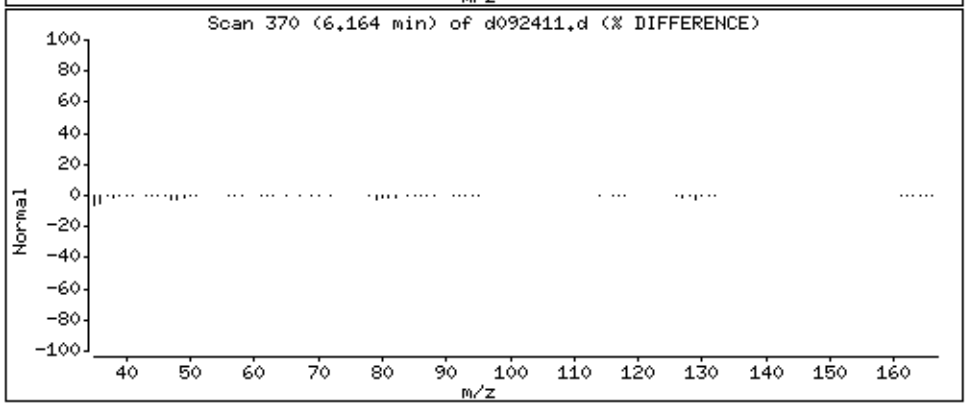












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

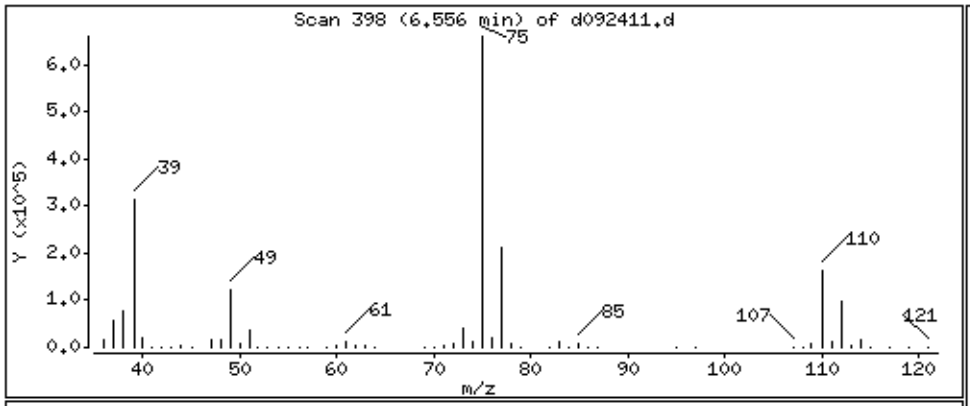
Operator: mtw

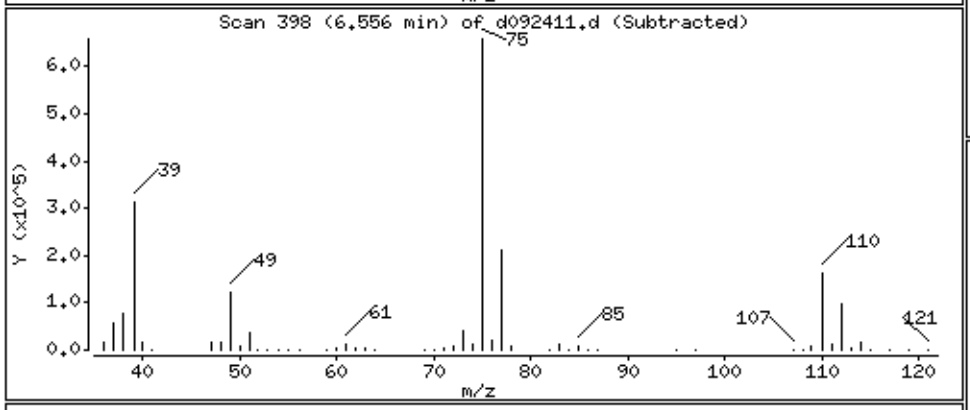
Column phase: RTx-624

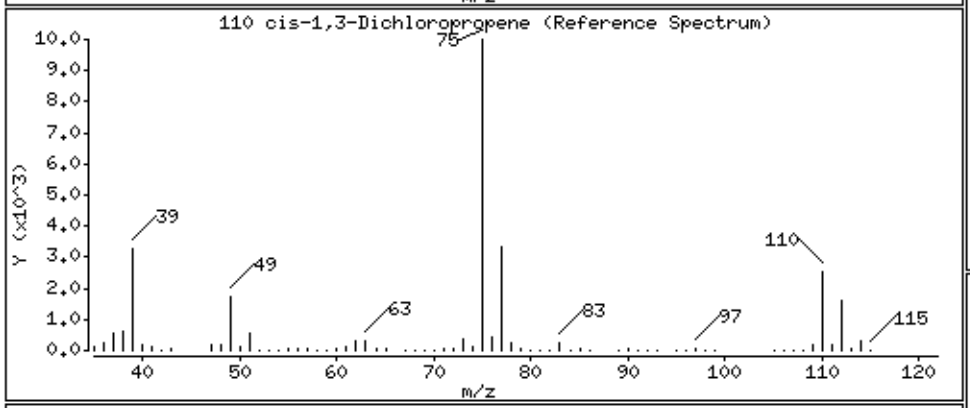
Column diameter: 0.53

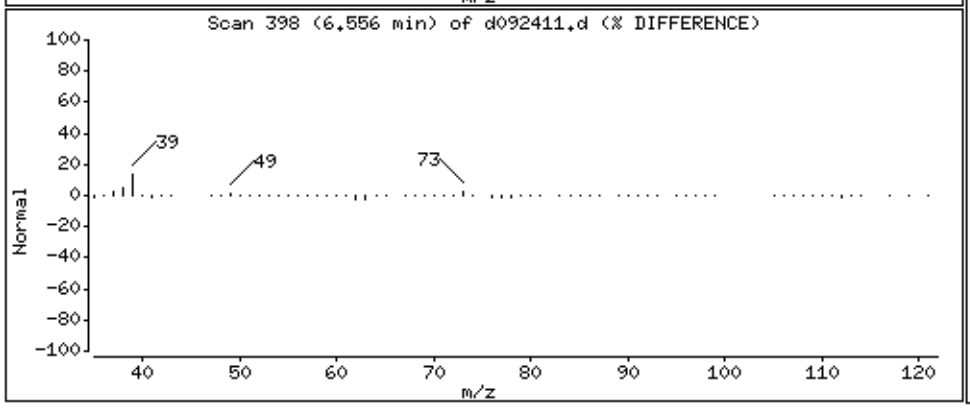
110 cis-1,3-Dichloropropene

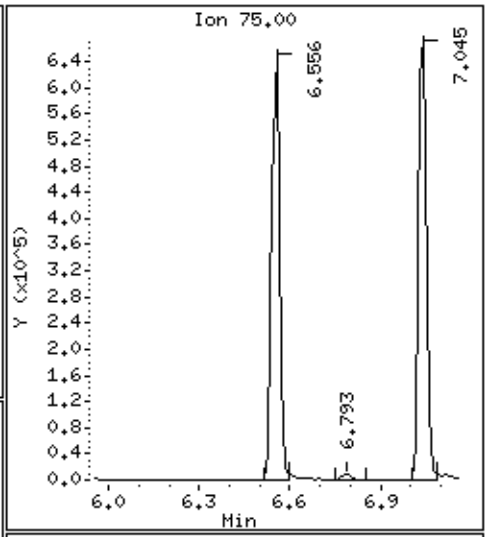
Concentration: 53.511 PPBV

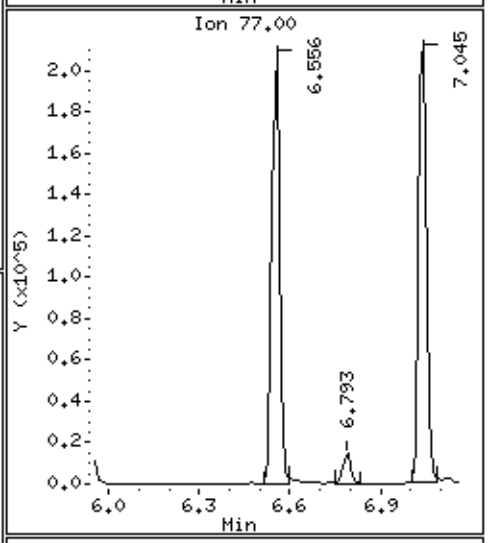


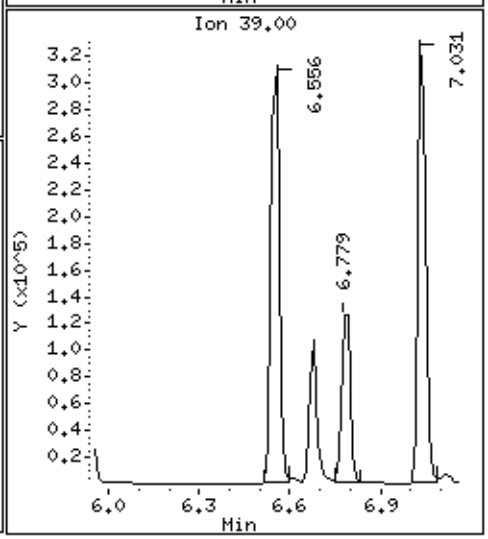












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

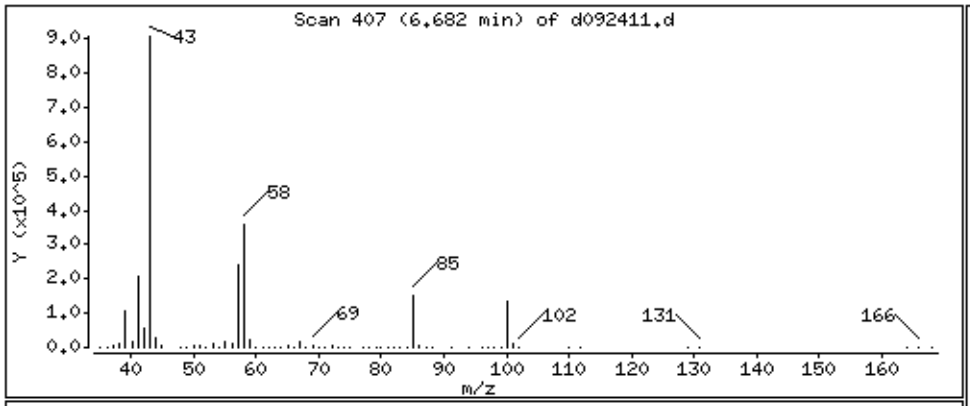
Operator: mtw

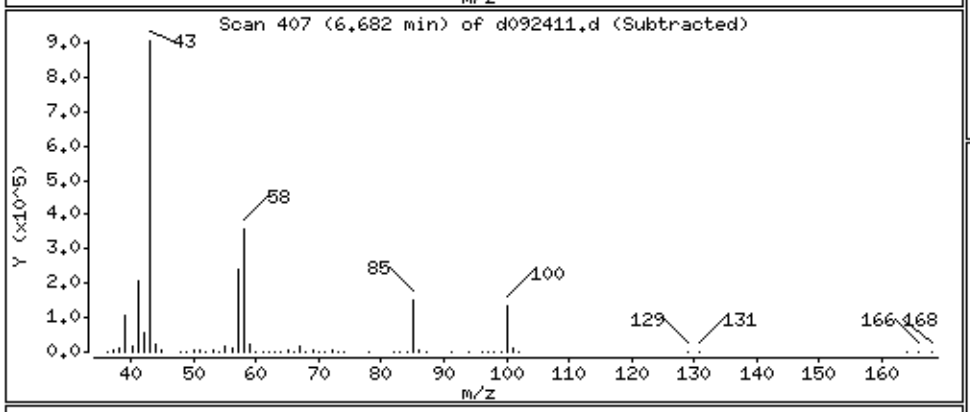
Column phase: RTx-624

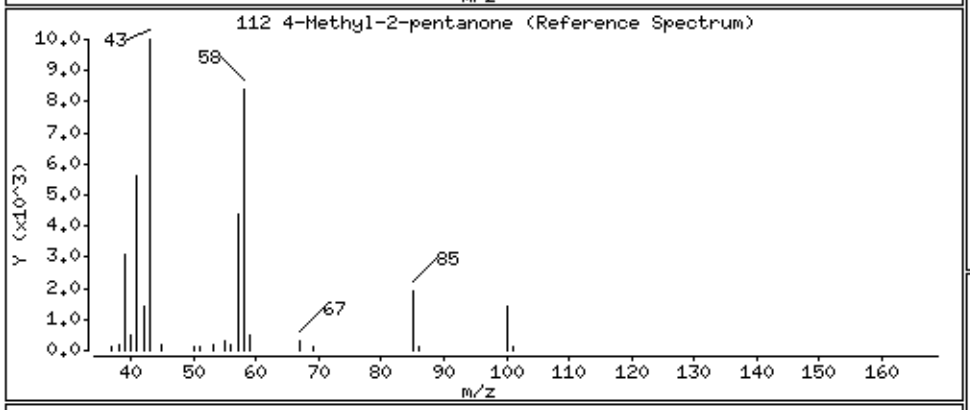
Column diameter: 0.53

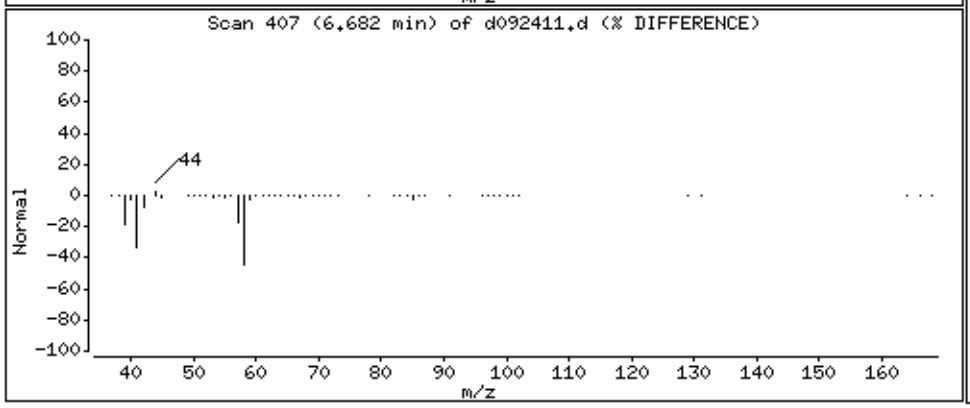
112 4-Methyl-2-pentanone

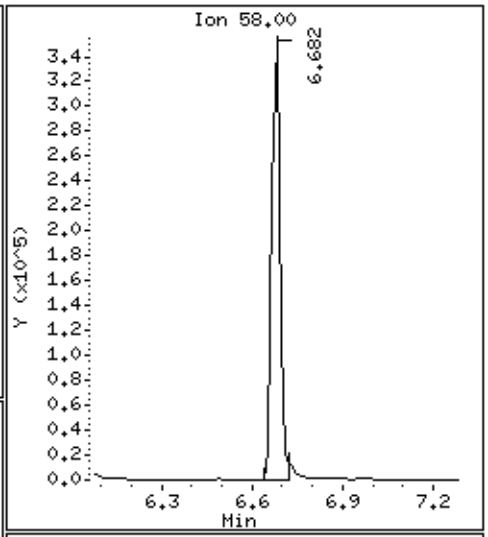
Concentration: 52.838 PPBV

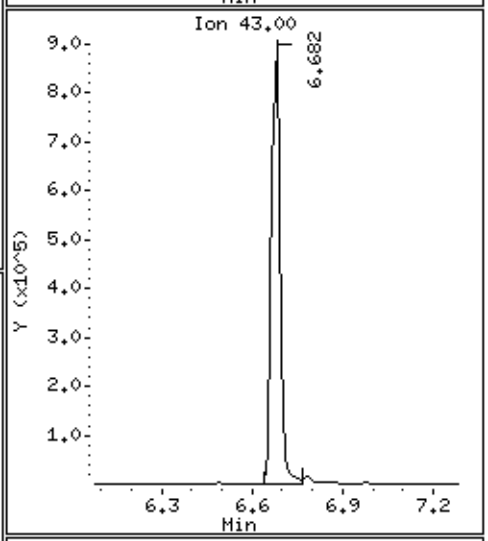


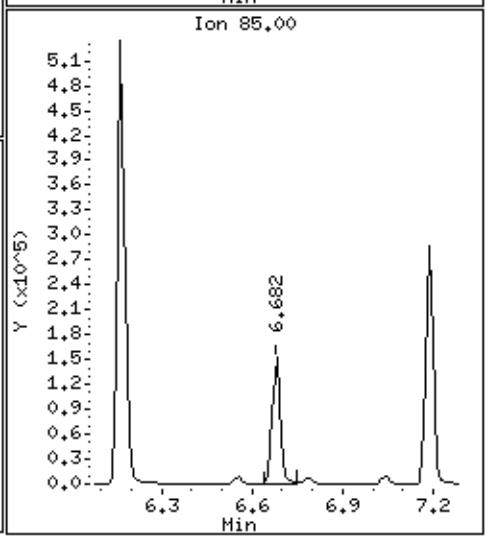












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

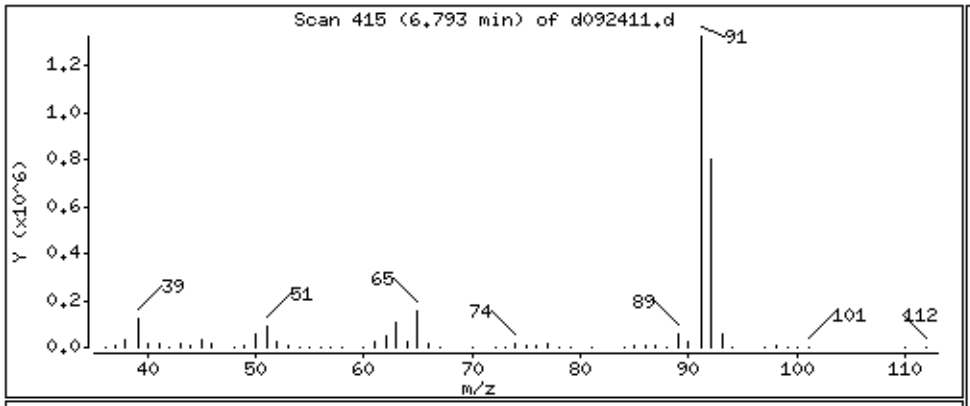
Operator: mtw

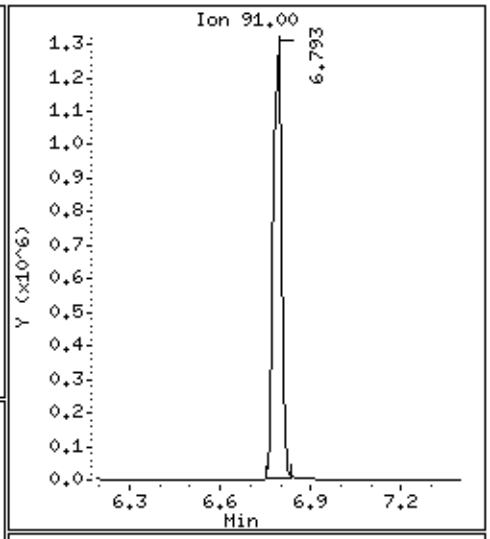
Column phase: RTx-624

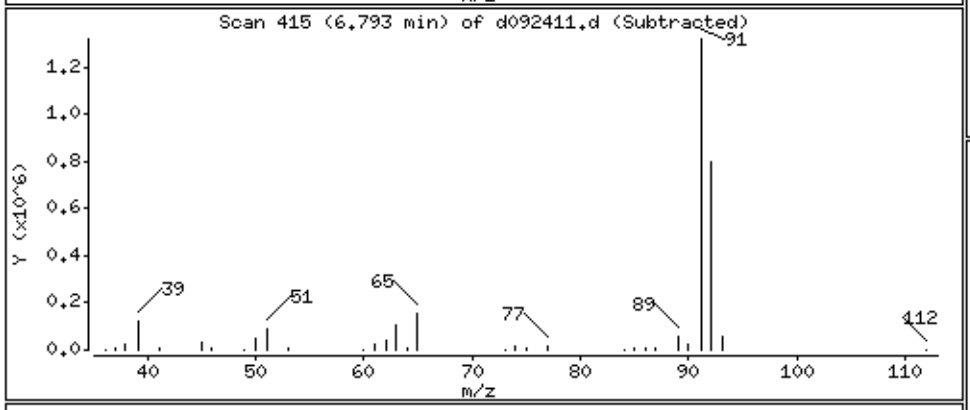
Column diameter: 0.53

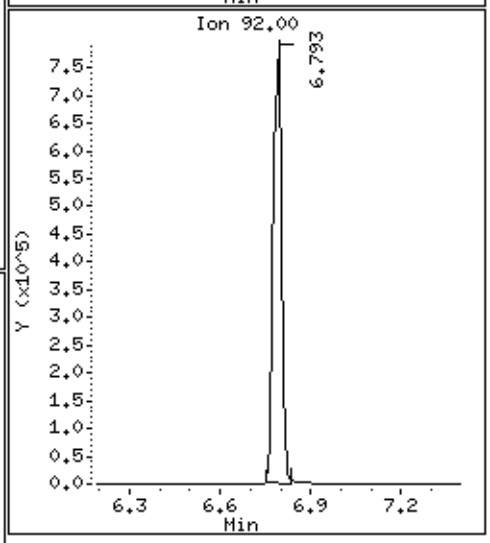
115 Toluene

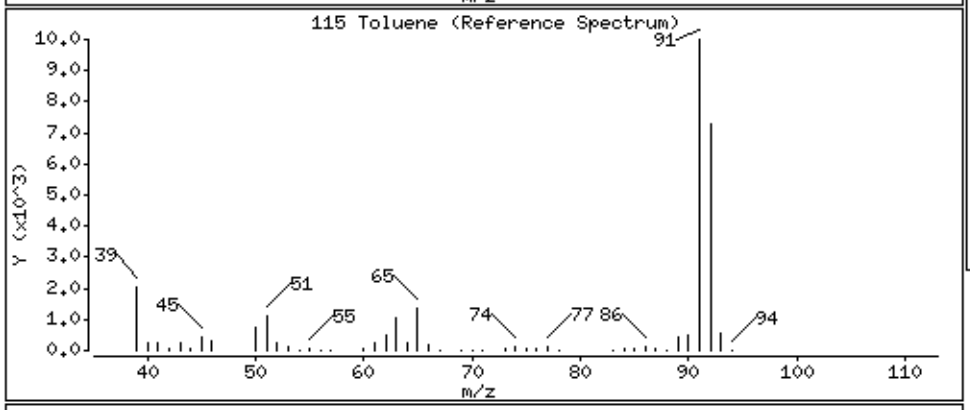
Concentration: 49.808 PPBV

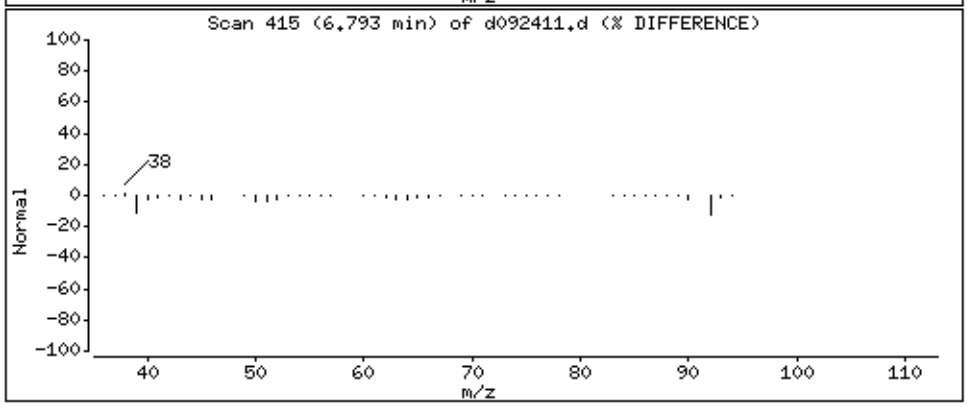












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

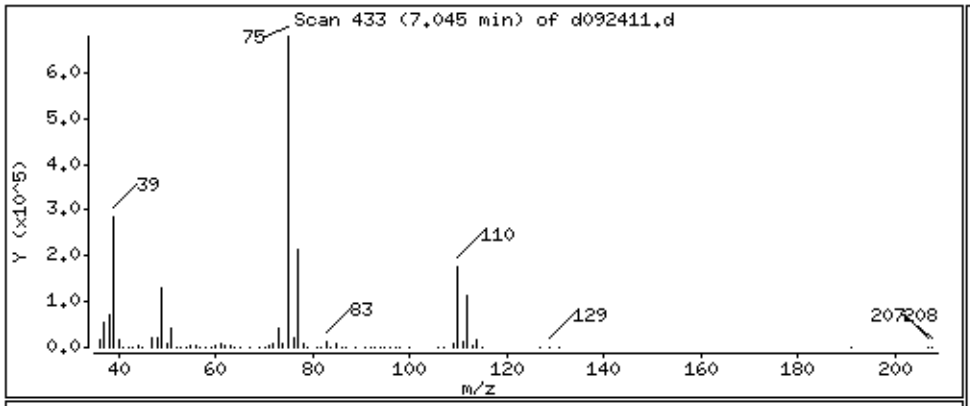
Operator: mtw

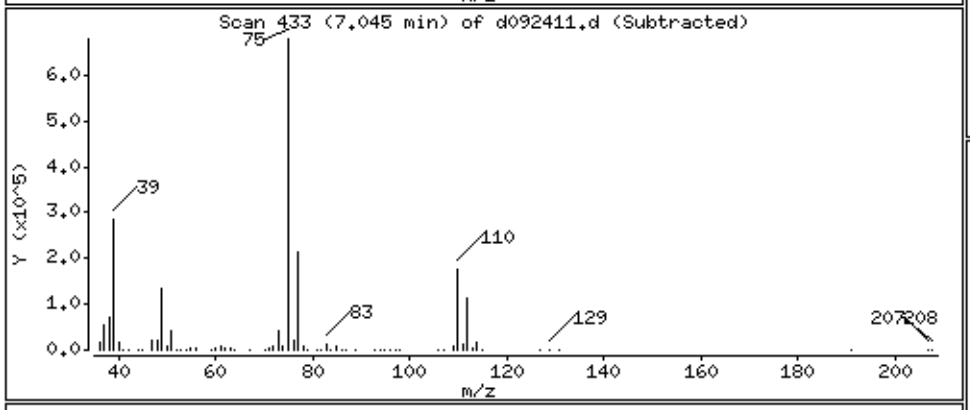
Column phase: RTx-624

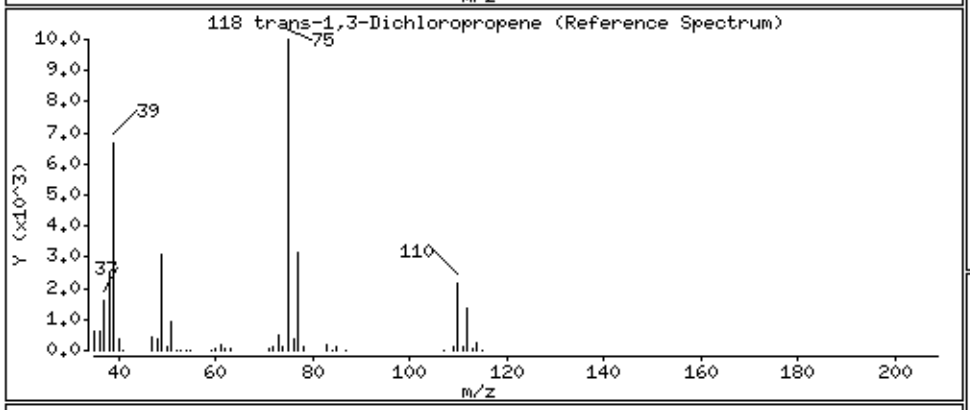
Column diameter: 0.53

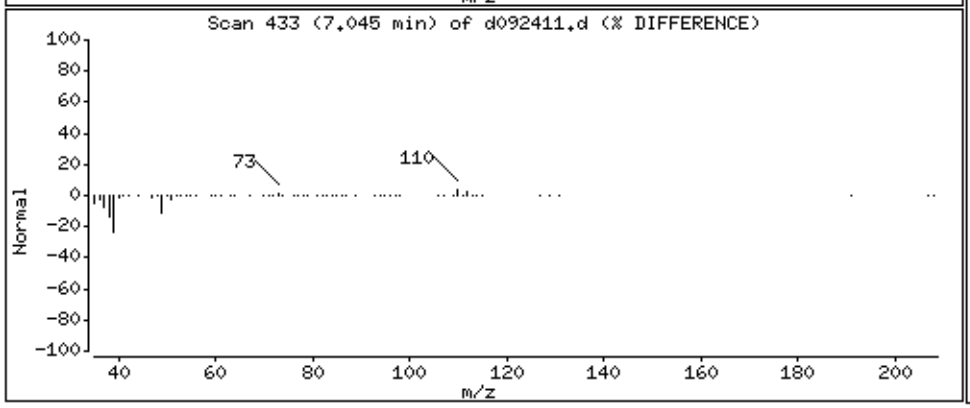
118 trans-1,3-Dichloropropene

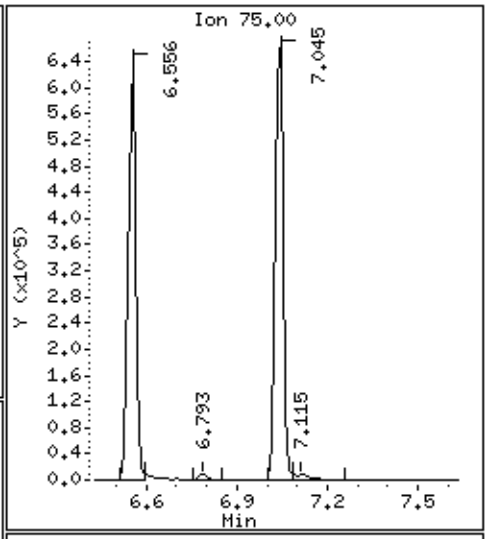
Concentration: 52.549 PPBV

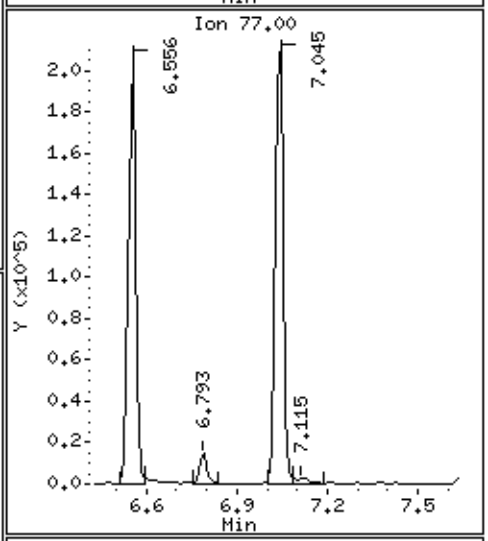


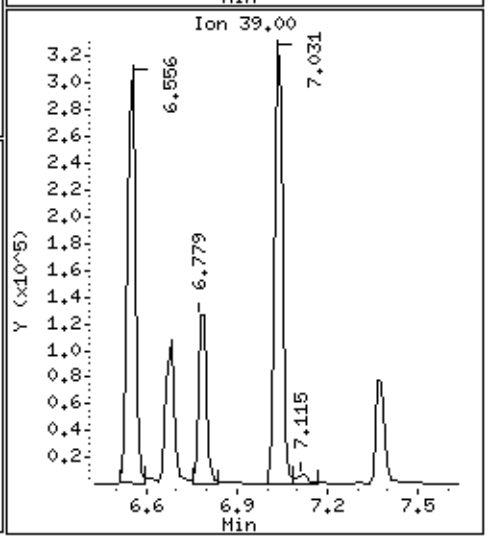












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

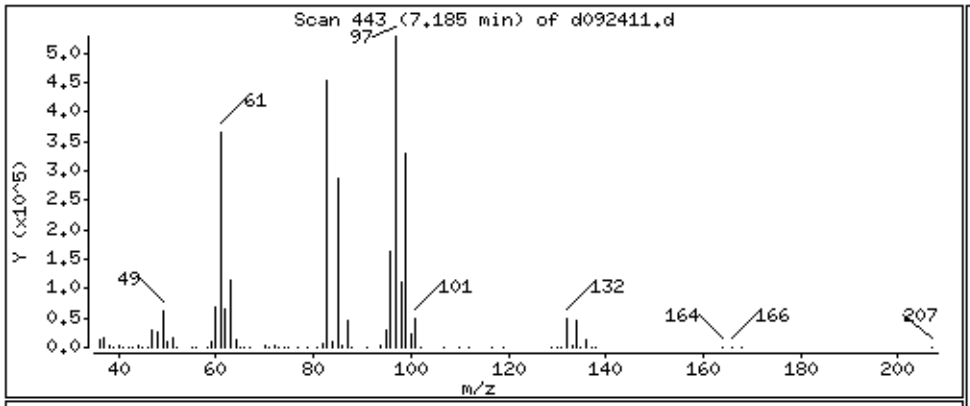
Operator: mtw

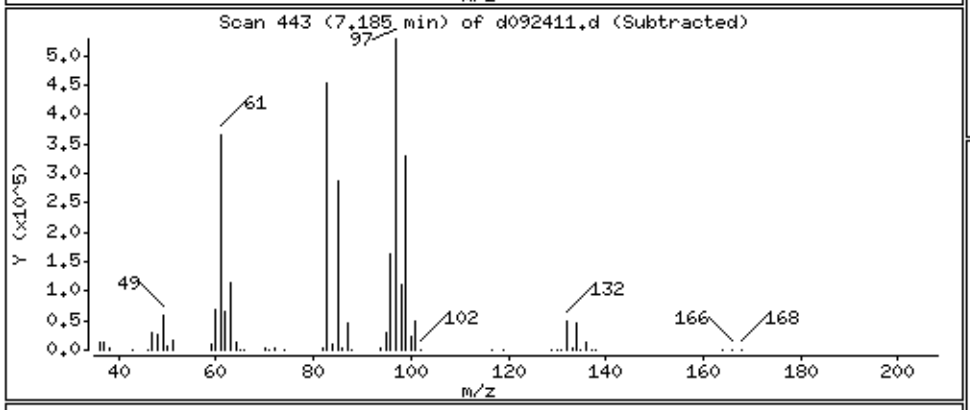
Column phase: RTx-624

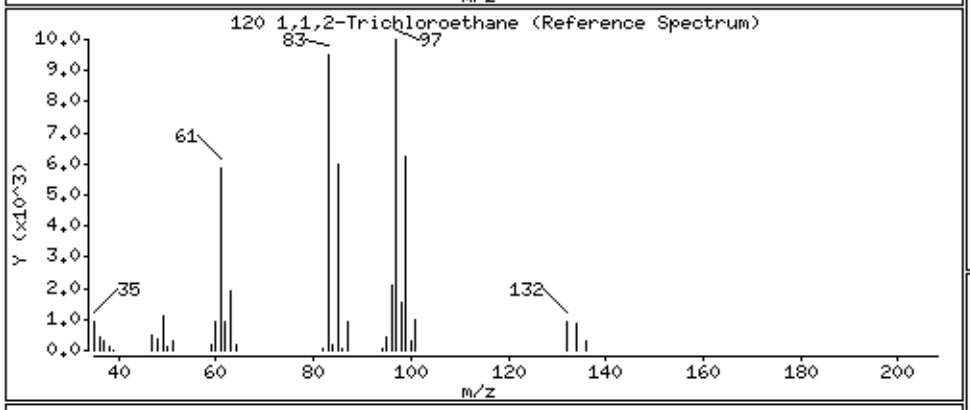
Column diameter: 0.53

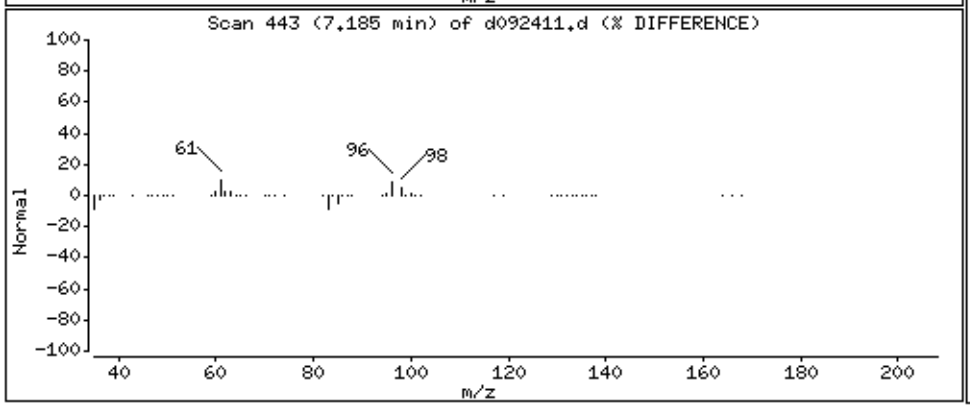
120 1,1,2-Trichloroethane

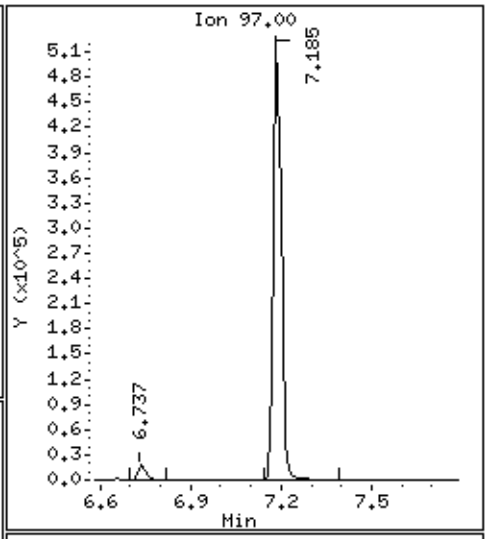
Concentration: 52.626 PPBV

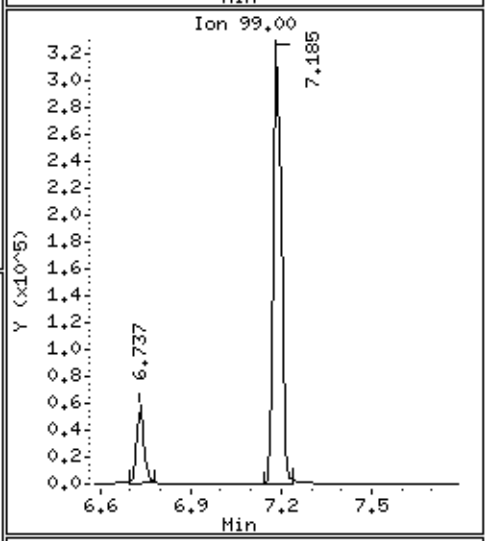


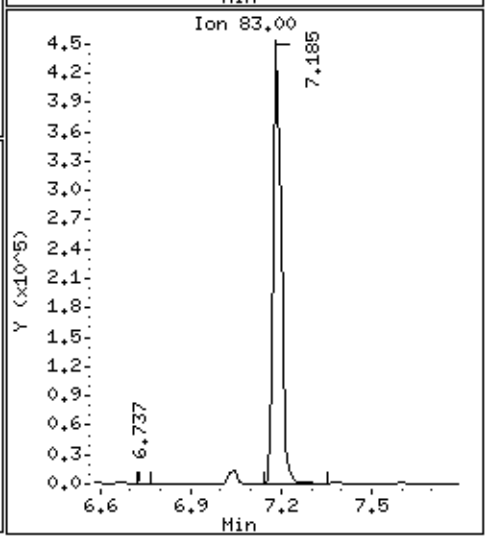












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

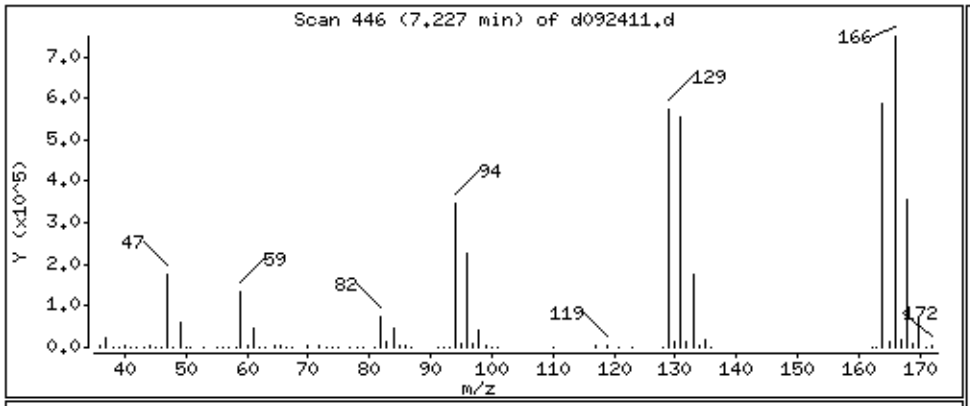
Operator: mtw

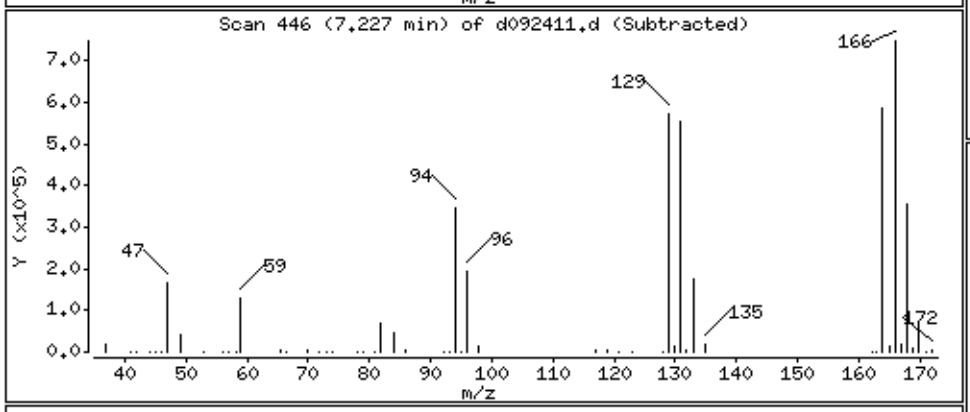
Column phase: RTx-624

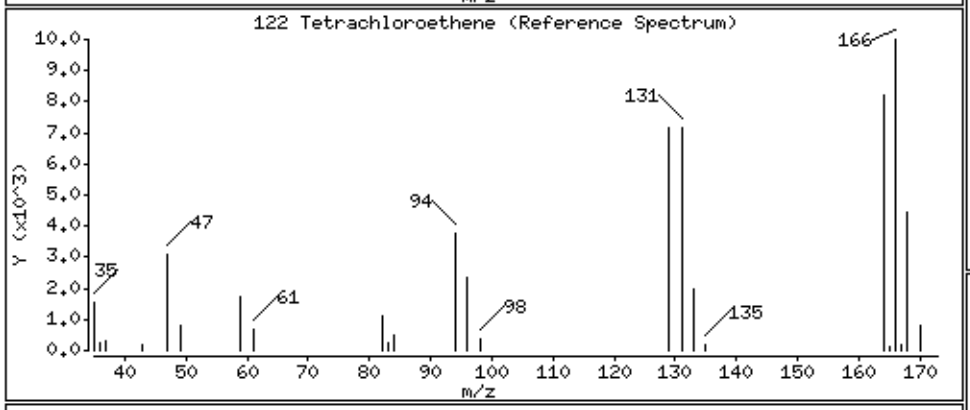
Column diameter: 0.53

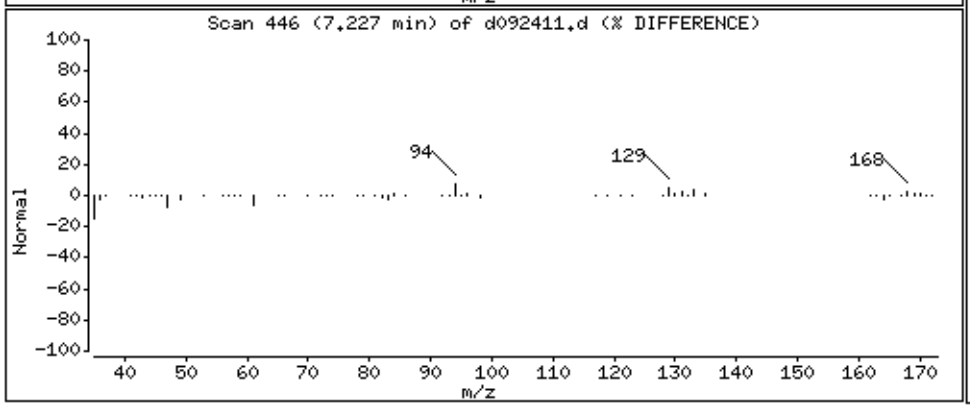
122 Tetrachloroethene

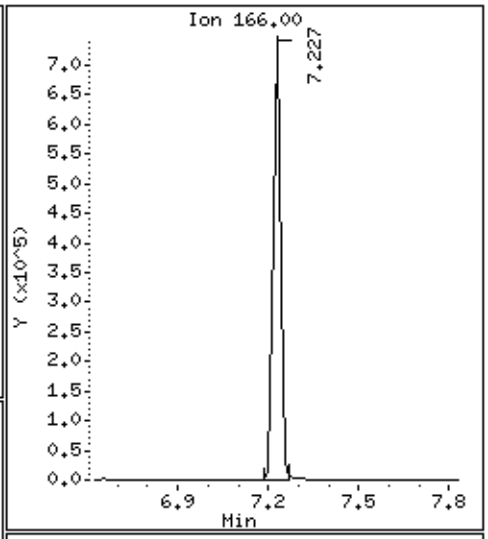
Concentration: 51.299 PPBV

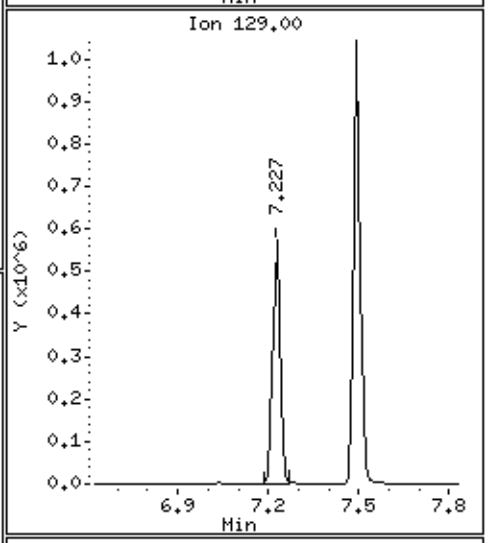


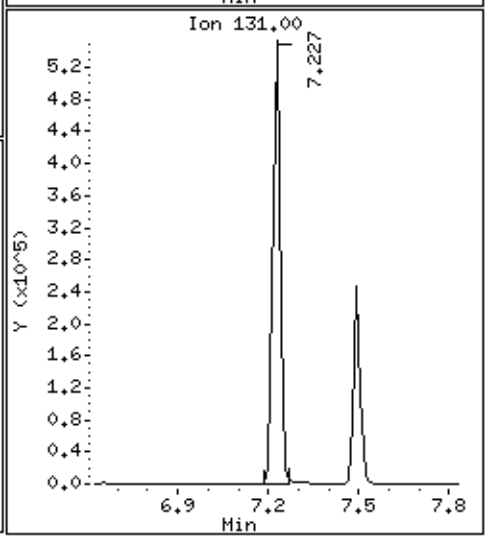












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

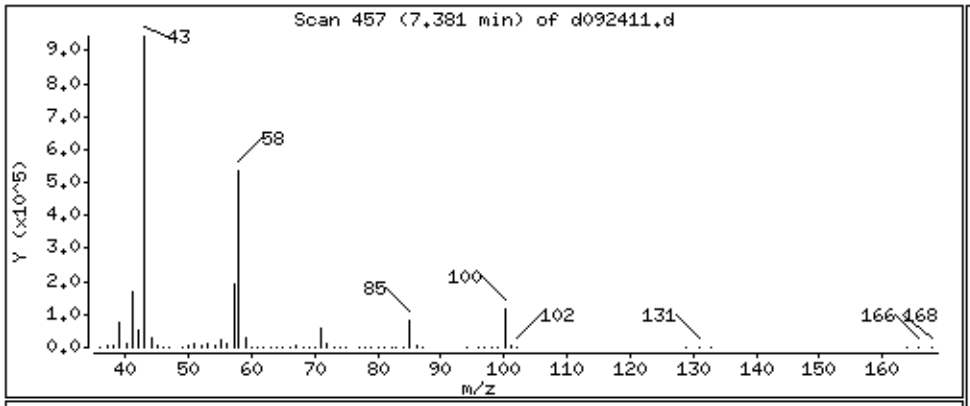
Operator: mtw

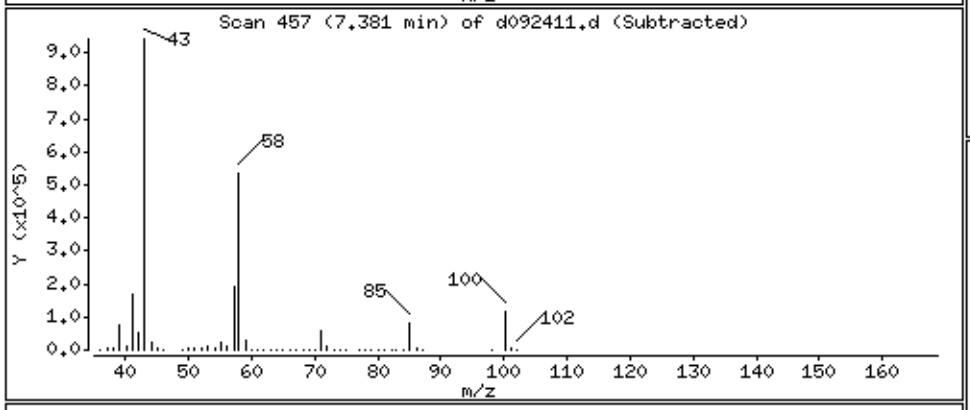
Column phase: RTx-624

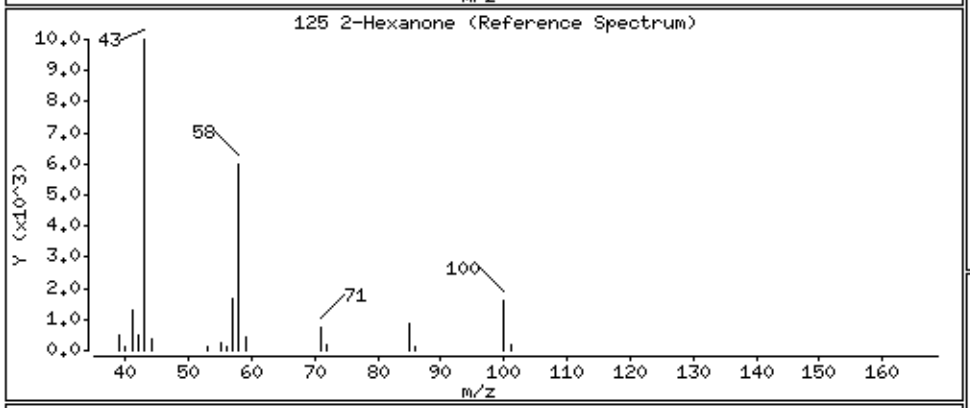
Column diameter: 0.53

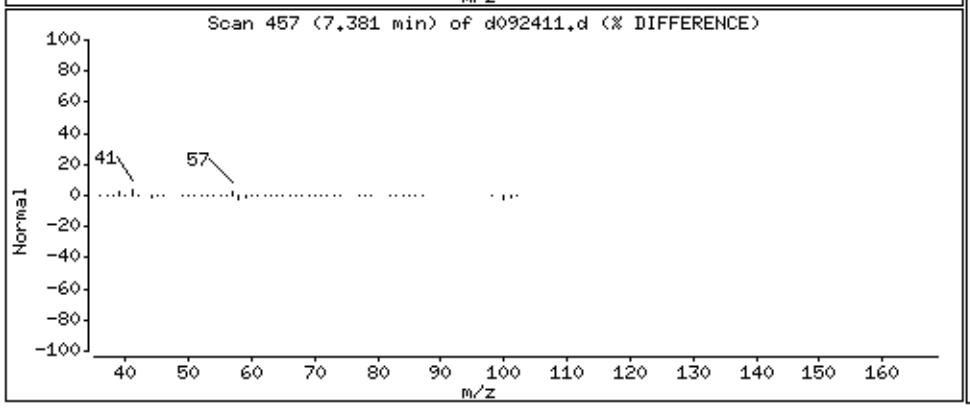
125 2-Hexanone

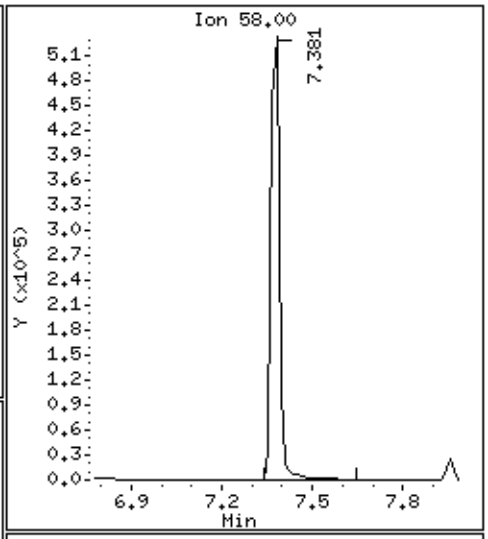
Concentration: 53.406 PPBV

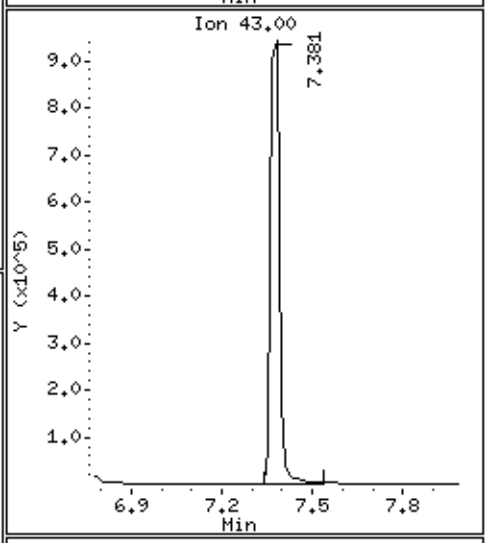


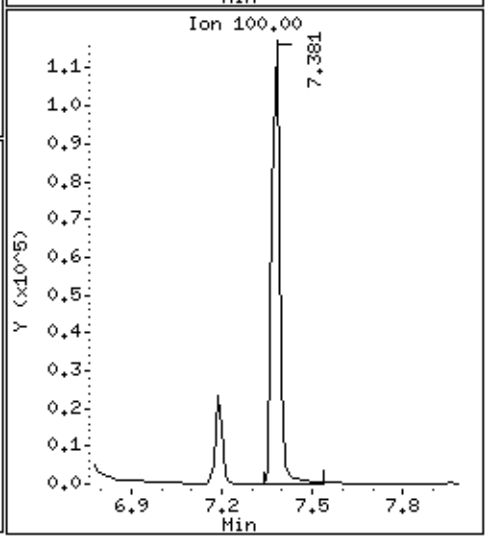












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

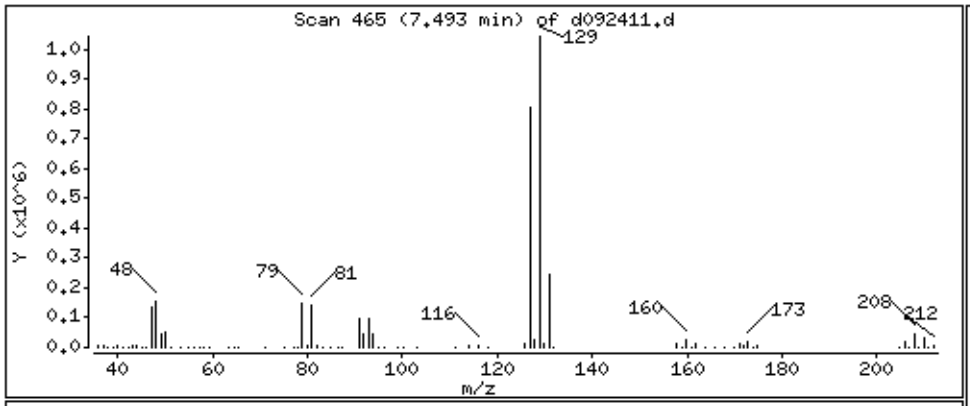
Operator: mtw

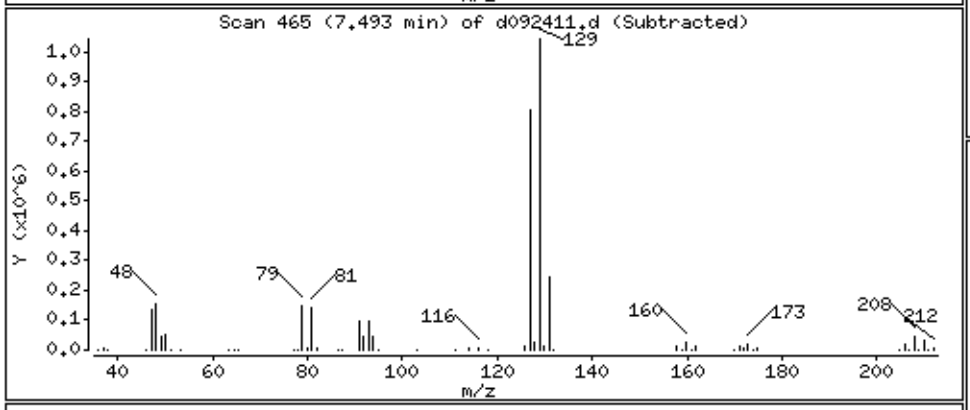
Column phase: RTx-624

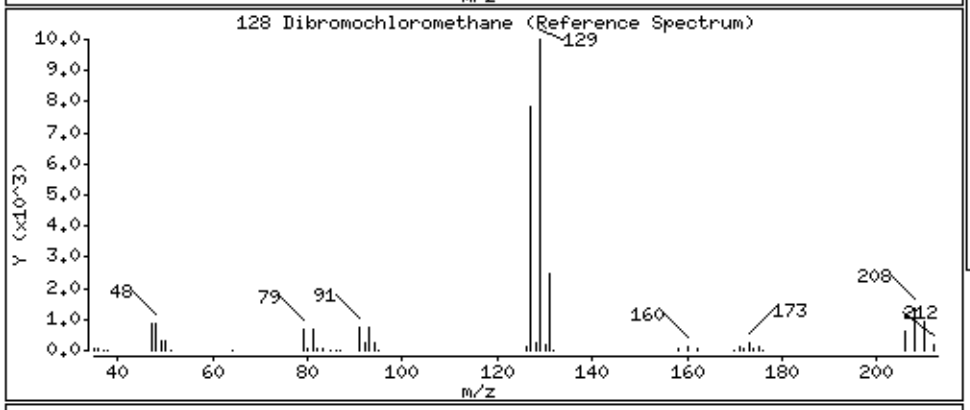
Column diameter: 0.53

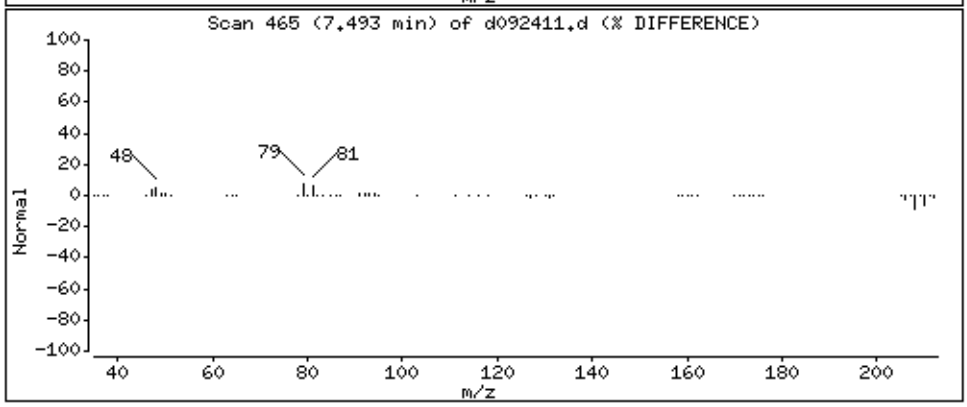
128 Dibromochloromethane

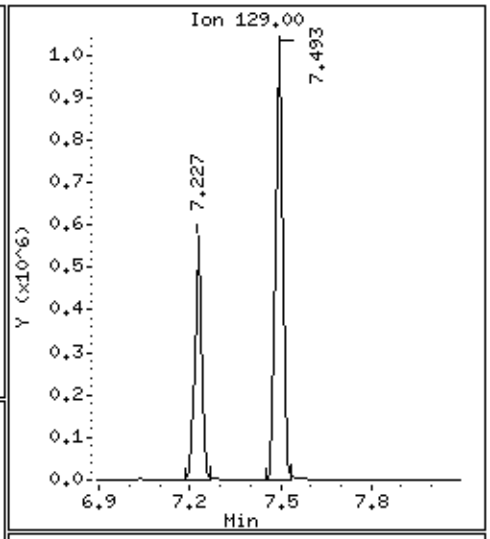
Concentration: 53.288 PPBV

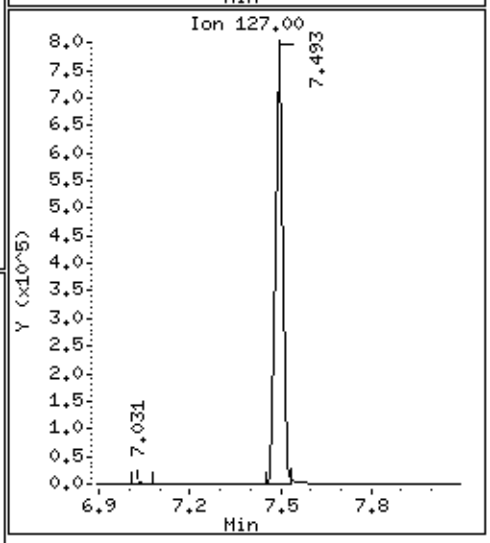












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

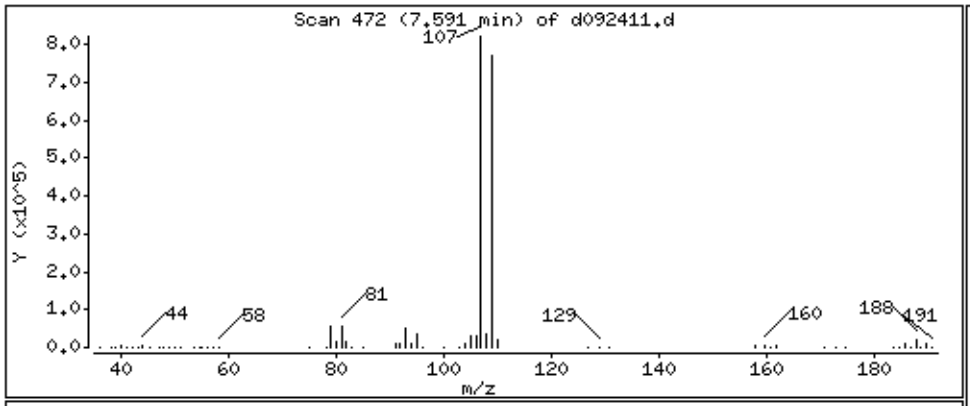
Operator: mtw

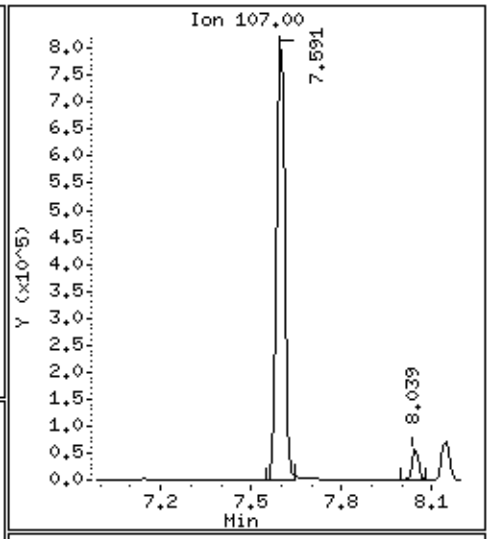
Column phase: RTx-624

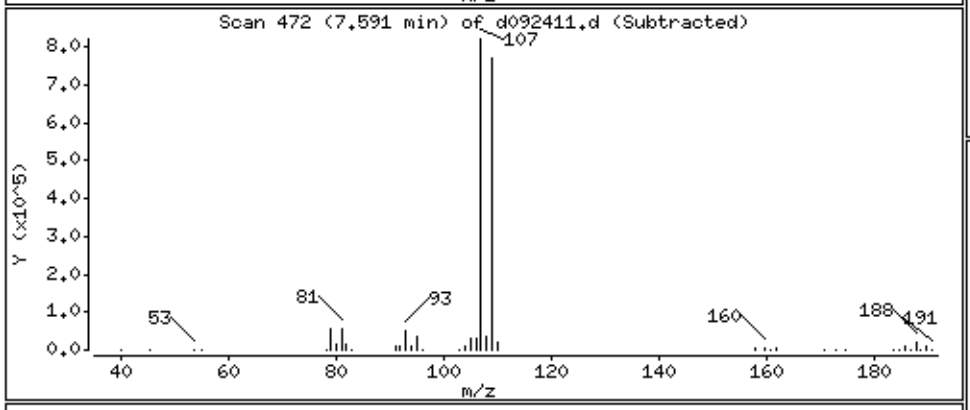
Column diameter: 0.53

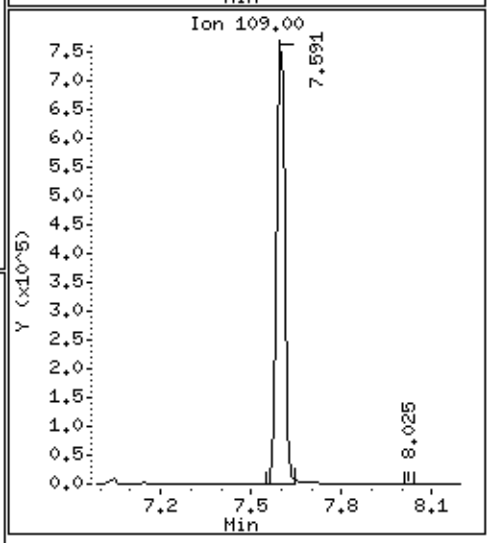
130 1,2-Dibromoethane

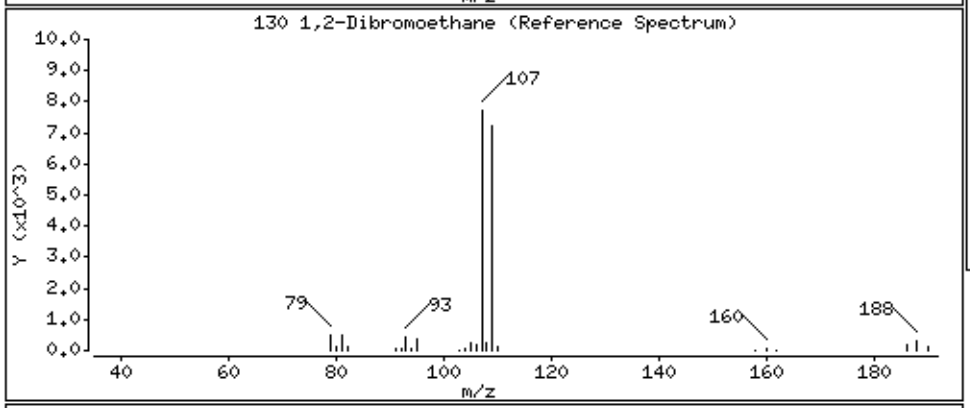
Concentration: 55.204 PPBV

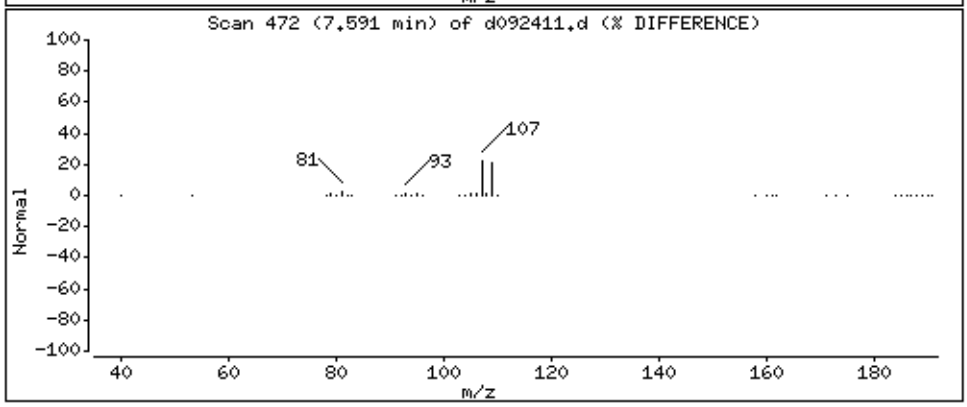












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

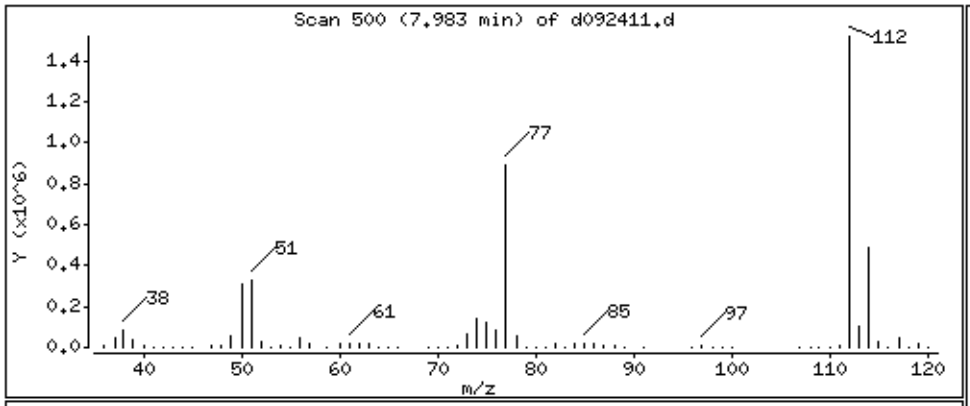
Operator: mtw

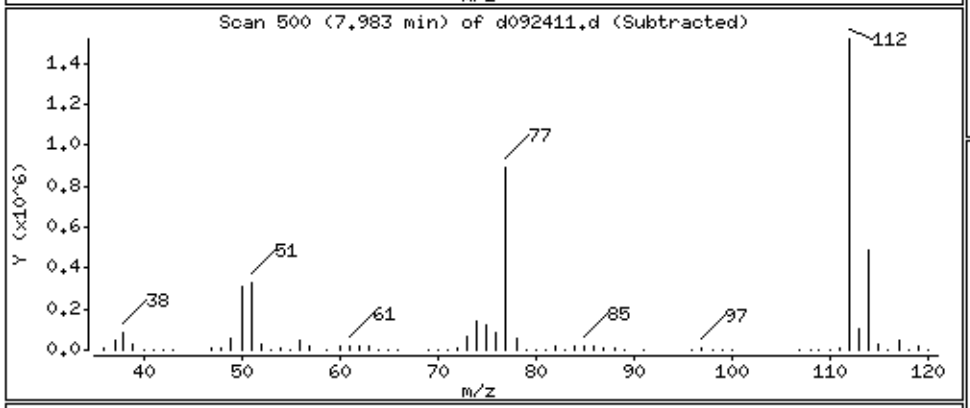
Column phase: RTx-624

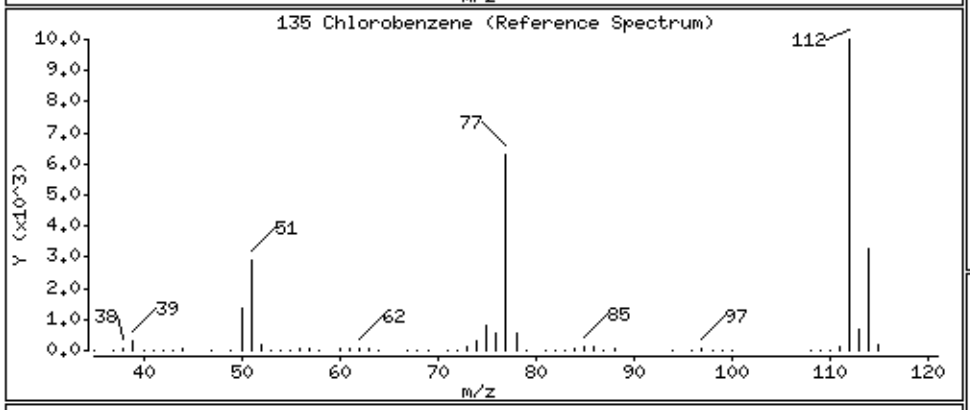
Column diameter: 0.53

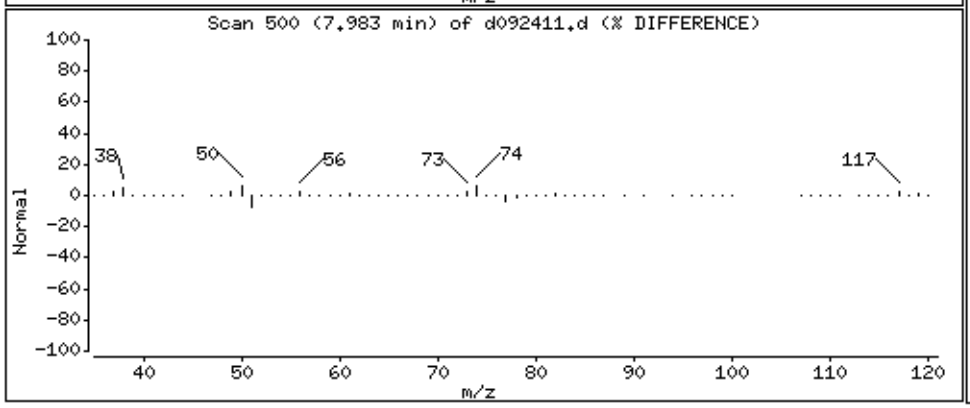
135 Chlorobenzene

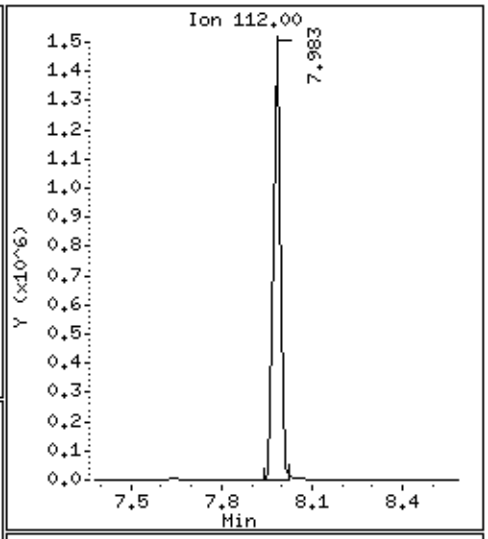
Concentration: 47.592 PPBV

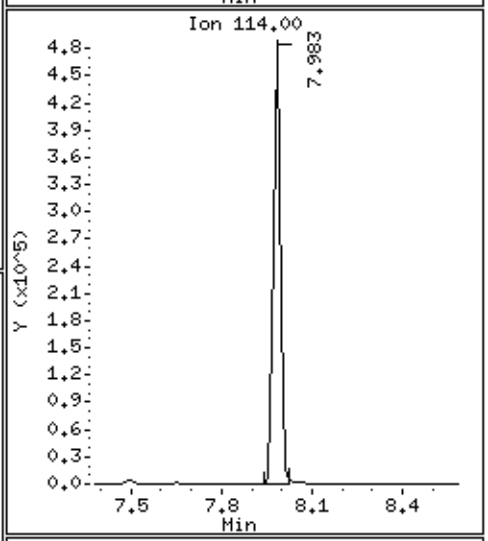


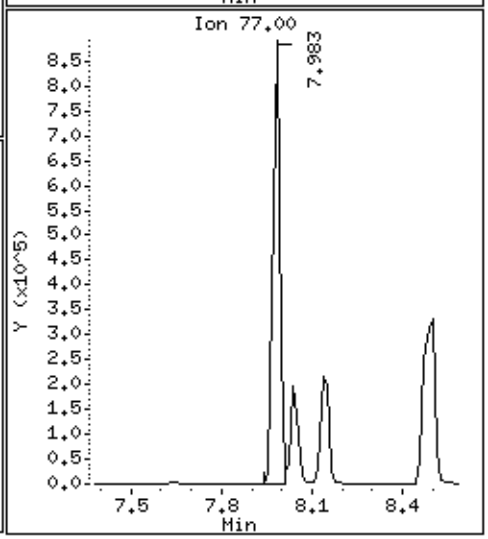












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

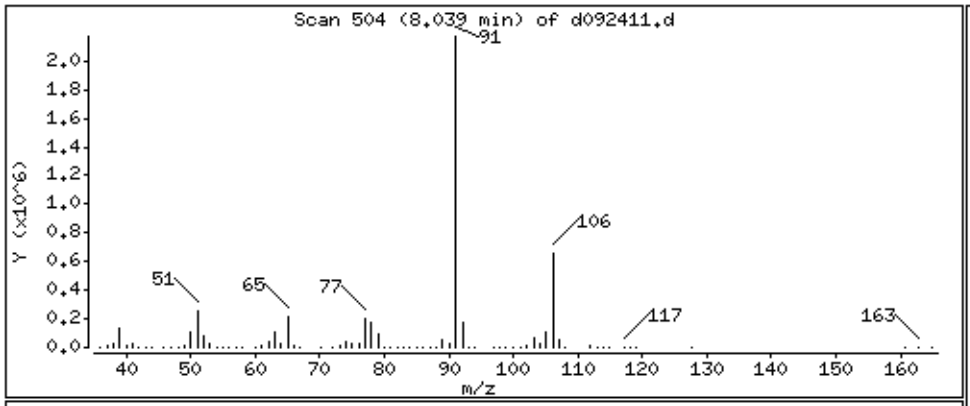
Operator: mtw

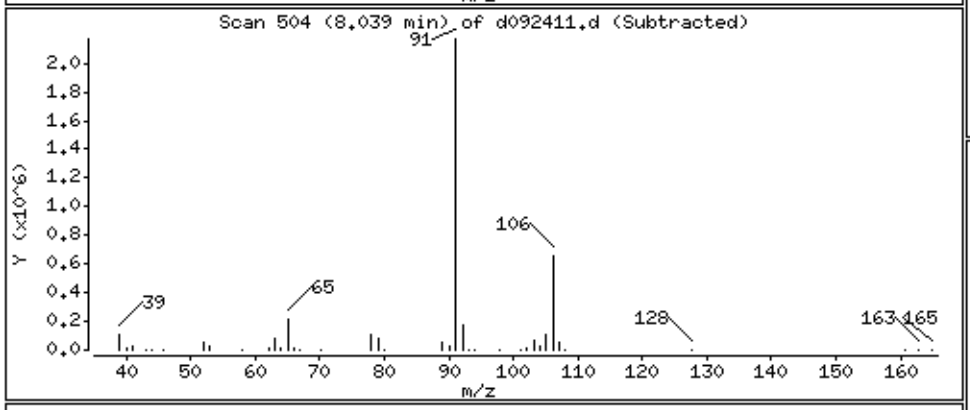
Column phase: RTx-624

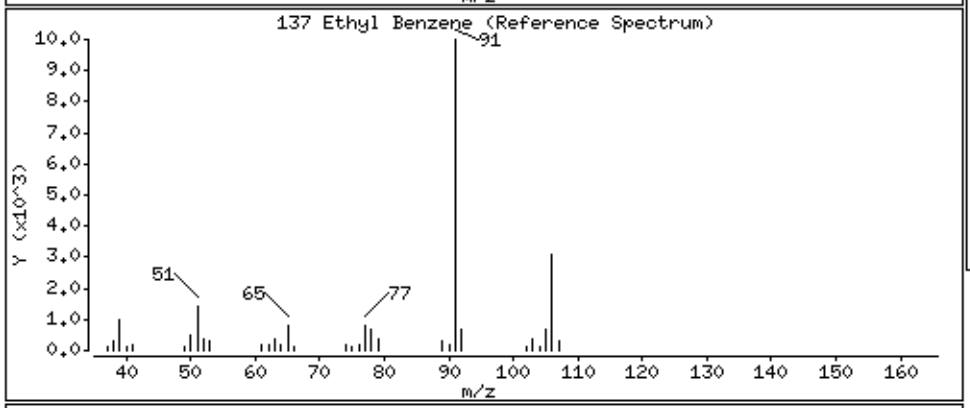
Column diameter: 0.53

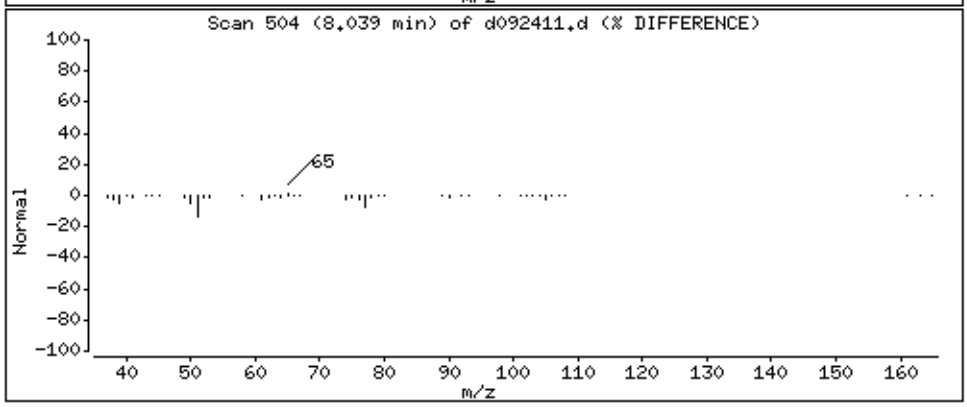
137 Ethyl Benzene

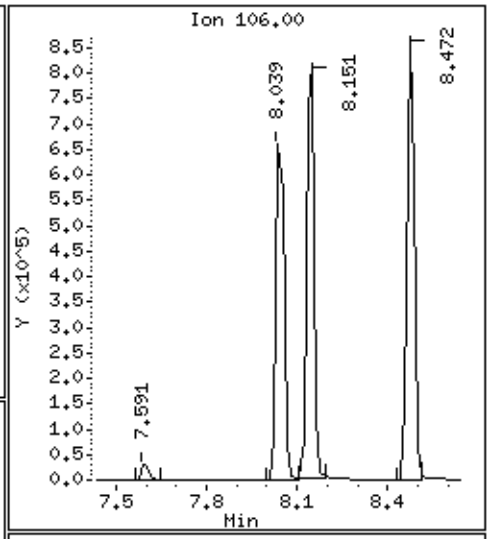
Concentration: 54.125 PPBV

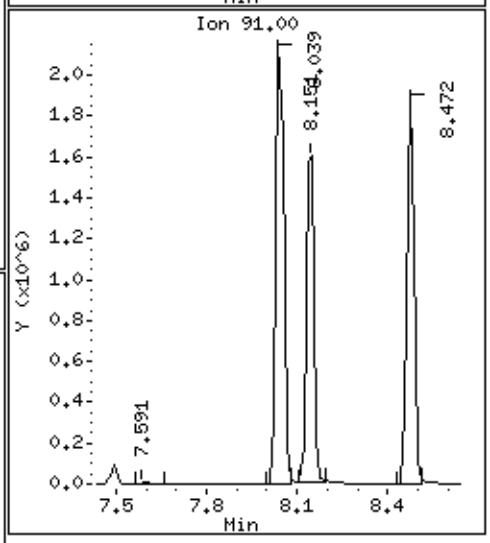












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

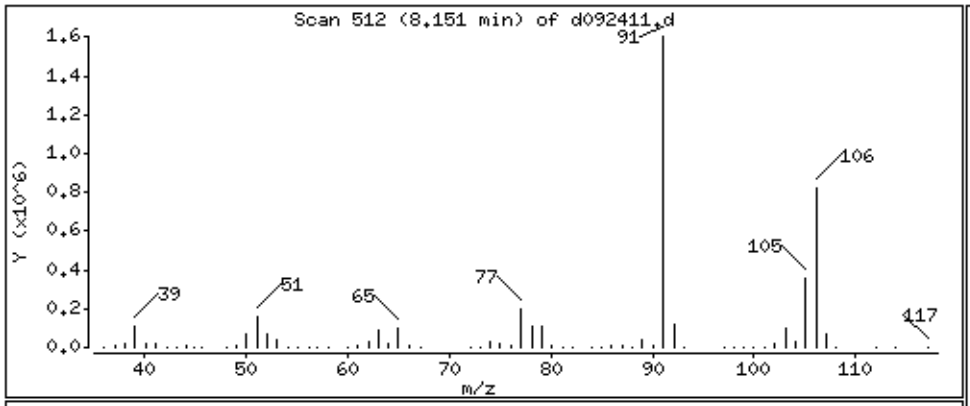
Operator: mtw

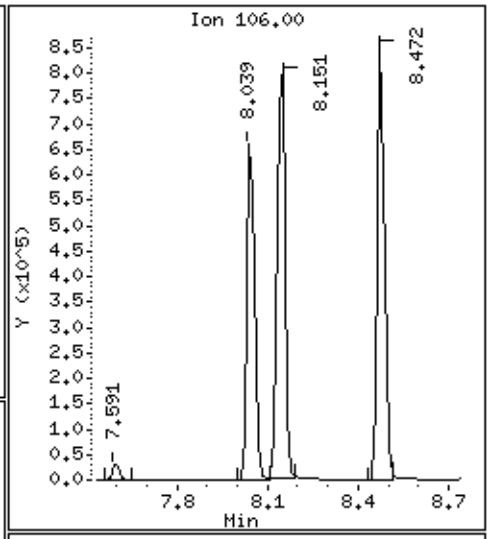
Column phase: RTx-624

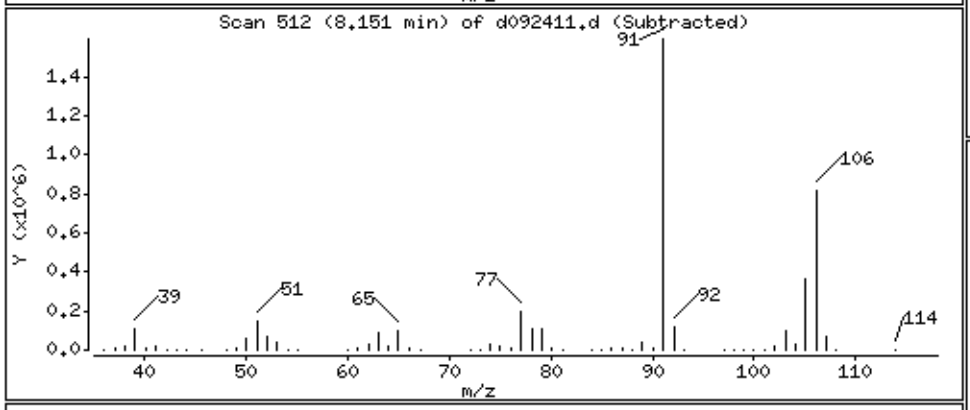
Column diameter: 0.53

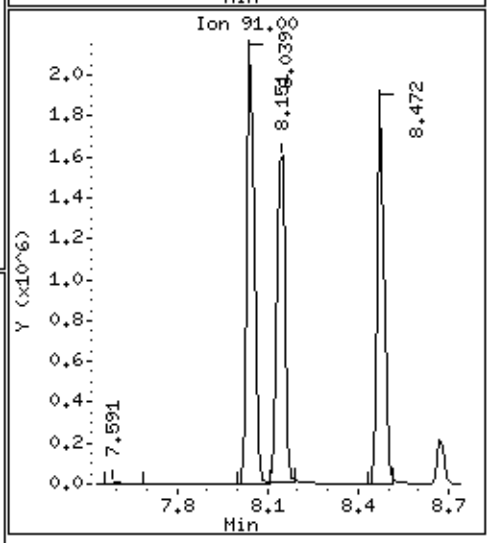
140 m,p-Xylene

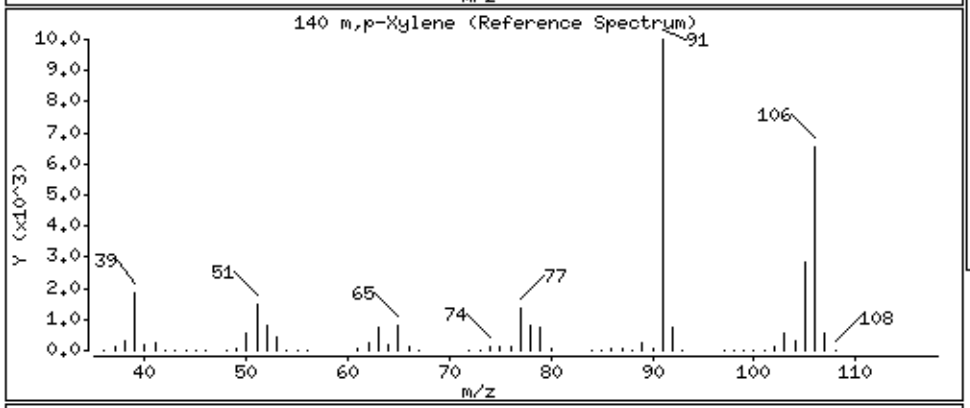
Concentration: 51.867 PPBV

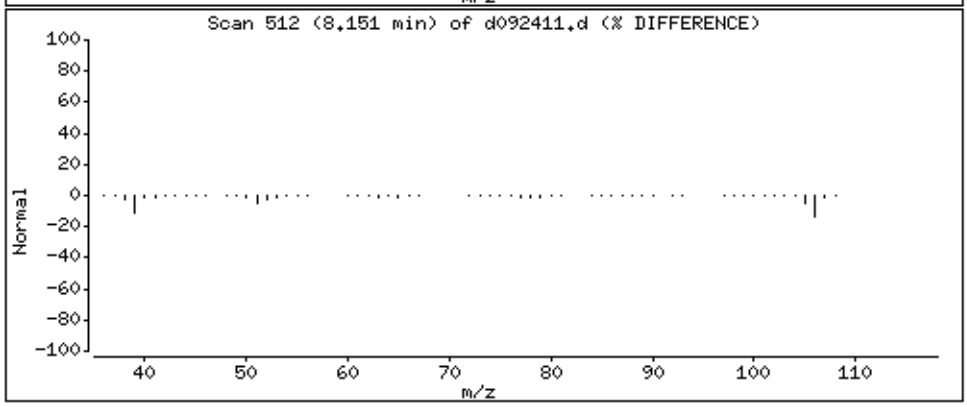












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

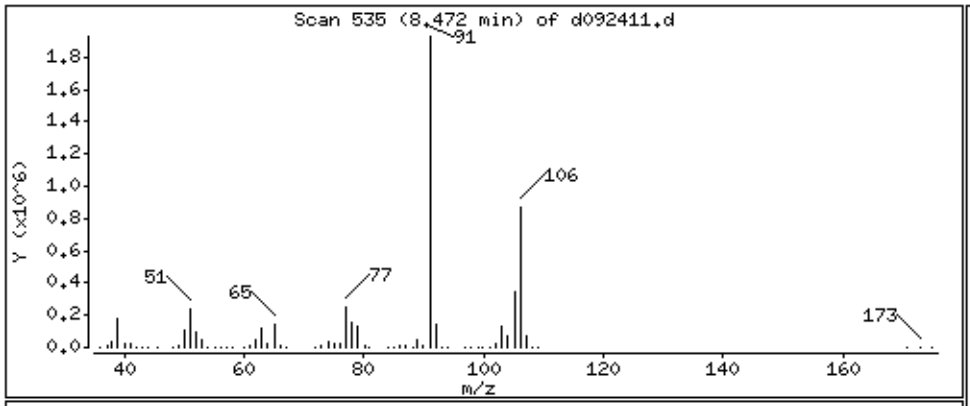
Operator: mtw

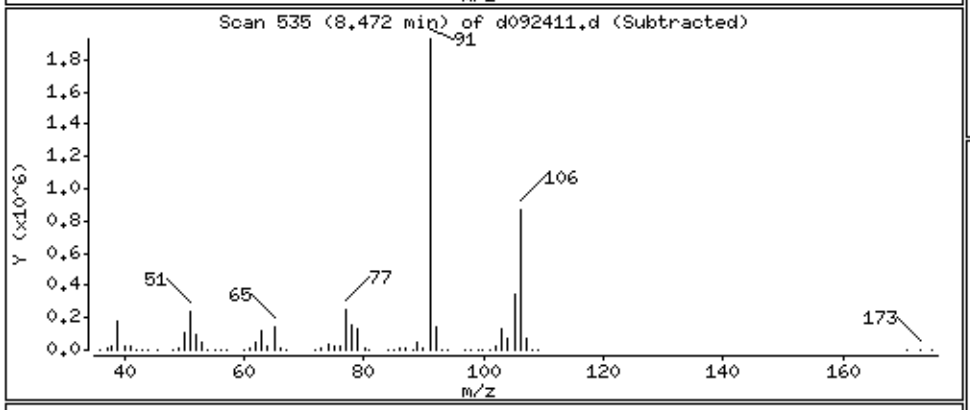
Column phase: RTx-624

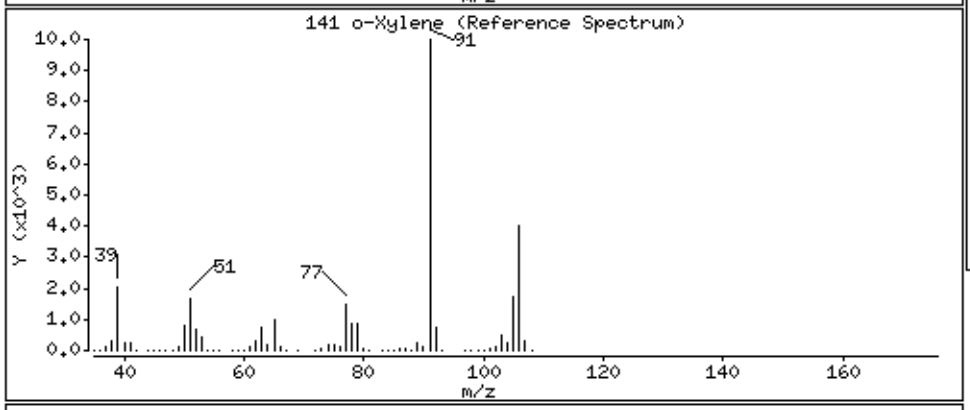
Column diameter: 0.53

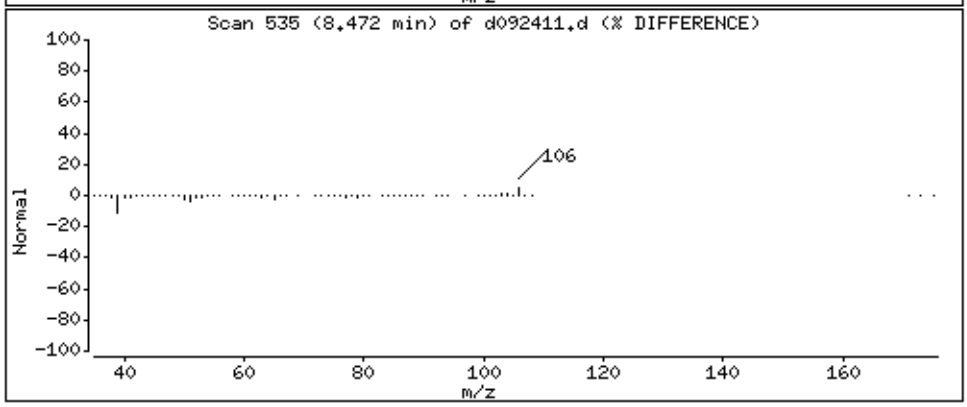
141 o-Xylene

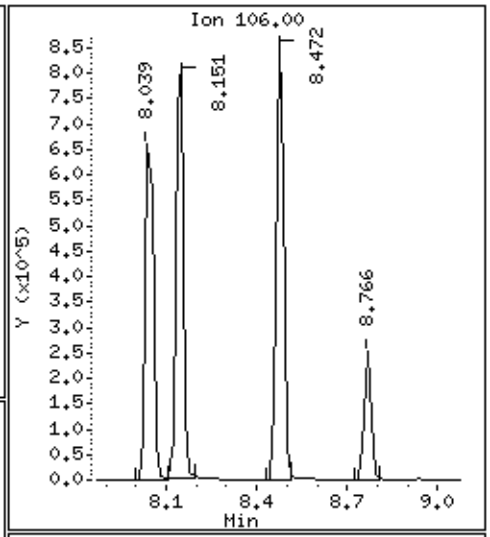
Concentration: 52.274 PPBV

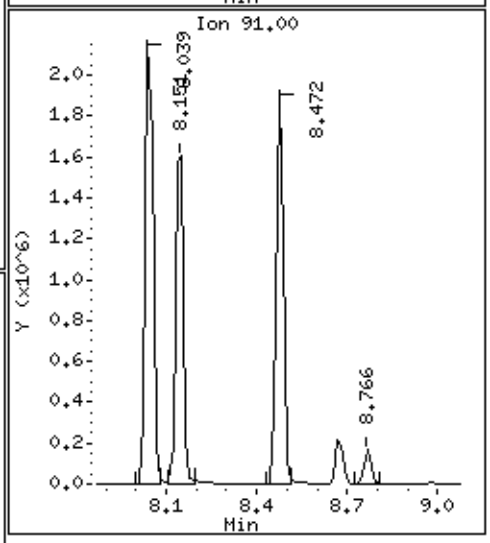












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

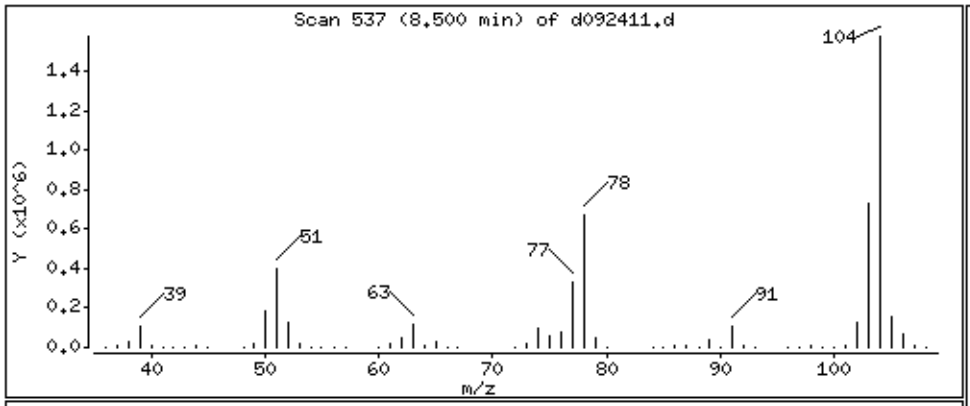
Operator: mtw

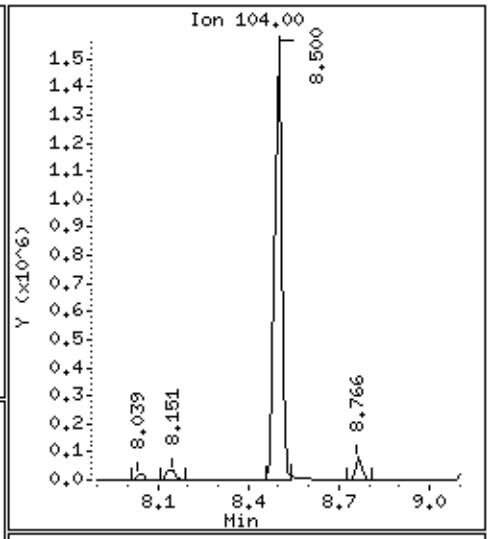
Column phase: RTx-624

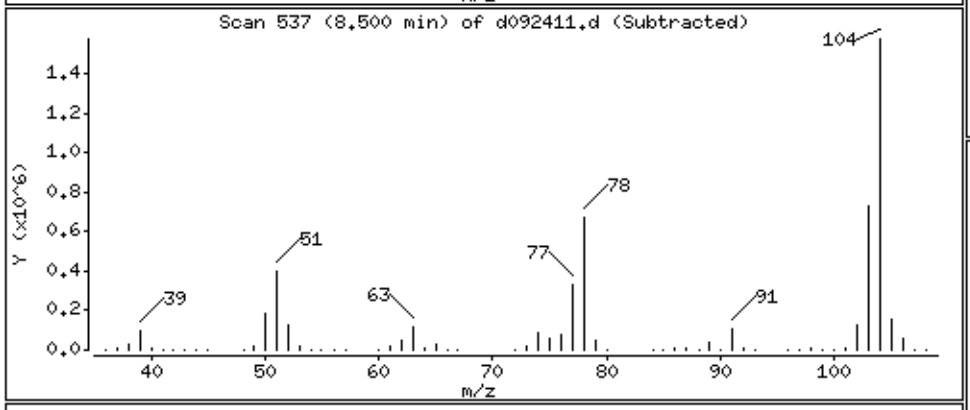
Column diameter: 0.53

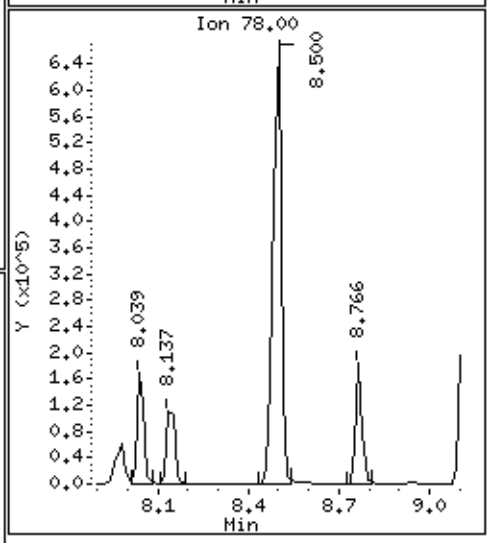
142 Styrene

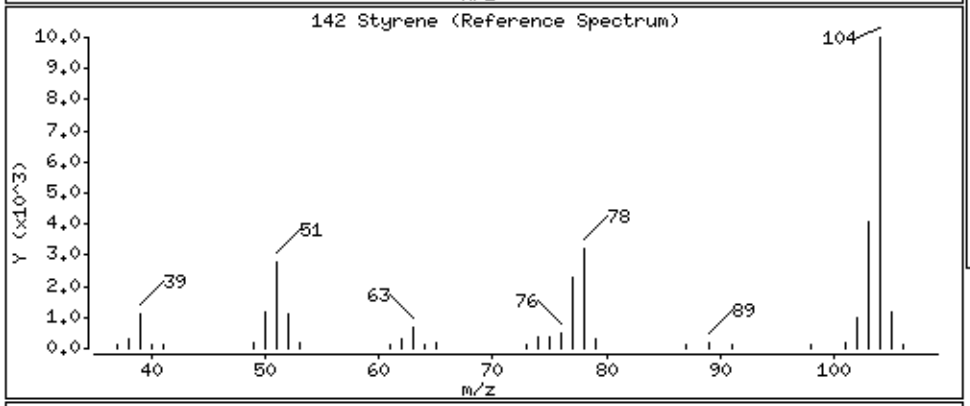
Concentration: 54.159 PPBV

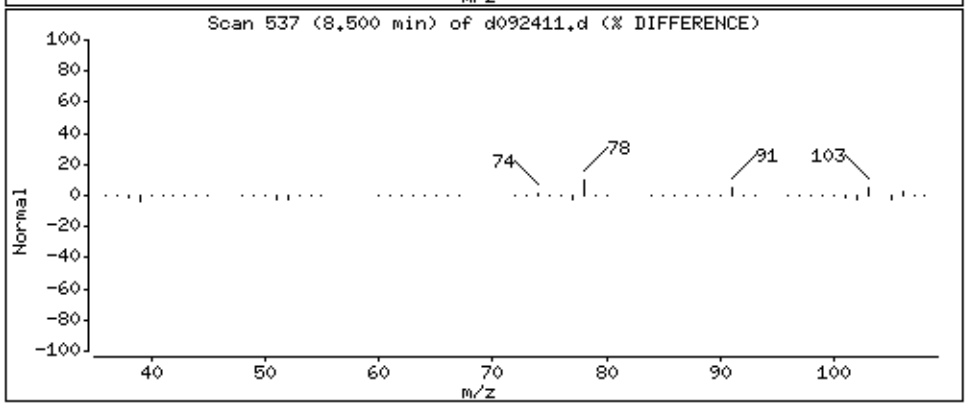












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

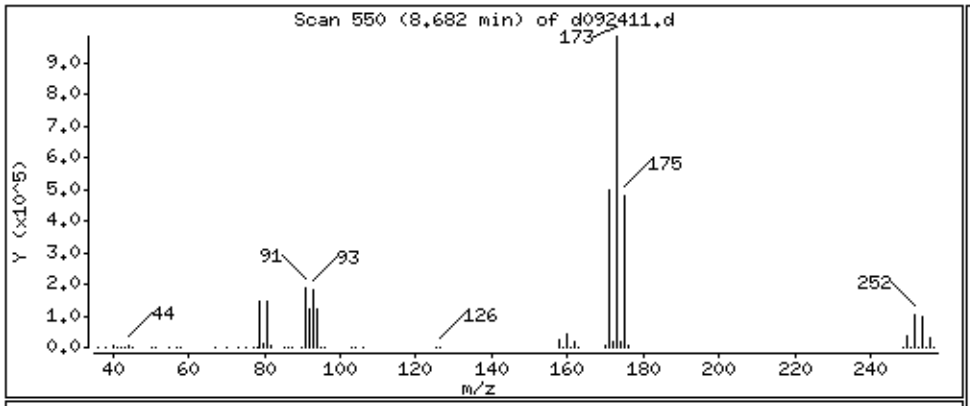
Operator: mtw

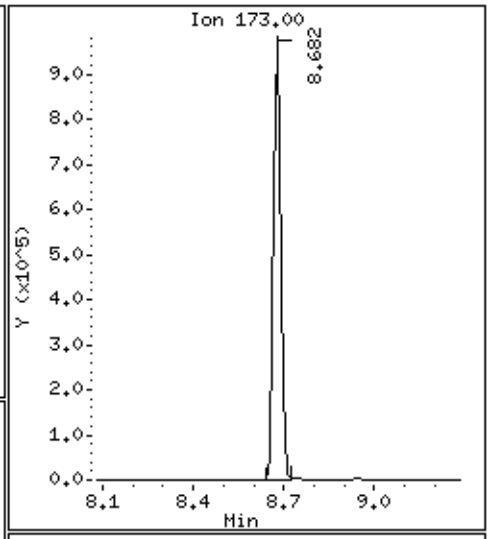
Column phase: RTx-624

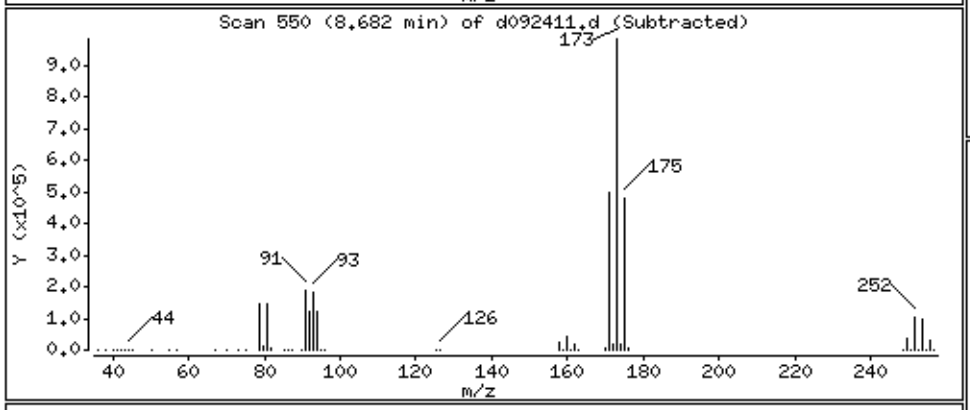
Column diameter: 0.53

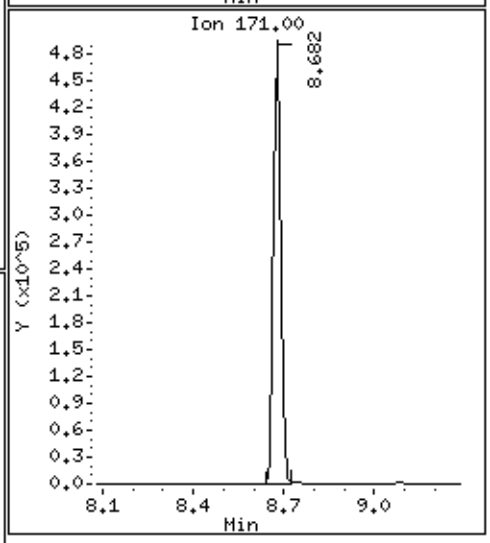
145 Bromoform

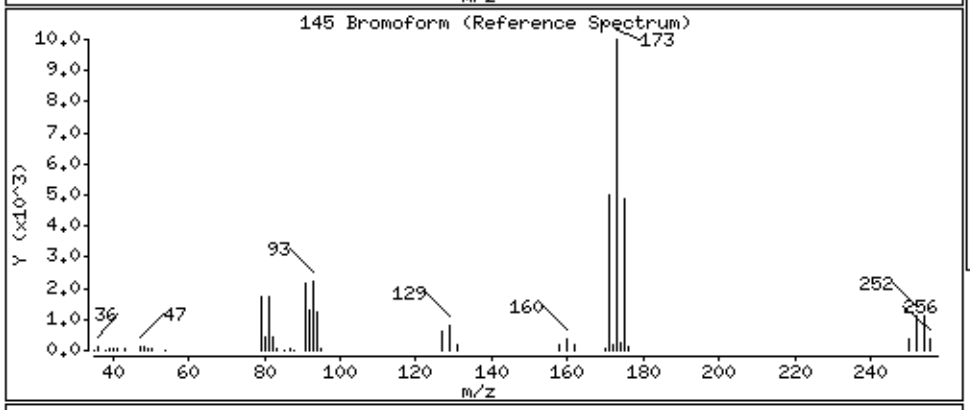
Concentration: 54.512 PPBV

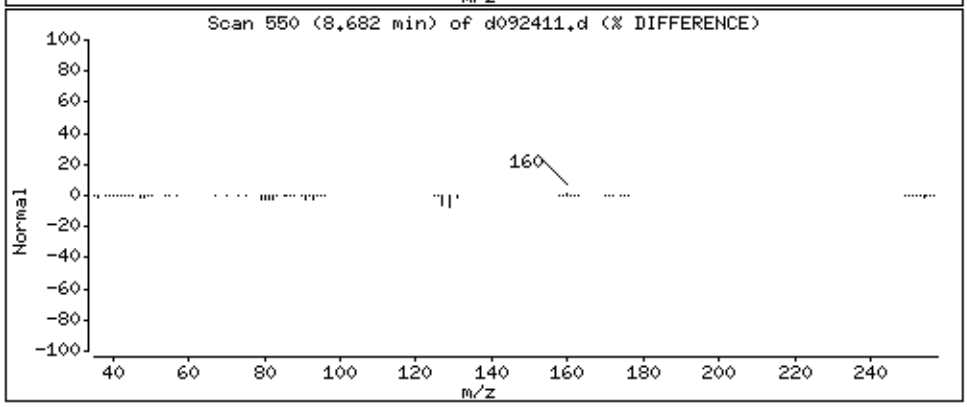












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

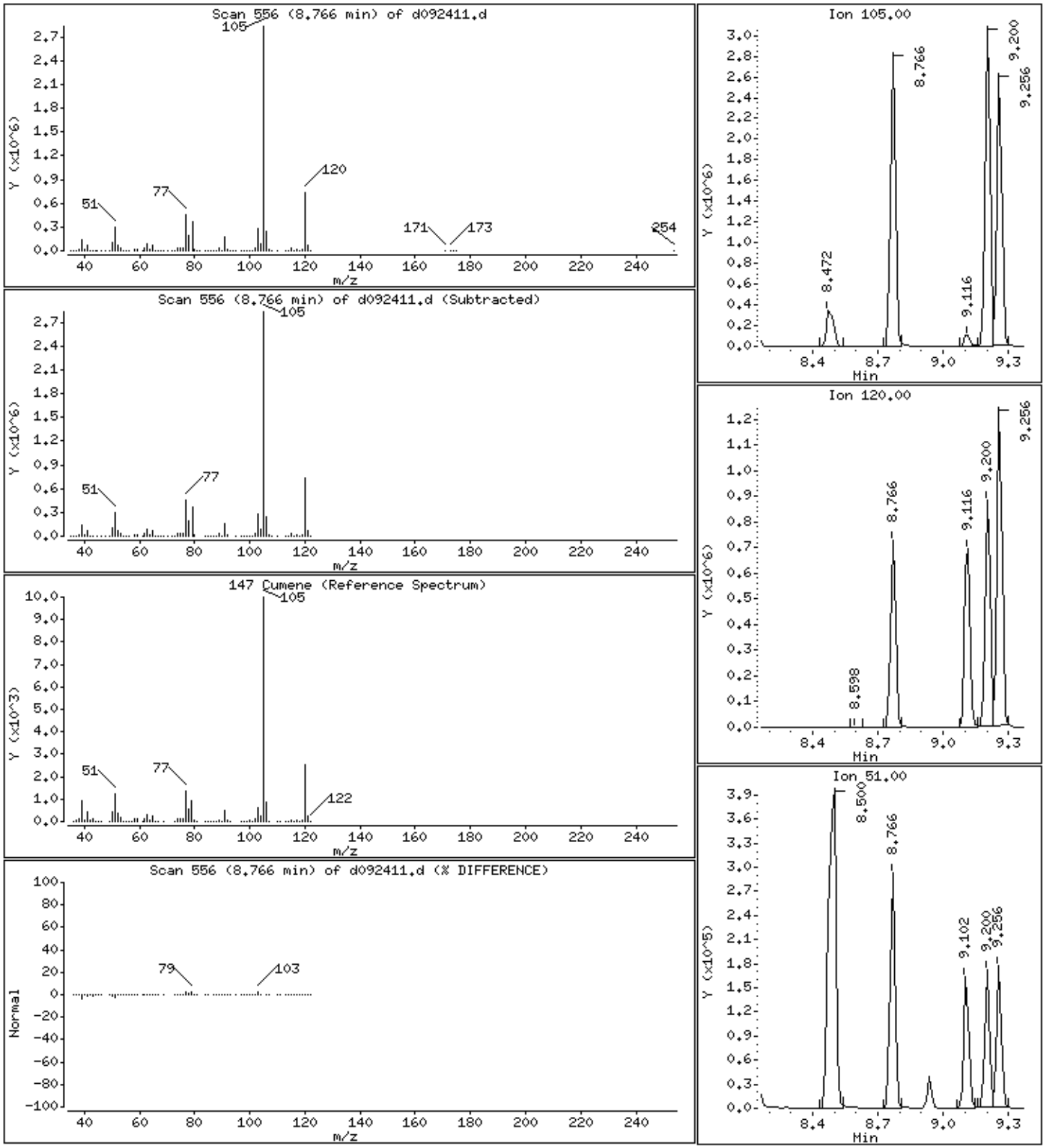
Operator: mtw

Column phase: RTx-624

Column diameter: 0.53

147 Cumene

Concentration: 53.084 PPBV



Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

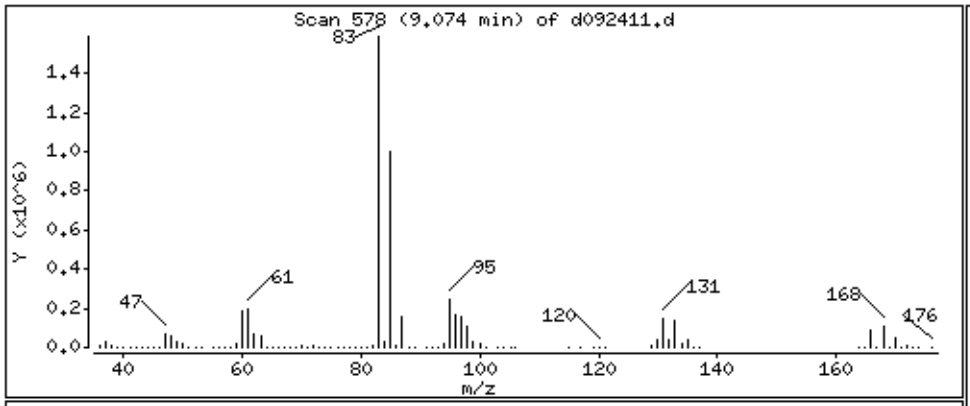
Operator: mtw

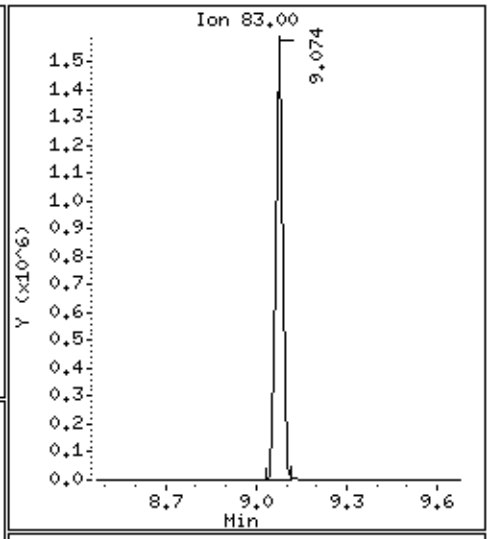
Column phase: RTx-624

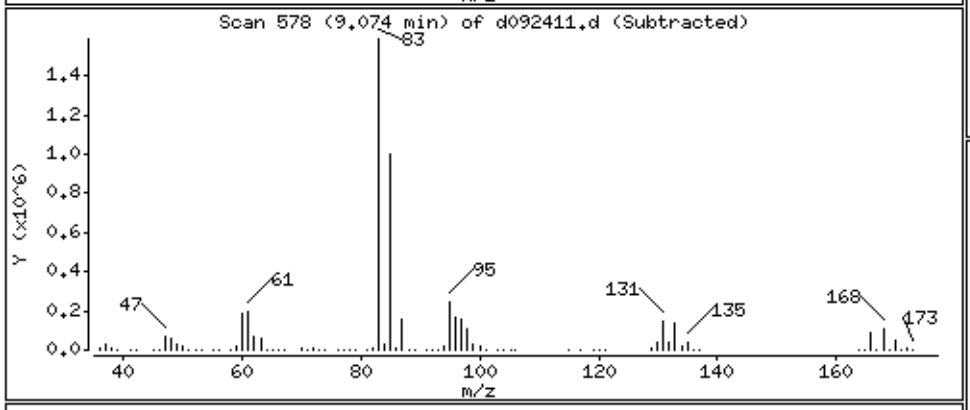
Column diameter: 0.53

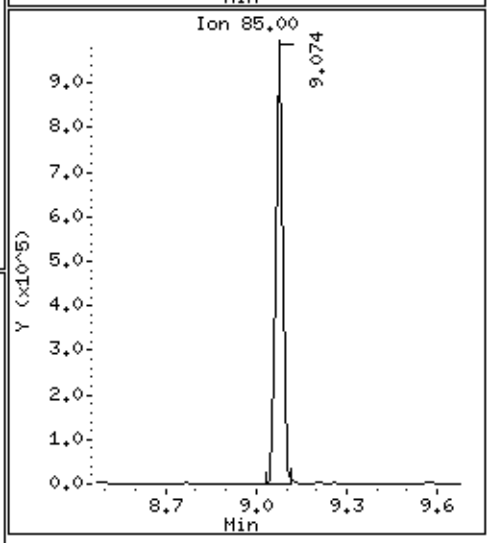
151 1,1,2,2-Tetrachloroethane

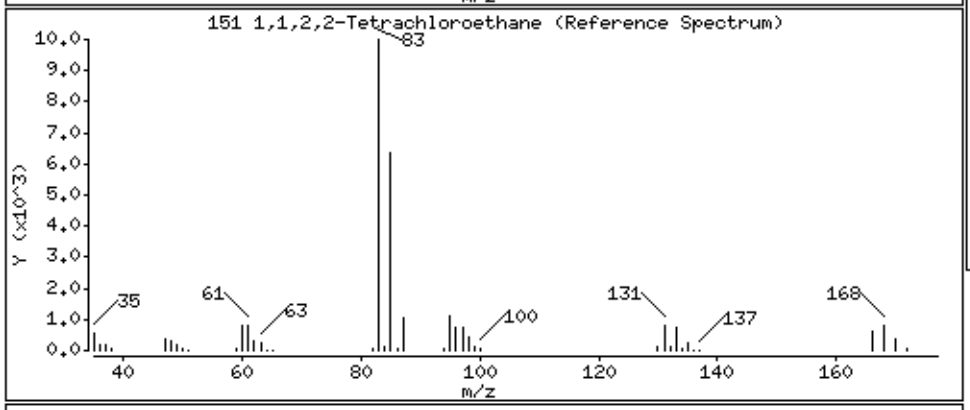
Concentration: 53.708 PPBV

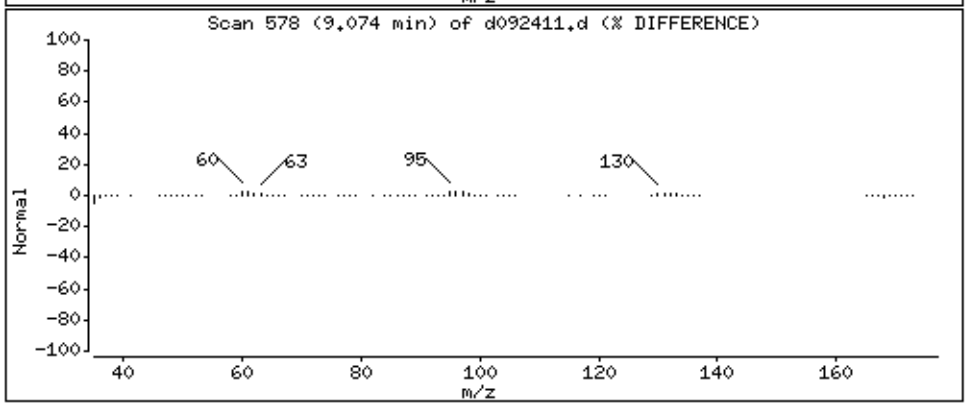












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

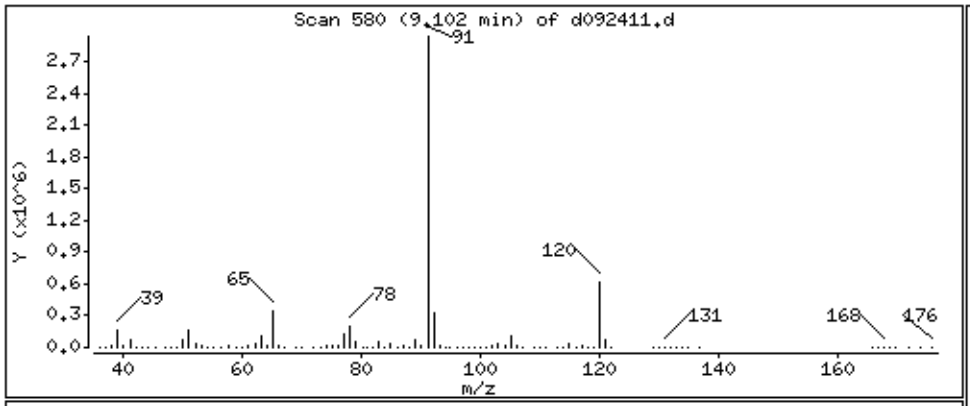
Operator: mtw

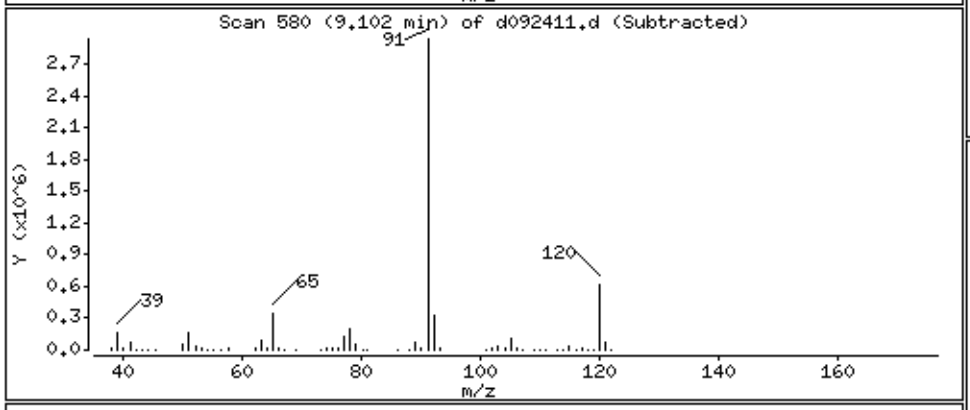
Column phase: RTx-624

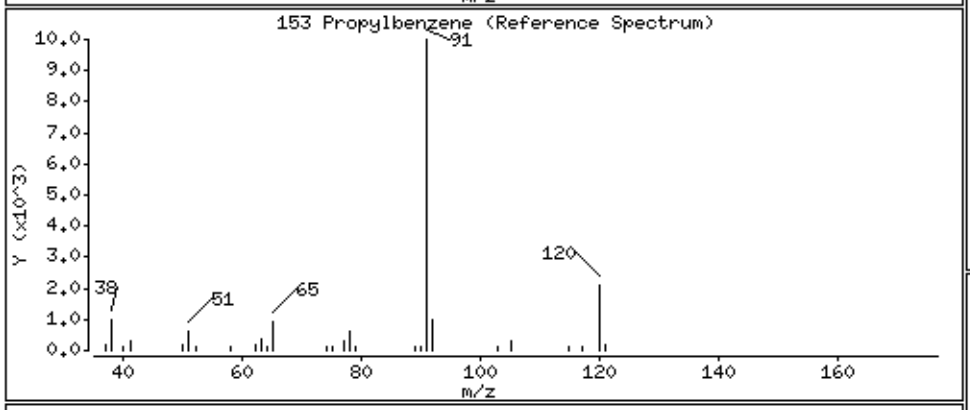
Column diameter: 0.53

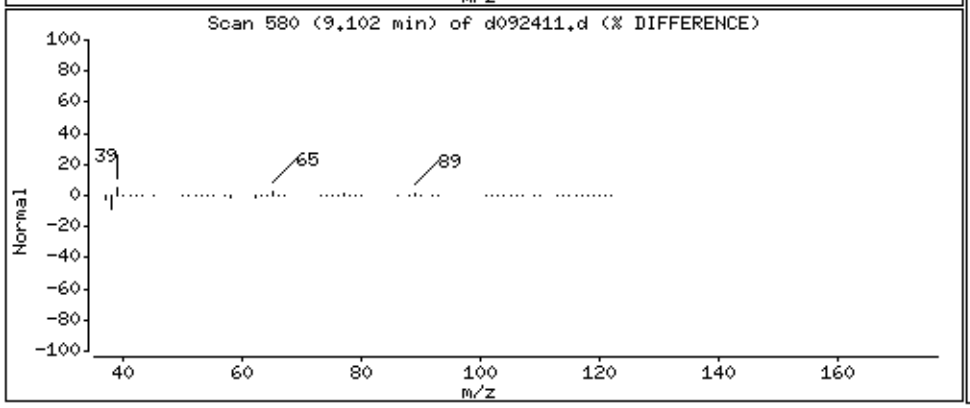
153 Propylbenzene

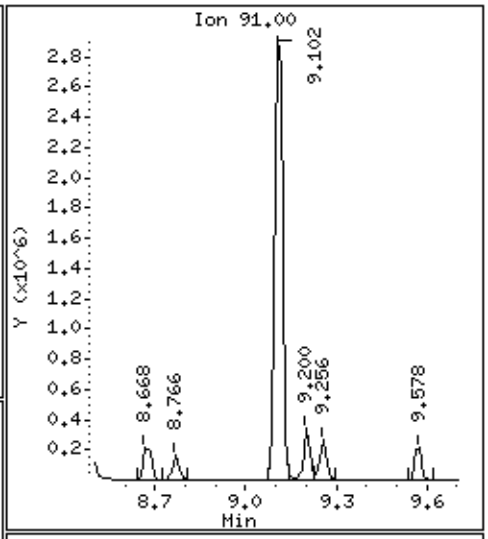
Concentration: 53.762 PPBV

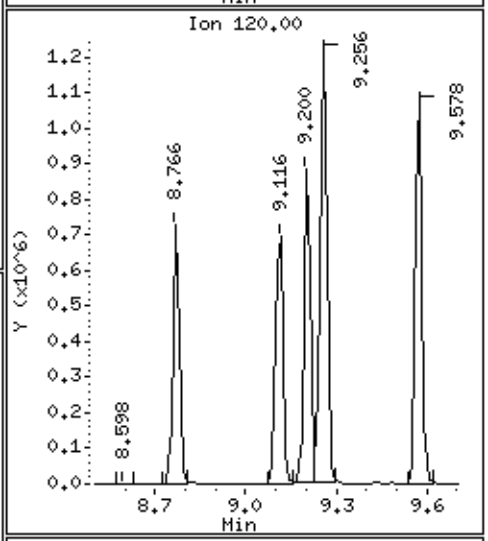


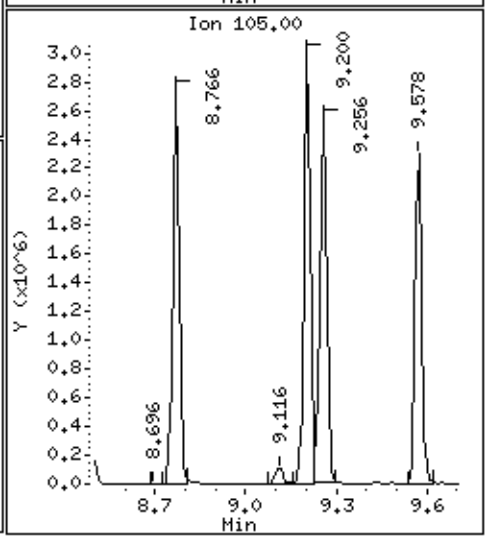












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

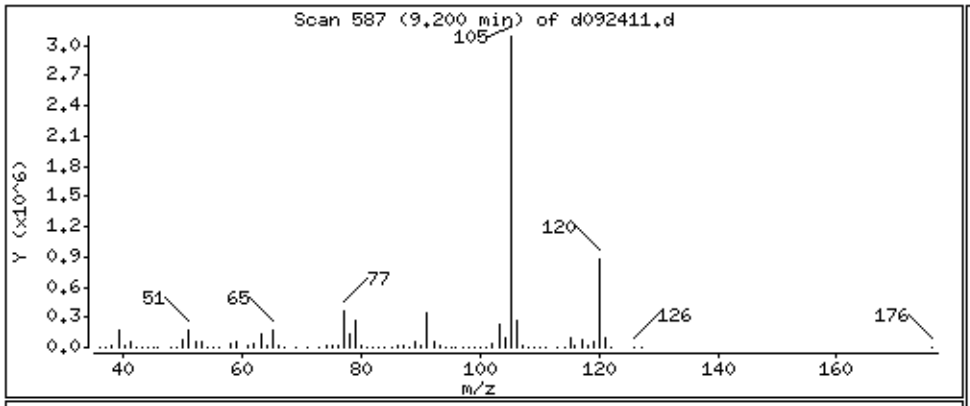
Operator: mtw

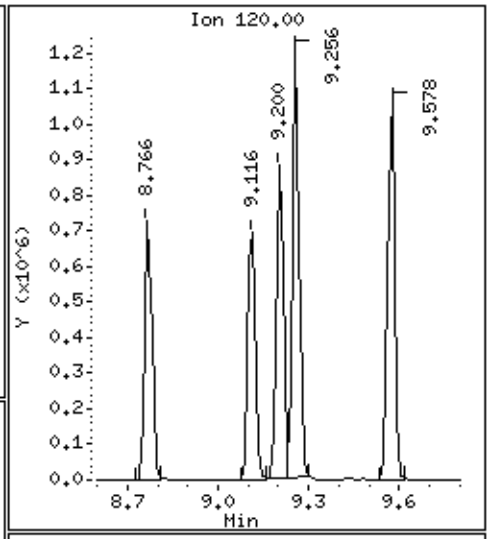
Column phase: RTx-624

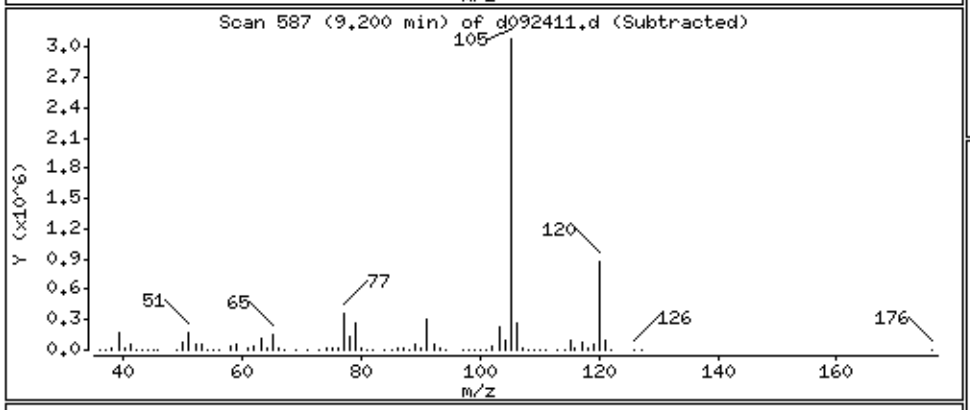
Column diameter: 0.53

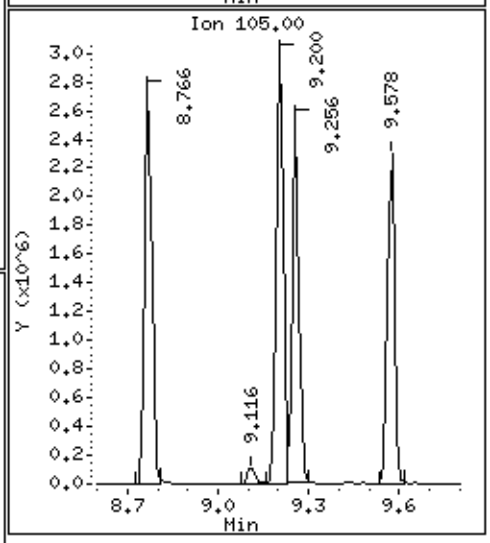
155 4-Ethyltoluene

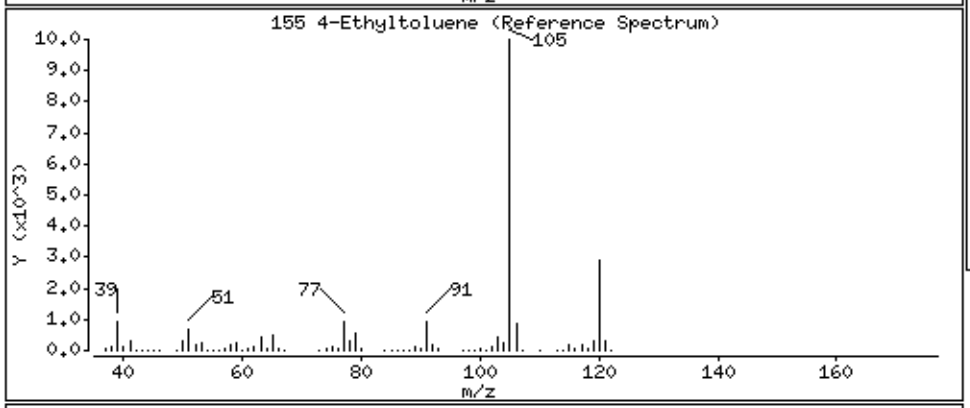
Concentration: 52.990 PPBV

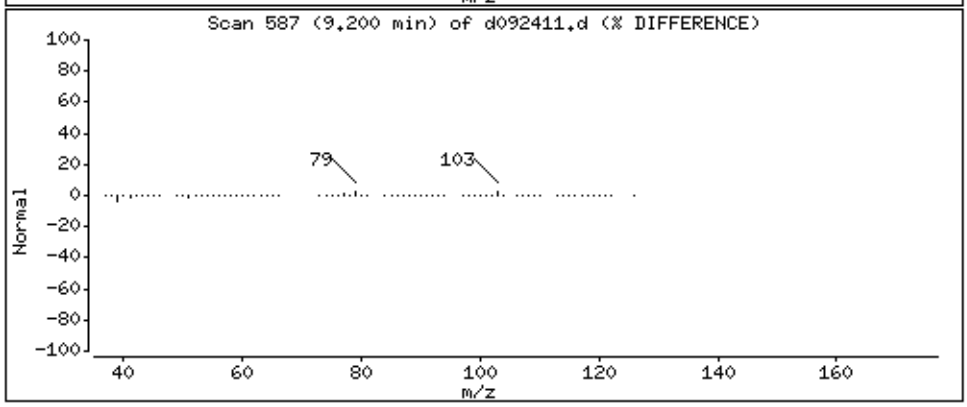












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

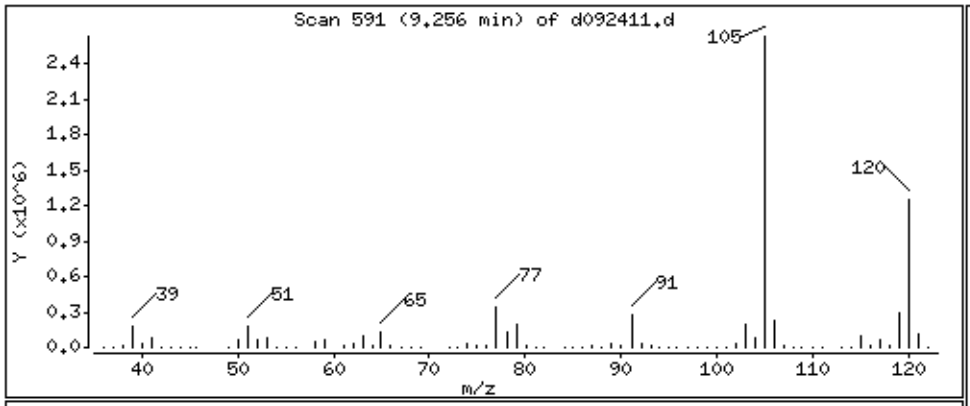
Operator: mtw

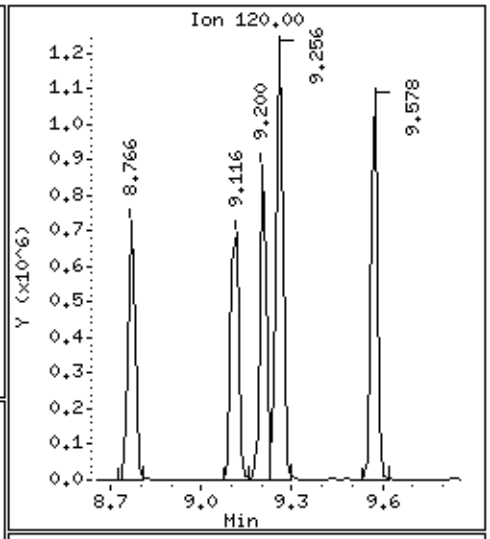
Column phase: RTx-624

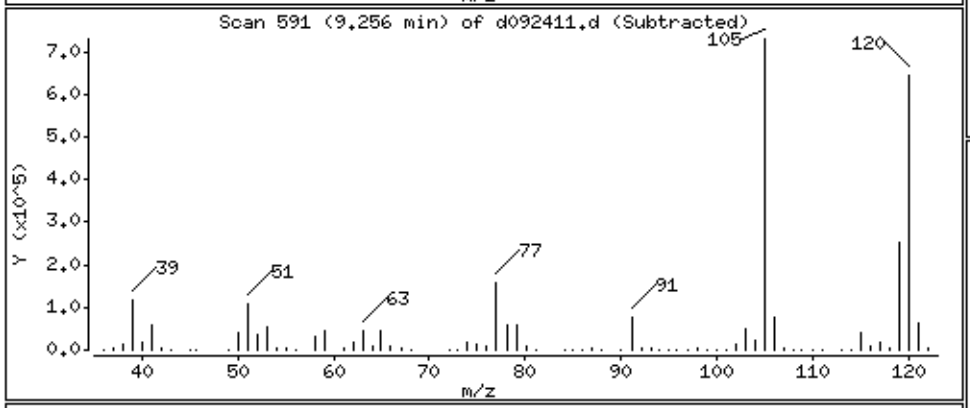
Column diameter: 0.53

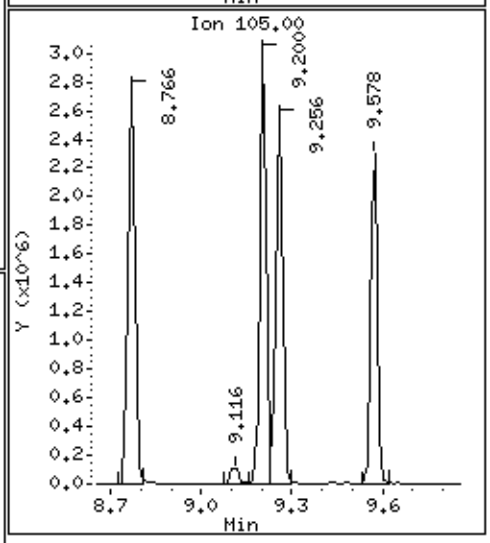
156 1,3,5-Trimethylbenzene

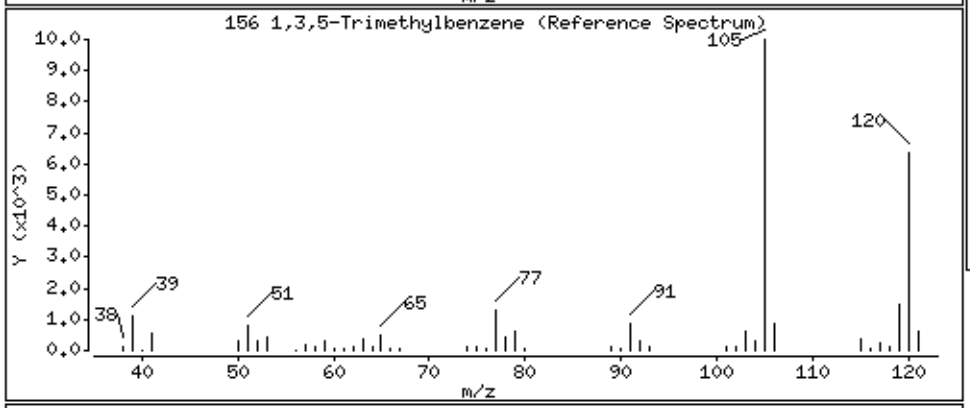
Concentration: 51.859 PPBV

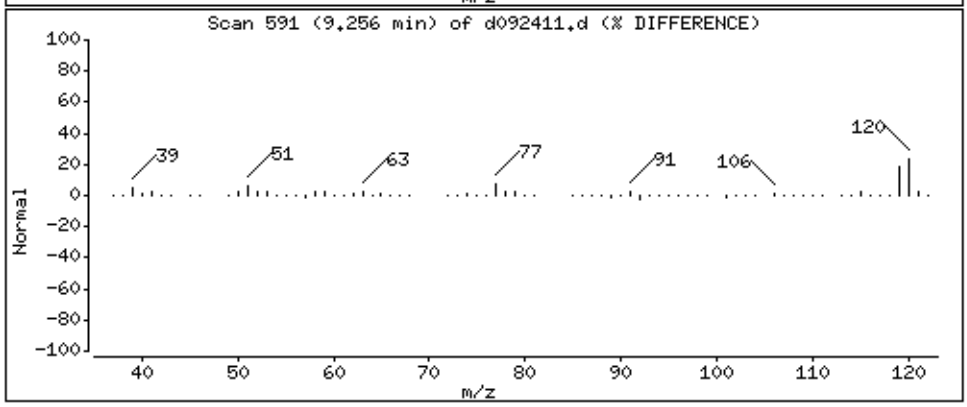












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

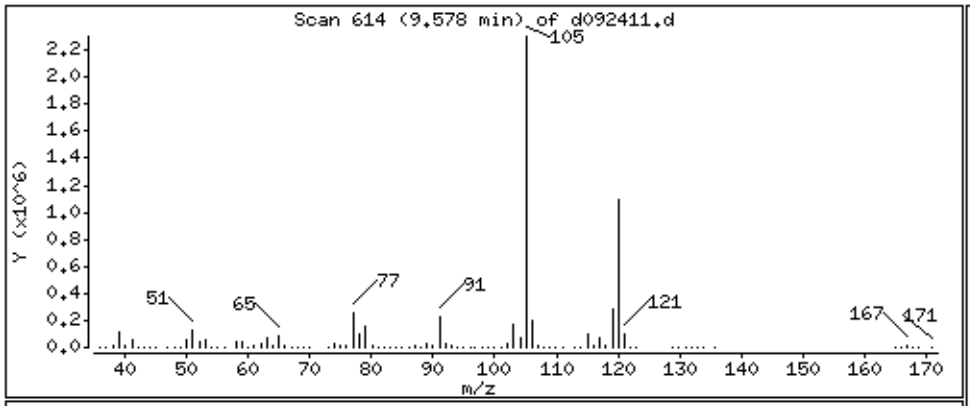
Operator: mtw

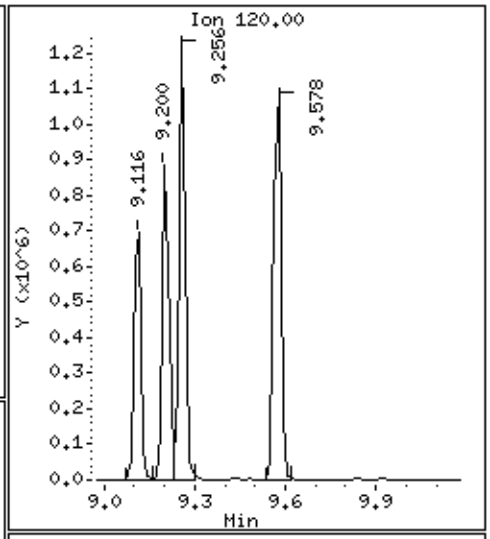
Column phase: RTx-624

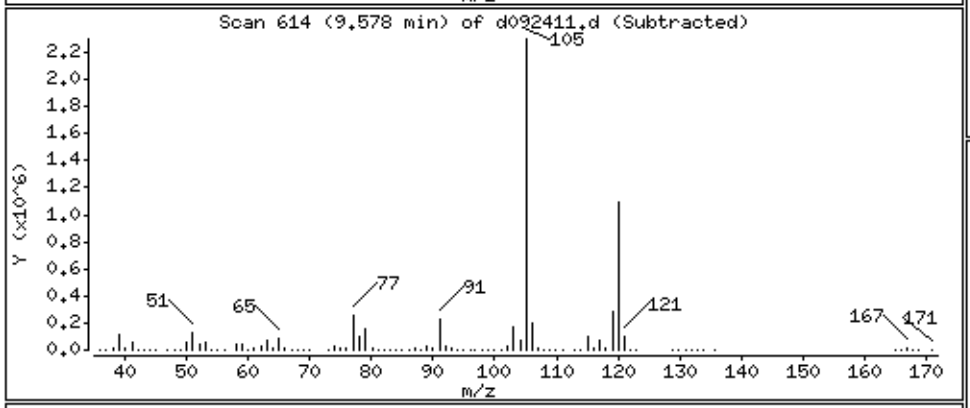
Column diameter: 0.53

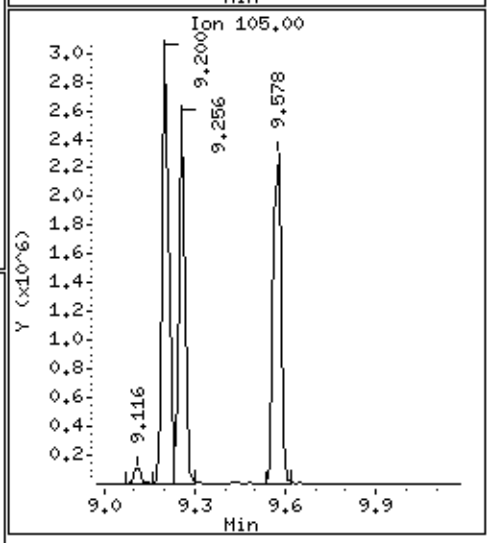
162 1,2,4-Trimethylbenzene

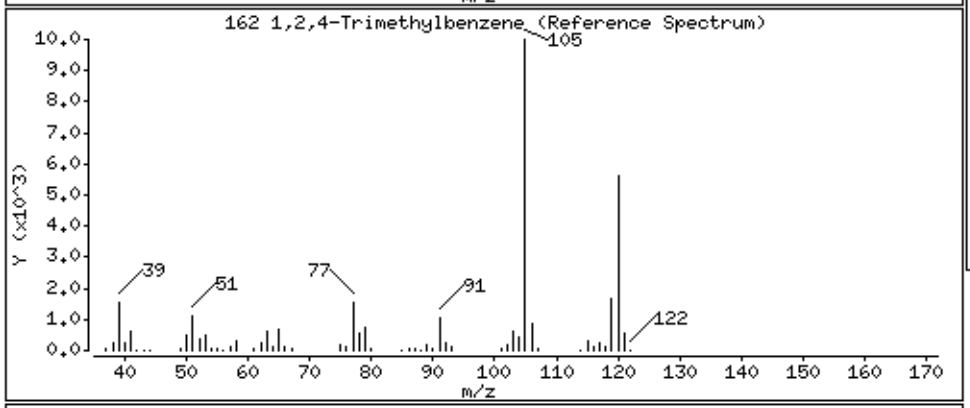
Concentration: 53.868 PPBV

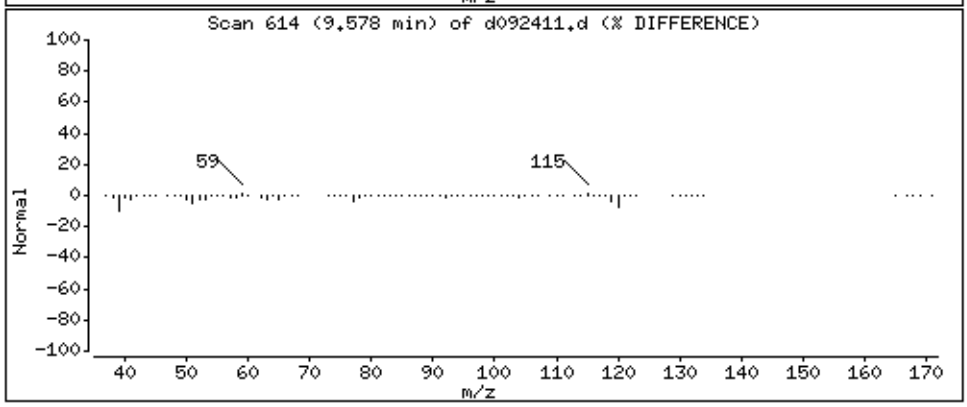












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

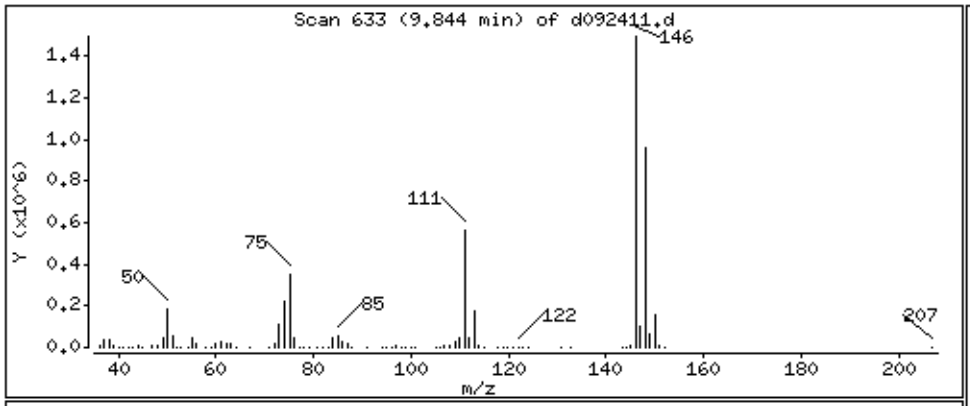
Operator: mtw

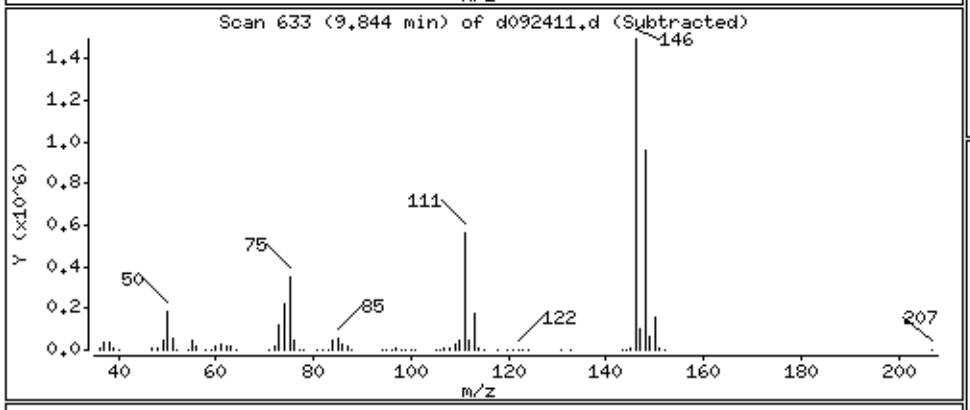
Column phase: RTx-624

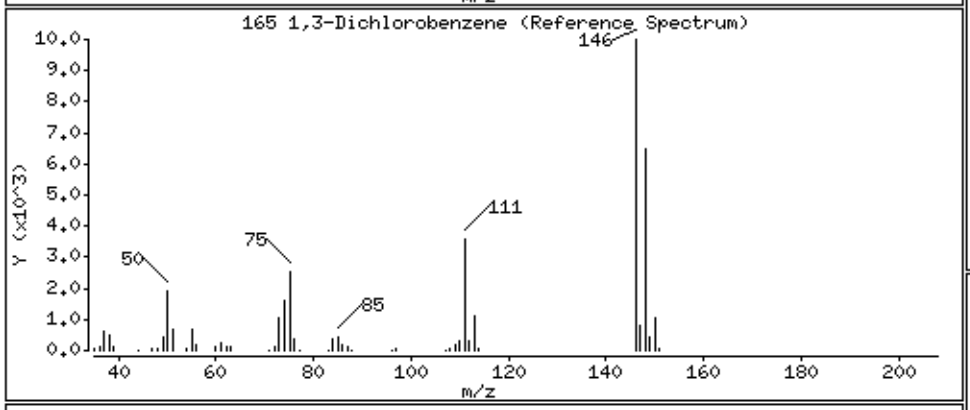
Column diameter: 0.53

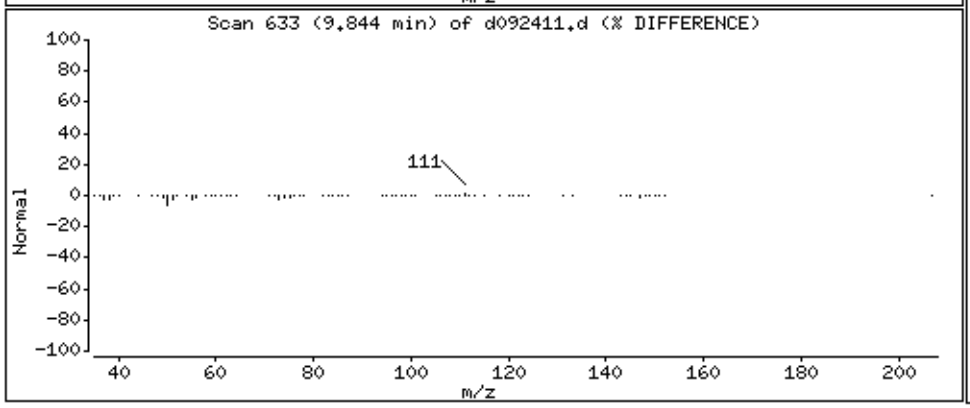
165 1,3-Dichlorobenzene

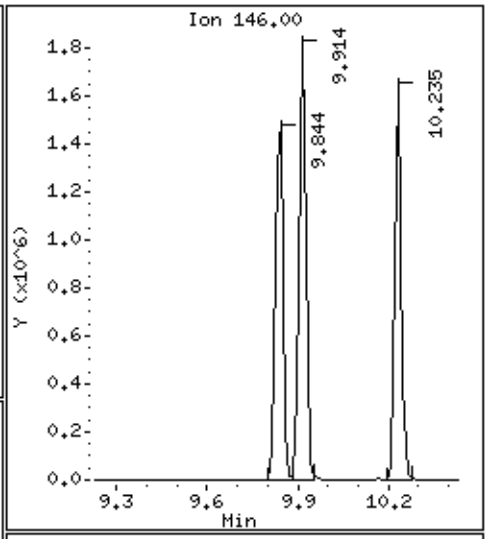
Concentration: 53.019 PPBV

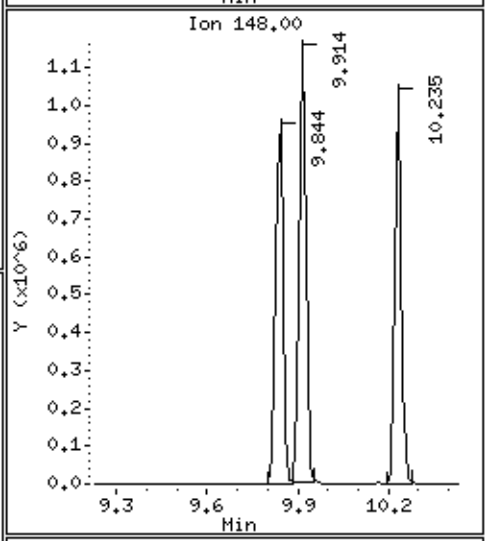


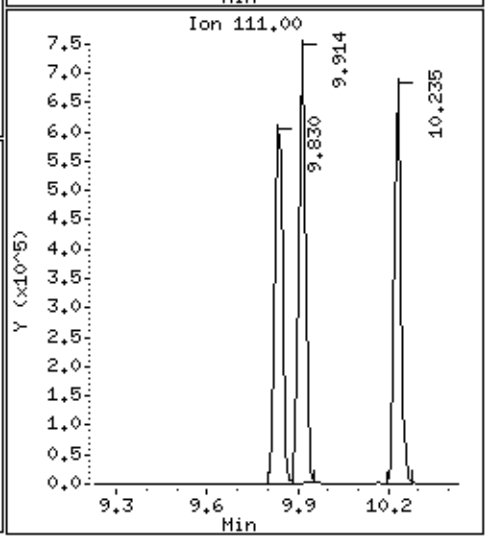












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

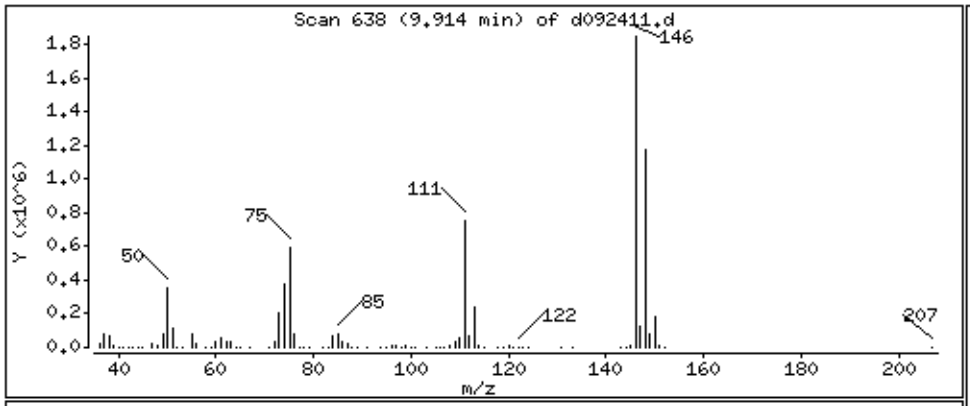
Operator: mtw

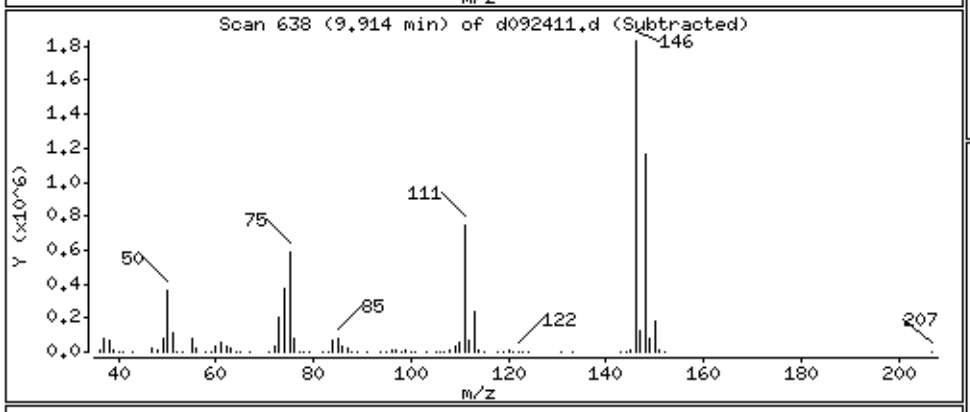
Column phase: RTx-624

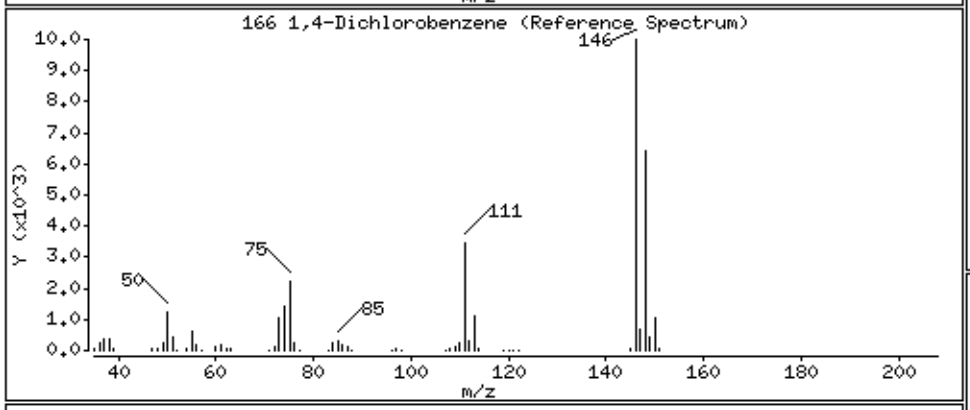
Column diameter: 0.53

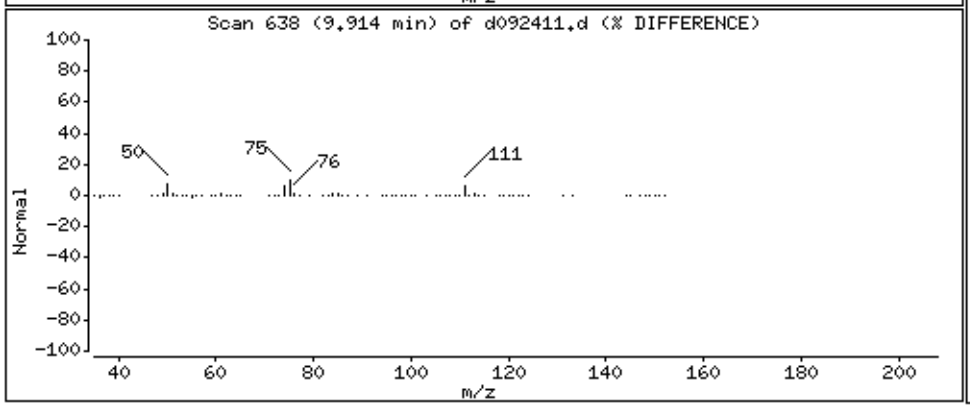
166 1,4-Dichlorobenzene

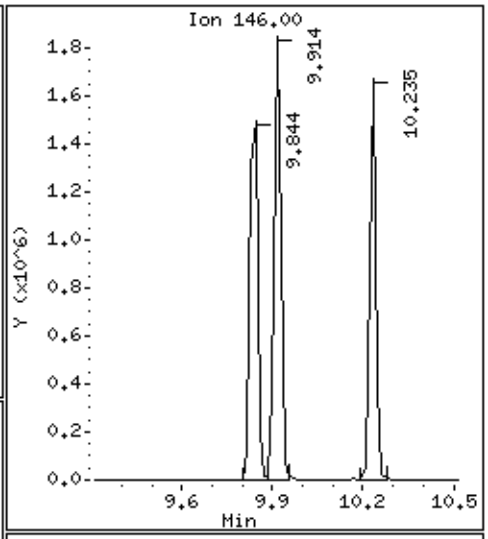
Concentration: 54.170 PPBV

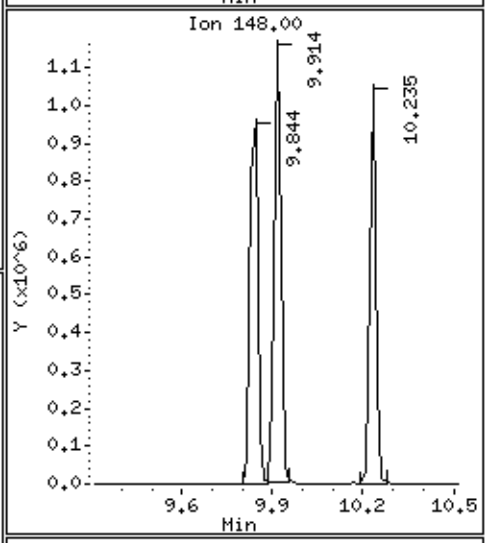


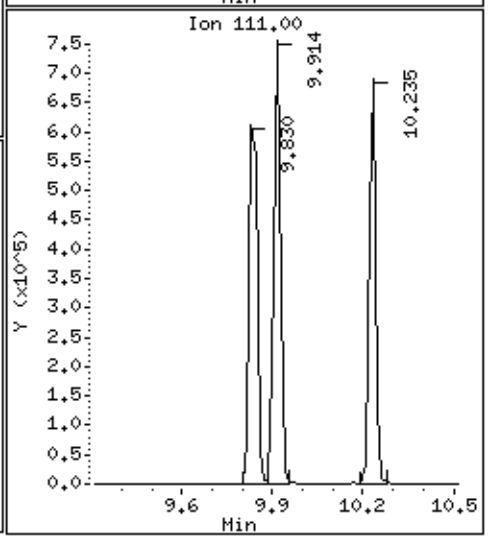












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

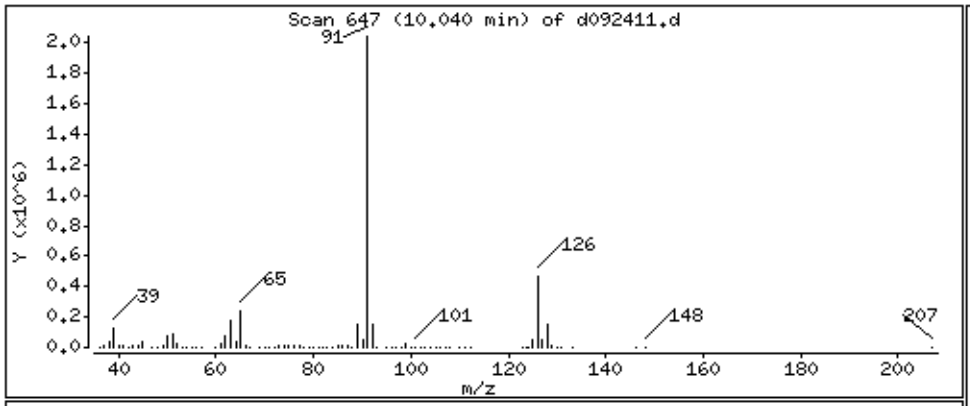
Operator: mtw

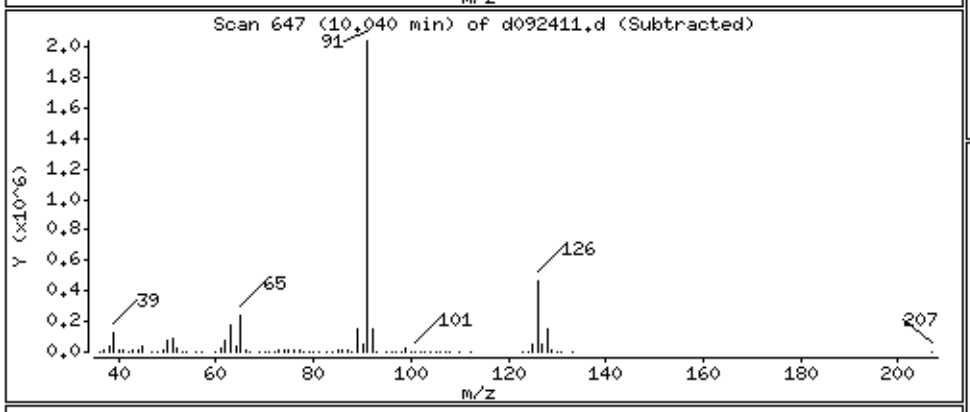
Column phase: RTx-624

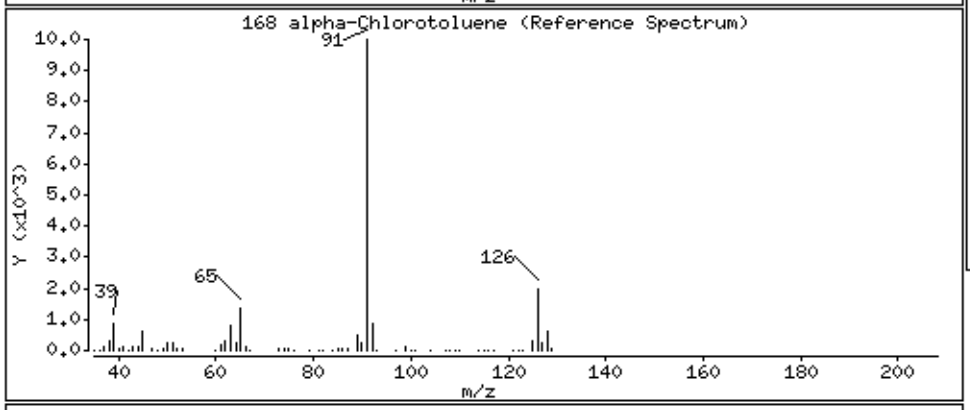
Column diameter: 0.53

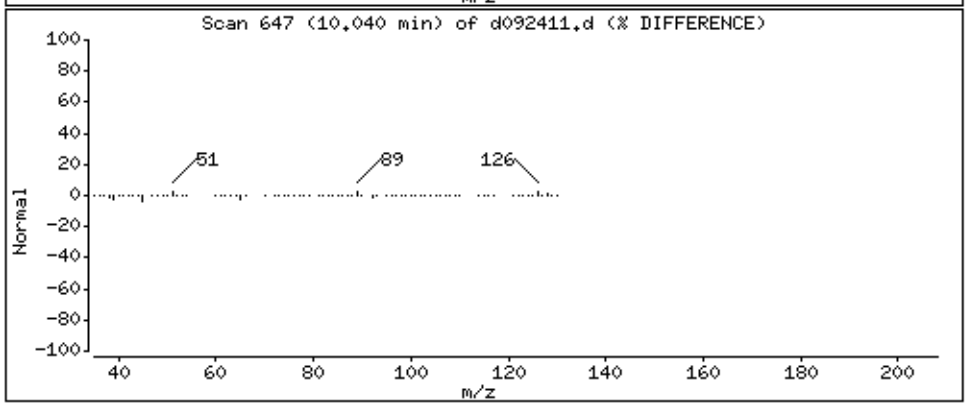
168 alpha-Chlorotoluene

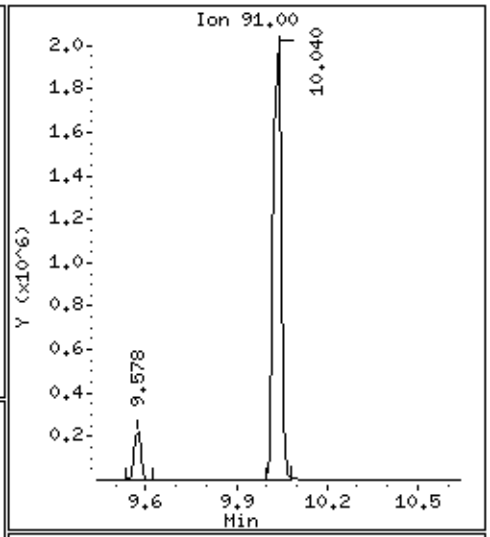
Concentration: 53.327 PPBV

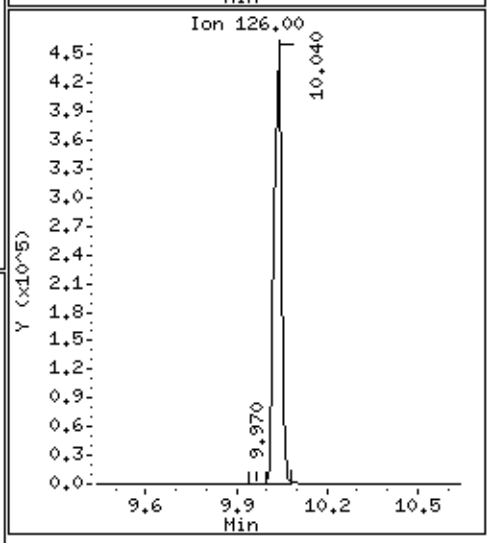












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

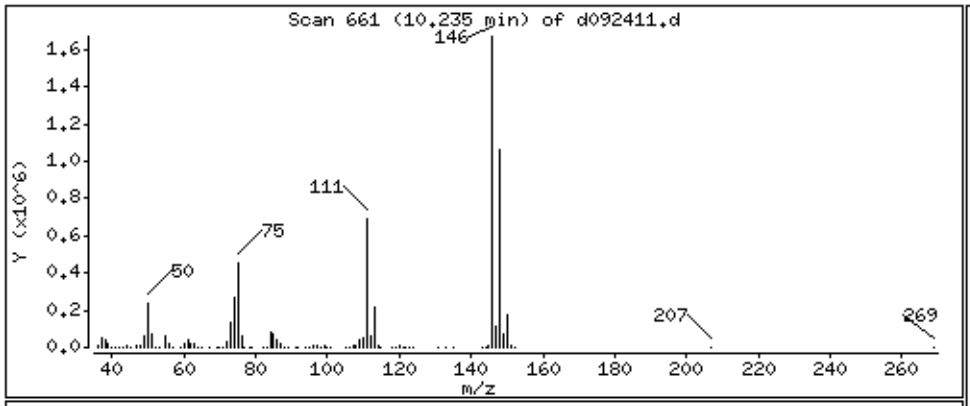
Operator: mtw

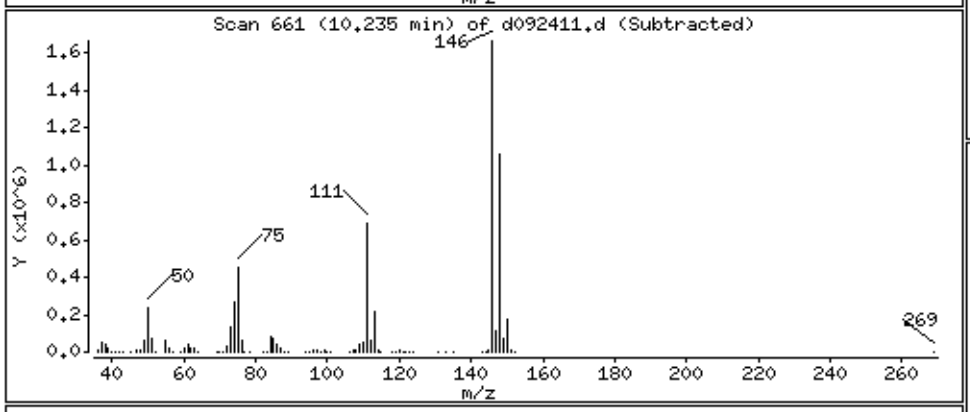
Column phase: RTx-624

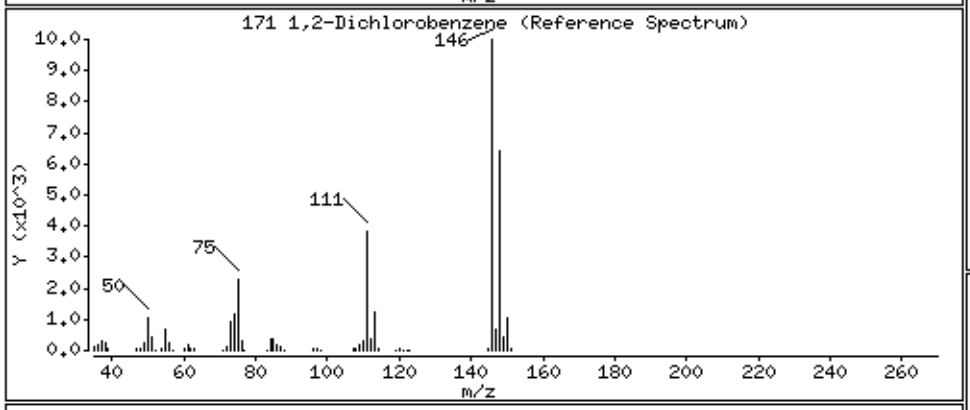
Column diameter: 0.53

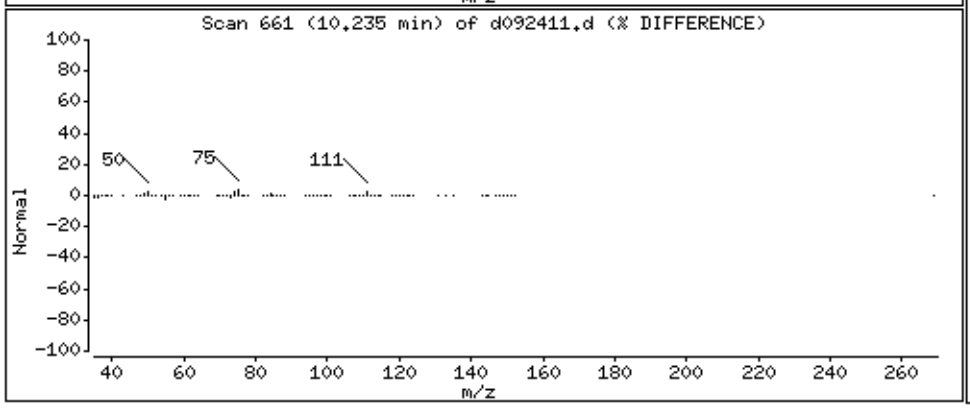
171 1,2-Dichlorobenzene

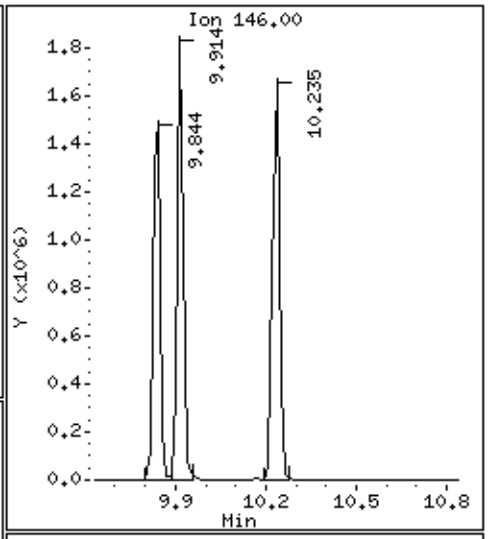
Concentration: 53.188 PPBV

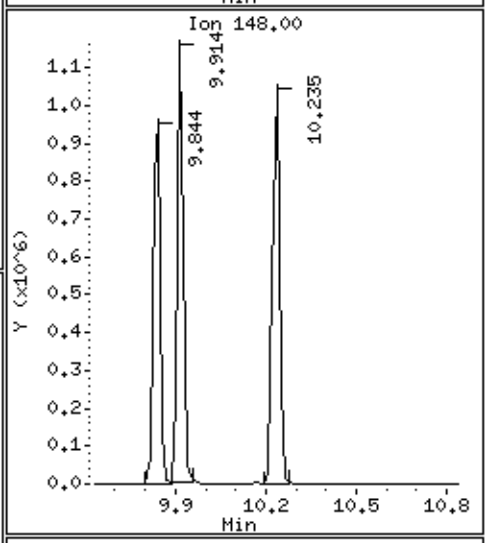


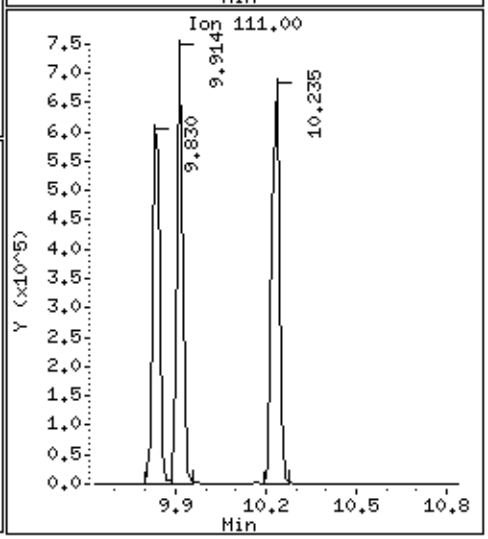












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

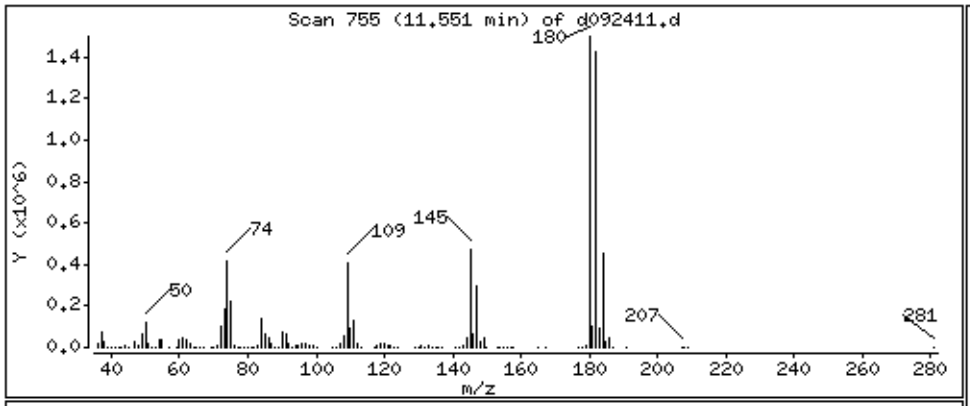
Operator: mtw

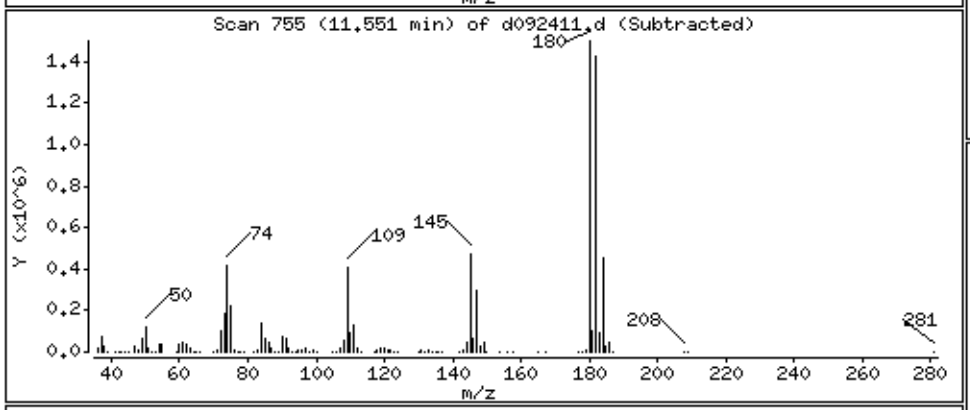
Column phase: RTx-624

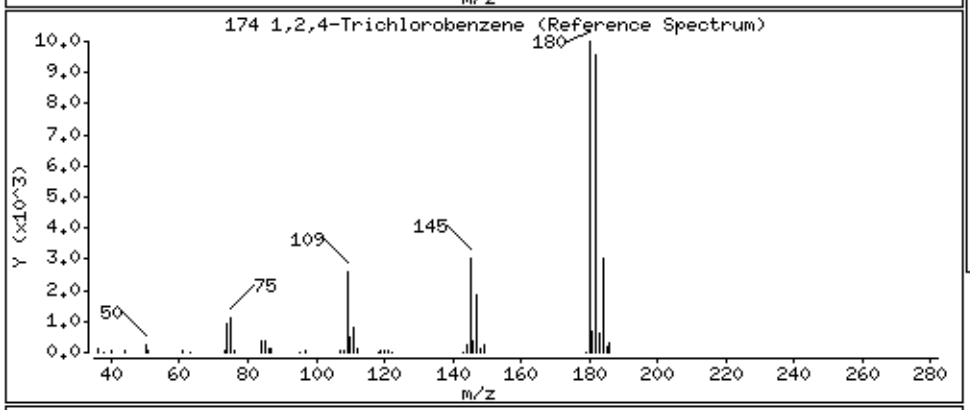
Column diameter: 0.53

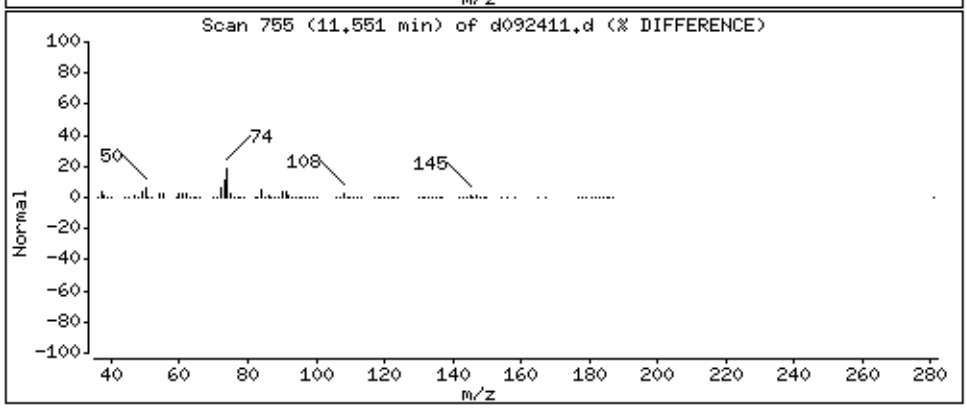
174 1,2,4-Trichlorobenzene

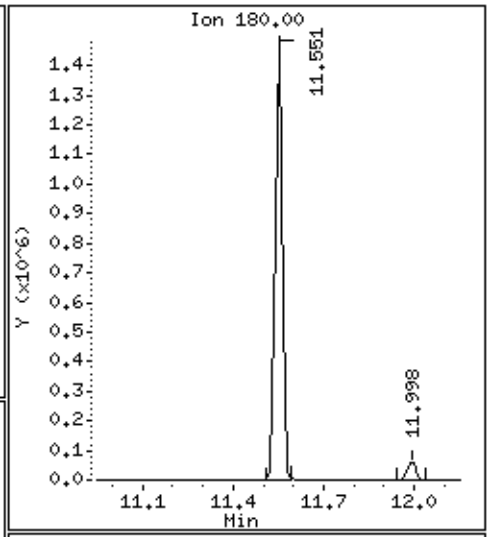
Concentration: 52.136 PPBV

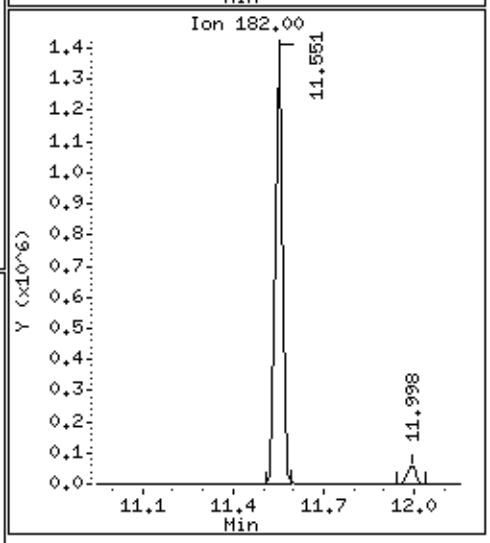












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

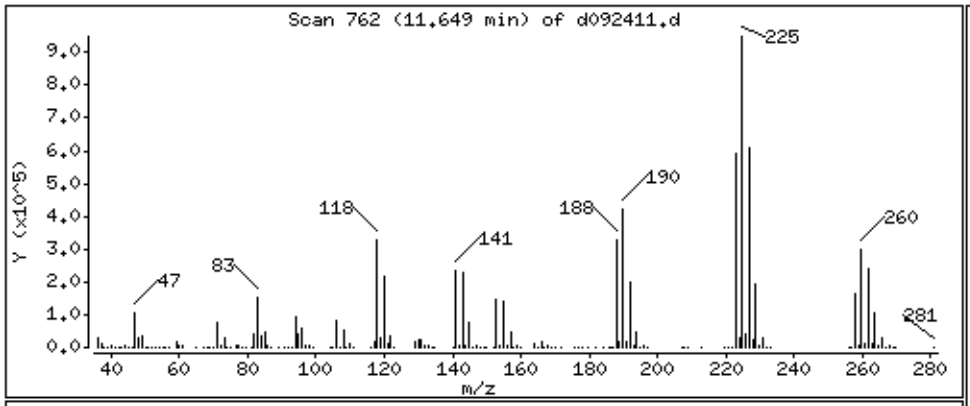
Operator: mtw

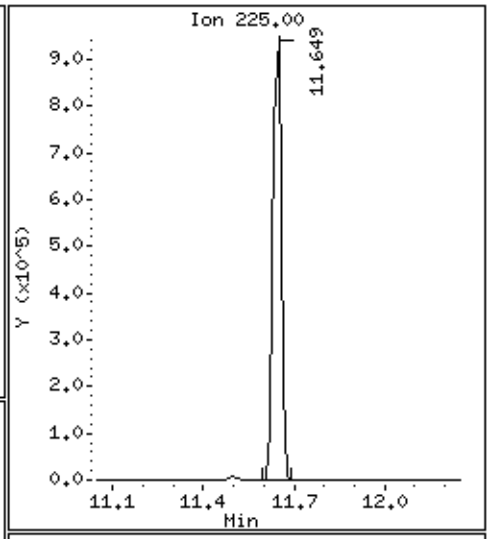
Column phase: RTx-624

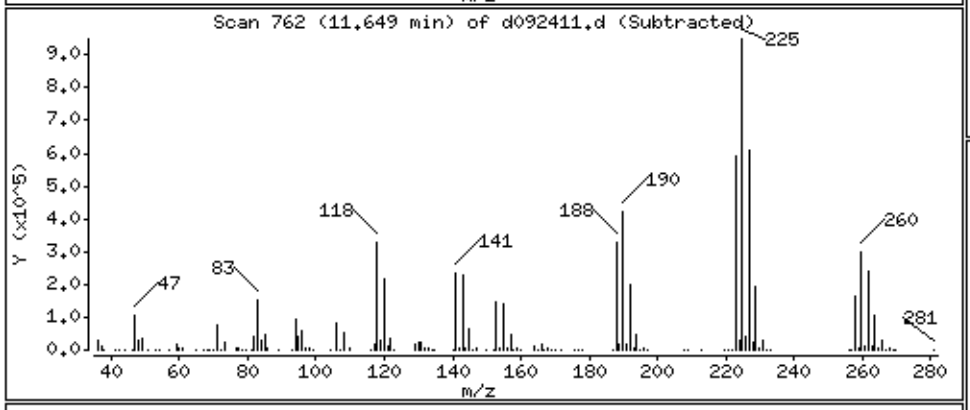
Column diameter: 0.53

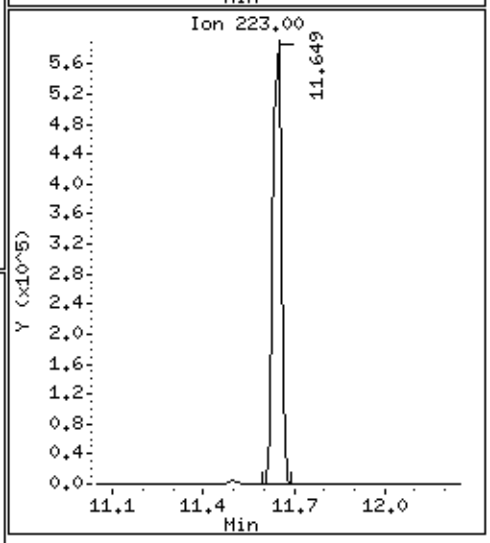
175 Hexachlorobutadiene

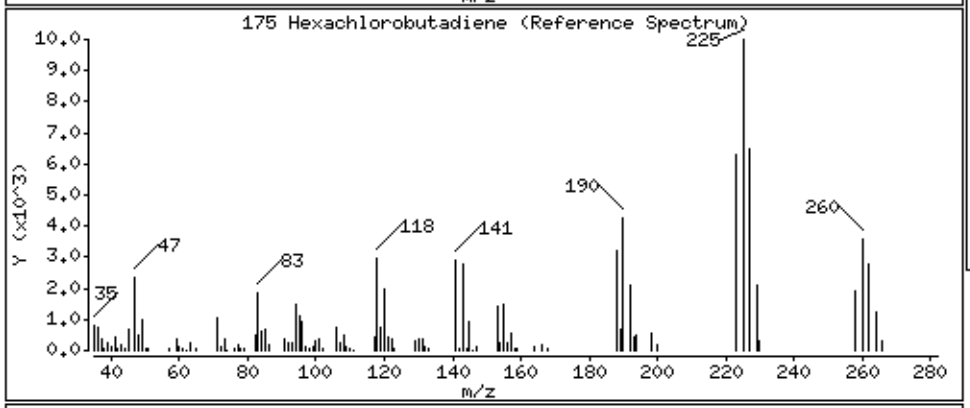
Concentration: 54.209 PPBV

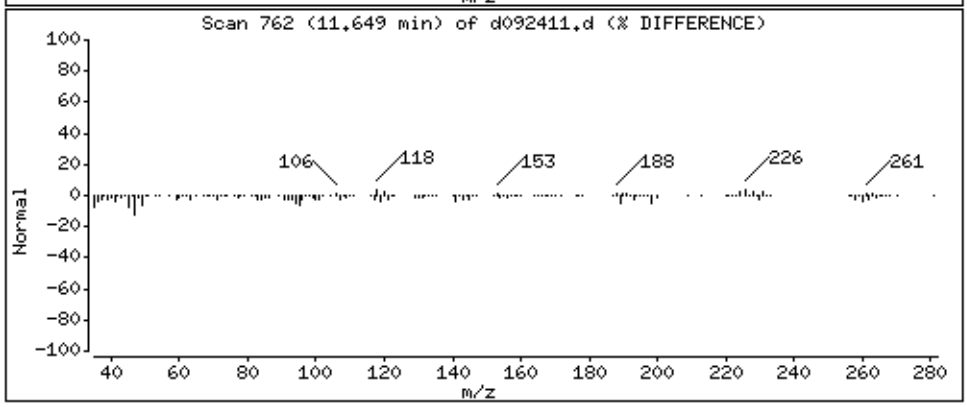












Data File: /chem/msdd.i/24sep10.b/d092411.d

Date : 24-SEP-2010 14:51

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

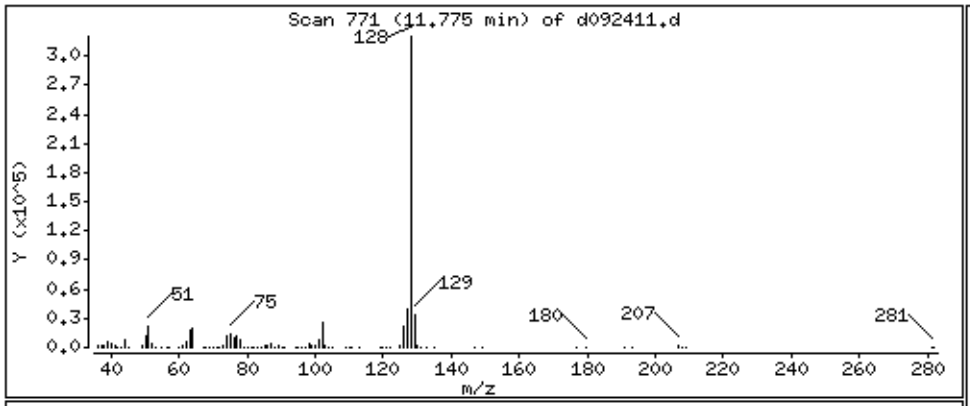
Operator: mtw

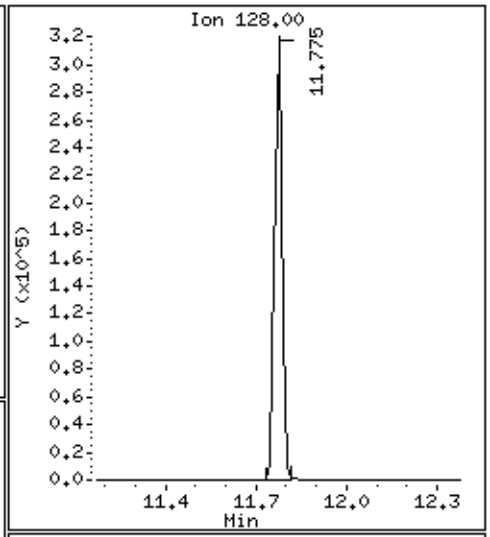
Column phase: RTx-624

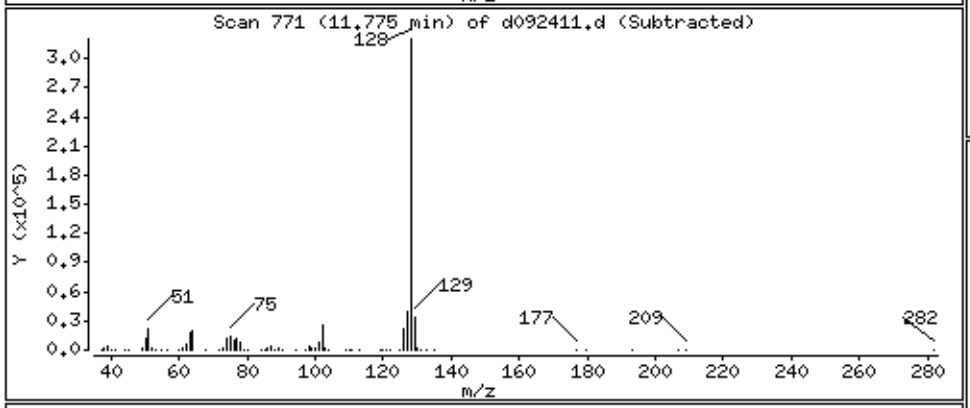
Column diameter: 0.53

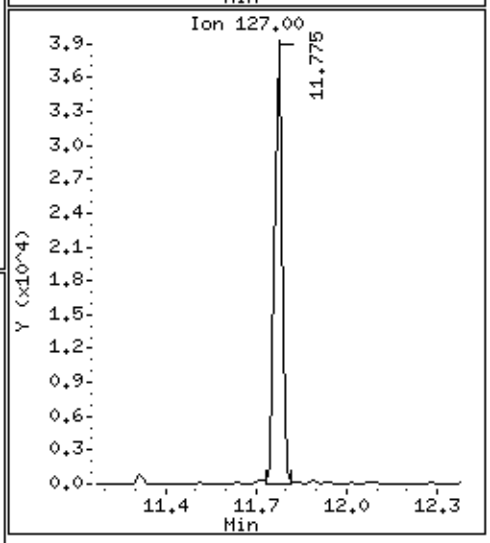
176 Naphthalene

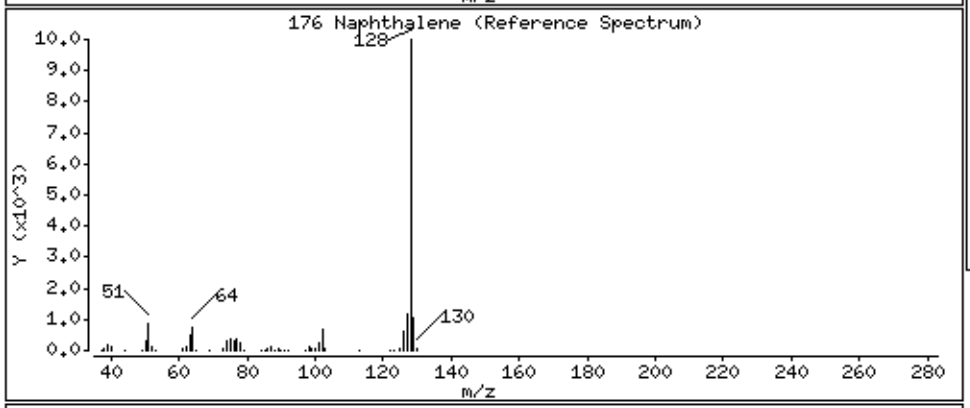
Concentration: 4.786 PPBV

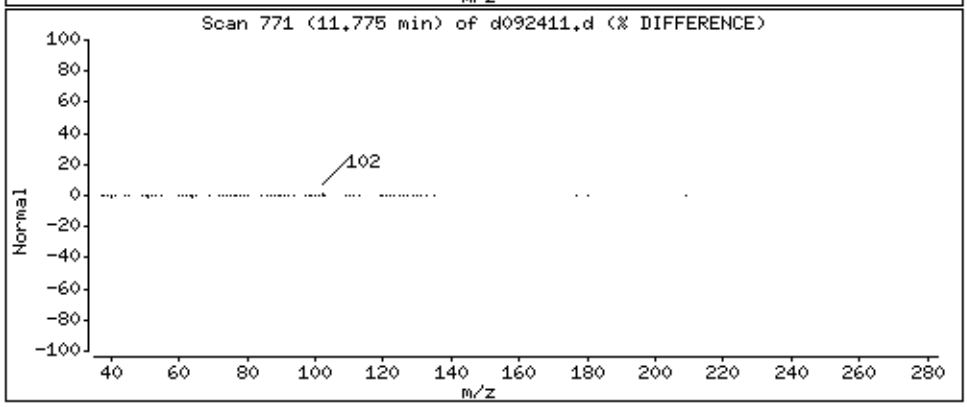












Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092402.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 24-SEP-2010 10:12
Operator : db Inst ID: msdd.i
Smp Info : 30mL #2037-3
Misc Info : 0.3ppbv (2.0ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 13:54 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 10:12 Cal File: d092402.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	244089	25.0000		50.00- 150.00	100.00
4.583	4.583 (1.000)	128	187184			27.30- 127.30	76.69
4.569	4.569 (1.000)	49	348105			89.59- 189.59	142.61
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.492	5.492 (1.000)	114	1039611	25.0000		50.00- 150.00	100.00
5.492	5.492 (1.000)	88	171946			0.00- 66.44	16.54
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.941	7.941 (1.000)	117	1206036	25.0000		50.00- 150.00	100.00
7.941	7.941 (1.000)	82	705402			8.90- 108.90	58.49
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.128	5.128 (1.119)	65	405710	25.0000	25.304	50.00- 150.00	100.00
5.128	5.128 (1.119)	67	199991			2.30- 102.30	49.29
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.723	6.723 (1.224)	98	1213958	25.0000	25.144	50.00- 150.00	100.00
6.723	6.723 (1.224)	70	133265			0.00- 61.02	10.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 114 Toluene-d8 (continued)							
6.723	6.723 (1.224)	100	808007			16.11- 116.11	66.56
$ 149 Bromofluorobenzene						CAS #: 460-00-4	
8.934	8.934 (1.125)	174	756626	25.0000	24.499	50.00- 150.00	100.00
8.920	8.920 (1.123)	95	1039858			87.31- 187.31	137.43
8.934	8.934 (1.125)	176	731403			46.05- 146.05	96.67
156 1,3,5-Trimethylbenzene						CAS #: 108-67-8	
9.242	9.242 (1.164)	120	13082	0.30000	0.3106	50.00- 150.00	100.00(a)
9.242	9.242 (1.164)	105	29752			168.17- 268.17	227.43
162 1,2,4-Trimethylbenzene						CAS #: 95-63-6	
9.564	9.564 (1.204)	120	11180	0.30000	0.2955	50.00- 150.00	100.00(a)
9.564	9.564 (1.204)	105	24651			169.11- 269.11	220.49

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: msdd.i
Lab File ID: d092402.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 0.3ppbv (2.0ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	244089	11.07
100 1,4-Difluorobenze	915405	549243	1281567	1039611	13.57
134 Chlorobenzene-d5	1036280	621768	1450792	1206036	16.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.49	-0.25
134 Chlorobenzene-d5	7.94	7.61	8.27	7.94	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.

Data File: /chem/msdd.i/24sep10.b/d092402.d

Date : 24-SEP-2010 10:12

Client ID: Level 1

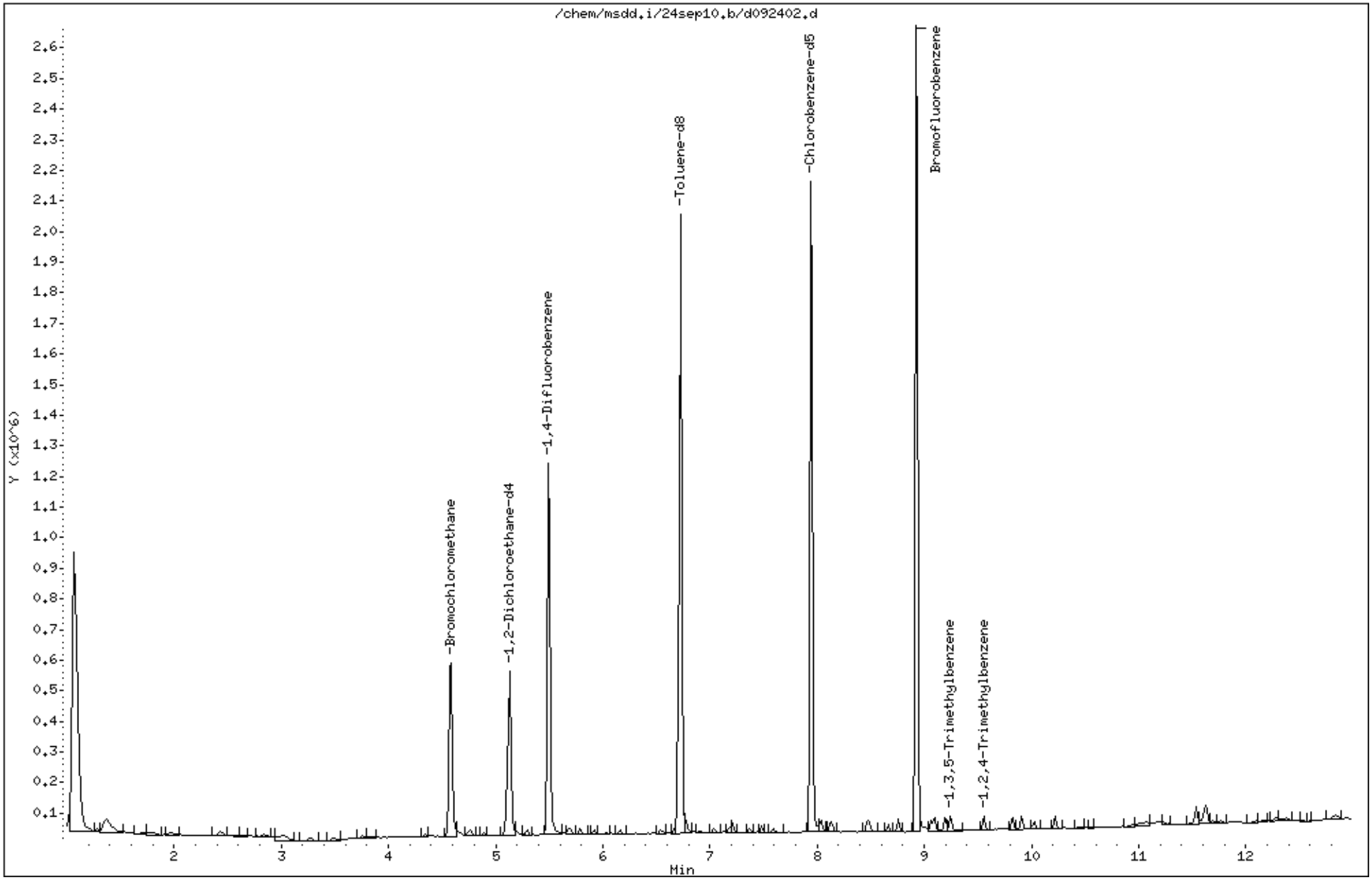
Sample Info: 30mL #2037-3

Column phase: RTx-624

Instrument: msdd.i

Operator: db

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092403.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 24-SEP-2010 10:29
Operator : db Inst ID: msdd.i
Smp Info : 50mL #2037-3
Misc Info : 0.5ppbv (2.0ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 13:54 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 10:29 Cal File: d092403.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	225390	25.0000		50.00- 150.00	100.00
4.583	4.583 (1.000)	128	173505			27.20- 127.20	76.98
4.583	4.583 (1.000)	49	317367			90.00- 190.00	140.81
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	941434	25.0000		50.00- 150.00	100.00
5.492	5.492 (1.000)	88	150477			0.00- 66.29	15.98
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.941	7.941 (1.000)	117	1088914	25.0000		50.00- 150.00	100.00
7.941	7.941 (1.000)	82	636840			8.76- 108.76	58.48
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.128	5.128 (1.119)	65	363178	25.0000	24.685	50.00- 150.00	100.00
5.128	5.128 (1.119)	67	181985			1.57- 101.57	50.11
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.724	6.724 (1.221)	98	1088728	25.0000	24.935	50.00- 150.00	100.00
6.724	6.724 (1.221)	70	125187			0.00- 61.18	11.50

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

$ 114 Toluene-d8 (continued)
  6.724   6.724 (1.221)   100    722531                   16.19- 116.19    66.36
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                           CAS #: 460-00-4
  8.934   8.934 (1.125)   174    686930 25.0000   24.755  50.00- 150.00   100.00
  8.920   8.920 (1.123)    95    939507                   87.13- 187.13   136.77
  8.934   8.934 (1.125)   176    667576                   46.43- 146.43    97.18
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                 CAS #: 75-71-8
  1.197   1.197 (0.261)    85     11670 0.50000   0.4906  50.00- 150.00   100.00(a)
  1.197   1.197 (0.261)    87      3933                    0.00-  82.93    33.70
-------------------------------------------------------------------------------
   10 Freon 114                                    CAS #: 76-14-2
  1.281   1.281 (0.279)   135      8020 0.50000   0.4886  50.00- 150.00   100.00(a)
  1.295   1.295 (0.283)   137      2573                    0.00-  81.88    32.08
-------------------------------------------------------------------------------
   15 Vinyl Chloride                               CAS #: 75-01-4
  1.421   1.421 (0.310)    62      4476 0.50000   0.5346  50.00- 150.00   100.00
  1.421   1.421 (0.310)    64      2035                    0.00-  88.07    45.46
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                CAS #: 106-99-0
  1.449   1.449 (0.316)    54      4769 0.50000   0.5977  50.00- 150.00   100.00
  1.449   1.449 (0.316)    39      6693                   82.98- 182.98   140.34
-------------------------------------------------------------------------------
   24 Bromomethane                                 CAS #: 74-83-9
  1.700   1.700 (0.371)    94      5914 0.50000   0.6194  50.00- 150.00   100.00
  1.714   1.714 (0.374)    96      5500                   43.66- 143.66    93.00
-------------------------------------------------------------------------------
   25 Chloroethane                                 CAS #: 75-00-3
  1.784   1.784 (0.389)    64      3107 0.50000   0.5706  50.00- 150.00   100.00
  1.770   1.770 (0.386)    66      1233                    0.00-  85.44    39.68
  1.784   1.784 (0.389)    49       612                    0.00-  73.91    19.70
-------------------------------------------------------------------------------
   28 Trichlorofluoromethane/Fr11                  CAS #: 75-69-4
  1.966   1.966 (0.429)   101     13366 0.50000   0.4994  50.00- 150.00   100.00(a)
  1.966   1.966 (0.429)   103      9215                   16.89- 116.89    68.94
-------------------------------------------------------------------------------
   33 Freon 113                                    CAS #: 76-13-1
  2.428   2.428 (0.530)   151      7205 0.50000   0.4916  50.00- 150.00   100.00(a)
  2.442   2.442 (0.533)   153      4739                   14.39- 114.39    65.77
  2.428   2.428 (0.530)   101      9308                   77.07- 177.07   129.19
-------------------------------------------------------------------------------
   34 1,1-Dichloroethene                           CAS #: 75-35-4
  2.442   2.442 (0.533)    98      2531 0.50000   0.4722  50.00- 150.00   100.00(a)
  2.456   2.456 (0.536)    96      4849                  123.11- 223.11   191.58
  2.456   2.456 (0.536)    61      8257                  256.84- 356.84   326.23
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	11810	0.50000	0.5019	50.00- 150.00	100.00
46 Methylene Chloride					CAS #: 75-09-2		
3.016	3.016 (0.658)	49	5951	0.50000	0.5313	50.00- 150.00	100.00
3.016	3.016 (0.658)	84	4159			21.59- 121.59	69.89
3.016	3.016 (0.658)	51	2544			0.00- 86.66	42.75
50 MTBE					CAS #: 1634-04-4		
3.268	3.268 (0.713)	73	12843	0.50000	0.5003	50.00- 150.00	100.00
3.254	3.254 (0.710)	57	3647			0.00- 75.31	28.40
3.268	3.268 (0.713)	41	3358			0.00- 74.21	26.15
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.268	3.268 (0.713)	98	2726	0.50000	0.4824	50.00- 150.00	100.00(a)
3.268	3.268 (0.713)	61	6825			199.87- 299.87	250.37
3.282	3.282 (0.716)	96	5247			124.91- 224.91	192.48
58 Hexane					CAS #: 110-54-3		
3.491	3.491 (0.762)	57	9217	0.50000	0.5444	50.00- 150.00	100.00
3.491	3.491 (0.762)	43	5109			6.97- 106.97	55.43
3.491	3.491 (0.762)	86	1120			0.00- 63.95	12.15
64 1,1-Dichloroethane					CAS #: 75-34-3		
3.757	3.757 (0.820)	63	9346	0.50000	0.4951	50.00- 150.00	100.00(a)
3.757	3.757 (0.820)	65	3191			0.00- 82.85	34.14
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.359	4.359 (0.951)	98	3434	0.50000	0.5045	50.00- 150.00	100.00
4.359	4.359 (0.951)	96	5251			103.59- 203.59	152.91
4.345	4.345 (0.948)	61	7502			172.34- 272.34	218.46
75 2-Butanone					CAS #: 78-93-3		
4.415	4.415 (0.963)	72	1819	0.50000	0.4294	50.00- 150.00	100.00(a)
4.401	4.401 (0.960)	43	9596			429.95- 529.95	527.54
4.401	4.401 (0.960)	57	1263			2.58- 102.58	69.43
78 Tetrahydrofuran					CAS #: 109-99-9		
4.597	4.597 (1.003)	42	6688	0.50000	0.5392	50.00- 150.00	100.00
4.611	4.611 (1.006)	71	2113			0.00- 84.23	31.59
4.597	4.597 (1.003)	72	2452			0.00- 89.30	36.66
80 Chloroform					CAS #: 67-66-3		
4.653	4.653 (1.015)	83	12140	0.50000	0.5106	50.00- 150.00	100.00
4.653	4.653 (1.015)	85	6879			10.14- 110.14	56.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
83 Cyclohexane					CAS #: 110-82-7		
4.765	4.765 (1.040)	84	7865	0.50000	0.5304	50.00- 150.00	100.00
4.751	4.751 (1.037)	56	9838			73.25- 173.25	125.09
4.765	4.765 (1.040)	41	5340			16.47- 116.47	67.90
85 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.779	4.779 (1.043)	97	12220	0.50000	0.4957	50.00- 150.00	100.00(a)
4.779	4.779 (1.043)	99	7749			13.53- 113.53	63.41
86 Carbon Tetrachloride					CAS #: 56-23-5		
4.891	4.891 (1.067)	119	8780	0.50000	0.4320	50.00- 150.00	100.00(a)
4.891	4.891 (1.067)	117	8639			50.28- 150.28	98.39
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.114	5.114 (1.116)	57	31283	0.50000	0.5301	50.00- 150.00	100.00
5.128	5.128 (1.119)	56	10270			0.00- 82.45	32.83
5.114	5.114 (1.116)	41	7500			0.00- 74.64	23.97
90 Benzene					CAS #: 71-43-2		
5.114	5.114 (0.929)	78	18822	0.50000	0.5478	50.00- 150.00	100.00
5.101	5.101 (0.926)	77	4291			0.00- 73.15	22.80
94 1,2-Dichloroethane					CAS #: 107-06-2		
5.198	5.198 (0.944)	62	9203	0.50000	0.5071	50.00- 150.00	100.00
5.198	5.198 (0.944)	64	3557			0.00- 85.36	38.65
95 Heptane					CAS #: 142-82-5		
5.296	5.296 (0.962)	71	5819	0.50000	0.4974	50.00- 150.00	100.00(a)
5.296	5.296 (0.962)	43	11542			143.03- 243.03	198.35
5.282	5.282 (0.959)	57	7295			66.44- 166.44	125.37
104 Trichloroethene					CAS #: 79-01-6		
5.688	5.688 (1.033)	95	8251	0.50000	0.5151	50.00- 150.00	100.00
5.688	5.688 (1.033)	130	8342			50.12- 150.12	101.10
5.688	5.688 (1.033)	97	5867			18.12- 118.12	71.11
105 Methyl Cyclohexane					CAS #: 108-87-2		
5.800	5.800 (1.266)	83	11062	0.50000	0.5125	50.00- 150.00	100.00
5.800	5.800 (1.266)	98	4951			0.00- 96.94	44.76
5.786	5.786 (1.263)	55	9737			38.63- 138.63	88.02
106 1,2-Dichloropropane					CAS #: 78-87-5		
5.926	5.926 (1.076)	63	7564	0.50000	0.5298	50.00- 150.00	100.00
5.926	5.926 (1.076)	62	5030			18.88- 118.88	66.50
5.926	5.926 (1.076)	41	5167			13.74- 113.74	68.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
108 Bromodichloromethane					CAS #: 75-27-4		
6.164	6.164 (1.119)	83	13790	0.50000	0.4986	50.00- 150.00	100.00(a)
6.164	6.164 (1.119)	85	8398			12.00- 112.00	60.90
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.542	6.542 (1.188)	75	9944	0.50000	0.4834	50.00- 150.00	100.00(a)
6.542	6.542 (1.188)	77	3544			0.00- 83.69	35.64
6.542	6.542 (1.188)	39	5181			1.68- 101.68	52.10
112 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.668	6.668 (1.211)	58	5790	0.50000	0.4856	50.00- 150.00	100.00(a)
6.668	6.668 (1.211)	43	13216			193.88- 293.88	228.26
6.668	6.668 (1.211)	85	2513			0.00- 92.92	43.40
115 Toluene					CAS #: 108-88-3		
6.780	6.780 (1.231)	91	25133	0.50000	0.5277	50.00- 150.00	100.00
6.780	6.780 (1.231)	92	14718			9.59- 109.59	58.56
118 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.031	7.031 (0.885)	75	11042	0.50000	0.4734	50.00- 150.00	100.00(a)
7.031	7.031 (0.885)	77	4181			0.00- 85.03	37.86
7.031	7.031 (0.885)	39	4982			0.00- 95.67	45.12
120 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.185	7.185 (0.905)	97	8510	0.50000	0.4980	50.00- 150.00	100.00(a)
7.185	7.185 (0.905)	99	4946			9.95- 109.95	58.12
7.185	7.185 (0.905)	83	8086			40.00- 140.00	95.02
122 Tetrachloroethene					CAS #: 127-18-4		
7.213	7.213 (0.908)	166	11881	0.50000	0.5071	50.00- 150.00	100.00
7.213	7.213 (0.908)	129	8280			23.01- 123.01	69.69
7.213	7.213 (0.908)	131	9214			25.62- 125.62	77.55
125 2-Hexanone					CAS #: 591-78-6		
7.367	7.367 (0.928)	58	8560	0.50000	0.4402	50.00- 150.00	100.00(a)
7.367	7.367 (0.928)	43	13881			122.97- 222.97	162.16
7.367	7.367 (0.928)	100	1631			0.00- 69.38	19.05
128 Dibromochloromethane					CAS #: 124-48-1		
7.479	7.479 (0.942)	129	14354	0.50000	0.4747	50.00- 150.00	100.00(a)
7.479	7.479 (0.942)	127	10547			25.14- 125.14	73.48
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.591	7.591 (0.956)	107	13388	0.50000	0.4922	50.00- 150.00	100.00(a)
7.591	7.591 (0.956)	109	13126			46.65- 146.65	98.04

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  135 Chlorobenzene                                CAS #: 108-90-7
  7.969   7.969 (1.004)   112     28640 0.50000   0.5702  50.00- 150.00   100.00
  7.969   7.969 (1.004)   114      9560                    0.00-  82.73    33.38
  7.969   7.969 (1.004)    77     27024                   26.60- 126.60    94.36
-------------------------------------------------------------------------------
  137 Ethyl Benzene                                CAS #: 100-41-4
  8.039   8.039 (1.012)   106     10419 0.50000   0.4836  50.00- 150.00   100.00(a)
  8.039   8.039 (1.012)    91     34501                  275.22- 375.22   331.14
-------------------------------------------------------------------------------
  140 m,p-Xylene                                   CAS #: 108-38-3
  8.137   8.137 (1.025)   106     14152 0.50000   0.5031  50.00- 150.00   100.00
  8.137   8.137 (1.025)    91     25217                  140.02- 240.02   178.19
-------------------------------------------------------------------------------
  141 o-Xylene                                     CAS #: 95-47-6
  8.459   8.459 (1.065)   106     13176 0.50000   0.4910  50.00- 150.00   100.00(a)
  8.459   8.459 (1.065)    91     29609                  168.55- 268.55   224.72
-------------------------------------------------------------------------------
  142 Styrene                                      CAS #: 100-42-5
  8.487   8.487 (1.069)   104     20650 0.50000   0.4808  50.00- 150.00   100.00(a)
  8.487   8.487 (1.069)    78     12108                    5.47- 105.47    58.63
-------------------------------------------------------------------------------
  145 Bromoform                                    CAS #: 75-25-2
  8.668   8.668 (1.092)   173     13496 0.50000   0.4656  50.00- 150.00   100.00(a)
  8.668   8.668 (1.092)   171      6793                    0.89- 100.89    50.33
-------------------------------------------------------------------------------
  147 Cumene                                       CAS #: 98-82-8
  8.752   8.752 (1.102)   105     40388 0.50000   0.4892  50.00- 150.00   100.00(a)
  8.752   8.752 (1.102)   120     10462                    0.00-  76.14    25.90
  8.752   8.752 (1.102)    51      4668                    0.00-  60.77    11.56
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.060   9.060 (1.141)    83     22101 0.50000   0.5043  50.00- 150.00   100.00
  9.060   9.060 (1.141)    85     13086                   11.05- 111.05    59.21
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.146)    91     48048 0.50000   0.4829  50.00- 150.00   100.00(a)
  9.102   9.102 (1.146)   120     11417                    0.00-  73.46    23.76
  9.102   9.102 (1.146)   105      2154                    0.00-  54.10     4.48
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.186   9.186 (1.157)   120     13641 0.50000   0.5111  50.00- 150.00   100.00
  9.186   9.186 (1.157)   105     42470                  277.07- 377.07   311.34
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.242   9.242 (1.164)   120     18594 0.50000   0.4926  50.00- 150.00   100.00(a)
  9.242   9.242 (1.164)   105     38701                  164.82- 264.82   208.14
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
162 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
9.564	9.564 (1.204)	120	16185	0.50000	0.4822	50.00- 150.00	100.00(a)
9.564	9.564 (1.204)	105	35897			170.01- 270.01	221.79
165 1,3-Dichlorobenzene					CAS #: 541-73-1		
9.830	9.830 (1.238)	146	25220	0.50000	0.4962	50.00- 150.00	100.00(a)
9.830	9.830 (1.238)	148	16408			14.41- 114.41	65.06
9.830	9.830 (1.238)	111	10438			0.00- 91.78	41.39
166 1,4-Dichlorobenzene					CAS #: 106-46-7		
9.900	9.900 (1.247)	146	26081	0.50000	0.4994	50.00- 150.00	100.00(a)
9.900	9.900 (1.247)	148	16949			13.90- 113.90	64.99
9.900	9.900 (1.247)	111	11176			0.00- 91.21	42.85
168 alpha-Chlorotoluene					CAS #: 100-44-7		
10.026	10.026 (1.263)	91	27203	0.50000	0.4304	50.00- 150.00	100.00(a)
10.026	10.026 (1.263)	126	5401			0.00- 70.35	19.85
171 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.222	10.222 (1.287)	146	23921	0.50000	0.4931	50.00- 150.00	100.00(a)
10.222	10.222 (1.287)	148	14468			11.97- 111.97	60.48
10.222	10.222 (1.287)	111	10588			0.00- 93.86	44.26

QC Flag Legend

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

Report Date: 27-Sep-2010 13:54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092403.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 0.5ppbv (2.0ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

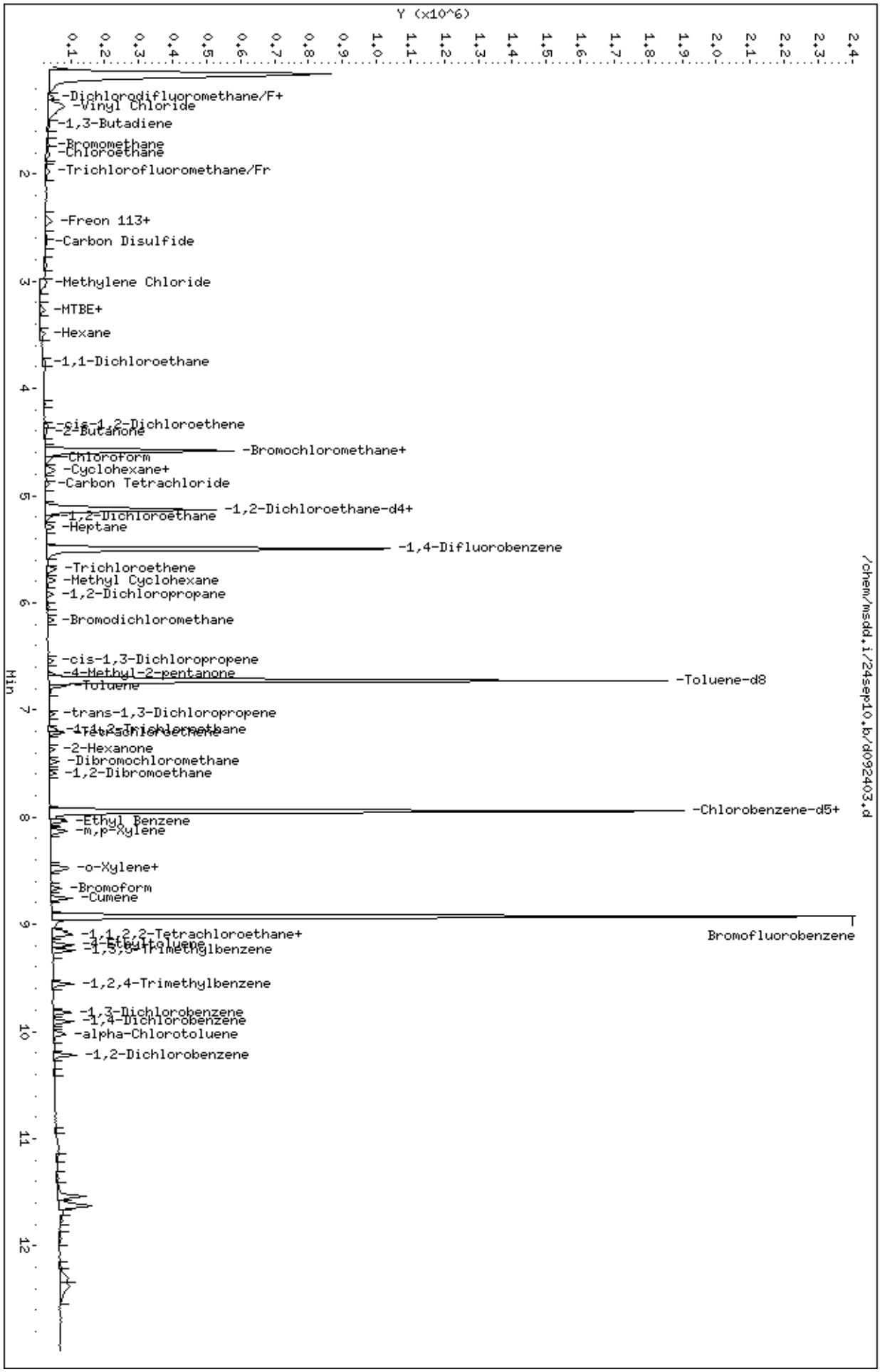
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	225390	2.57
100 1,4-Difluorobenze	915405	549243	1281567	941434	2.84
134 Chlorobenzene-d5	1036280	621768	1450792	1088914	5.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.01
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.94	7.61	8.27	7.94	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.

Data File: /chem/msdd.i/24sep10.b/d092403.d
Date : 24-SEP-2010 10:29
Client ID: Level 2
Sample Info: 50mL #2037-3
Column phase: RTx-624

Instrument: msdd.i
Operator: db
Column diameter: 0.53



Page 1

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092404.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 24-SEP-2010 10:48
Operator : db Inst ID: msdd.i
Smp Info : 200mL #2037-3
Misc Info : 2.0ppbv (2.0ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 13:54 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 10:48 Cal File: d092404.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.597	4.597 (1.000)	130	229411	25.0000		50.00- 150.00	100.00
4.583	4.583 (1.000)	128	181158			27.64- 127.64	78.97
4.583	4.583 (1.000)	49	331793			91.16- 191.16	144.63
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	994297	25.0000		50.00- 150.00	100.00
5.506	5.506 (1.000)	88	163905			0.00- 66.34	16.48
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	1175273	25.0000		50.00- 150.00	100.00
7.955	7.955 (1.000)	82	688121			8.71- 108.71	58.55
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.142	5.142 (1.119)	65	382145	25.0000	25.387	50.00- 150.00	100.00
5.142	5.142 (1.119)	67	190522			1.14- 101.14	49.86
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.737	6.737 (1.224)	98	1169313	25.0000	25.266	50.00- 150.00	100.00
6.737	6.737 (1.224)	70	129492			0.00- 61.15	11.07

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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

$ 114 Toluene-d8 (continued)
  6.737   6.737 (1.224)   100    761983                   15.94- 115.94    65.17
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                            CAS #: 460-00-4
  8.934   8.934 (1.123)   174    747530 25.0000   24.970  50.00- 150.00   100.00
  8.934   8.934 (1.123)    95   1035288                   87.47- 187.47   138.49
  8.934   8.934 (1.123)   176    722431                   46.48- 146.48    96.64
-------------------------------------------------------------------------------
    6 Propylene                                     CAS #: 115-07-1
  1.183   1.183 (0.257)    41     11158 2.00000    1.977  50.00- 150.00   100.00(a)
  1.183   1.183 (0.257)    42      8117                   19.59- 119.59    72.75
  1.183   1.183 (0.257)    39      9532                   31.75- 131.75    85.43
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  1.211   1.211 (0.263)    85     45889 2.00000    1.929  50.00- 150.00   100.00
  1.211   1.211 (0.263)    87     14703                    0.00-  82.63    32.04
-------------------------------------------------------------------------------
   10 Freon 114                                     CAS #: 76-14-2
  1.294   1.294 (0.282)   135     31765 2.00000    1.933  50.00- 150.00   100.00
  1.294   1.294 (0.282)   137     10445                    0.00-  82.21    32.88
-------------------------------------------------------------------------------
   13 Chloromethane                                 CAS #: 74-87-3
  1.350   1.350 (0.294)    50     13052 2.00000    2.338  50.00- 150.00   100.00
  1.336   1.336 (0.291)    52      4184                    0.00-  82.19    32.06
-------------------------------------------------------------------------------
   14 Butane                                        CAS #: 106-97-8
  1.406   1.406 (0.306)    58      4040 2.00000    2.322  50.00- 150.00   100.00(M)
  1.406   1.406 (0.306)    43     31122                  661.21- 761.21   770.35
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                CAS #: 75-01-4
  1.434   1.434 (0.312)    62     15552 2.00000    1.880  50.00- 150.00   100.00
  1.434   1.434 (0.312)    64      5896                    0.00-  88.02    37.91
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                 CAS #: 106-99-0
  1.448   1.448 (0.315)    54     14599 2.00000    1.860  50.00- 150.00   100.00
  1.448   1.448 (0.315)    39     15492                   74.02- 174.02   106.12
-------------------------------------------------------------------------------
   24 Bromomethane                                  CAS #: 74-83-9
  1.714   1.714 (0.373)    94     15455 2.00000    1.707  50.00- 150.00   100.00
  1.714   1.714 (0.373)    96     14315                   43.32- 143.32    92.62
-------------------------------------------------------------------------------
   25 Chloroethane                                  CAS #: 75-00-3
  1.784   1.784 (0.388)    64      9212 2.00000    1.761  50.00- 150.00   100.00
  1.784   1.784 (0.388)    66      3272                    0.00-  85.47    35.52
  1.784   1.784 (0.388)    49      2388                    0.00-  74.58    25.92
-------------------------------------------------------------------------------
```

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   26 Isopentane                                      CAS #: 78-78-4
  1.812   1.812 (0.394)    43     19449 2.00000    1.966  50.00- 150.00   100.00(a)
  1.812   1.812 (0.394)    57     14401                    23.37- 123.37    74.04
-------------------------------------------------------------------------------
   28 Trichlorofluoromethane/Fr11                     CAS #: 75-69-4
  1.966   1.966 (0.428)   101     52144 2.00000    1.942  50.00- 150.00   100.00
  1.966   1.966 (0.428)   103     34533                    16.67- 116.67    66.23
-------------------------------------------------------------------------------
   29 Ethanol                                         CAS #: 64-17-5
  2.204   2.204 (0.479)    45      5772 2.00000    1.848  50.00- 150.00   100.00(a)
  2.204   2.204 (0.479)    43      1609                     0.00-  74.91    27.88
  2.204   2.204 (0.479)    46      2647                     0.00-  92.45    45.86
-------------------------------------------------------------------------------
   33 Freon 113                                       CAS #: 76-13-1
  2.428   2.428 (0.528)   151     29864 2.00000    2.001  50.00- 150.00   100.00
  2.428   2.428 (0.528)   153     18824                    13.94- 113.94    63.03
  2.428   2.428 (0.528)   101     36526                    75.48- 175.48   122.31
-------------------------------------------------------------------------------
   34 1,1-Dichloroethene                              CAS #: 75-35-4
  2.456   2.456 (0.534)    98     11278 2.00000    2.044  50.00- 150.00   100.00
  2.442   2.442 (0.531)    96     17005                   115.67- 215.67   150.78
  2.456   2.456 (0.534)    61     31156                   246.65- 346.65   276.25
-------------------------------------------------------------------------------
   38 Acetone                                         CAS #: 67-64-1
  2.568   2.568 (0.559)    58      9843 2.00000    2.167  50.00- 150.00   100.00
  2.568   2.568 (0.559)    43     33285                   286.07- 386.07   338.16
-------------------------------------------------------------------------------
   40 Carbon Disulfide                                CAS #: 75-15-0
  2.652   2.652 (0.577)    76     45838 2.00000    1.942  50.00- 150.00   100.00
-------------------------------------------------------------------------------
   41 2-Propanol                                      CAS #: 67-63-0
  2.708   2.708 (0.589)    45     30136 2.00000    2.025  50.00- 150.00   100.00
  2.708   2.708 (0.589)    43      6655                     0.00-  73.45    22.08
  2.722   2.722 (0.592)    59      1004                     0.00-  53.78     3.33
-------------------------------------------------------------------------------
   44 3-Chloropropene                                 CAS #: 107-05-1
  2.848   2.848 (0.620)    76      6674 2.00000    1.764  50.00- 150.00   100.00(a)
  2.848   2.848 (0.620)    41     22846                   250.88- 350.88   342.31
-------------------------------------------------------------------------------
   46 Methylene Chloride                              CAS #: 75-09-2
  3.015   3.015 (0.656)    49     21921 2.00000    1.948  50.00- 150.00   100.00
  3.015   3.015 (0.656)    84     16866                    23.37- 123.37    76.94
  3.029   3.029 (0.659)    51      7267                     0.00-  85.49    33.15
-------------------------------------------------------------------------------
   48 tert-Butyl-Alcohol                              CAS #: 75-65-0
  3.155   3.155 (0.686)    59      3717 0.20000   0.1997  50.00- 150.00   100.00(a)
```

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   48 tert-Butyl-Alcohol (continued)
  3.155   3.155 (0.686)    41      1392                     0.00-  87.45    37.45
  3.183   3.183 (0.693)    57      1036                     0.00-  77.87    27.87
-------------------------------------------------------------------------------
   50 MTBE                                          CAS #: 1634-04-4
  3.267   3.267 (0.711)    73     49034 2.00000    1.916  50.00- 150.00   100.00
  3.253   3.253 (0.708)    57     12585                     0.00-  75.43    25.67
  3.267   3.267 (0.711)    41     12627                     0.00-  74.72    25.75
-------------------------------------------------------------------------------
   52 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.281   3.281 (0.714)    98     11748 2.00000    2.028  50.00- 150.00   100.00
  3.267   3.267 (0.711)    61     28698                   198.01- 298.01   244.28
  3.281   3.281 (0.714)    96     19124                   120.87- 220.87   162.79
-------------------------------------------------------------------------------
   58 Hexane                                        CAS #: 110-54-3
  3.505   3.505 (0.763)    57     31942 2.00000    1.900  50.00- 150.00   100.00
  3.505   3.505 (0.763)    43     18105                     6.87- 106.87    56.68
  3.505   3.505 (0.763)    86      4634                     0.00-  64.14    14.51
-------------------------------------------------------------------------------
   63 Isopropyl ether                               CAS #: 108-20-3
  3.771   3.771 (0.820)    45      9715 0.20000   0.2242  50.00- 150.00   100.00(a)
  3.771   3.771 (0.820)    87      2446                     0.00-  78.09    25.18
  3.771   3.771 (0.820)    59       841                     0.00-  61.22     8.66
-------------------------------------------------------------------------------
   64 1,1-Dichloroethane                            CAS #: 75-34-3
  3.771   3.771 (0.820)    63     39355 2.00000    2.032  50.00- 150.00   100.00
  3.771   3.771 (0.820)    65     12208                     0.00-  82.24    31.02
-------------------------------------------------------------------------------
   65 Vinyl Acetate                                 CAS #: 108-05-4
  3.827   3.827 (0.833)    86      3854 2.00000    1.832  50.00- 150.00   100.00(a)
  3.827   3.827 (0.833)    43     43957                  1100.93-1200.93  1140.56
-------------------------------------------------------------------------------
   72 t-Butylethyl Ether                            CAS #: 637-92-3
  4.149   4.149 (0.903)    59      6462 0.20000   0.1890  50.00- 150.00   100.00(a)
  4.135   4.135 (0.900)    87      2647                     0.00-  89.00    40.96
  4.163   4.163 (0.906)    41      1261                     0.00-  69.82    19.51
-------------------------------------------------------------------------------
   74 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.359   4.359 (0.948)    98     12960 2.00000    1.912  50.00- 150.00   100.00
  4.359   4.359 (0.948)    96     20726                   105.70- 205.70   159.92
  4.359   4.359 (0.948)    61     30596                   176.92- 276.92   236.08
-------------------------------------------------------------------------------
   75 2-Butanone                                    CAS #: 78-93-3
  4.401   4.401 (0.957)    72      9056 2.00000    2.066  50.00- 150.00   100.00
  4.401   4.401 (0.957)    43     38235                   410.70- 510.70   422.21
  4.401   4.401 (0.957)    57      3862                     0.00-  99.27    42.65
-------------------------------------------------------------------------------
```

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   78 Tetrahydrofuran                                CAS #: 109-99-9
  4.611   4.611 (1.003)    42     23593 2.00000    1.910  50.00- 150.00   100.00
  4.611   4.611 (1.003)    71      8828                     0.00-  85.30    37.42
  4.611   4.611 (1.003)    72      9357                     0.00-  89.42    39.66
-------------------------------------------------------------------------------
   80 Chloroform                                     CAS #: 67-66-3
  4.667   4.667 (1.015)    83     47695 2.00000    1.980  50.00- 150.00   100.00
  4.667   4.667 (1.015)    85     29744                   10.88- 110.88    62.36
-------------------------------------------------------------------------------
   83 Cyclohexane                                    CAS #: 110-82-7
  4.764   4.764 (1.037)    84     28782 2.00000    1.937  50.00- 150.00   100.00
  4.764   4.764 (1.037)    56     36907                   74.91- 174.91   128.23
  4.764   4.764 (1.037)    41     22463                   20.33- 120.33    78.05
-------------------------------------------------------------------------------
   85 1,1,1-Trichloroethane                          CAS #: 71-55-6
  4.778   4.778 (1.040)    97     47650 2.00000    1.932  50.00- 150.00   100.00
  4.778   4.778 (1.040)    99     31108                   14.11- 114.11    65.28
-------------------------------------------------------------------------------
   86 Carbon Tetrachloride                           CAS #: 56-23-5
  4.904   4.904 (1.067)   119     33833 2.00000    1.741  50.00- 150.00   100.00
  4.904   4.904 (1.067)   117     35683                   52.01- 152.01   105.47
-------------------------------------------------------------------------------
   89 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.128   5.128 (1.116)    57    117828 2.00000    1.974  50.00- 150.00   100.00
  5.128   5.128 (1.116)    56     37809                     0.00-  82.33    32.09
  5.128   5.128 (1.116)    41     31258                     0.00-  75.27    26.53
-------------------------------------------------------------------------------
   90 Benzene                                        CAS #: 71-43-2
  5.114   5.114 (0.929)    78     67719 2.00000    1.909  50.00- 150.00   100.00
  5.114   5.114 (0.929)    77     16487                     0.00-  73.55    24.35
-------------------------------------------------------------------------------
   93 tert-amyl-Methyl Ether                         CAS #: 994-05-8
  5.212   5.212 (1.134)    73      6264 0.20000   0.1947  50.00- 150.00   100.00(a)
  5.212   5.212 (1.134)    87      1658                     0.00-  75.55    26.47
  5.226   5.226 (1.137)    55      2921                     0.00-  91.88    46.63
-------------------------------------------------------------------------------
   94 1,2-Dichloroethane                             CAS #: 107-06-2
  5.212   5.212 (0.947)    62     36525 2.00000    1.936  50.00- 150.00   100.00
  5.212   5.212 (0.947)    64     12599                     0.00-  85.07    34.49
-------------------------------------------------------------------------------
   95 Heptane                                        CAS #: 142-82-5
  5.296   5.296 (0.962)    71     23851 2.00000    1.953  50.00- 150.00   100.00
  5.296   5.296 (0.962)    43     46582                  143.79- 243.79   195.30
  5.296   5.296 (0.962)    57     26220                   64.27- 164.27   109.93
-------------------------------------------------------------------------------
  104 Trichloroethene                                CAS #: 79-01-6
  5.702   5.702 (1.036)    95     33855 2.00000    2.001  50.00- 150.00   100.00
```

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  104 Trichloroethene (continued)
  5.702   5.702 (1.036)   130     32674                    48.92- 148.92    96.51
  5.702   5.702 (1.036)    97     20561                    15.66- 115.66    60.73
-------------------------------------------------------------------------------
  105 Methyl Cyclohexane                           CAS #: 108-87-2
  5.800   5.800 (1.262)    83     45150 2.00000    2.036  50.00- 150.00   100.00
  5.800   5.800 (1.262)    98     21687                     0.00-  97.30    48.03
  5.800   5.800 (1.262)    55     40457                    38.96- 138.96    89.61
-------------------------------------------------------------------------------
  106 1,2-Dichloropropane                          CAS #: 78-87-5
  5.940   5.940 (1.079)    63     27607 2.00000    1.884  50.00- 150.00   100.00
  5.940   5.940 (1.079)    62     20634                    20.83- 120.83    74.74
  5.940   5.940 (1.079)    41     17041                    13.07- 113.07    61.73
-------------------------------------------------------------------------------
  107 1,4-Dioxane                                  CAS #: 123-91-1
  6.038   6.038 (1.097)    88     16638 2.00000    1.966  50.00- 150.00   100.00(a)
  6.038   6.038 (1.097)    58     12422                    25.98- 125.98    74.66
  6.038   6.038 (1.097)    57      5104                     0.00-  78.05    30.68
-------------------------------------------------------------------------------
  108 Bromodichloromethane                         CAS #: 75-27-4
  6.164   6.164 (1.119)    83     51287 2.00000    1.830  50.00- 150.00   100.00
  6.164   6.164 (1.119)    85     32849                    12.68- 112.68    64.05
-------------------------------------------------------------------------------
  110 cis-1,3-Dichloropropene                      CAS #: 10061-01-5
  6.555   6.555 (1.191)    75     39467 2.00000    1.874  50.00- 150.00   100.00
  6.555   6.555 (1.191)    77     13250                     0.00-  83.65    33.57
  6.555   6.555 (1.191)    39     21024                     2.21- 102.21    53.27
-------------------------------------------------------------------------------
  112 4-Methyl-2-pentanone                         CAS #: 108-10-1
  6.681   6.681 (1.213)    58     22970 2.00000    1.879  50.00- 150.00   100.00
  6.681   6.681 (1.213)    43     63906                   205.32- 305.32   278.22
  6.681   6.681 (1.213)    85      9385                     0.00-  92.23    40.86
-------------------------------------------------------------------------------
  115 Toluene                                      CAS #: 108-88-3
  6.793   6.793 (1.234)    91     97643 2.00000    1.960  50.00- 150.00   100.00
  6.793   6.793 (1.234)    92     60034                    10.22- 110.22    61.48
-------------------------------------------------------------------------------
  118 trans-1,3-Dichloropropene                    CAS #: 10061-02-6
  7.045   7.045 (0.886)    75     41719 2.00000    1.758  50.00- 150.00   100.00
  7.045   7.045 (0.886)    77     16465                     0.00-  86.51    39.47
  7.045   7.045 (0.886)    39     20482                     0.00-  96.81    49.10
-------------------------------------------------------------------------------
  120 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.185   7.185 (0.903)    97     34739 2.00000    1.921  50.00- 150.00   100.00
  7.185   7.185 (0.903)    99     22114                    11.18- 111.18    63.66
  7.185   7.185 (0.903)    83     30605                    39.37- 139.37    88.10
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.227	7.227 (0.909)	166	48711	2.00000	1.950	50.00- 150.00	100.00
7.227	7.227 (0.909)	129	37444			24.30- 124.30	76.87
7.227	7.227 (0.909)	131	35701			24.84- 124.84	73.29
125 2-Hexanone					CAS #: 591-78-6		
7.381	7.381 (0.928)	58	35633	2.00000	1.836	50.00- 150.00	100.00(a)
7.381	7.381 (0.928)	43	68116			129.03- 229.03	191.16
7.381	7.381 (0.928)	100	7207			0.00- 69.66	20.23
128 Dibromochloromethane					CAS #: 124-48-1		
7.493	7.493 (0.942)	129	52232	2.00000	1.714	50.00- 150.00	100.00
7.493	7.493 (0.942)	127	40870			26.18- 126.18	78.25
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.605	7.605 (0.956)	107	57285	2.00000	1.967	50.00- 150.00	100.00
7.605	7.605 (0.956)	109	54404			46.09- 146.09	94.97
135 Chlorobenzene					CAS #: 108-90-7		
7.983	7.983 (1.004)	112	117608	2.00000	2.110	50.00- 150.00	100.00
7.983	7.983 (1.004)	114	37478			0.00- 82.44	31.87
7.983	7.983 (1.004)	77	79588			23.63- 123.63	67.67
137 Ethyl Benzene					CAS #: 100-41-4		
8.053	8.053 (1.012)	106	46104	2.00000	1.988	50.00- 150.00	100.00
8.039	8.039 (1.011)	91	147119			273.18- 373.18	319.10
140 m,p-Xylene					CAS #: 108-38-3		
8.150	8.150 (1.025)	106	61441	2.00000	2.016	50.00- 150.00	100.00
8.150	8.150 (1.025)	91	121449			142.57- 242.57	197.67
141 o-Xylene					CAS #: 95-47-6		
8.472	8.472 (1.065)	106	59192	2.00000	2.029	50.00- 150.00	100.00
8.472	8.472 (1.065)	91	121633			164.20- 264.20	205.49
142 Styrene					CAS #: 100-42-5		
8.500	8.500 (1.069)	104	89069	2.00000	1.947	50.00- 150.00	100.00
8.500	8.500 (1.069)	78	45021			3.83- 103.83	50.55
145 Bromoform					CAS #: 75-25-2		
8.682	8.682 (1.091)	173	48526	2.00000	1.676	50.00- 150.00	100.00
8.682	8.682 (1.091)	171	24635			0.85- 100.85	50.77
147 Cumene					CAS #: 98-82-8		
8.766	8.766 (1.102)	105	174818	2.00000	1.974	50.00- 150.00	100.00
8.766	8.766 (1.102)	120	47031			0.00- 76.40	26.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
147 Cumene (continued)							
8.766	8.766 (1.102)	51	18651			0.00- 60.74	10.67
151 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.074	9.074 (1.141)	83	91400	2.00000	1.954	50.00- 150.00	100.00
9.074	9.074 (1.141)	85	56191			11.19- 111.19	61.48
153 Propylbenzene					CAS #: 103-65-1		
9.102	9.102 (1.144)	91	215651	2.00000	2.005	50.00- 150.00	100.00
9.116	9.116 (1.146)	120	50236			0.00- 73.41	23.30
9.116	9.116 (1.146)	105	9811			0.00- 54.25	4.55
155 4-Ethyltoluene					CAS #: 622-96-8		
9.200	9.200 (1.157)	120	55399	2.00000	1.948	50.00- 150.00	100.00
9.200	9.200 (1.157)	105	190246			282.52- 382.52	343.41
156 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.256	9.256 (1.164)	120	78009	2.00000	1.935	50.00- 150.00	100.00
9.256	9.256 (1.164)	105	158492			161.91- 261.91	203.17
162 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
9.578	9.578 (1.204)	120	69763	2.00000	1.944	50.00- 150.00	100.00
9.578	9.578 (1.204)	105	148865			168.35- 268.35	213.39
165 1,3-Dichlorobenzene					CAS #: 541-73-1		
9.844	9.844 (1.237)	146	109501	2.00000	1.997	50.00- 150.00	100.00
9.844	9.844 (1.237)	148	69884			14.21- 114.21	63.82
9.830	9.830 (1.236)	111	46952			0.00- 92.15	42.88
166 1,4-Dichlorobenzene					CAS #: 106-46-7		
9.913	9.913 (1.246)	146	114102	2.00000	2.016	50.00- 150.00	100.00
9.913	9.913 (1.246)	148	70172			13.10- 113.10	61.50
9.913	9.913 (1.246)	111	44926			0.00- 90.59	39.37
168 alpha-Chlorotoluene					CAS #: 100-44-7		
10.039	10.039 (1.262)	91	100648	2.00000	1.617	50.00- 150.00	100.00
10.039	10.039 (1.262)	126	20749			0.00- 70.44	20.62
171 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.235	10.235 (1.287)	146	105634	2.00000	2.012	50.00- 150.00	100.00
10.235	10.235 (1.287)	148	67251			12.53- 112.53	63.66
10.235	10.235 (1.287)	111	45410			0.00- 93.57	42.99
174 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.551	11.551 (1.452)	180	104070	2.00000	2.098	50.00- 150.00	100.00
11.551	11.551 (1.452)	182	99738			45.24- 145.24	95.84

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene						CAS #: 87-68-3		
11.634	11.634	(1.463)	225	74702	2.00000	2.068	50.00- 150.00	100.00
11.648	11.648	(1.464)	223	109447			54.45- 154.45	146.51
176 Naphthalene						CAS #: 91-20-3		
11.774	11.774	(1.480)	128	23626	0.20000	0.2032	50.00- 150.00	100.00(a)
11.774	11.774	(1.480)	127	3363			0.00- 63.32	14.23

QC Flag Legend

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

Report Date: 27-Sep-2010 13:54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092404.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 2.0ppbv (2.0ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

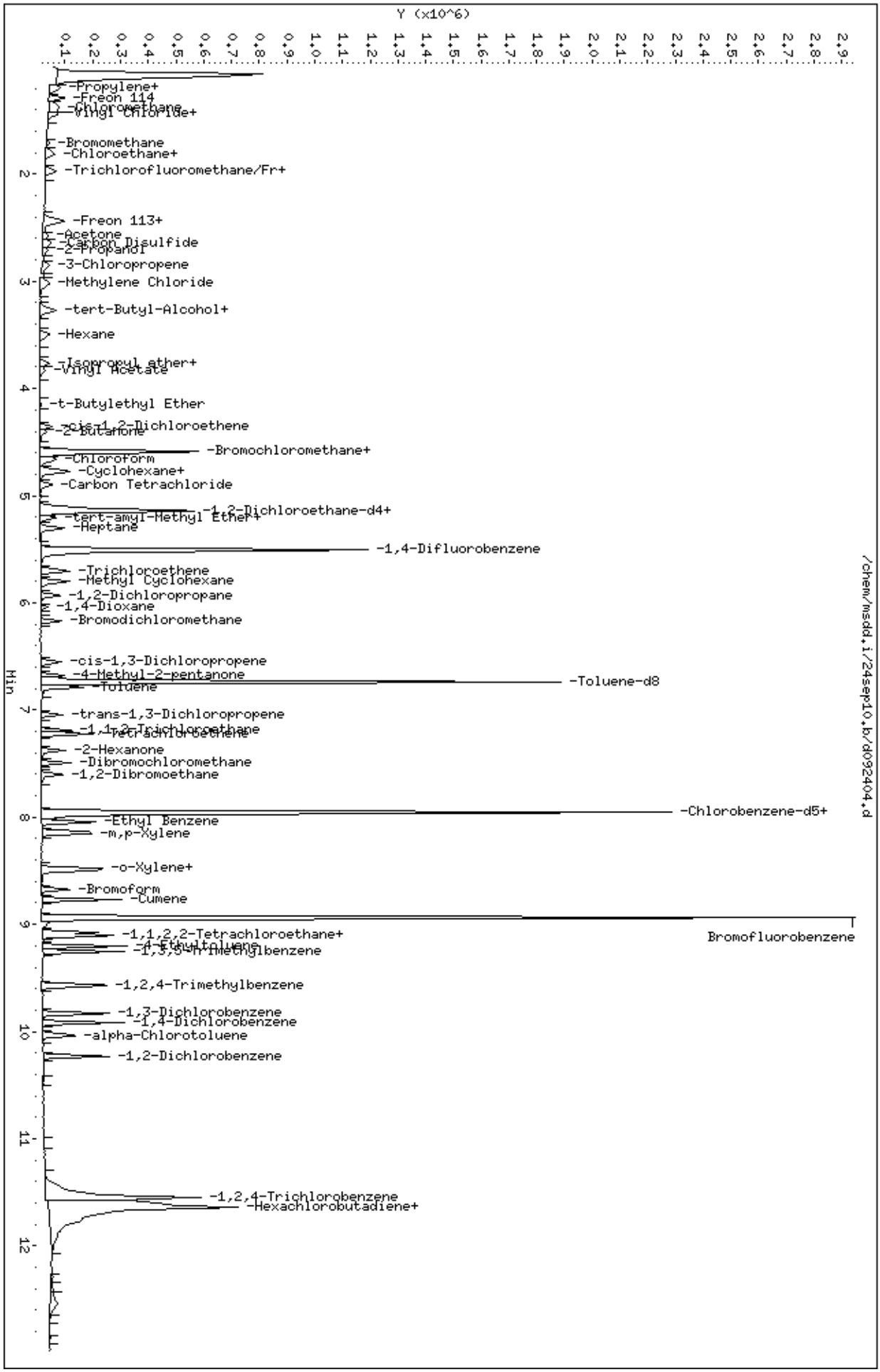
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	229411	4.39
100 1,4-Difluorobenze	915405	549243	1281567	994297	8.62
134 Chlorobenzene-d5	1036280	621768	1450792	1175273	13.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.60	0.31
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.94	7.61	8.27	7.95	0.18

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.

Data File: /chem/msdd.i/24sep10.b/d092404.d
Date : 24-SEP-2010 10:48
Client ID: Level 3
Sample Info: 200mL #2037-3
Column phase: RTx-624

Instrument: msdd.i
Operator: db
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092405.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 24-SEP-2010 11:26
Operator : mtw Inst ID: msdd.i
Smp Info : 25mL #1936-309
Misc Info : 25ppbv (200ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 13:54 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 11:26 Cal File: d092405.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	241237	25.0000		50.00- 150.00	100.00
4.583	4.583 (1.000)	128	188856			27.77- 127.77	78.29
4.569	4.569 (1.000)	49	336079			90.79- 190.79	139.31
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.492	5.492 (1.000)	114	1025981	25.0000		50.00- 150.00	100.00
5.492	5.492 (1.000)	88	166150			0.00- 66.31	16.19
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.941	7.941 (1.000)	117	1176487	25.0000		50.00- 150.00	100.00
7.941	7.941 (1.000)	82	695515			8.79- 108.79	59.12
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.128	5.128 (1.119)	65	398610	25.0000	25.146	50.00- 150.00	100.00
5.128	5.128 (1.119)	67	211867			1.54- 101.54	53.15
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.723	6.723 (1.224)	98	1187827	25.0000	24.899	50.00- 150.00	100.00
6.723	6.723 (1.224)	70	134567			0.00- 61.19	11.33

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

$ 114 Toluene-d8 (continued)
  6.723   6.723 (1.224)   100    795633                   16.14- 116.14    66.98
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                            CAS #: 460-00-4
  8.934   8.934 (1.125)   174    757211 25.0000   25.213  50.00- 150.00   100.00
  8.920   8.920 (1.123)    95   1036084                   87.34- 187.34   136.83
  8.934   8.934 (1.125)   176    731819                   46.52- 146.52    96.65
-------------------------------------------------------------------------------
    6 Propylene                                     CAS #: 115-07-1
  1.169   1.169 (0.255)    41    155978 25.0000   25.842  50.00- 150.00   100.00
  1.169   1.169 (0.255)    42    109324                   19.75- 119.75    70.09
  1.169   1.169 (0.255)    39    123252                   30.84- 130.84    79.02
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  1.197   1.197 (0.261)    85    674514 25.0000   26.444  50.00- 150.00   100.00
  1.197   1.197 (0.261)    87    218298                    0.00-  82.57    32.36
-------------------------------------------------------------------------------
   10 Freon 114                                     CAS #: 76-14-2
  1.295   1.295 (0.282)   135    451131 25.0000   25.822  50.00- 150.00   100.00
  1.295   1.295 (0.282)   137    140833                    0.00-  81.96    31.22
-------------------------------------------------------------------------------
   13 Chloromethane                                 CAS #: 74-87-3
  1.337   1.337 (0.292)    50    146155 25.0000   24.928  50.00- 150.00   100.00
  1.337   1.337 (0.292)    52     44295                    0.00-  81.56    30.31
-------------------------------------------------------------------------------
   14 Butane                                        CAS #: 106-97-8
  1.407   1.407 (0.307)    58     44742 25.0000   24.638  50.00- 150.00   100.00
  1.407   1.407 (0.307)    43    286609                  637.67- 737.67   640.58
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                CAS #: 75-01-4
  1.421   1.421 (0.310)    62    221283 25.0000   25.326  50.00- 150.00   100.00
  1.421   1.421 (0.310)    64     67503                    0.00-  86.14    30.51
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                 CAS #: 106-99-0
  1.449   1.449 (0.316)    54    175264 25.0000   22.070  50.00- 150.00   100.00
  1.449   1.449 (0.316)    39    230658                   75.92- 175.92   131.61
-------------------------------------------------------------------------------
   24 Bromomethane                                  CAS #: 74-83-9
  1.700   1.700 (0.371)    94    192409 25.0000   21.224  50.00- 150.00   100.00
  1.700   1.700 (0.371)    96    176425                   42.91- 142.91    91.69
-------------------------------------------------------------------------------
   25 Chloroethane                                  CAS #: 75-00-3
  1.770   1.770 (0.386)    64    130424 25.0000   24.022  50.00- 150.00   100.00
  1.770   1.770 (0.386)    66     41134                    0.00-  84.49    31.54
  1.770   1.770 (0.386)    49     36185                    0.00-  75.37    27.74
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
26 Isopentane					CAS #: 78-78-4		
1.812	1.812 (0.395)	43	270117	25.0000	25.634	50.00- 150.00	100.00
1.798	1.798 (0.392)	57	198652			23.43- 123.43	73.54
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
1.966	1.966 (0.429)	101	729009	25.0000	25.610	50.00- 150.00	100.00
1.966	1.966 (0.429)	103	474699			16.28- 116.28	65.12
29 Ethanol					CAS #: 64-17-5		
2.176	2.176 (0.475)	45	91925	25.0000	26.918	50.00- 150.00	100.00
2.176	2.176 (0.475)	43	18349			0.00- 73.26	19.96
2.176	2.176 (0.475)	46	33057			0.00- 90.29	35.96
33 Freon 113					CAS #: 76-13-1		
2.428	2.428 (0.530)	151	397980	25.0000	25.272	50.00- 150.00	100.00
2.428	2.428 (0.530)	153	254337			13.93- 113.93	63.91
2.428	2.428 (0.530)	101	513717			76.38- 176.38	129.08
34 1,1-Dichloroethene					CAS #: 75-35-4		
2.442	2.442 (0.533)	98	152713	25.0000	25.980	50.00- 150.00	100.00
2.442	2.442 (0.533)	96	239653			113.48- 213.48	156.93
2.442	2.442 (0.533)	61	441882			244.82- 344.82	289.35
38 Acetone					CAS #: 67-64-1		
2.554	2.554 (0.557)	58	109139	25.0000	23.521	50.00- 150.00	100.00
2.554	2.554 (0.557)	43	375301			288.67- 388.67	343.87
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	629946	25.0000	25.281	50.00- 150.00	100.00
41 2-Propanol					CAS #: 67-63-0		
2.694	2.694 (0.588)	45	387413	25.0000	24.835	50.00- 150.00	100.00
2.694	2.694 (0.588)	43	90584			0.00- 73.43	23.38
2.694	2.694 (0.588)	59	15992			0.00- 53.90	4.13
44 3-Chloropropene					CAS #: 107-05-1		
2.848	2.848 (0.621)	76	115444	25.0000	27.541	50.00- 150.00	100.00
2.834	2.834 (0.618)	41	291994			234.90- 334.90	252.93
46 Methylene Chloride					CAS #: 75-09-2		
3.002	3.002 (0.655)	49	284514	25.0000	24.274	50.00- 150.00	100.00
3.016	3.016 (0.658)	84	206218			23.15- 123.15	72.48
3.016	3.016 (0.658)	51	86680			0.00- 84.23	30.47
48 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.156	3.156 (0.689)	59	48266	2.50000	2.477	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
48 tert-Butyl-Alcohol (continued)							
3.156	3.156 (0.689)	41	11402			0.00- 87.45	23.62
3.142	3.142 (0.686)	57	3664			0.00- 77.87	7.59
50 MTBE					CAS #: 1634-04-4		
3.253	3.253 (0.710)	73	698252	25.0000	25.704	50.00- 150.00	100.00
3.253	3.253 (0.710)	57	158582			0.00- 74.75	22.71
3.239	3.239 (0.707)	41	160759			0.00- 74.30	23.02
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.267	3.267 (0.713)	98	156853	25.0000	25.559	50.00- 150.00	100.00
3.267	3.267 (0.713)	61	398519			199.52- 299.52	254.07
3.267	3.267 (0.713)	96	250507			118.08- 218.08	159.71
58 Hexane					CAS #: 110-54-3		
3.491	3.491 (0.762)	57	416310	25.0000	23.895	50.00- 150.00	100.00
3.491	3.491 (0.762)	43	252978			7.84- 107.84	60.77
3.491	3.491 (0.762)	86	68435			0.00- 64.71	16.44
63 Isopropyl ether					CAS #: 108-20-3		
3.771	3.771 (0.823)	45	102002	2.50000	2.319	50.00- 150.00	100.00
3.757	3.757 (0.820)	87	33653			0.00- 79.72	32.99
3.771	3.771 (0.823)	59	13700			0.00- 61.96	13.43
64 1,1-Dichloroethane					CAS #: 75-34-3		
3.757	3.757 (0.820)	63	519588	25.0000	25.382	50.00- 150.00	100.00
3.757	3.757 (0.820)	65	161316			0.00- 81.94	31.05
65 Vinyl Acetate					CAS #: 108-05-4		
3.813	3.813 (0.832)	86	58043	25.0000	25.816	50.00- 150.00	100.00
3.813	3.813 (0.832)	43	685508			1110.96-1210.96	1181.03
72 t-Butylethyl Ether					CAS #: 637-92-3		
4.135	4.135 (0.902)	59	96392	2.50000	2.618	50.00- 150.00	100.00
4.135	4.135 (0.902)	87	36693			0.00- 88.69	38.07
4.135	4.135 (0.902)	41	19402			0.00- 69.92	20.13
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.345	4.345 (0.948)	98	182166	25.0000	25.415	50.00- 150.00	100.00
4.345	4.345 (0.948)	96	284369			105.80- 205.80	156.10
4.345	4.345 (0.948)	61	413548			176.95- 276.95	227.02
75 2-Butanone					CAS #: 78-93-3		
4.387	4.387 (0.957)	72	131911	25.0000	27.618	50.00- 150.00	100.00
4.387	4.387 (0.957)	43	566650			402.92- 502.92	429.57
4.387	4.387 (0.957)	57	50757			0.00- 96.57	38.48

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   78 Tetrahydrofuran                                CAS #: 109-99-9
  4.583   4.583 (1.000)    42    312128 25.0000   24.270  50.00- 150.00   100.00
  4.583   4.583 (1.000)    71    116448                    0.00-  85.80    37.31
  4.583   4.583 (1.000)    72    129393                    0.00-  89.93    41.46
-------------------------------------------------------------------------------
   80 Chloroform                                     CAS #: 67-66-3
  4.653   4.653 (1.015)    83    640752 25.0000   25.225  50.00- 150.00   100.00
  4.653   4.653 (1.015)    85    403947                   11.42- 111.42    63.04
-------------------------------------------------------------------------------
   83 Cyclohexane                                    CAS #: 110-82-7
  4.751   4.751 (1.037)    84    392484 25.0000   25.088  50.00- 150.00   100.00
  4.751   4.751 (1.037)    56    479349                   74.22- 174.22   122.13
  4.751   4.751 (1.037)    41    256761                   19.10- 119.10    65.42
-------------------------------------------------------------------------------
   85 1,1,1-Trichloroethane                          CAS #: 71-55-6
  4.765   4.765 (1.040)    97    684300 25.0000   26.020  50.00- 150.00   100.00
  4.765   4.765 (1.040)    99    442083                   14.24- 114.24    64.60
-------------------------------------------------------------------------------
   86 Carbon Tetrachloride                           CAS #: 56-23-5
  4.891   4.891 (1.067)   119    628696 25.0000   29.091  50.00- 150.00   100.00
  4.891   4.891 (1.067)   117    648798                   52.31- 152.31   103.20
-------------------------------------------------------------------------------
   89 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.114   5.114 (1.116)    57   1552636 25.0000   24.805  50.00- 150.00   100.00
  5.114   5.114 (1.116)    56    503323                    0.00-  82.35    32.42
  5.114   5.114 (1.116)    41    399220                    0.00-  75.38    25.71
-------------------------------------------------------------------------------
   90 Benzene                                        CAS #: 71-43-2
  5.100   5.100 (0.929)    78    883917 25.0000   24.354  50.00- 150.00   100.00
  5.100   5.100 (0.929)    77    208901                    0.00-  73.57    23.63
-------------------------------------------------------------------------------
   93 tert-amyl-Methyl Ether                         CAS #: 994-05-8
  5.198   5.198 (1.134)    73     92097 2.50000    2.644  50.00- 150.00   100.00
  5.198   5.198 (1.134)    87     23022                    0.00-  75.37    25.00
  5.198   5.198 (1.134)    55     33041                    0.00-  89.88    35.88
-------------------------------------------------------------------------------
   94 1,2-Dichloroethane                             CAS #: 107-06-2
  5.198   5.198 (0.946)    62    497708 25.0000   25.424  50.00- 150.00   100.00
  5.198   5.198 (0.946)    64    159871                    0.00-  84.34    32.12
-------------------------------------------------------------------------------
   95 Heptane                                        CAS #: 142-82-5
  5.282   5.282 (0.962)    71    331593 25.0000   25.973  50.00- 150.00   100.00
  5.282   5.282 (0.962)    43    609707                  141.31- 241.31   183.87
  5.282   5.282 (0.962)    57    334538                   60.93- 160.93   100.89
-------------------------------------------------------------------------------
  104 Trichloroethene                                CAS #: 79-01-6
  5.688   5.688 (1.036)    95    438761 25.0000   25.097  50.00- 150.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
104 Trichloroethene (continued)							
5.688	5.688 (1.036)	130	437246			49.10- 149.10	99.65
5.688	5.688 (1.036)	97	283882			15.42- 115.42	64.70
105 Methyl Cyclohexane					CAS #: 108-87-2		
5.786	5.786 (1.263)	83	595849	25.0000	25.416	50.00- 150.00	100.00
5.786	5.786 (1.263)	98	295741			0.00- 97.89	49.63
5.786	5.786 (1.263)	55	529933			38.95- 138.95	88.94
106 1,2-Dichloropropane					CAS #: 78-87-5		
5.926	5.926 (1.079)	63	383903	25.0000	25.290	50.00- 150.00	100.00
5.926	5.926 (1.079)	62	270087			20.71- 120.71	70.35
5.912	5.912 (1.076)	41	223099			11.83- 111.83	58.11
107 1,4-Dioxane					CAS #: 123-91-1		
6.024	6.024 (1.097)	88	230351	25.0000	25.906	50.00- 150.00	100.00
6.024	6.024 (1.097)	58	177611			26.36- 126.36	77.10
6.024	6.024 (1.097)	57	58634			0.00- 77.19	25.45
108 Bromodichloromethane					CAS #: 75-27-4		
6.150	6.150 (1.120)	83	786637	25.0000	26.618	50.00- 150.00	100.00
6.150	6.150 (1.120)	85	485767			12.45- 112.45	61.75
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.542	6.542 (1.191)	75	588948	25.0000	26.541	50.00- 150.00	100.00
6.542	6.542 (1.191)	77	189167			0.00- 83.27	32.12
6.542	6.542 (1.191)	39	297719			1.80- 101.80	50.55
112 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.667	6.667 (1.214)	58	351522	25.0000	27.092	50.00- 150.00	100.00
6.667	6.667 (1.214)	43	901077			205.58- 305.58	256.34
6.667	6.667 (1.214)	85	140973			0.00- 91.70	40.10
115 Toluene					CAS #: 108-88-3		
6.779	6.779 (1.234)	91	1278393	25.0000	24.904	50.00- 150.00	100.00
6.779	6.779 (1.234)	92	774923			10.32- 110.32	60.62
118 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.031	7.031 (0.885)	75	650794	25.0000	26.752	50.00- 150.00	100.00
7.031	7.031 (0.885)	77	208773			0.00- 85.40	32.08
7.031	7.031 (0.885)	39	305164			0.00- 96.83	46.89
120 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.171	7.171 (0.903)	97	474962	25.0000	25.914	50.00- 150.00	100.00
7.171	7.171 (0.903)	99	292764			11.30- 111.30	61.64
7.171	7.171 (0.903)	83	408241			38.51- 138.51	85.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.213	7.213 (0.908)	166	633647	25.0000	25.257	50.00- 150.00	100.00
7.213	7.213 (0.908)	129	474368			24.44- 124.44	74.86
7.213	7.213 (0.908)	131	468882			24.63- 124.63	74.00
125 2-Hexanone					CAS #: 591-78-6		
7.367	7.367 (0.928)	58	519935	25.0000	26.153	50.00- 150.00	100.00
7.367	7.367 (0.928)	43	961195			130.49- 230.49	184.87
7.367	7.367 (0.928)	100	106014			0.00- 69.85	20.39
128 Dibromochloromethane					CAS #: 124-48-1		
7.479	7.479 (0.942)	129	858464	25.0000	27.291	50.00- 150.00	100.00
7.479	7.479 (0.942)	127	662666			26.43- 126.43	77.19
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.591	7.591 (0.956)	107	757475	25.0000	25.733	50.00- 150.00	100.00
7.591	7.591 (0.956)	109	722403			45.91- 145.91	95.37
135 Chlorobenzene					CAS #: 108-90-7		
7.969	7.969 (1.004)	112	1184652	25.0000	22.062	50.00- 150.00	100.00
7.969	7.969 (1.004)	114	382625			0.00- 82.41	32.30
7.969	7.969 (1.004)	77	696579			19.92- 119.92	58.80
137 Ethyl Benzene					CAS #: 100-41-4		
8.039	8.039 (1.012)	106	608280	25.0000	25.895	50.00- 150.00	100.00
8.039	8.039 (1.012)	91	1912087			270.97- 370.97	314.34
140 m,p-Xylene					CAS #: 108-38-3		
8.137	8.137 (1.025)	106	782754	25.0000	25.488	50.00- 150.00	100.00
8.137	8.137 (1.025)	91	1541298			143.65- 243.65	196.91
141 o-Xylene					CAS #: 95-47-6		
8.458	8.458 (1.065)	106	755228	25.0000	25.641	50.00- 150.00	100.00
8.458	8.458 (1.065)	91	1593385			163.39- 263.39	210.98
142 Styrene					CAS #: 100-42-5		
8.486	8.486 (1.069)	104	1242436	25.0000	26.566	50.00- 150.00	100.00
8.486	8.486 (1.069)	78	636699			3.18- 103.18	51.25
145 Bromoform					CAS #: 75-25-2		
8.668	8.668 (1.092)	173	836848	25.0000	27.802	50.00- 150.00	100.00
8.668	8.668 (1.092)	171	430231			0.99- 100.99	51.41
147 Cumene					CAS #: 98-82-8		
8.752	8.752 (1.102)	105	2304853	25.0000	25.745	50.00- 150.00	100.00
8.752	8.752 (1.102)	120	614555			0.00- 76.46	26.66

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  147 Cumene (continued)
  8.752   8.752 (1.102)    51    233644                     0.00-  60.59    10.14
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.060   9.060 (1.141)    83   1203968 25.0000   25.535  50.00- 150.00   100.00
  9.060   9.060 (1.141)    85    758560                   11.65- 111.65    63.00
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.146)    91   2829352 25.0000   25.950  50.00- 150.00   100.00
  9.102   9.102 (1.146)   120    663316                     0.00-  73.42    23.44
  9.102   9.102 (1.146)   105    149996                     0.00-  54.51     5.30
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.186   9.186 (1.157)   120    712070 25.0000   25.010  50.00- 150.00   100.00
  9.186   9.186 (1.157)   105   2407521                  283.92- 383.92   338.10
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.242   9.242 (1.164)   120   1001359 25.0000   24.855  50.00- 150.00   100.00
  9.242   9.242 (1.164)   105   2074581                  160.96- 260.96   207.18
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.564   9.564 (1.204)   120    918155 25.0000   25.444  50.00- 150.00   100.00
  9.564   9.564 (1.204)   105   1986446                  167.95- 267.95   216.35
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.830   9.830 (1.238)   146   1323422 25.0000   24.330  50.00- 150.00   100.00
  9.830   9.830 (1.238)   148    841629                   14.06- 114.06    63.59
  9.830   9.830 (1.238)   111    555296                     0.00-  92.10    41.96
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.900   9.900 (1.247)   146   1332820 25.0000   23.877  50.00- 150.00   100.00
  9.900   9.900 (1.247)   148    846945                   13.21- 113.21    63.55
  9.900   9.900 (1.247)   111    541721                     0.00-  90.61    40.64
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.026  10.026 (1.263)    91   1739285 25.0000   27.119  50.00- 150.00   100.00
 10.026  10.026 (1.263)   126    365101                     0.00-  70.58    20.99
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.221  10.221 (1.287)   146   1265025 25.0000   24.293  50.00- 150.00   100.00
 10.221  10.221 (1.287)   148    804325                   12.80- 112.80    63.58
 10.221  10.221 (1.287)   111    534342                     0.00-  93.24    42.24
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.537  11.537 (1.453)   180    966044 25.0000   21.011  50.00- 150.00   100.00
 11.537  11.537 (1.453)   182    915387                   45.08- 145.08    94.76
-------------------------------------------------------------------------------
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene						CAS #: 87-68-3		
11.635	11.635	(1.465)	225	772325	25.0000	22.448	50.00- 150.00	100.00
11.635	11.635	(1.465)	223	832636			55.57- 155.57	107.81
176 Naphthalene						CAS #: 91-20-3		
11.761	11.761	(1.481)	128	236281	2.50000	2.166	50.00- 150.00	100.00
11.761	11.761	(1.481)	127	30426			0.00- 63.17	12.88

Report Date: 27-Sep-2010 13:54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092405.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 25ppbv (200ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

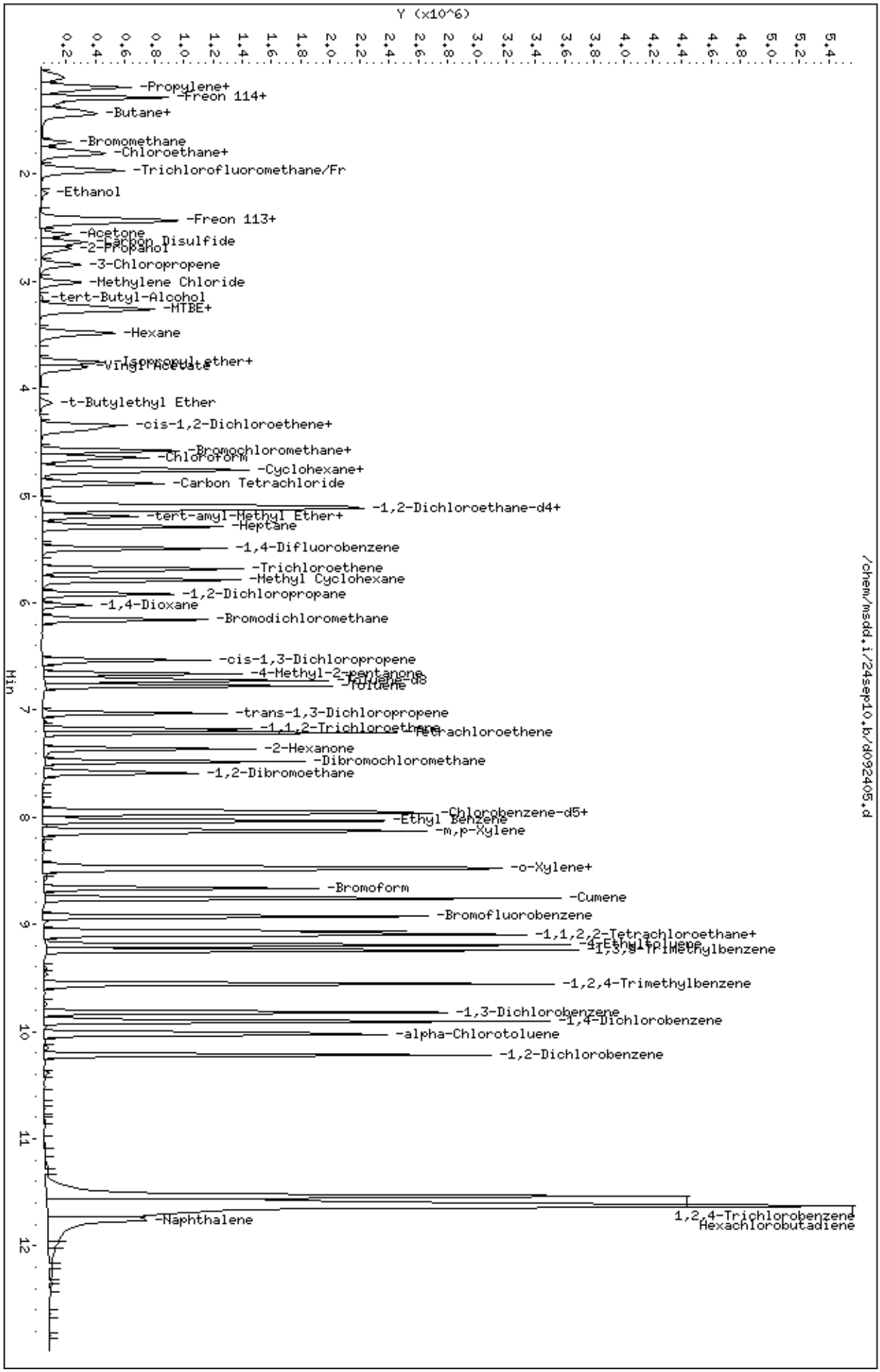
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	241237	9.78
100 1,4-Difluorobenze	915405	549243	1281567	1025981	12.08
134 Chlorobenzene-d5	1036280	621768	1450792	1176487	13.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.49	-0.25
134 Chlorobenzene-d5	7.94	7.61	8.27	7.94	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.

Data File: /chem/msdd.i/24sep10.b/d092405.d
Date : 24-SEP-2010 11:26
Client ID: Level 4
Sample Info: 25mL #1936-309
Column phase: RTx-624

Instrument: msdd.i
Operator: mtw
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092406.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 24-SEP-2010 11:44
Operator : mtw Inst ID: msdd.i
Smp Info : 50mL #1936-309
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 13:54 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 11:44 Cal File: d092406.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	219753	25.0000		80.00- 120.00	100.00
4.583	4.583 (1.000)	128	171234			27.92- 127.92	77.92
4.569	4.569 (1.000)	49	300124			86.57- 186.57	136.57
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	915405	25.0000		80.00- 120.00	100.00
5.492	5.492 (1.000)	88	149625			0.00- 66.35	16.35
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.941	7.941 (1.000)	117	1036280	25.0000		80.00- 120.00	100.00
7.941	7.941 (1.000)	82	614577			9.31- 109.31	59.31
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.128	5.128 (1.119)	65	356491	25.0000	25.000	80.00- 120.00	100.00
5.128	5.128 (1.119)	67	197171			5.31- 105.31	55.31
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.723	6.723 (1.221)	98	1056629	25.0000	25.000	80.00- 120.00	100.00
6.723	6.723 (1.221)	70	116897			0.00- 61.06	11.06

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

$ 114 Toluene-d8 (continued)
  6.723   6.723 (1.221)   100    693686                   15.65- 115.65    65.65
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                                CAS #: 460-00-4
  8.934   8.934 (1.125)   174    676705 25.0000   25.000  80.00- 120.00   100.00
  8.920   8.920 (1.123)    95    928341                   87.19- 187.19   137.19
  8.934   8.934 (1.125)   176    645832                   45.44- 145.44    95.44
-------------------------------------------------------------------------------
    6 Propylene                                         CAS #: 115-07-1
  1.169   1.169 (0.255)    41    273351 50.0000   50.000  80.00- 120.00   100.00
  1.169   1.169 (0.255)    42    181583                   16.43- 116.43    66.43
  1.169   1.169 (0.255)    39    213419                   28.08- 128.08    78.08
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                      CAS #: 75-71-8
  1.196   1.196 (0.261)    85   1181430 50.0000   50.000  80.00- 120.00   100.00
  1.196   1.196 (0.261)    87    379945                    0.00-  82.16    32.16
-------------------------------------------------------------------------------
   10 Freon 114                                         CAS #: 76-14-2
  1.294   1.294 (0.282)   135    818475 50.0000   50.000  80.00- 120.00   100.00
  1.294   1.294 (0.282)   137    259261                    0.00-  81.68    31.68
-------------------------------------------------------------------------------
   13 Chloromethane                                     CAS #: 74-87-3
  1.336   1.336 (0.292)    50    222290 50.0000   50.000  80.00- 120.00   100.00
  1.336   1.336 (0.292)    52     71838                    0.00-  82.32    32.32
-------------------------------------------------------------------------------
   14 Butane                                            CAS #: 106-97-8
  1.406   1.406 (0.307)    58     69876 50.0000   50.000  80.00- 120.00   100.00
  1.406   1.406 (0.307)    43    455643                  602.07- 702.07   652.07
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                    CAS #: 75-01-4
  1.420   1.420 (0.310)    62    379852 50.0000   50.000  80.00- 120.00   100.00
  1.420   1.420 (0.310)    64    116507                    0.00-  80.67    30.67
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                     CAS #: 106-99-0
  1.448   1.448 (0.316)    54    312922 50.0000   50.000  80.00- 120.00   100.00
  1.448   1.448 (0.316)    39    393069                   75.61- 175.61   125.61
-------------------------------------------------------------------------------
   24 Bromomethane                                      CAS #: 74-83-9
  1.700   1.700 (0.371)    94    354367 50.0000   50.000  80.00- 120.00   100.00
  1.700   1.700 (0.371)    96    334248                   44.32- 144.32    94.32
-------------------------------------------------------------------------------
   25 Chloroethane                                      CAS #: 75-00-3
  1.784   1.784 (0.389)    64    227991 50.0000   50.000  80.00- 120.00   100.00
  1.784   1.784 (0.389)    66     71145                    0.00-  81.21    31.21
  1.784   1.784 (0.389)    49     64116                    0.00-  78.12    28.12
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
26 Isopentane					CAS #: 78-78-4		
1.812	1.812 (0.395)	43	481971	50.0000	50.000	80.00- 120.00	100.00
1.812	1.812 (0.395)	57	350411			22.70- 122.70	72.70
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
1.966	1.966 (0.429)	101	1306006	50.0000	50.000	80.00- 120.00	100.00
1.966	1.966 (0.429)	103	846821			14.84- 114.84	64.84
29 Ethanol					CAS #: 64-17-5		
2.176	2.176 (0.475)	45	160931	50.0000	50.000	80.00- 120.00	100.00
2.176	2.176 (0.475)	43	35306			0.00- 71.94	21.94
2.176	2.176 (0.475)	46	62831			0.00- 89.04	39.04
33 Freon 113					CAS #: 76-13-1		
2.428	2.428 (0.530)	151	726403	50.0000	50.000	80.00- 120.00	100.00
2.428	2.428 (0.530)	153	457675			13.01- 113.01	63.01
2.428	2.428 (0.530)	101	907629			74.95- 174.95	124.95
34 1,1-Dichloroethene					CAS #: 75-35-4		
2.442	2.442 (0.533)	98	275865	50.0000	50.000	80.00- 120.00	100.00
2.442	2.442 (0.533)	96	426601			104.64- 204.64	154.64
2.442	2.442 (0.533)	61	792988			237.46- 337.46	287.46
38 Acetone					CAS #: 67-64-1		
2.554	2.554 (0.557)	58	199461	50.0000	50.000	80.00- 120.00	100.00
2.554	2.554 (0.557)	43	666158			283.98- 383.98	333.98
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	1142898	50.0000	50.000	80.00- 120.00	100.00
41 2-Propanol					CAS #: 67-63-0		
2.694	2.694 (0.588)	45	703995	50.0000	50.000	80.00- 120.00	100.00
2.694	2.694 (0.588)	43	174698			0.00- 74.82	24.82
2.694	2.694 (0.588)	59	29823			0.00- 54.24	4.24
44 3-Chloropropene					CAS #: 107-05-1		
2.848	2.848 (0.621)	76	202613	50.0000	50.000	80.00- 120.00	100.00
2.848	2.848 (0.621)	41	525682			209.45- 309.45	259.45
46 Methylene Chloride					CAS #: 75-09-2		
3.015	3.015 (0.658)	49	511929	50.0000	50.000	80.00- 120.00	100.00
3.015	3.015 (0.658)	84	375221			23.30- 123.30	73.30
3.015	3.015 (0.658)	51	156509			0.00- 80.57	30.57
48 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.155	3.155 (0.689)	59	89269	5.00000	5.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
48 tert-Butyl-Alcohol (continued)							
3.155	3.155 (0.689)	41	18703			0.00- 50.00	20.95
3.155	3.155 (0.689)	57	9805			0.00- 50.00	10.98
50 MTBE					CAS #: 1634-04-4		
3.253	3.253 (0.710)	73	1250625	50.0000	50.000	80.00- 120.00	100.00
3.253	3.253 (0.710)	57	277895			0.00- 72.22	22.22
3.253	3.253 (0.710)	41	278466			0.00- 72.27	22.27
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.267	3.267 (0.713)	98	285201	50.0000	50.000	80.00- 120.00	100.00
3.267	3.267 (0.713)	61	711209			199.37- 299.37	249.37
3.267	3.267 (0.713)	96	448733			107.34- 207.34	157.34
58 Hexane					CAS #: 110-54-3		
3.491	3.491 (0.762)	57	752164	50.0000	50.000	80.00- 120.00	100.00
3.491	3.491 (0.762)	43	440025			8.50- 108.50	58.50
3.491	3.491 (0.762)	86	118463			0.00- 65.75	15.75
63 Isopropyl ether					CAS #: 108-20-3		
3.771	3.771 (0.823)	45	182479	5.00000	5.000	80.00- 120.00	100.00
3.771	3.771 (0.823)	87	56557			0.00- 80.99	30.99
3.771	3.771 (0.823)	59	25155			0.00- 63.79	13.79
64 1,1-Dichloroethane					CAS #: 75-34-3		
3.757	3.757 (0.820)	63	929181	50.0000	50.000	80.00- 120.00	100.00
3.757	3.757 (0.820)	65	293221			0.00- 81.56	31.56
65 Vinyl Acetate					CAS #: 108-05-4		
3.813	3.813 (0.832)	86	109171	50.0000	50.000	80.00- 120.00	100.00
3.813	3.813 (0.832)	43	1267804			1111.30-1211.30	1161.30
72 t-Butylethyl Ether					CAS #: 637-92-3		
4.135	4.135 (0.902)	59	172748	5.00000	5.000	80.00- 120.00	100.00
4.135	4.135 (0.902)	87	63997			0.00- 87.05	37.05
4.135	4.135 (0.902)	41	34763			0.00- 70.12	20.12
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.345	4.345 (0.948)	98	328793	50.0000	50.000	80.00- 120.00	100.00
4.345	4.345 (0.948)	96	507248			104.28- 204.28	154.28
4.345	4.345 (0.948)	61	743809			176.22- 276.22	226.22
75 2-Butanone					CAS #: 78-93-3		
4.387	4.387 (0.957)	72	235624	50.0000	50.000	80.00- 120.00	100.00
4.387	4.387 (0.957)	43	1018716			382.35- 482.35	432.35
4.387	4.387 (0.957)	57	84178			0.00- 85.73	35.73

AMOUNTS

RT	EXP RT (REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 Tetrahydrofuran					CAS #: 109-99-9		
4.583	4.583 (1.000)	42	557328	50.0000	50.000	80.00- 120.00	100.00
4.583	4.583 (1.000)	71	205513			0.00- 86.87	36.87
4.583	4.583 (1.000)	72	233687			0.00- 91.93	41.93
80 Chloroform					CAS #: 67-66-3		
4.652	4.652 (1.015)	83	1134713	50.0000	50.000	80.00- 120.00	100.00
4.652	4.652 (1.015)	85	721963			13.63- 113.63	63.63
83 Cyclohexane					CAS #: 110-82-7		
4.750	4.750 (1.037)	84	679058	50.0000	50.000	80.00- 120.00	100.00
4.750	4.750 (1.037)	56	824468			71.41- 171.41	121.41
4.750	4.750 (1.037)	41	441753			15.05- 115.05	65.05
85 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.778	4.778 (1.043)	97	1212034	50.0000	50.000	80.00- 120.00	100.00
4.778	4.778 (1.043)	99	771423			13.65- 113.65	63.65
86 Carbon Tetrachloride					CAS #: 56-23-5		
4.890	4.890 (1.067)	119	1125616	50.0000	50.000	80.00- 120.00	100.00
4.890	4.890 (1.067)	117	1150094			52.17- 152.17	102.17
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.114	5.114 (1.116)	57	2703415	50.0000	50.000	80.00- 120.00	100.00
5.114	5.114 (1.116)	56	866909			0.00- 82.07	32.07
5.114	5.114 (1.116)	41	684259			0.00- 75.31	25.31
90 Benzene					CAS #: 71-43-2		
5.100	5.100 (0.926)	78	1510488	50.0000	50.000	80.00- 120.00	100.00
5.100	5.100 (0.926)	77	355108			0.00- 73.51	23.51
93 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.198	5.198 (1.134)	73	158174	5.00000	5.000	80.00- 120.00	100.00
5.198	5.198 (1.134)	87	38972			0.00- 74.64	24.64
5.198	5.198 (1.134)	55	58728			0.00- 87.13	37.13
94 1,2-Dichloroethane					CAS #: 107-06-2		
5.198	5.198 (0.944)	62	869639	50.0000	50.000	80.00- 120.00	100.00
5.198	5.198 (0.944)	64	278956			0.00- 82.08	32.08
95 Heptane					CAS #: 142-82-5		
5.296	5.296 (0.962)	71	571646	50.0000	50.000	80.00- 120.00	100.00
5.296	5.296 (0.962)	43	1073010			137.71- 237.71	187.71
5.296	5.296 (0.962)	57	614655			57.52- 157.52	107.52
104 Trichloroethene					CAS #: 79-01-6		
5.688	5.688 (1.033)	95	755248	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
104 Trichloroethene (continued)							
5.688	5.688 (1.033)	130	748702			49.13- 149.13	99.13
5.688	5.688 (1.033)	97	491973			15.14- 115.14	65.14
105 Methyl Cyclohexane					CAS #: 108-87-2		
5.800	5.800 (1.266)	83	1025943	50.0000	50.000	80.00- 120.00	100.00
5.800	5.800 (1.266)	98	503967			0.00- 99.12	49.12
5.786	5.786 (1.263)	55	915625			39.25- 139.25	89.25
106 1,2-Dichloropropane					CAS #: 78-87-5		
5.926	5.926 (1.076)	63	652805	50.0000	50.000	80.00- 120.00	100.00
5.926	5.926 (1.076)	62	465195			21.26- 121.26	71.26
5.926	5.926 (1.076)	41	386209			9.16- 109.16	59.16
107 1,4-Dioxane					CAS #: 123-91-1		
6.024	6.024 (1.094)	88	396042	50.0000	50.000	80.00- 120.00	100.00
6.024	6.024 (1.094)	58	306153			27.30- 127.30	77.30
6.024	6.024 (1.094)	57	100713			0.00- 75.43	25.43
108 Bromodichloromethane					CAS #: 75-27-4		
6.164	6.164 (1.119)	83	1348556	50.0000	50.000	80.00- 120.00	100.00
6.164	6.164 (1.119)	85	851020			13.11- 113.11	63.11
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.541	6.541 (1.188)	75	1033406	50.0000	50.000	80.00- 120.00	100.00
6.541	6.541 (1.188)	77	327954			0.00- 81.74	31.74
6.541	6.541 (1.188)	39	529701			1.26- 101.26	51.26
112 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.667	6.667 (1.211)	58	596423	50.0000	50.000	80.00- 120.00	100.00
6.667	6.667 (1.211)	43	1547735			209.50- 309.50	259.50
6.667	6.667 (1.211)	85	253068			0.00- 92.43	42.43
115 Toluene					CAS #: 108-88-3		
6.779	6.779 (1.231)	91	2187539	50.0000	50.000	80.00- 120.00	100.00
6.779	6.779 (1.231)	92	1326021			10.62- 110.62	60.62
118 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.031	7.031 (0.885)	75	1168680	50.0000	50.000	80.00- 120.00	100.00
7.031	7.031 (0.885)	77	376193			0.00- 82.19	32.19
7.031	7.031 (0.885)	39	540234			0.00- 96.23	46.23
120 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.171	7.171 (0.903)	97	816403	50.0000	50.000	80.00- 120.00	100.00
7.171	7.171 (0.903)	99	504338			11.78- 111.78	61.78
7.171	7.171 (0.903)	83	693787			34.98- 134.98	84.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.213	7.213 (0.908)	166	1098966	50.0000	50.000	80.00- 120.00	100.00
7.213	7.213 (0.908)	129	838779			26.32- 126.32	76.32
7.213	7.213 (0.908)	131	809771			23.68- 123.68	73.68
125 2-Hexanone					CAS #: 591-78-6		
7.367	7.367 (0.928)	58	925275	50.0000	50.000	80.00- 120.00	100.00
7.367	7.367 (0.928)	43	1700467			133.78- 233.78	183.78
7.367	7.367 (0.928)	100	182380			0.00- 69.71	19.71
128 Dibromochloromethane					CAS #: 124-48-1		
7.479	7.479 (0.942)	129	1511731	50.0000	50.000	80.00- 120.00	100.00
7.479	7.479 (0.942)	127	1161051			26.80- 126.80	76.80
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.591	7.591 (0.956)	107	1314305	50.0000	50.000	80.00- 120.00	100.00
7.591	7.591 (0.956)	109	1251940			45.25- 145.25	95.25
135 Chlorobenzene					CAS #: 108-90-7		
7.969	7.969 (1.004)	112	2054618	50.0000	50.000	80.00- 120.00	100.00
7.969	7.969 (1.004)	114	659167			0.00- 82.08	32.08
7.969	7.969 (1.004)	77	1209063			8.85- 108.85	58.85
137 Ethyl Benzene					CAS #: 100-41-4		
8.039	8.039 (1.012)	106	1058731	50.0000	50.000	80.00- 120.00	100.00
8.039	8.039 (1.012)	91	3380653			269.31- 369.31	319.31
140 m,p-Xylene					CAS #: 108-38-3		
8.136	8.136 (1.025)	106	1329992	50.0000	50.000	80.00- 120.00	100.00
8.136	8.136 (1.025)	91	2684590			151.85- 251.85	201.85
141 o-Xylene					CAS #: 95-47-6		
8.458	8.458 (1.065)	106	1299575	50.0000	50.000	80.00- 120.00	100.00
8.458	8.458 (1.065)	91	2760030			162.38- 262.38	212.38
142 Styrene					CAS #: 100-42-5		
8.486	8.486 (1.069)	104	2121649	50.0000	50.000	80.00- 120.00	100.00
8.486	8.486 (1.069)	78	1109549			2.30- 102.30	52.30
145 Bromoform					CAS #: 75-25-2		
8.668	8.668 (1.092)	173	1474392	50.0000	50.000	80.00- 120.00	100.00
8.668	8.668 (1.092)	171	758404			1.44- 101.44	51.44
147 Cumene					CAS #: 98-82-8		
8.752	8.752 (1.102)	105	4013804	50.0000	50.000	80.00- 120.00	100.00
8.752	8.752 (1.102)	120	1058794			0.00- 76.38	26.38

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  147 Cumene (continued)
  8.752   8.752 (1.102)    51    400774                     0.00-  59.98     9.98
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.060   9.060 (1.141)    83   2067120 50.0000   50.000  80.00- 120.00   100.00
  9.060   9.060 (1.141)    85   1300091                   12.89- 112.89    62.89
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.146)    91   4896906 50.0000   50.000  80.00- 120.00   100.00
  9.102   9.102 (1.146)   120   1134475                    0.00-  73.17    23.17
  9.102   9.102 (1.146)   105    182440                    0.00-  53.73     3.73
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.186   9.186 (1.157)   120   1241785 50.0000   50.000  80.00- 120.00   100.00
  9.186   9.186 (1.157)   105   4256945                  292.81- 392.81   342.81
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.242   9.242 (1.164)   120   1745181 50.0000   50.000  80.00- 120.00   100.00
  9.242   9.242 (1.164)   105   3645834                  158.91- 258.91   208.91
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.564   9.564 (1.204)   120   1649649 50.0000   50.000  80.00- 120.00   100.00
  9.564   9.564 (1.204)   105   3591834                  167.73- 267.73   217.73
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.829   9.829 (1.238)   146   2437324 50.0000   50.000  80.00- 120.00   100.00
  9.829   9.829 (1.238)   148   1553941                   13.76- 113.76    63.76
  9.815   9.815 (1.236)   111   1027930                    0.00-  92.17    42.17
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.899   9.899 (1.247)   146   2488191 50.0000   50.000  80.00- 120.00   100.00
  9.899   9.899 (1.247)   148   1562919                   12.81- 112.81    62.81
  9.899   9.899 (1.247)   111    984328                    0.00-  89.56    39.56
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.025  10.025 (1.263)    91   3426748 50.0000   50.000  80.00- 120.00   100.00
 10.025  10.025 (1.263)   126    714490                    0.00-  70.85    20.85
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.221  10.221 (1.287)   146   2340056 50.0000   50.000  80.00- 120.00   100.00
 10.221  10.221 (1.287)   148   1484867                   13.45- 113.45    63.45
 10.221  10.221 (1.287)   111   1017012                    0.00-  93.46    43.46
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.536  11.536 (1.453)   180   2078923 50.0000   50.000  80.00- 120.00   100.00
 11.536  11.536 (1.453)   182   1967615                   44.65- 144.65    94.65
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene					CAS #: 87-68-3		
11.634	11.634 (1.465)	225	1538449	50.0000	50.000	80.00- 120.00	100.00
11.634	11.634 (1.465)	223	959850			12.39- 112.39	62.39
176 Naphthalene					CAS #: 91-20-3		
11.760	11.760 (1.481)	128	504569	5.00000	5.000	80.00- 120.00	100.00
11.760	11.760 (1.481)	127	62630			0.00- 62.41	12.41

Report Date: 27-Sep-2010 13:54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092406.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

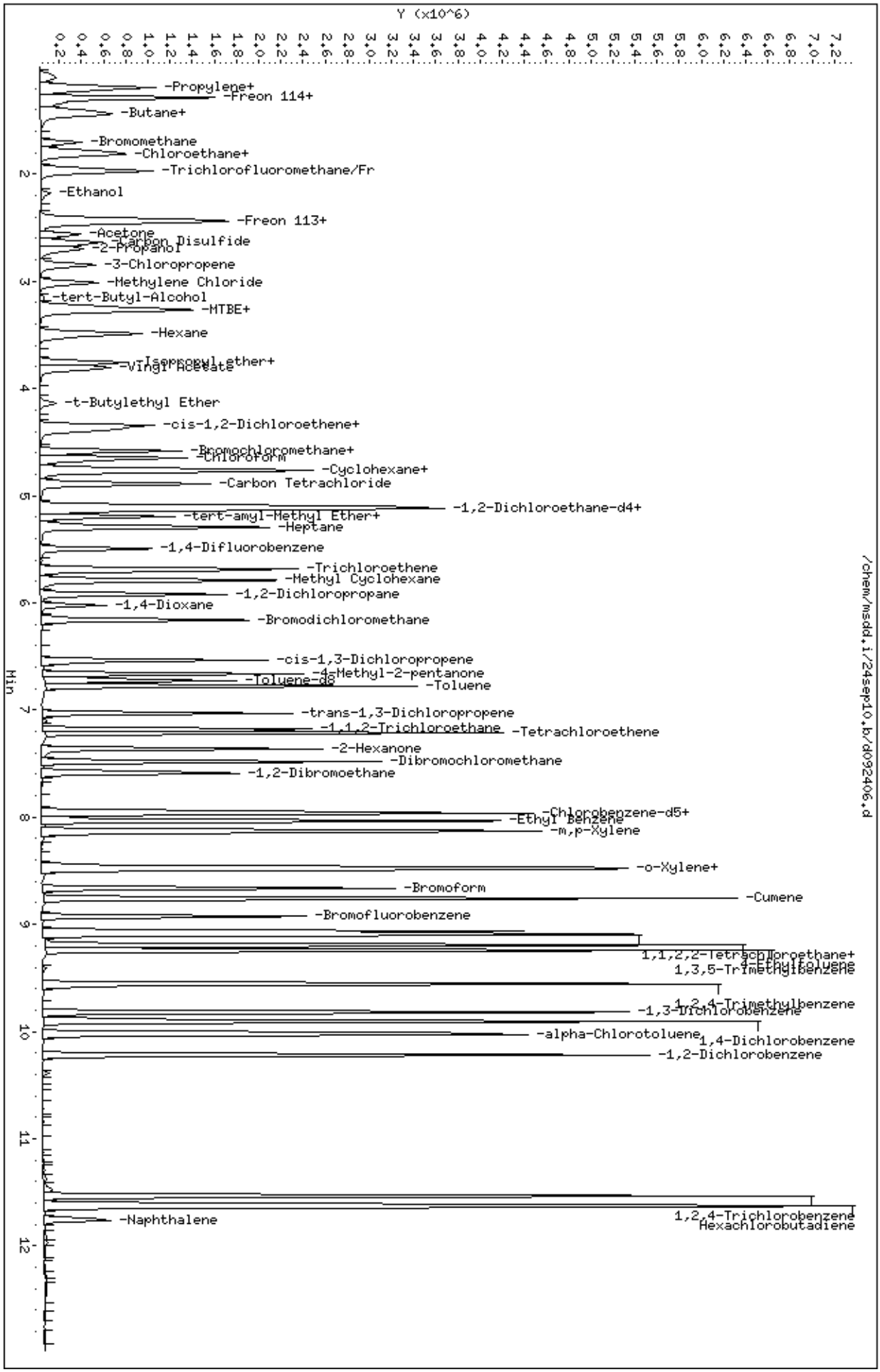
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	219753	0.00
100 1,4-Difluorobenze	915405	549243	1281567	915405	0.00
134 Chlorobenzene-d5	1036280	621768	1450792	1036280	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.94	7.61	8.27	7.94	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.

Data File: /chem/msdd.i/24sep10.b/d092406.d
Date : 24-SEP-2010 11:44
Client ID: Level 5
Sample Info: 50mL #1936-309
Column phase: RTx-624

Instrument: msdd.i
Operator: mtw
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092407.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 24-SEP-2010 12:01
Operator : mtw Inst ID: msdd.i
Smp Info : 100mL #1936-309
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 13:54 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:01 Cal File: d092407.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	206469	25.0000		50.00- 150.00	100.00
4.583	4.583 (1.000)	128	160246			27.74- 127.74	77.61
4.569	4.569 (1.000)	49	276652			89.66- 189.66	133.99
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	867957	25.0000		50.00- 150.00	100.00
5.492	5.492 (1.000)	88	144487			0.00- 66.37	16.65
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	980303	25.0000		50.00- 150.00	100.00
7.941	7.941 (1.000)	82	576089			8.79- 108.79	58.77
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.128	5.128 (1.119)	65	348063	25.0000	25.543	50.00- 150.00	100.00
5.128	5.128 (1.119)	67	208551			2.94- 102.94	59.92
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.723	6.723 (1.221)	98	990665	25.0000	24.621	50.00- 150.00	100.00
6.723	6.723 (1.221)	70	116606			0.00- 61.29	11.77

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

$ 114 Toluene-d8 (continued)
  6.723   6.723 (1.221)   100    687570                   16.69- 116.69    69.40
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                            CAS #: 460-00-4
  8.934   8.934 (1.123)   174    636368 25.0000   25.357  50.00- 150.00   100.00
  8.920   8.920 (1.121)    95    880154                   87.50- 187.50   138.31
  8.934   8.934 (1.123)   176    622569                   46.73- 146.73    97.83
-------------------------------------------------------------------------------
    6 Propylene                                     CAS #: 115-07-1
  1.183   1.183 (0.258)    41    523419 100.000   100.99  50.00- 150.00   100.00
  1.183   1.183 (0.258)    42    349355                   19.00- 119.00    66.74
  1.183   1.183 (0.258)    39    405826                   30.01- 130.01    77.53
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  1.197   1.197 (0.261)    85   2254297 100.000   102.59  50.00- 150.00   100.00
  1.197   1.197 (0.261)    87    741017                    0.00-  82.63    32.87
-------------------------------------------------------------------------------
   10 Freon 114                                     CAS #: 76-14-2
  1.295   1.295 (0.282)   135   1560846 100.000   103.48  50.00- 150.00   100.00
  1.295   1.295 (0.282)   137    492623                    0.00-  81.88    31.56
-------------------------------------------------------------------------------
   13 Chloromethane                                 CAS #: 74-87-3
  1.337   1.337 (0.292)    50    429660 100.000   88.816  50.00- 150.00   100.00
  1.337   1.337 (0.292)    52    129002                    0.00-  81.18    30.02
-------------------------------------------------------------------------------
   14 Butane                                        CAS #: 106-97-8
  1.407   1.407 (0.307)    58     97378 100.000   69.104  50.00- 150.00   100.00
  1.407   1.407 (0.307)    43    616988                  624.15- 724.15   633.60
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                CAS #: 75-01-4
  1.421   1.421 (0.310)    62    477855 100.000   68.873  50.00- 150.00   100.00
  1.421   1.421 (0.310)    64    155814                    0.00-  85.43    32.61
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                 CAS #: 106-99-0
  1.449   1.449 (0.316)    54    361284 100.000   58.650  50.00- 150.00   100.00
  1.449   1.449 (0.316)    39    375168                   71.50- 171.50   103.84
-------------------------------------------------------------------------------
   24 Bromomethane                                  CAS #: 74-83-9
  1.700   1.700 (0.371)    94    686987 100.000   90.618  50.00- 150.00   100.00
  1.700   1.700 (0.371)    96    647470                   43.18- 143.18    94.25
-------------------------------------------------------------------------------
   25 Chloroethane                                  CAS #: 75-00-3
  1.784   1.784 (0.389)    64    430678 100.000   94.060  50.00- 150.00   100.00
  1.784   1.784 (0.389)    66    134535                    0.00-  83.84    31.24
  1.784   1.784 (0.389)    49    121789                    0.00-  75.95    28.28
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
26 Isopentane					CAS #: 78-78-4		
1.798	1.798 (0.392)	43	920478	100.000	101.54	50.00- 150.00	100.00
1.798	1.798 (0.392)	57	671642			23.31- 123.31	72.97
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
1.966	1.966 (0.429)	101	2560983	100.000	104.05	50.00- 150.00	100.00
1.966	1.966 (0.429)	103	1660776			16.00- 116.00	64.85
29 Ethanol					CAS #: 64-17-5		
2.190	2.190 (0.478)	45	304134	100.000	103.01	50.00- 150.00	100.00
2.190	2.190 (0.478)	43	68667			0.00- 73.09	22.58
2.190	2.190 (0.478)	46	121711			0.00- 90.22	40.02
33 Freon 113					CAS #: 76-13-1		
2.428	2.428 (0.530)	151	1395991	100.000	102.84	50.00- 150.00	100.00
2.428	2.428 (0.530)	153	902844			14.08- 114.08	64.67
2.428	2.428 (0.530)	101	1773439			76.51- 176.51	127.04
34 1,1-Dichloroethene					CAS #: 75-35-4		
2.442	2.442 (0.533)	98	519880	100.000	102.65	50.00- 150.00	100.00
2.442	2.442 (0.533)	96	813613			112.09- 212.09	156.50
2.442	2.442 (0.533)	61	1513014			244.07- 344.07	291.03
38 Acetone					CAS #: 67-64-1		
2.554	2.554 (0.557)	58	382129	100.000	97.141	50.00- 150.00	100.00
2.554	2.554 (0.557)	43	1304413			289.34- 389.34	341.35
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	2227646	100.000	103.53	50.00- 150.00	100.00
41 2-Propanol					CAS #: 67-63-0		
2.708	2.708 (0.591)	45	1430427	100.000	105.26	50.00- 150.00	100.00
2.708	2.708 (0.591)	43	331014			0.00- 73.36	23.14
2.708	2.708 (0.591)	59	54385			0.00- 53.87	3.80
44 3-Chloropropene					CAS #: 107-05-1		
2.848	2.848 (0.621)	76	380280	100.000	104.43	50.00- 150.00	100.00
2.848	2.848 (0.621)	41	1021963			230.86- 330.86	268.74
46 Methylene Chloride					CAS #: 75-09-2		
3.016	3.016 (0.658)	49	981300	100.000	98.247	50.00- 150.00	100.00
3.016	3.016 (0.658)	84	721239			23.22- 123.22	73.50
3.016	3.016 (0.658)	51	297564			0.00- 83.45	30.32
48 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.156	3.156 (0.689)	59	181977	10.0000	10.670	50.00- 150.00	100.00

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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   48 tert-Butyl-Alcohol (continued)
  3.156   3.156 (0.689)    41     39459                     0.00-  87.45    21.68
  3.156   3.156 (0.689)    57     18389                     0.00-  77.87    10.11
-------------------------------------------------------------------------------
   50 MTBE                                          CAS #: 1634-04-4
  3.253   3.253 (0.710)    73   2461725 100.000   104.65  50.00- 150.00   100.00
  3.253   3.253 (0.710)    57    542039                     0.00-  74.20    22.02
  3.253   3.253 (0.710)    41    547187                     0.00-  73.88    22.23
-------------------------------------------------------------------------------
   52 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.267   3.267 (0.713)    98    555322 100.000   104.53  50.00- 150.00   100.00
  3.267   3.267 (0.713)    61   1375134                   199.14- 299.14   247.63
  3.267   3.267 (0.713)    96    868805                   115.75- 215.75   156.45
-------------------------------------------------------------------------------
   58 Hexane                                        CAS #: 110-54-3
  3.491   3.491 (0.762)    57   1435103 100.000   96.969  50.00- 150.00   100.00
  3.491   3.491 (0.762)    43    867332                     8.36- 108.36    60.44
  3.491   3.491 (0.762)    86    231144                     0.00-  64.99    16.11
-------------------------------------------------------------------------------
   63 Isopropyl ether                               CAS #: 108-20-3
  3.771   3.771 (0.823)    45    350704 10.0000    9.479  50.00- 150.00   100.00
  3.771   3.771 (0.823)    87    114392                     0.00-  80.45    32.62
  3.771   3.771 (0.823)    59     43999                     0.00-  62.10    12.55
-------------------------------------------------------------------------------
   64 1,1-Dichloroethane                            CAS #: 75-34-3
  3.757   3.757 (0.820)    63   1818660 100.000   103.02  50.00- 150.00   100.00
  3.757   3.757 (0.820)    65    564103                     0.00-  81.76    31.02
-------------------------------------------------------------------------------
   65 Vinyl Acetate                                 CAS #: 108-05-4
  3.813   3.813 (0.832)    86    220679 100.000   110.62  50.00- 150.00   100.00
  3.813   3.813 (0.832)    43   2512430                  1105.35-1205.35  1138.50
-------------------------------------------------------------------------------
   72 t-Butylethyl Ether                            CAS #: 637-92-3
  4.135   4.135 (0.902)    59    337494 10.0000   10.523  50.00- 150.00   100.00
  4.135   4.135 (0.902)    87    130330                     0.00-  88.67    38.62
  4.135   4.135 (0.902)    41     66999                     0.00-  69.90    19.85
-------------------------------------------------------------------------------
   74 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.345   4.345 (0.948)    98    613050 100.000   99.947  50.00- 150.00   100.00
  4.345   4.345 (0.948)    96    953047                   105.73- 205.73   155.46
  4.345   4.345 (0.948)    61   1401968                   177.29- 277.29   228.69
-------------------------------------------------------------------------------
   75 2-Butanone                                    CAS #: 78-93-3
  4.387   4.387 (0.957)    72    445539 100.000   107.06  50.00- 150.00   100.00
  4.387   4.387 (0.957)    43   1912298                   398.18- 498.18   429.21
  4.387   4.387 (0.957)    57    161855                     0.00-  94.52    36.33
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
78 Tetrahydrofuran					CAS #: 109-99-9		
4.583	4.583 (1.000)	42	1047654	100.000	96.106	50.00- 150.00	100.00
4.583	4.583 (1.000)	71	397544			0.00- 86.23	37.95
4.583	4.583 (1.000)	72	432167			0.00- 90.19	41.25
80 Chloroform					CAS #: 67-66-3		
4.653	4.653 (1.015)	83	2145144	100.000	98.932	50.00- 150.00	100.00
4.653	4.653 (1.015)	85	1365450			11.87- 111.87	63.65
83 Cyclohexane					CAS #: 110-82-7		
4.751	4.751 (1.037)	84	1274141	100.000	96.090	50.00- 150.00	100.00
4.751	4.751 (1.037)	56	1541278			73.57- 173.57	120.97
4.751	4.751 (1.037)	41	821981			18.19- 118.19	64.51
85 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.779	4.779 (1.043)	97	2317946	100.000	102.37	50.00- 150.00	100.00
4.779	4.779 (1.043)	99	1485007			14.20- 114.20	64.07
86 Carbon Tetrachloride					CAS #: 56-23-5		
4.891	4.891 (1.067)	119	2190953	100.000	114.24	50.00- 150.00	100.00
4.891	4.891 (1.067)	117	2252309			52.41- 152.41	102.80
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.114	5.114 (1.116)	57	4918387	100.000	93.337	50.00- 150.00	100.00
5.114	5.114 (1.116)	56	1558796			0.00- 82.22	31.69
5.114	5.114 (1.116)	41	1228740			0.00- 75.30	24.98
90 Benzene					CAS #: 71-43-2		
5.100	5.100 (0.926)	78	2814527	100.000	93.219	50.00- 150.00	100.00
5.100	5.100 (0.926)	77	642360			0.00- 73.42	22.82
93 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.198	5.198 (1.134)	73	302948	10.0000	10.121	50.00- 150.00	100.00
5.198	5.198 (1.134)	87	74263			0.00- 75.15	24.51
5.198	5.198 (1.134)	55	97338			0.00- 87.94	32.13
94 1,2-Dichloroethane					CAS #: 107-06-2		
5.198	5.198 (0.944)	62	1640374	100.000	99.238	50.00- 150.00	100.00
5.198	5.198 (0.944)	64	527912			0.00- 83.91	32.18
95 Heptane					CAS #: 142-82-5		
5.296	5.296 (0.962)	71	1060322	100.000	98.535	50.00- 150.00	100.00
5.296	5.296 (0.962)	43	1972968			140.26- 240.26	186.07
5.296	5.296 (0.962)	57	1120714			59.88- 159.88	105.70
104 Trichloroethene					CAS #: 79-01-6		
5.688	5.688 (1.033)	95	1426472	100.000	97.138	50.00- 150.00	100.00

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  104 Trichloroethene (continued)
  5.688   5.688 (1.033)   130   1414415                    49.11- 149.11    99.15
  5.688   5.688 (1.033)    97    923645                    15.29- 115.29    64.75
-------------------------------------------------------------------------------
  105 Methyl Cyclohexane                           CAS #: 108-87-2
  5.800   5.800 (1.266)    83   1900631 100.000   95.732  50.00- 150.00   100.00
  5.800   5.800 (1.266)    98    934032                     0.00-  98.14    49.14
  5.786   5.786 (1.263)    55   1675332                    38.79- 138.79    88.15
-------------------------------------------------------------------------------
  106 1,2-Dichloropropane                          CAS #: 78-87-5
  5.926   5.926 (1.076)    63   1208945 100.000   95.258  50.00- 150.00   100.00
  5.926   5.926 (1.076)    62    844798                    20.55- 120.55    69.88
  5.926   5.926 (1.076)    41    713812                    11.27- 111.27    59.04
-------------------------------------------------------------------------------
  107 1,4-Dioxane                                  CAS #: 123-91-1
  6.024   6.024 (1.094)    88    738753 100.000   98.650  50.00- 150.00   100.00
  6.024   6.024 (1.094)    58    573408                    26.67- 126.67    77.62
  6.024   6.024 (1.094)    57    189099                     0.00-  76.79    25.60
-------------------------------------------------------------------------------
  108 Bromodichloromethane                         CAS #: 75-27-4
  6.164   6.164 (1.119)    83   2622278 100.000   103.87  50.00- 150.00   100.00
  6.164   6.164 (1.119)    85   1632662                    12.41- 112.41    62.26
-------------------------------------------------------------------------------
  110 cis-1,3-Dichloropropene                      CAS #: 10061-01-5
  6.542   6.542 (1.188)    75   1970911 100.000   103.95  50.00- 150.00   100.00
  6.542   6.542 (1.188)    77    627312                     0.00-  82.98    31.83
  6.542   6.542 (1.188)    39   1001479                     1.60- 101.60    50.81
-------------------------------------------------------------------------------
  112 4-Methyl-2-pentanone                         CAS #: 108-10-1
  6.667   6.667 (1.211)    58   1142208 100.000   103.22  50.00- 150.00   100.00
  6.667   6.667 (1.211)    43   2933216                   205.82- 305.82   256.80
  6.667   6.667 (1.211)    85    478891                     0.00-  91.74    41.93
-------------------------------------------------------------------------------
  115 Toluene                                      CAS #: 108-88-3
  6.779   6.779 (1.231)    91   4114950 100.000   95.762  50.00- 150.00   100.00
  6.779   6.779 (1.231)    92   2484137                    10.33- 110.33    60.37
-------------------------------------------------------------------------------
  118 trans-1,3-Dichloropropene                    CAS #: 10061-02-6
  7.031   7.031 (0.884)    75   2269884 100.000   109.36  50.00- 150.00   100.00
  7.031   7.031 (0.884)    77    723004                     0.00-  84.69    31.85
  7.031   7.031 (0.884)    39   1033504                     0.00-  96.57    45.53
-------------------------------------------------------------------------------
  120 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.185   7.185 (0.903)    97   1510105 100.000   99.104  50.00- 150.00   100.00
  7.185   7.185 (0.903)    99    926587                    11.31- 111.31    61.36
  7.171   7.171 (0.901)    83   1284206                    37.82- 137.82    85.04
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.213	7.213 (0.907)	166	2017211	100.000	97.177	50.00- 150.00	100.00
7.213	7.213 (0.907)	129	1540553			24.82- 124.82	76.37
7.213	7.213 (0.907)	131	1487745			24.46- 124.46	73.75
125 2-Hexanone					CAS #: 591-78-6		
7.367	7.367 (0.926)	58	1701475	100.000	102.02	50.00- 150.00	100.00
7.367	7.367 (0.926)	43	3125572			131.13- 231.13	183.70
7.367	7.367 (0.926)	100	349105			0.00- 69.98	20.52
128 Dibromochloromethane					CAS #: 124-48-1		
7.479	7.479 (0.940)	129	2846784	100.000	106.77	50.00- 150.00	100.00
7.479	7.479 (0.940)	127	2214878			26.70- 126.70	77.80
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.591	7.591 (0.954)	107	2452389	100.000	99.989	50.00- 150.00	100.00
7.591	7.591 (0.954)	109	2333237			45.76- 145.76	95.14
135 Chlorobenzene					CAS #: 108-90-7		
7.969	7.969 (1.002)	112	3800773	100.000	87.583	50.00- 150.00	100.00
7.969	7.969 (1.002)	114	1218451			0.00- 82.34	32.06
7.969	7.969 (1.002)	77	2261278			17.83- 117.83	59.50
137 Ethyl Benzene					CAS #: 100-41-4		
8.039	8.039 (1.011)	106	1950398	100.000	99.718	50.00- 150.00	100.00
8.039	8.039 (1.011)	91	6285336			271.23- 371.23	322.26
140 m,p-Xylene					CAS #: 108-38-3		
8.137	8.137 (1.023)	106	2513894	100.000	98.587	50.00- 150.00	100.00
8.137	8.137 (1.023)	91	5061664			145.19- 245.19	201.35
141 o-Xylene					CAS #: 95-47-6		
8.472	8.472 (1.065)	106	2394337	100.000	98.038	50.00- 150.00	100.00
8.458	8.458 (1.063)	91	5151485			163.74- 263.74	215.15
142 Styrene					CAS #: 100-42-5		
8.486	8.486 (1.067)	104	3907877	100.000	100.22	50.00- 150.00	100.00
8.486	8.486 (1.067)	78	2086340			3.22- 103.22	53.39
145 Bromoform					CAS #: 75-25-2		
8.668	8.668 (1.090)	173	2856462	100.000	110.81	50.00- 150.00	100.00
8.668	8.668 (1.090)	171	1469720			1.08- 101.08	51.45
147 Cumene					CAS #: 98-82-8		
8.752	8.752 (1.100)	105	7458468	100.000	99.987	50.00- 150.00	100.00
8.752	8.752 (1.100)	120	1931769			0.00- 76.35	25.90

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  147 Cumene (continued)
  8.752   8.752 (1.100)    51    749473                     0.00-  60.48    10.05
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.060   9.060 (1.139)    83   3790302 100.000   97.161  50.00- 150.00   100.00
  9.060   9.060 (1.139)    85   2375109                   11.85- 111.85    62.66
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.144)    91   9095193 100.000   100.09  50.00- 150.00   100.00(A)
  9.102   9.102 (1.144)   120   2086597                    0.00-  73.32    22.94
  9.102   9.102 (1.144)   105    361106                    0.00-  54.41     3.97
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.200   9.200 (1.157)   120   2320139 100.000   98.233  50.00- 150.00   100.00
  9.186   9.186 (1.155)   105   7949977                  285.66- 385.66   342.65
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.242   9.242 (1.162)   120   3278838 100.000   98.052  50.00- 150.00   100.00
  9.242   9.242 (1.162)   105   6957007                  161.17- 261.17   212.18
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.564   9.564 (1.202)   120   2987443 100.000   99.463  50.00- 150.00   100.00
  9.564   9.564 (1.202)   105   6632858                  168.63- 268.63   222.02
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.830   9.830 (1.236)   146   4431841 100.000   98.216  50.00- 150.00   100.00
  9.830   9.830 (1.236)   148   2830016                   14.02- 114.02    63.86
  9.830   9.830 (1.236)   111   1859156                    0.00-  92.07    41.95
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.900   9.900 (1.244)   146   4476809 100.000   96.979  50.00- 150.00   100.00
  9.900   9.900 (1.244)   148   2820527                   13.17- 113.17    63.00
  9.900   9.900 (1.244)   111   1780421                    0.00-  90.44    39.77
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.025  10.025 (1.260)    91   6523239 100.000   116.91  50.00- 150.00   100.00
 10.025  10.025 (1.260)   126   1349337                    0.00-  70.60    20.69
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.221  10.221 (1.285)   146   4186068 100.000   97.160  50.00- 150.00   100.00
 10.221  10.221 (1.285)   148   2650317                   12.90- 112.90    63.31
 10.221  10.221 (1.285)   111   1848163                    0.00-  93.42    44.15
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.537  11.537 (1.450)   180   4012480 100.000   103.51  50.00- 150.00   100.00
 11.537  11.537 (1.450)   182   3811992                   45.06- 145.06    95.00
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene					CAS #: 87-68-3		
11.635	11.635 (1.463)	225	2930848	100.000	101.67	50.00- 150.00	100.00
11.635	11.635 (1.463)	223	1835743			44.84- 144.84	62.64
176 Naphthalene					CAS #: 91-20-3		
11.761	11.761 (1.478)	128	1035231	10.0000	11.005	50.00- 150.00	100.00
11.761	11.761 (1.478)	127	125717			0.00- 62.92	12.14

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: msdd.i
Lab File ID: d092407.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

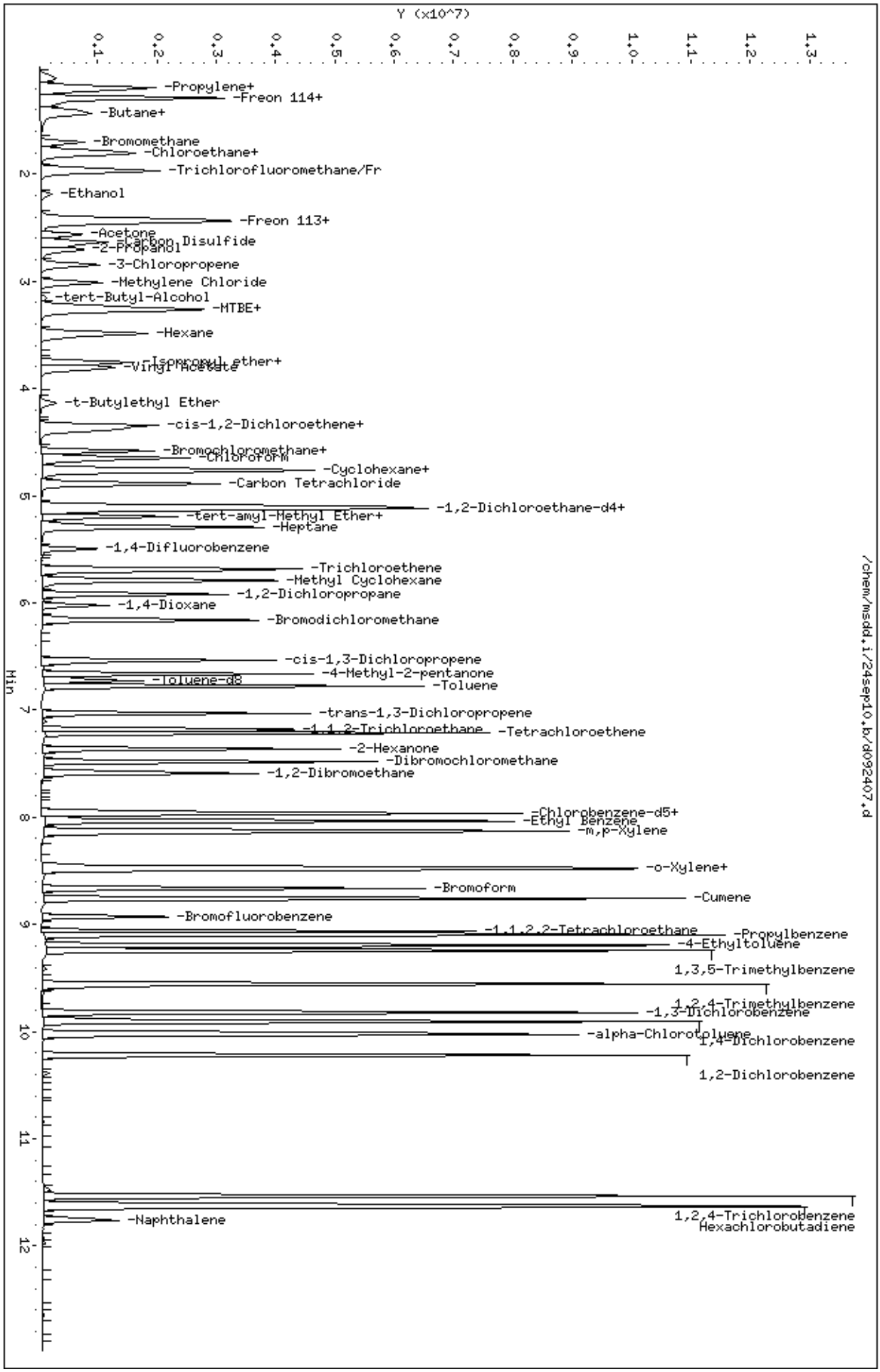
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	206469	-6.04
100 1,4-Difluorobenze	915405	549243	1281567	867957	-5.18
134 Chlorobenzene-d5	1036280	621768	1450792	980303	-5.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.94	7.61	8.27	7.95	0.18

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.

Data File: /chem/msdd.i/24sep10.b/d092407.d
Date : 24-SEP-2010 12:01
Client ID: Level 6
Sample Info: 100mL #1936-309
Column phase: RTx-624

Instrument: msdd.i
Operator: mtw
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/24sep10.b/d092408.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 24-SEP-2010 12:20
Operator : mtw Inst ID: msdd.i
Smp Info : 200mL #1936-309
Misc Info : 00ppbv (200ppbv)
Comment :
Method : /chem/msdd.i/24sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 13:55 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:20 Cal File: d092408.d
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	232470	25.0000		50.00- 150.00	100.00
4.583	4.583 (1.000)	128	177242			27.74- 127.74	76.24
4.583	4.583 (1.000)	49	334072			89.66- 189.66	143.71
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	976670	25.0000		50.00- 150.00	100.00
5.506	5.506 (1.000)	88	161505			0.00- 66.37	16.54
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	1131175	25.0000		50.00- 150.00	100.00
7.955	7.955 (1.000)	82	663206			8.79- 108.79	58.63
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.142	5.142 (1.122)	65	407092	25.0000	26.303	50.00- 150.00	100.00
5.128	5.128 (1.119)	67	268650			2.94- 102.94	65.99
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.737	6.737 (1.224)	98	1163588	25.0000	25.598	50.00- 150.00	100.00
6.737	6.737 (1.224)	70	133101			0.00- 61.29	11.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 114 Toluene-d8 (continued)							
6.737	6.737 (1.224)	100	806041			16.69- 116.69	69.27
$ 149 Bromofluorobenzene					CAS #: 460-00-4		
8.934	8.934 (1.123)	174	752350	25.0000	25.836	50.00- 150.00	100.00
8.934	8.934 (1.123)	95	1031491			87.50- 187.50	137.10
8.934	8.934 (1.123)	176	724553			46.73- 146.73	96.31
6 Propylene					CAS #: 115-07-1		
1.183	1.183 (0.258)	41	1129925	200.000	194.87	50.00- 150.00	100.00
1.183	1.183 (0.258)	42	738017			19.00- 119.00	65.32
1.183	1.183 (0.258)	39	861185			30.01- 130.01	76.22
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.210	1.210 (0.264)	85	4757965	200.000	193.56	50.00- 150.00	100.00
1.210	1.210 (0.264)	87	1534556			0.00- 82.63	32.25
10 Freon 114					CAS #: 76-14-2		
1.294	1.294 (0.282)	135	3316033	200.000	196.02	50.00- 150.00	100.00
1.294	1.294 (0.282)	137	1047357			0.00- 81.88	31.58
13 Chloromethane					CAS #: 74-87-3		
1.350	1.350 (0.295)	50	781525	200.000	152.08	50.00- 150.00	100.00
1.350	1.350 (0.295)	52	250995			0.00- 81.18	32.12
14 Butane					CAS #: 106-97-8		
1.406	1.406 (0.307)	58	206752	200.000	140.07	50.00- 150.00	100.00
1.406	1.406 (0.307)	43	1300450			624.15- 724.15	628.99
15 Vinyl Chloride					CAS #: 75-01-4		
1.420	1.420 (0.310)	62	1005088	200.000	136.79	50.00- 150.00	100.00
1.420	1.420 (0.310)	64	321500			0.00- 85.43	31.99
18 1,3-Butadiene					CAS #: 106-99-0		
1.448	1.448 (0.316)	54	751689	200.000	117.34	50.00- 150.00	100.00
1.448	1.448 (0.316)	39	739700			71.50- 171.50	98.41
24 Bromomethane					CAS #: 74-83-9		
1.700	1.700 (0.371)	94	909277	200.000	115.52	50.00- 150.00	100.00
1.700	1.700 (0.371)	96	866454			43.18- 143.18	95.29
25 Chloroethane					CAS #: 75-00-3		
1.784	1.784 (0.389)	64	593754	200.000	123.93	50.00- 150.00	100.00
1.784	1.784 (0.389)	66	188492			0.00- 83.84	31.75
1.784	1.784 (0.389)	49	154820			0.00- 75.97	26.07

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   26 Isopentane                                      CAS #: 78-78-4
  1.798   1.798 (0.392)    43   1314889 200.000   138.70  50.00- 150.00   100.00
  1.798   1.798 (0.392)    57   1035823                   23.31- 123.31    78.78
-------------------------------------------------------------------------------
   28 Trichlorofluoromethane/Fr11                     CAS #: 75-69-4
  1.966   1.966 (0.429)   101   4807511 200.000   177.40  50.00- 150.00   100.00
  1.966   1.966 (0.429)   103   3137802                   16.00- 116.00    65.27
-------------------------------------------------------------------------------
   29 Ethanol                                         CAS #: 64-17-5
  2.204   2.204 (0.481)    45    656350 200.000   197.95  50.00- 150.00   100.00
  2.204   2.204 (0.481)    43    142130                    0.00-  73.09    21.65
  2.204   2.204 (0.481)    46    254635                    0.00-  90.22    38.80
-------------------------------------------------------------------------------
   33 Freon 113                                       CAS #: 76-13-1
  2.428   2.428 (0.530)   151   2934003 200.000   193.26  50.00- 150.00   100.00
  2.428   2.428 (0.530)   153   1882253                   14.08- 114.08    64.15
  2.414   2.414 (0.527)   101   3733921                   76.51- 176.51   127.26
-------------------------------------------------------------------------------
   34 1,1-Dichloroethene                              CAS #: 75-35-4
  2.442   2.442 (0.533)    98   1111938 200.000   195.81  50.00- 150.00   100.00
  2.442   2.442 (0.533)    96   1735862                  112.09- 212.09   156.11
  2.442   2.442 (0.533)    61   3264536                  244.07- 344.07   293.59
-------------------------------------------------------------------------------
   38 Acetone                                         CAS #: 67-64-1
  2.568   2.568 (0.560)    58    834984 200.000   190.71  50.00- 150.00   100.00
  2.568   2.568 (0.560)    43   2874637                  289.34- 389.34   344.27
-------------------------------------------------------------------------------
   40 Carbon Disulfide                                CAS #: 75-15-0
  2.638   2.638 (0.576)    76   4829653 200.000   199.46  50.00- 150.00   100.00
-------------------------------------------------------------------------------
   41 2-Propanol                                      CAS #: 67-63-0
  2.722   2.722 (0.594)    45   3193191 200.000   206.90  50.00- 150.00   100.00(A)
  2.722   2.722 (0.594)    43    704752                    0.00-  73.36    22.07
  2.722   2.722 (0.594)    59    125209                    0.00-  53.87     3.92
-------------------------------------------------------------------------------
   44 3-Chloropropene                                 CAS #: 107-05-1
  2.848   2.848 (0.621)    76    856904 200.000   207.14  50.00- 150.00   100.00(A)
  2.848   2.848 (0.621)    41   2278474                  230.86- 330.86   265.90
-------------------------------------------------------------------------------
   46 Methylene Chloride                              CAS #: 75-09-2
  3.015   3.015 (0.658)    49   2117881 200.000   190.18  50.00- 150.00   100.00
  3.015   3.015 (0.658)    84   1536688                   23.22- 123.22    72.56
  3.015   3.015 (0.658)    51    639021                    0.00-  83.45    30.17
-------------------------------------------------------------------------------
   48 tert-Butyl-Alcohol                              CAS #: 75-65-0
  3.169   3.169 (0.692)    59    417804 20.0000   21.381  50.00- 150.00   100.00
```

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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   48 tert-Butyl-Alcohol (continued)
  3.169   3.169 (0.692)    41     91812                     0.00-  87.45    21.97
  3.169   3.169 (0.692)    57     44760                     0.00-  77.87    10.71
-------------------------------------------------------------------------------
   50 MTBE                                          CAS #: 1634-04-4
  3.253   3.253 (0.710)    73   5367964 200.000   202.22  50.00- 150.00   100.00(A)
  3.253   3.253 (0.710)    57   1168022                     0.00-  74.20    21.76
  3.253   3.253 (0.710)    41   1175526                     0.00-  73.88    21.90
-------------------------------------------------------------------------------
   52 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.267   3.267 (0.713)    98   1202746 200.000   200.89  50.00- 150.00   100.00(A)
  3.267   3.267 (0.713)    61   2987116                   199.14- 299.14   248.36
  3.267   3.267 (0.713)    96   1873996                   115.75- 215.75   155.81
-------------------------------------------------------------------------------
   58 Hexane                                        CAS #: 110-54-3
  3.491   3.491 (0.762)    57   3037569 200.000   185.02  50.00- 150.00   100.00
  3.491   3.491 (0.762)    43   1838592                     8.36- 108.36    60.53
  3.491   3.491 (0.762)    86    478713                     0.00-  64.99    15.76
-------------------------------------------------------------------------------
   63 Isopropyl ether                               CAS #: 108-20-3
  3.771   3.771 (0.823)    45    754328 20.0000   18.457  50.00- 150.00   100.00
  3.771   3.771 (0.823)    87    238192                     0.00-  80.45    31.58
  3.771   3.771 (0.823)    59     98411                     0.00-  62.10    13.05
-------------------------------------------------------------------------------
   64 1,1-Dichloroethane                            CAS #: 75-34-3
  3.757   3.757 (0.820)    63   3952141 200.000   199.03  50.00- 150.00   100.00
  3.757   3.757 (0.820)    65   1232944                     0.00-  81.76    31.20
-------------------------------------------------------------------------------
   65 Vinyl Acetate                                 CAS #: 108-05-4
  3.813   3.813 (0.832)    86    482674 200.000   211.74  50.00- 150.00   100.00(A)
  3.813   3.813 (0.832)    43   5608468                  1105.35-1205.35  1161.96
-------------------------------------------------------------------------------
   72 t-Butylethyl Ether                            CAS #: 637-92-3
  4.149   4.149 (0.905)    59    725952 20.0000   20.082  50.00- 150.00   100.00
  4.149   4.149 (0.905)    87    279895                     0.00-  88.67    38.56
  4.135   4.135 (0.902)    41    146555                     0.00-  69.90    20.19
-------------------------------------------------------------------------------
   74 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.359   4.359 (0.951)    98   1374323 200.000   199.16  50.00- 150.00   100.00
  4.359   4.359 (0.951)    96   2156354                   105.73- 205.73   156.90
  4.359   4.359 (0.951)    61   3177073                   177.29- 277.29   231.17
-------------------------------------------------------------------------------
   75 2-Butanone                                    CAS #: 78-93-3
  4.387   4.387 (0.957)    72    999904 200.000   211.05  50.00- 150.00   100.00(A)
  4.387   4.387 (0.957)    43   4501583                   398.18- 498.18   450.20
  4.387   4.387 (0.957)    57    367773                     0.00-  94.52    36.78
-------------------------------------------------------------------------------
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   78 Tetrahydrofuran                                CAS #: 109-99-9
  4.583   4.583 (1.000)    42   2504623 200.000   203.37  50.00- 150.00   100.00(A)
  4.597   4.597 (1.003)    71    919685                    0.00-  86.23    36.72
  4.597   4.597 (1.003)    72    965969                    0.00-  90.19    38.57
-------------------------------------------------------------------------------
   80 Chloroform                                     CAS #: 67-66-3
  4.666   4.666 (1.018)    83   4808306 200.000   197.45  50.00- 150.00   100.00
  4.666   4.666 (1.018)    85   3051434                  11.87- 111.87    63.46
-------------------------------------------------------------------------------
   83 Cyclohexane                                    CAS #: 110-82-7
  4.764   4.764 (1.040)    84   2802248 200.000   189.64  50.00- 150.00   100.00
  4.764   4.764 (1.040)    56   3494197                  73.57- 173.57   124.69
  4.764   4.764 (1.040)    41   1851963                  18.19- 118.19    66.09
-------------------------------------------------------------------------------
   85 1,1,1-Trichloroethane                          CAS #: 71-55-6
  4.778   4.778 (1.043)    97   5138663 200.000   201.30  50.00- 150.00   100.00(A)
  4.778   4.778 (1.043)    99   3277711                  14.20- 114.20    63.79
-------------------------------------------------------------------------------
   86 Carbon Tetrachloride                           CAS #: 56-23-5
  4.890   4.890 (1.067)   119   4976871 200.000   224.76  50.00- 150.00   100.00(A)
  4.890   4.890 (1.067)   117   5118141                  52.41- 152.41   102.84
-------------------------------------------------------------------------------
   89 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.114   5.114 (1.116)    57  10371370 200.000   178.55  50.00- 150.00   100.00
  5.114   5.114 (1.116)    56   3299485                    0.00-  82.22    31.81
  5.114   5.114 (1.116)    41   2592967                    0.00-  75.30    25.00
-------------------------------------------------------------------------------
   90 Benzene                                        CAS #: 71-43-2
  5.114   5.114 (0.929)    78   6286234 200.000   187.37  50.00- 150.00   100.00
  5.114   5.114 (0.929)    77   1438837                    0.00-  73.42    22.89
-------------------------------------------------------------------------------
   93 tert-amyl-Methyl Ether                         CAS #: 994-05-8
  5.212   5.212 (1.137)    73    664553 20.0000    19.774  50.00- 150.00   100.00
  5.212   5.212 (1.137)    87    164709                    0.00-  75.15    24.78
  5.212   5.212 (1.137)    55    222652                    0.00-  87.94    33.50
-------------------------------------------------------------------------------
   94 1,2-Dichloroethane                             CAS #: 107-06-2
  5.198   5.198 (0.944)    62   3715956 200.000   199.82  50.00- 150.00   100.00
  5.198   5.198 (0.944)    64   1195665                    0.00-  83.91    32.18
-------------------------------------------------------------------------------
   95 Heptane                                        CAS #: 142-82-5
  5.296   5.296 (0.962)    71   2346770 200.000   194.81  50.00- 150.00   100.00
  5.296   5.296 (0.962)    43   4420141                 140.26- 240.26   188.35
  5.296   5.296 (0.962)    57   2495211                  59.88- 159.88   106.33
-------------------------------------------------------------------------------
  104 Trichloroethene                                CAS #: 79-01-6
  5.702   5.702 (1.036)    95   3179515 200.000   193.64  50.00- 150.00   100.00
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  104 Trichloroethene (continued)
  5.702   5.702 (1.036)   130   3117515                    49.11- 149.11    98.05
  5.702   5.702 (1.036)    97   2073400                    15.29- 115.29    65.21
-------------------------------------------------------------------------------
  105 Methyl Cyclohexane                           CAS #: 108-87-2
  5.800   5.800 (1.266)    83   4163786 200.000   188.42  50.00- 150.00   100.00
  5.800   5.800 (1.266)    98   2024757                     0.00-  98.14    48.63
  5.800   5.800 (1.266)    55   3684863                    38.79- 138.79    88.50
-------------------------------------------------------------------------------
  106 1,2-Dichloropropane                          CAS #: 78-87-5
  5.926   5.926 (1.076)    63   2782013 200.000   195.65  50.00- 150.00   100.00
  5.926   5.926 (1.076)    62   1946637                    20.55- 120.55    69.97
  5.926   5.926 (1.076)    41   1629874                    11.27- 111.27    58.59
-------------------------------------------------------------------------------
  107 1,4-Dioxane                                  CAS #: 123-91-1
  6.038   6.038 (1.097)    88   1717735 200.000   203.06  50.00- 150.00   100.00(A)
  6.038   6.038 (1.097)    58   1344204                    26.67- 126.67    78.25
  6.038   6.038 (1.097)    57    432625                     0.00-  76.79    25.19
-------------------------------------------------------------------------------
  108 Bromodichloromethane                         CAS #: 75-27-4
  6.164   6.164 (1.119)    83   5871943 200.000   205.56  50.00- 150.00   100.00(A)
  6.164   6.164 (1.119)    85   3665505                    12.41- 112.41    62.42
-------------------------------------------------------------------------------
  110 cis-1,3-Dichloropropene                      CAS #: 10061-01-5
  6.555   6.555 (1.191)    75   4554253 200.000   211.10  50.00- 150.00   100.00(A)
  6.555   6.555 (1.191)    77   1440915                     0.00-  82.98    31.64
  6.555   6.555 (1.191)    39   2295580                     1.60- 101.60    50.41
-------------------------------------------------------------------------------
  112 4-Methyl-2-pentanone                         CAS #: 108-10-1
  6.681   6.681 (1.213)    58   2642119 200.000   210.05  50.00- 150.00   100.00(A)
  6.681   6.681 (1.213)    43   6757099                   205.82- 305.82   255.75
  6.681   6.681 (1.213)    85   1096559                     0.00-  91.74    41.50
-------------------------------------------------------------------------------
  115 Toluene                                      CAS #: 108-88-3
  6.793   6.793 (1.234)    91   9271016 200.000   193.07  50.00- 150.00   100.00
  6.793   6.793 (1.234)    92   5606162                    10.33- 110.33    60.47
-------------------------------------------------------------------------------
  118 trans-1,3-Dichloropropene                    CAS #: 10061-02-6
  7.031   7.031 (0.884)    75   5163834 200.000   212.84  50.00- 150.00   100.00(A)
  7.045   7.045 (0.886)    77   1653075                     0.00-  84.69    32.01
  7.031   7.031 (0.884)    39   2391246                     0.00-  96.57    46.31
-------------------------------------------------------------------------------
  120 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.185   7.185 (0.903)    97   3381298 200.000   193.55  50.00- 150.00   100.00
  7.185   7.185 (0.903)    99   2108600                    11.31- 111.31    62.36
  7.185   7.185 (0.903)    83   2884673                    37.82- 137.82    85.31
-------------------------------------------------------------------------------
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  122 Tetrachloroethene                             CAS #: 127-18-4
  7.227   7.227 (0.909)   166   4427549 200.000   187.21  50.00- 150.00   100.00
  7.227   7.227 (0.909)   129   3399155                   24.82- 124.82    76.77
  7.227   7.227 (0.909)   131   3271556                   24.46- 124.46    73.89
-------------------------------------------------------------------------------
  125 2-Hexanone                                    CAS #: 591-78-6
  7.381   7.381 (0.928)    58   4026245 200.000   207.30  50.00- 150.00   100.00(A)
  7.367   7.367 (0.926)    43   7552614                  131.13- 231.13   187.58
  7.381   7.381 (0.928)   100    805580                    0.00-  69.98    20.01
-------------------------------------------------------------------------------
  128 Dibromochloromethane                          CAS #: 124-48-1
  7.493   7.493 (0.942)   129   6308619 200.000   204.20  50.00- 150.00   100.00(A)
  7.493   7.493 (0.942)   127   4854544                   26.70- 126.70    76.95
-------------------------------------------------------------------------------
  130 1,2-Dibromoethane                             CAS #: 106-93-4
  7.591   7.591 (0.954)   107   5540605 200.000   196.46  50.00- 150.00   100.00
  7.591   7.591 (0.954)   109   5292832                   45.76- 145.76    95.53
-------------------------------------------------------------------------------
  135 Chlorobenzene                                 CAS #: 108-90-7
  7.983   7.983 (1.004)   112   8467461 200.000   173.56  50.00- 150.00   100.00
  7.983   7.983 (1.004)   114   2712826                    0.00-  82.34    32.04
  7.983   7.983 (1.004)    77   4975414                   17.83- 117.83    58.76
-------------------------------------------------------------------------------
  137 Ethyl Benzene                                 CAS #: 100-41-4
  8.039   8.039 (1.011)   106   4400502 200.000   195.80  50.00- 150.00   100.00
  8.039   8.039 (1.011)    91  13848779                  271.23- 371.23   314.71
-------------------------------------------------------------------------------
  140 m,p-Xylene                                    CAS #: 108-38-3
  8.136   8.136 (1.023)   106   5691469 200.000   194.50  50.00- 150.00   100.00
  8.136   8.136 (1.023)    91  11496907                  145.19- 245.19   202.00
-------------------------------------------------------------------------------
  141 o-Xylene                                      CAS #: 95-47-6
  8.472   8.472 (1.065)   106   5277547 200.000   189.28  50.00- 150.00   100.00
  8.472   8.472 (1.065)    91  11175673                  163.74- 263.74   211.76
-------------------------------------------------------------------------------
  142 Styrene                                       CAS #: 100-42-5
  8.500   8.500 (1.069)   104   8504660 200.000   190.77  50.00- 150.00   100.00
  8.500   8.500 (1.069)    78   4548036                    3.22- 103.22    53.48
-------------------------------------------------------------------------------
  145 Bromoform                                     CAS #: 75-25-2
  8.682   8.682 (1.091)   173   6172578 200.000   206.22  50.00- 150.00   100.00(A)
  8.682   8.682 (1.091)   171   3156138                    1.08- 101.08    51.13
-------------------------------------------------------------------------------
  147 Cumene                                        CAS #: 98-82-8
  8.766   8.766 (1.102)   105  14427987 200.000   172.27  50.00- 150.00   100.00(A)
  8.766   8.766 (1.102)   120   4237503                    0.00-  76.35    29.37
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  147 Cumene (continued)
  8.766   8.766 (1.102)    51   1637432                     0.00-  60.48    11.35
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.074   9.074 (1.141)    83   8486549 200.000   190.35  50.00- 150.00   100.00
  9.074   9.074 (1.141)    85   5383088                    11.85- 111.85    63.43
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.200   9.200 (1.157)   120   5146297 200.000   190.60  50.00- 150.00   100.00
  9.200   9.200 (1.157)   105  15122347                   285.66- 385.66   293.85
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.256   9.256 (1.164)   120   7005481 200.000   183.98  50.00- 150.00   100.00
  9.256   9.256 (1.164)   105  13641804                   161.17- 261.17   194.73
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.578   9.578 (1.204)   120   6474688 200.000   188.59  50.00- 150.00   100.00(A)
  9.578   9.578 (1.204)   105  14205765                   168.63- 268.63   219.40
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.829   9.829 (1.236)   146   9757377 200.000   189.38  50.00- 150.00   100.00
  9.829   9.829 (1.236)   148   6217521                    14.02- 114.02    63.72
  9.829   9.829 (1.236)   111   4129224                     0.00-  92.07    42.32
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.913   9.913 (1.246)   146   9579870 200.000   182.92  50.00- 150.00   100.00
  9.913   9.913 (1.246)   148   6171939                    13.17- 113.17    64.43
  9.913   9.913 (1.246)   111   4013742                     0.00-  90.44    41.90
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.039  10.039 (1.262)    91  14681639 200.000   222.82  50.00- 150.00   100.00(A)
 10.039  10.039 (1.262)   126   3066343                     0.00-  70.60    20.89
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.235  10.235 (1.287)   146   9150518 200.000   186.54  50.00- 150.00   100.00
 10.235  10.235 (1.287)   148   5880693                    12.90- 112.90    64.27
 10.235  10.235 (1.287)   111   4011029                     0.00-  93.42    43.83
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.550  11.550 (1.452)   180   8421492 200.000   190.51  50.00- 150.00   100.00
 11.550  11.550 (1.452)   182   8023951                    45.06- 145.06    95.28
-------------------------------------------------------------------------------
  175 Hexachlorobutadiene                          CAS #: 87-68-3
 11.648  11.648 (1.464)   225   5735046 200.000   177.30  50.00- 150.00   100.00
 11.648  11.648 (1.464)   223   3596894                    44.84- 144.84    62.72
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
176 Naphthalene					CAS #: 91-20-3		
11.774	11.774 (1.480)	128	2303629	20.0000	20.966	50.00- 150.00	100.00
11.774	11.774 (1.480)	127	283341			0.00- 62.92	12.30

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: msdd.i
Lab File ID: d092408.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdd.i/24sep10.b/d10q0924a.m
Misc Info: 00ppbv (200ppbv)

Calibration Date: 24-SEP-2010
Calibration Time: 11:44
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

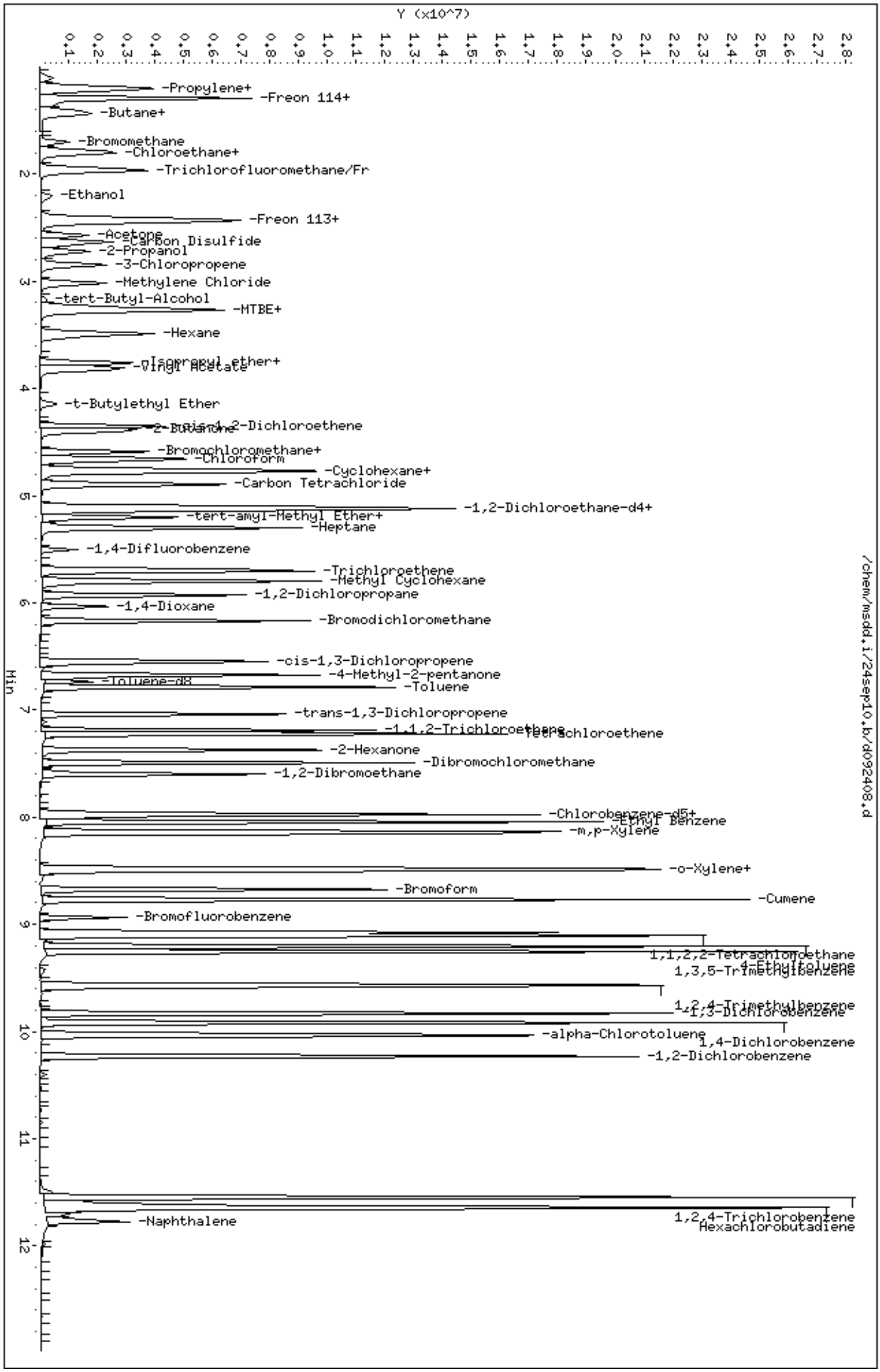
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	219753	131852	307654	232470	5.79
100 1,4-Difluorobenze	915405	549243	1281567	976670	6.69
134 Chlorobenzene-d5	1036280	621768	1450792	1131175	9.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.94	7.61	8.27	7.95	0.18

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.

Data File: /chem/msdd.i/24sep10.b/d092408.d
Date : 24-SEP-2010 12:20
Client ID: Level 7
Sample Info: 200mL #1936-309
Column phase: RTx-624

Instrument: msdd.i
Operator: mtw
Column diameter: 0.53



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1009578A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 09:52 AM**

Compound	%Recovery
Freon 12	106
Freon 114	102
Chloromethane	100
Vinyl Chloride	115
1,3-Butadiene	103
Bromomethane	96
Chloroethane	99
Freon 11	106
Ethanol	99
Freon 113	101
1,1-Dichloroethene	102
Acetone	94
2-Propanol	99
Carbon Disulfide	101
3-Chloropropene	104
Methylene Chloride	99
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	104
Hexane	98
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	102
Tetrahydrofuran	100
Chloroform	102
1,1,1-Trichloroethane	104
Cyclohexane	98
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	104
Benzene	97
1,2-Dichloroethane	103
Heptane	103
Trichloroethene	103
1,2-Dichloropropane	103
1,4-Dioxane	101
Bromodichloromethane	105
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	105
Toluene	100
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	104
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1009578A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 09:52 AM**	

Compound	**%Recovery**
2-Hexanone	104
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	104
Chlorobenzene	91
Ethyl Benzene	103
m,p-Xylene	101
o-Xylene	102
Styrene	102
Bromoform	107
Cumene	104
1,1,2,2-Tetrachloroethane	102
Propylbenzene	102
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	102

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdd.i Injection Date: 25-SEP-2010 09:52
Lab File ID: d092503.d Init. Cal. Date(s): 24-SEP-2010 24-SEP-2010
Analysis Type: AIR Init. Cal. Times: 10:12 12:20
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdd.i/25sep10.b/d10q0924a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 91 1,2-Dichloroethane-d4	1.66440	1.74080	0.010	-4.59053	30.00000	Averaged
$ 114 Toluene-d8	1.16357	1.15933	0.010	0.36448	30.00000	Averaged
$ 149 Bromofluorobenzene	0.64359	0.62642	0.010	2.66824	30.00000	Averaged
6 Propylene	0.62357	0.64752	0.010	-3.84177	30.00000	Averaged
7 Dichlorodifluoromethane/Fr1	2.64355	2.80710	0.010	-6.18657	30.00000	Averaged
10 Freon 114	1.81921	1.86428	0.010	-2.47791	30.00000	Averaged
13 Chloromethane	0.55265	0.55482	0.010	-0.39209	30.00000	Averaged
14 Butane	0.15873	0.17373	0.010	-9.44940	30.00000	Averaged
15 Vinyl Chloride	0.79016	0.90989	0.010	-15.15375	30.00000	Averaged
18 1,3-Butadiene	0.68893	0.71139	0.010	-3.26072	30.00000	Averaged
24 Bromomethane	0.84645	0.81319	0.010	3.92893	30.00000	Averaged
25 Chloroethane	0.51522	0.51246	0.010	0.53481	30.00000	Averaged
26 Isopentane	1.01953	1.11551	0.010	-9.41477	30.00000	Averaged
28 Trichlorofluoromethane/Fr11	2.91429	3.08607	0.010	-5.89455	30.00000	Averaged
29 Ethanol	0.35658	0.35239	0.010	1.17386	30.00000	Averaged
33 Freon 113	1.63267	1.65220	0.010	-1.19626	30.00000	Averaged
34 1,1-Dichloroethene	0.61068	0.62553	0.010	-2.43166	30.00000	Averaged
38 Acetone	0.47085	0.44110	0.010	6.31806	30.00000	Averaged
40 Carbon Disulfide	2.60391	2.63436	0.010	-1.16931	30.00000	Averaged
41 2-Propanol	1.65975	1.63780	0.010	1.32283	30.00000	Averaged
44 3-Chloropropene	0.44488	0.46243	0.010	-3.94308	30.00000	Averaged
46 Methylene Chloride	1.19762	1.18344	0.010	1.18411	30.00000	Averaged
48 tert-Butyl-Alcohol	2.10144	1.87728	0.010	10.66695	30.00000	Averaged
50 MTBE	2.85465	2.85740	0.010	-0.09637	30.00000	Averaged
52 trans-1,2-Dichloroethene	0.64385	0.66973	0.010	-4.02035	30.00000	Averaged
58 Hexane	1.76554	1.72967	0.010	2.03140	30.00000	Averaged
63 Isopropyl ether	4.39523	4.24953	0.010	3.31496	30.00000	Averaged
64 1,1-Dichloroethane	2.13547	2.14854	0.010	-0.61193	30.00000	Averaged
65 Vinyl Acetate	0.24515	0.23656	0.010	3.50458	30.00000	Averaged
72 t-Butylethyl Ether	3.88744	3.93992	0.010	-1.35002	30.00000	Averaged
74 cis-1,2-Dichloroethene	0.74208	0.75482	0.010	-1.71703	30.00000	Averaged
75 2-Butanone	0.50950	0.50802	0.010	0.29019	30.00000	Averaged
78 Tetrahydrofuran	1.32440	1.33231	0.010	-0.59719	30.00000	Averaged
80 Chloroform	2.61877	2.67638	0.010	-2.19977	30.00000	Averaged
83 Cyclohexane	1.58910	1.56046	0.010	1.80200	30.00000	Averaged
85 1,1,1-Trichloroethane	2.74521	2.85801	0.010	-4.10896	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdd.i Injection Date: 25-SEP-2010 09:52
Lab File ID: d092503.d Init. Cal. Date(s): 24-SEP-2010 24-SEP-2010
Analysis Type: AIR Init. Cal. Times: 10:12 12:20
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdd.i/25sep10.b/d10q0924a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
86 Carbon Tetrachloride	2.38123	2.60183	0.010	-9.26402	30.00000	Averaged
89 2,2,4-Trimethylpentane	6.24652	6.48593	0.010	-3.83262	30.00000	Averaged
90 Benzene	0.85880	0.83087	0.010	3.25246	30.00000	Averaged
93 tert-amyl-Methyl Ether	3.61424	3.66657	0.010	-1.44766	30.00000	Averaged
94 1,2-Dichloroethane	0.47602	0.48844	0.010	-2.60825	30.00000	Averaged
95 Heptane	0.30835	0.31658	0.010	-2.67053	30.00000	Averaged
104 Trichloroethene	0.42030	0.43225	0.010	-2.84342	30.00000	Averaged
105 Methyl Cyclohexane	2.37643	2.43886	0.010	-2.62710	30.00000	Averaged
106 1,2-Dichloropropane	0.36397	0.37382	0.010	-2.70741	30.00000	Averaged
107 1,4-Dioxane	0.21653	0.21873	0.010	-1.01526	30.00000	Averaged
108 Bromodichloromethane	0.73122	0.77062	0.010	-5.38831	30.00000	Averaged
110 cis-1,3-Dichloropropene	0.55223	0.56434	0.010	-2.19297	30.00000	Averaged
112 4-Methyl-2-pentanone	0.32197	0.33780	0.010	-4.91667	30.00000	Averaged
115 Toluene	1.22917	1.22833	0.010	0.06880	30.00000	Averaged
118 trans-1,3-Dichloropropene	0.53621	0.55174	0.010	-2.89561	30.00000	Averaged
120 1,1,2-Trichloroethane	0.38610	0.40048	0.010	-3.72447	30.00000	Averaged
122 Tetrachloroethene	0.52269	0.53320	0.010	-2.01043	30.00000	Averaged
125 2-Hexanone	0.42924	0.44458	0.010	-3.57321	30.00000	Averaged
128 Dibromochloromethane	0.68281	0.72835	0.010	-6.66977	30.00000	Averaged
130 1,2-Dibromoethane	0.62328	0.64527	0.010	-3.52792	30.00000	Averaged
135 Chlorobenzene	1.07820	0.98648	0.010	8.50666	30.00000	Averaged
137 Ethyl Benzene	0.49672	0.51077	0.010	-2.82988	30.00000	Averaged
140 m,p-Xylene	0.64673	0.65402	0.010	-1.12768	30.00000	Averaged
141 o-Xylene	0.61622	0.63026	0.010	-2.27755	30.00000	Averaged
142 Styrene	0.98528	1.00436	0.010	-1.93653	30.00000	Averaged
145 Bromoform	0.66151	0.71027	0.010	-7.37131	30.00000	Averaged
147 Cumene	1.85100	1.93014	0.010	-4.27530	30.00000	Averaged
151 1,1,2,2-Tetrachloroethane	0.98535	1.00634	0.010	-2.13038	30.00000	Averaged
153 Propylbenzene	2.31740	2.36367	0.010	-1.99666	30.00000	Averaged
155 4-Ethyltoluene	0.59673	0.60213	0.010	-0.90519	30.00000	Averaged
156 1,3,5-Trimethylbenzene	0.84156	0.83192	0.010	1.14519	30.00000	Averaged
162 1,2,4-Trimethylbenzene	0.75877	0.75504	0.010	0.49192	30.00000	Averaged
165 1,3-Dichlorobenzene	1.13867	1.14626	0.010	-0.66649	30.00000	Averaged
166 1,4-Dichlorobenzene	1.15748	1.16270	0.010	-0.45108	30.00000	Averaged
168 alpha-Chlorotoluene	1.45621	1.46412	0.010	-0.54314	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdd.i Injection Date: 25-SEP-2010 09:52
Lab File ID: d092503.d Init. Cal. Date(s): 24-SEP-2010 24-SEP-2010
Analysis Type: AIR Init. Cal. Times: 10:12 12:20
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdd.i/25sep10.b/d10q0924a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
171 1,2-Dichlorobenzene	1.08416	1.08643	0.010	-0.20937	30.00000	Averaged
174 1,2,4-Trichlorobenzene	0.97699	0.96734	0.010	0.98809	30.00000	Averaged
175 Hexachlorobutadiene	0.71489	0.72671	0.010	-1.65260	30.00000	Averaged
176 Naphthalene	2.42828	2.28799	0.010	5.77741	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/25sep10.b/d092503.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 25-SEP-2010 09:52
Operator : ccy Inst ID: msdd.i
Smp Info : 50mL #1936-309
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msdd.i/25sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 15:14 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:20 Cal File: d092408.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	211394	25.0000		80.00- 120.00	100.00
4.583	4.583 (1.000)	128	162338			27.74- 127.74	76.79
4.583	4.583 (1.000)	49	300496			89.66- 189.66	142.15
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	892044	25.0000		80.00- 120.00	100.00
5.506	5.506 (1.000)	88	149432			0.00- 66.37	16.75
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	1020742	25.0000		80.00- 120.00	100.00
7.955	7.955 (1.000)	82	610560			8.79- 108.79	59.82
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.128	5.128 (1.119)	65	367995	25.0000	26.148	80.00- 120.00	100.00
5.128	5.128 (1.119)	67	200394			2.94- 102.94	54.46
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.737	6.737 (1.224)	98	1034169	25.0000	24.909	80.00- 120.00	100.00
6.737	6.737 (1.224)	70	119533			0.00- 61.29	11.56

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

$ 114 Toluene-d8 (continued)
  6.737   6.737 (1.224)   100    681101                   16.69- 116.69    65.86
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                            CAS #: 460-00-4
  8.948   8.948 (1.125)   174    639413 25.0000   24.333  80.00- 120.00   100.00
  8.934   8.934 (1.123)    95    874985                   87.50- 187.50   136.84
  8.948   8.948 (1.125)   176    614865                   46.73- 146.73    96.16
-------------------------------------------------------------------------------
    6 Propylene                                     CAS #: 115-07-1
  1.169   1.169 (0.255)    41    273765 50.0000   51.921  80.00- 120.00   100.00
  1.169   1.169 (0.255)    42    178308                   19.00- 119.00    65.13
  1.183   1.183 (0.258)    39    215635                   30.01- 130.01    78.77
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  1.197   1.197 (0.261)    85   1186808 50.0000   53.093  80.00- 120.00   100.00
  1.197   1.197 (0.261)    87    380054                    0.00-  82.63    32.02
-------------------------------------------------------------------------------
   10 Freon 114                                     CAS #: 76-14-2
  1.295   1.295 (0.282)   135    788197 50.0000   51.239  80.00- 120.00   100.00
  1.295   1.295 (0.282)   137    247266                    0.00-  81.88    31.37
-------------------------------------------------------------------------------
   13 Chloromethane                                 CAS #: 74-87-3
  1.337   1.337 (0.292)    50    234572 50.0000   50.196  80.00- 120.00   100.00
  1.337   1.337 (0.292)    52     72288                    0.00-  81.18    30.82
-------------------------------------------------------------------------------
   14 Butane                                        CAS #: 106-97-8
  1.407   1.407 (0.307)    58     73452 50.0000   54.725  80.00- 120.00   100.00
  1.407   1.407 (0.307)    43    505070                  624.15- 724.15   687.62
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                CAS #: 75-01-4
  1.435   1.435 (0.313)    62    384692 50.0000   57.577  80.00- 120.00   100.00
  1.421   1.421 (0.310)    64    119187                    0.00-  85.43    30.98
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                 CAS #: 106-99-0
  1.449   1.449 (0.316)    54    300767 50.0000   51.630  80.00- 120.00   100.00
  1.449   1.449 (0.316)    39    396419                   71.50- 171.50   131.80
-------------------------------------------------------------------------------
   24 Bromomethane                                  CAS #: 74-83-9
  1.700   1.700 (0.371)    94    343807 50.0000   48.036  80.00- 120.00   100.00
  1.700   1.700 (0.371)    96    328990                   43.18- 143.18    95.69
-------------------------------------------------------------------------------
   25 Chloroethane                                  CAS #: 75-00-3
  1.784   1.784 (0.389)    64    216664 50.0000   49.732  80.00- 120.00   100.00
  1.784   1.784 (0.389)    66     69692                    0.00-  83.84    32.17
  1.784   1.784 (0.389)    49     62460                    0.00-  75.97    28.83
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
26 Isopentane					CAS #: 78-78-4		
1.812	1.812 (0.395)	43	471625	50.0000	54.707	80.00- 120.00	100.00
1.812	1.812 (0.395)	57	335105			23.31- 123.31	71.05
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
1.966	1.966 (0.429)	101	1304753	50.0000	52.947	80.00- 120.00	100.00
1.966	1.966 (0.429)	103	844493			16.00- 116.00	64.72
29 Ethanol					CAS #: 64-17-5		
2.176	2.176 (0.475)	45	148988	50.0000	49.413	80.00- 120.00	100.00
2.176	2.176 (0.475)	43	34971			0.00- 73.09	23.47
2.176	2.176 (0.475)	46	58207			0.00- 90.22	39.07
33 Freon 113					CAS #: 76-13-1		
2.428	2.428 (0.530)	151	698530	50.0000	50.598	80.00- 120.00	100.00
2.428	2.428 (0.530)	153	445325			14.08- 114.08	63.75
2.428	2.428 (0.530)	101	885030			76.51- 176.51	126.70
34 1,1-Dichloroethene					CAS #: 75-35-4		
2.442	2.442 (0.533)	98	264466	50.0000	51.216	80.00- 120.00	100.00
2.442	2.442 (0.533)	96	414638			112.09- 212.09	156.78
2.442	2.442 (0.533)	61	767682			244.07- 344.07	290.28
38 Acetone					CAS #: 67-64-1		
2.554	2.554 (0.557)	58	186491	50.0000	46.841	80.00- 120.00	100.00
2.554	2.554 (0.557)	43	653863			289.34- 389.34	350.61
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	1113775	50.0000	50.585	80.00- 120.00	100.00
41 2-Propanol					CAS #: 67-63-0		
2.694	2.694 (0.588)	45	692441	50.0000	49.338	80.00- 120.00	100.00
2.694	2.694 (0.588)	43	160357			0.00- 73.36	23.16
2.694	2.694 (0.588)	59	25622			0.00- 53.87	3.70
44 3-Chloropropene					CAS #: 107-05-1		
2.848	2.848 (0.621)	76	195508	50.0000	51.972	80.00- 120.00	100.00
2.848	2.848 (0.621)	41	518263			230.86- 330.86	265.09
46 Methylene Chloride					CAS #: 75-09-2		
3.016	3.016 (0.658)	49	500345	50.0000	49.408	80.00- 120.00	100.00
3.016	3.016 (0.658)	84	361939			23.22- 123.22	72.34
3.016	3.016 (0.658)	51	153622			0.00- 83.45	30.70
48 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.156	3.156 (0.689)	59	79369	5.00000	4.467	80.00- 120.00	100.00

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   48 tert-Butyl-Alcohol (continued)
  3.156   3.156 (0.689)    41     17619                     0.00-  87.45    22.20
  3.156   3.156 (0.689)    57      8684                     0.00-  77.87    10.94
-------------------------------------------------------------------------------
   50 MTBE                                          CAS #: 1634-04-4
  3.253   3.253 (0.710)    73   1208075 50.0000   50.048  80.00- 120.00   100.00
  3.253   3.253 (0.710)    57    267428                     0.00-  74.20    22.14
  3.253   3.253 (0.710)    41    280311                     0.00-  73.88    23.20
-------------------------------------------------------------------------------
   52 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.268   3.268 (0.713)    98    283155 50.0000   52.010  80.00- 120.00   100.00
  3.268   3.268 (0.713)    61    692595                   199.14- 299.14   244.60
  3.268   3.268 (0.713)    96    437249                   115.75- 215.75   154.42
-------------------------------------------------------------------------------
   58 Hexane                                        CAS #: 110-54-3
  3.491   3.491 (0.762)    57    731284 50.0000   48.984  80.00- 120.00   100.00
  3.491   3.491 (0.762)    43    446518                     8.36- 108.36    61.06
  3.491   3.491 (0.762)    86    116632                     0.00-  64.99    15.95
-------------------------------------------------------------------------------
   63 Isopropyl ether                               CAS #: 108-20-3
  3.771   3.771 (0.823)    45    179665 5.00000    4.834  80.00- 120.00   100.00
  3.771   3.771 (0.823)    87     54491                     0.00-  80.45    30.33
  3.771   3.771 (0.823)    59     22552                     0.00-  62.10    12.55
-------------------------------------------------------------------------------
   64 1,1-Dichloroethane                            CAS #: 75-34-3
  3.757   3.757 (0.820)    63    908376 50.0000   50.306  80.00- 120.00   100.00
  3.757   3.757 (0.820)    65    285162                     0.00-  81.76    31.39
-------------------------------------------------------------------------------
   65 Vinyl Acetate                                 CAS #: 108-05-4
  3.813   3.813 (0.832)    86    100013 50.0000   48.248  80.00- 120.00   100.00
  3.813   3.813 (0.832)    43   1224727                  1105.35-1205.35  1224.57
-------------------------------------------------------------------------------
   72 t-Butylethyl Ether                            CAS #: 637-92-3
  4.135   4.135 (0.902)    59    166575 5.00000    5.068  80.00- 120.00   100.00
  4.149   4.149 (0.905)    87     64604                     0.00-  88.67    38.78
  4.135   4.135 (0.902)    41     36470                     0.00-  69.90    21.89
-------------------------------------------------------------------------------
   74 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.359   4.359 (0.951)    98    319128 50.0000   50.858  80.00- 120.00   100.00
  4.359   4.359 (0.951)    96    489774                   105.73- 205.73   153.47
  4.359   4.359 (0.951)    61    733399                   177.29- 277.29   229.81
-------------------------------------------------------------------------------
   75 2-Butanone                                    CAS #: 78-93-3
  4.387   4.387 (0.957)    72    214786 50.0000   49.855  80.00- 120.00   100.00
  4.387   4.387 (0.957)    43   1015853                   398.18- 498.18   472.96
  4.387   4.387 (0.957)    57     84588                     0.00-  94.52    39.38
-------------------------------------------------------------------------------
```

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   78 Tetrahydrofuran                                CAS #: 109-99-9
  4.583   4.583 (1.000)    42    563284 50.0000   50.298  80.00- 120.00   100.00
  4.597   4.597 (1.003)    71    202989                    0.00-  86.23    36.04
  4.597   4.597 (1.003)    72    217321                    0.00-  90.19    38.58
-------------------------------------------------------------------------------
   80 Chloroform                                     CAS #: 67-66-3
  4.667   4.667 (1.018)    83   1131542 50.0000   51.100  80.00- 120.00   100.00
  4.667   4.667 (1.018)    85    713486                   11.87- 111.87    63.05
-------------------------------------------------------------------------------
   83 Cyclohexane                                    CAS #: 110-82-7
  4.765   4.765 (1.040)    84    659744 50.0000   49.099  80.00- 120.00   100.00
  4.765   4.765 (1.040)    56    827895                   73.57- 173.57   125.49
  4.765   4.765 (1.040)    41    457212                   18.19- 118.19    69.30
-------------------------------------------------------------------------------
   85 1,1,1-Trichloroethane                          CAS #: 71-55-6
  4.779   4.779 (1.043)    97   1208332 50.0000   52.054  80.00- 120.00   100.00
  4.779   4.779 (1.043)    99    773815                   14.20- 114.20    64.04
-------------------------------------------------------------------------------
   86 Carbon Tetrachloride                           CAS #: 56-23-5
  4.905   4.905 (1.070)   119   1100023 50.0000   54.632  80.00- 120.00   100.00
  4.905   4.905 (1.070)   117   1144748                   52.41- 152.41   104.07
-------------------------------------------------------------------------------
   89 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.128   5.128 (1.119)    57   2742173 50.0000   51.916  80.00- 120.00   100.00
  5.128   5.128 (1.119)    56    875235                    0.00-  82.22    31.92
  5.128   5.128 (1.119)    41    717919                    0.00-  75.30    26.18
-------------------------------------------------------------------------------
   90 Benzene                                        CAS #: 71-43-2
  5.114   5.114 (0.929)    78   1482337 50.0000   48.374  80.00- 120.00   100.00
  5.114   5.114 (0.929)    77    352601                    0.00-  73.42    23.79
-------------------------------------------------------------------------------
   93 tert-amyl-Methyl Ether                         CAS #: 994-05-8
  5.212   5.212 (1.137)    73    155018 5.00000    5.072  80.00- 120.00   100.00
  5.212   5.212 (1.137)    87     38528                    0.00-  75.15    24.85
  5.212   5.212 (1.137)    55     56908                    0.00-  87.94    36.71
-------------------------------------------------------------------------------
   94 1,2-Dichloroethane                             CAS #: 107-06-2
  5.198   5.198 (0.944)    62    871417 50.0000   51.304  80.00- 120.00   100.00
  5.198   5.198 (0.944)    64    288800                    0.00-  83.91    33.14
-------------------------------------------------------------------------------
   95 Heptane                                        CAS #: 142-82-5
  5.296   5.296 (0.962)    71    564812 50.0000   51.335  80.00- 120.00   100.00
  5.296   5.296 (0.962)    43   1082709                  140.26- 240.26   191.69
  5.296   5.296 (0.962)    57    601757                   59.88- 159.88   106.54
-------------------------------------------------------------------------------
  104 Trichloroethene                                CAS #: 79-01-6
  5.702   5.702 (1.036)    95    771175 50.0000   51.422  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
104 Trichloroethene (continued)							
5.702	5.702 (1.036)	130	754213			49.11- 149.11	97.80
5.702	5.702 (1.036)	97	492824			15.29- 115.29	63.91
105 Methyl Cyclohexane					CAS #: 108-87-2		
5.800	5.800 (1.266)	83	1031122	50.0000	51.314	80.00- 120.00	100.00
5.800	5.800 (1.266)	98	503058			0.00- 98.14	48.79
5.800	5.800 (1.266)	55	925985			38.79- 138.79	89.80
106 1,2-Dichloropropane					CAS #: 78-87-5		
5.926	5.926 (1.076)	63	666934	50.0000	51.354	80.00- 120.00	100.00
5.926	5.926 (1.076)	62	464795			20.55- 120.55	69.69
5.926	5.926 (1.076)	41	401803			11.27- 111.27	60.25
107 1,4-Dioxane					CAS #: 123-91-1		
6.038	6.038 (1.097)	88	390226	50.0000	50.508	80.00- 120.00	100.00
6.038	6.038 (1.097)	58	307487			26.67- 126.67	78.80
6.038	6.038 (1.097)	57	99400			0.00- 76.79	25.47
108 Bromodichloromethane					CAS #: 75-27-4		
6.164	6.164 (1.119)	83	1374846	50.0000	52.694	80.00- 120.00	100.00
6.164	6.164 (1.119)	85	851821			12.41- 112.41	61.96
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.556	6.556 (1.191)	75	1006824	50.0000	51.096	80.00- 120.00	100.00
6.556	6.556 (1.191)	77	325361			0.00- 82.98	32.32
6.556	6.556 (1.191)	39	525772			1.60- 101.60	52.22
112 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.681	6.681 (1.213)	58	602665	50.0000	52.458	80.00- 120.00	100.00
6.681	6.681 (1.213)	43	1585567			205.82- 305.82	263.09
6.681	6.681 (1.213)	85	248282			0.00- 91.74	41.20
115 Toluene					CAS #: 108-88-3		
6.793	6.793 (1.234)	91	2191442	50.0000	49.966	80.00- 120.00	100.00
6.793	6.793 (1.234)	92	1304227			10.33- 110.33	59.51
118 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.045	7.045 (0.886)	75	1126370	50.0000	51.448	80.00- 120.00	100.00
7.045	7.045 (0.886)	77	360319			0.00- 84.69	31.99
7.045	7.045 (0.886)	39	536975			0.00- 96.57	47.67
120 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.185	7.185 (0.903)	97	817580	50.0000	51.862	80.00- 120.00	100.00
7.185	7.185 (0.903)	99	507350			11.31- 111.31	62.06
7.185	7.185 (0.903)	83	697300			37.82- 137.82	85.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.227	7.227 (0.909)	166	1088524	50.0000	51.005	80.00- 120.00	100.00
7.227	7.227 (0.909)	129	832809			24.82- 124.82	76.51
7.227	7.227 (0.909)	131	799714			24.46- 124.46	73.47
125 2-Hexanone					CAS #: 591-78-6		
7.381	7.381 (0.928)	58	907598	50.0000	51.787	80.00- 120.00	100.00
7.381	7.381 (0.928)	43	1721595			131.13- 231.13	189.69
7.381	7.381 (0.928)	100	183449			0.00- 69.98	20.21
128 Dibromochloromethane					CAS #: 124-48-1		
7.493	7.493 (0.942)	129	1486912	50.0000	53.335	80.00- 120.00	100.00
7.493	7.493 (0.942)	127	1152069			26.70- 126.70	77.48
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.591	7.591 (0.954)	107	1317307	50.0000	51.764	80.00- 120.00	100.00
7.591	7.591 (0.954)	109	1247377			45.76- 145.76	94.69
135 Chlorobenzene					CAS #: 108-90-7		
7.983	7.983 (1.004)	112	2013883	50.0000	45.747	80.00- 120.00	100.00
7.983	7.983 (1.004)	114	646538			0.00- 82.34	32.10
7.983	7.983 (1.004)	77	1186855			17.83- 117.83	58.93
137 Ethyl Benzene					CAS #: 100-41-4		
8.039	8.039 (1.011)	106	1042736	50.0000	51.415	80.00- 120.00	100.00
8.039	8.039 (1.011)	91	3326621			271.23- 371.23	319.03
140 m,p-Xylene					CAS #: 108-38-3		
8.151	8.151 (1.025)	106	1335177	50.0000	50.564	80.00- 120.00	100.00
8.151	8.151 (1.025)	91	2672289			145.19- 245.19	200.14
141 o-Xylene					CAS #: 95-47-6		
8.472	8.472 (1.065)	106	1286662	50.0000	51.139	80.00- 120.00	100.00
8.472	8.472 (1.065)	91	2748034			163.74- 263.74	213.58
142 Styrene					CAS #: 100-42-5		
8.500	8.500 (1.069)	104	2050378	50.0000	50.968	80.00- 120.00	100.00
8.500	8.500 (1.069)	78	1096157			3.22- 103.22	53.46
145 Bromoform					CAS #: 75-25-2		
8.682	8.682 (1.091)	173	1450014	50.0000	53.686	80.00- 120.00	100.00
8.682	8.682 (1.091)	171	747616			1.08- 101.08	51.56
147 Cumene					CAS #: 98-82-8		
8.766	8.766 (1.102)	105	3940349	50.0000	52.138	80.00- 120.00	100.00
8.766	8.766 (1.102)	120	1030002			0.00- 76.35	26.14

```
                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  147 Cumene (continued)
  8.766   8.766 (1.102)    51    412518                     0.00-  60.48    10.47
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.074   9.074 (1.141)    83   2054425 50.0000   51.065  80.00- 120.00   100.00
  9.074   9.074 (1.141)    85   1290824                   11.85- 111.85    62.83
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.144)    91   4825394 50.0000   50.998  80.00- 120.00   100.00
  9.116   9.116 (1.146)   120   1110127                    0.00-  73.32    23.01
  9.116   9.116 (1.146)   105    179883                    0.00-  54.41     3.73
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.200   9.200 (1.157)   120   1229234 50.0000   50.452  80.00- 120.00   100.00
  9.200   9.200 (1.157)   105   4231611                  285.66- 385.66   344.25
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.256   9.256 (1.164)   120   1698352 50.0000   49.427  80.00- 120.00   100.00
  9.256   9.256 (1.164)   105   3562559                  161.17- 261.17   209.77
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.578   9.578 (1.204)   120   1541394 50.0000   49.754  80.00- 120.00   100.00
  9.578   9.578 (1.204)   105   3447107                  168.63- 268.63   223.64
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.844   9.844 (1.237)   146   2340068 50.0000   50.333  80.00- 120.00   100.00
  9.844   9.844 (1.237)   148   1487776                   14.02- 114.02    63.58
  9.830   9.830 (1.236)   111    974893                    0.00-  92.07    41.66
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.914   9.914 (1.246)   146   2373632 50.0000   50.226  80.00- 120.00   100.00
  9.914   9.914 (1.246)   148   1500664                   13.17- 113.17    63.22
  9.914   9.914 (1.246)   111    958416                    0.00-  90.44    40.38
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.040  10.040 (1.262)    91   2988986 50.0000   50.272  80.00- 120.00   100.00
 10.040  10.040 (1.262)   126    615929                    0.00-  70.60    20.61
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.235  10.235 (1.287)   146   2217920 50.0000   50.105  80.00- 120.00   100.00
 10.235  10.235 (1.287)   148   1416105                   12.90- 112.90    63.85
 10.235  10.235 (1.287)   111    973040                    0.00-  93.42    43.87
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.551  11.551 (1.452)   180   1974804 50.0000   49.506  80.00- 120.00   100.00
 11.551  11.551 (1.452)   182   1867013                   45.06- 145.06    94.54
-------------------------------------------------------------------------------
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene						CAS #: 87-68-3		
11.649	11.649	(1.464)	225	1483560	50.0000	50.826	80.00- 120.00	100.00
11.649	11.649	(1.464)	223	926233			44.84- 144.84	62.43
176 Naphthalene						CAS #: 91-20-3		
11.775	11.775	(1.480)	128	467089	5.00000	4.711	80.00- 120.00	100.00
11.775	11.775	(1.480)	127	56762			0.00- 62.92	12.15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092503.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: ccy
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 25-SEP-2010
Calibration Time: 09:52
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

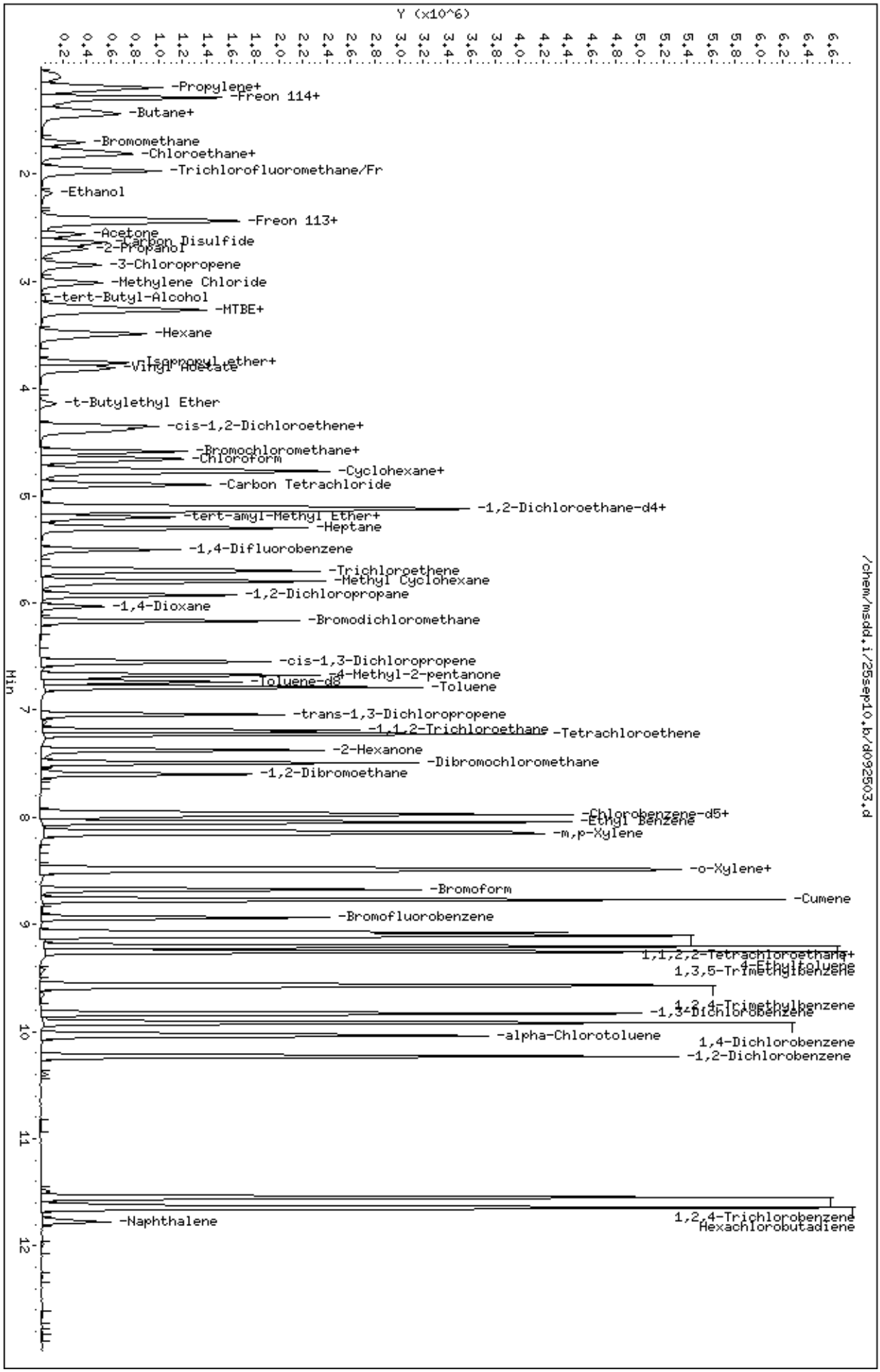
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	211394	126836	295952	211394	0.00
100 1,4-Difluorobenze	892044	535226	1248862	892044	0.00
134 Chlorobenzene-d5	1020742	612445	1429039	1020742	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.95	7.62	8.28	7.95	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.

Data File: /chem/msdd.i/25sep10.b/d092503.d
Date : 25-SEP-2010 09:52
Client ID: CCV
Sample Info: 50mL #1936-309
Column phase: RTx-624

Instrument: msdd.i
Operator: ccy
Column diameter: 0.53



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Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1009578A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 10:26 AM**	

Compound	%Recovery
Freon 12	109
Freon 114	105
Chloromethane	117
Vinyl Chloride	118
1,3-Butadiene	112
Bromomethane	103
Chloroethane	104
Freon 11	110
Ethanol	98
Freon 113	96
1,1-Dichloroethene	94
Acetone	93
2-Propanol	96
Carbon Disulfide	104
3-Chloropropene	104
Methylene Chloride	92
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	104
Hexane	98
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	101
Tetrahydrofuran	100
Chloroform	102
1,1,1-Trichloroethane	105
Cyclohexane	100
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	103
Benzene	98
1,2-Dichloroethane	103
Heptane	102
Trichloroethene	104
1,2-Dichloropropane	102
1,4-Dioxane	103
Bromodichloromethane	107
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	108
Toluene	96
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	104
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1009578A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 10:26 AM**	

Compound	**%Recovery**
2-Hexanone	105
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	109
Chlorobenzene	94
Ethyl Benzene	106
m,p-Xylene	103
o-Xylene	103
Styrene	106
Bromoform	113
Cumene	104
1,1,2,2-Tetrachloroethane	105
Propylbenzene	103
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	111

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 27-Sep-2010 15:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 25sep10
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: ccy
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926spectra.spk
Quant Type: ISTD
Sublist File: AT10.sub
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Propylene	50.000	50.473	100.95	60-140
7 Dichlorodifluorome	50.000	54.520	109.04	70-130
10 Freon 114	50.000	52.700	105.40	70-130
13 Chloromethane	50.000	58.666	117.33	70-130
15 Vinyl Chloride	50.000	59.151	118.30	70-130
18 1,3-Butadiene	50.000	55.784	111.57	60-140
24 Bromomethane	50.000	51.662	103.32	70-130
25 Chloroethane	50.000	52.051	104.10	70-130
28 Trichlorofluoromet	50.000	54.818	109.64	70-130
29 Ethanol	50.000	49.094	98.19	60-140
33 Freon 113	50.000	47.853	95.71	70-130
34 1,1-Dichloroethene	50.000	46.974	93.95	70-130
38 Acetone	50.000	46.453	92.91	60-140
40 Carbon Disulfide	50.000	51.946	103.89	60-140
41 2-Propanol	50.000	48.116	96.23	60-140
46 Methylene Chloride	50.000	46.067	92.13	70-130
50 MTBE	50.000	50.092	100.18	60-140
52 trans-1,2-Dichloro	50.000	51.811	103.62	60-140
58 Hexane	50.000	48.768	97.54	60-140
65 Vinyl Acetate	50.000	49.817	99.63	60-140
64 1,1-Dichloroethane	50.000	49.112	98.22	70-130
74 cis-1,2-Dichloroet	50.000	50.439	100.88	70-130
75 2-Butanone	50.000	51.724	103.45	60-140
78 Tetrahydrofuran	50.000	50.249	100.50	60-140
80 Chloroform	50.000	50.850	101.70	70-130
83 Cyclohexane	50.000	50.046	100.09	60-140
85 1,1,1-Trichloroeth	50.000	52.402	104.80	70-130
86 Carbon Tetrachlori	50.000	55.810	111.62	70-130
90 Benzene	50.000	49.153	98.31	70-130
94 1,2-Dichloroethane	50.000	51.313	102.63	70-130
95 Heptane	50.000	51.230	102.46	60-140
104 Trichloroethene	50.000	52.270	104.54	70-130
106 1,2-Dichloropropan	50.000	51.191	102.38	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 1,4-Dioxane	50.000	51.490	102.98	60-140
108 Bromodichlorometha	50.000	53.578	107.16	60-140
110 cis-1,3-Dichloropr	50.000	52.967	105.93	70-130
112 4-Methyl-2-pentano	50.000	53.842	107.68	60-140
115 Toluene	50.000	48.183	96.37	70-130
118 trans-1,3-Dichloro	50.000	54.221	108.44	70-130
120 1,1,2-Trichloroeth	50.000	51.988	103.98	70-130
122 Tetrachloroethene	50.000	51.234	102.47	70-130
125 2-Hexanone	50.000	52.313	104.63	60-140
128 Dibromochlorometha	50.000	55.341	110.68	60-140
130 1,2-Dibromoethane	50.000	54.705	109.41	70-130
135 Chlorobenzene	50.000	46.833	93.67	70-130
137 Ethyl Benzene	50.000	52.835	105.67	70-130
140 m,p-Xylene	50.000	51.560	103.12	70-130
141 o-Xylene	50.000	51.706	103.41	70-130
142 Styrene	50.000	53.032	106.06	70-130
145 Bromoform	50.000	56.317	112.63	60-140
151 1,1,2,2-Tetrachlor	50.000	52.545	105.09	70-130
155 4-Ethyltoluene	50.000	51.082	102.16	60-140
156 1,3,5-Trimethylben	50.000	51.714	103.43	70-130
162 1,2,4-Trimethylben	50.000	52.742	105.48	70-130
165 1,3-Dichlorobenzen	50.000	52.224	104.45	70-130
166 1,4-Dichlorobenzen	50.000	51.742	103.48	70-130
168 alpha-Chlorotoluen	50.000	53.383	106.77	70-130
171 1,2-Dichlorobenzen	50.000	53.383	106.77	70-130
174 1,2,4-Trichloroben	50.000	52.527	105.05	70-130
175 Hexachlorobutadien	50.000	55.348	110.70	70-130
153 Propylbenzene	50.000	51.719	103.44	60-140
147 Cumene	50.000	51.926	103.85	60-140
44 3-Chloropropene	50.000	52.100	104.20	60-140
89 2,2,4-Trimethylpen	50.000	51.407	102.81	60-140
26 Isopentane	50.000	57.505	115.01	70-130
14 Butane	50.000	59.096	118.19	70-130
105 Methyl Cyclohexane	50.000	50.648	101.30	70-130
48 tert-Butyl-Alcohol	5.000	4.771	95.41	60-140
176 Naphthalene	5.000	4.784	95.67	60-140
63 Isopropyl ether	5.000	5.058	101.16	60-140
72 t-Butylethyl Ether	5.000	5.413	108.27	60-140
93 tert-amyl-Methyl E	5.000	5.382	107.64	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 91 1,2-Dichloroethane	25.000	25.708	102.83	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 114 Toluene-d8	25.000	24.832	99.33	70-130
$ 149 Bromofluorobenzene	25.000	24.590	98.36	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/25sep10.b/d092504.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 25-SEP-2010 10:26
Operator : ccy Inst ID: msdd.i
Smp Info : 50mL #1968-279
Misc Info : 50ppbv(200ppbv)
Comment :
Method : /chem/msdd.i/25sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 15:14 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:20 Cal File: d092408.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane						CAS #: 74-97-5	
4.583	4.583 (1.000)	130	219745	25.0000		80.00- 120.00	100.00
4.583	4.583 (1.000)	128	168102			27.74- 127.74	76.50
4.569	4.583 (1.000)	49	311057			89.66- 189.66	141.55
* 100 1,4-Difluorobenzene						CAS #: 540-36-3	
5.506	5.506 (1.000)	114	921580	25.0000		80.00- 120.00	100.00
5.492	5.506 (1.000)	88	152443			0.00- 66.37	16.54
* 134 Chlorobenzene-d5						CAS #: 3114-55-4	
7.955	7.955 (1.000)	117	1052927	25.0000		80.00- 120.00	100.00
7.941	7.955 (1.000)	82	625282			8.79- 108.79	59.39
$ 91 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.129	5.128 (1.119)	65	376094	25.7075	25.708	80.00- 120.00	100.00
5.129	5.128 (1.119)	67	206859			2.94- 102.94	55.00
$ 114 Toluene-d8						CAS #: 2037-26-5	
6.724	6.737 (1.221)	98	1065109	24.8319	24.832	80.00- 120.00	100.00
6.724	6.737 (1.221)	70	120483			0.00- 61.29	11.31

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

$ 114 Toluene-d8 (continued)
  6.724   6.737 (1.221)   100    714939                    16.69- 116.69    67.12
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                            CAS #: 460-00-4
  8.934   8.948 (1.123)   174    666543 24.5900   24.590  80.00- 120.00   100.00
  8.920   8.934 (1.121)    95    926135                    87.50- 187.50   138.95
  8.934   8.948 (1.123)   176    656313                    46.73- 146.73    98.47
-------------------------------------------------------------------------------
    6 Propylene                                     CAS #: 115-07-1
  1.183   1.169 (0.258)    41    276645 50.4732   50.473  80.00- 120.00   100.00
  1.183   1.169 (0.258)    42    186159                    19.00- 119.00    67.29
  1.169   1.183 (0.255)    39    220351                    30.01- 130.01    79.65
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  1.197   1.197 (0.261)    85   1266848 54.5202   54.520  80.00- 120.00   100.00
  1.197   1.197 (0.261)    87    411403                     0.00-  82.63    32.47
-------------------------------------------------------------------------------
   10 Freon 114                                     CAS #: 76-14-2
  1.295   1.295 (0.283)   135    842704 52.7004   52.700  80.00- 120.00   100.00
  1.295   1.295 (0.283)   137    268675                     0.00-  81.88    31.88
-------------------------------------------------------------------------------
   13 Chloromethane                                 CAS #: 74-87-3
  1.337   1.337 (0.292)    50    284985 58.6663   58.666  80.00- 120.00   100.00
  1.337   1.337 (0.292)    52     83678                     0.00-  81.18    29.36
-------------------------------------------------------------------------------
   14 Butane                                        CAS #: 106-97-8
  1.407   1.407 (0.307)    58     82452 59.0955   59.096  80.00- 120.00   100.00
  1.407   1.407 (0.307)    43    565380                   624.15- 724.15   685.71
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                CAS #: 75-01-4
  1.435   1.435 (0.313)    62    410821 59.1509   59.151  80.00- 120.00   100.00
  1.435   1.421 (0.313)    64    130762                     0.00-  85.43    31.83
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                 CAS #: 106-99-0
  1.449   1.449 (0.316)    54    337799 55.7837   55.784  80.00- 120.00   100.00
  1.449   1.449 (0.316)    39    432698                    71.50- 171.50   128.09
-------------------------------------------------------------------------------
   24 Bromomethane                                  CAS #: 74-83-9
  1.701   1.700 (0.371)    94    384373 51.6624   51.662  80.00- 120.00   100.00
  1.701   1.700 (0.371)    96    358059                    43.18- 143.18    93.15
-------------------------------------------------------------------------------
   25 Chloroethane                                  CAS #: 75-00-3
  1.784   1.784 (0.389)    64    235721 52.0507   52.051  80.00- 120.00   100.00
  1.784   1.784 (0.389)    66     73655                     0.00-  83.84    31.25
  1.784   1.784 (0.389)    49     68287                     0.00-  75.97    28.97
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Isopentane					CAS #: 78-78-4		
1.812	1.812 (0.395)	43	515330	57.5053	57.505	80.00- 120.00	100.00
1.812	1.812 (0.395)	57	370096			23.31- 123.31	71.82
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
1.966	1.966 (0.429)	101	1404219	54.8181	54.818	80.00- 120.00	100.00
1.966	1.966 (0.429)	103	912712			16.00- 116.00	65.00
29 Ethanol					CAS #: 64-17-5		
2.176	2.176 (0.475)	45	153873	49.0938	49.094	80.00- 120.00	100.00
2.176	2.176 (0.475)	43	34237			0.00- 73.09	22.25
2.176	2.176 (0.475)	46	58335			0.00- 90.22	37.91
33 Freon 113					CAS #: 76-13-1		
2.428	2.428 (0.530)	151	686729	47.8529	47.853	80.00- 120.00	100.00
2.428	2.428 (0.530)	153	433602			14.08- 114.08	63.14
2.428	2.428 (0.530)	101	860521			76.51- 176.51	125.31
34 1,1-Dichloroethene					CAS #: 75-35-4		
2.442	2.442 (0.533)	98	252143	46.9737	46.974	80.00- 120.00	100.00
2.442	2.442 (0.533)	96	395977			112.09- 212.09	157.04
2.442	2.442 (0.533)	61	733436			244.07- 344.07	290.88
38 Acetone					CAS #: 67-64-1		
2.554	2.554 (0.557)	58	192251	46.4526	46.453	80.00- 120.00	100.00
2.554	2.554 (0.557)	43	665819			289.34- 389.34	346.33
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	1188940	51.9463	51.946	80.00- 120.00	100.00
41 2-Propanol					CAS #: 67-63-0		
2.694	2.694 (0.588)	45	701967	48.1165	48.116	80.00- 120.00	100.00
2.694	2.694 (0.588)	43	158093			0.00- 73.36	22.52
2.694	2.694 (0.588)	59	28252			0.00- 53.87	4.02
44 3-Chloropropene					CAS #: 107-05-1		
2.848	2.848 (0.621)	76	203735	52.1003	52.100	80.00- 120.00	100.00
2.848	2.848 (0.621)	41	534961			230.86- 330.86	262.58
46 Methylene Chloride					CAS #: 75-09-2		
3.016	3.016 (0.658)	49	484937	46.0666	46.067	80.00- 120.00	100.00
3.016	3.016 (0.658)	84	350624			23.22- 123.22	72.30
3.016	3.016 (0.658)	51	145854			0.00- 83.45	30.08
48 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.156	3.156 (0.689)	59	88119	4.77062	4.771	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
48 tert-Butyl-Alcohol (continued)							
3.156	3.156 (0.689)	41	21261			0.00- 87.45	24.13
3.156	3.156 (0.689)	57	9421			0.00- 77.87	10.69
50 MTBE					CAS #: 1634-04-4		
3.254	3.253 (0.710)	73	1256899	50.0920	50.092	80.00- 120.00	100.00
3.254	3.253 (0.710)	57	281428			0.00- 74.20	22.39
3.254	3.253 (0.710)	41	302013			0.00- 73.88	24.03
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.268	3.268 (0.713)	98	293214	51.8111	51.811	80.00- 120.00	100.00
3.268	3.268 (0.713)	61	740869			199.14- 299.14	252.67
3.268	3.268 (0.713)	96	464448			115.75- 215.75	158.40
58 Hexane					CAS #: 110-54-3		
3.491	3.491 (0.762)	57	756815	48.7679	48.768	80.00- 120.00	100.00
3.491	3.491 (0.762)	43	460620			8.36- 108.36	60.86
3.491	3.491 (0.762)	86	121105			0.00- 64.99	16.00
63 Isopropyl ether					CAS #: 108-20-3		
3.771	3.771 (0.823)	45	195412	5.05814	5.058	80.00- 120.00	100.00
3.771	3.771 (0.823)	87	59337			0.00- 80.45	30.37
3.771	3.771 (0.823)	59	25941			0.00- 62.10	13.28
64 1,1-Dichloroethane					CAS #: 75-34-3		
3.757	3.757 (0.820)	63	921857	49.1124	49.112	80.00- 120.00	100.00
3.757	3.757 (0.820)	65	290125			0.00- 81.76	31.47
65 Vinyl Acetate					CAS #: 108-05-4		
3.813	3.813 (0.832)	86	107345	49.8168	49.817	80.00- 120.00	100.00
3.813	3.813 (0.832)	43	1269103			1105.35-1205.35	1182.27
72 t-Butylethyl Ether					CAS #: 637-92-3		
4.135	4.135 (0.902)	59	184975	5.41341	5.413	80.00- 120.00	100.00
4.135	4.149 (0.902)	87	72013			0.00- 88.67	38.93
4.135	4.135 (0.902)	41	36911			0.00- 69.90	19.95
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.345	4.359 (0.948)	98	328997	50.4388	50.439	80.00- 120.00	100.00
4.345	4.359 (0.948)	96	509153			105.73- 205.73	154.76
4.345	4.359 (0.948)	61	755645			177.29- 277.29	229.68
75 2-Butanone					CAS #: 78-93-3		
4.387	4.387 (0.957)	72	231644	51.7245	51.724	80.00- 120.00	100.00
4.387	4.387 (0.957)	43	1052784			398.18- 498.18	454.48
4.387	4.387 (0.957)	57	85398			0.00- 94.52	36.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
78 Tetrahydrofuran					CAS #: 109-99-9		
4.583	4.583 (1.000)	42	584963	50.2494	50.249	80.00- 120.00	100.00
4.583	4.597 (1.000)	71	214760			0.00- 86.23	36.71
4.583	4.597 (1.000)	72	229672			0.00- 90.19	39.26
80 Chloroform					CAS #: 67-66-3		
4.653	4.667 (1.015)	83	1170497	50.8503	50.850	80.00- 120.00	100.00
4.653	4.667 (1.015)	85	741640			11.87- 111.87	63.36
83 Cyclohexane					CAS #: 110-82-7		
4.751	4.765 (1.037)	84	699042	50.0465	50.046	80.00- 120.00	100.00
4.751	4.765 (1.037)	56	863782			73.57- 173.57	123.57
4.751	4.765 (1.037)	41	467882			18.19- 118.19	66.93
85 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.779	4.779 (1.043)	97	1264457	52.4022	52.402	80.00- 120.00	100.00
4.779	4.779 (1.043)	99	811437			14.20- 114.20	64.17
86 Carbon Tetrachloride					CAS #: 56-23-5		
4.891	4.905 (1.067)	119	1168131	55.8098	55.810	80.00- 120.00	100.00
4.891	4.905 (1.067)	117	1210408			52.41- 152.41	103.62
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.115	5.128 (1.116)	57	2822522	51.4067	51.407	80.00- 120.00	100.00
5.115	5.128 (1.116)	56	895057			0.00- 82.22	31.71
5.115	5.128 (1.116)	41	723627			0.00- 75.30	25.64
90 Benzene					CAS #: 71-43-2		
5.101	5.114 (0.926)	78	1556082	49.1528	49.153	80.00- 120.00	100.00
5.101	5.114 (0.926)	77	364536			0.00- 73.42	23.43
93 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.198	5.212 (1.134)	73	170974	5.38188	5.382	80.00- 120.00	100.00
5.198	5.212 (1.134)	87	42522			0.00- 75.15	24.87
5.198	5.212 (1.134)	55	62035			0.00- 87.94	36.28
94 1,2-Dichloroethane					CAS #: 107-06-2		
5.198	5.198 (0.944)	62	900422	51.3128	51.313	80.00- 120.00	100.00
5.198	5.198 (0.944)	64	296052			0.00- 83.91	32.88
95 Heptane					CAS #: 142-82-5		
5.296	5.296 (0.962)	71	582316	51.2299	51.230	80.00- 120.00	100.00
5.296	5.296 (0.962)	43	1114859			140.26- 240.26	191.45
5.296	5.296 (0.962)	57	633291			59.88- 159.88	108.75
104 Trichloroethene					CAS #: 79-01-6		
5.688	5.702 (1.033)	95	809859	52.2704	52.270	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
104 Trichloroethene (continued)							
5.688	5.702 (1.033)	130	789732			49.11- 149.11	97.51
5.688	5.702 (1.033)	97	517840			15.29- 115.29	63.94
105 Methyl Cyclohexane					CAS #: 108-87-2		
5.800	5.800 (1.266)	83	1057956	50.6481	50.648	80.00- 120.00	100.00
5.800	5.800 (1.266)	98	519334			0.00- 98.14	49.09
5.800	5.800 (1.266)	55	961188			38.79- 138.79	90.85
106 1,2-Dichloropropane					CAS #: 78-87-5		
5.926	5.926 (1.076)	63	686833	51.1910	51.191	80.00- 120.00	100.00
5.926	5.926 (1.076)	62	487676			20.55- 120.55	71.00
5.926	5.926 (1.076)	41	414922			11.27- 111.27	60.41
107 1,4-Dioxane					CAS #: 123-91-1		
6.024	6.038 (1.094)	88	410991	51.4904	51.490	80.00- 120.00	100.00
6.024	6.038 (1.094)	58	315699			26.67- 126.67	76.81
6.024	6.038 (1.094)	57	106005			0.00- 76.79	25.79
108 Bromodichloromethane					CAS #: 75-27-4		
6.164	6.164 (1.119)	83	1444193	53.5780	53.578	80.00- 120.00	100.00
6.164	6.164 (1.119)	85	908730			12.41- 112.41	62.92
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.542	6.556 (1.188)	75	1078248	52.9675	52.967	80.00- 120.00	100.00
6.542	6.556 (1.188)	77	340450			0.00- 82.98	31.57
6.542	6.556 (1.188)	39	553363			1.60- 101.60	51.32
112 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.668	6.681 (1.211)	58	639039	53.8417	53.842	80.00- 120.00	100.00
6.668	6.681 (1.211)	43	1614154			205.82- 305.82	252.59
6.668	6.681 (1.211)	85	251274			0.00- 91.74	39.32
115 Toluene					CAS #: 108-88-3		
6.780	6.793 (1.231)	91	2183228	48.1830	48.183	80.00- 120.00	100.00
6.780	6.793 (1.231)	92	1315501			10.33- 110.33	60.25
118 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.031	7.045 (0.884)	75	1224524	54.2214	54.221	80.00- 120.00	100.00
7.031	7.045 (0.884)	77	388519			0.00- 84.69	31.73
7.031	7.045 (0.884)	39	574743			0.00- 96.57	46.94
120 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.185	7.185 (0.903)	97	845410	51.9884	51.988	80.00- 120.00	100.00
7.185	7.185 (0.903)	99	516238			11.31- 111.31	61.06
7.171	7.185 (0.902)	83	727265			37.82- 137.82	86.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.213	7.227 (0.907)	166	1127876	51.2337	51.234	80.00- 120.00	100.00
7.213	7.227 (0.907)	129	863343			24.82- 124.82	76.55
7.213	7.227 (0.907)	131	835769			24.46- 124.46	74.10
125 2-Hexanone					CAS #: 591-78-6		
7.367	7.381 (0.926)	58	945739	52.3134	52.313	80.00- 120.00	100.00
7.367	7.381 (0.926)	43	1795851			131.13- 231.13	189.89
7.367	7.381 (0.926)	100	188665			0.00- 69.98	19.95
128 Dibromochloromethane					CAS #: 124-48-1		
7.479	7.493 (0.940)	129	1591477	55.3406	55.341	80.00- 120.00	100.00
7.479	7.493 (0.940)	127	1227352			26.70- 126.70	77.12
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.591	7.591 (0.954)	107	1436060	54.7055	54.705	80.00- 120.00	100.00
7.591	7.591 (0.954)	109	1354733			45.76- 145.76	94.34
135 Chlorobenzene					CAS #: 108-90-7		
7.969	7.983 (1.002)	112	2126725	46.8333	46.833	80.00- 120.00	100.00
7.969	7.983 (1.002)	114	686350			0.00- 82.34	32.27
7.969	7.983 (1.002)	77	1279577			17.83- 117.83	60.17
137 Ethyl Benzene					CAS #: 100-41-4		
8.039	8.039 (1.011)	106	1105331	52.8354	52.835	80.00- 120.00	100.00
8.039	8.039 (1.011)	91	3560336			271.23- 371.23	322.11
140 m,p-Xylene					CAS #: 108-38-3		
8.137	8.151 (1.023)	106	1404413	51.5601	51.560	80.00- 120.00	100.00
8.137	8.151 (1.023)	91	2847273			145.19- 245.19	202.74
141 o-Xylene					CAS #: 95-47-6		
8.459	8.472 (1.063)	106	1341948	51.7058	51.706	80.00- 120.00	100.00
8.459	8.472 (1.063)	91	2896230			163.74- 263.74	215.82
142 Styrene					CAS #: 100-42-5		
8.487	8.500 (1.067)	104	2200651	53.0316	53.032	80.00- 120.00	100.00
8.487	8.500 (1.067)	78	1171853			3.22- 103.22	53.25
145 Bromoform					CAS #: 75-25-2		
8.668	8.682 (1.090)	173	1569059	56.3175	56.317	80.00- 120.00	100.00
8.668	8.682 (1.090)	171	810223			1.08- 101.08	51.64
147 Cumene					CAS #: 98-82-8		
8.752	8.766 (1.100)	105	4048078	51.9258	51.926	80.00- 120.00	100.00
8.752	8.766 (1.100)	120	1053789			0.00- 76.35	26.03

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

  147 Cumene (continued)
  8.752   8.766 (1.100)    51    415683                     0.00-  60.48    10.27
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.060   9.074 (1.139)    83   2180628 52.5453   52.545  80.00- 120.00   100.00
  9.060   9.074 (1.139)    85   1371599                   11.85- 111.85    62.90
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.144)    91   5047859 51.7188   51.719  80.00- 120.00   100.00
  9.102   9.116 (1.144)   120   1159346                    0.00-  73.32    22.97
  9.102   9.116 (1.144)   105    197321                    0.00-  54.41     3.91
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.186   9.200 (1.155)   120   1283819 51.0823   51.082  80.00- 120.00   100.00
  9.186   9.200 (1.155)   105   4429228                  285.66- 385.66   345.00
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.242   9.256 (1.162)   120   1832952 51.7141   51.714  80.00- 120.00   100.00
  9.242   9.256 (1.162)   105   3851764                  161.17- 261.17   210.14
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.564   9.578 (1.202)   120   1685470 52.7416   52.742  80.00- 120.00   100.00
  9.564   9.578 (1.202)   105   3703629                  168.63- 268.63   219.74
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.830   9.844 (1.236)   146   2504527 52.2240   52.224  80.00- 120.00   100.00
  9.830   9.844 (1.236)   148   1585593                   14.02- 114.02    63.31
  9.816   9.830 (1.234)   111   1048889                    0.00-  92.07    41.88
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.900   9.914 (1.244)   146   2522399 51.7419   51.742  80.00- 120.00   100.00
  9.900   9.914 (1.244)   148   1594253                   13.17- 113.17    63.20
  9.900   9.914 (1.244)   111   1036236                    0.00-  90.44    41.08
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.026  10.040 (1.260)    91   3274062 53.3830   53.383  80.00- 120.00   100.00
 10.026  10.040 (1.260)   126    676354                    0.00-  70.60    20.66
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.222  10.235 (1.285)   146   2437568 53.3835   53.383  80.00- 120.00   100.00
 10.222  10.235 (1.285)   148   1540155                   12.90- 112.90    63.18
 10.222  10.235 (1.285)   111   1049722                    0.00-  93.42    43.06
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.537  11.551 (1.450)   180   2161402 52.5275   52.527  80.00- 120.00   100.00
 11.537  11.551 (1.450)   182   2069114                   45.06- 145.06    95.73
-------------------------------------------------------------------------------
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene						CAS #: 87-68-3		
11.635	11.649	(1.463)	225	1666475	55.3477	55.348	80.00- 120.00	100.00
11.635	11.649	(1.463)	223	1035707			44.84- 144.84	62.15
176 Naphthalene						CAS #: 91-20-3		
11.761	11.775	(1.478)	128	489243	4.78374	4.784	80.00- 120.00	100.00
11.761	11.775	(1.478)	127	60952			0.00- 62.92	12.46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092504.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ccy
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 25-SEP-2010
Calibration Time: 09:52
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

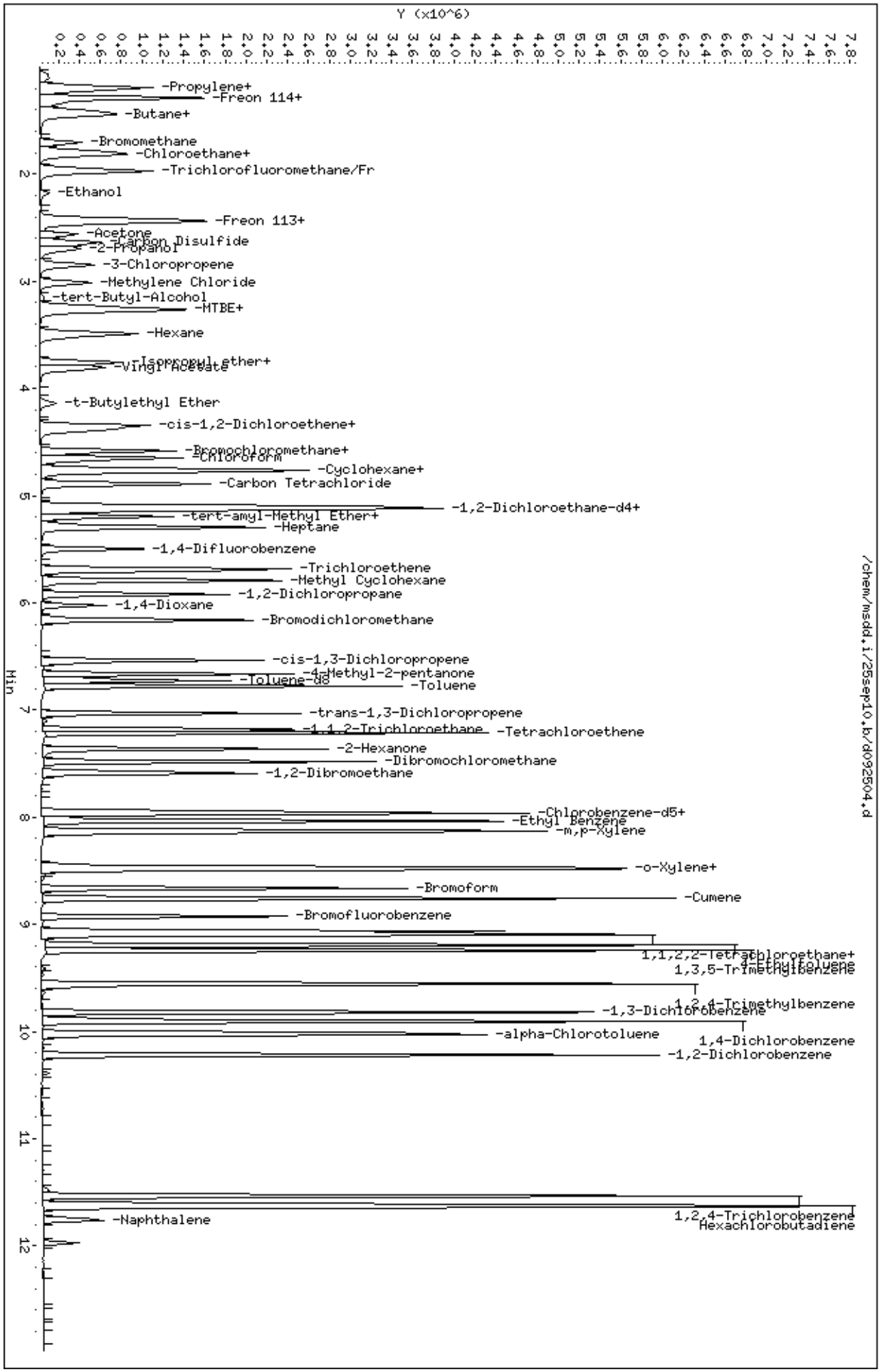
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	211394	126836	295952	219745	3.95
100 1,4-Difluorobenze	892044	535226	1248862	921580	3.31
134 Chlorobenzene-d5	1020742	612445	1429039	1052927	3.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.95	7.62	8.28	7.95	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.

Data File: /chem/msdd.i/25sep10.b/d092504.d
Date : 25-SEP-2010 10:26
Client ID: LCS
Sample Info: 50mL #1968-279
Column phase: RTx-624

Instrument: msdd.i
Operator: ccy
Column diameter: 0.53



Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

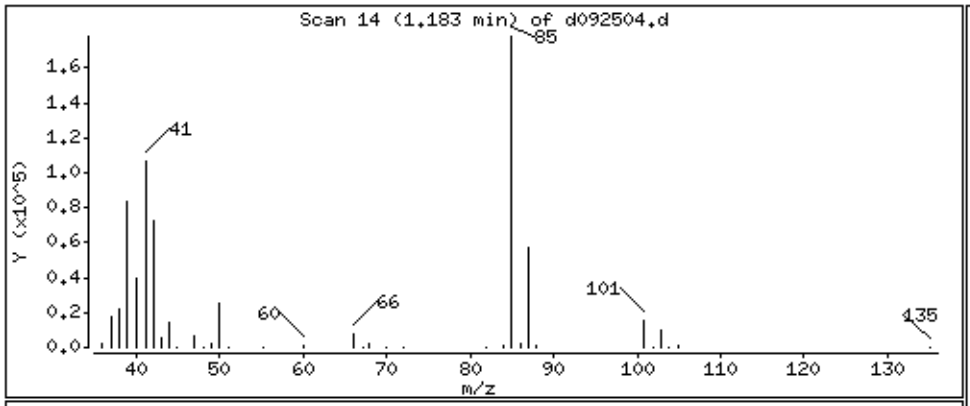
Operator: ccy

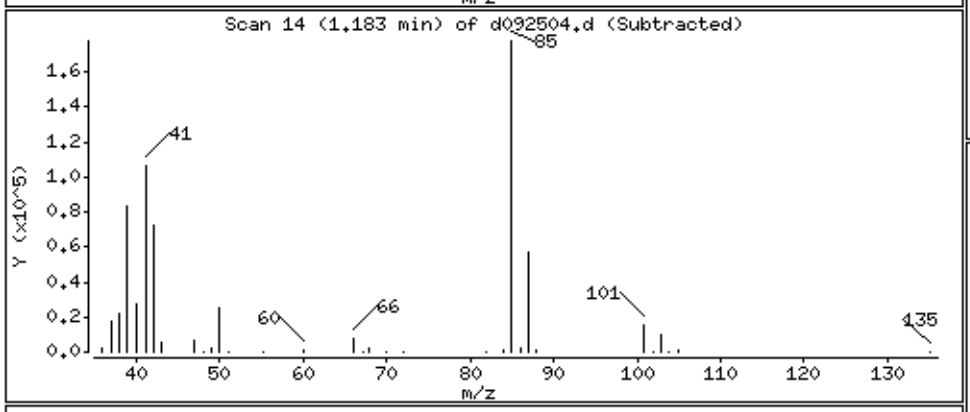
Column phase: RTx-624

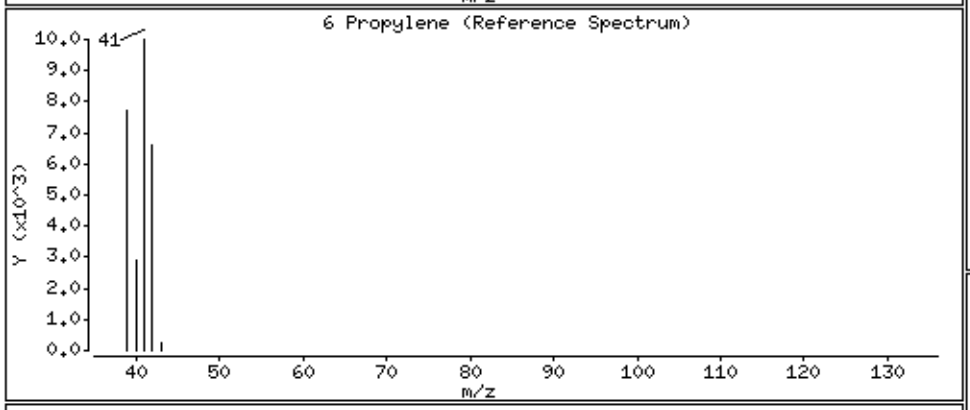
Column diameter: 0.53

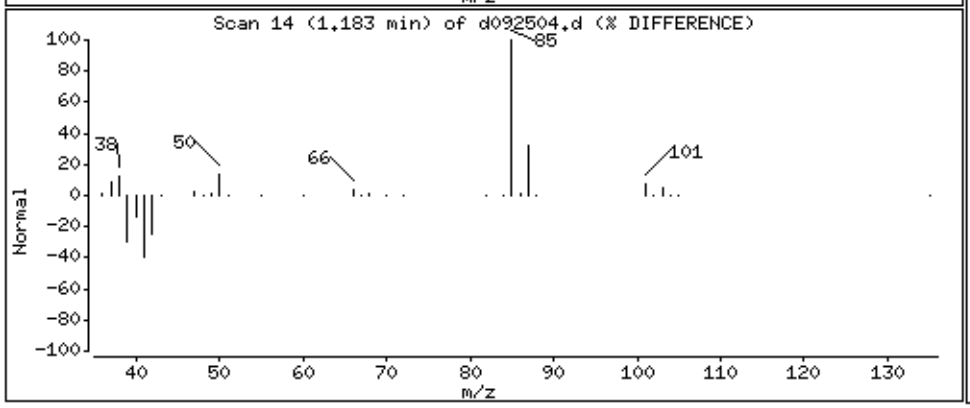
6 Propylene

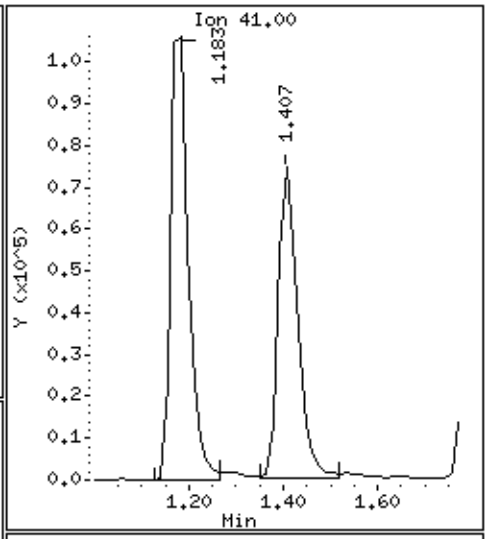
Concentration: 50.473 PPBV

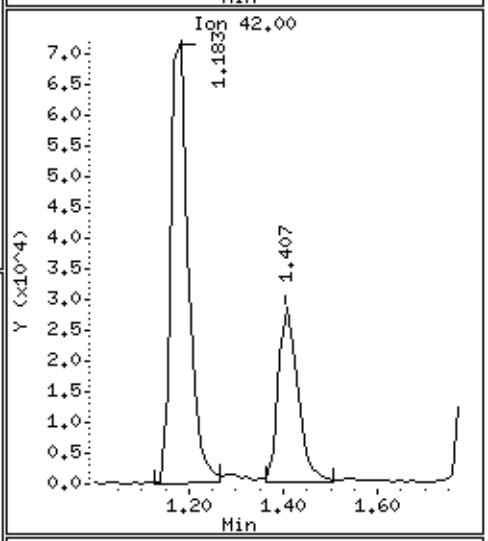


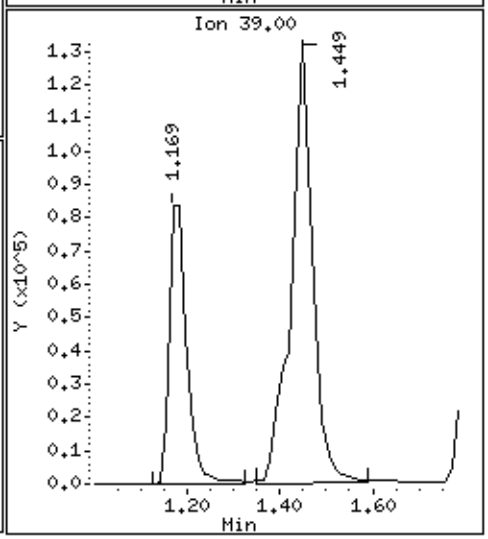












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

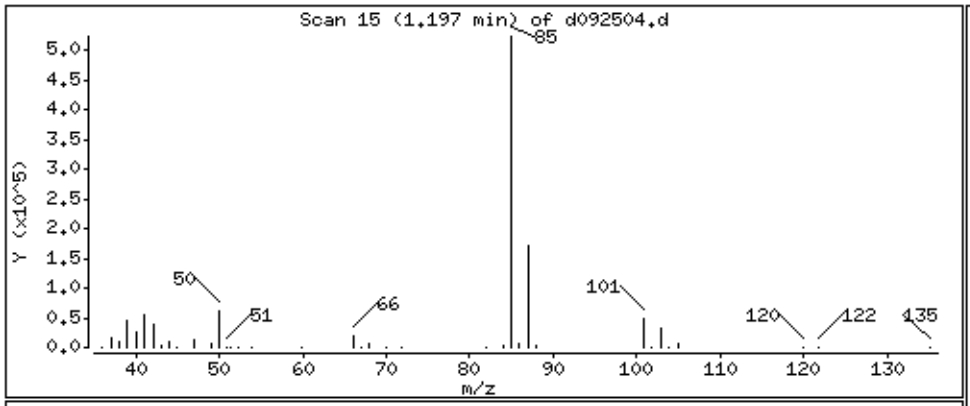
Operator: ccy

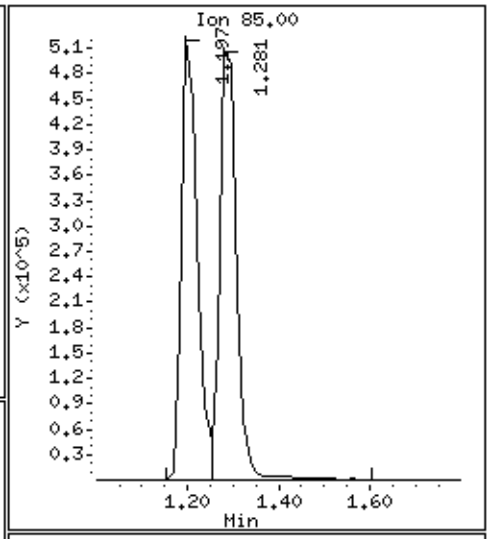
Column phase: RTx-624

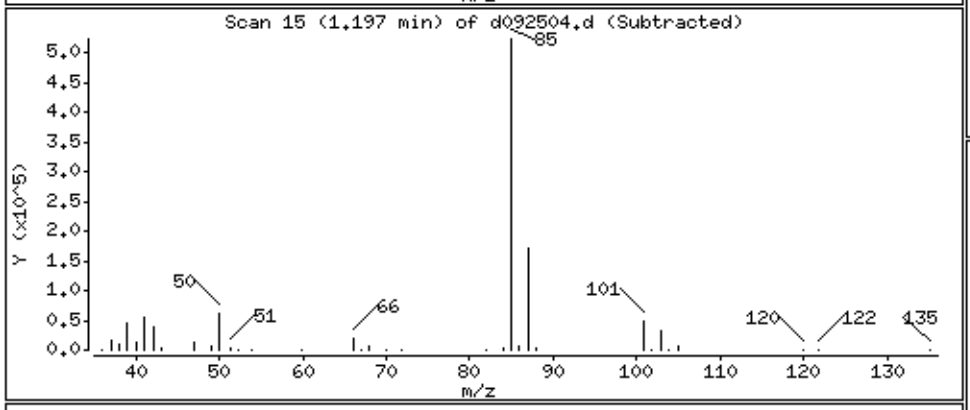
Column diameter: 0.53

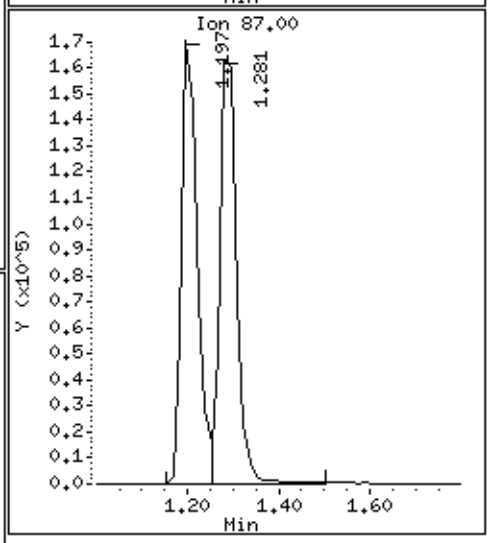
7 Dichlorodifluoromethane/Fr12

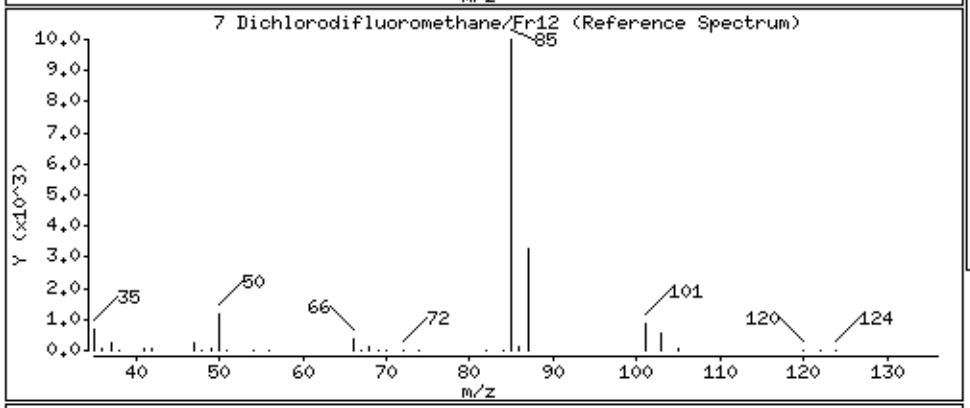
Concentration: 54.520 PPBV

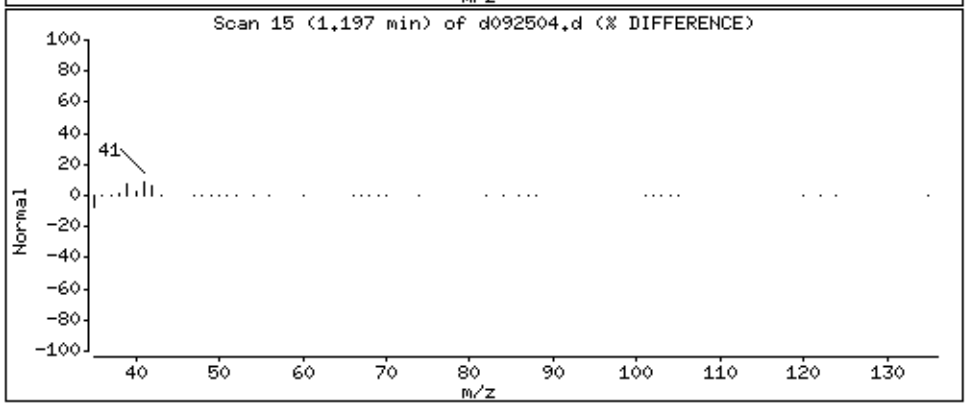












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

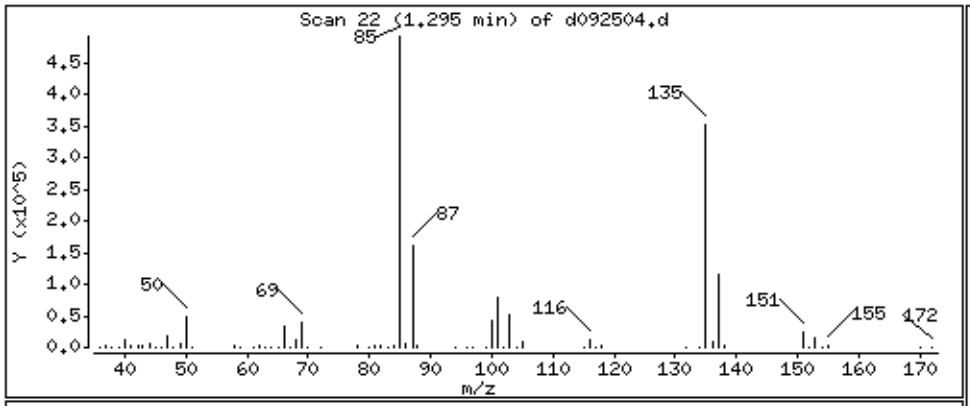
Operator: ccy

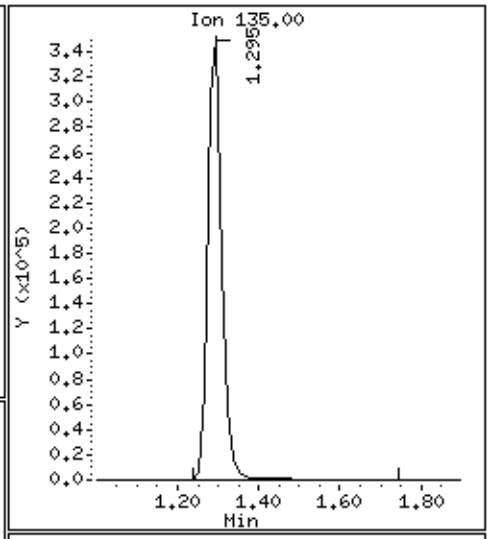
Column phase: RTx-624

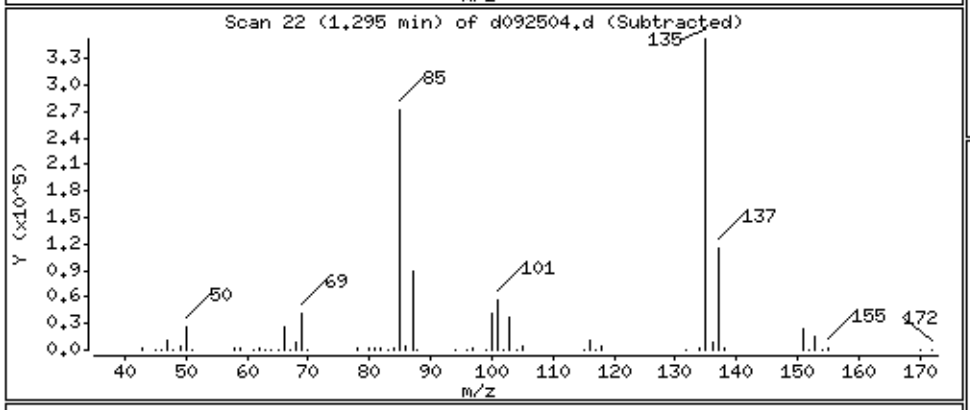
Column diameter: 0.53

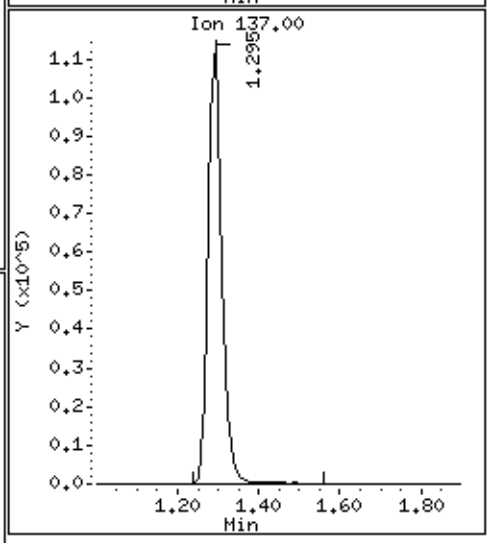
10 Freon 114

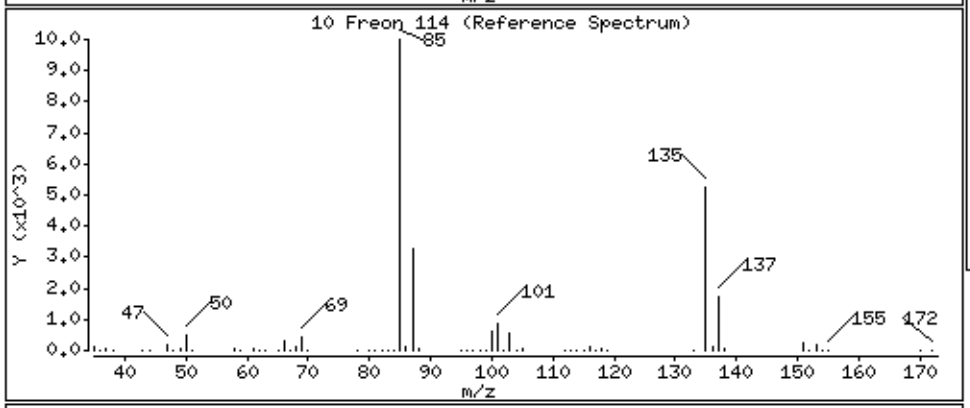
Concentration: 52.700 PPBV

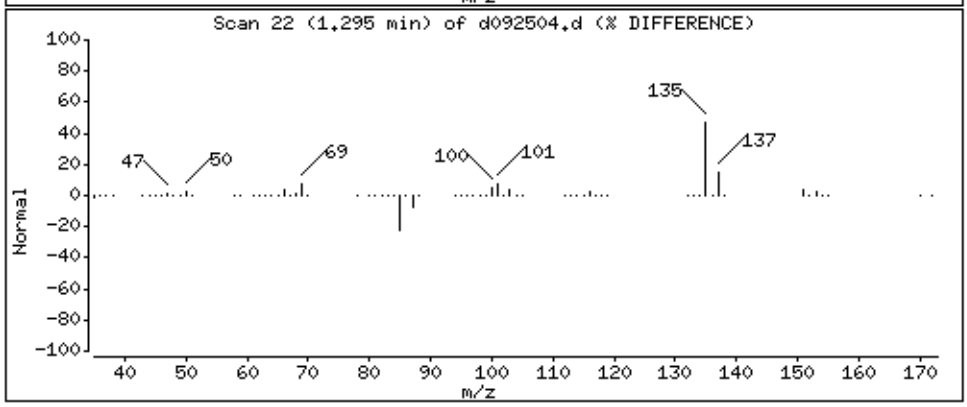












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Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

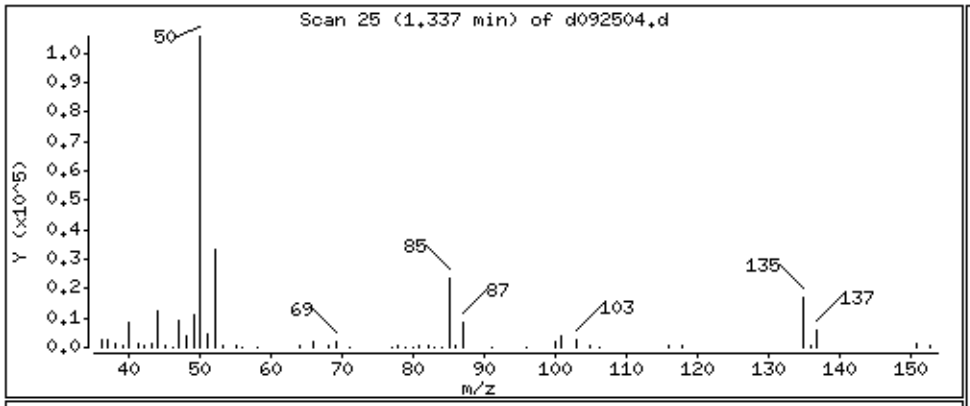
Operator: ccy

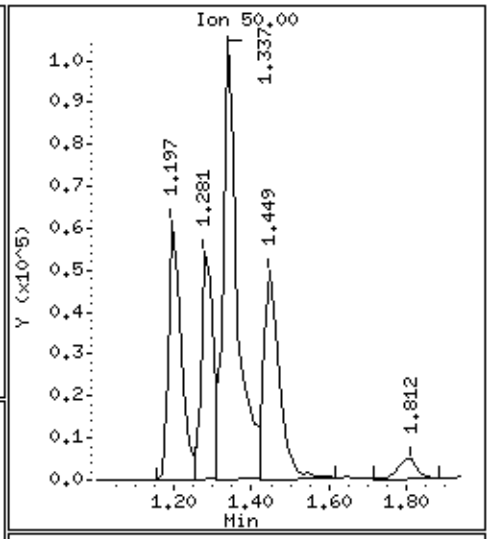
Column phase: RTx-624

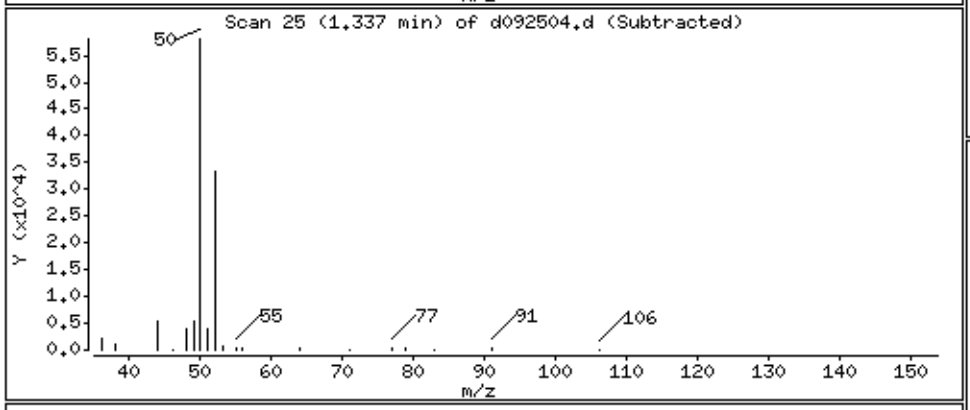
Column diameter: 0.53

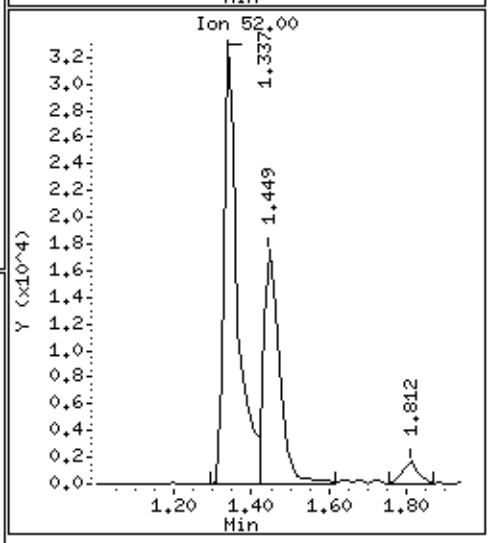
13 Chloromethane

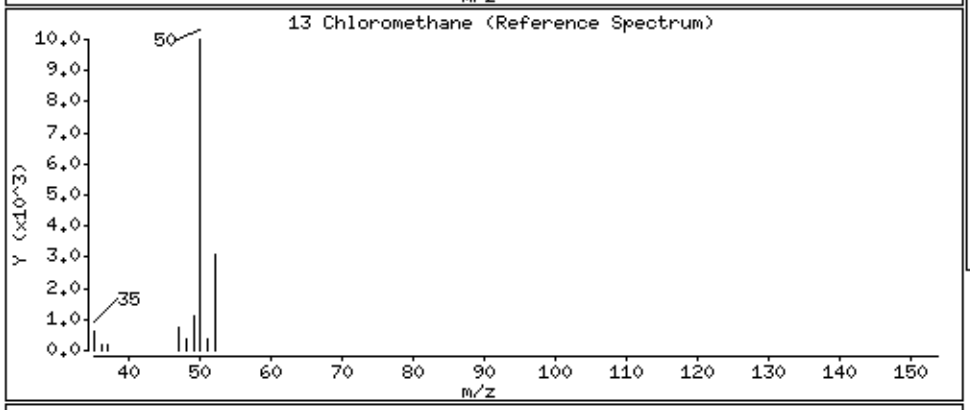
Concentration: 58.666 PPBV

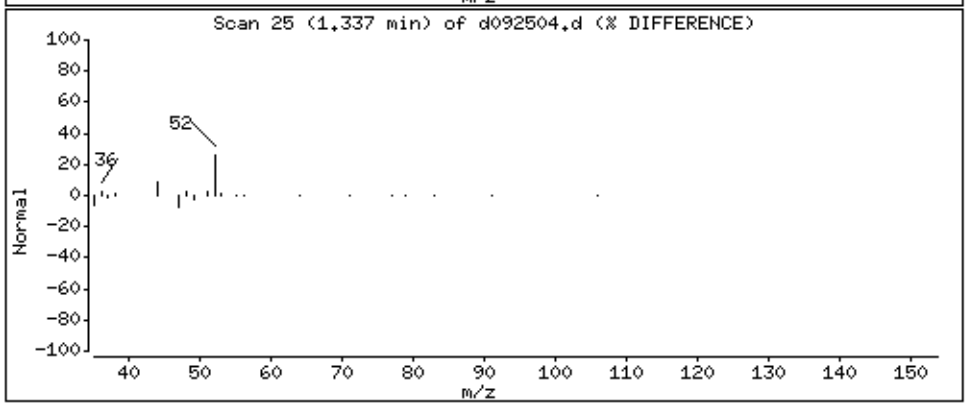












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Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

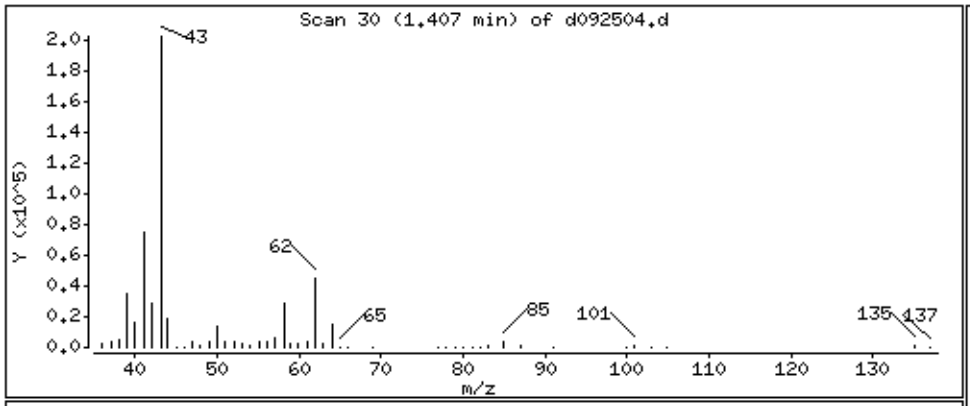
Operator: ccy

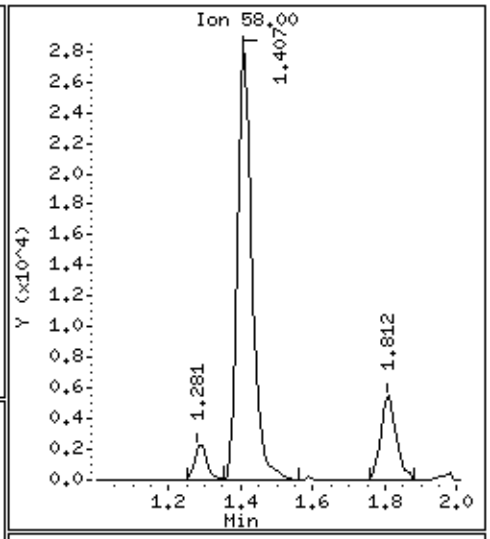
Column phase: RTx-624

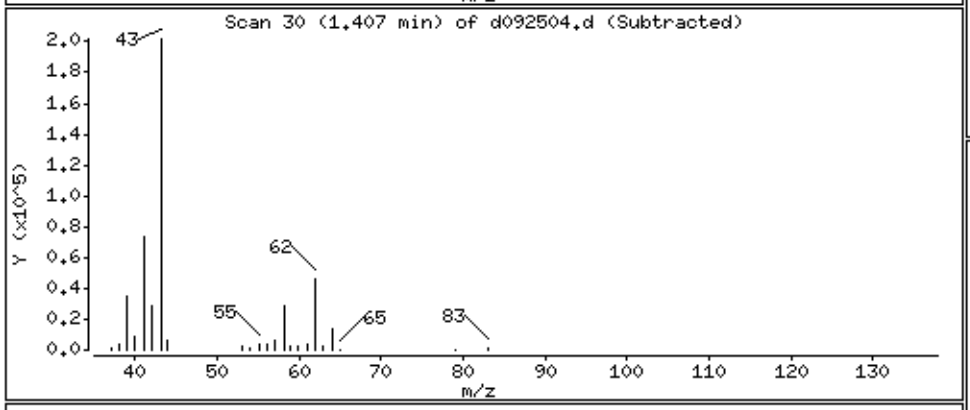
Column diameter: 0.53

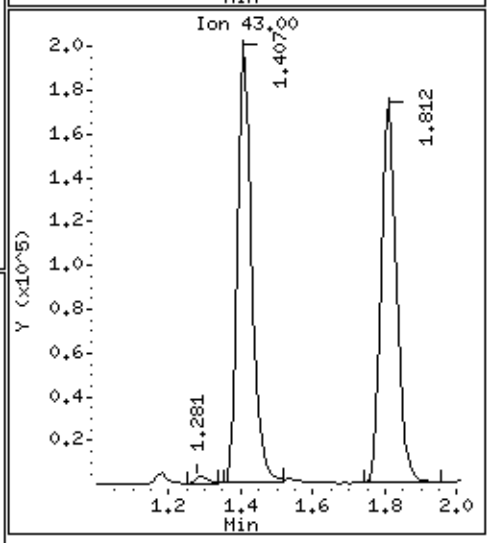
14 Butane

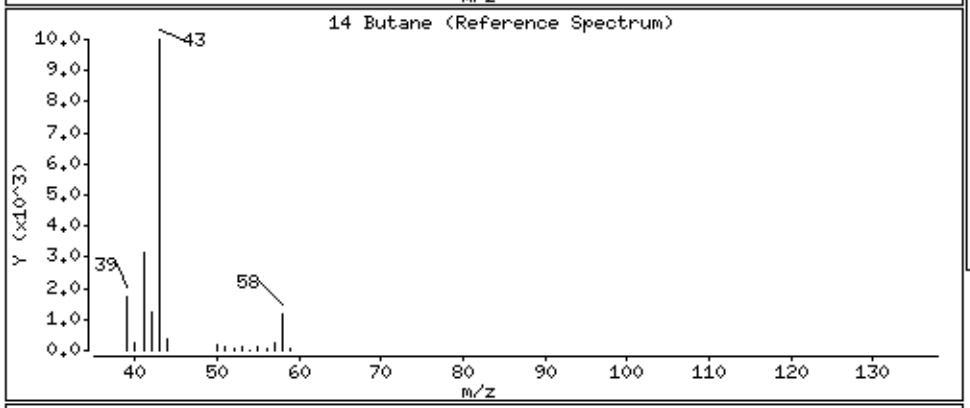
Concentration: 59.096 PPBV

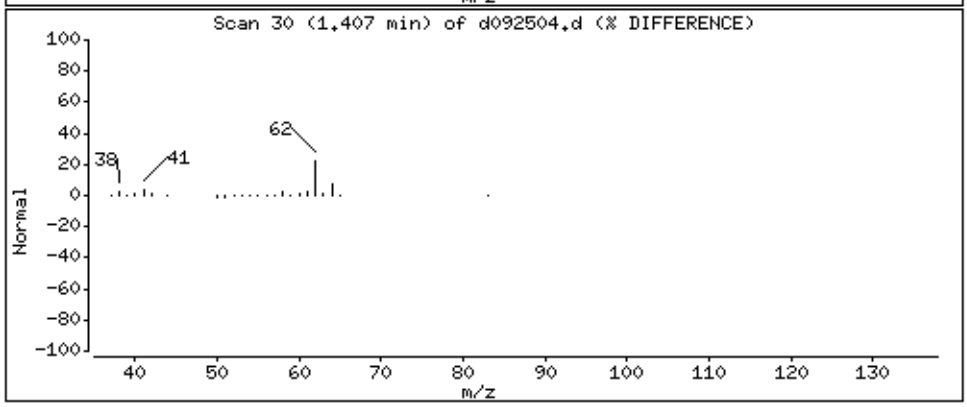












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

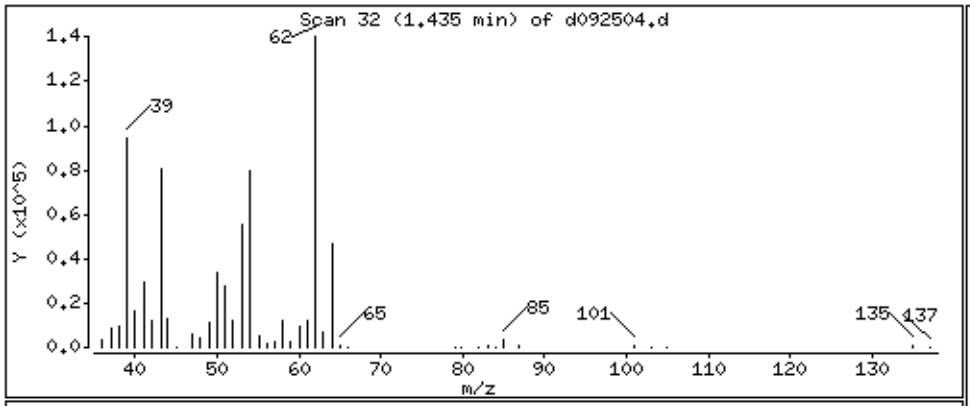
Operator: ccy

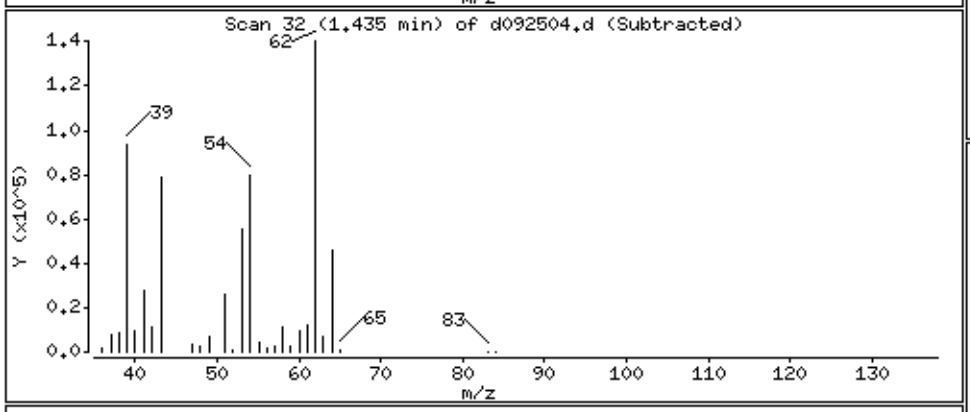
Column phase: RTx-624

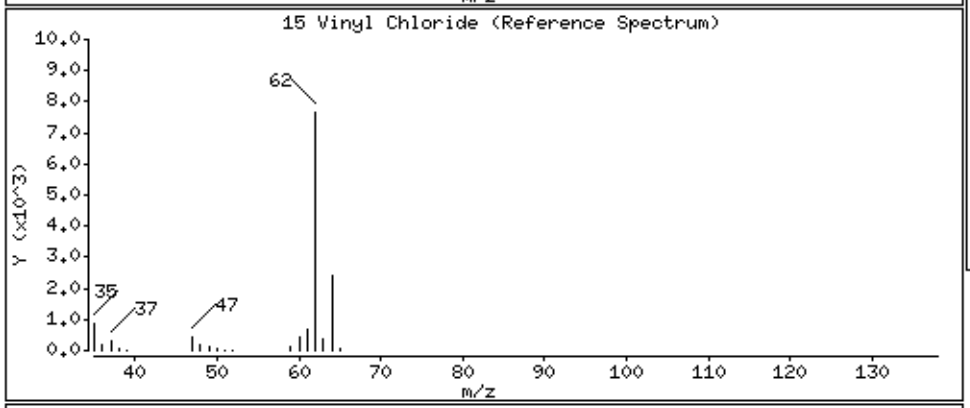
Column diameter: 0.53

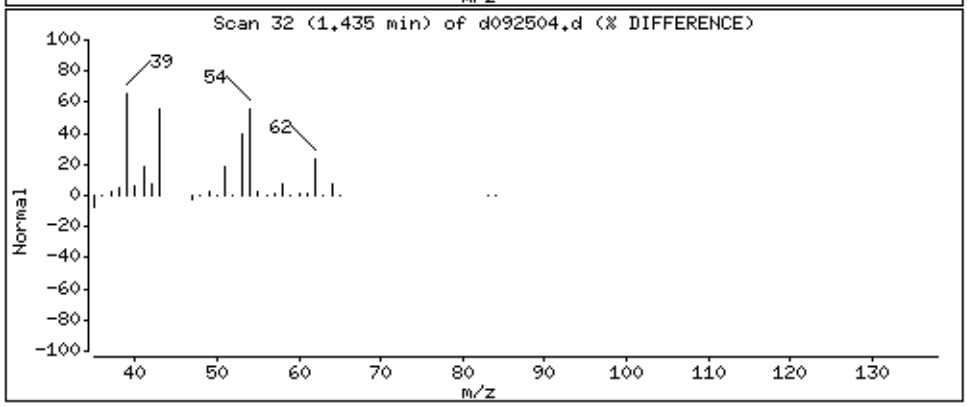
15 Vinyl Chloride

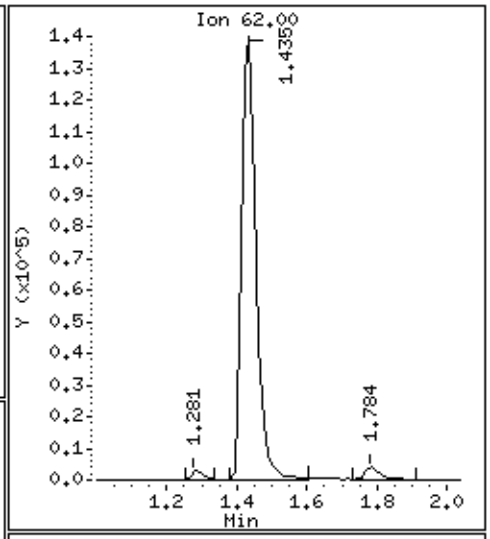
Concentration: 59.151 PPBV

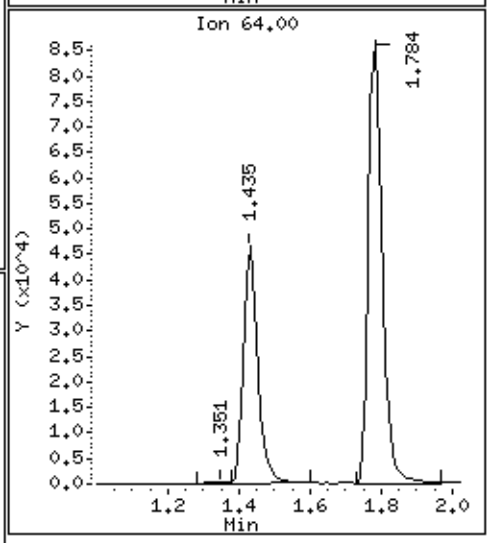












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

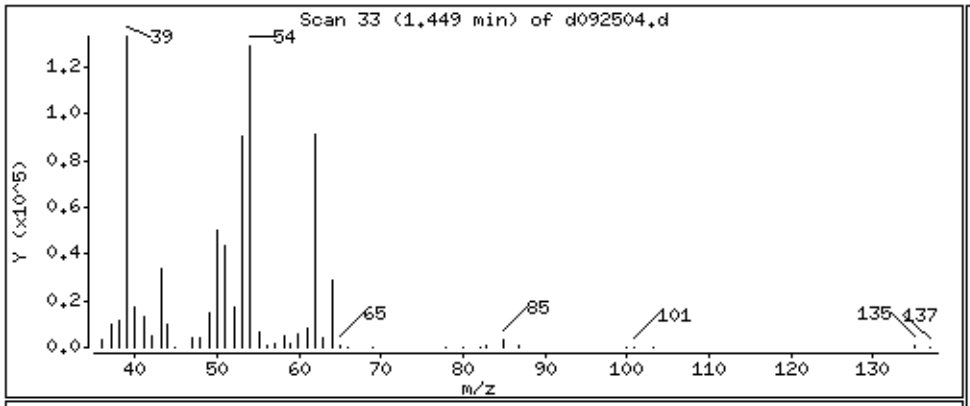
Operator: ccy

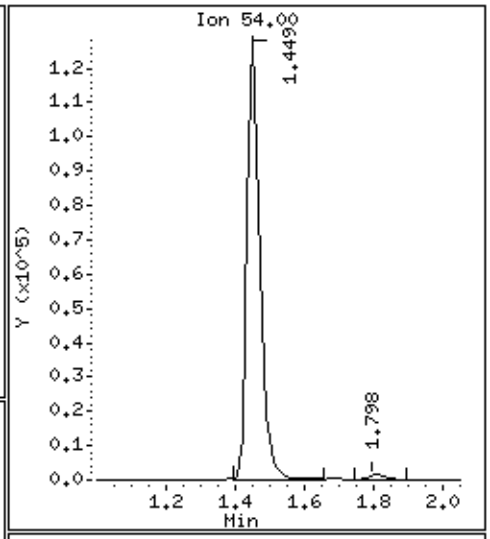
Column phase: RTx-624

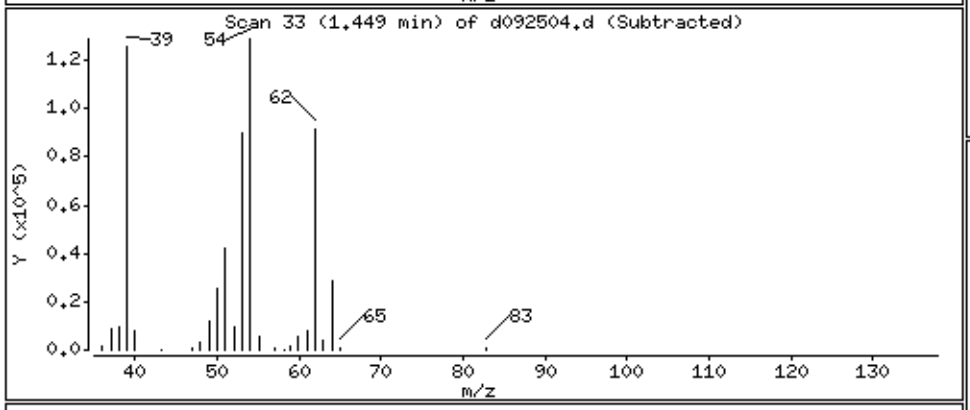
Column diameter: 0.53

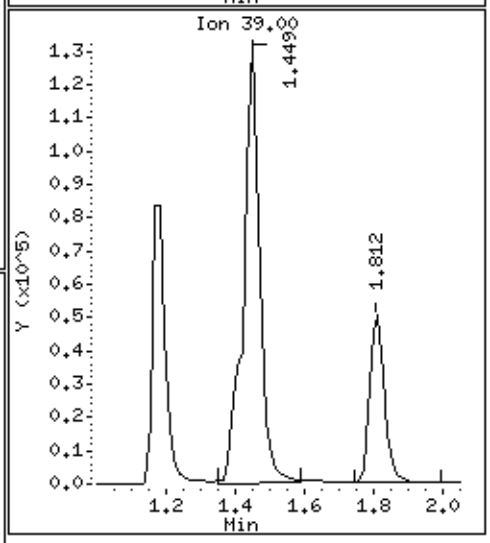
18 1,3-Butadiene

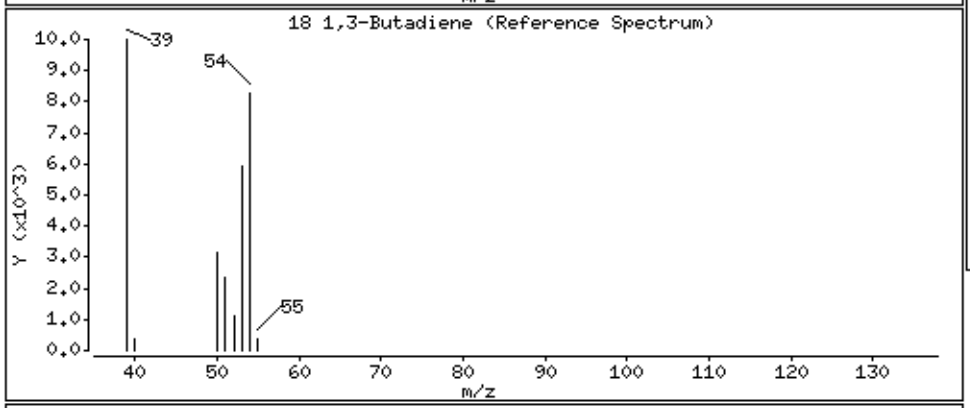
Concentration: 55.784 PPBV

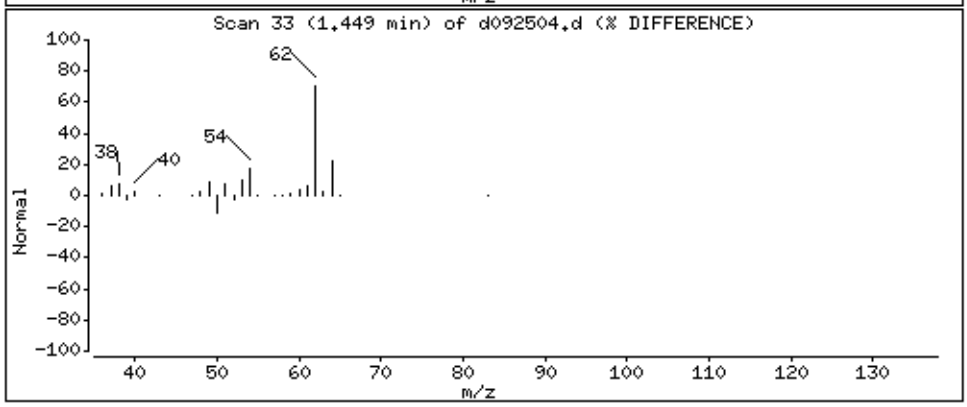












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

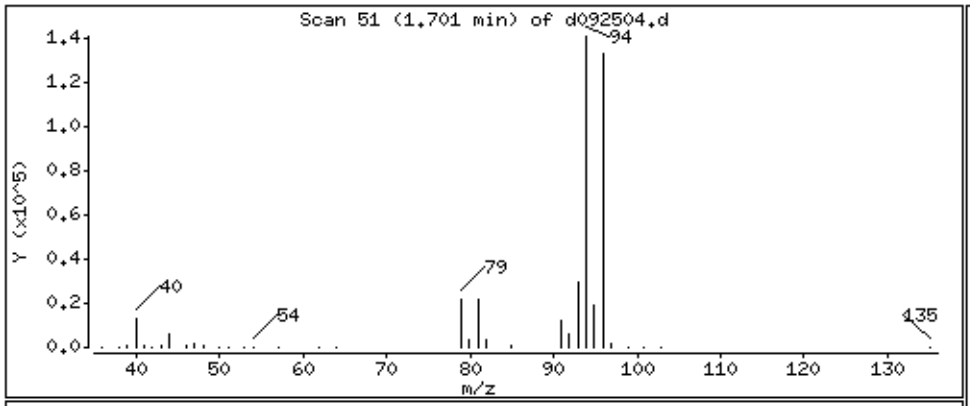
Operator: ccy

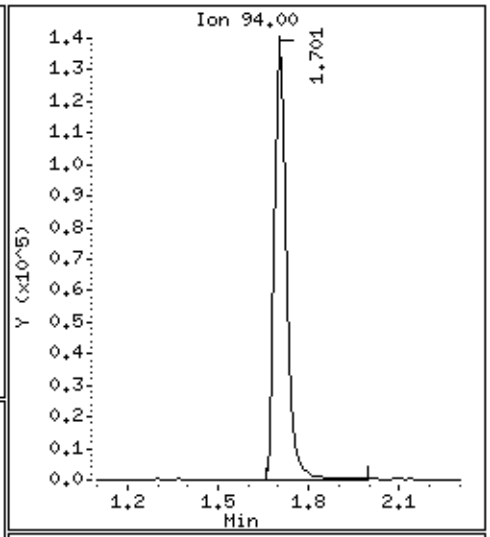
Column phase: RTx-624

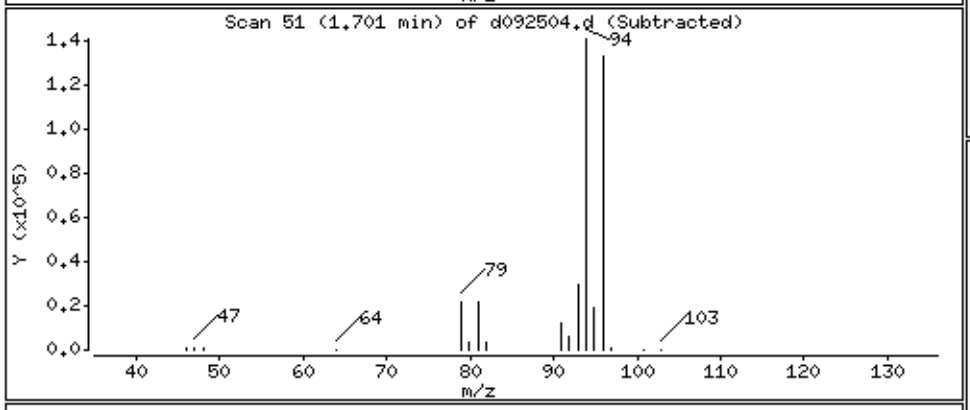
Column diameter: 0.53

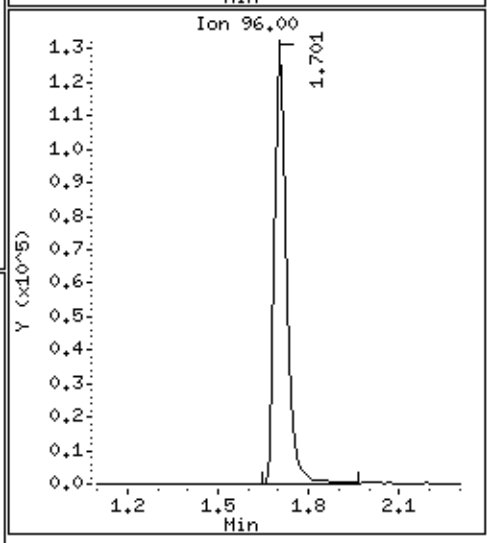
24 Bromomethane

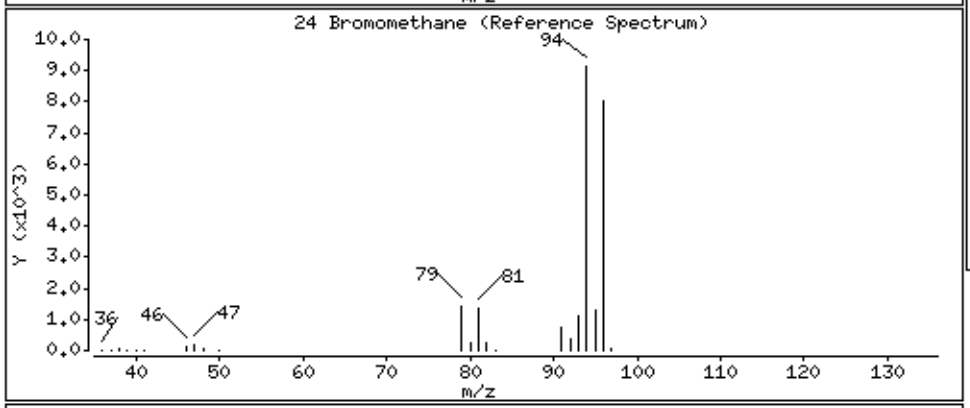
Concentration: 51.662 PPBV

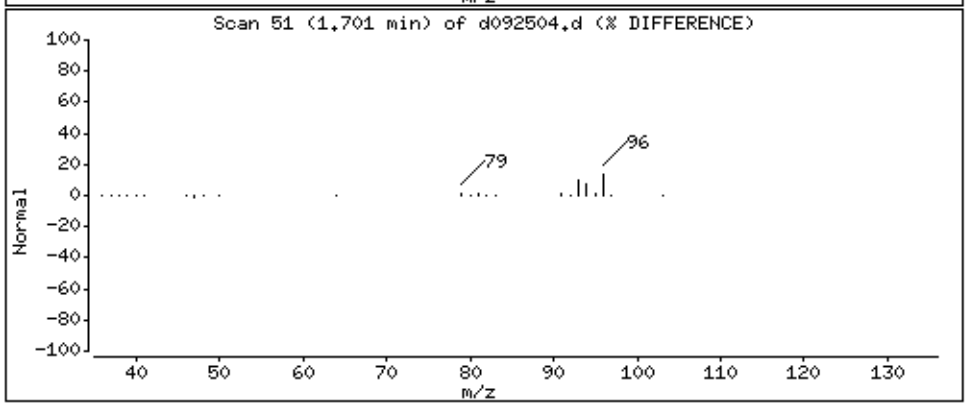












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

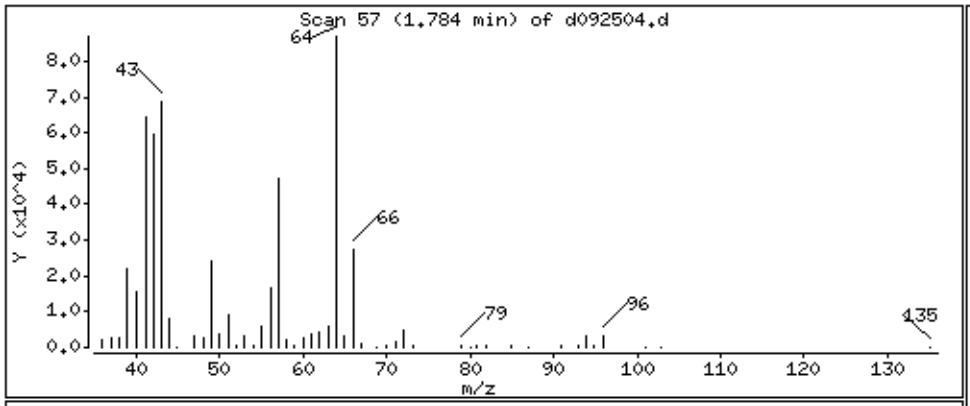
Operator: ccy

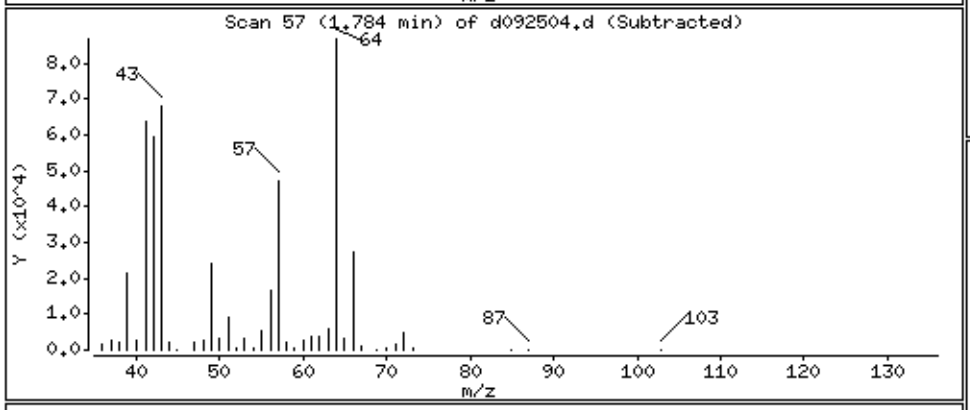
Column phase: RTx-624

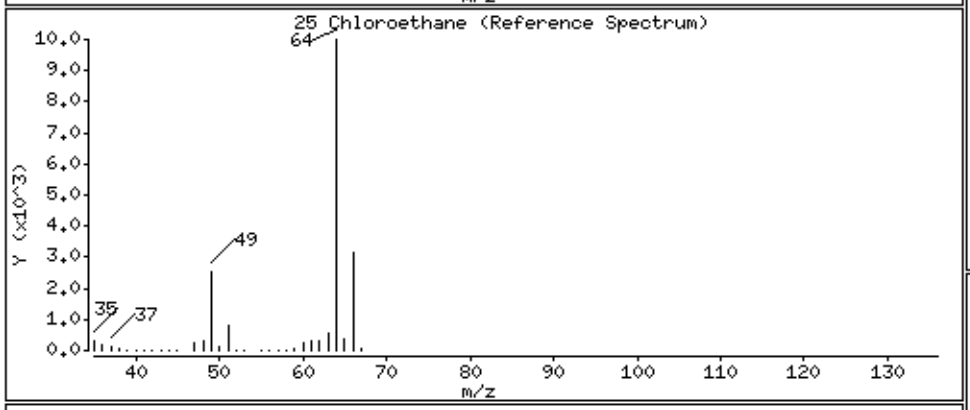
Column diameter: 0.53

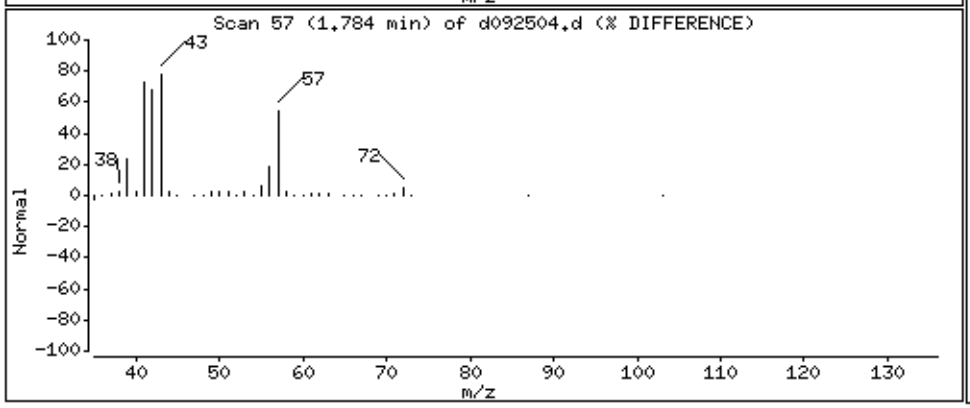
25 Chloroethane

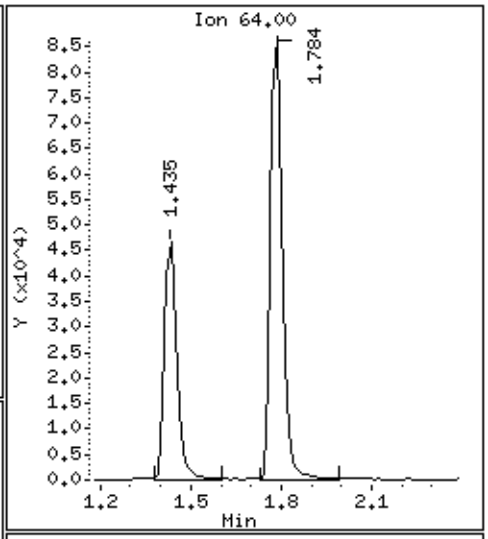
Concentration: 52.051 PPBV

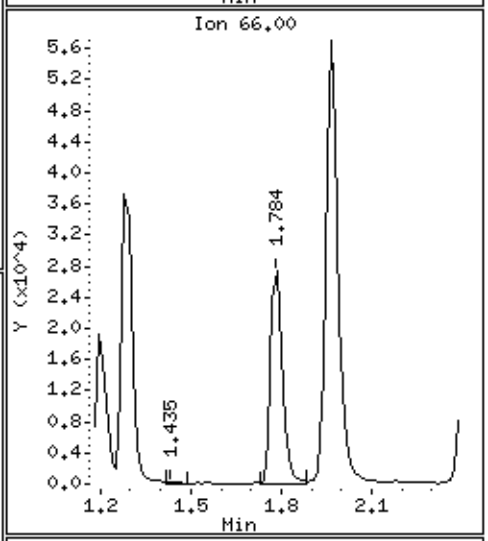


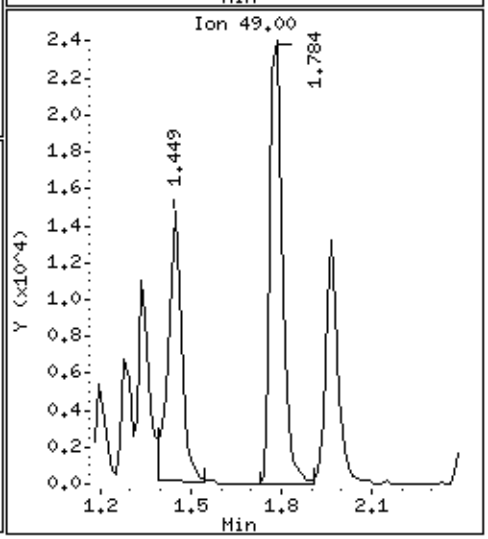












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

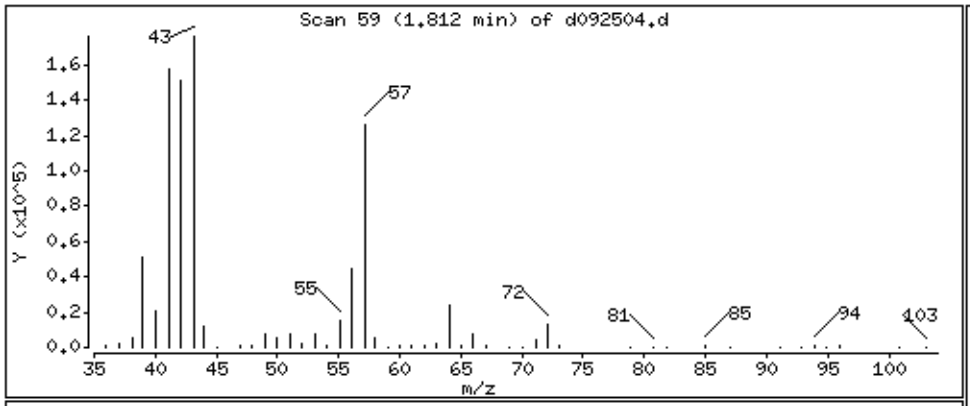
Operator: ccy

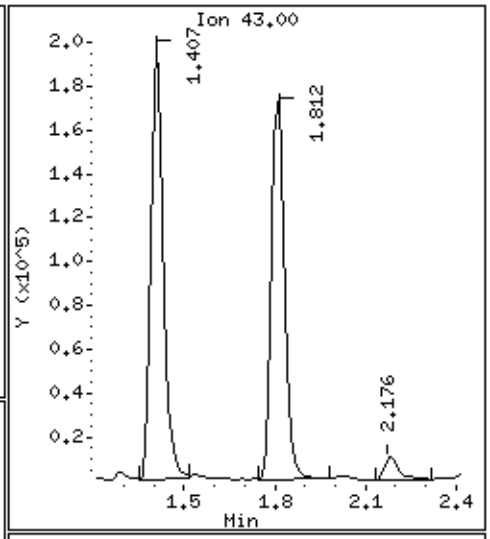
Column phase: RTx-624

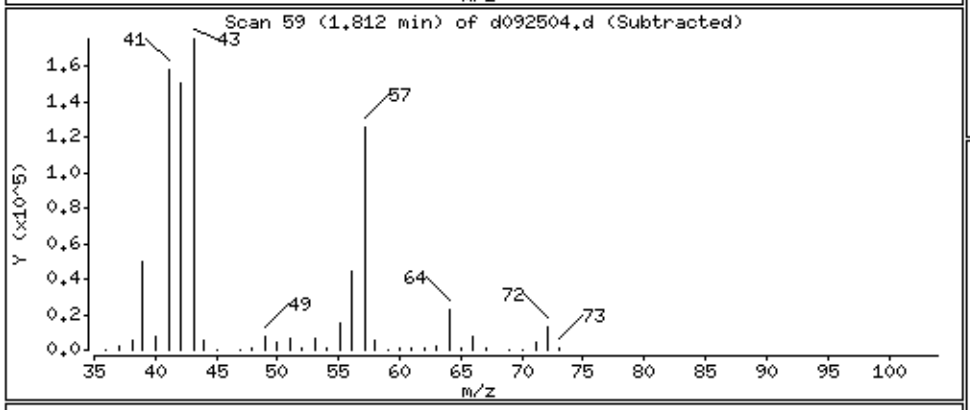
Column diameter: 0.53

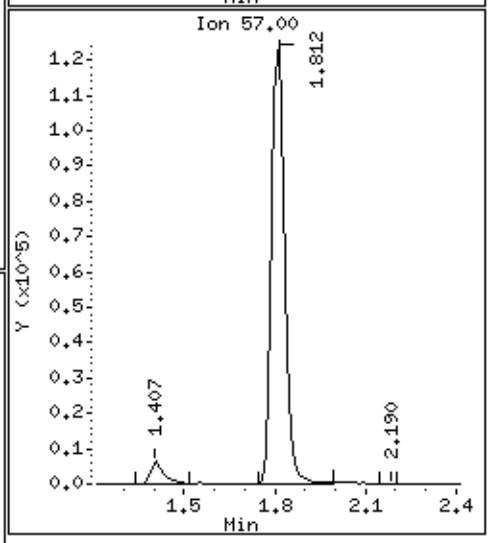
26 Isopentane

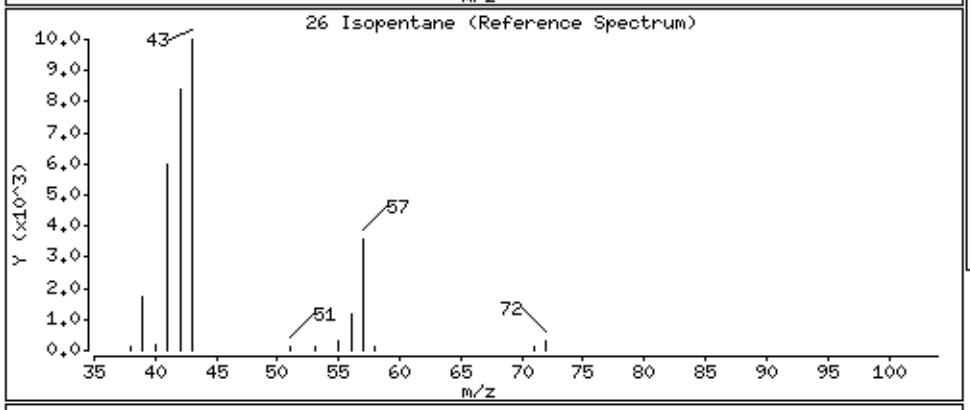
Concentration: 57.505 PPBV

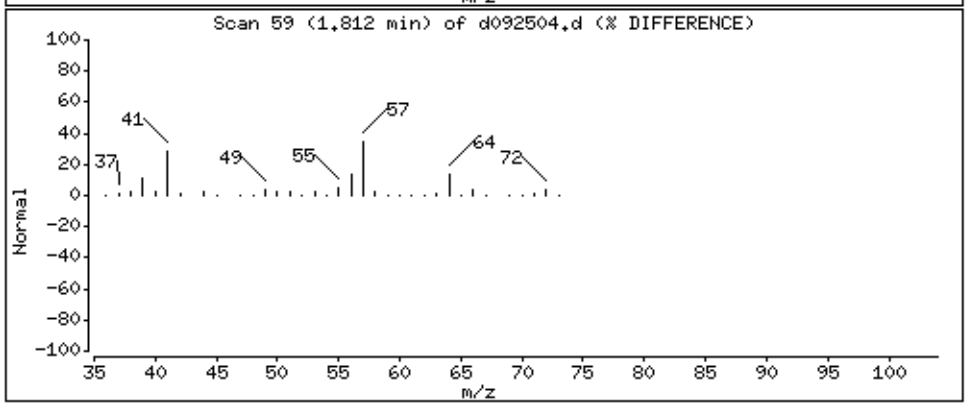












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

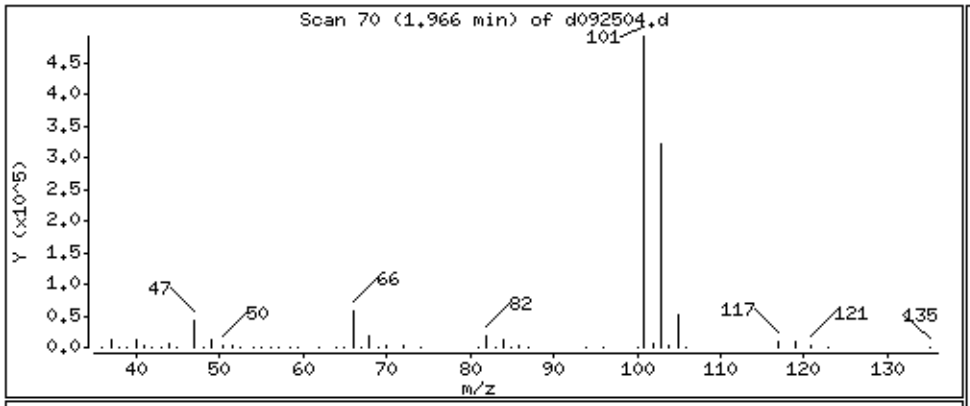
Operator: ccy

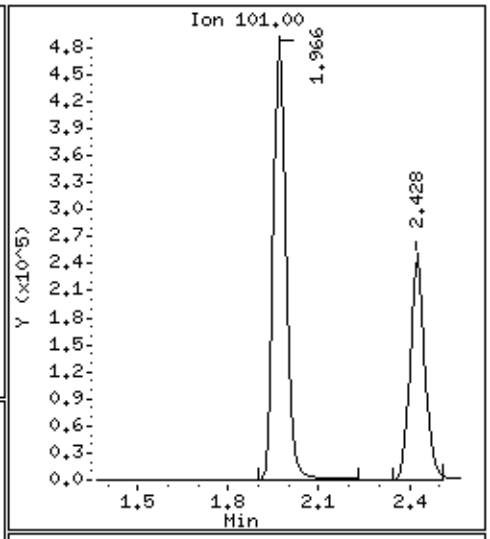
Column phase: RTx-624

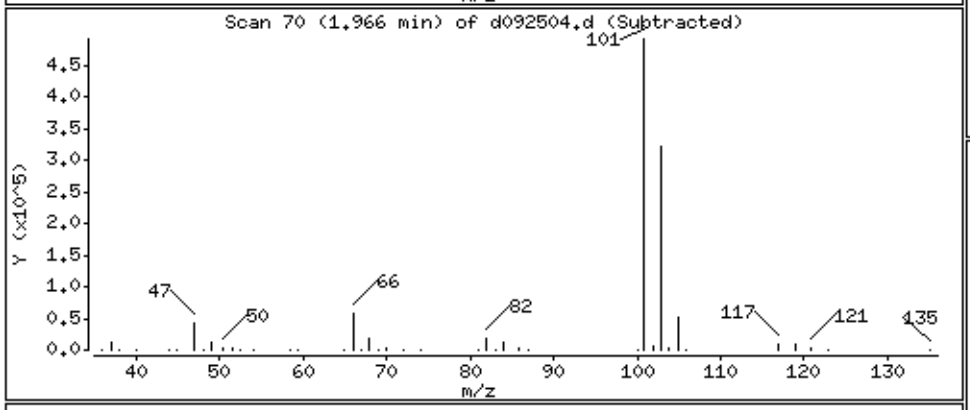
Column diameter: 0.53

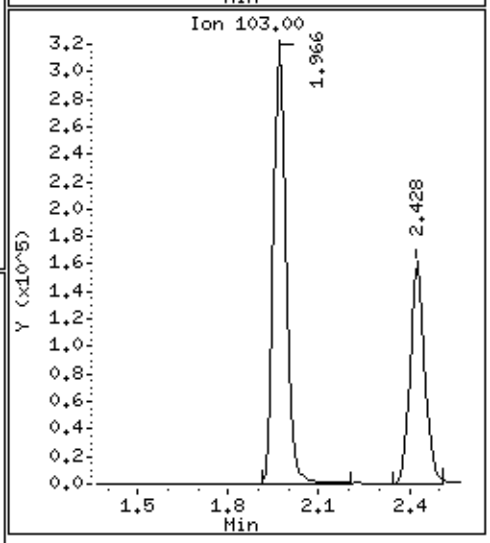
28 Trichlorofluoromethane/Fr11

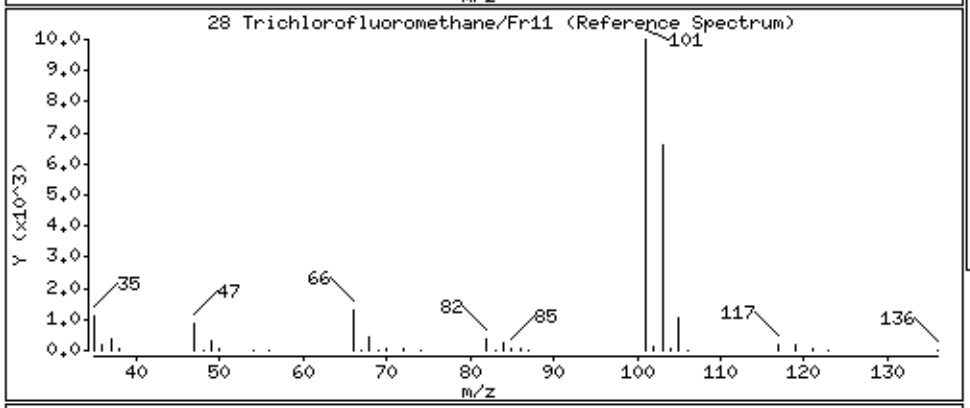
Concentration: 54.818 PPBV

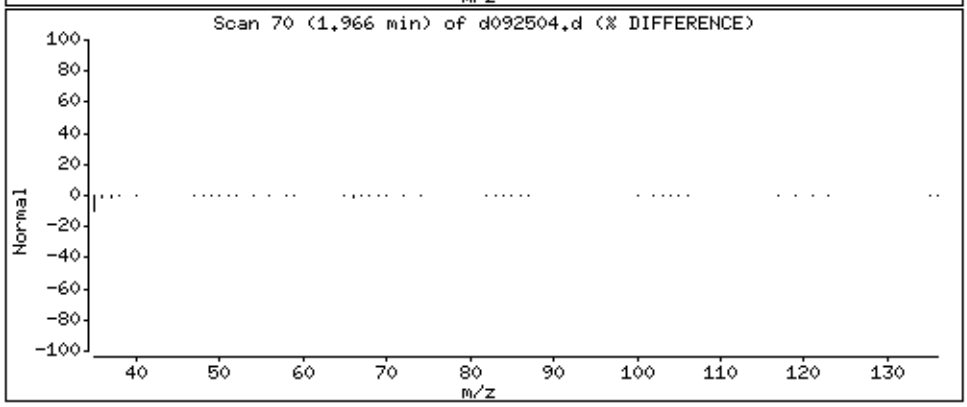












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

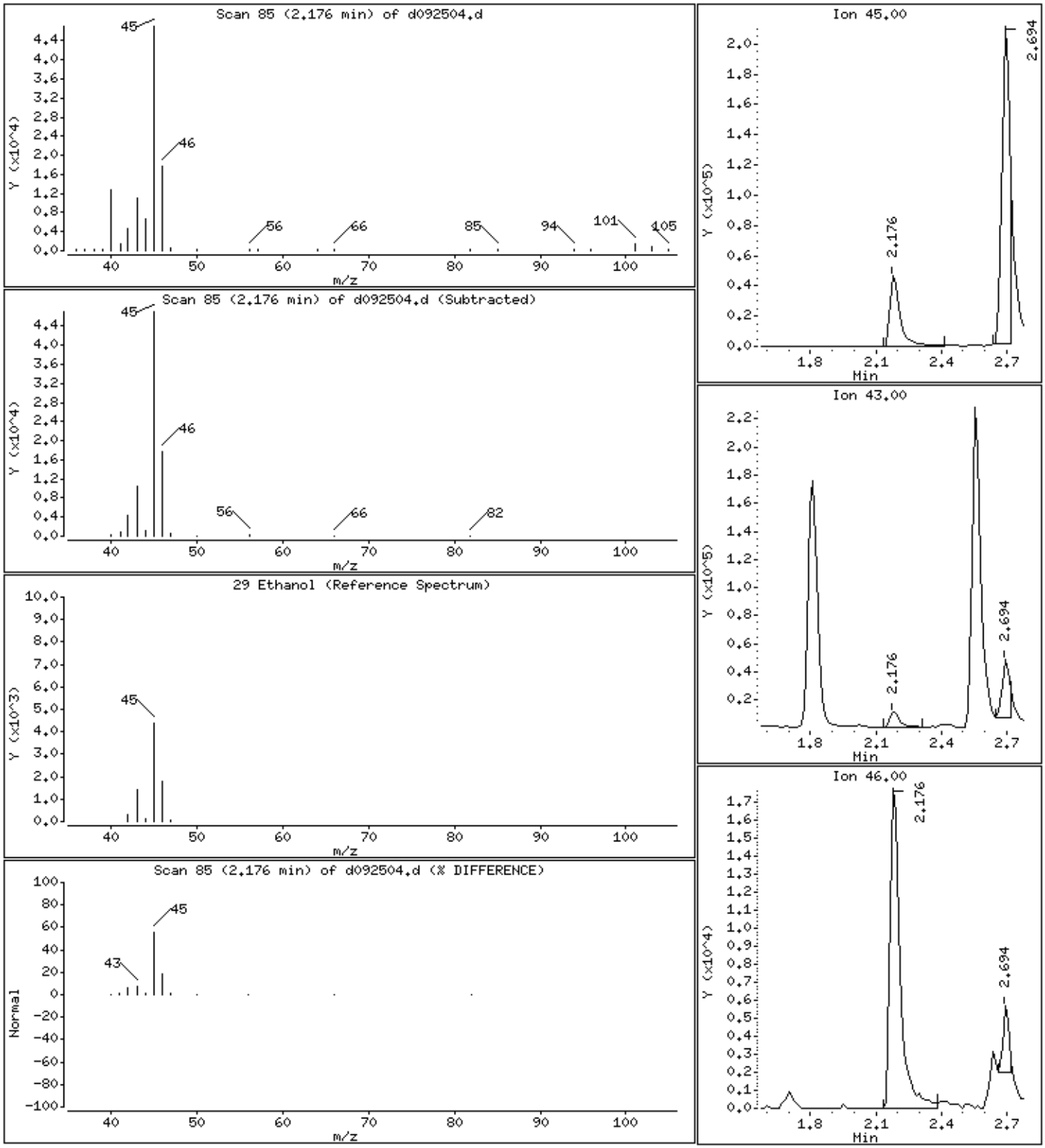
Operator: ccy

Column phase: RTx-624

Column diameter: 0.53

29 Ethanol

Concentration: 49.094 PPBV



Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

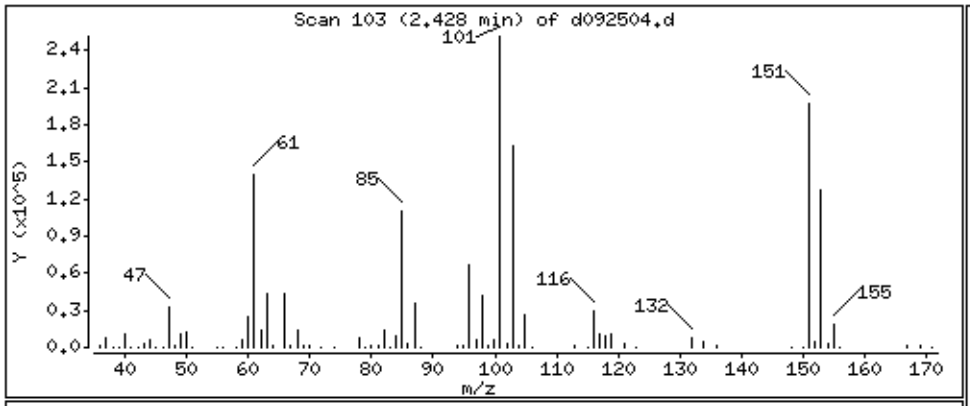
Operator: ccy

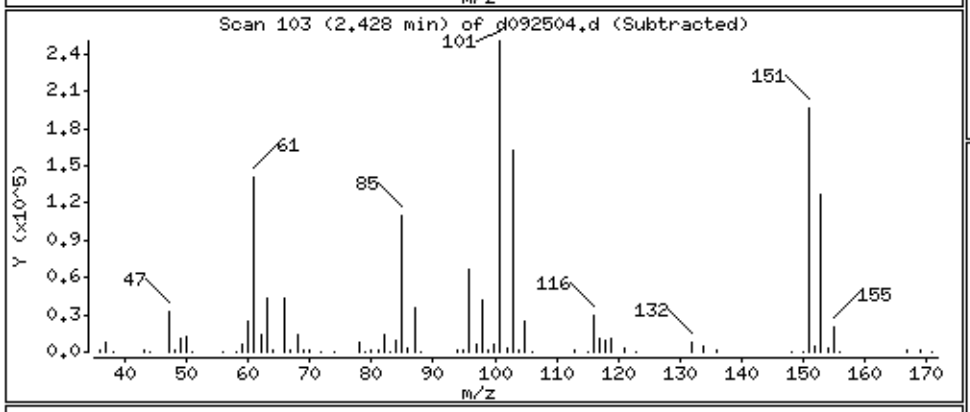
Column phase: RTx-624

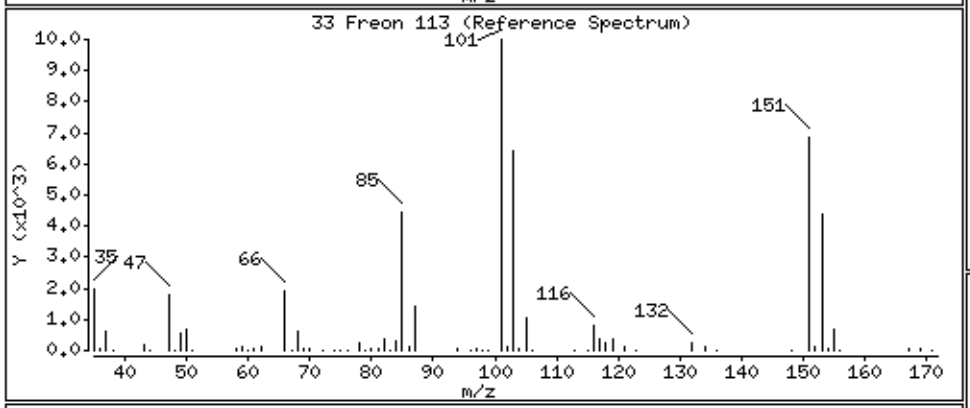
Column diameter: 0.53

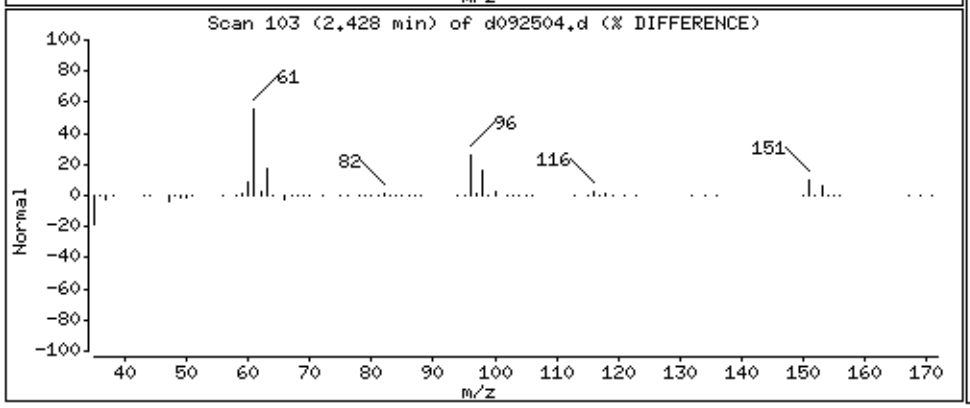
33 Freon 113

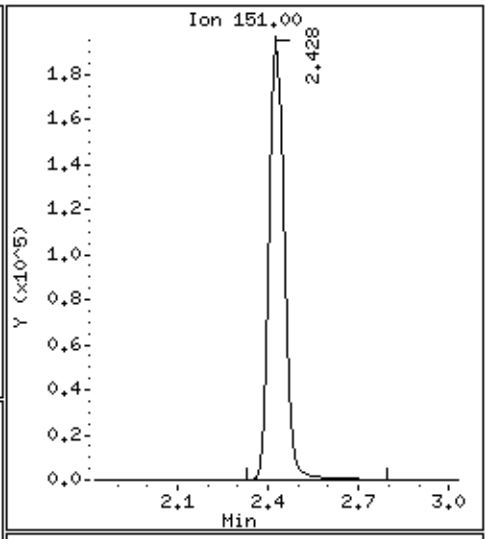
Concentration: 47.853 PPBV

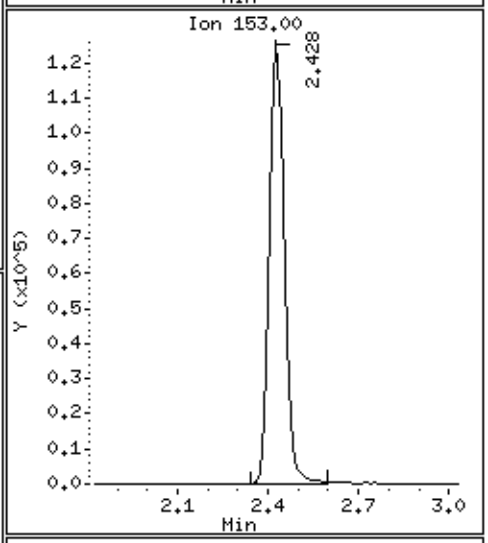


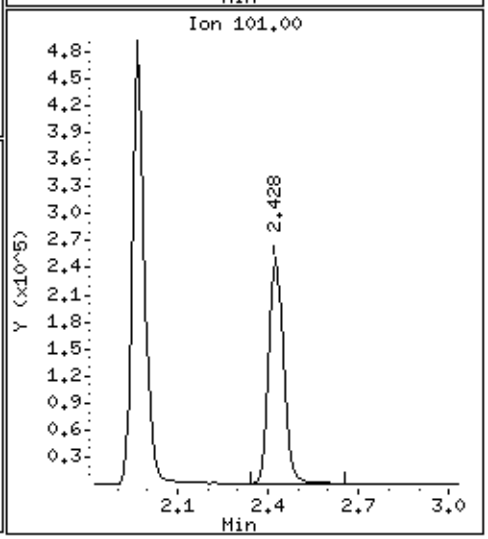












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

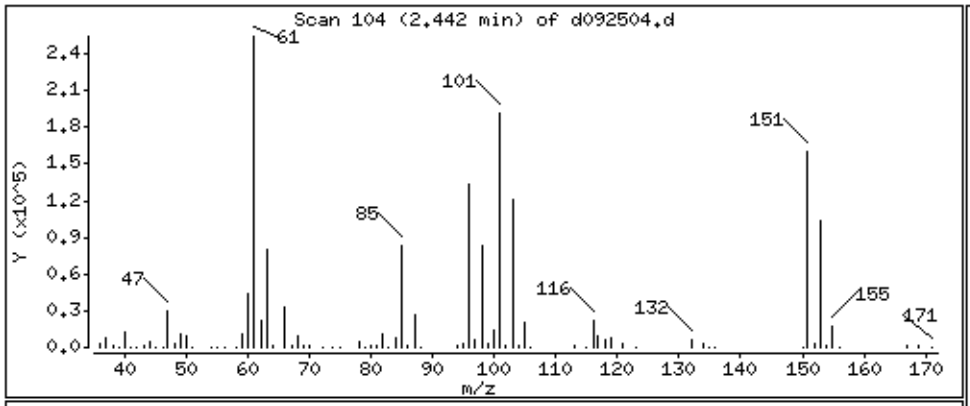
Operator: ccy

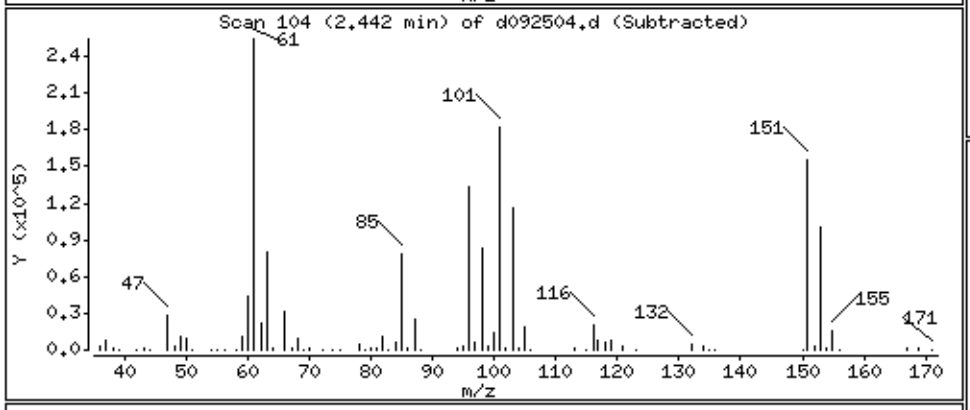
Column phase: RTx-624

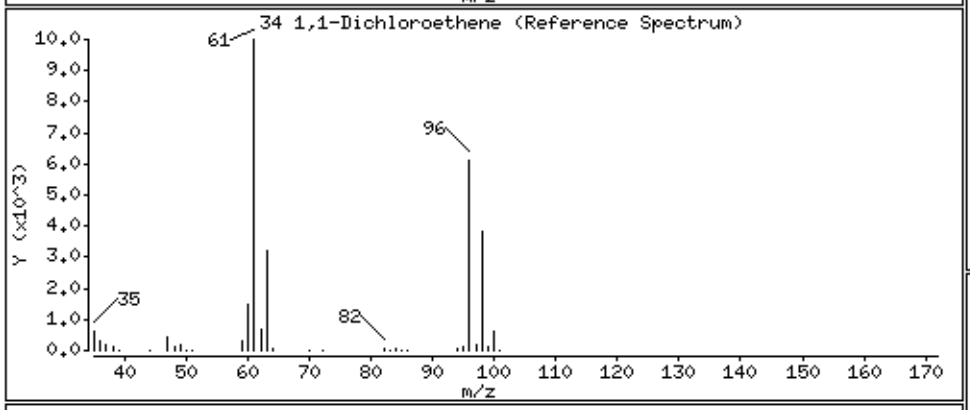
Column diameter: 0.53

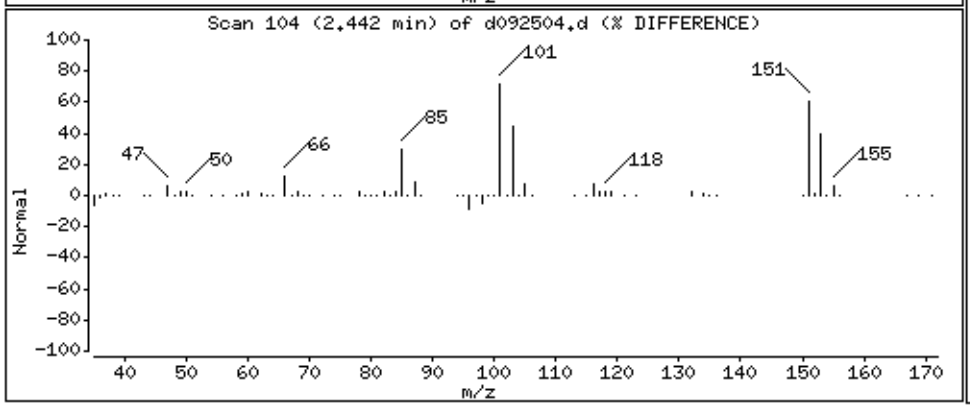
34 1,1-Dichloroethene

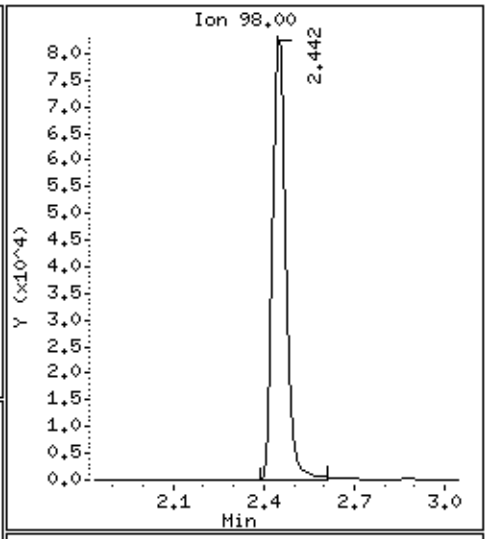
Concentration: 46.974 PPBV

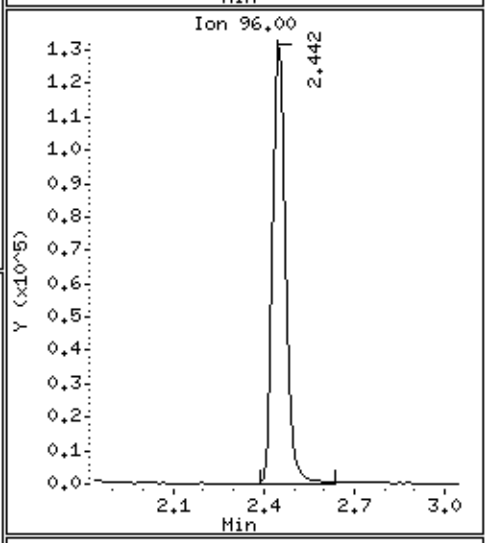


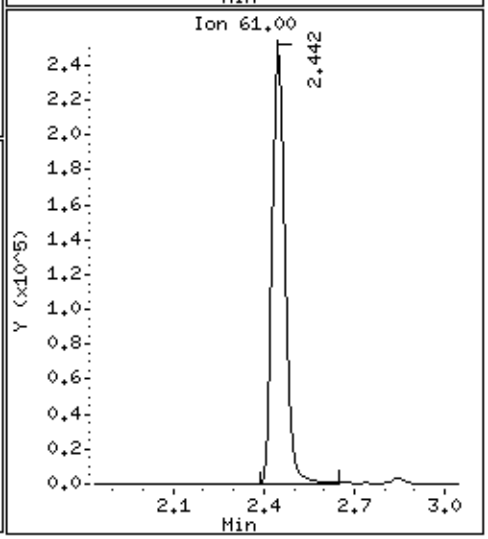












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

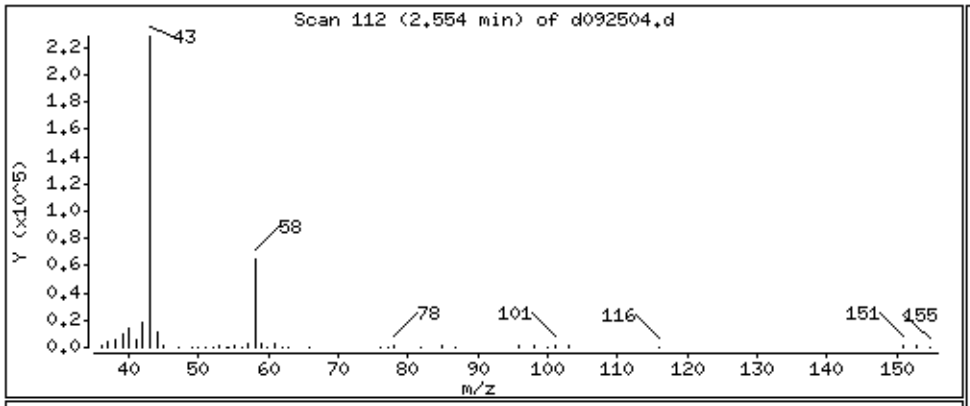
Operator: ccy

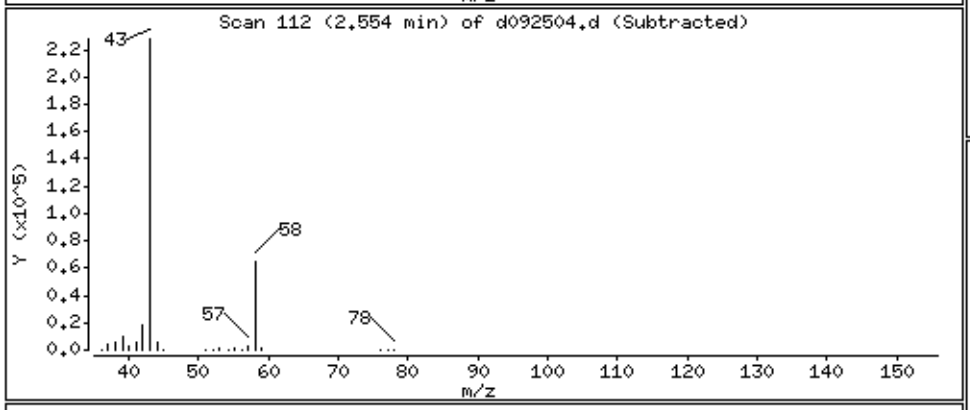
Column phase: RTx-624

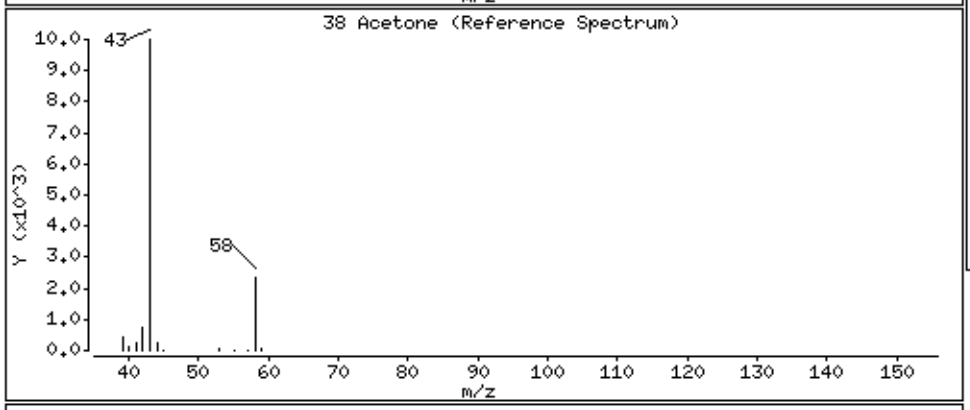
Column diameter: 0.53

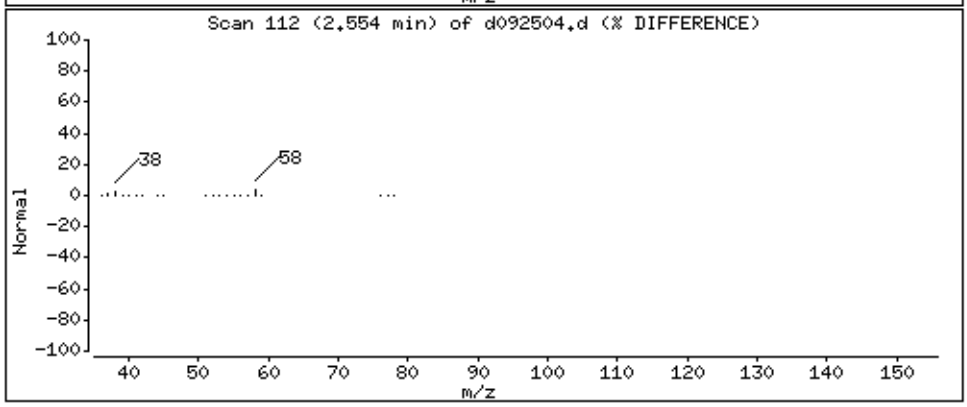
38 Acetone

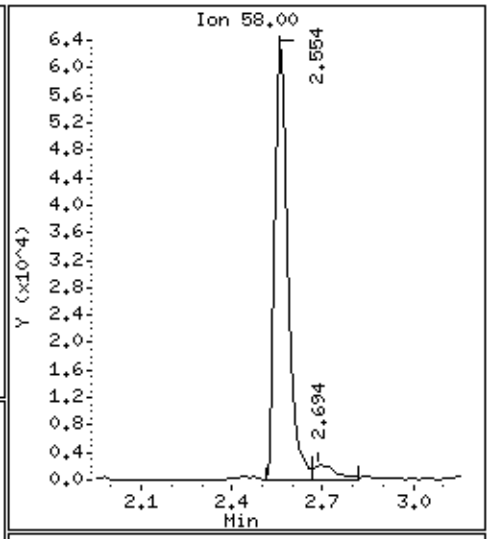
Concentration: 46.453 PPBV

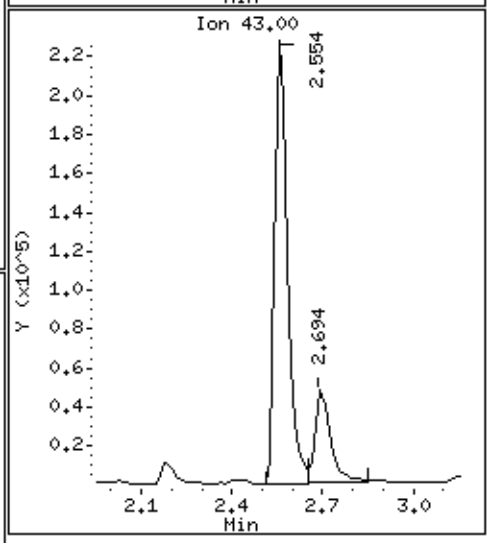












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

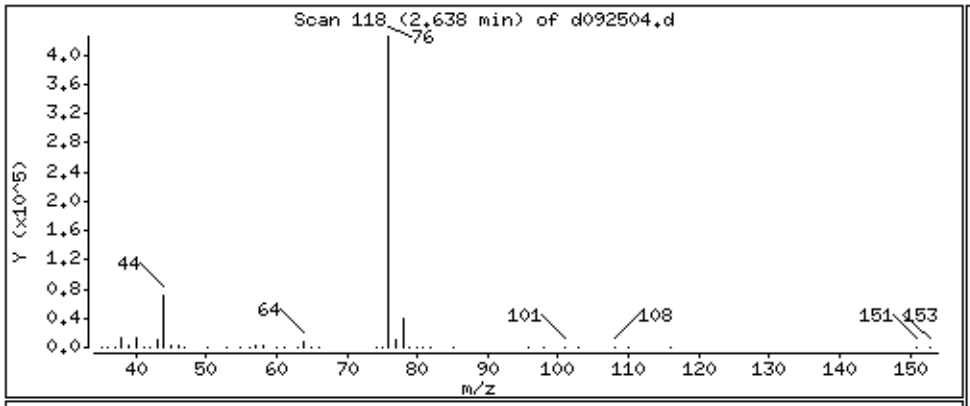
Operator: ccy

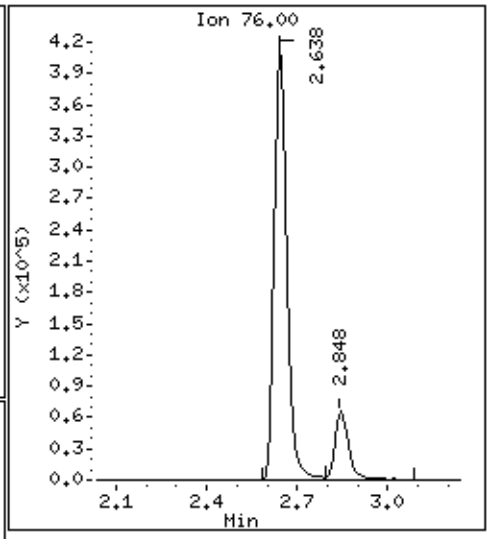
Column phase: RTx-624

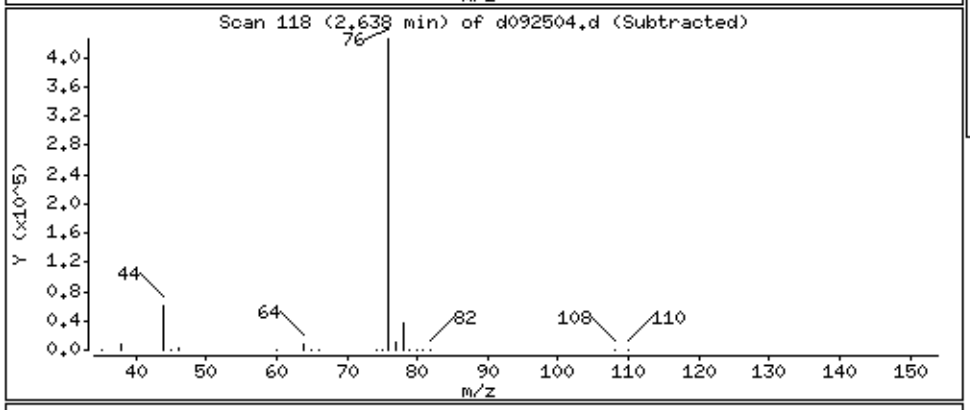
Column diameter: 0.53

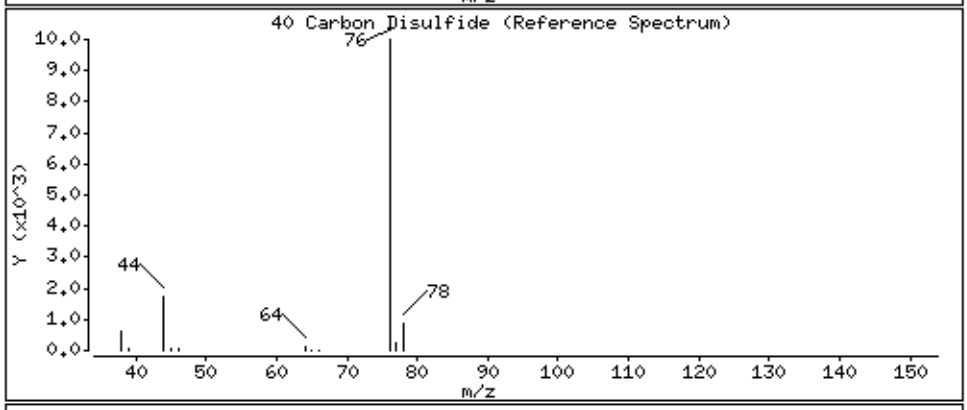
40 Carbon Disulfide

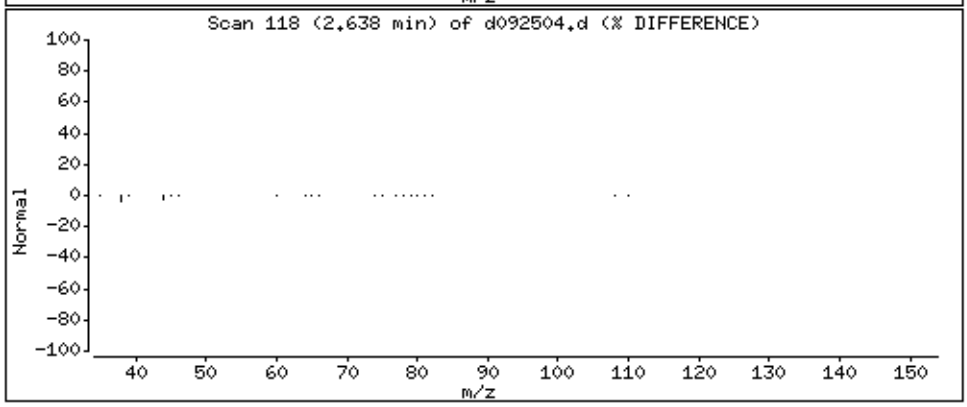
Concentration: 51.946 PPBV











Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

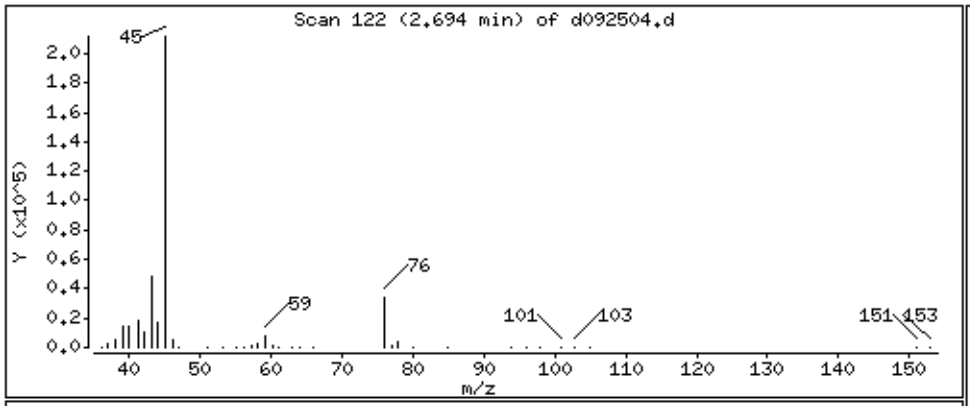
Operator: ccy

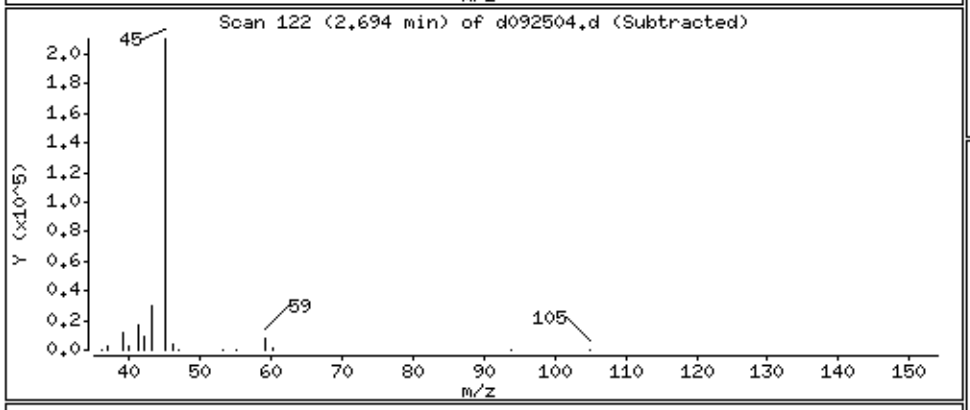
Column phase: RTx-624

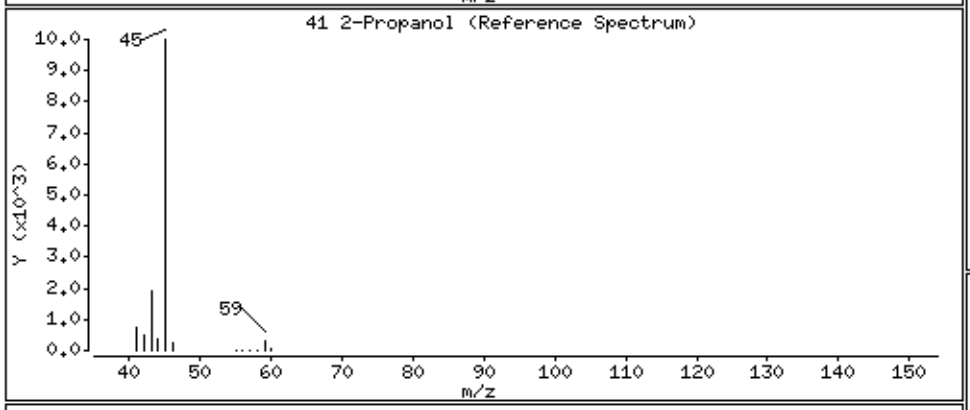
Column diameter: 0.53

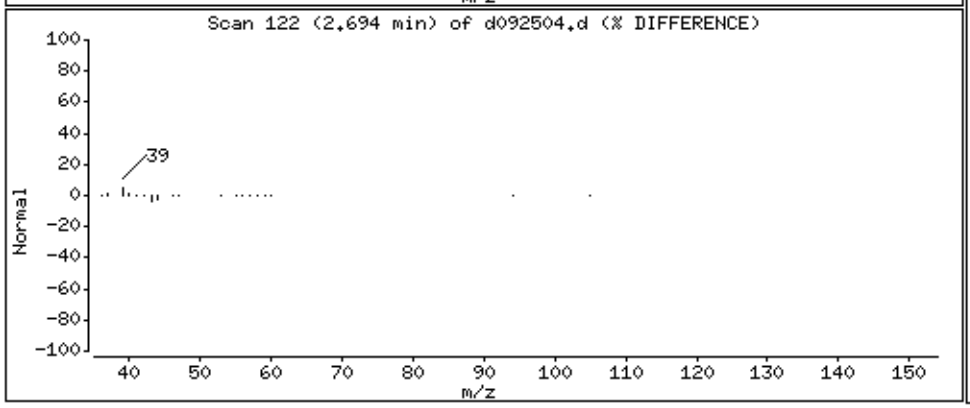
41 2-Propanol

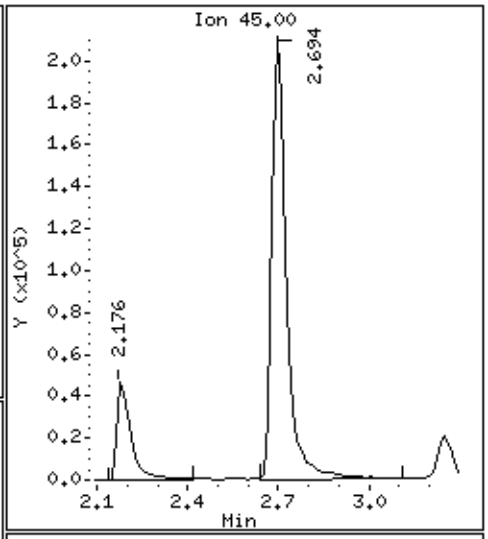
Concentration: 48.116 PPBV

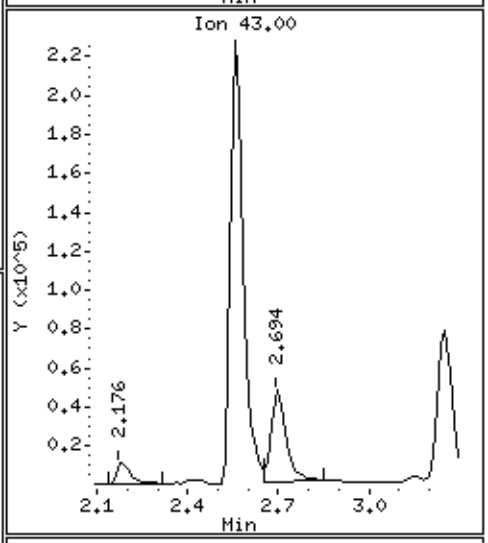


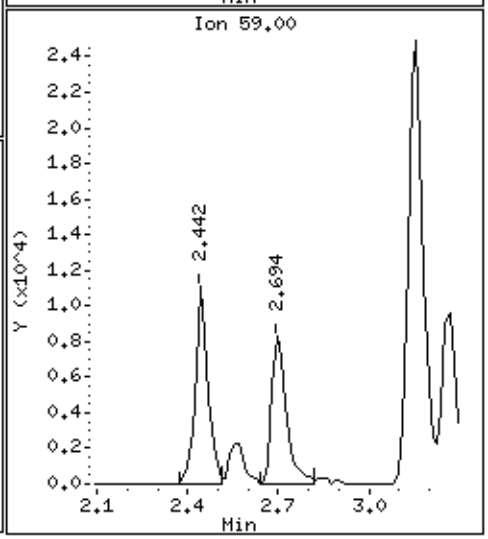












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

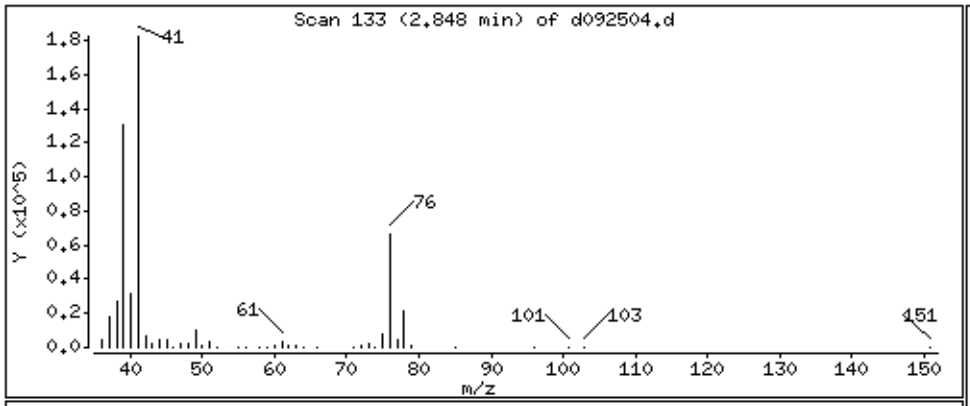
Operator: ccy

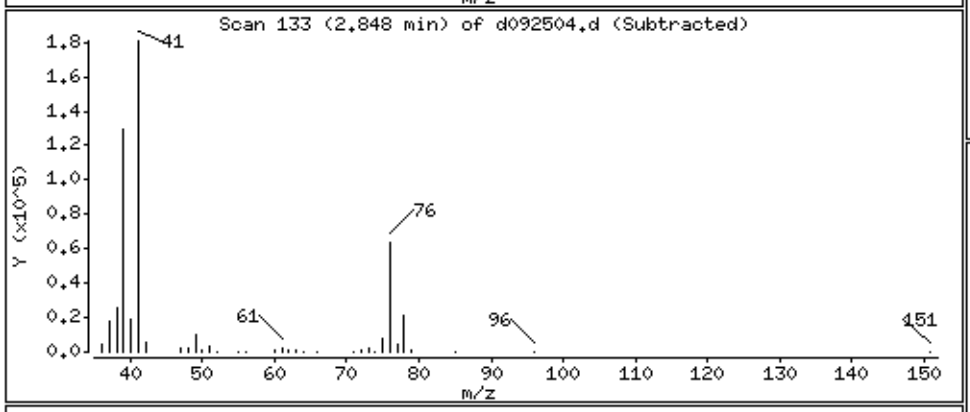
Column phase: RTx-624

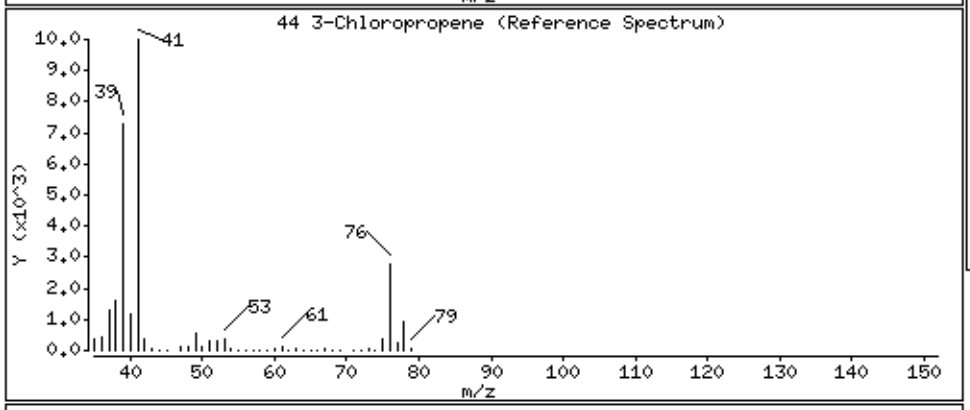
Column diameter: 0.53

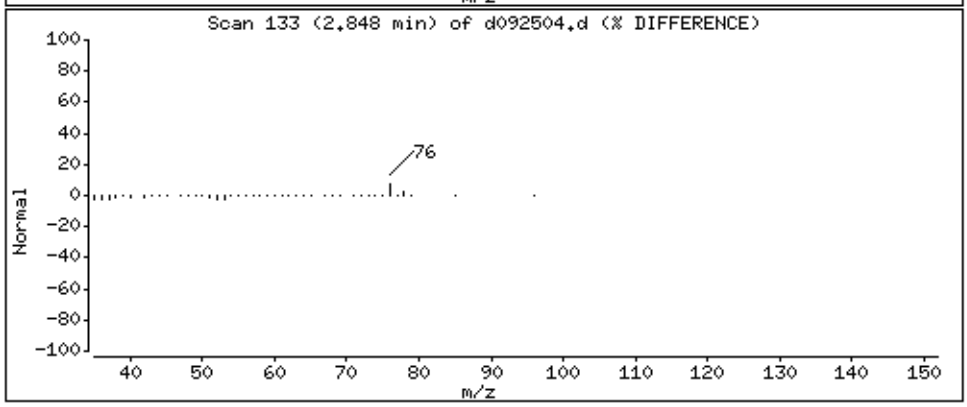
44 3-Chloropropene

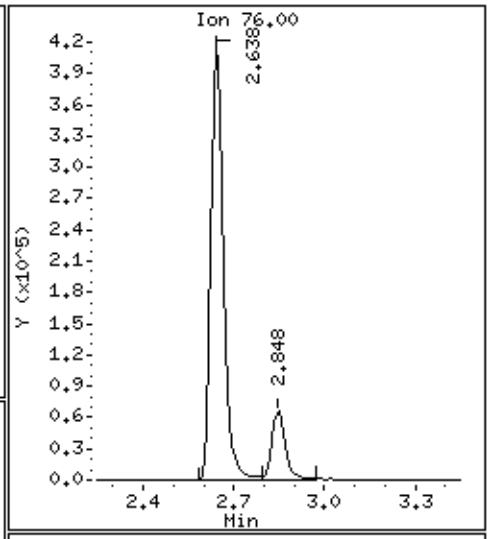
Concentration: 52.100 PPBV

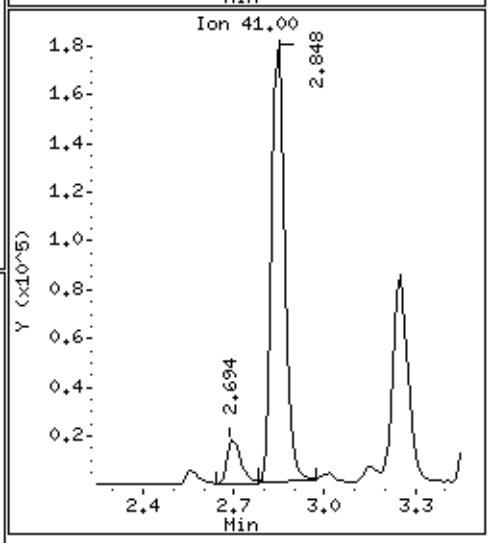












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

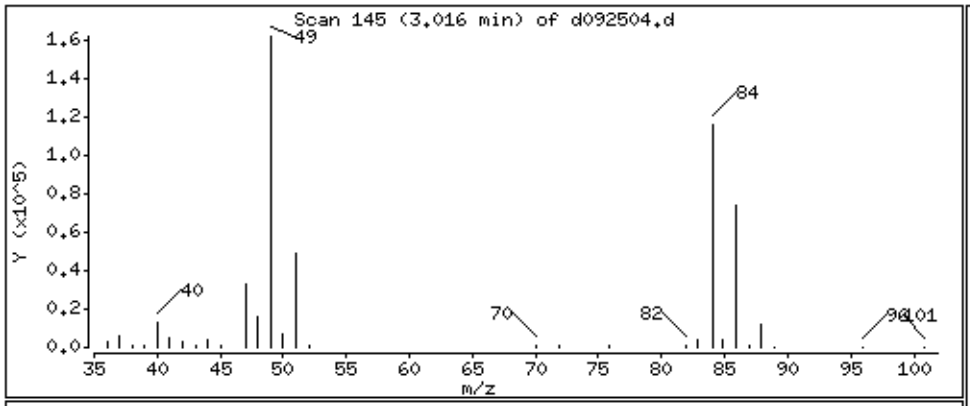
Operator: ccy

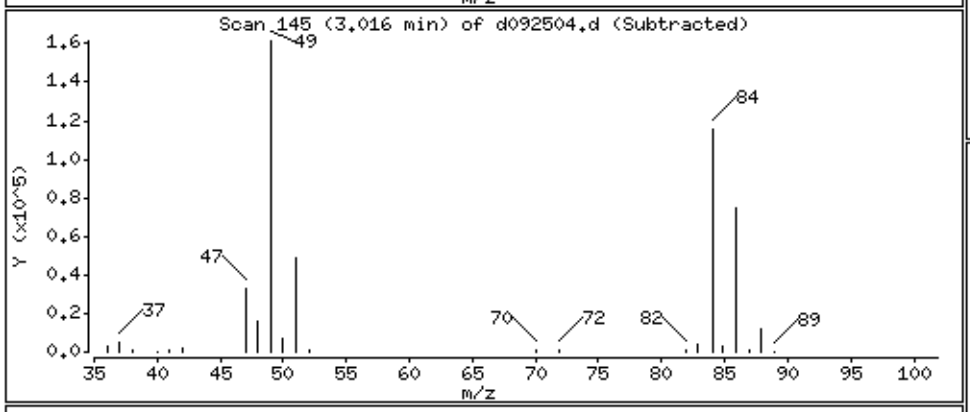
Column phase: RTx-624

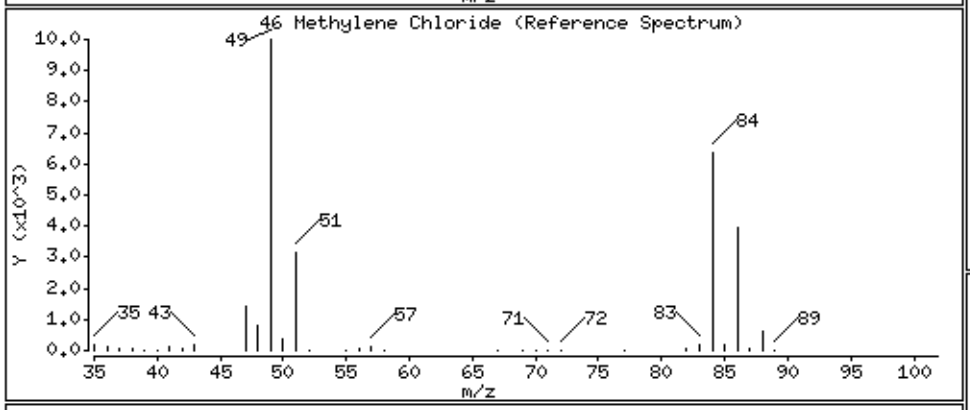
Column diameter: 0.53

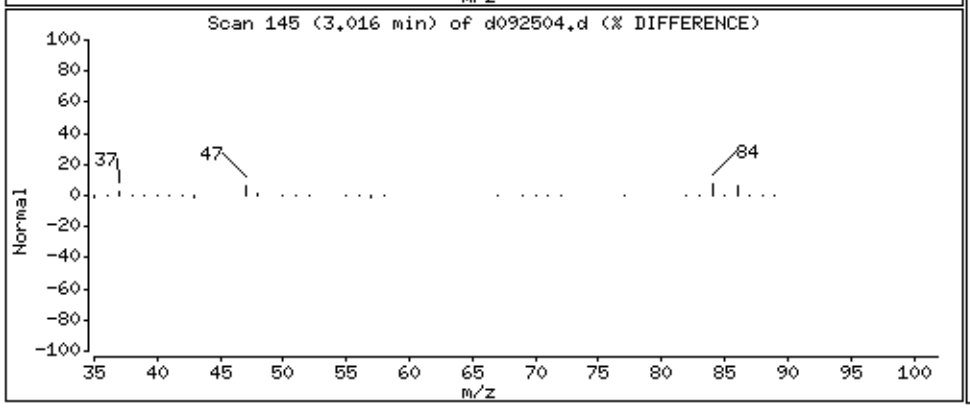
46 Methylene Chloride

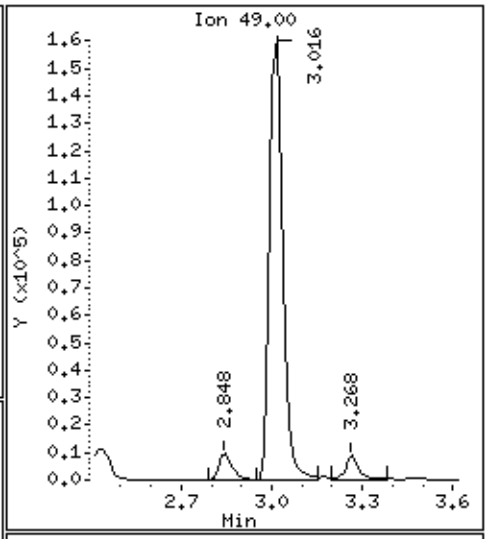
Concentration: 46.067 PPBV

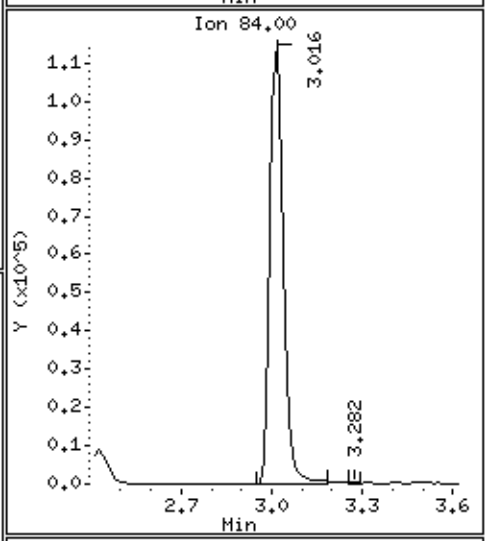


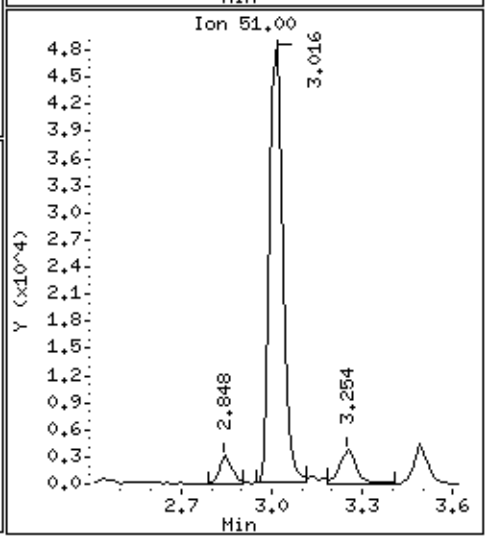












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

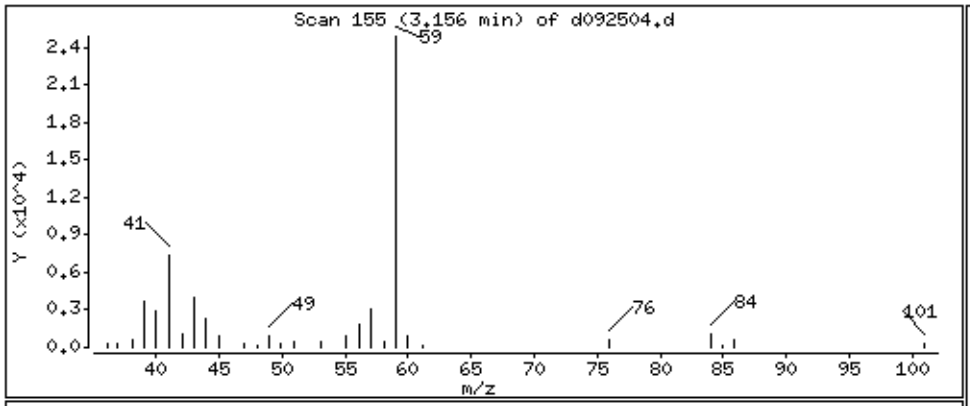
Operator: ccy

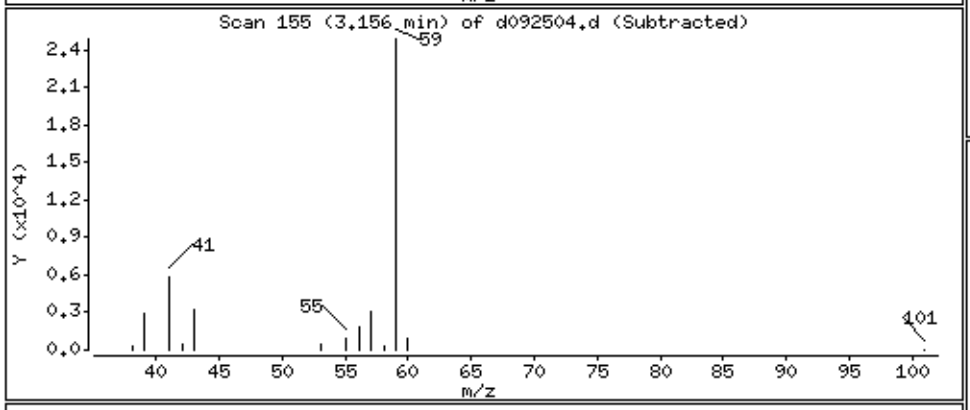
Column phase: RTx-624

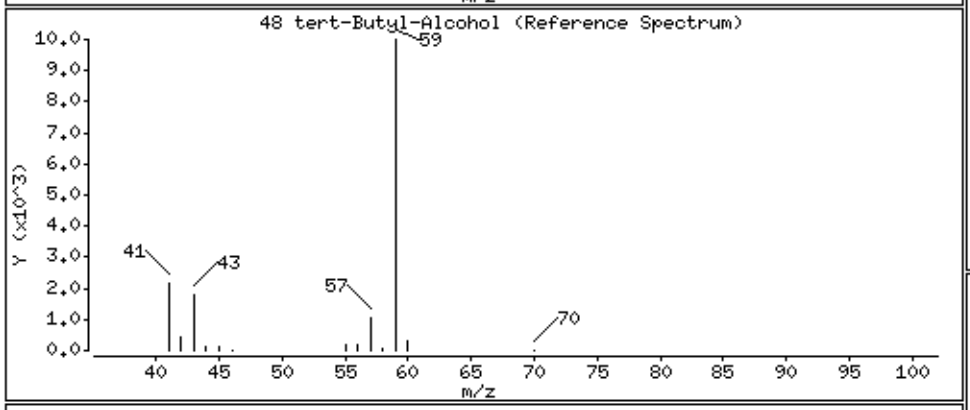
Column diameter: 0.53

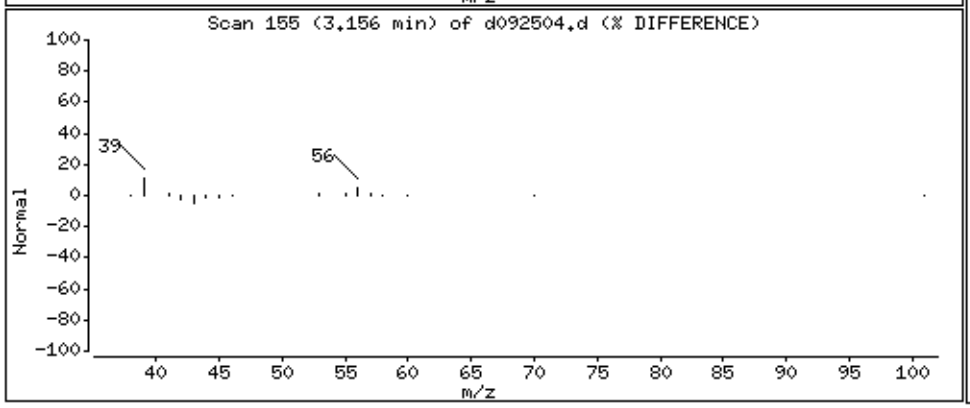
48 tert-Butyl-Alcohol

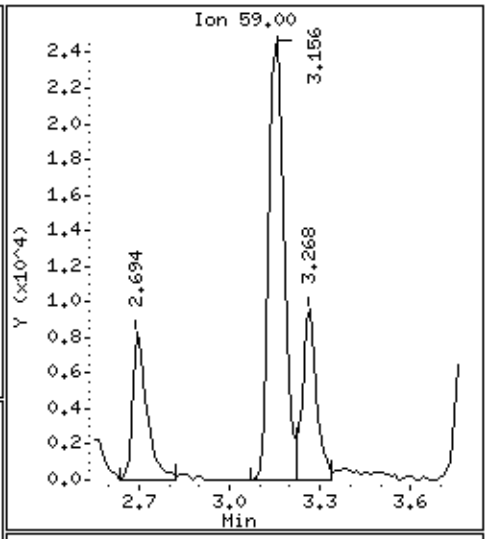
Concentration: 4.771 PPBV

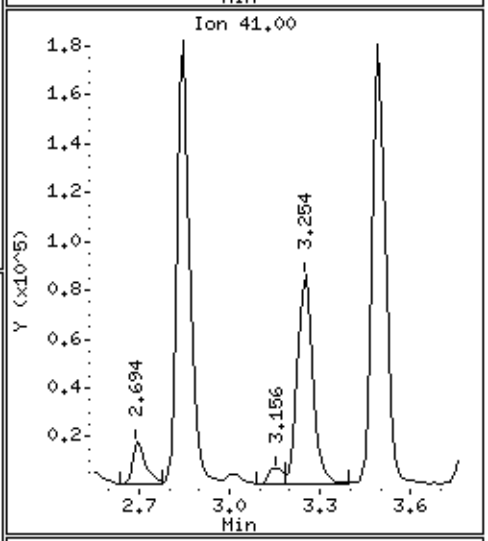


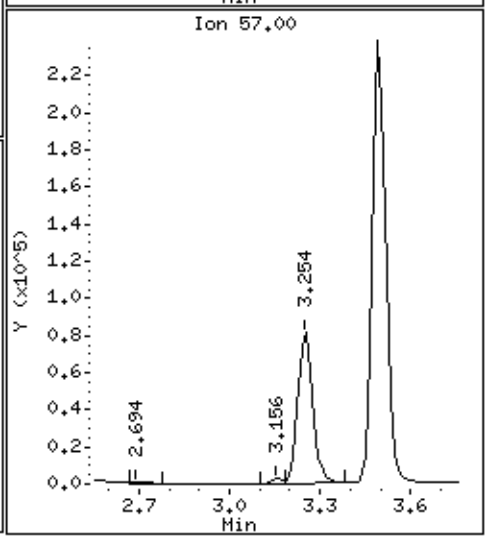












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

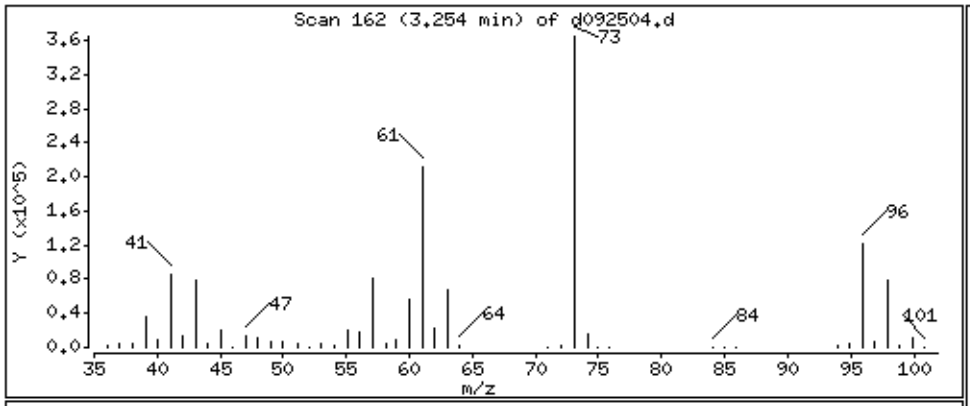
Operator: ccy

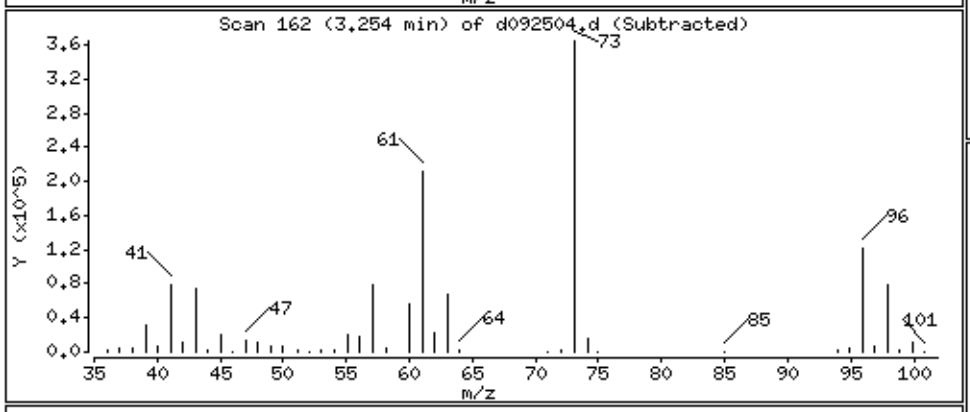
Column phase: RTx-624

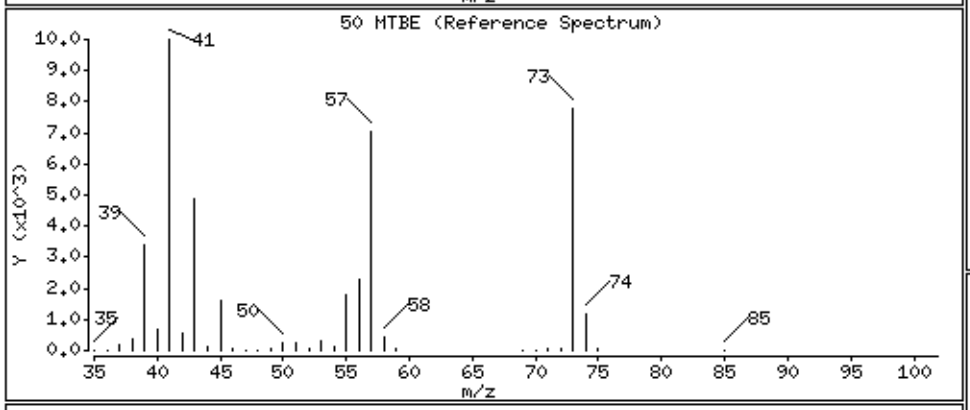
Column diameter: 0.53

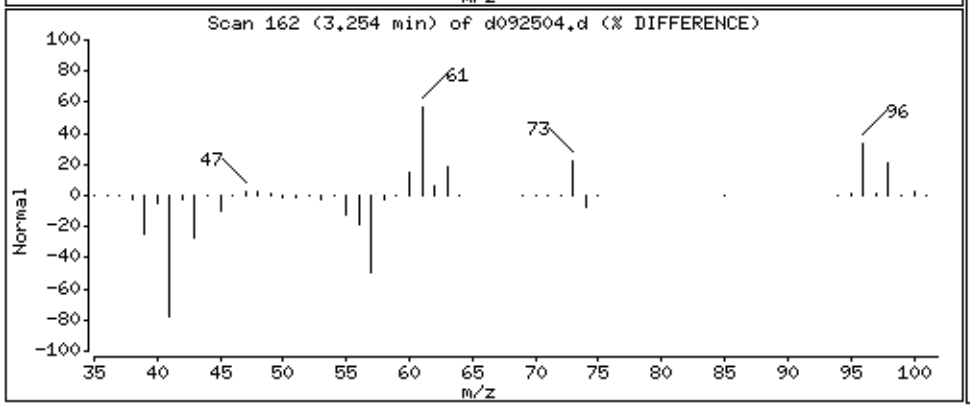
50 MTBE

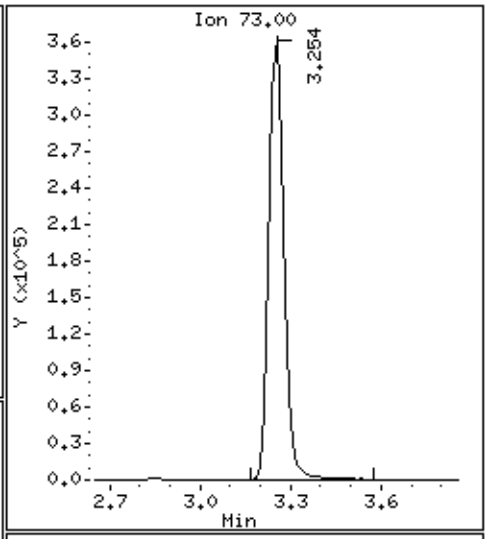
Concentration: 50.092 PPBV

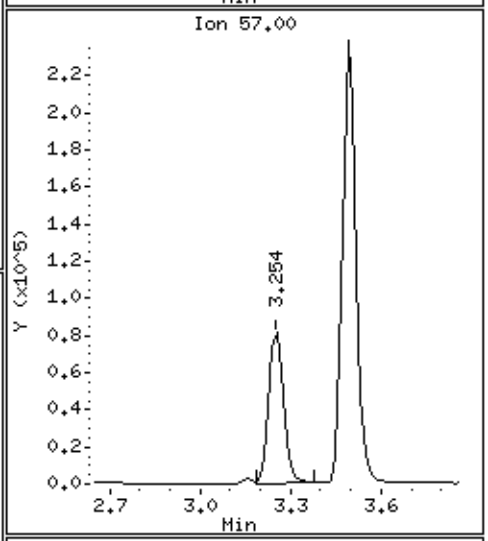


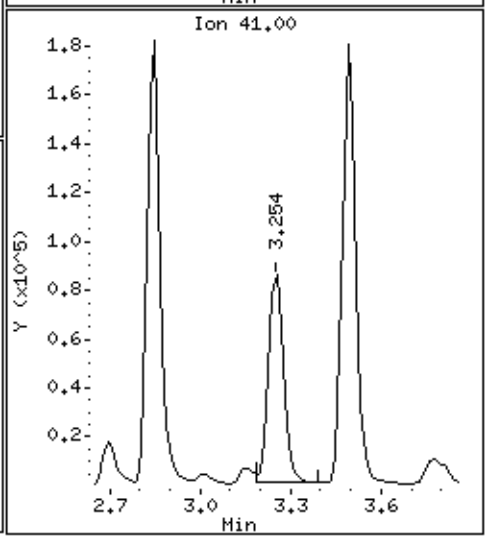












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

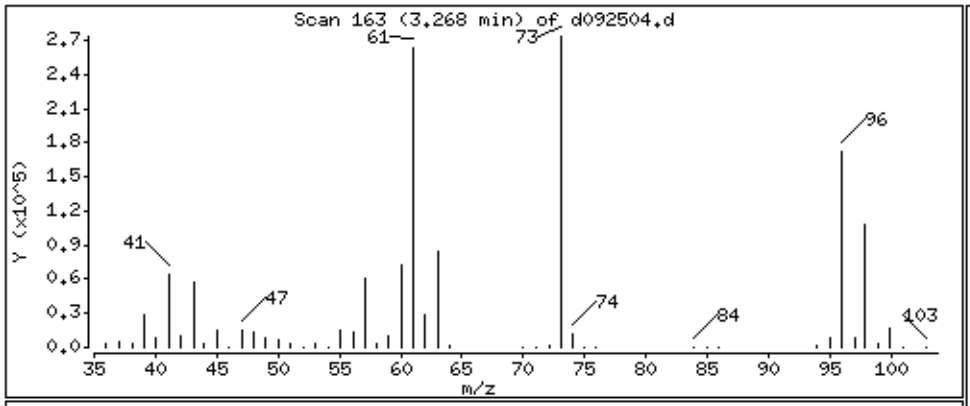
Operator: ccy

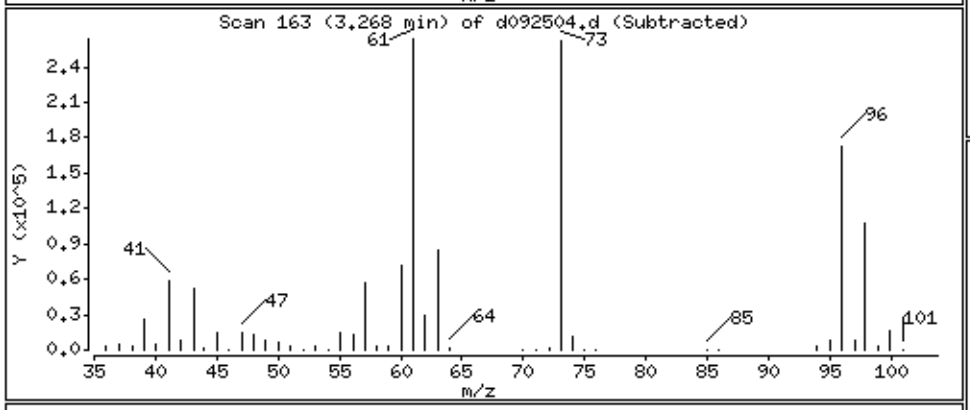
Column phase: RTx-624

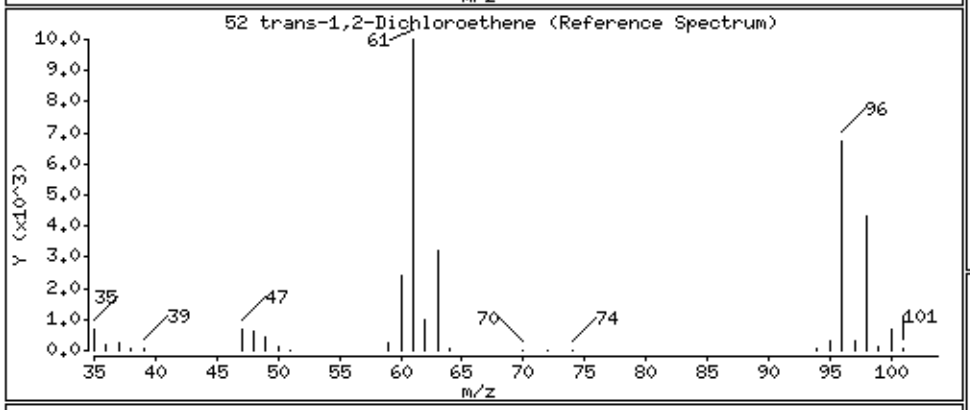
Column diameter: 0.53

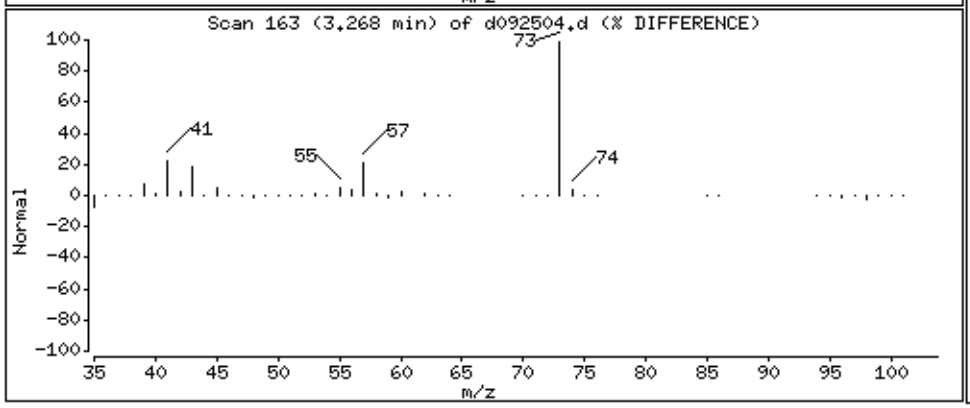
52 trans-1,2-Dichloroethene

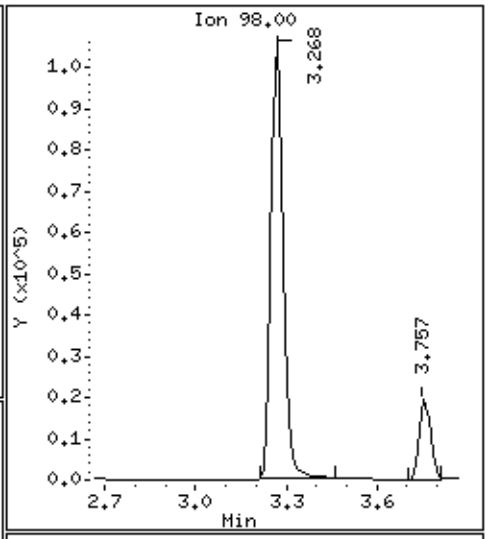
Concentration: 51.811 PPBV

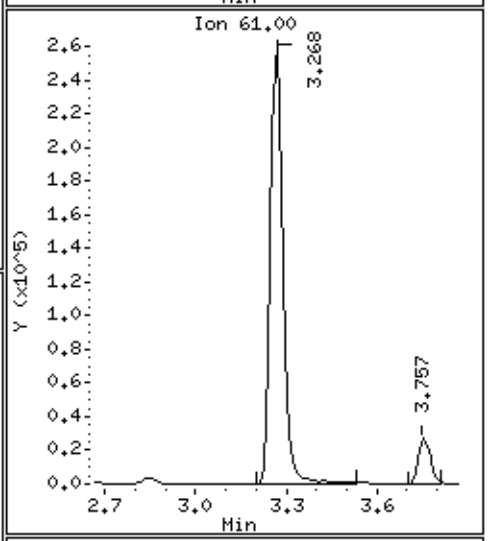


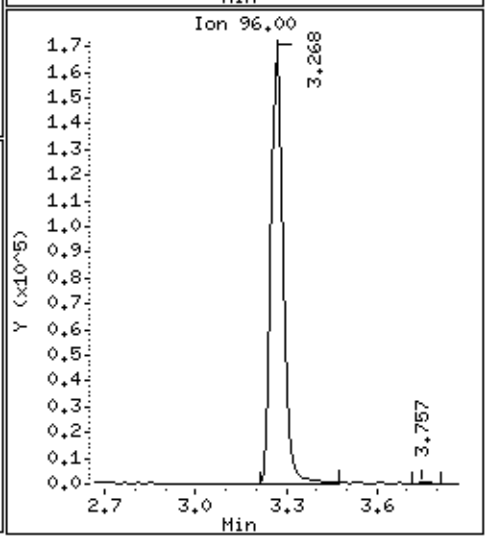












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

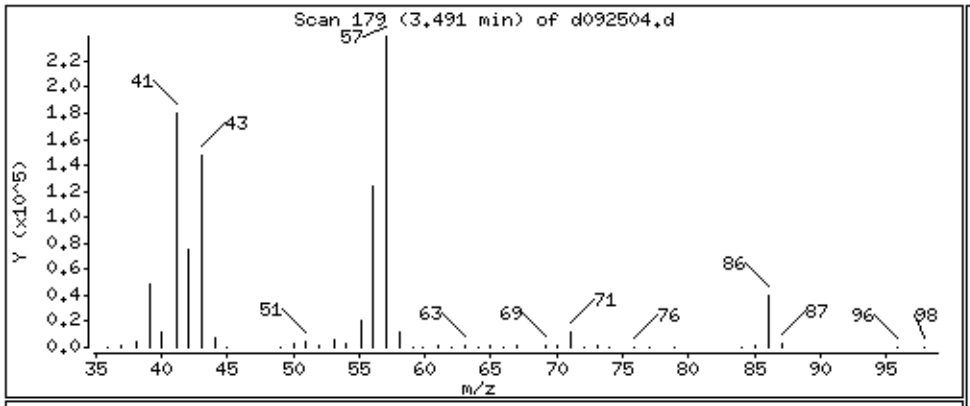
Operator: ccy

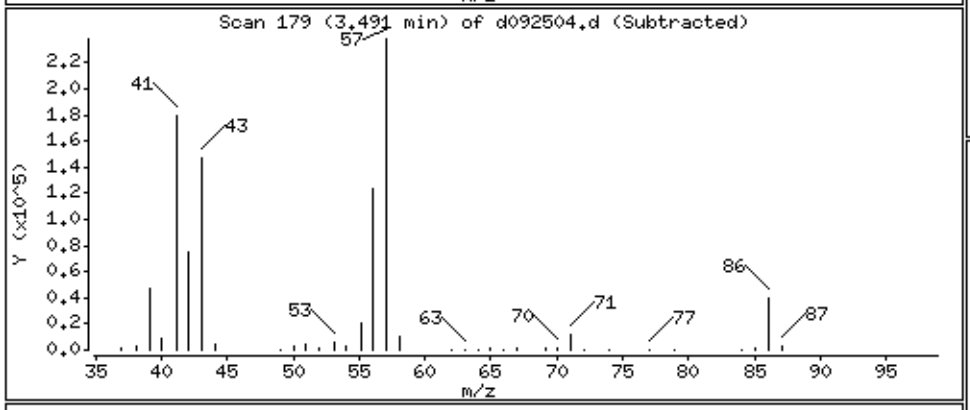
Column phase: RTx-624

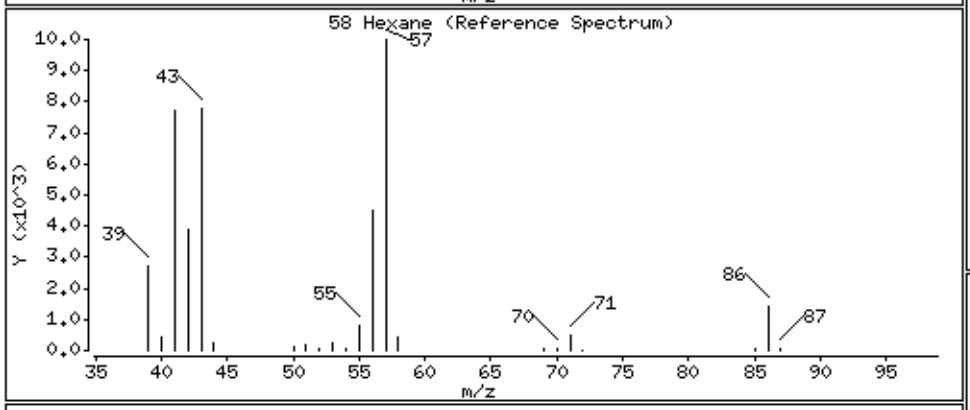
Column diameter: 0.53

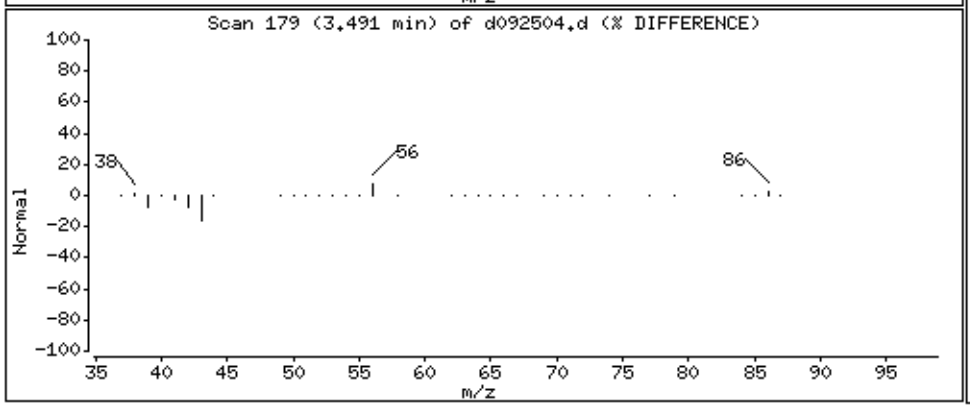
58 Hexane

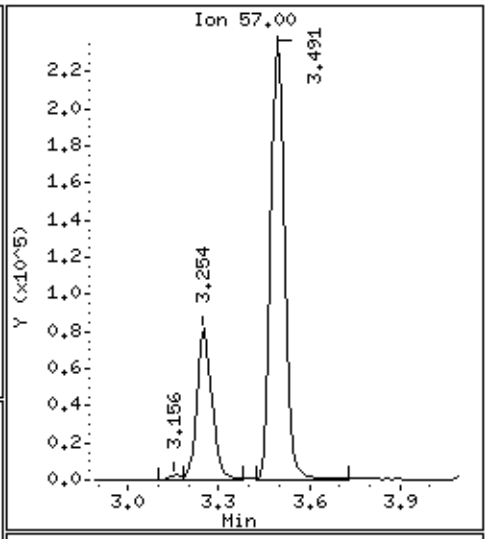
Concentration: 48.768 PPBV

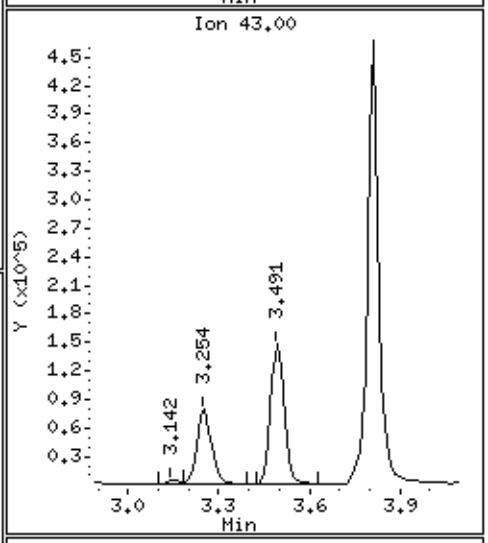


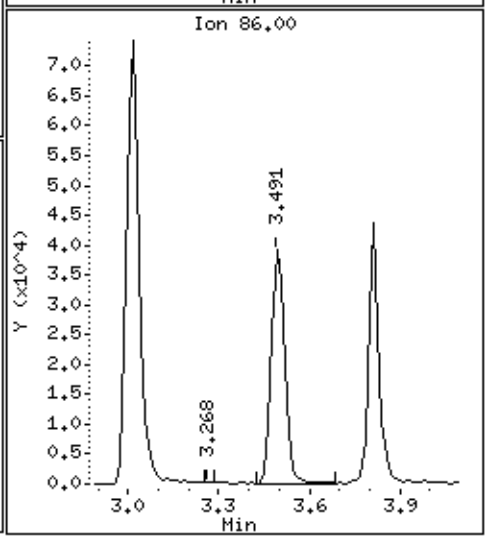












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

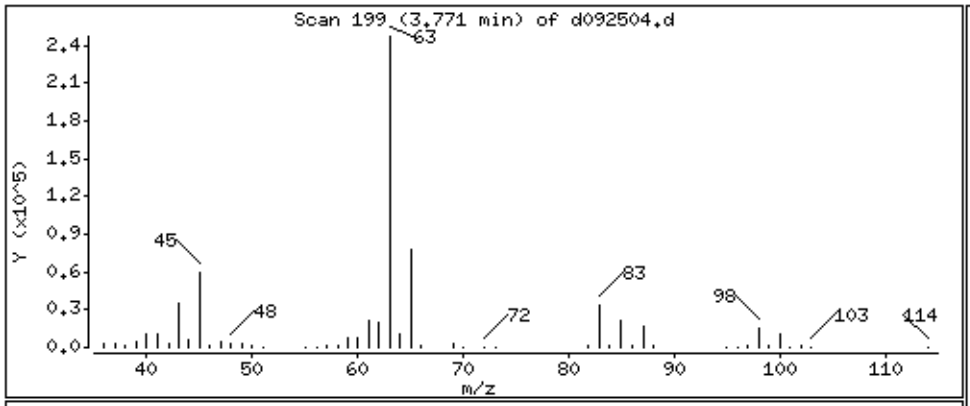
Operator: ccy

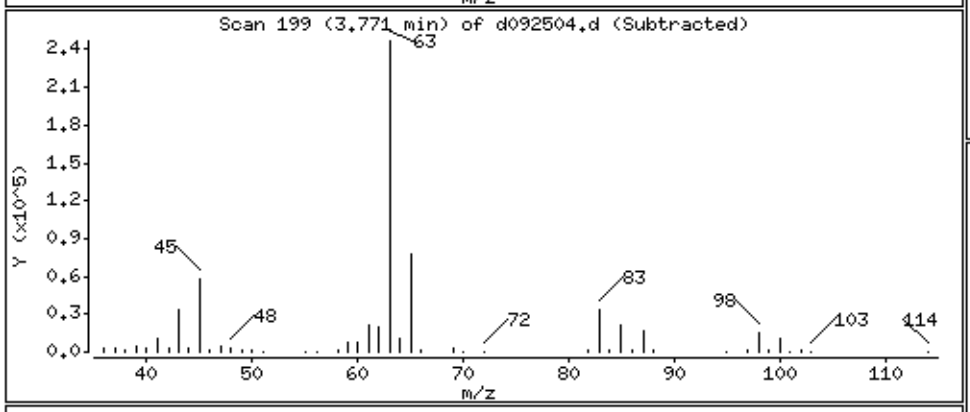
Column phase: RTx-624

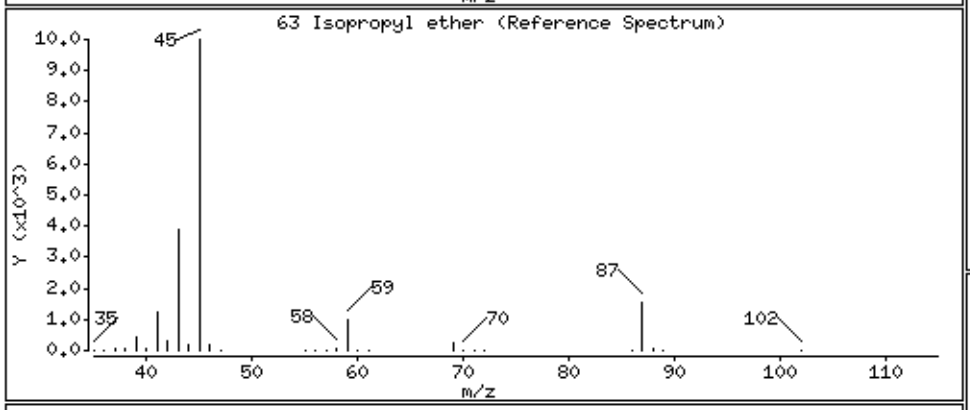
Column diameter: 0.53

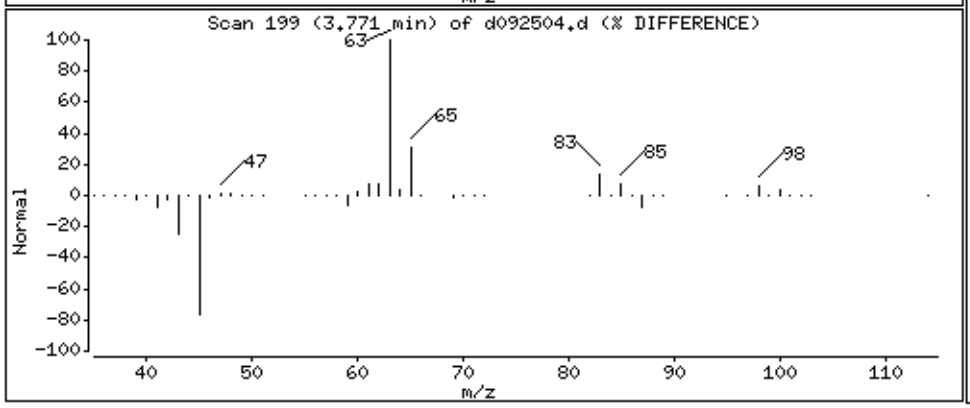
63 Isopropyl ether

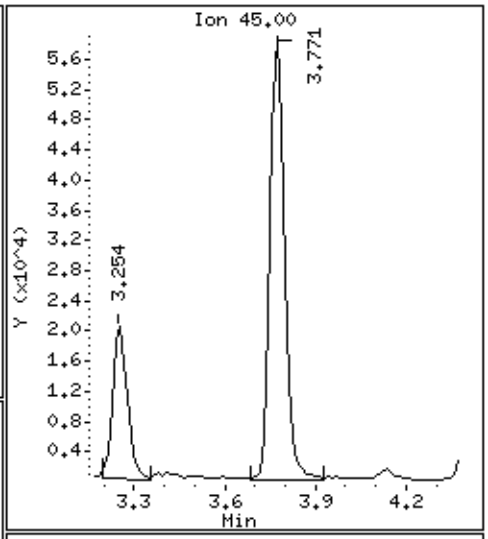
Concentration: 5.058 PPBV

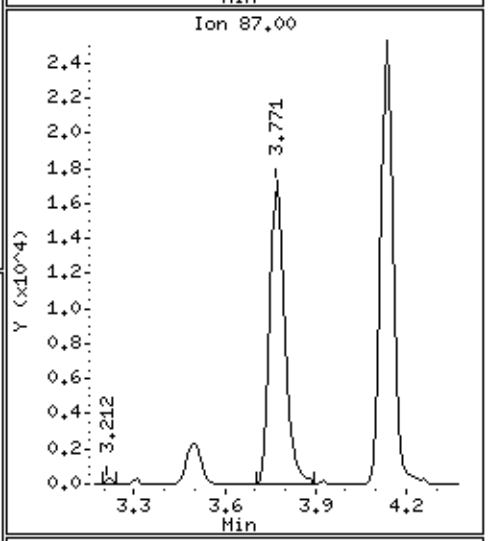


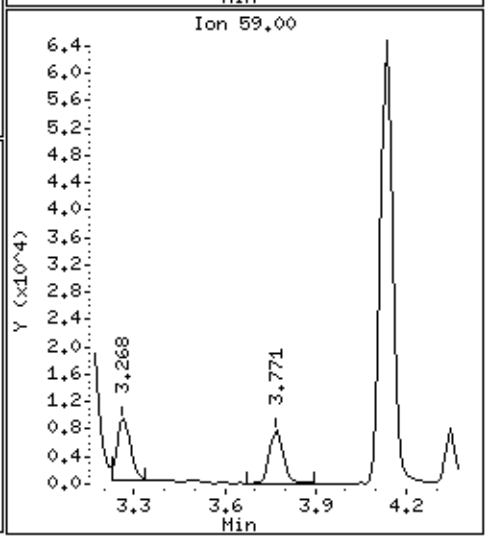












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

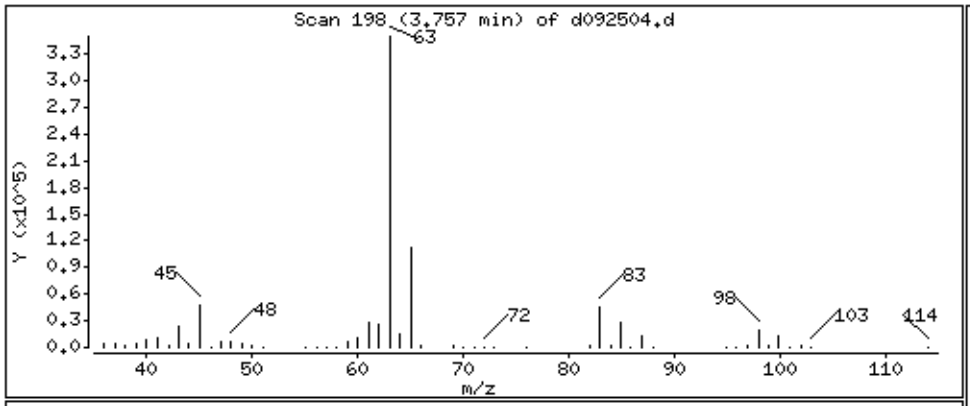
Operator: ccy

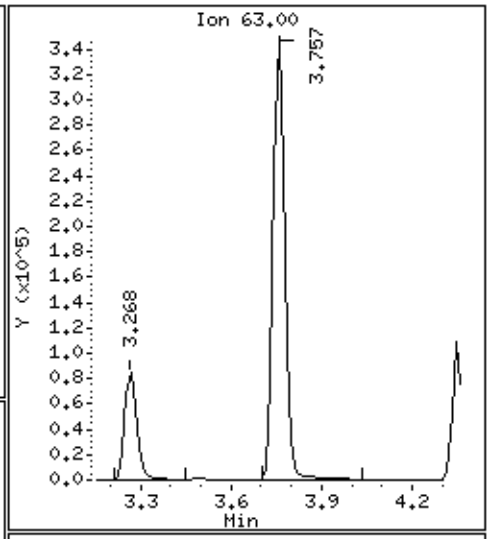
Column phase: RTx-624

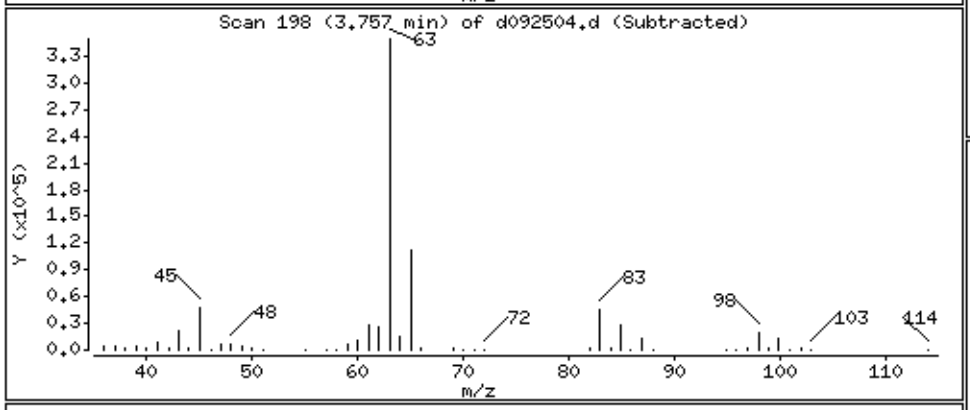
Column diameter: 0.53

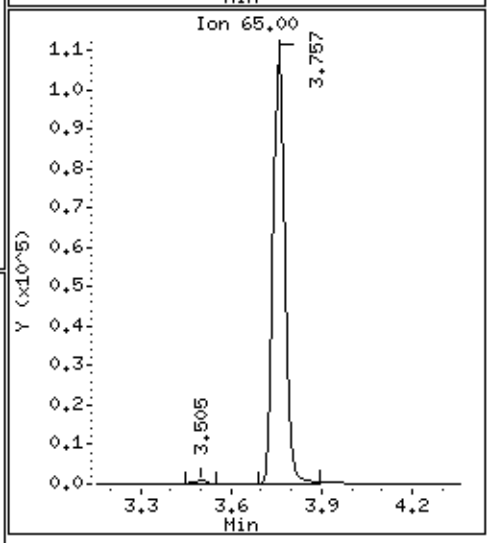
64 1,1-Dichloroethane

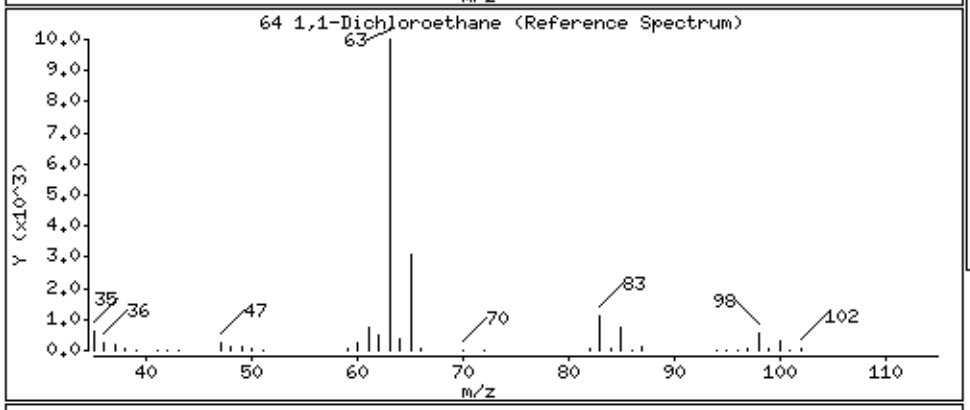
Concentration: 49.112 PPBV

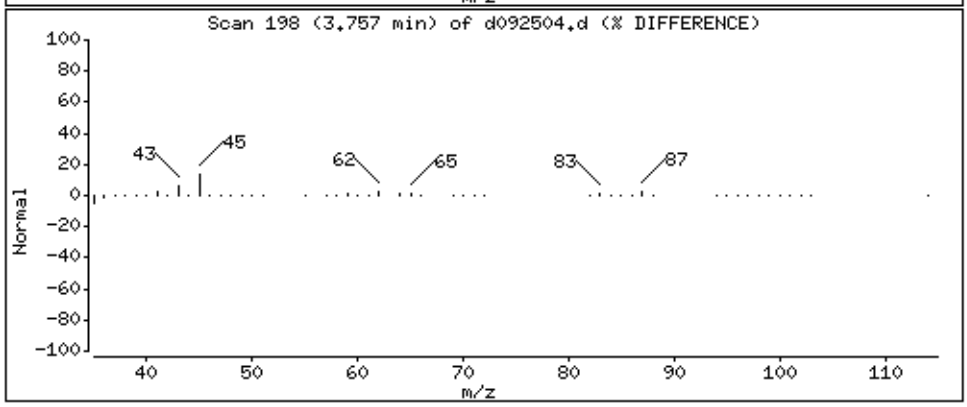












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

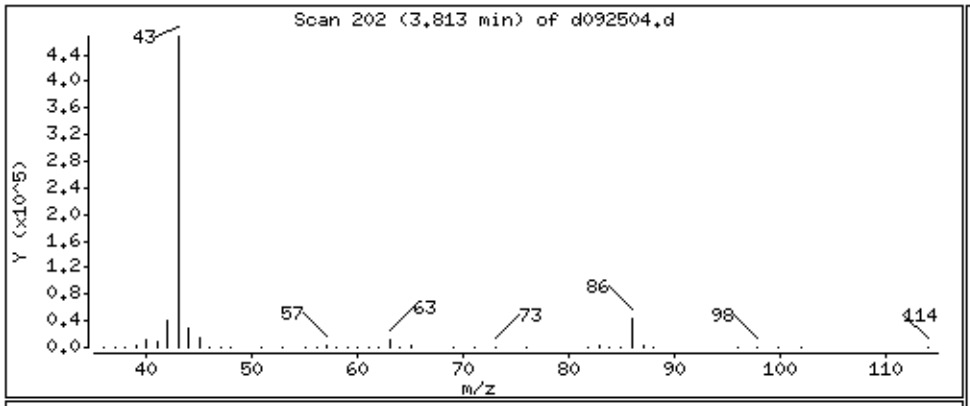
Operator: ccy

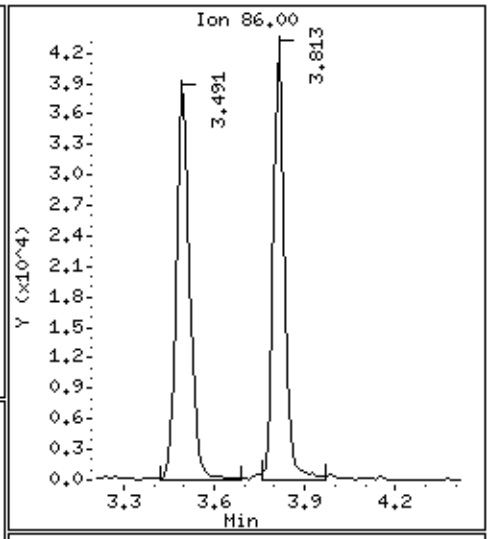
Column phase: RTx-624

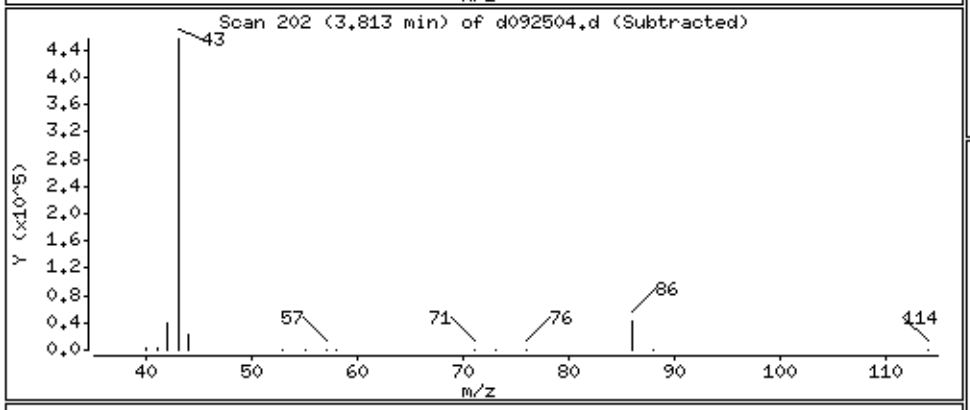
Column diameter: 0.53

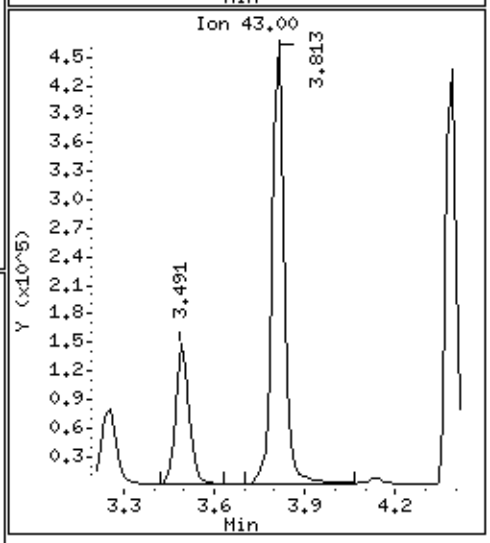
65 Vinyl Acetate

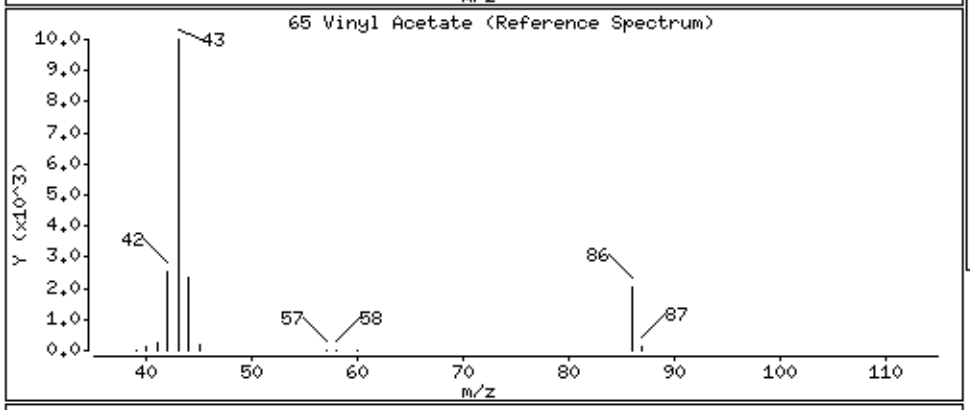
Concentration: 49.817 PPBV

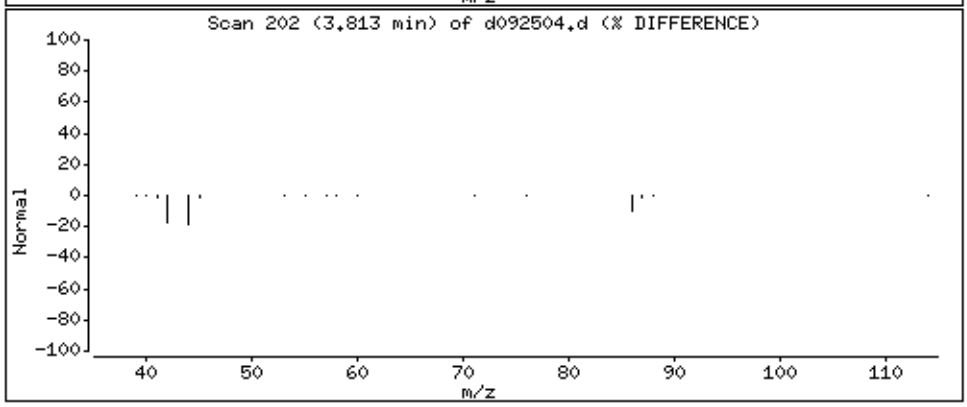












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

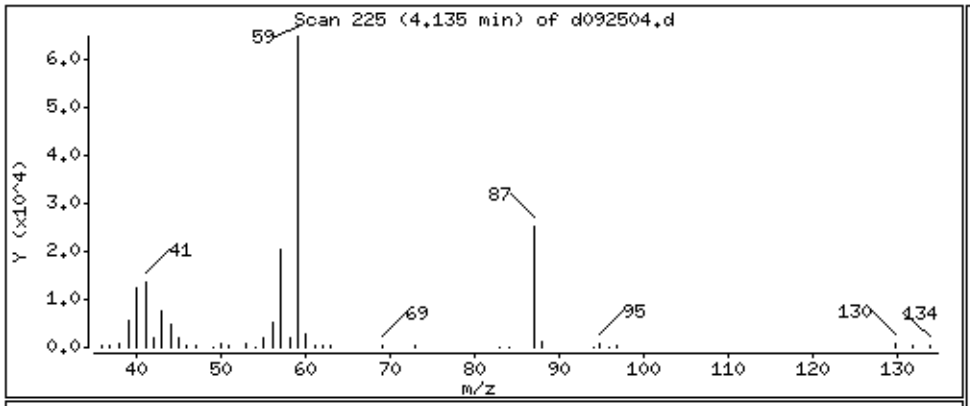
Operator: ccy

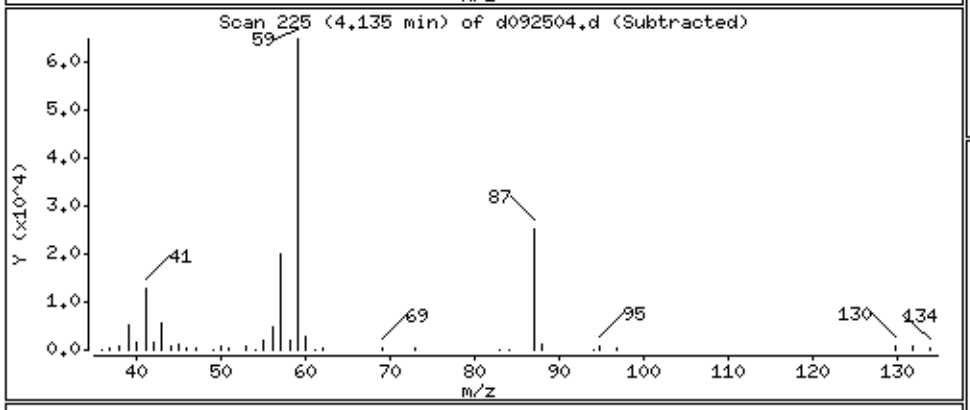
Column phase: RTx-624

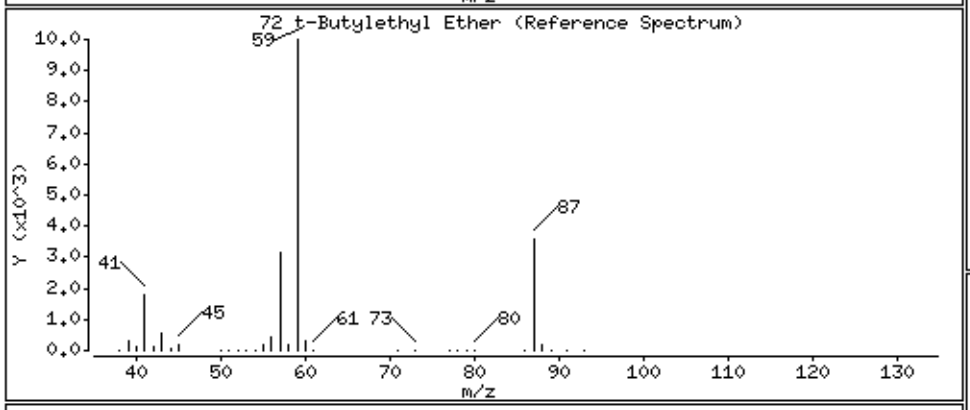
Column diameter: 0.53

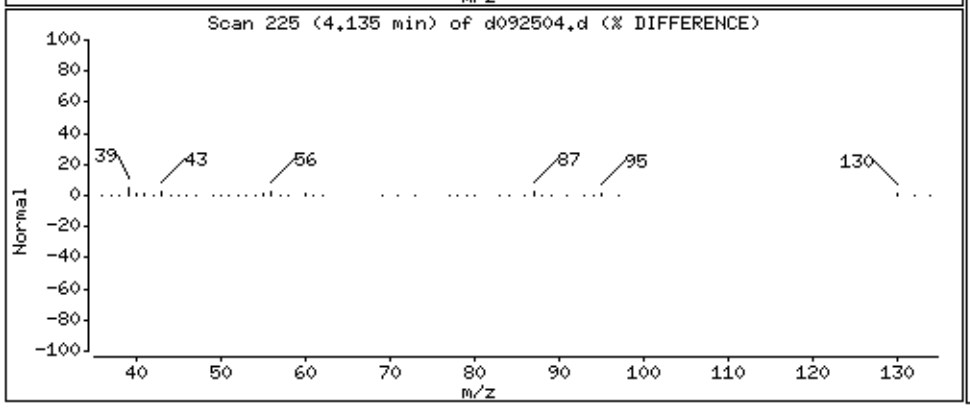
72 t-Butylethyl Ether

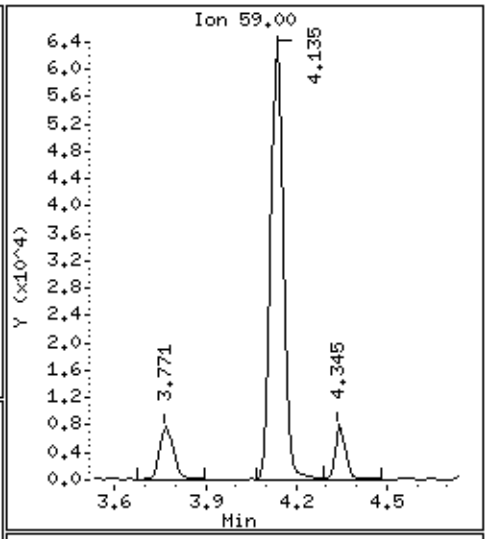
Concentration: 5.413 PPBV

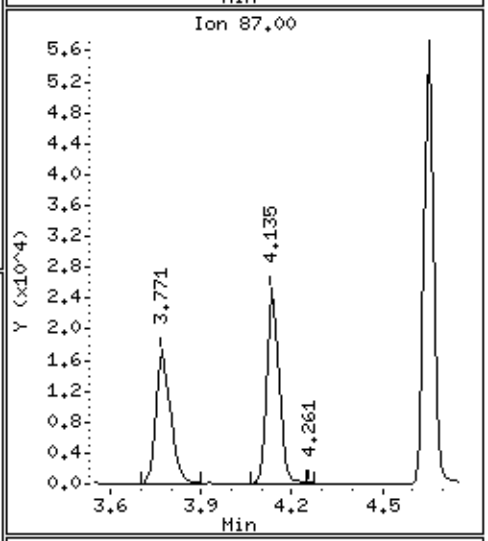


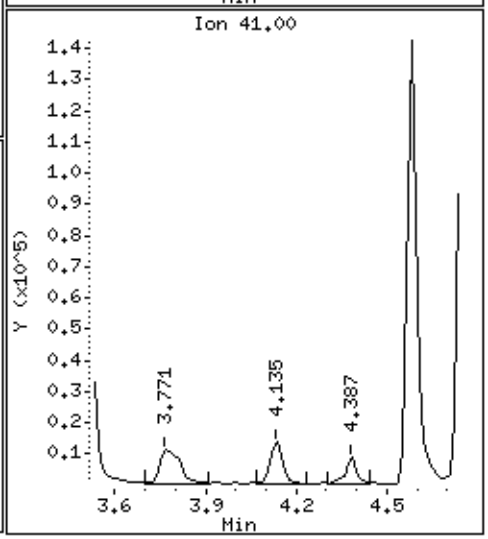












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

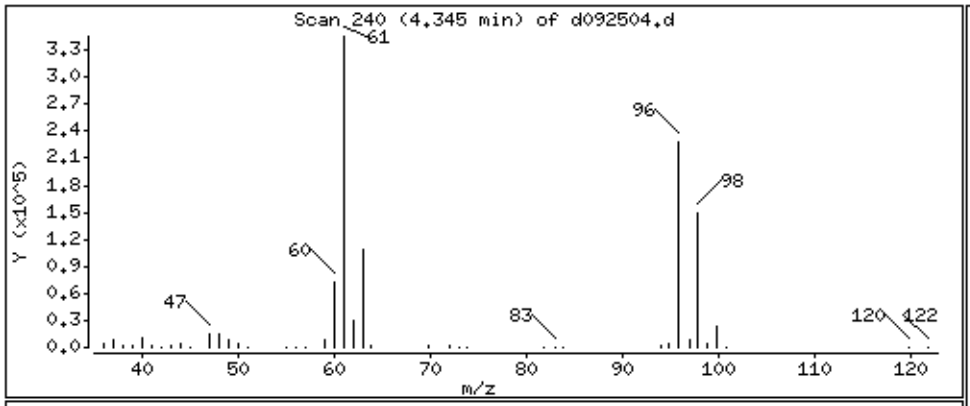
Operator: ccy

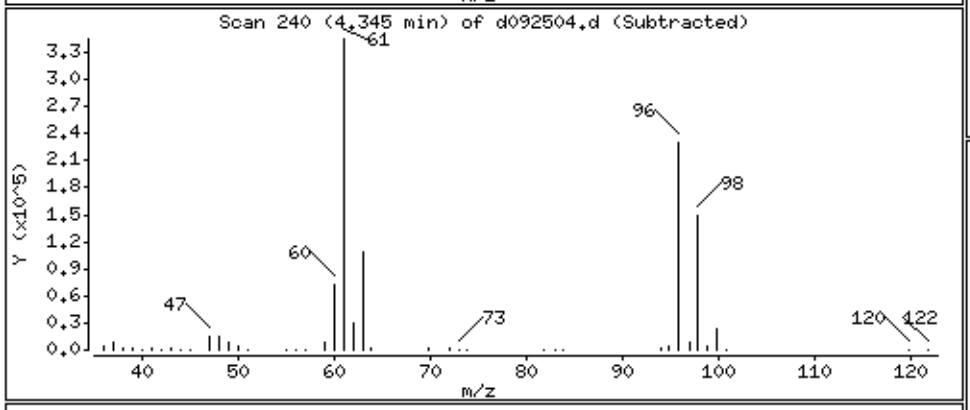
Column phase: RTx-624

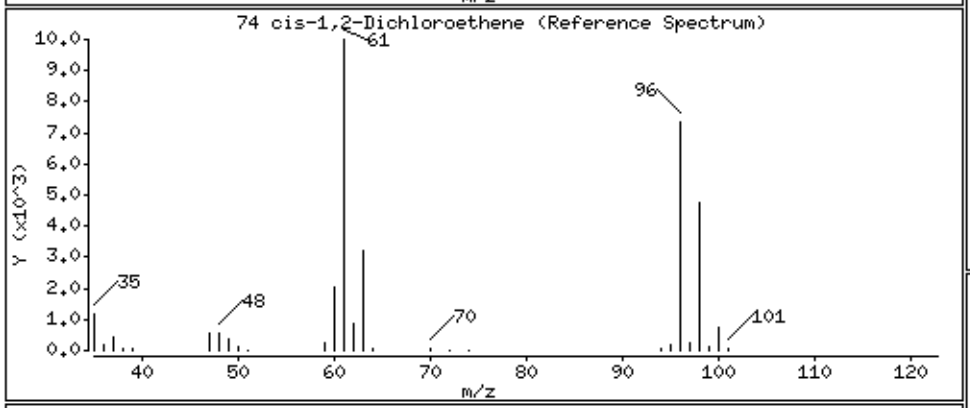
Column diameter: 0.53

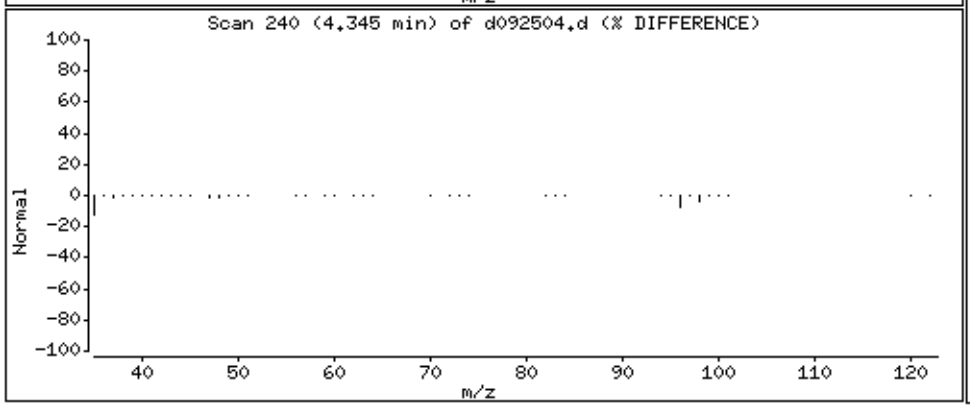
74 cis-1,2-Dichloroethene

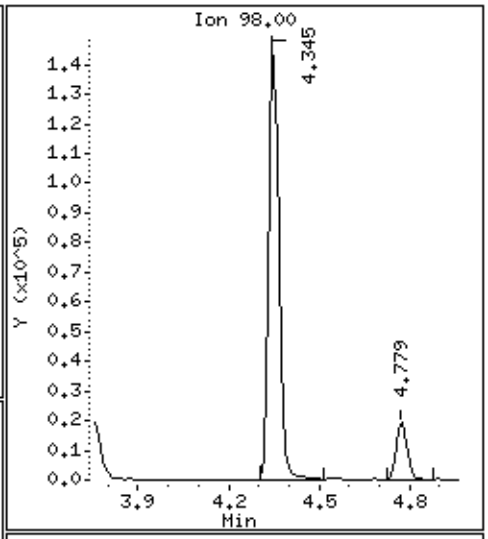
Concentration: 50.439 PPBV

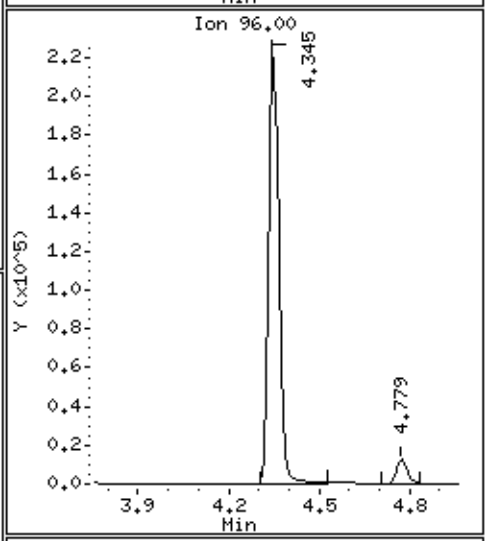


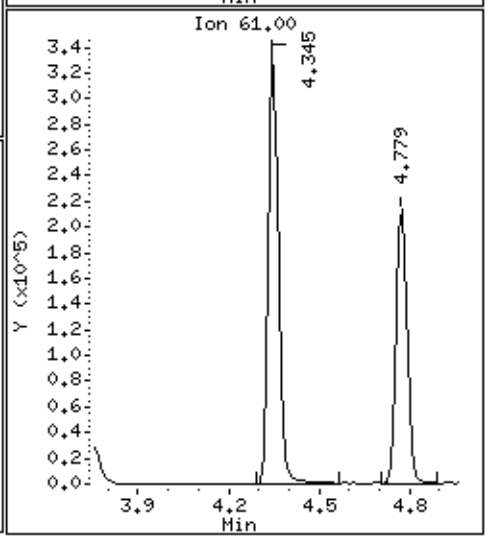












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

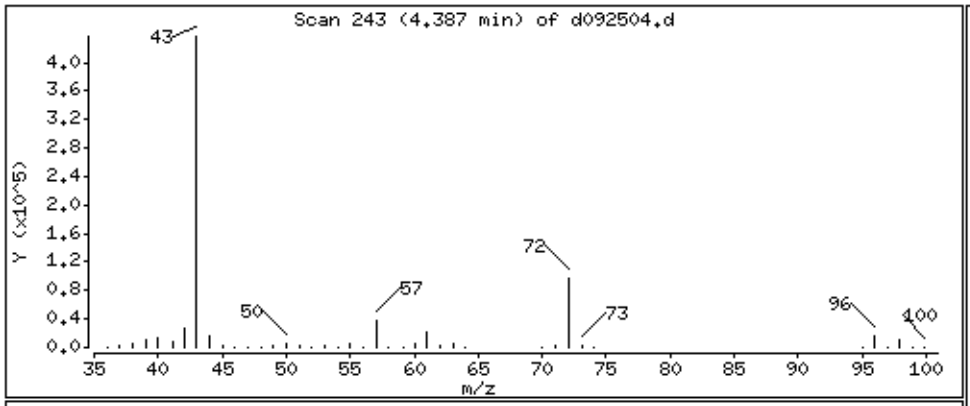
Operator: ccy

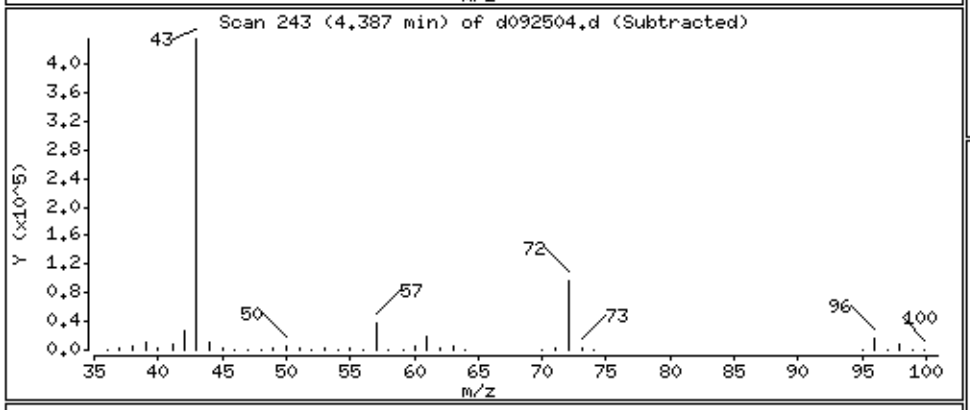
Column phase: RTx-624

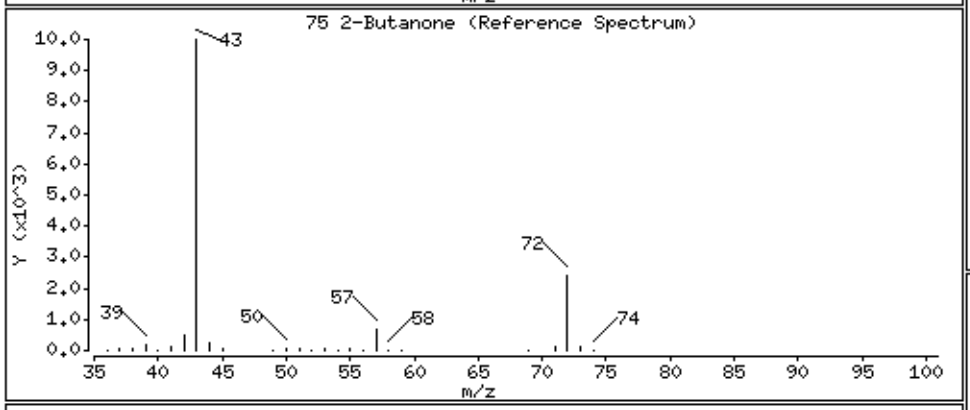
Column diameter: 0.53

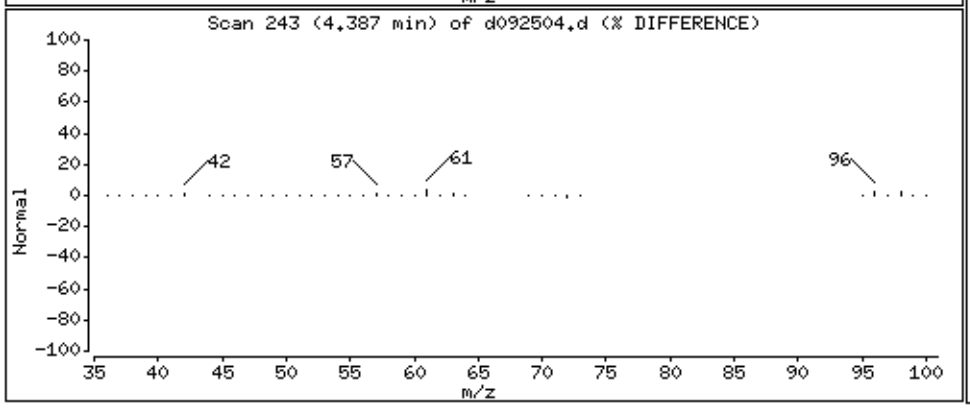
75 2-Butanone

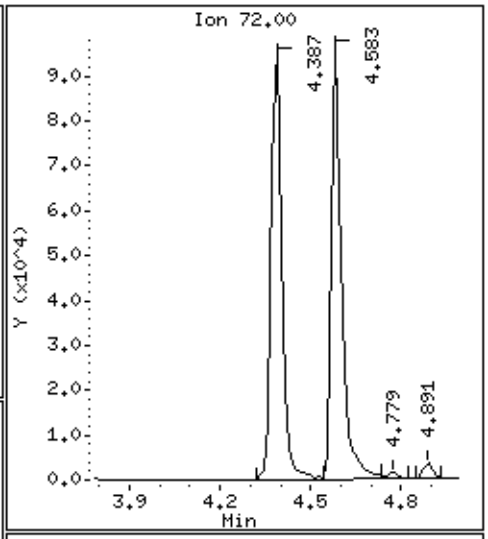
Concentration: 51.724 PPBV

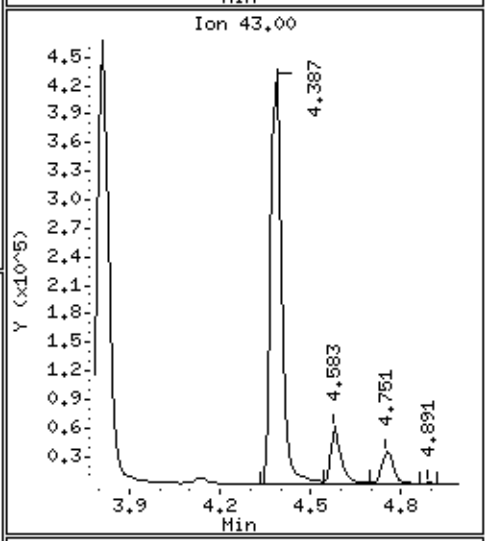


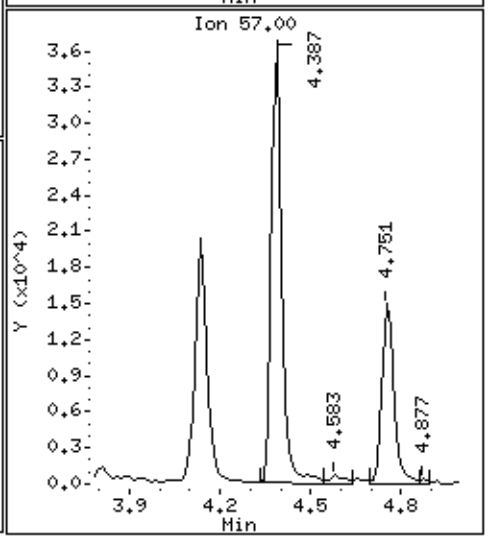












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

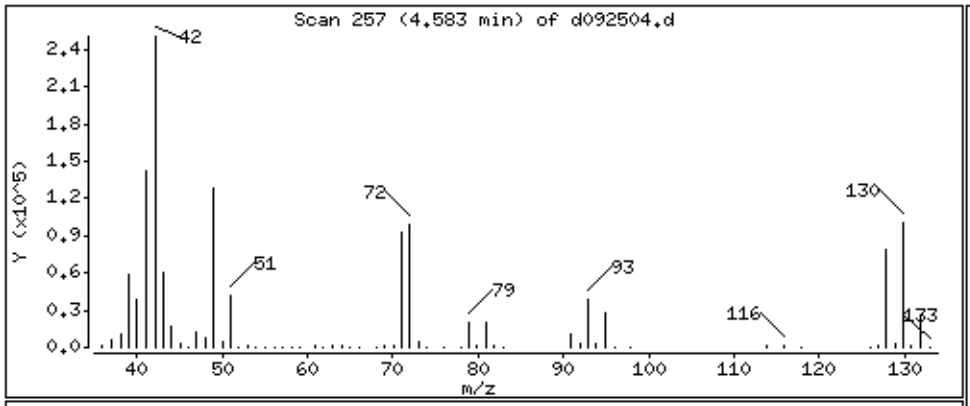
Operator: ccy

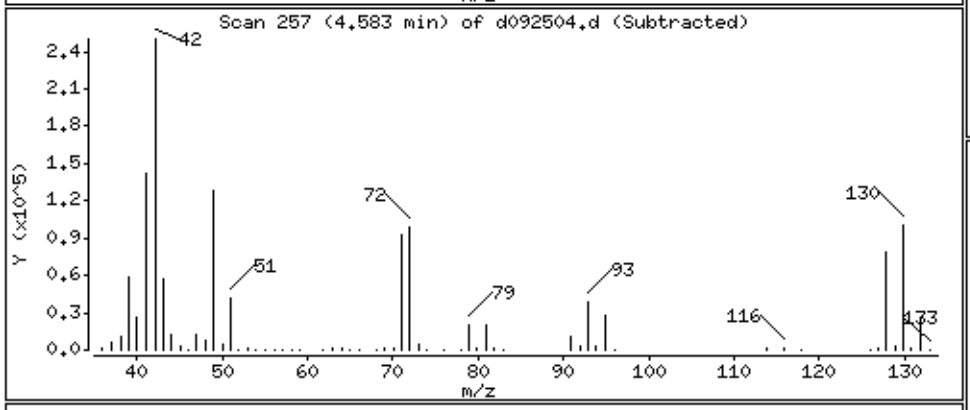
Column phase: RTx-624

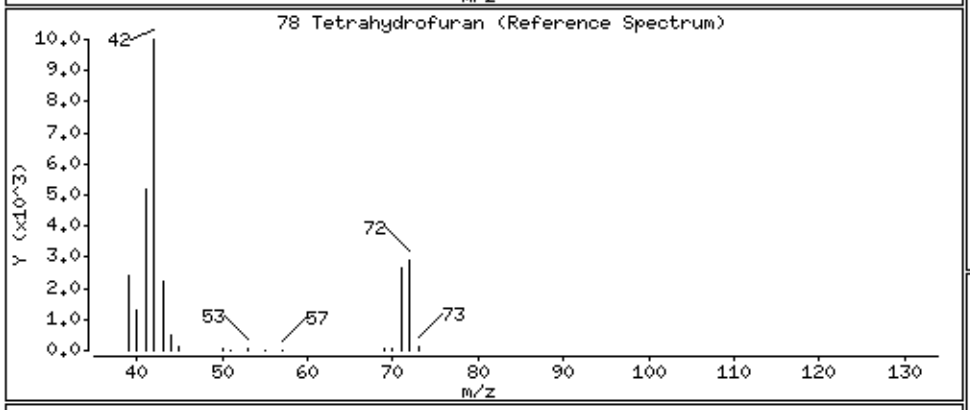
Column diameter: 0.53

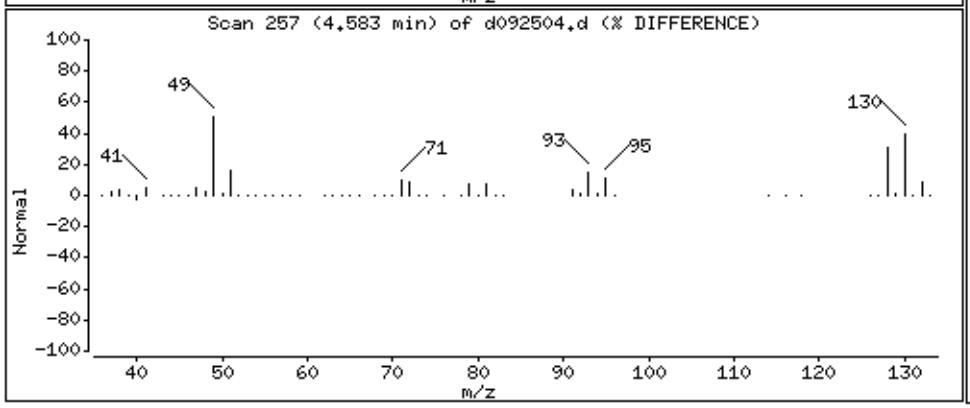
78 Tetrahydrofuran

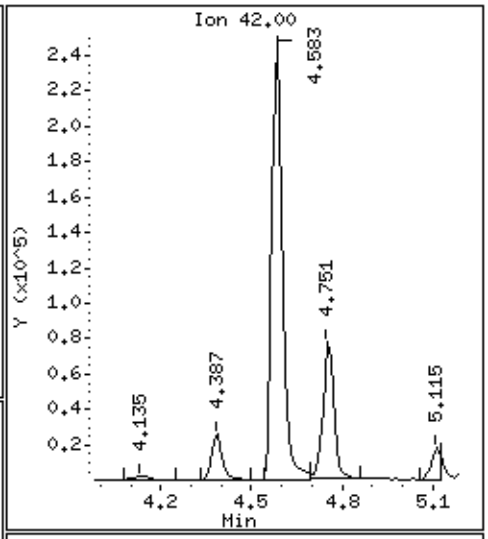
Concentration: 50.249 PPBV

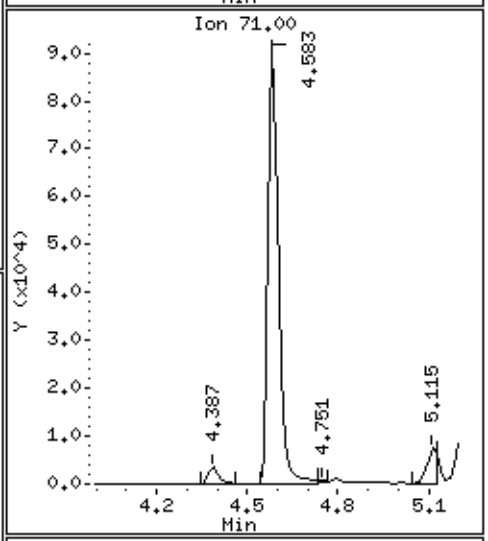


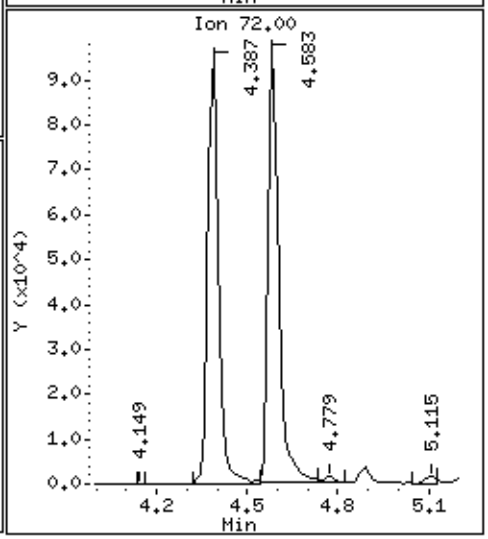












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

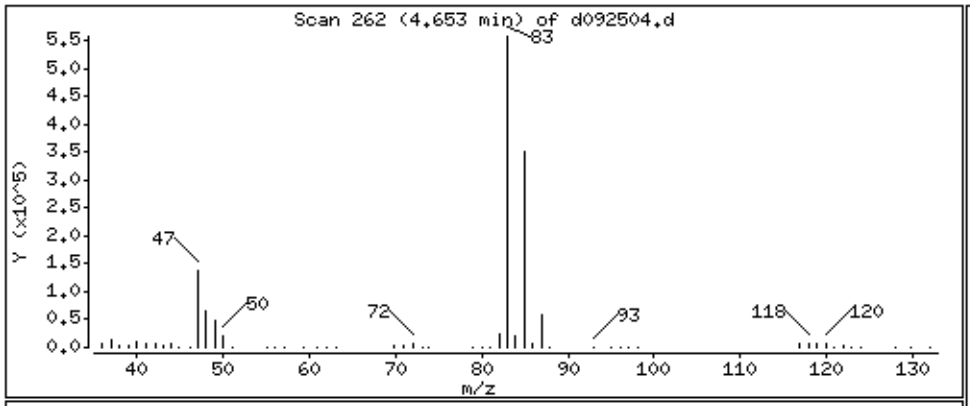
Operator: ccy

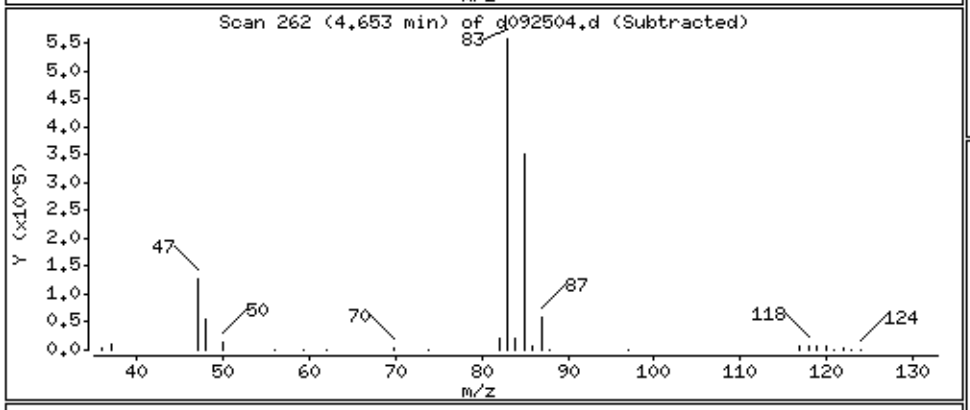
Column phase: RTx-624

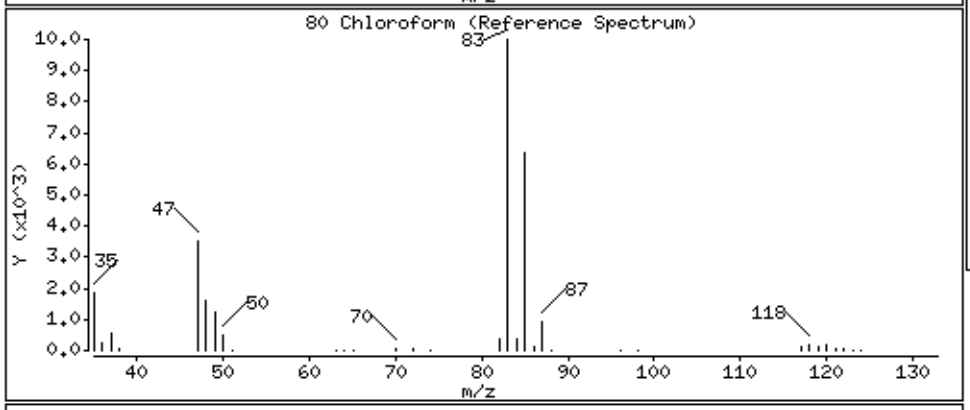
Column diameter: 0.53

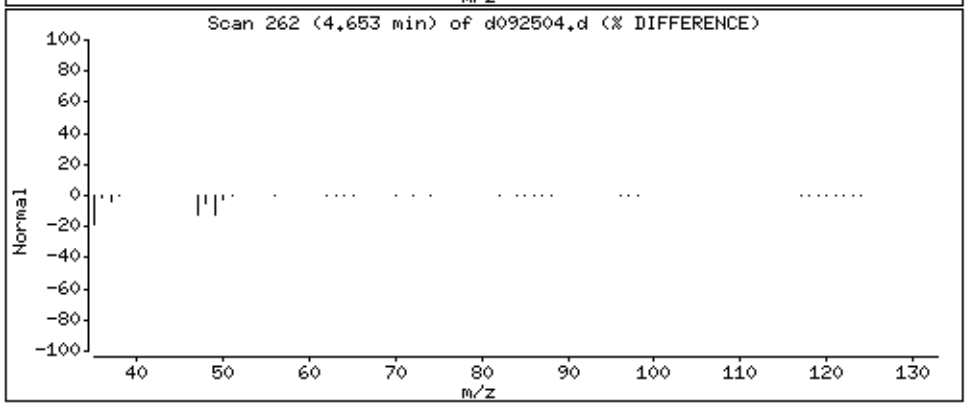
80 Chloroform

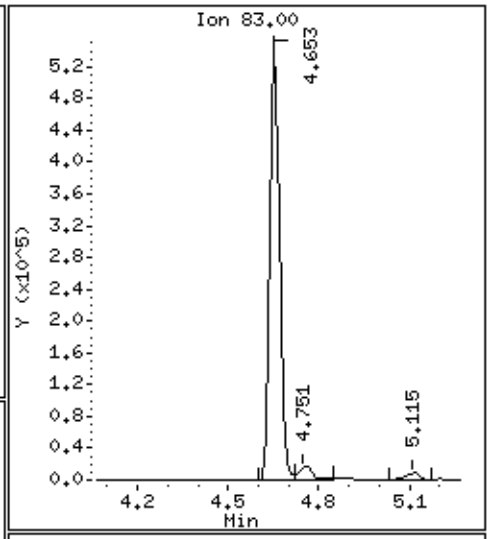
Concentration: 50.850 PPBV

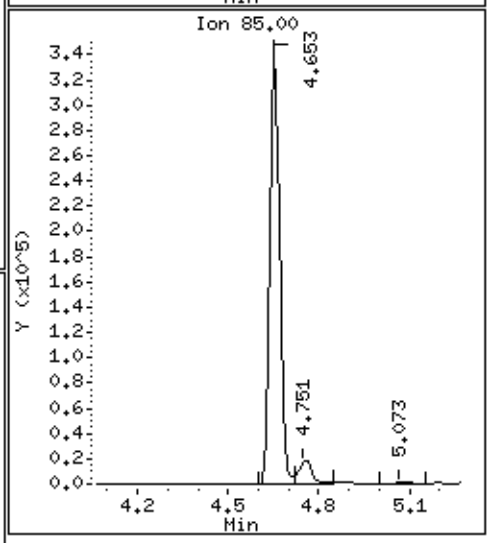












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

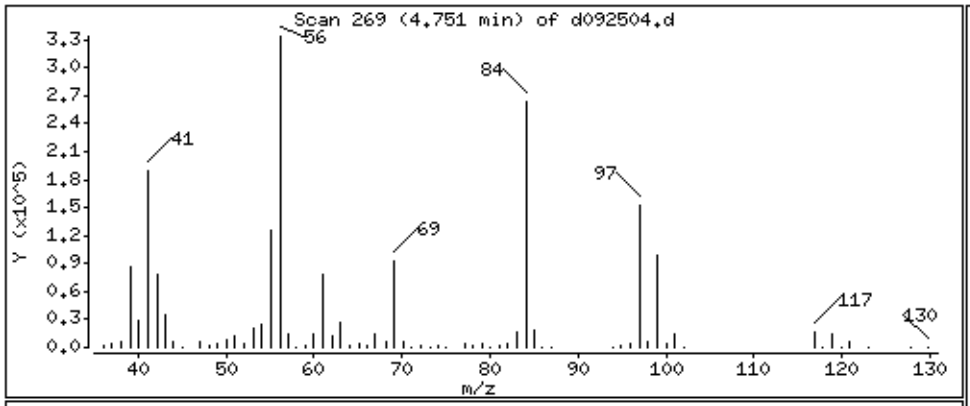
Operator: ccy

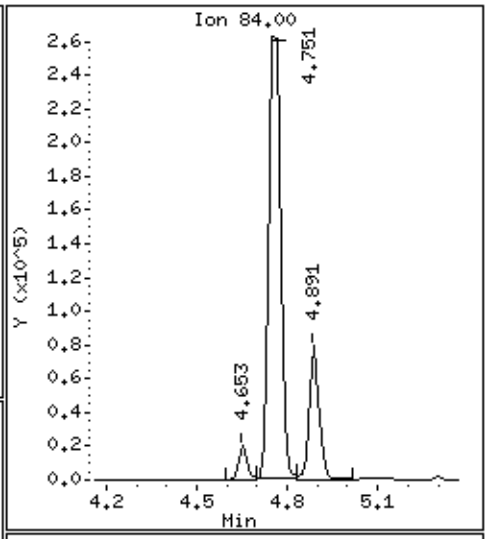
Column phase: RTx-624

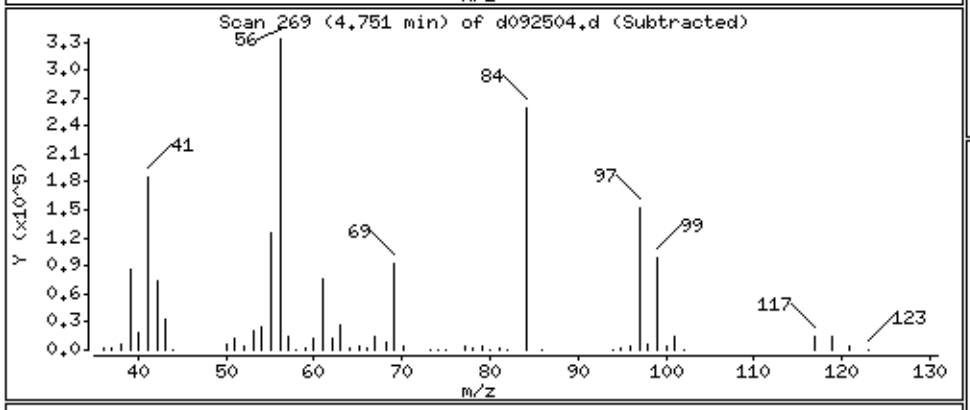
Column diameter: 0.53

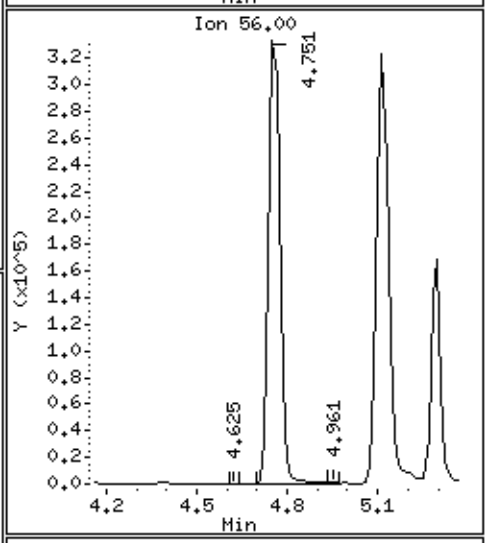
83 Cyclohexane

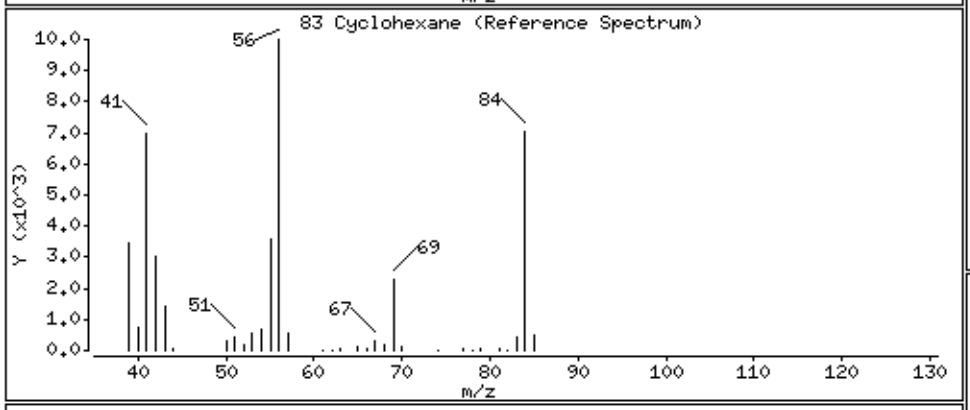
Concentration: 50.046 PPBV

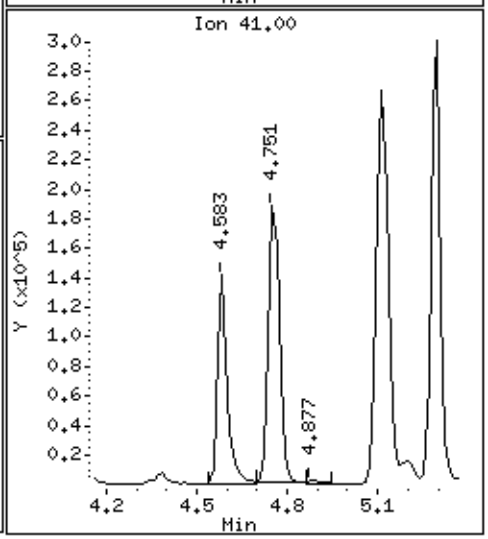


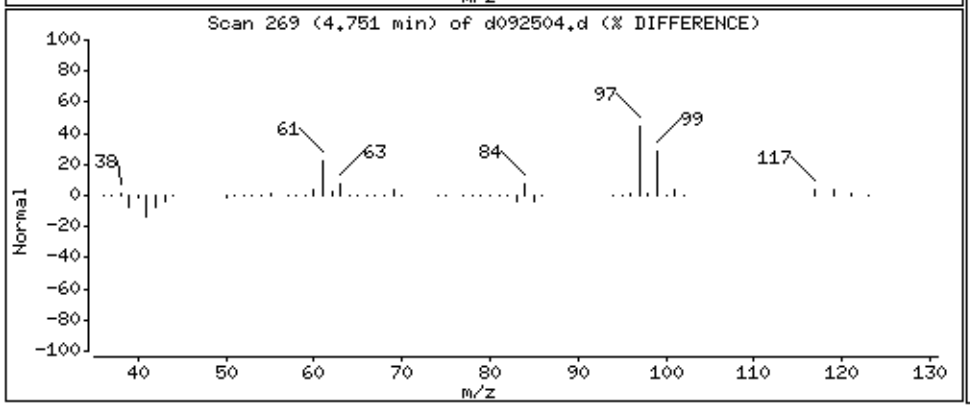












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

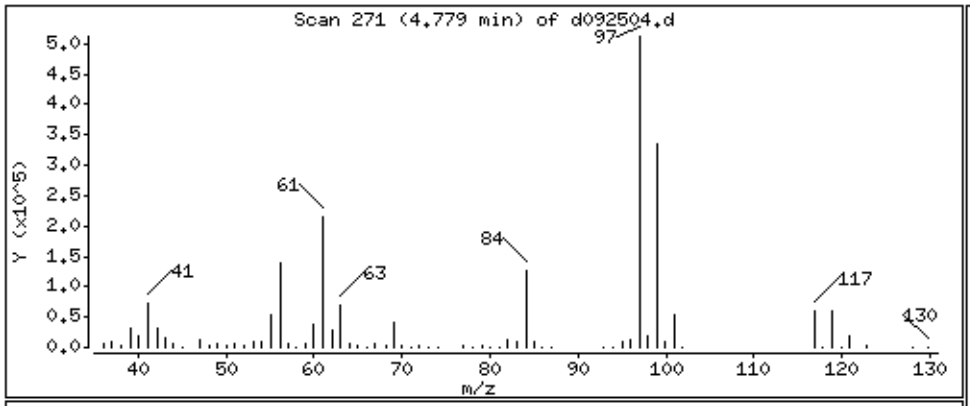
Operator: ccy

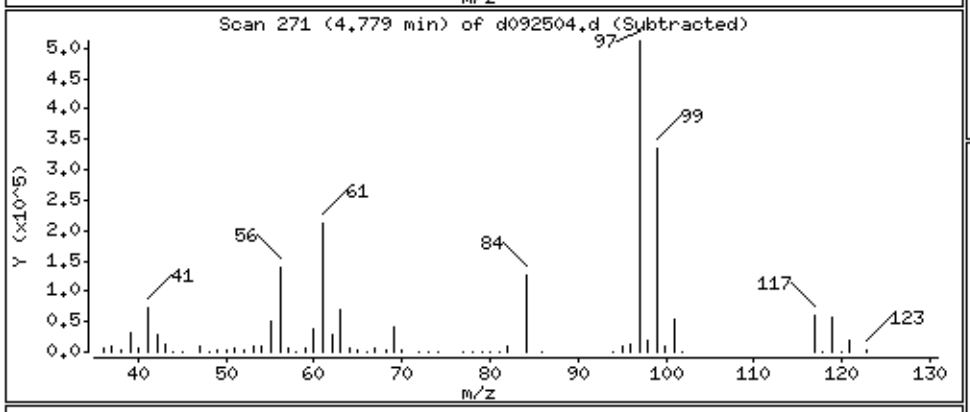
Column phase: RTx-624

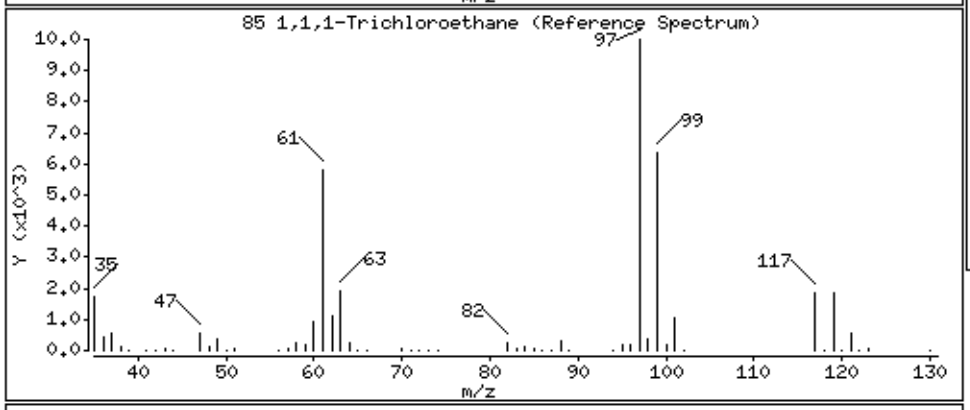
Column diameter: 0.53

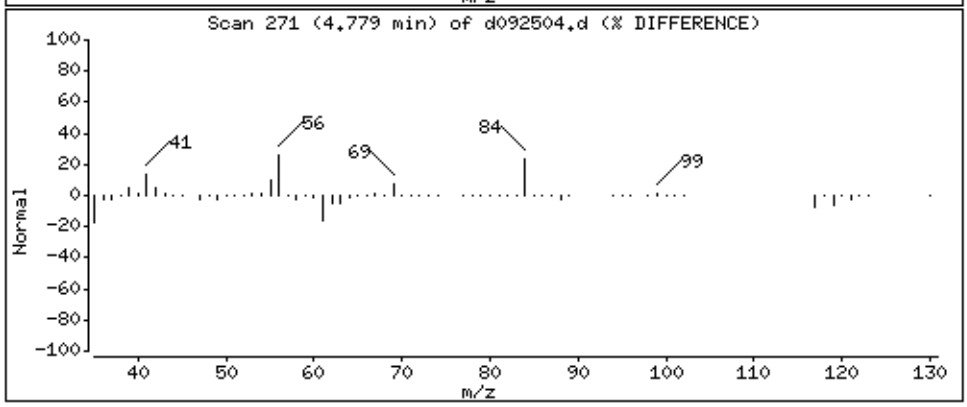
85 1,1,1-Trichloroethane

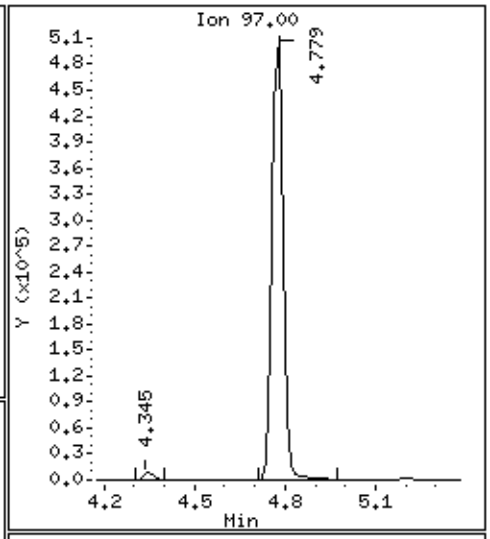
Concentration: 52.402 PPBV

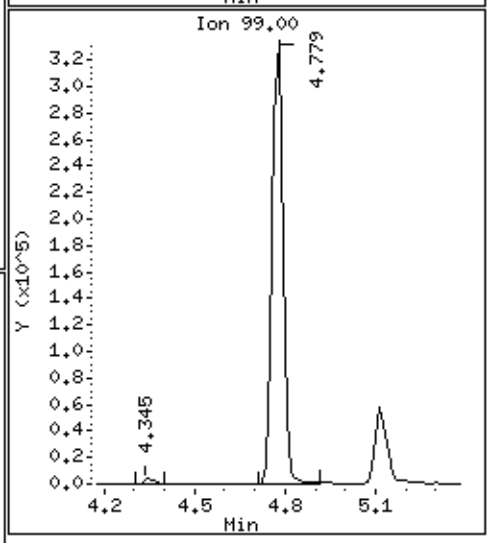












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

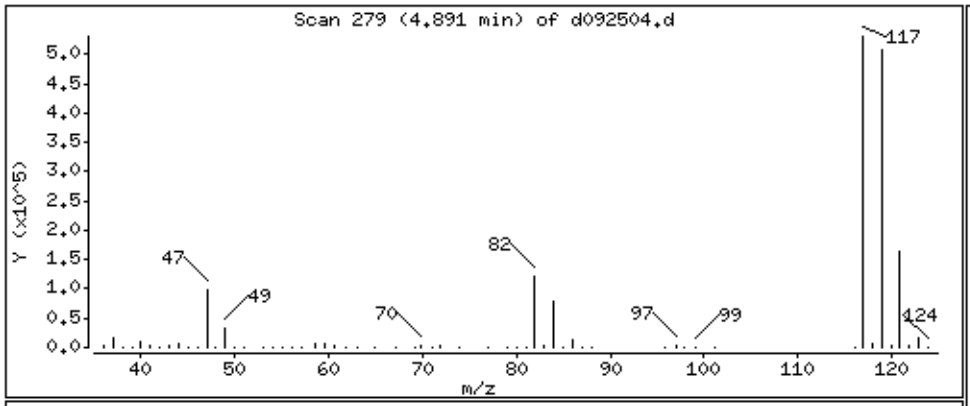
Operator: ccy

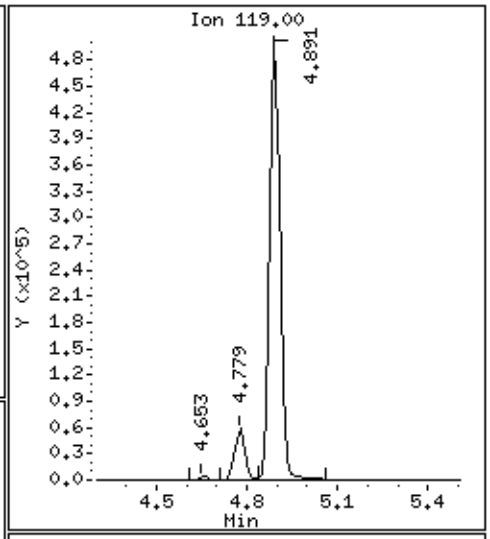
Column phase: RTx-624

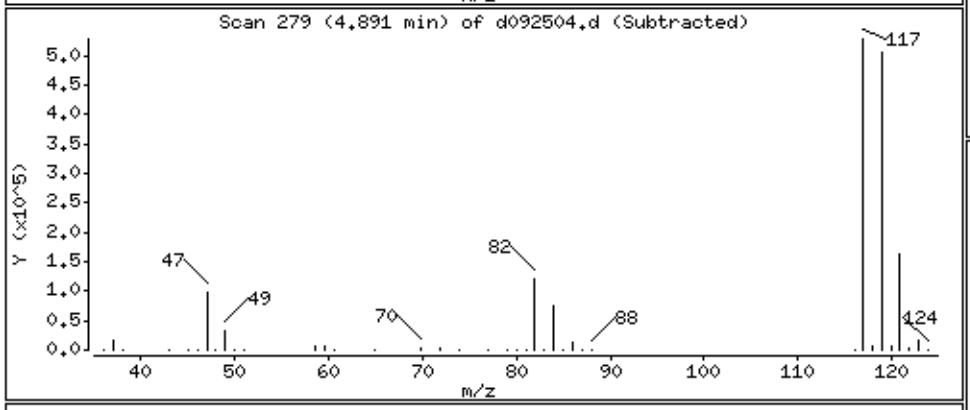
Column diameter: 0.53

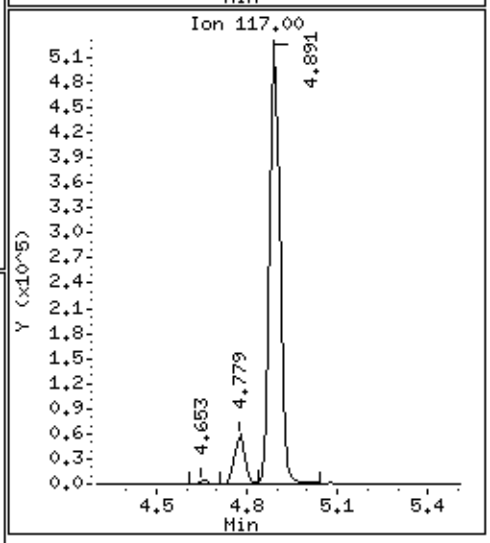
86 Carbon Tetrachloride

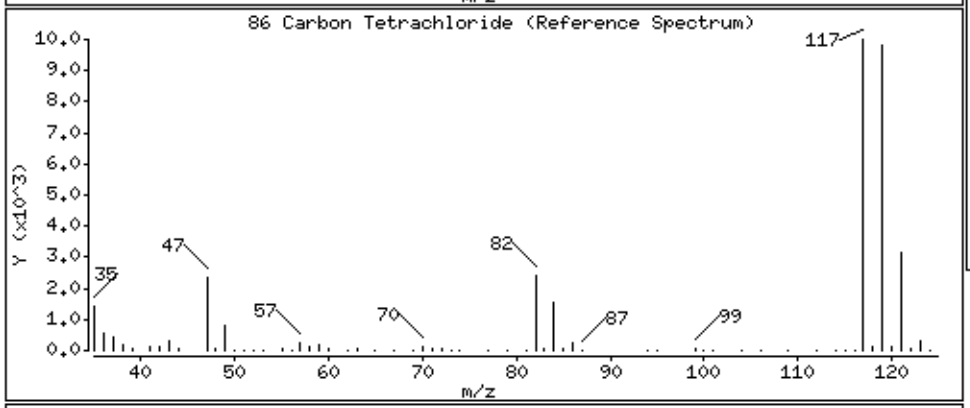
Concentration: 55.810 PPBV

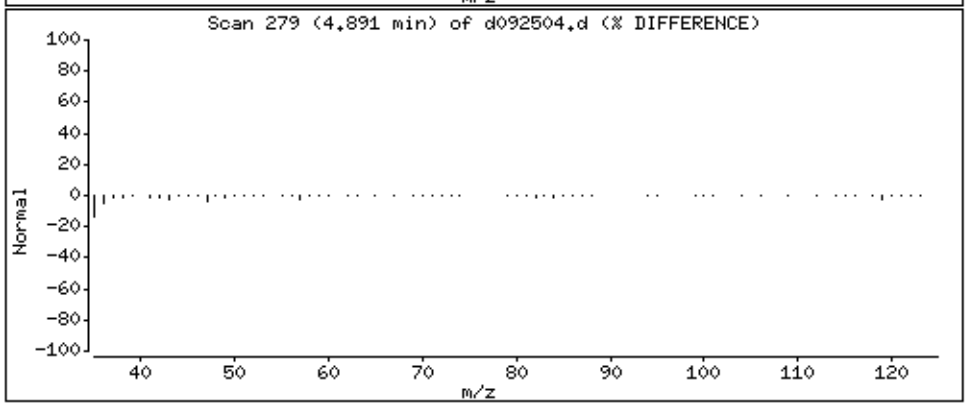












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

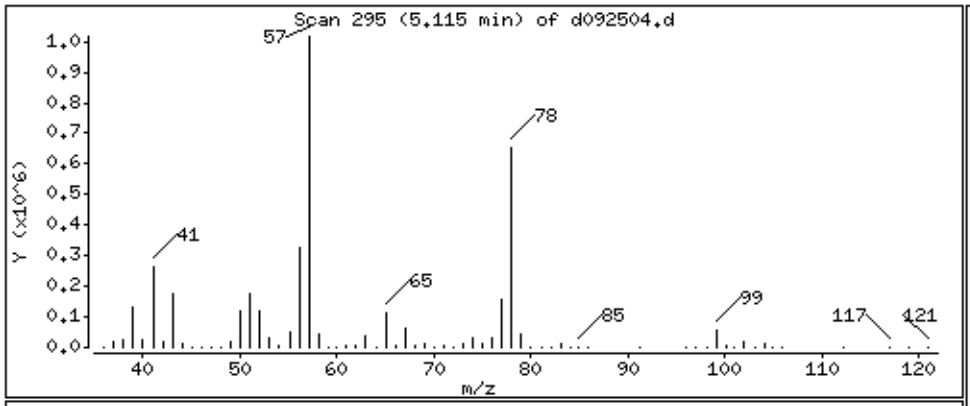
Operator: ccy

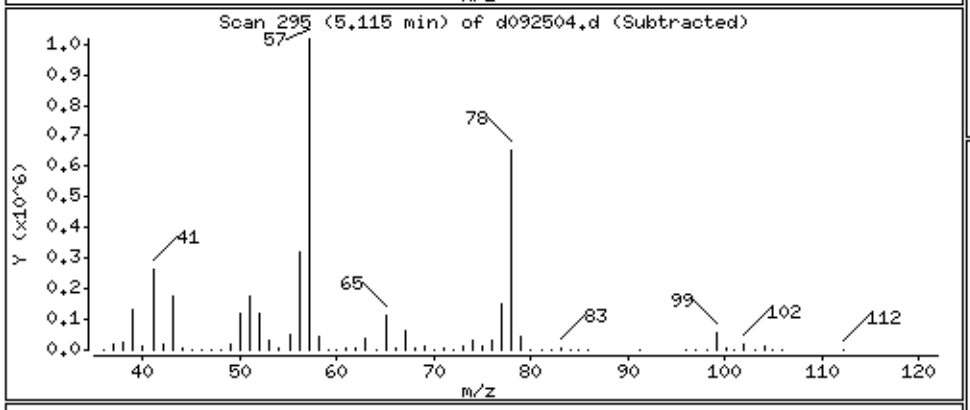
Column phase: RTx-624

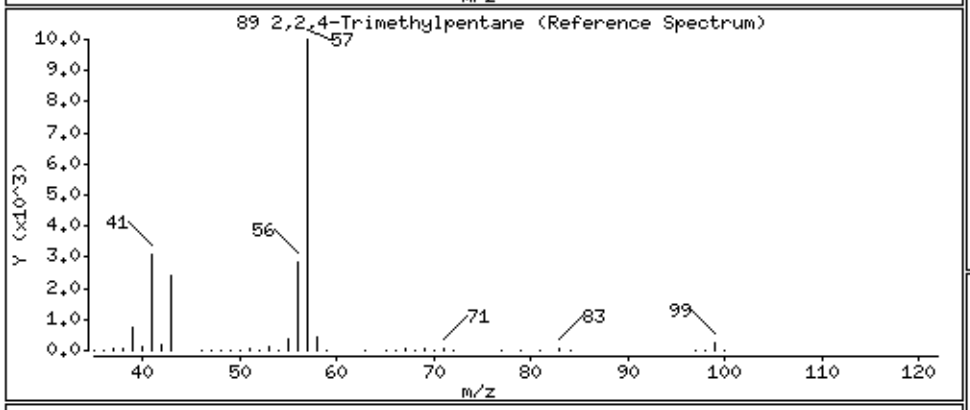
Column diameter: 0.53

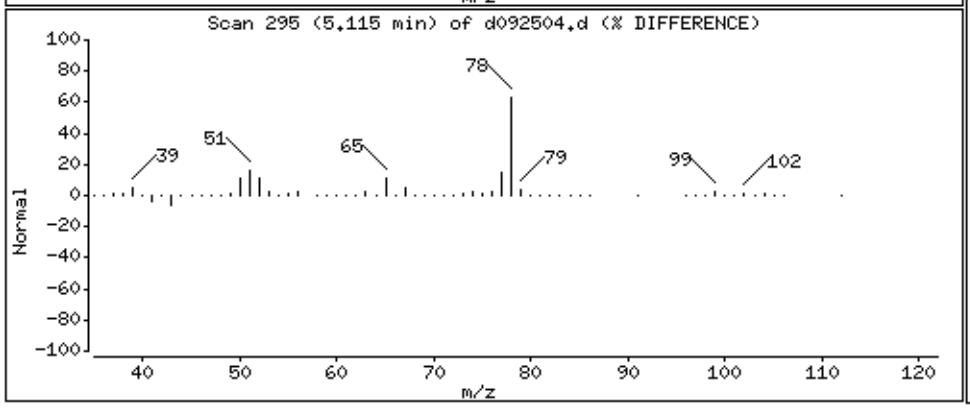
89 2,2,4-Trimethylpentane

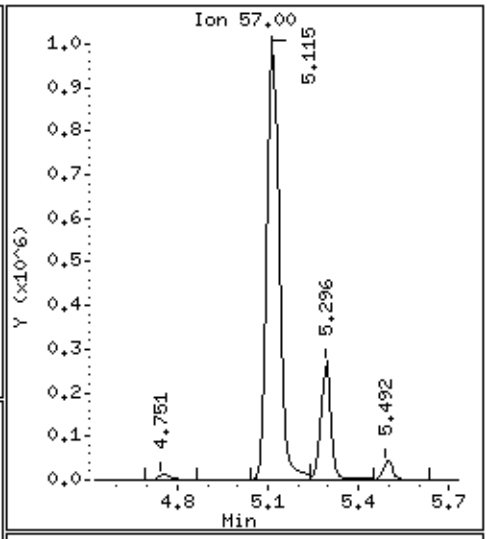
Concentration: 51.407 PPBV

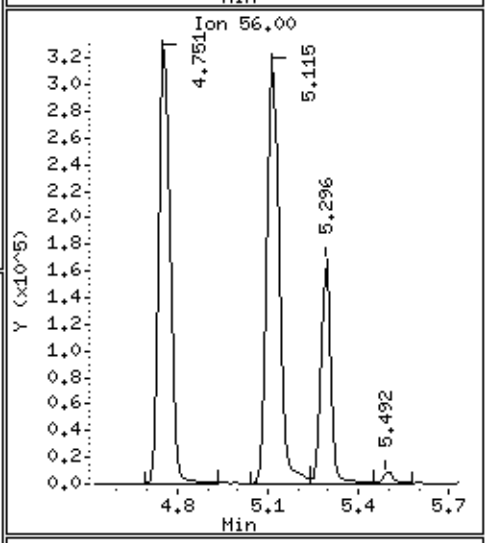


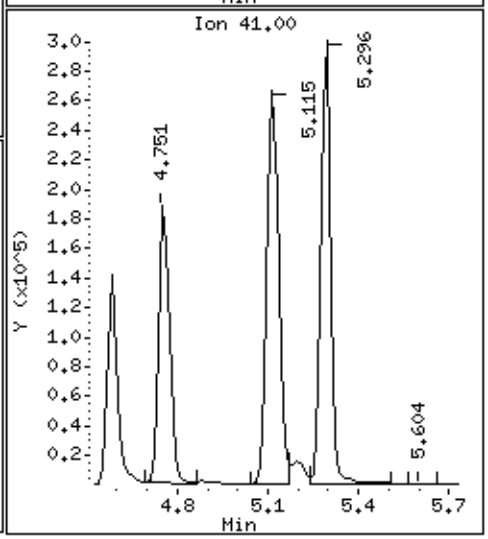












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

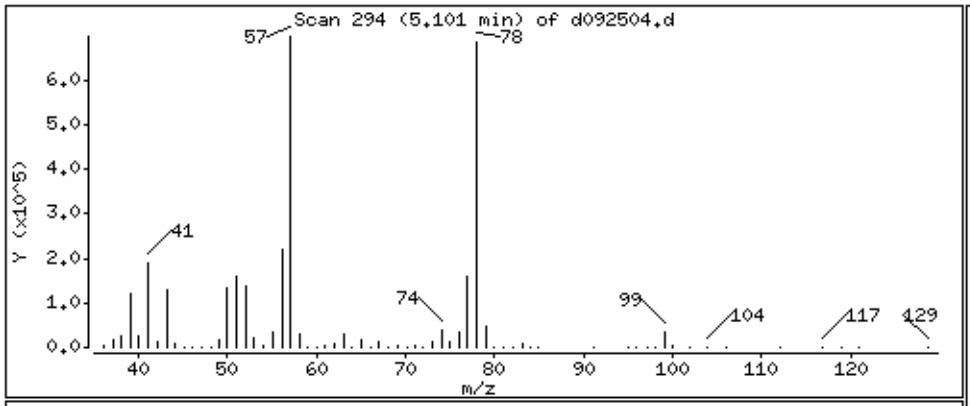
Operator: ccy

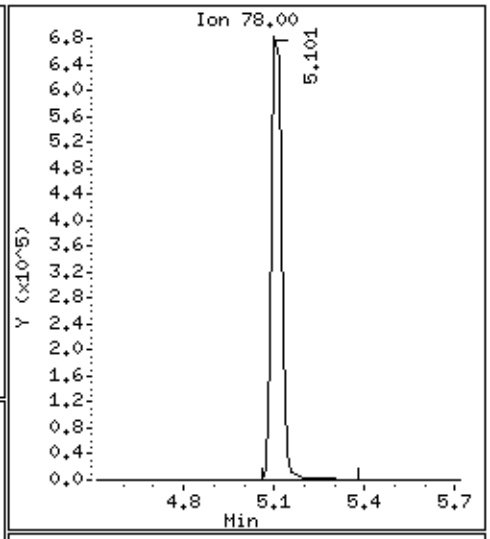
Column phase: RTx-624

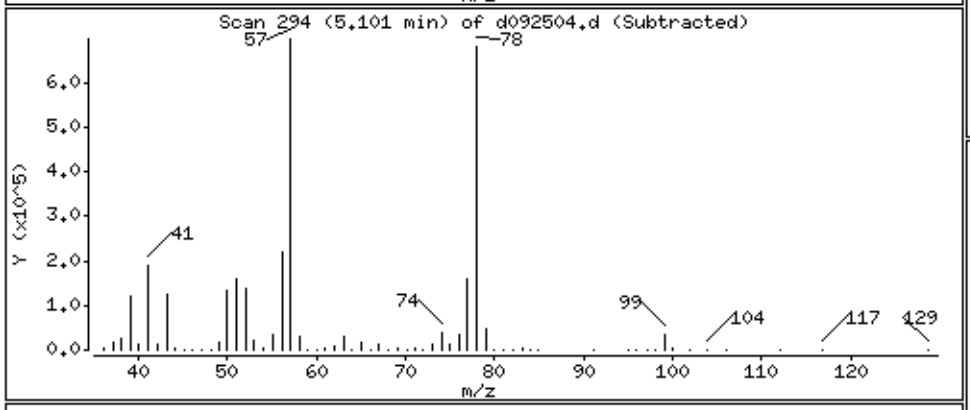
Column diameter: 0.53

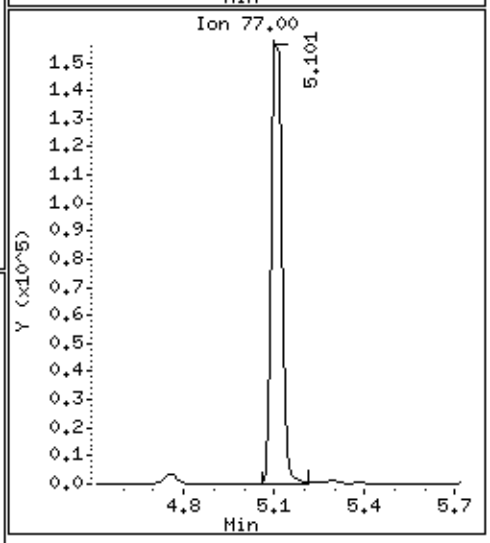
90 Benzene

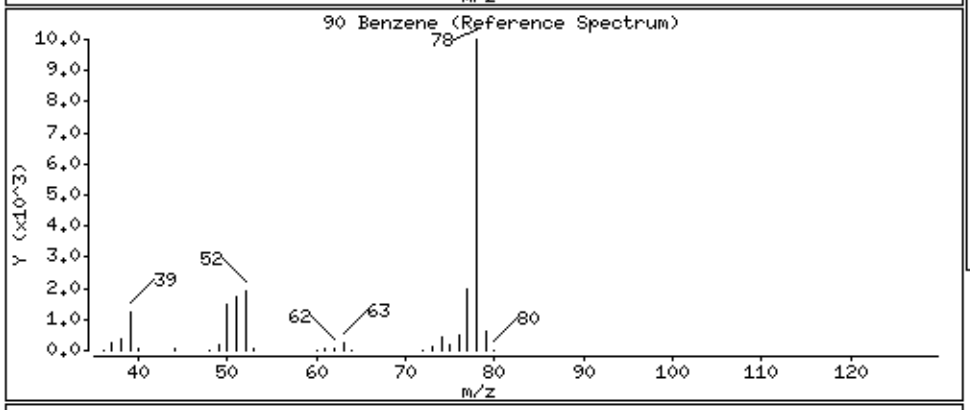
Concentration: 49.153 PPBV

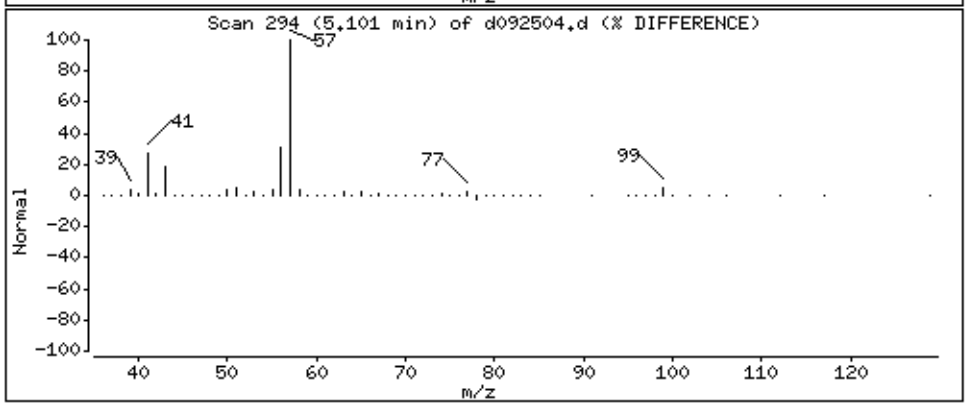












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

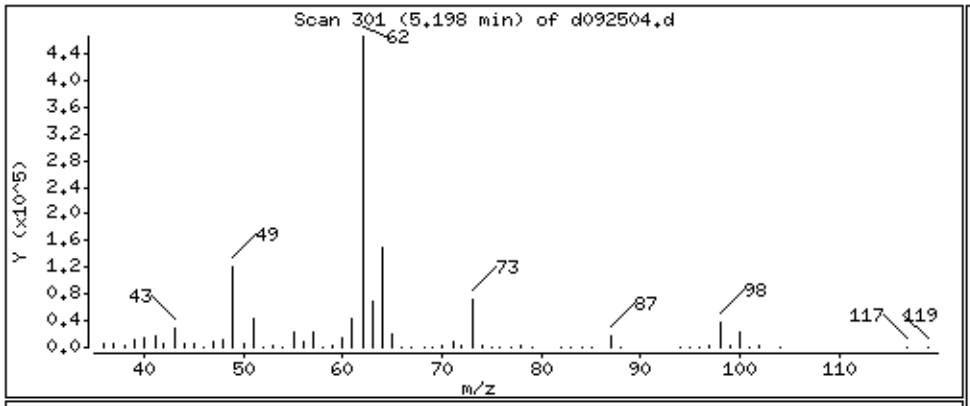
Operator: ccy

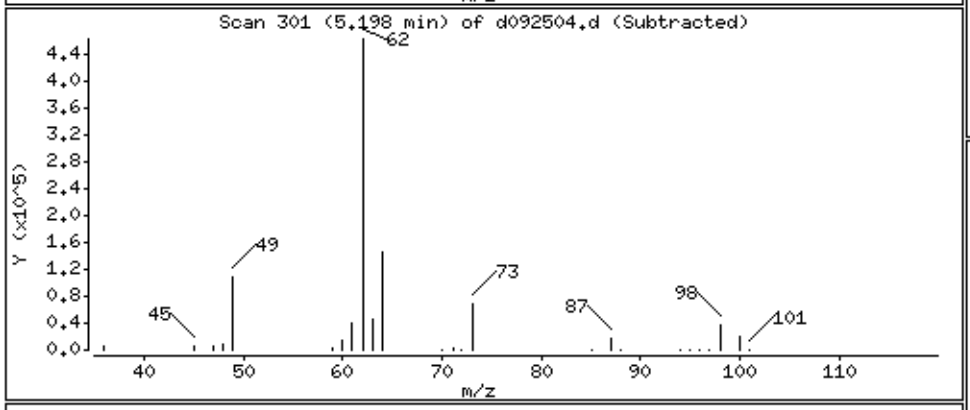
Column phase: RTx-624

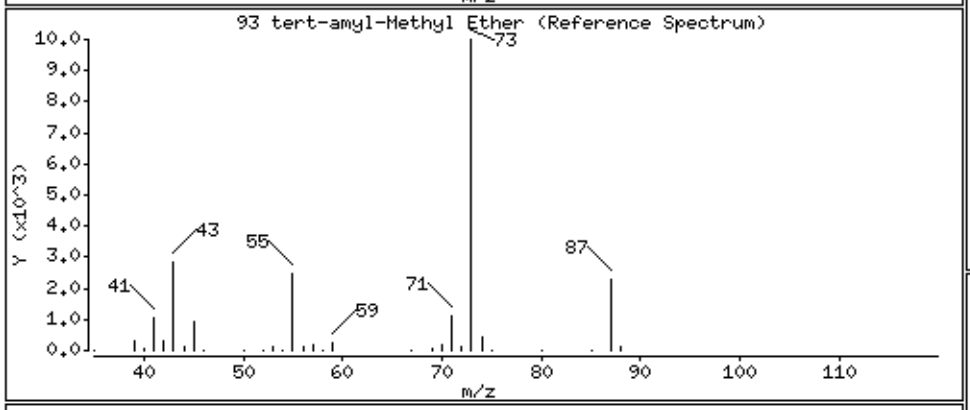
Column diameter: 0.53

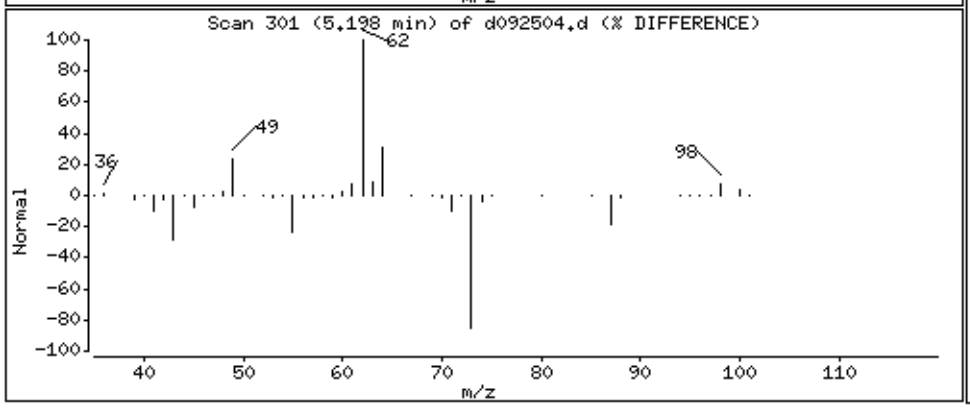
93 tert-amyl-Methyl Ether

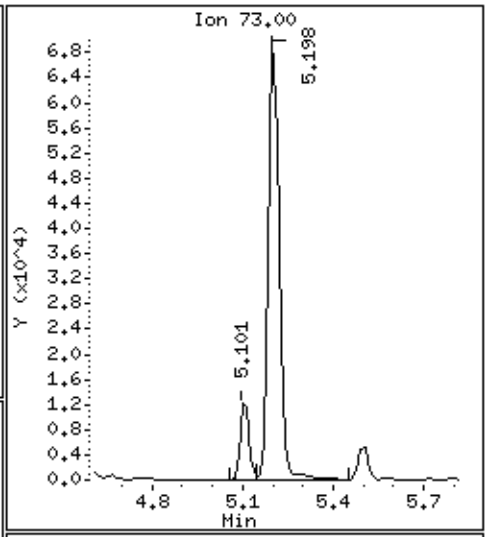
Concentration: 5.382 PPBV

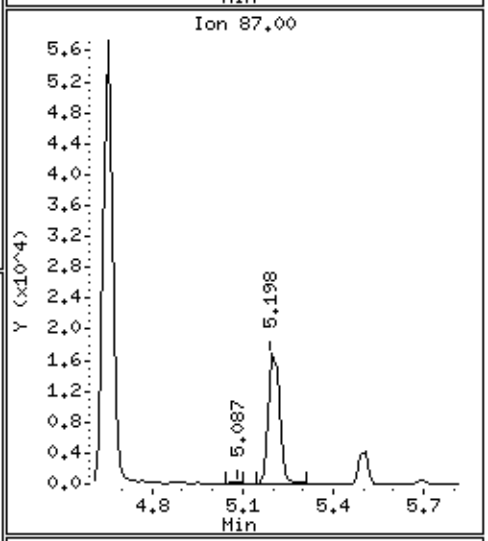


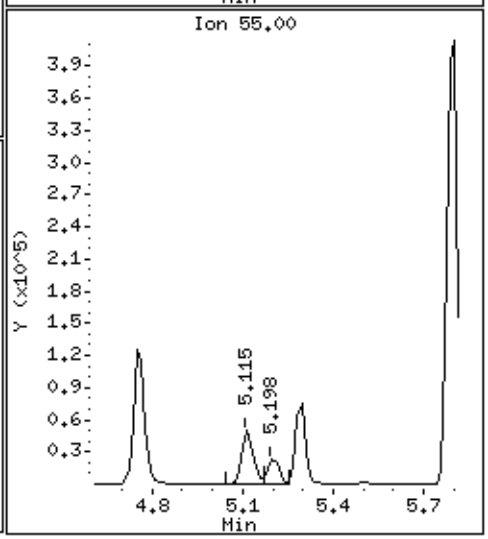












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

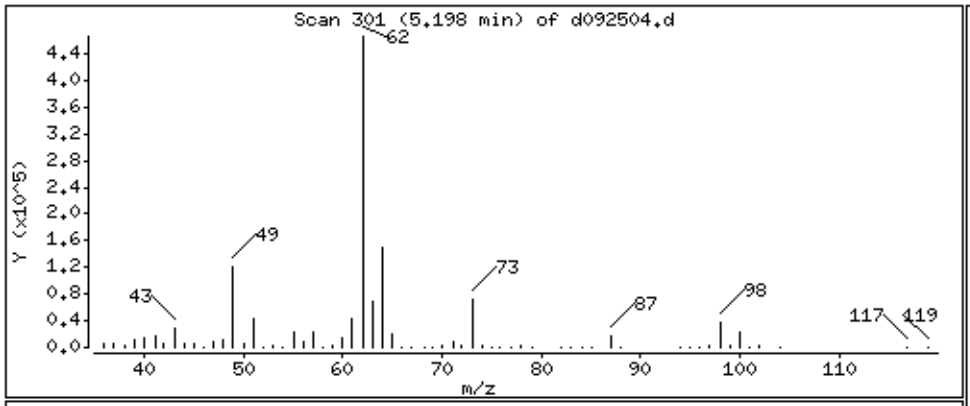
Operator: ccy

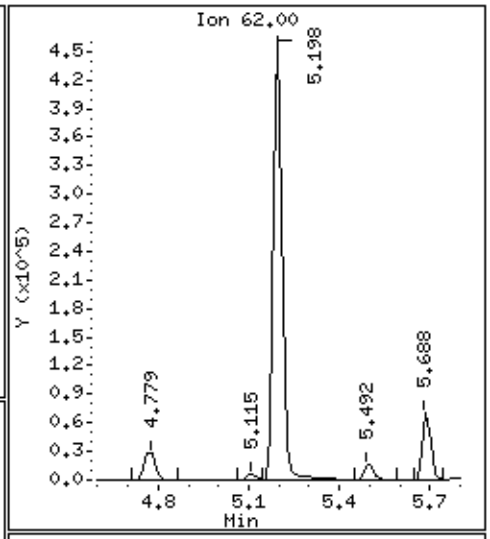
Column phase: RTx-624

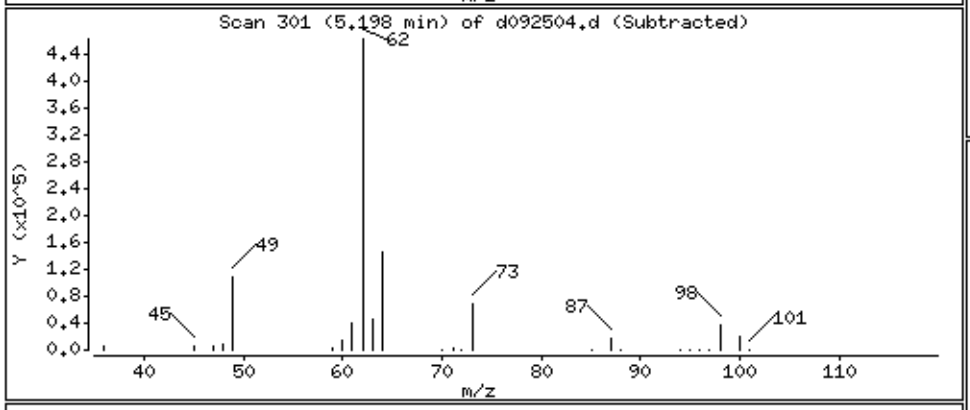
Column diameter: 0.53

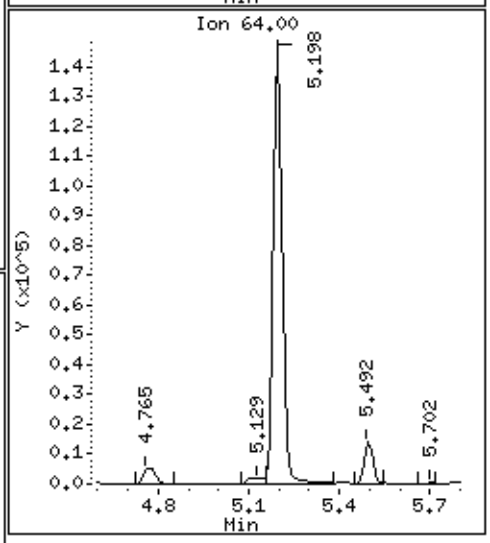
94 1,2-Dichloroethane

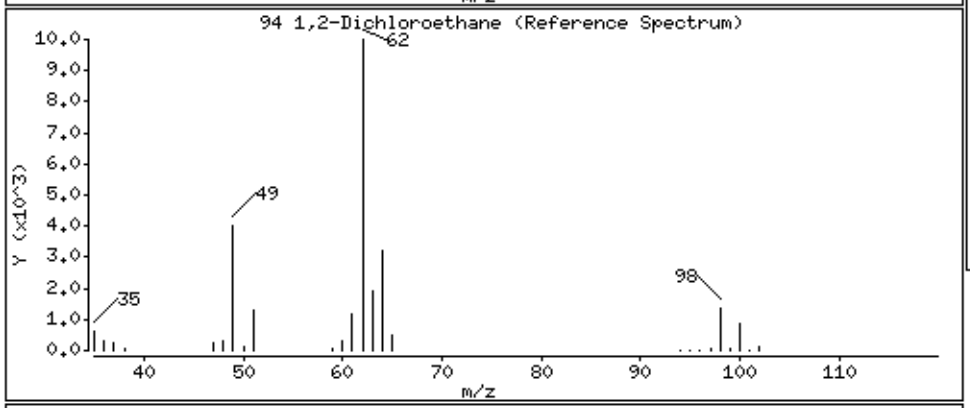
Concentration: 51.313 PPBV

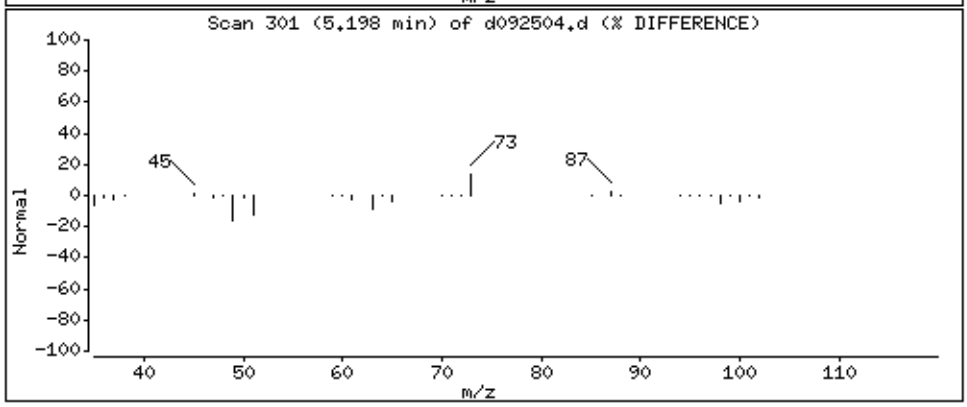












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

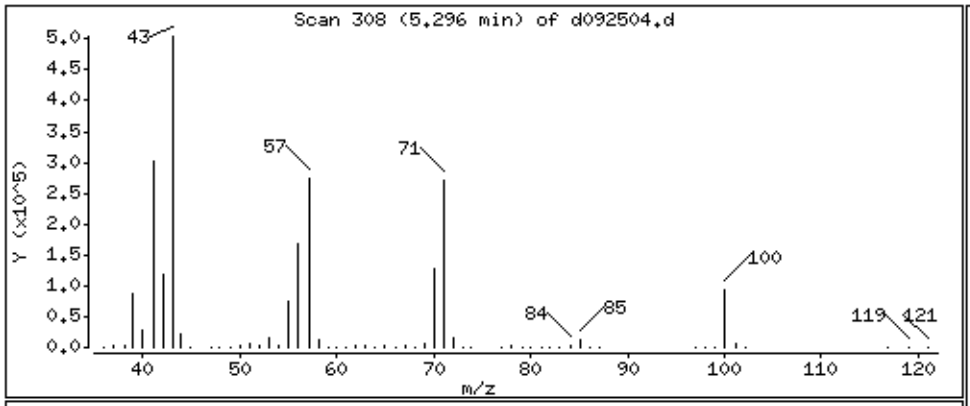
Operator: ccy

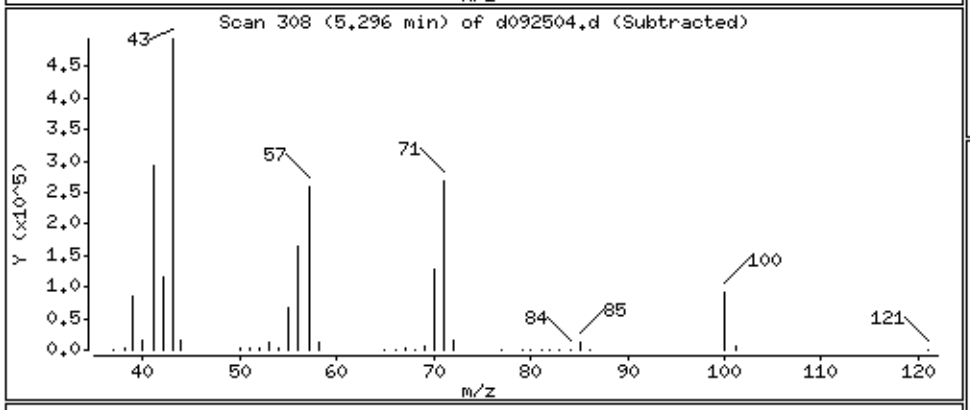
Column phase: RTx-624

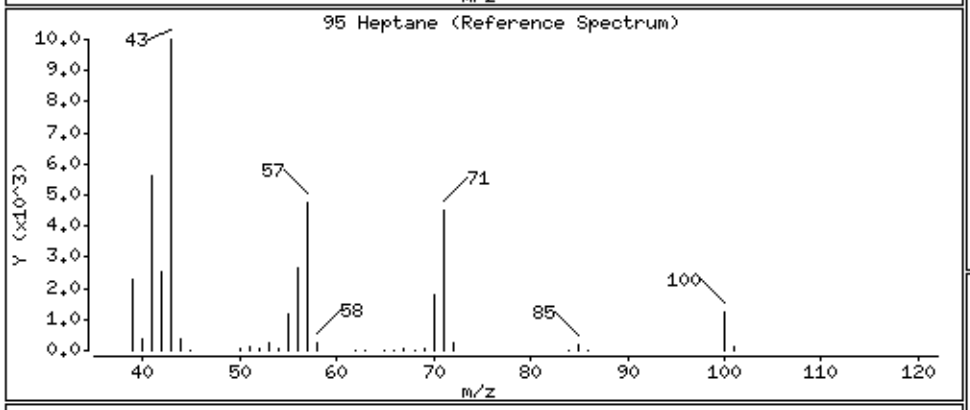
Column diameter: 0.53

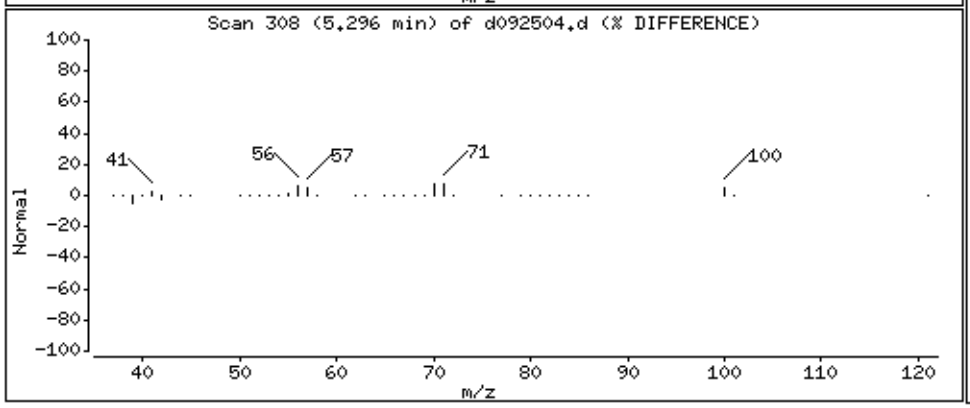
95 Heptane

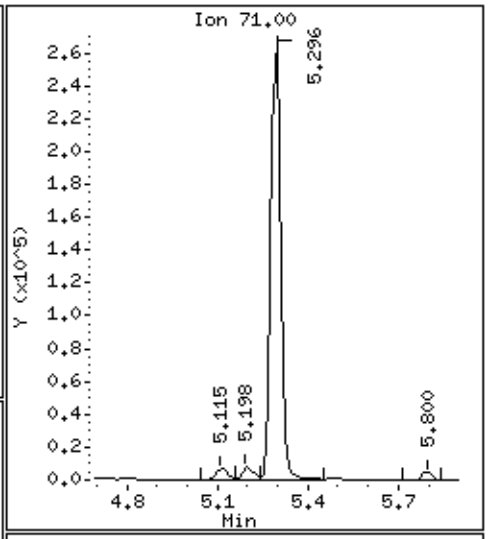
Concentration: 51.230 PPBV

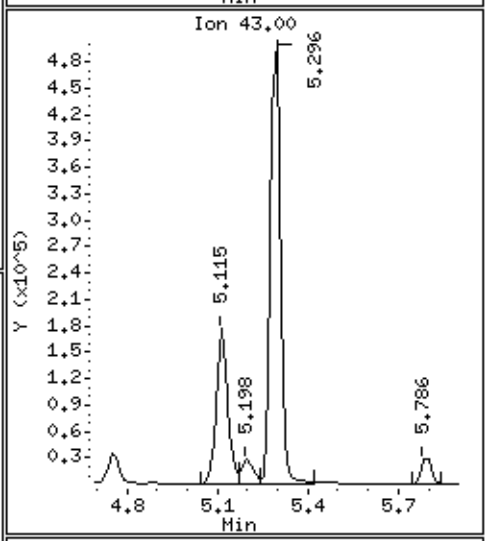


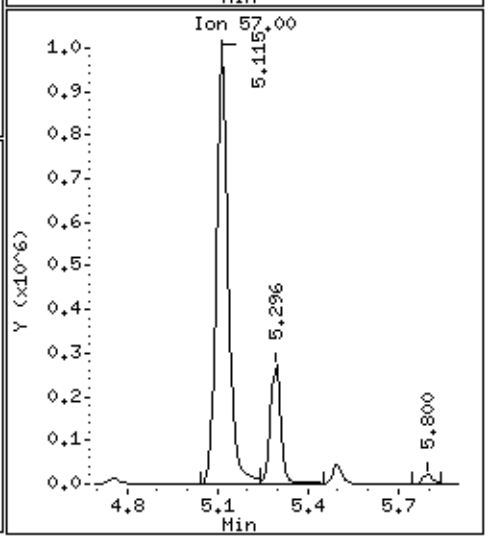












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

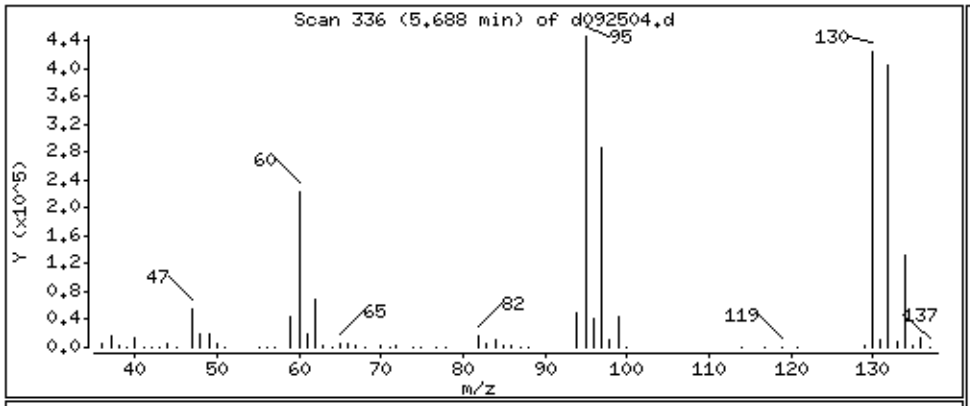
Operator: ccy

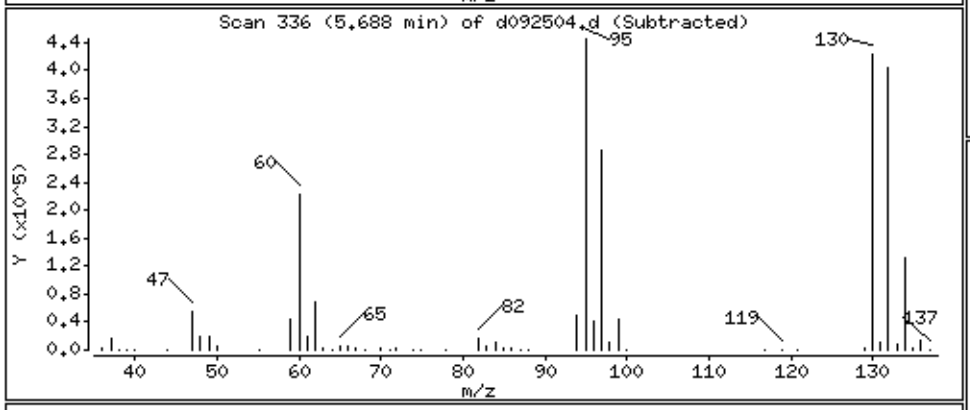
Column phase: RTx-624

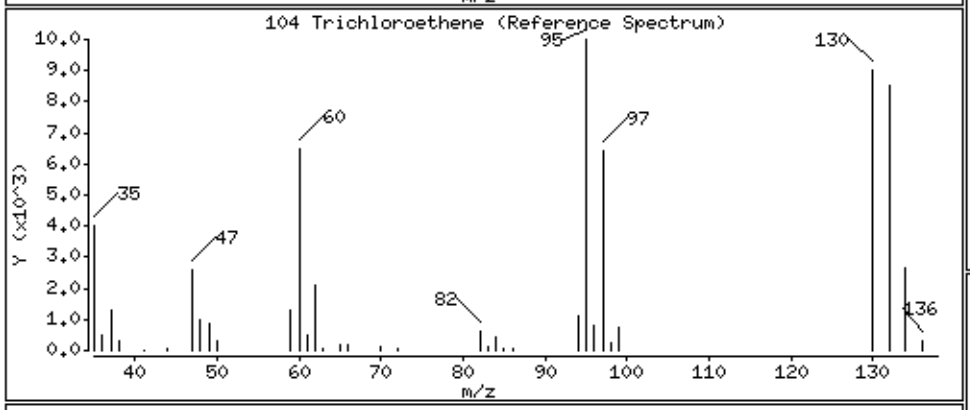
Column diameter: 0.53

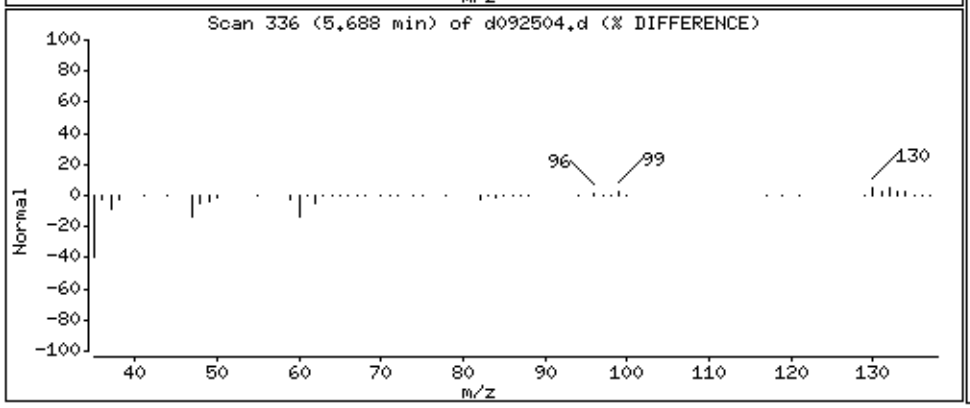
104 Trichloroethene

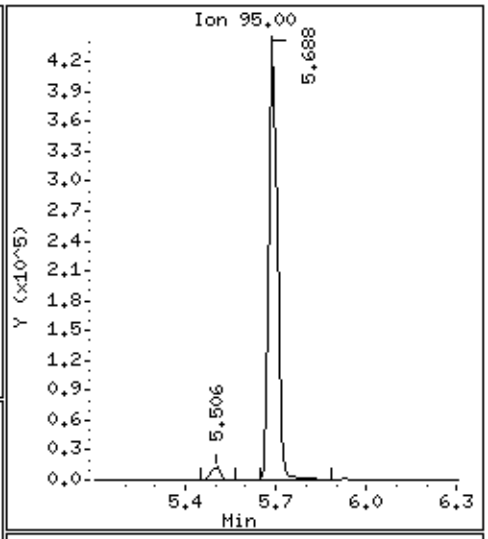
Concentration: 52.270 PPBV

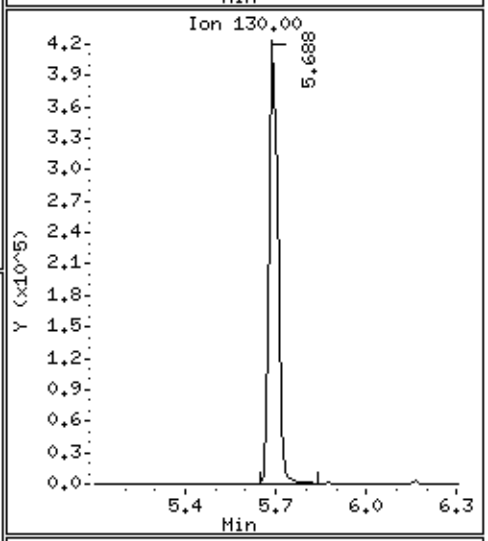


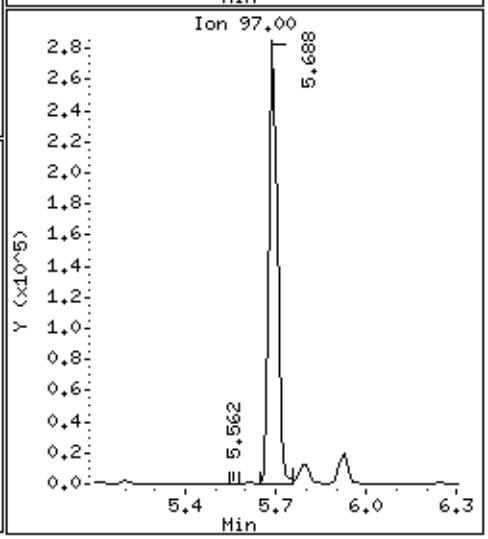












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

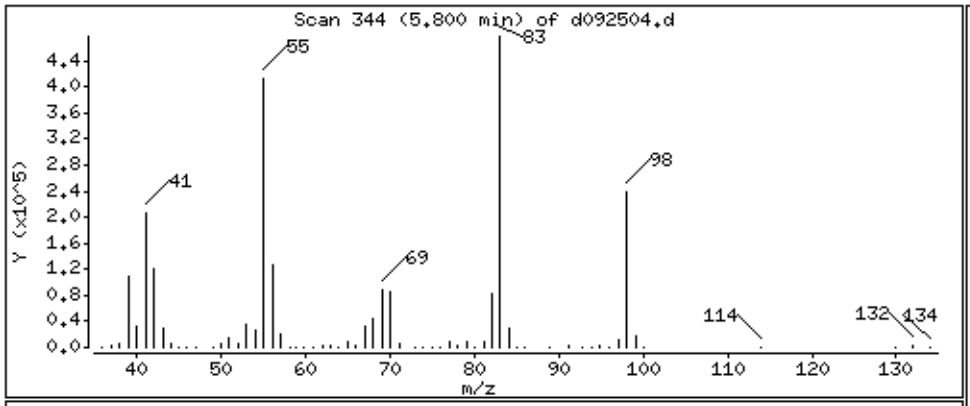
Operator: ccy

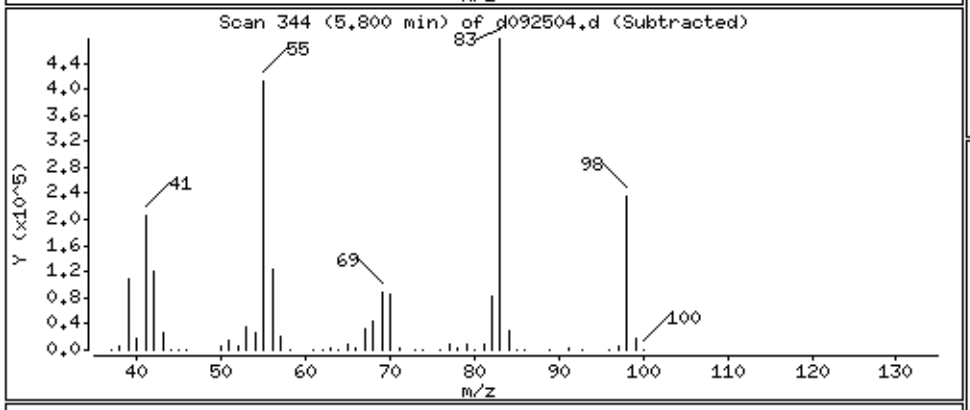
Column phase: RTx-624

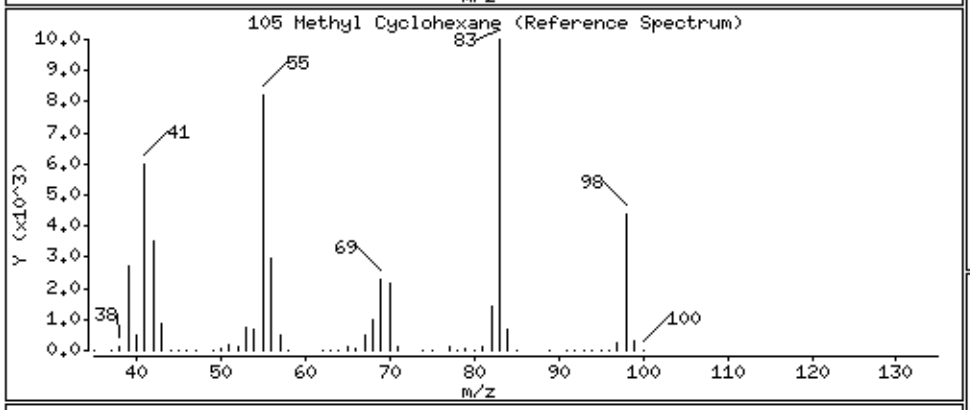
Column diameter: 0.53

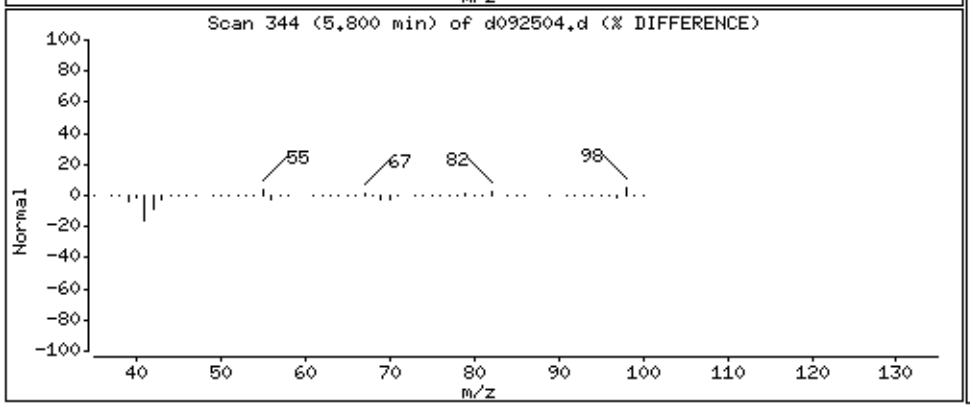
105 Methyl Cyclohexane

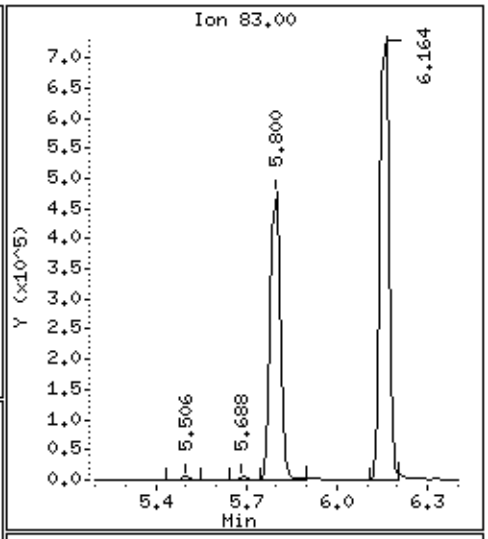
Concentration: 50.648 PPBV

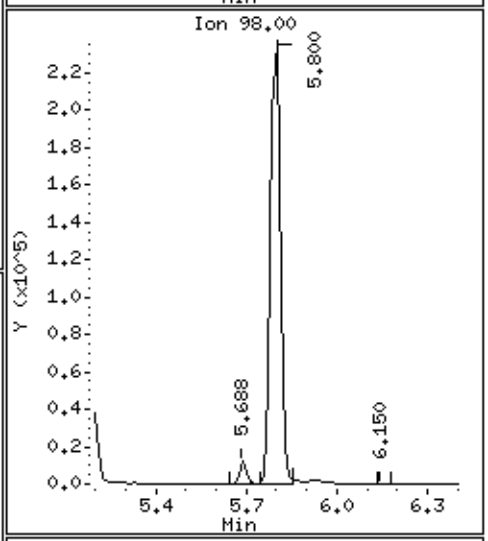


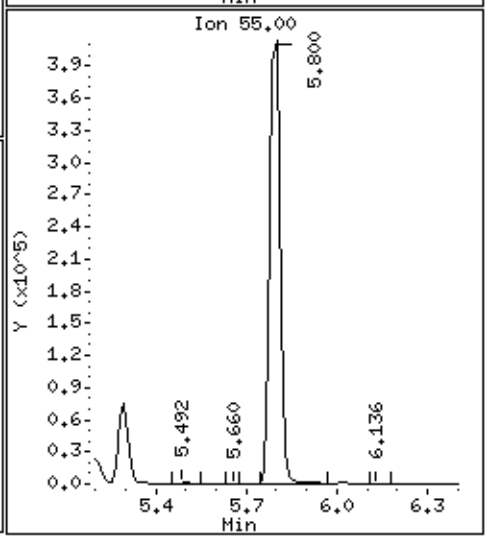












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

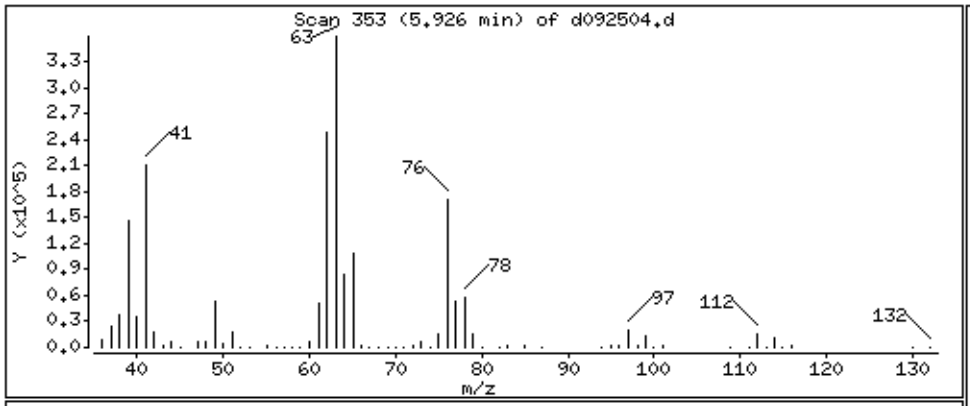
Operator: ccy

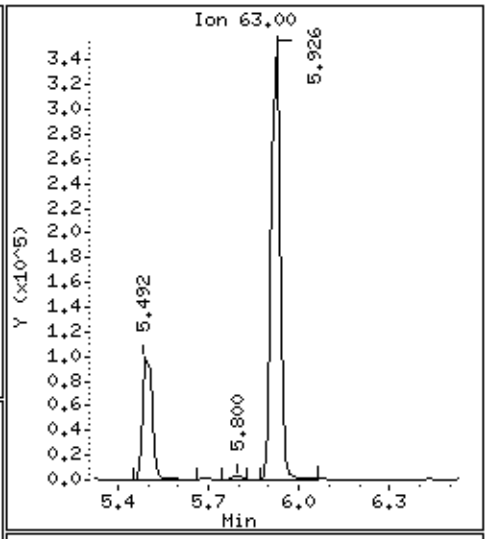
Column phase: RTx-624

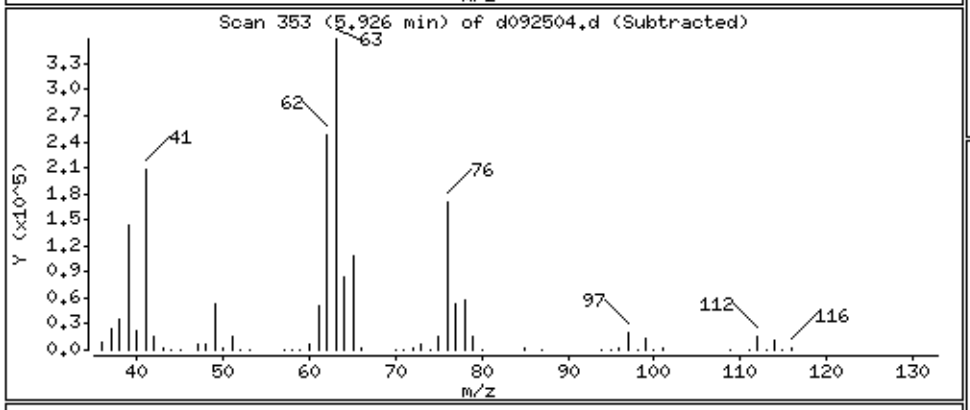
Column diameter: 0.53

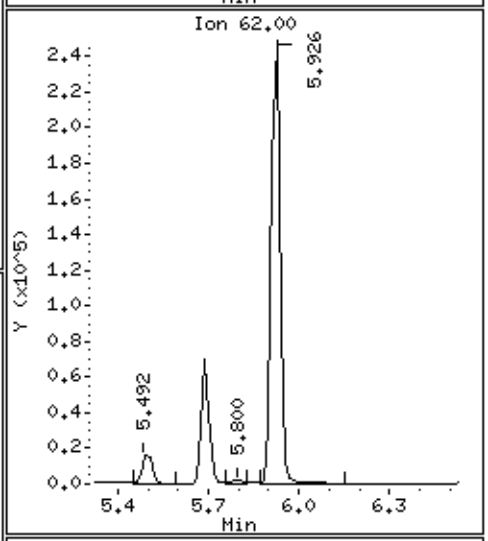
106 1,2-Dichloropropane

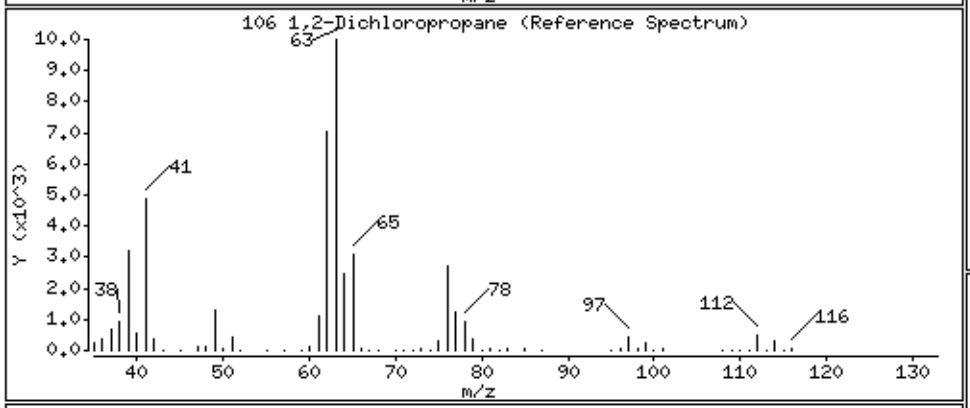
Concentration: 51.191 PPBV

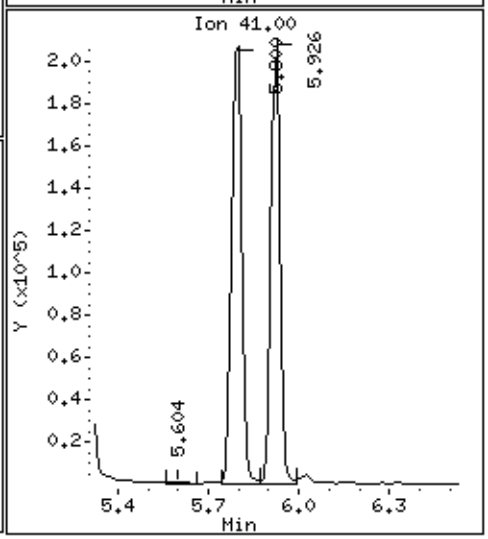


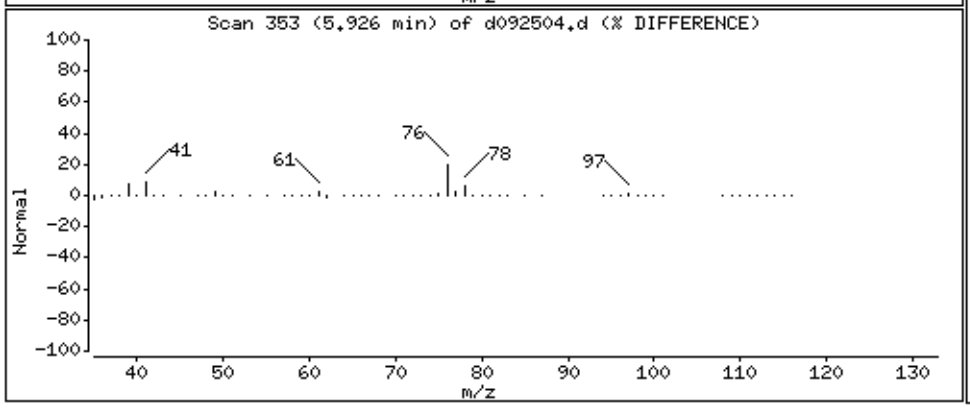












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

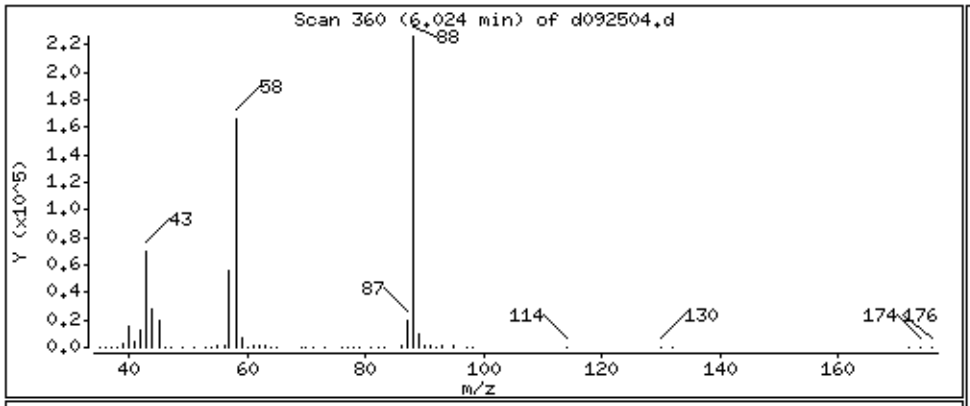
Operator: ccy

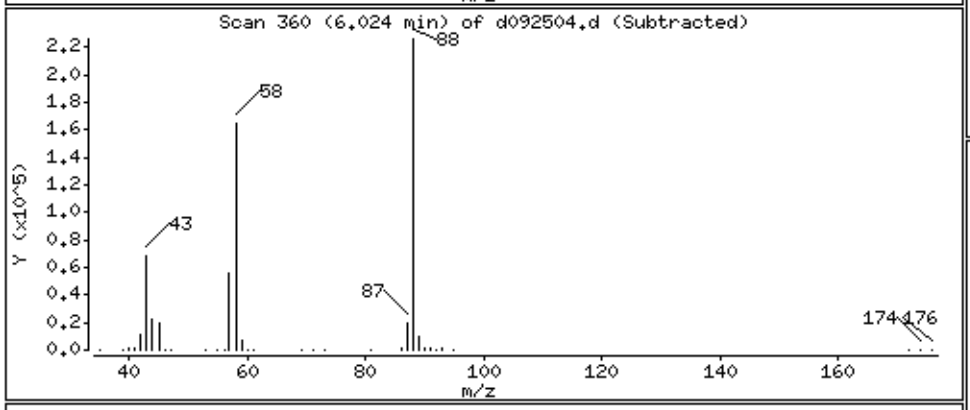
Column phase: RTx-624

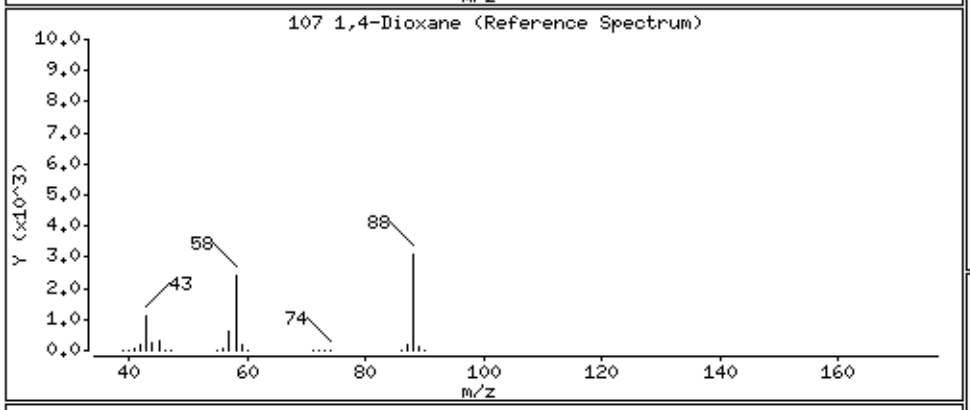
Column diameter: 0.53

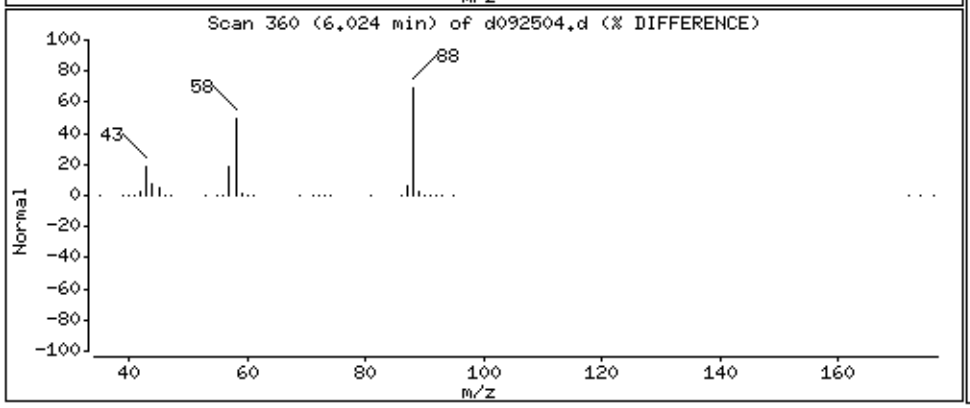
107 1,4-Dioxane

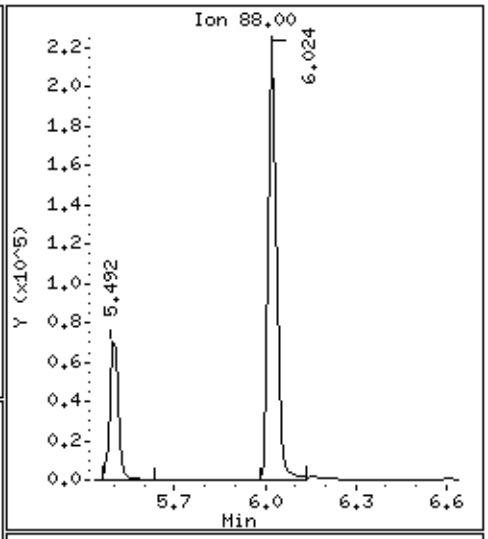
Concentration: 51.490 PPBV

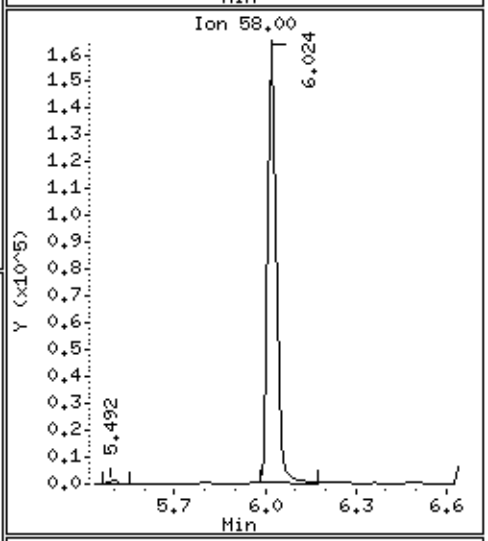


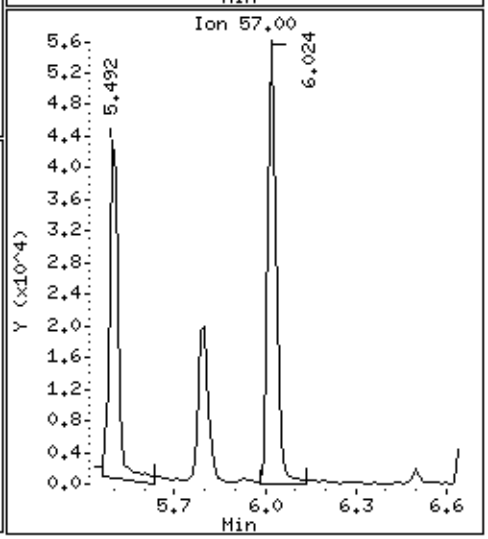












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

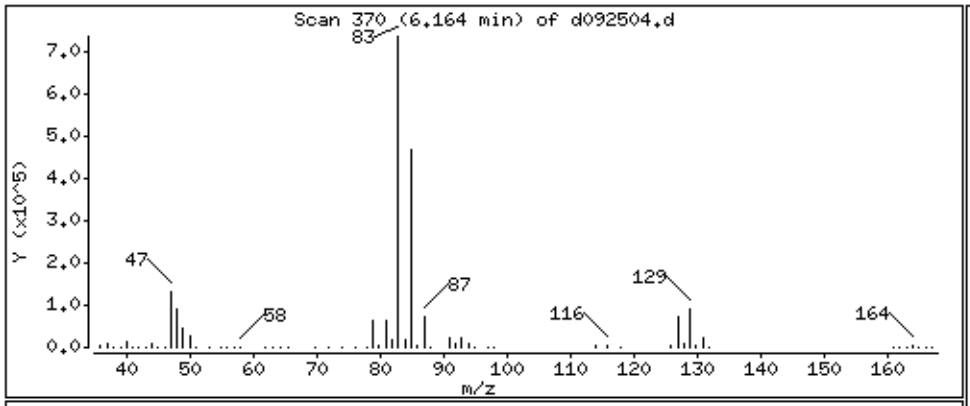
Operator: ccy

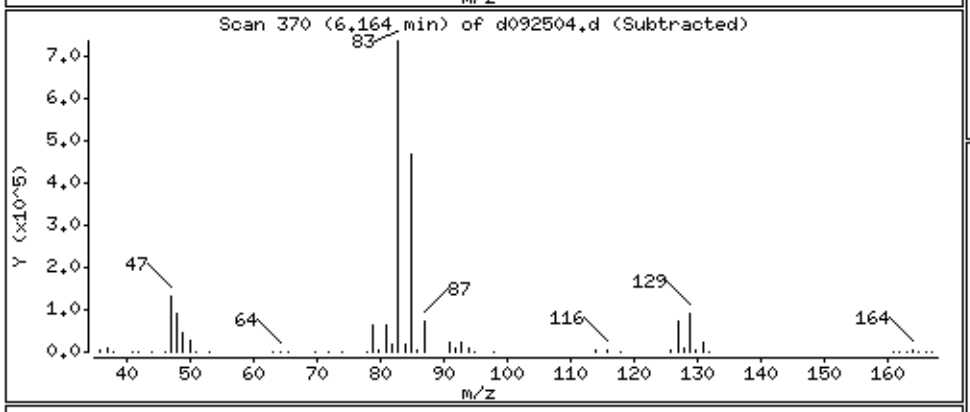
Column phase: RTx-624

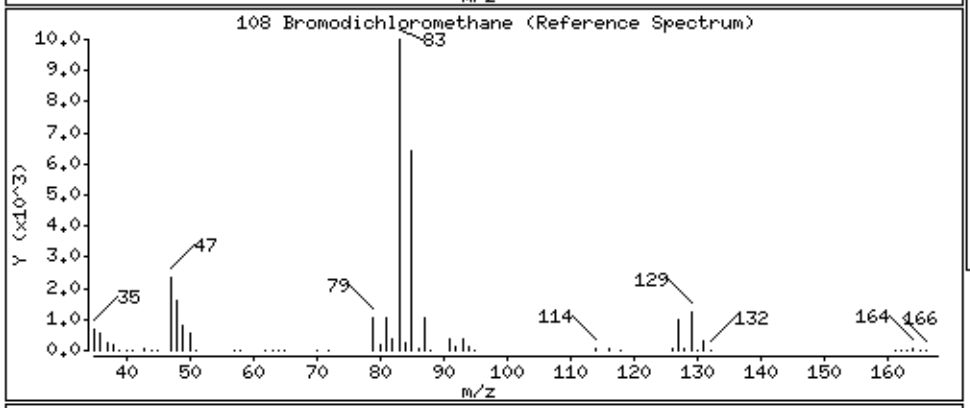
Column diameter: 0.53

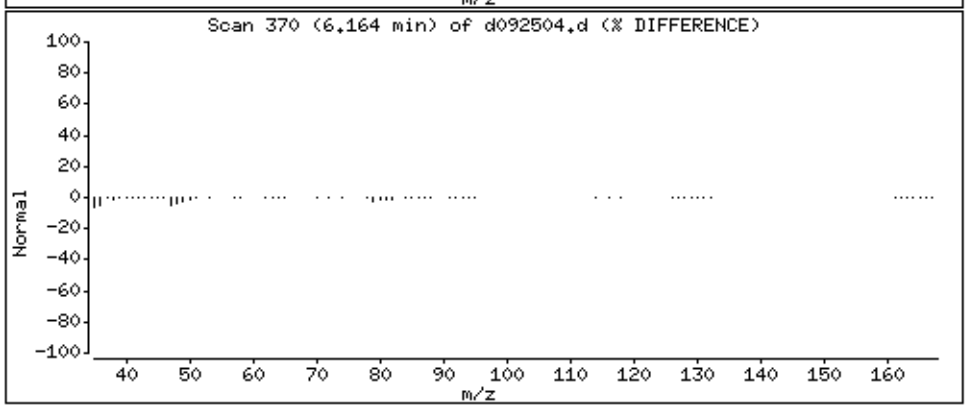
108 Bromodichloromethane

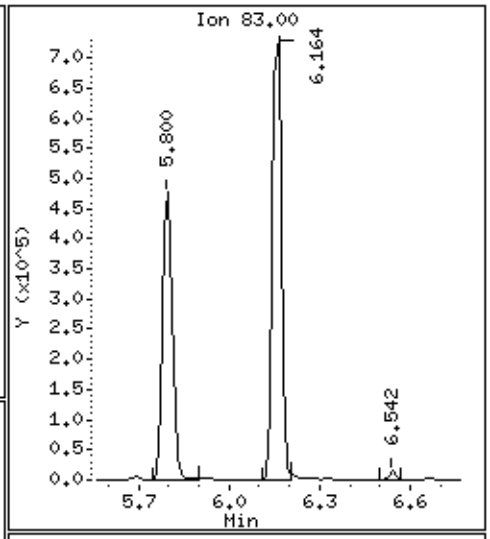
Concentration: 53.578 PPBV

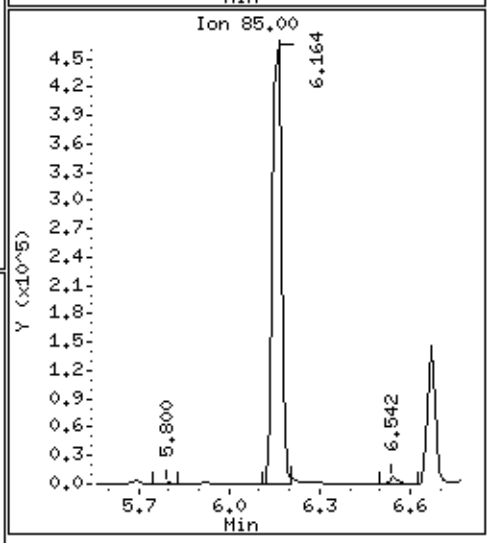












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

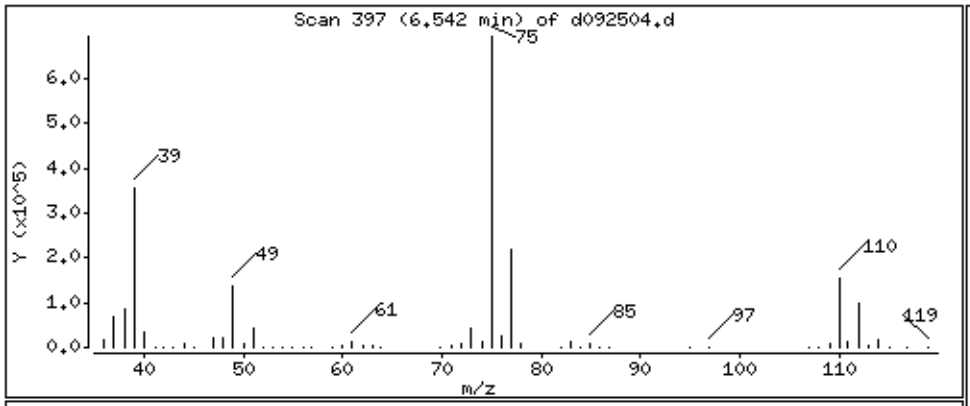
Operator: ccy

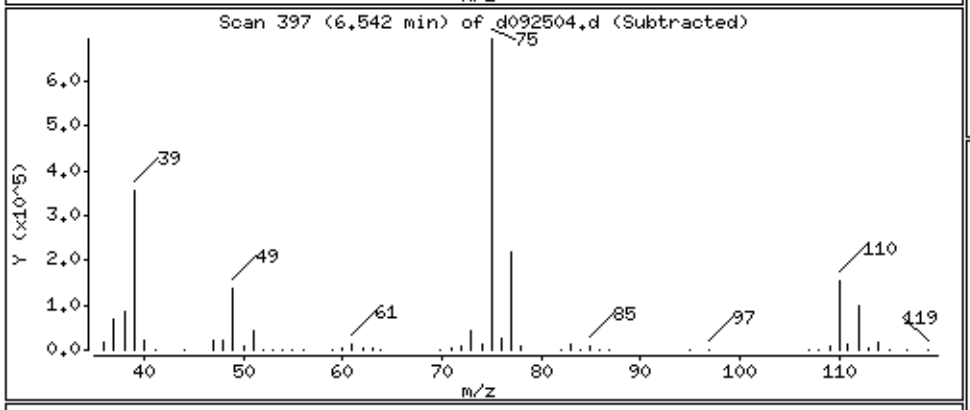
Column phase: RTx-624

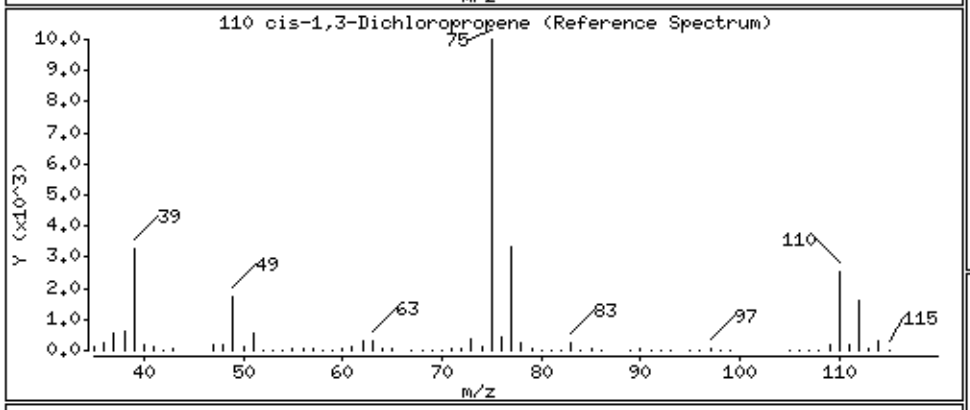
Column diameter: 0.53

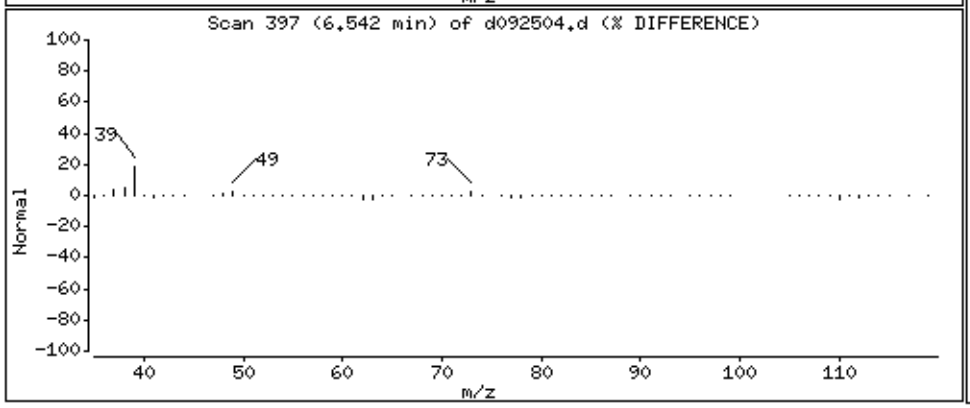
110 cis-1,3-Dichloropropene

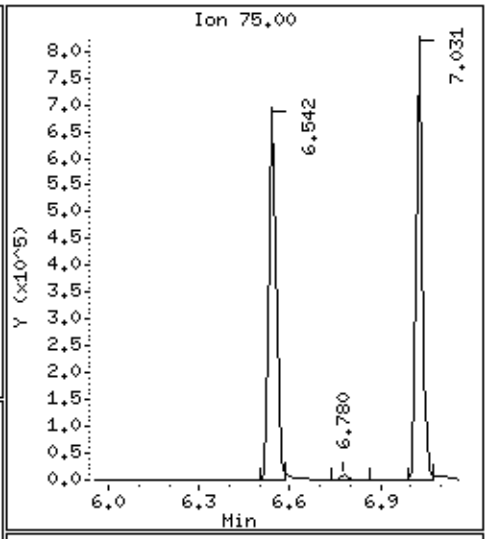
Concentration: 52.967 PPBV

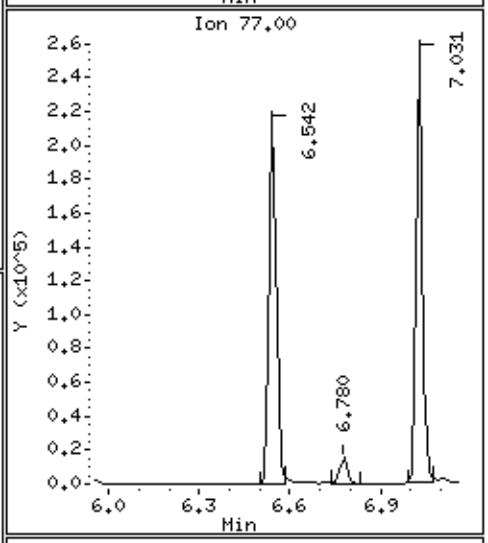


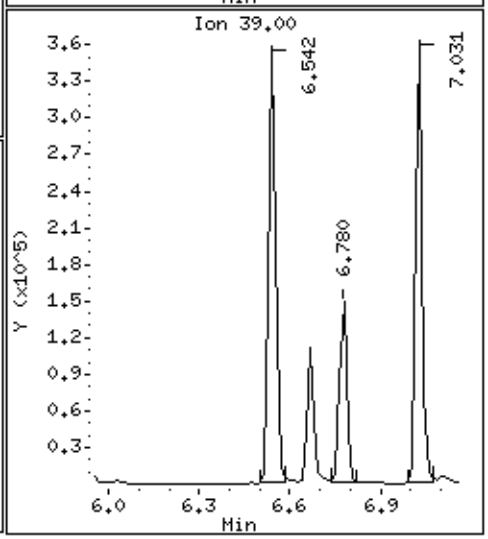












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

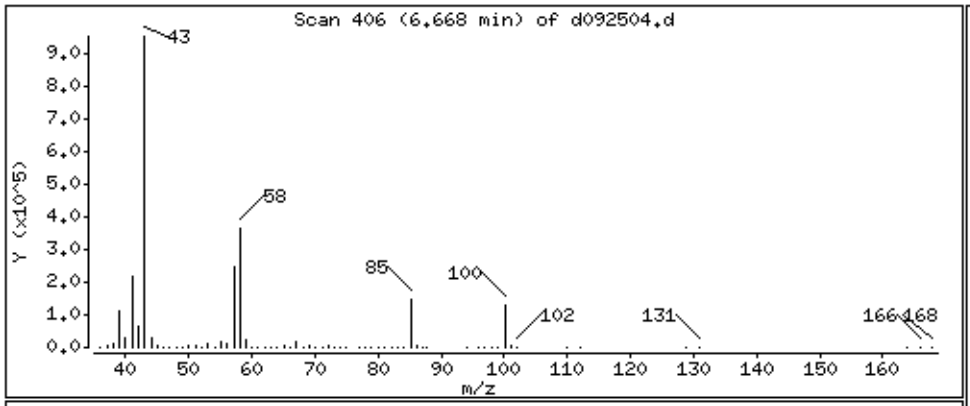
Operator: ccy

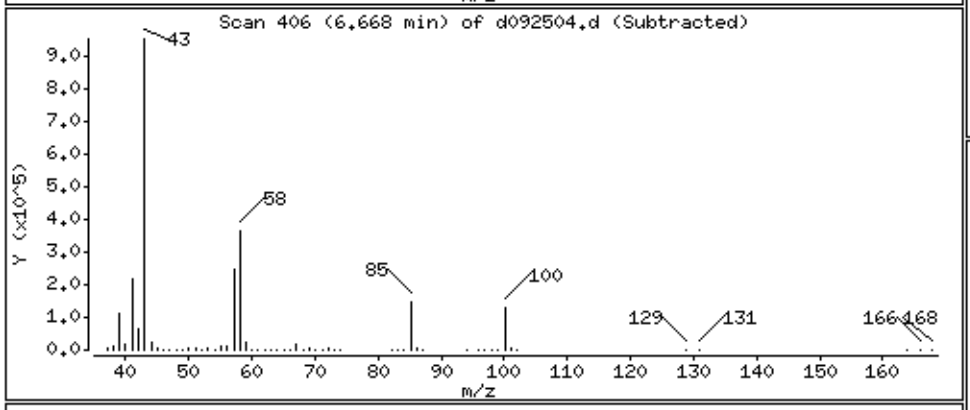
Column phase: RTx-624

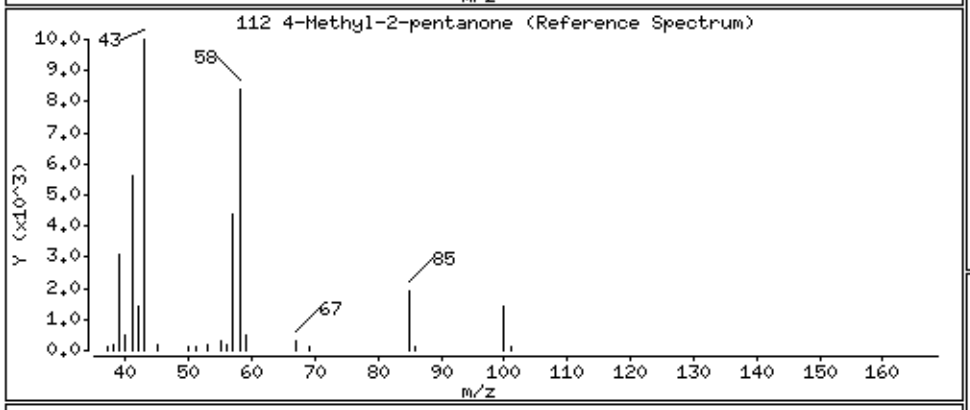
Column diameter: 0.53

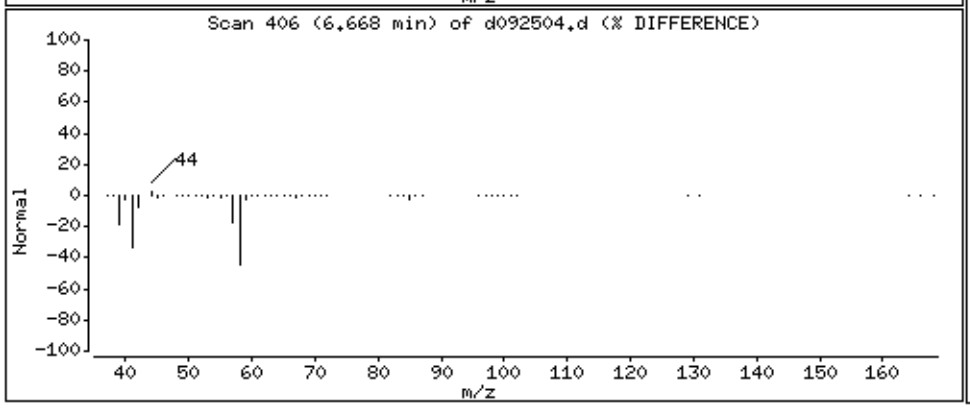
112 4-Methyl-2-pentanone

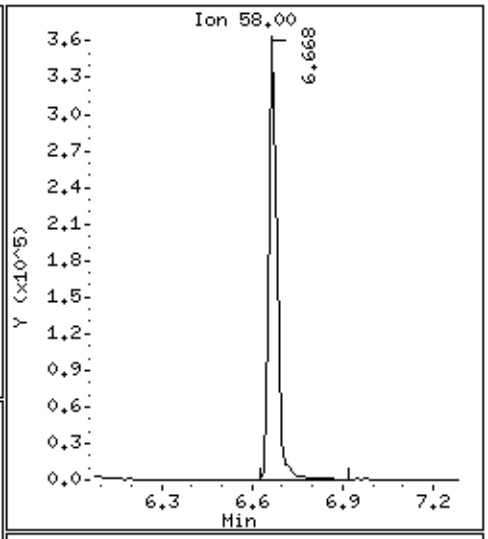
Concentration: 53.842 PPBV

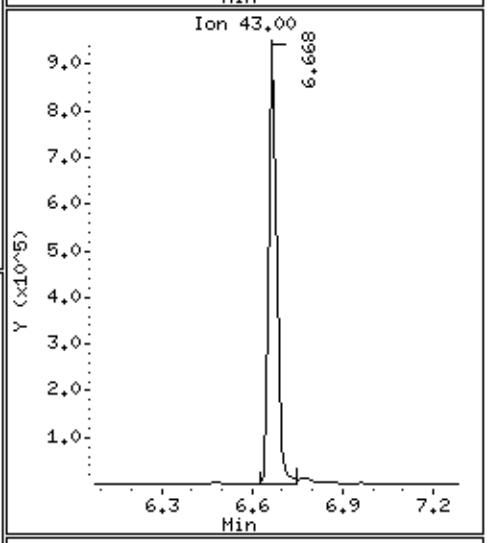


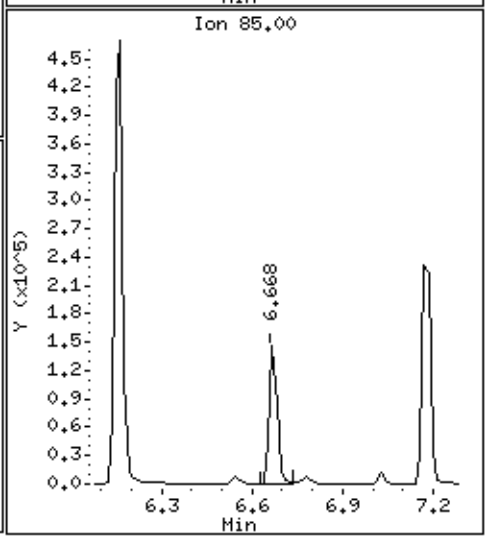












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

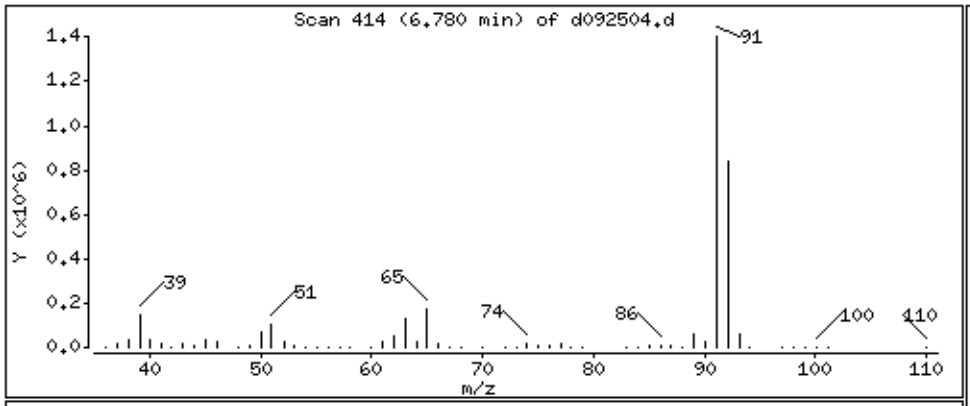
Operator: ccy

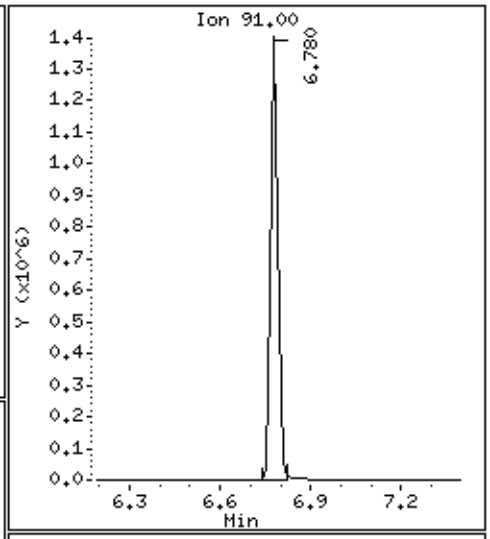
Column phase: RTx-624

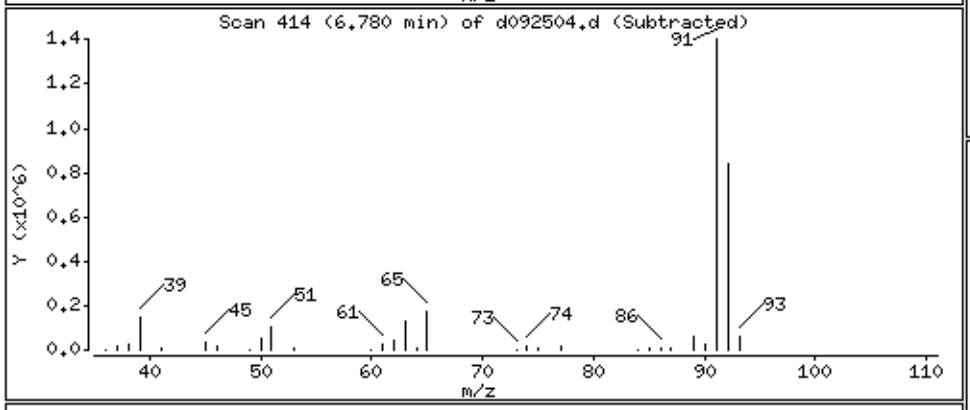
Column diameter: 0.53

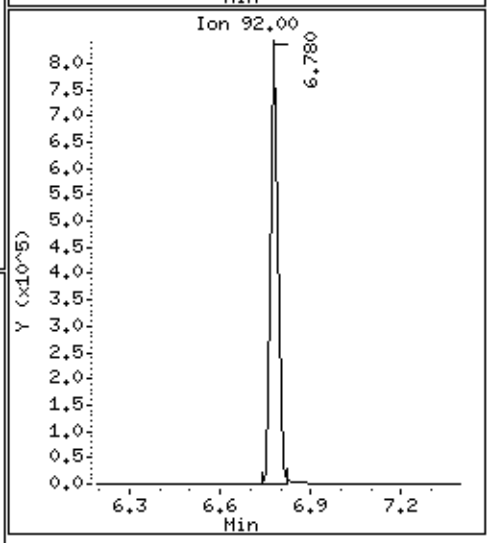
115 Toluene

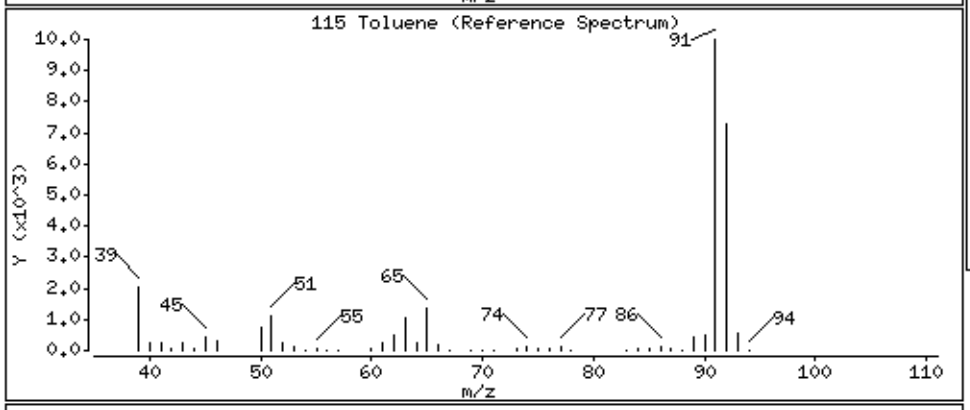
Concentration: 48.183 PPBV

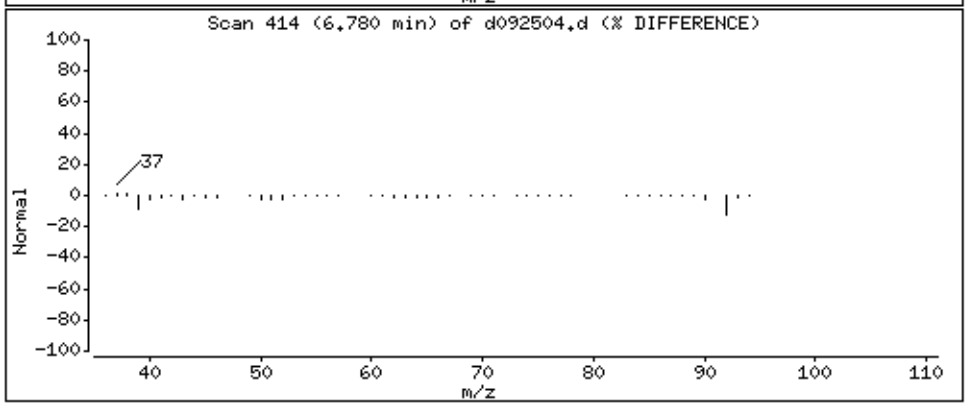












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

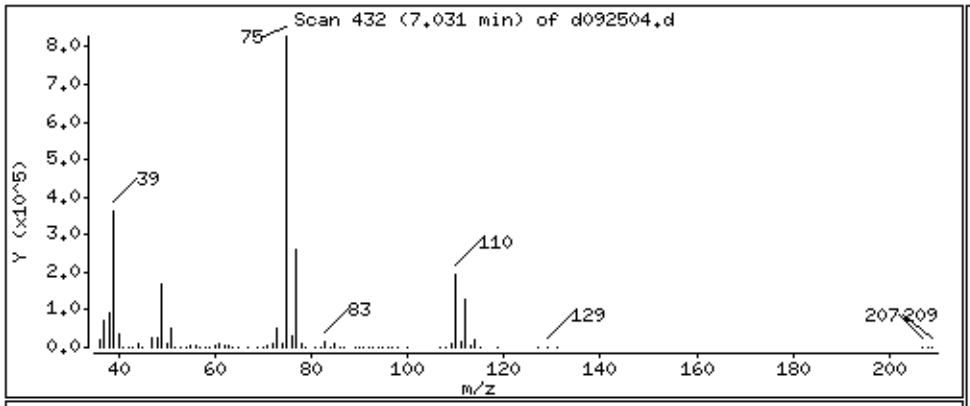
Operator: ccy

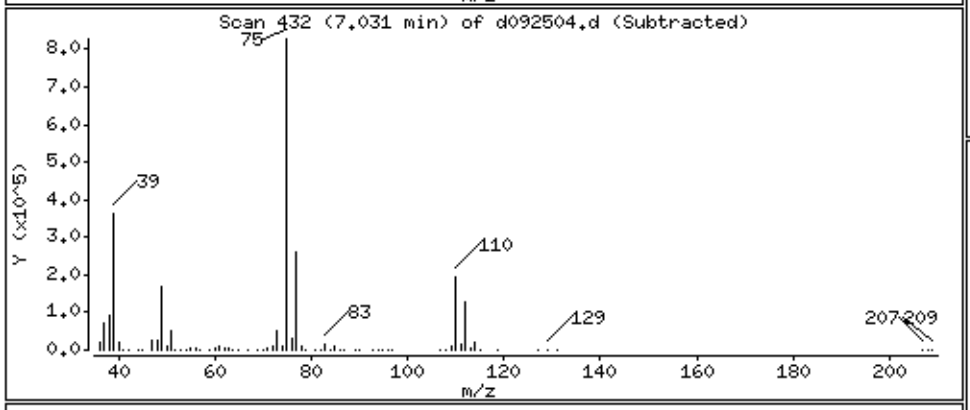
Column phase: RTx-624

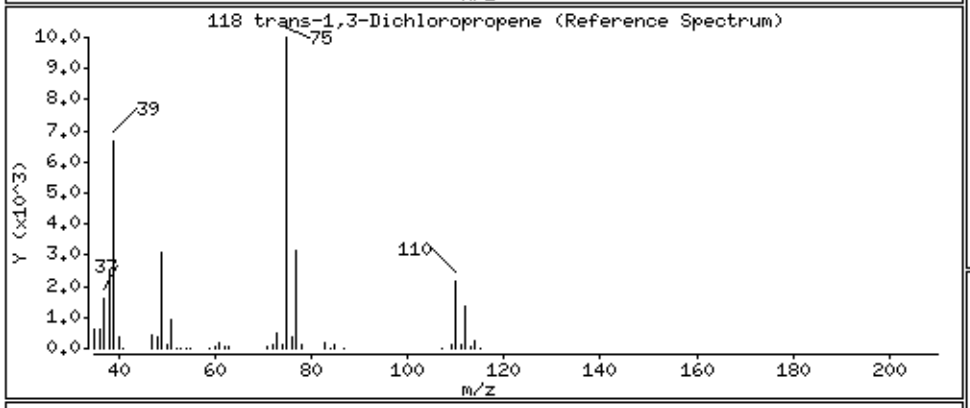
Column diameter: 0.53

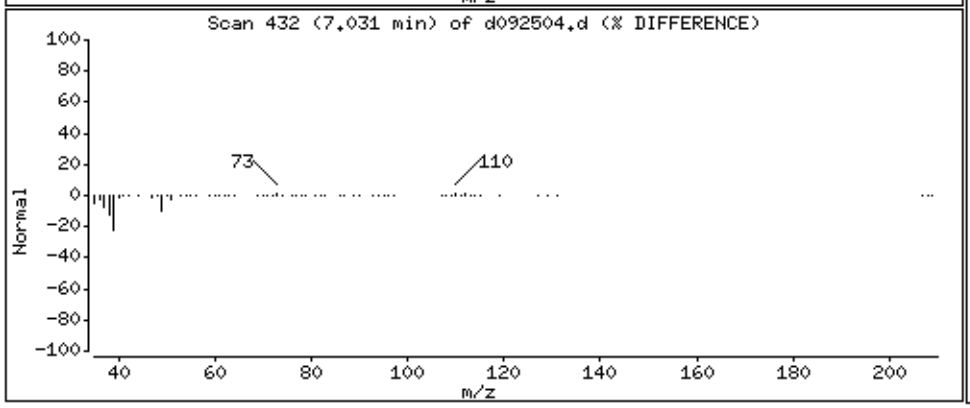
118 trans-1,3-Dichloropropene

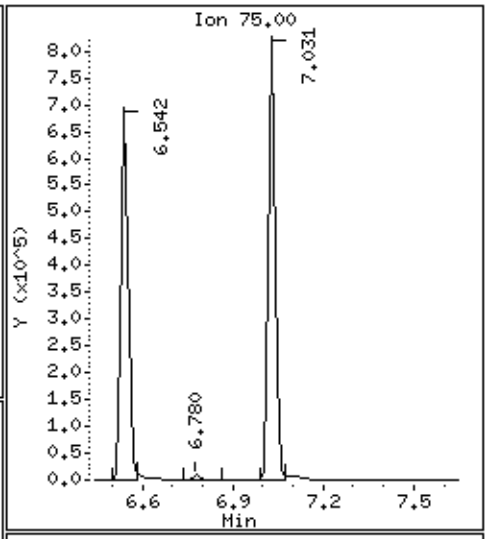
Concentration: 54.221 PPBV

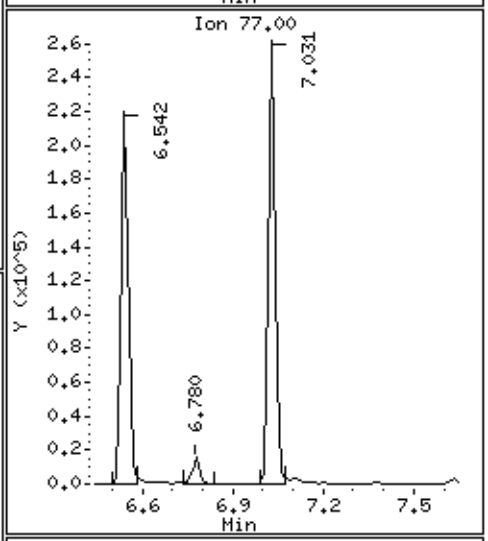


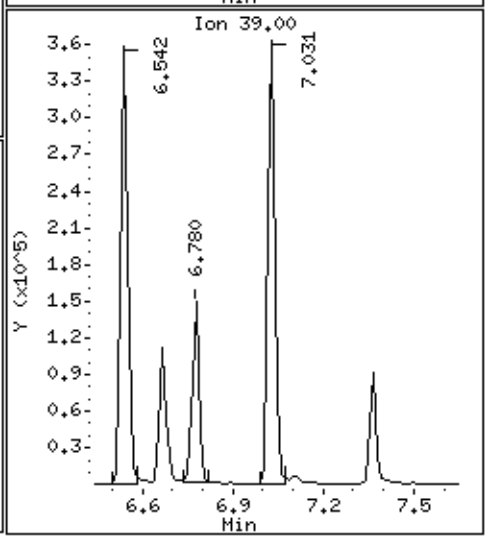












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

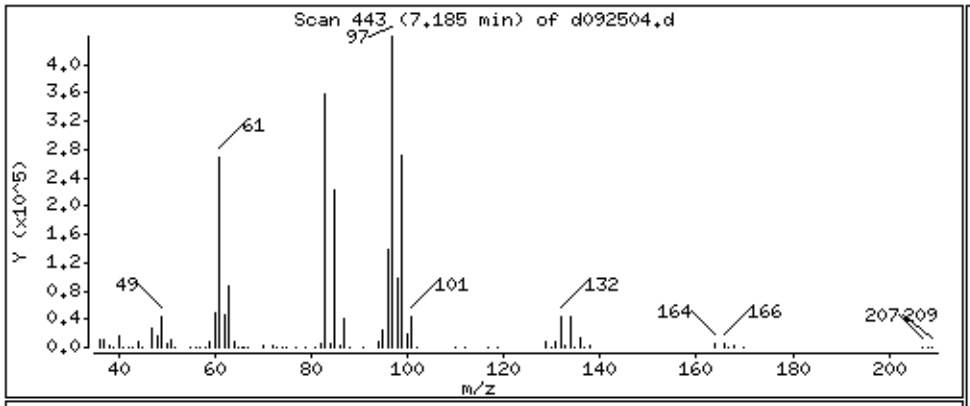
Operator: ccy

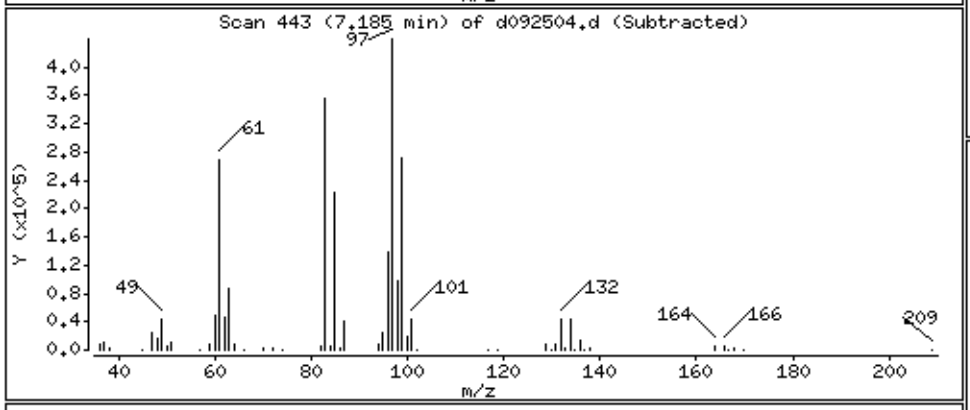
Column phase: RTx-624

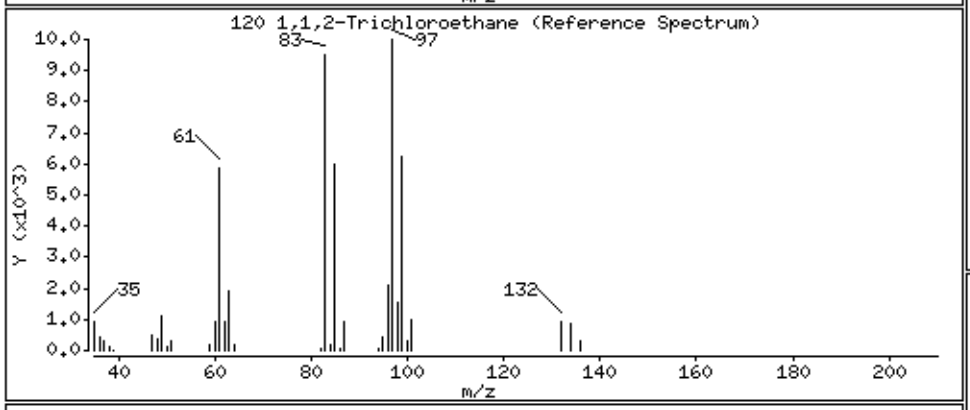
Column diameter: 0.53

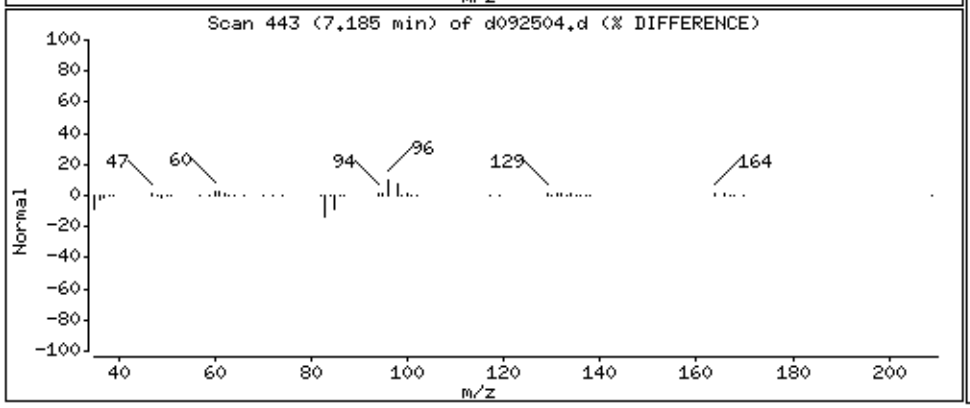
120 1,1,2-Trichloroethane

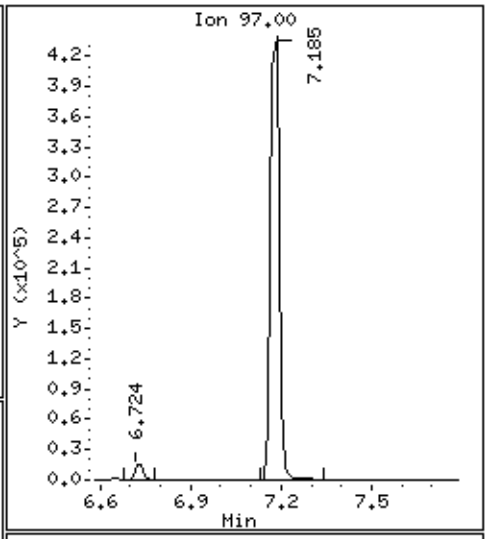
Concentration: 51.988 PPBV

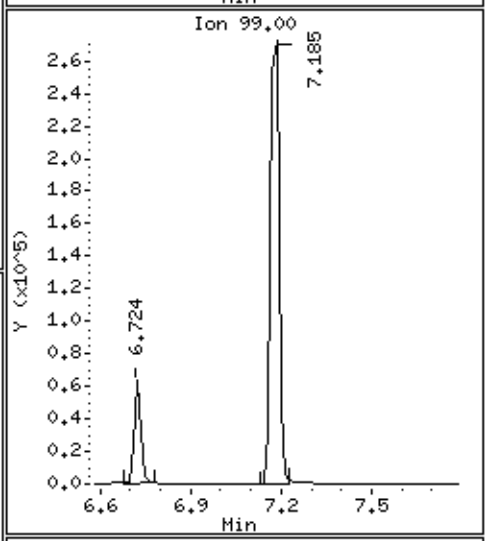


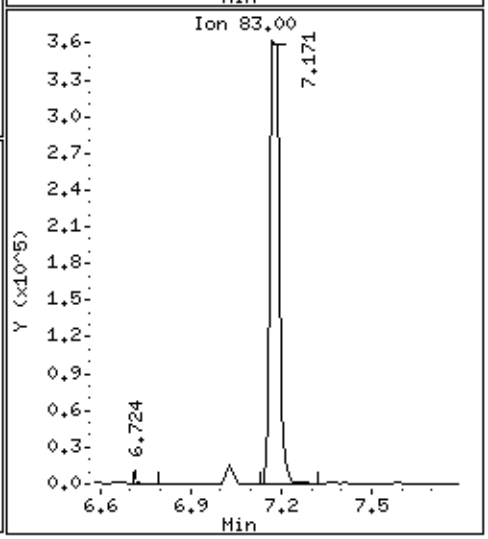












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

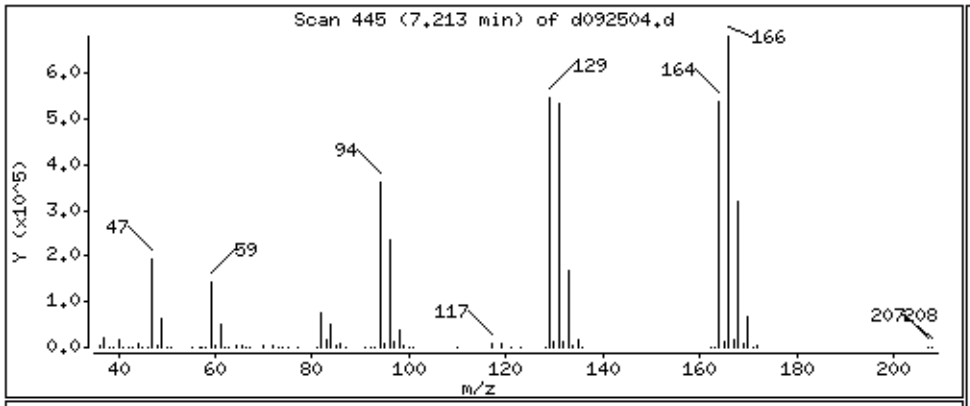
Operator: ccy

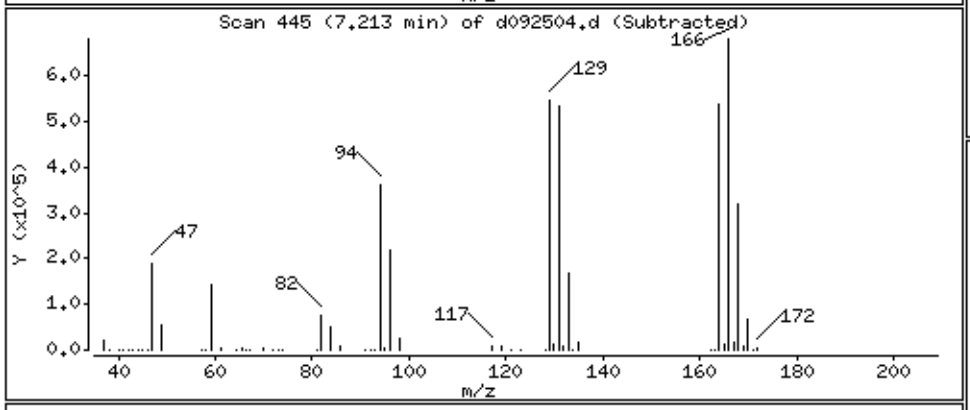
Column phase: RTx-624

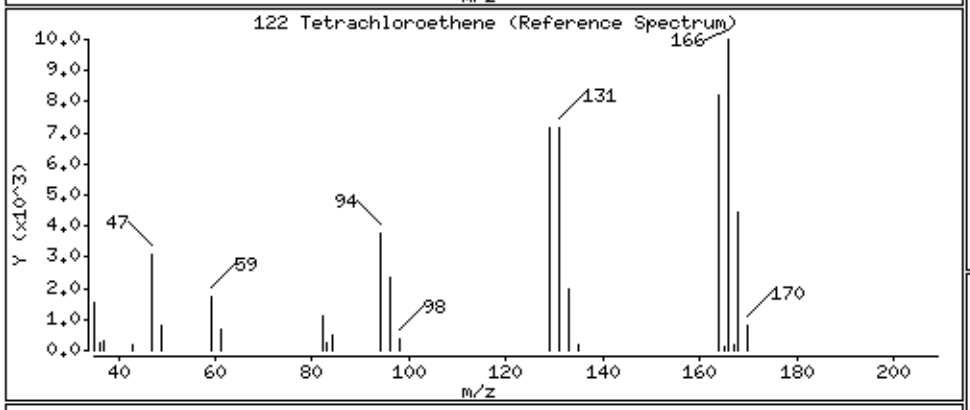
Column diameter: 0.53

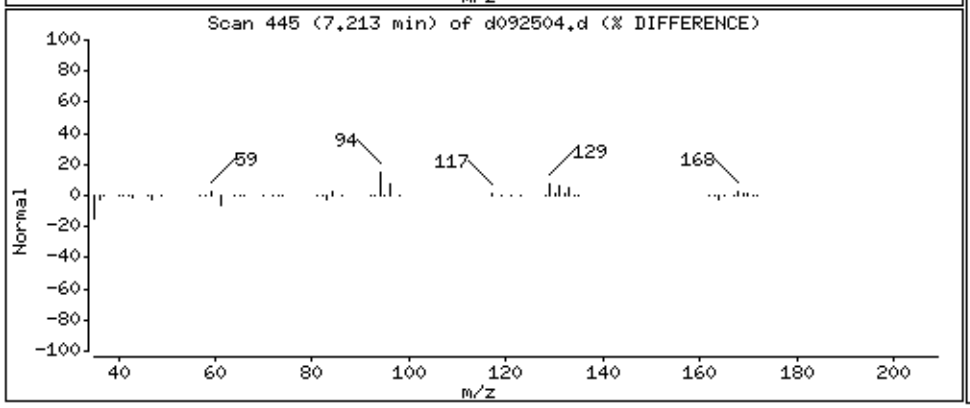
122 Tetrachloroethene

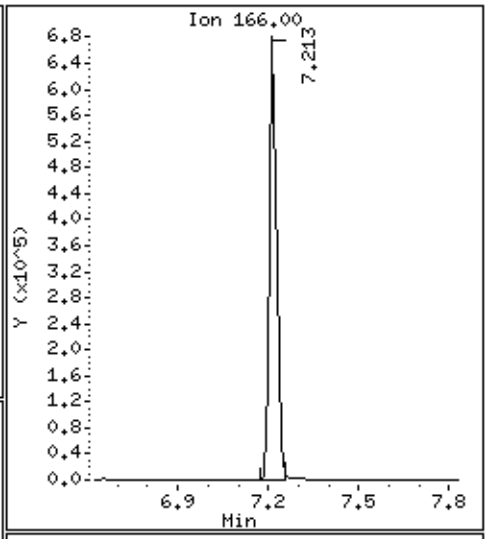
Concentration: 51.234 PPBV

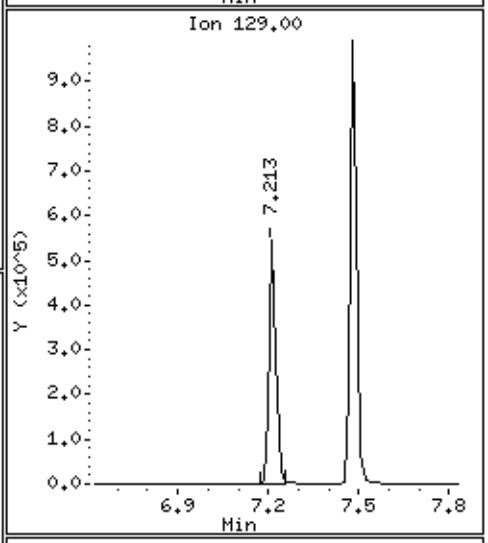


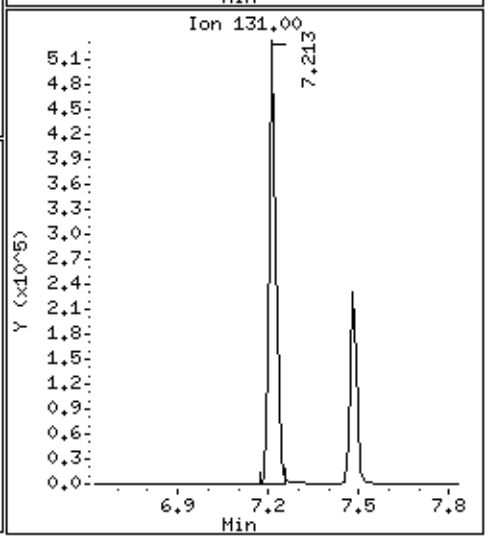












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

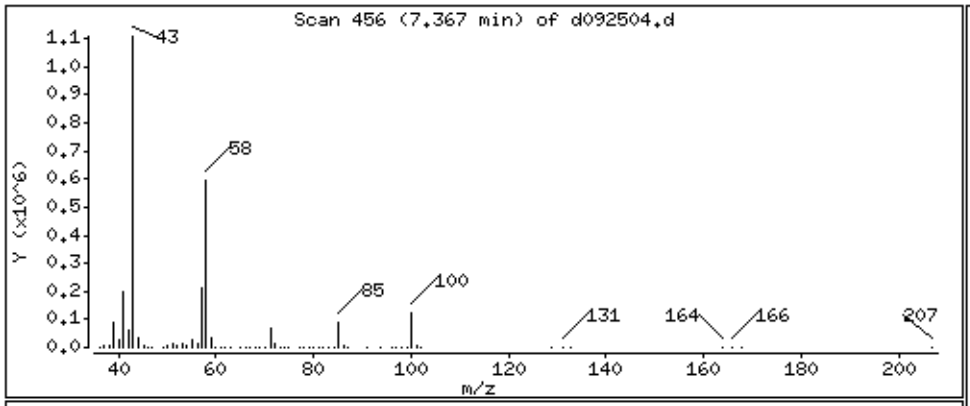
Operator: ccy

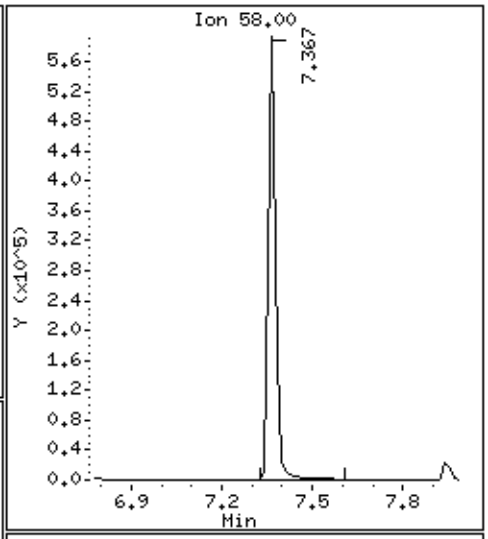
Column phase: RTx-624

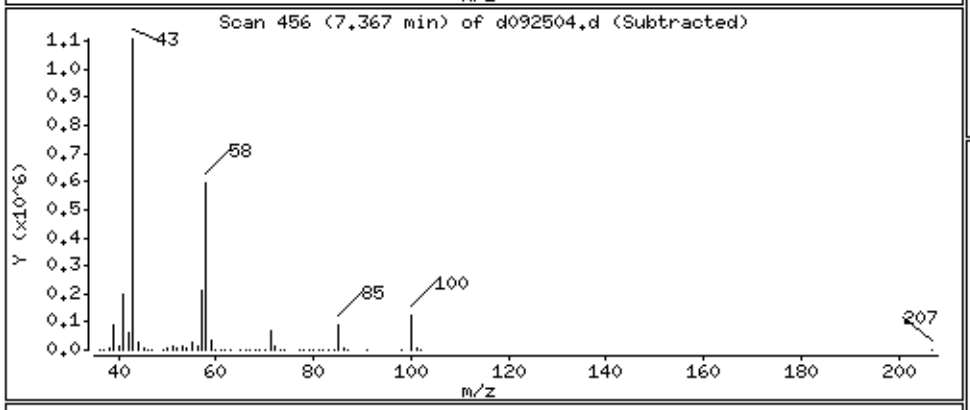
Column diameter: 0.53

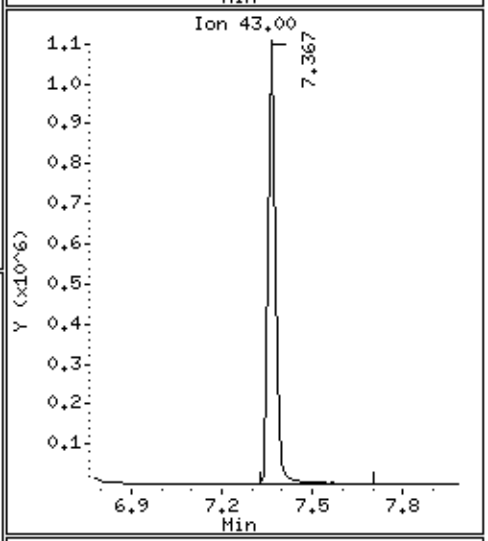
125 2-Hexanone

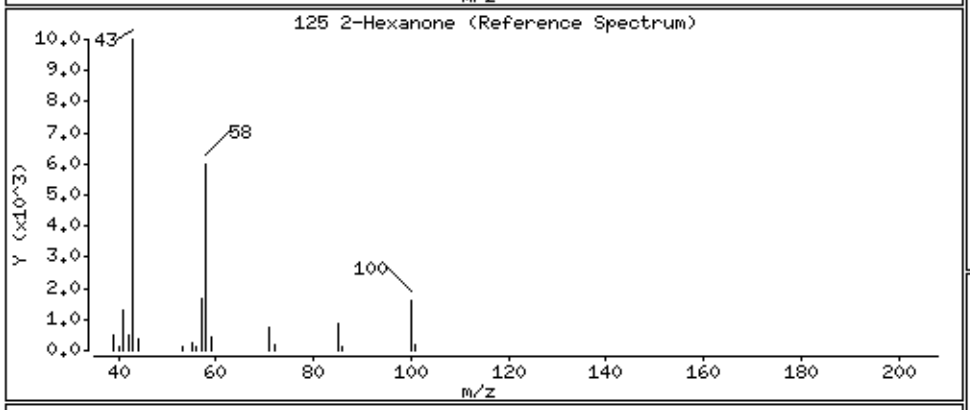
Concentration: 52.313 PPBV

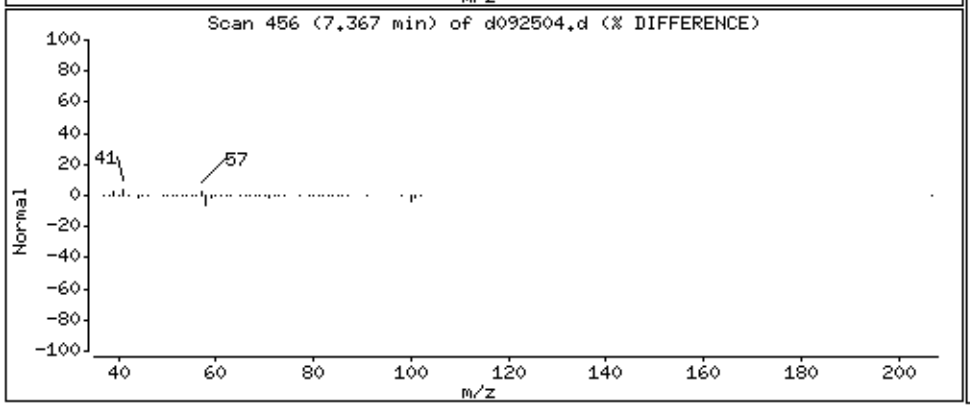


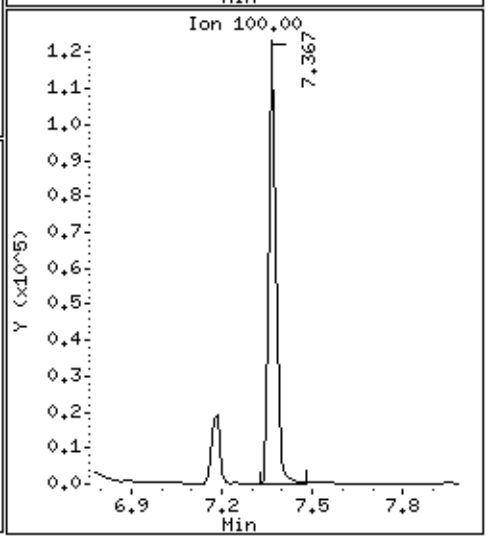












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

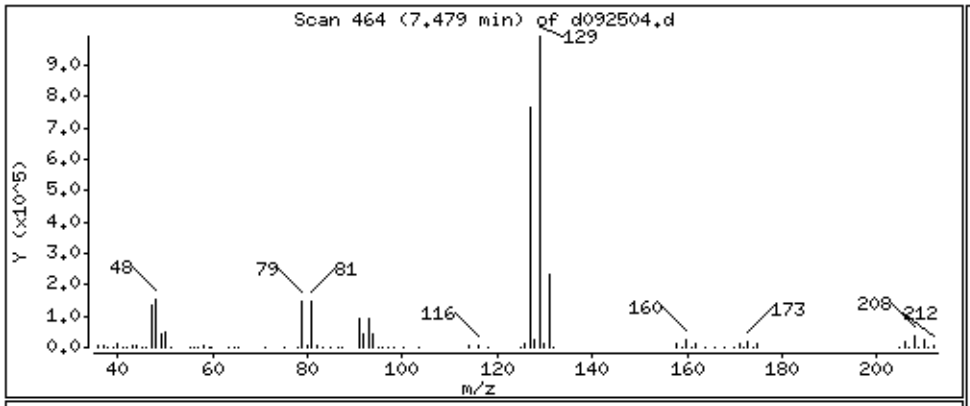
Operator: ccy

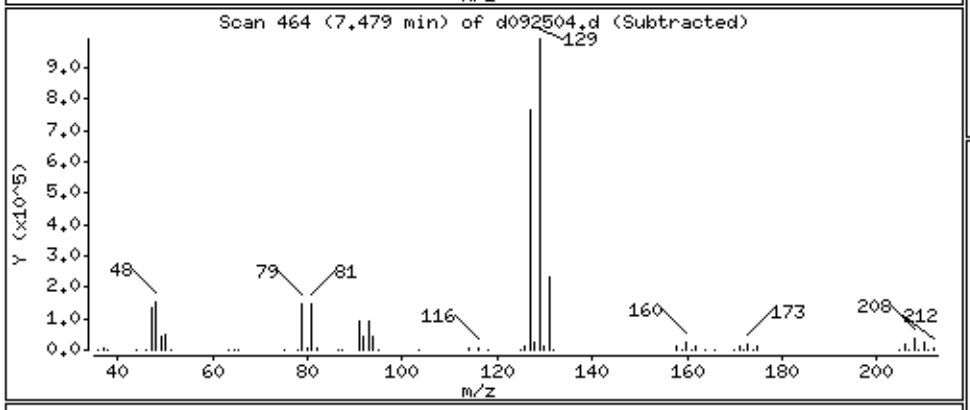
Column phase: RTx-624

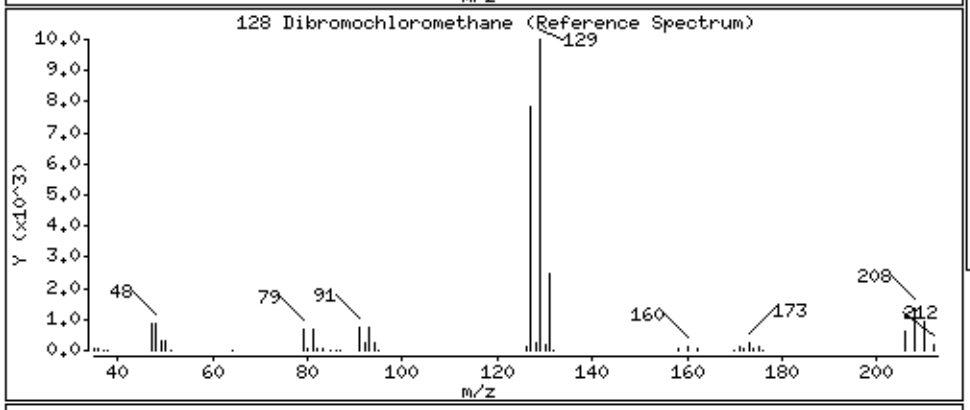
Column diameter: 0.53

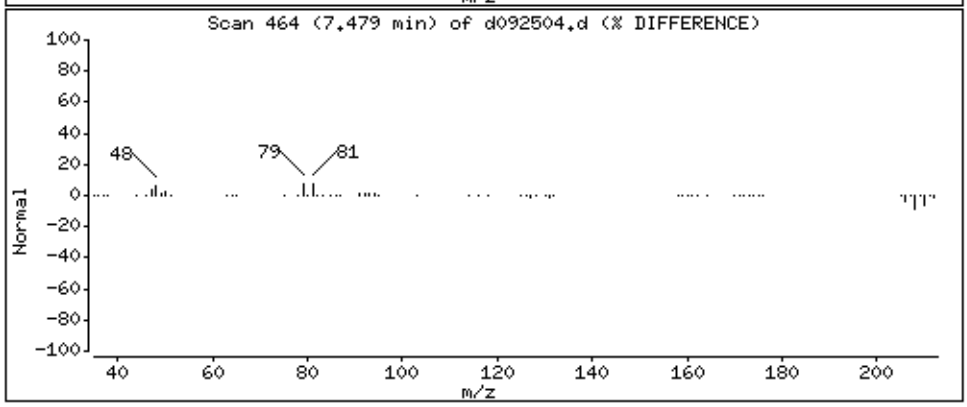
128 Dibromochloromethane

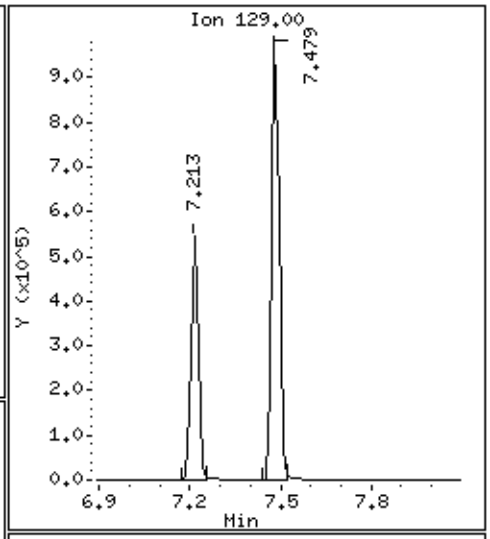
Concentration: 55.341 PPBV

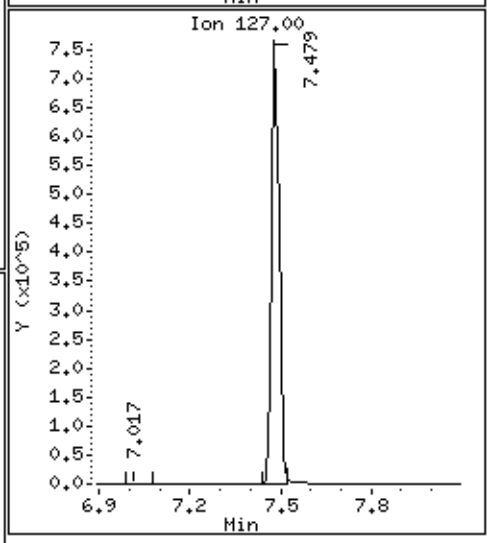












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

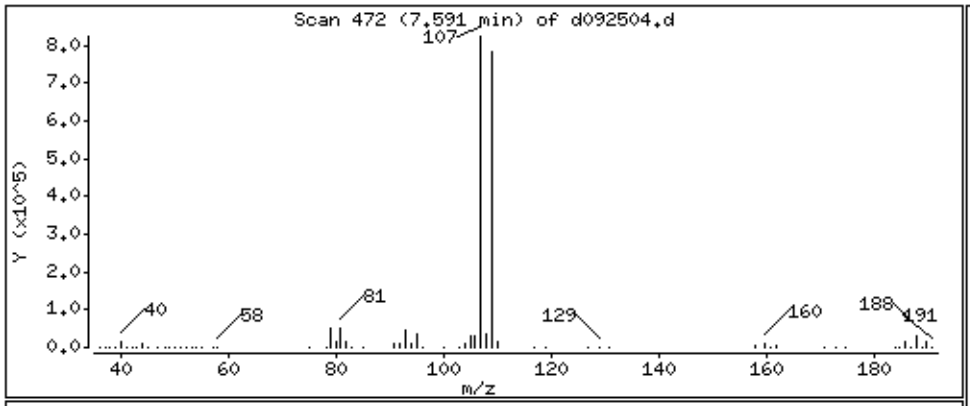
Operator: ccy

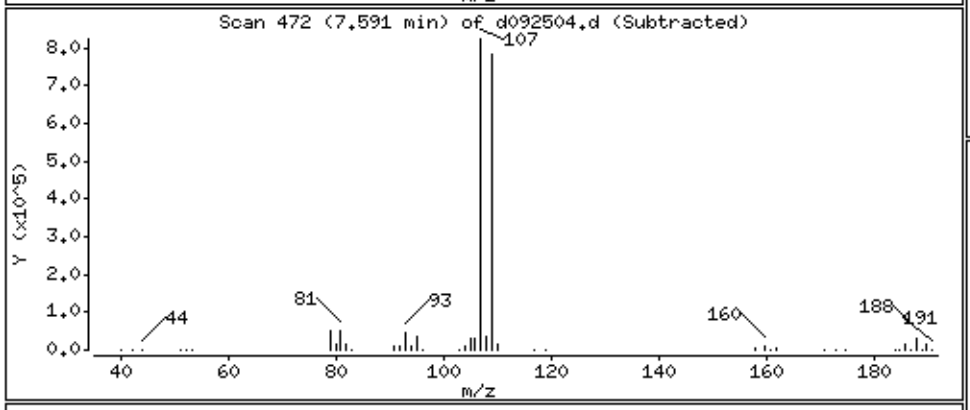
Column phase: RTx-624

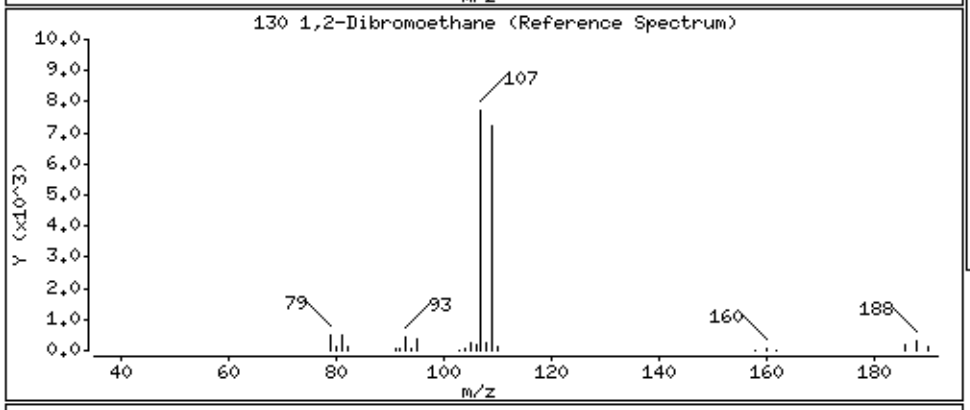
Column diameter: 0.53

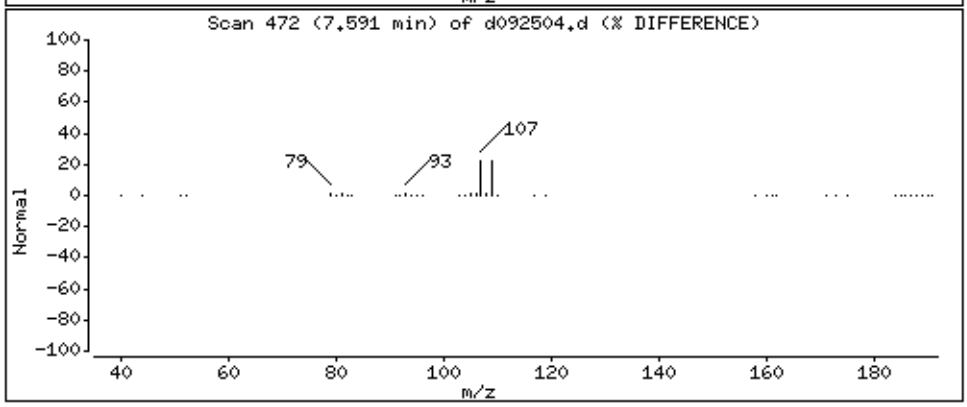
130 1,2-Dibromoethane

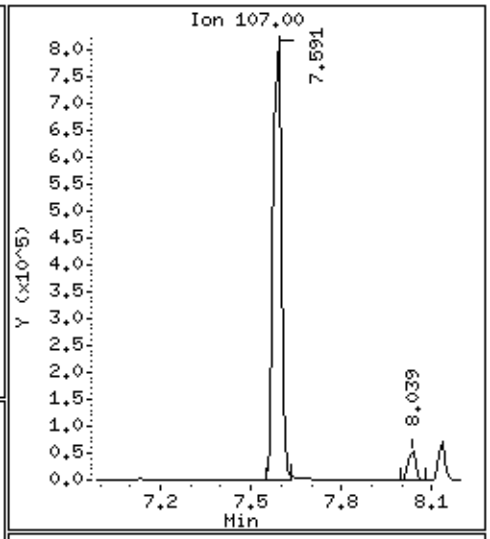
Concentration: 54.705 PPBV

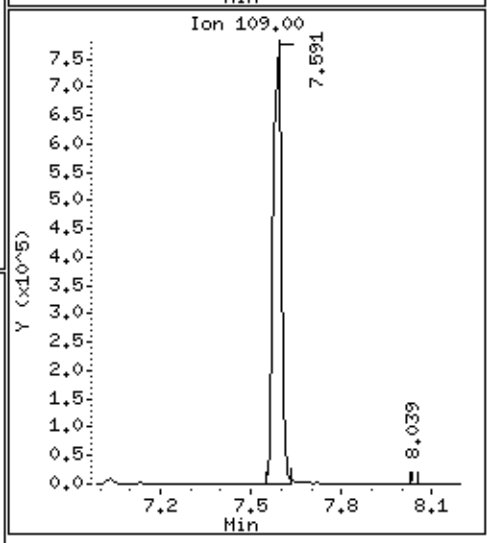












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

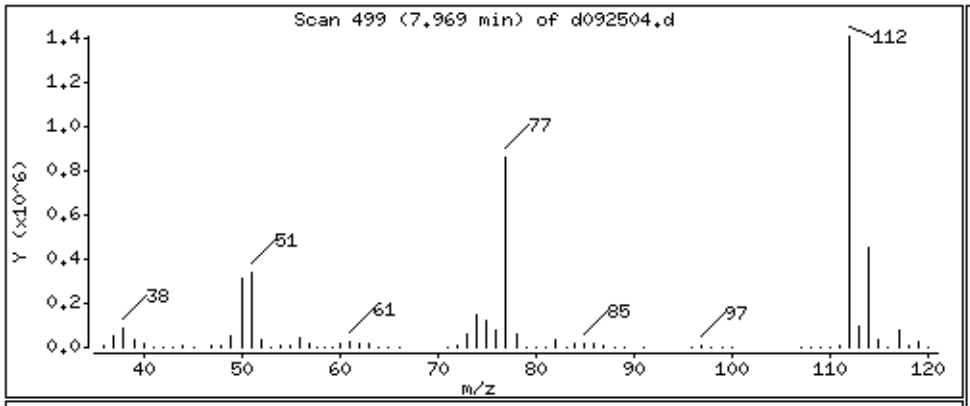
Operator: ccy

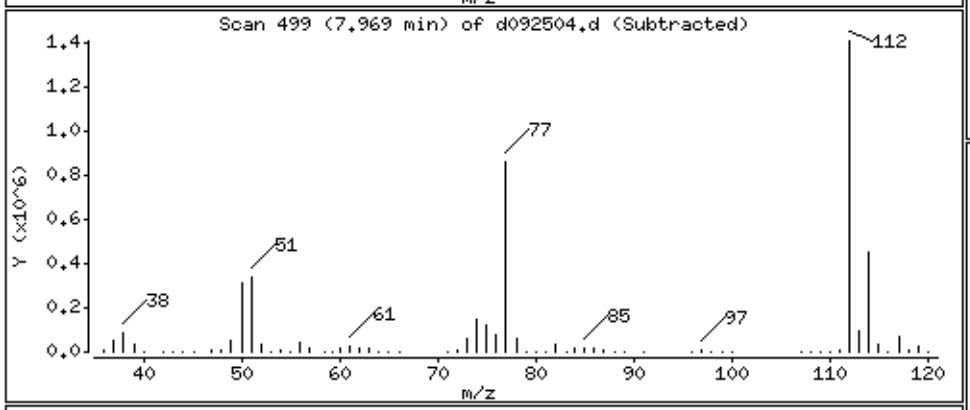
Column phase: RTx-624

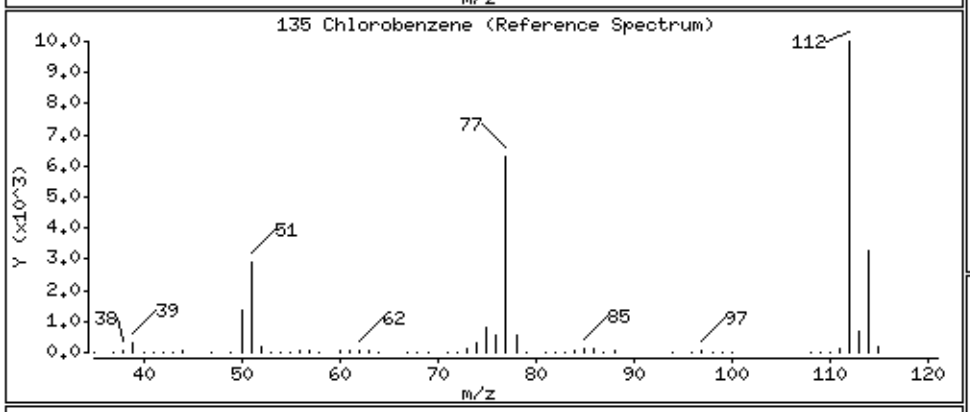
Column diameter: 0.53

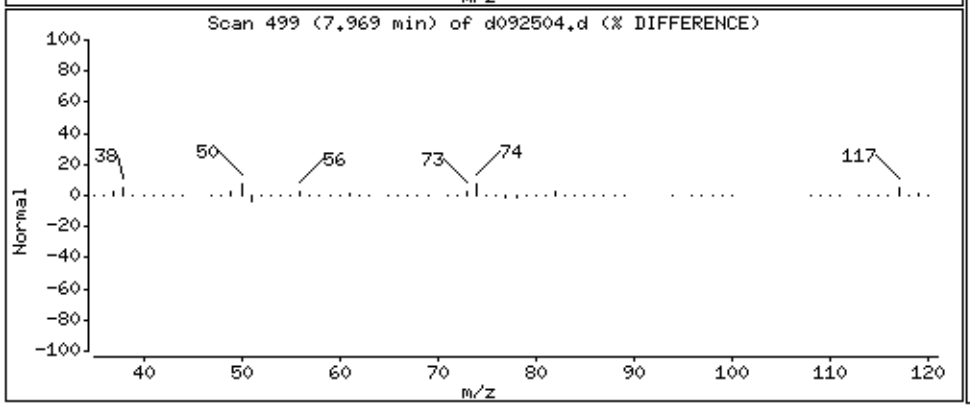
135 Chlorobenzene

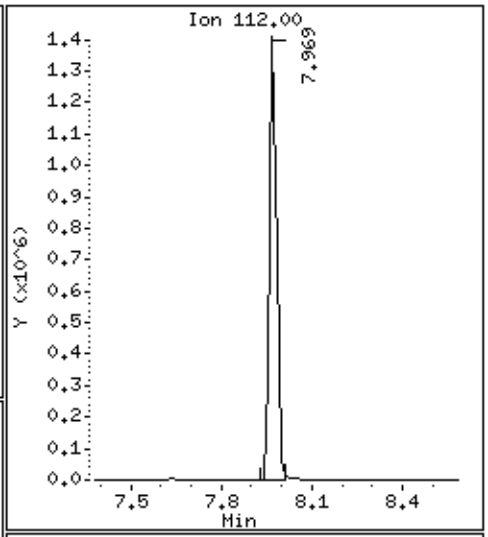
Concentration: 46.833 PPBV

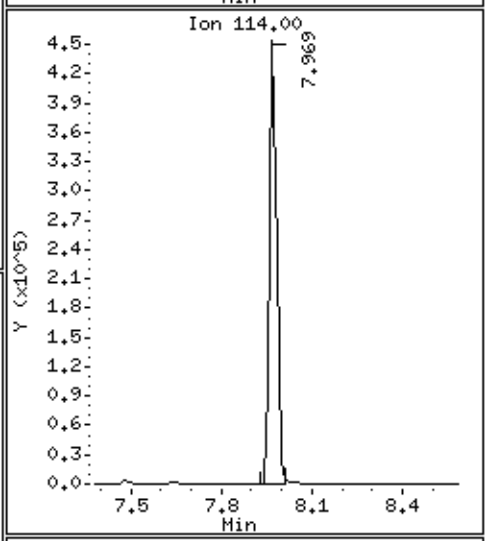


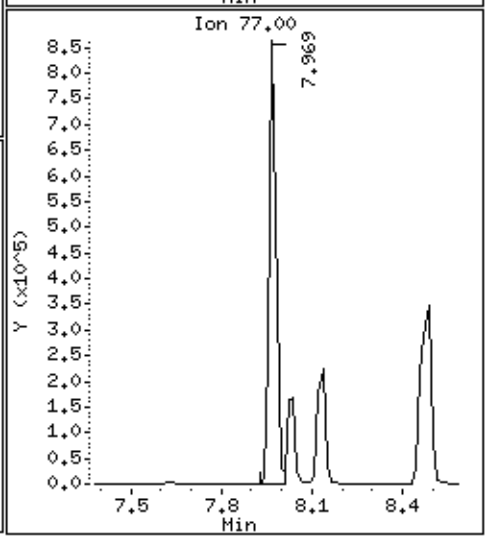












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

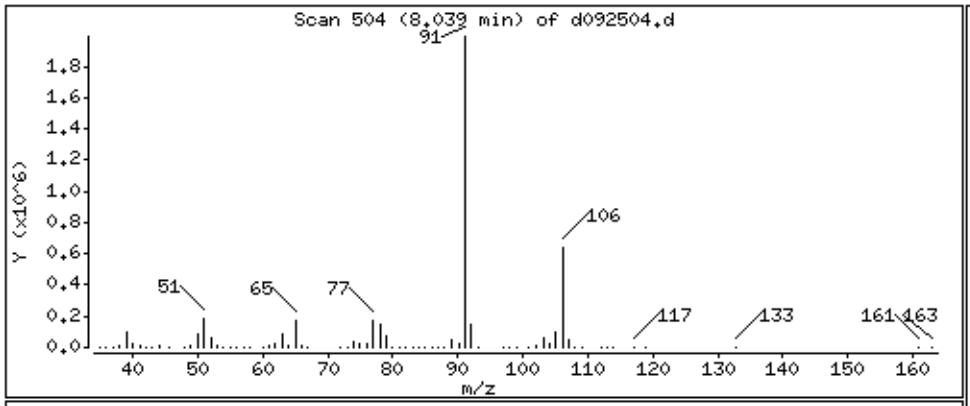
Operator: ccy

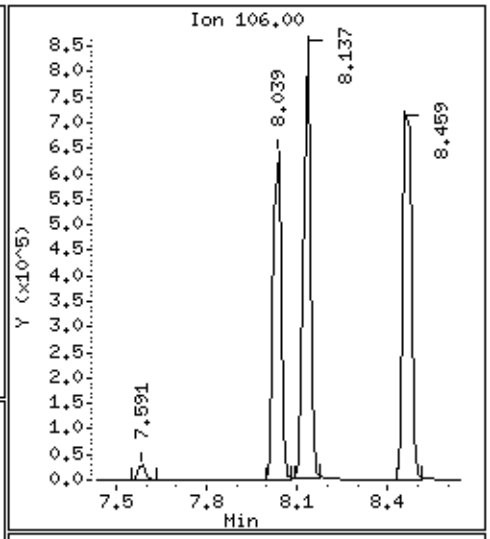
Column phase: RTx-624

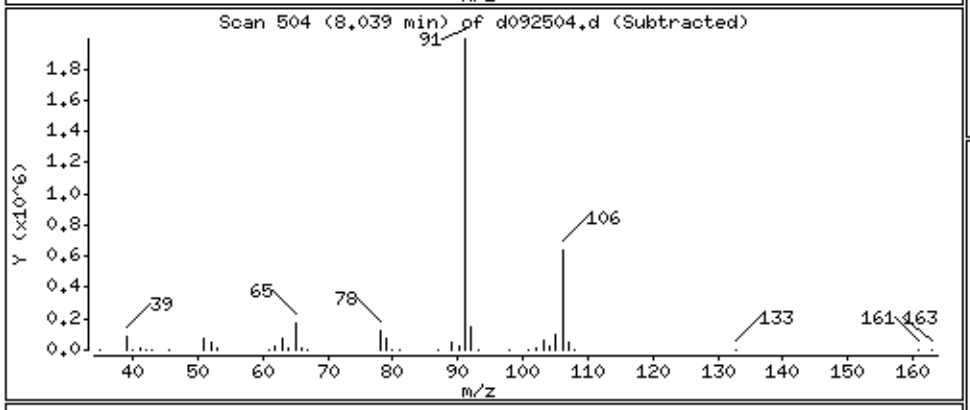
Column diameter: 0.53

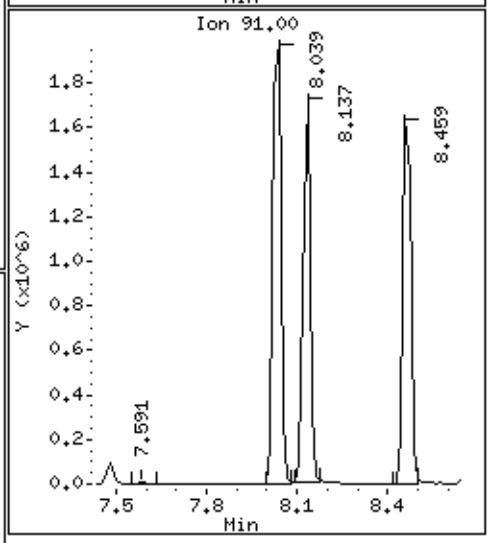
137 Ethyl Benzene

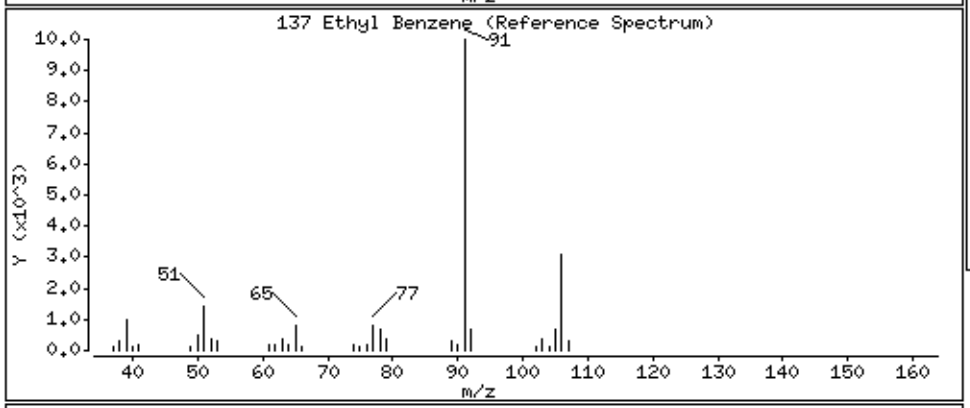
Concentration: 52.835 PPBV

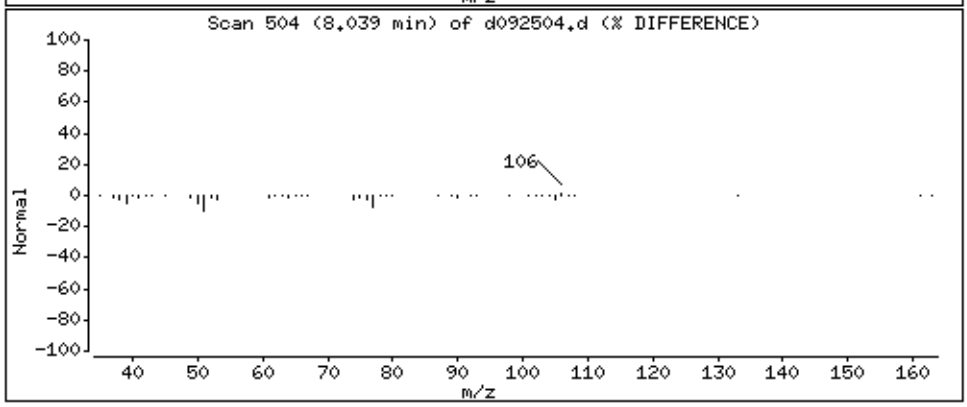












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

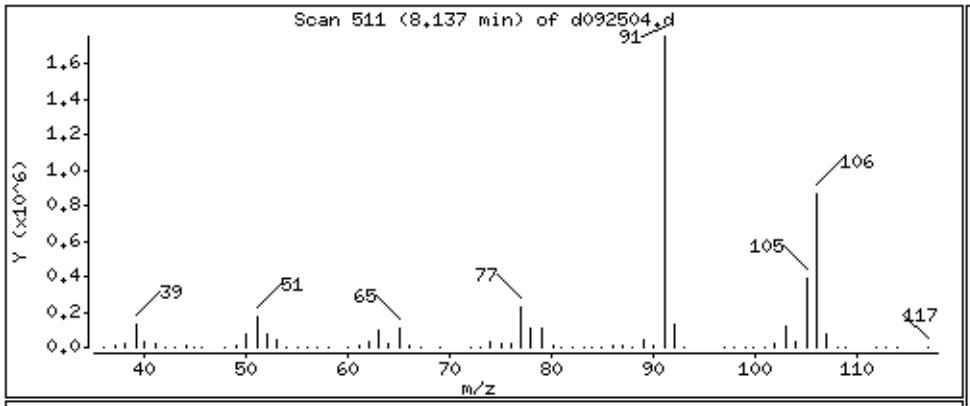
Operator: ccy

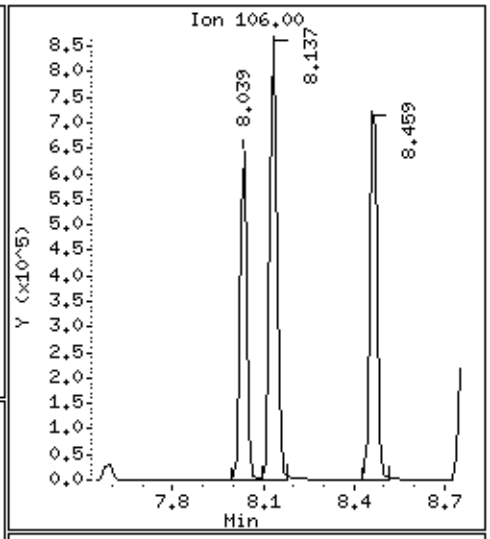
Column phase: RTx-624

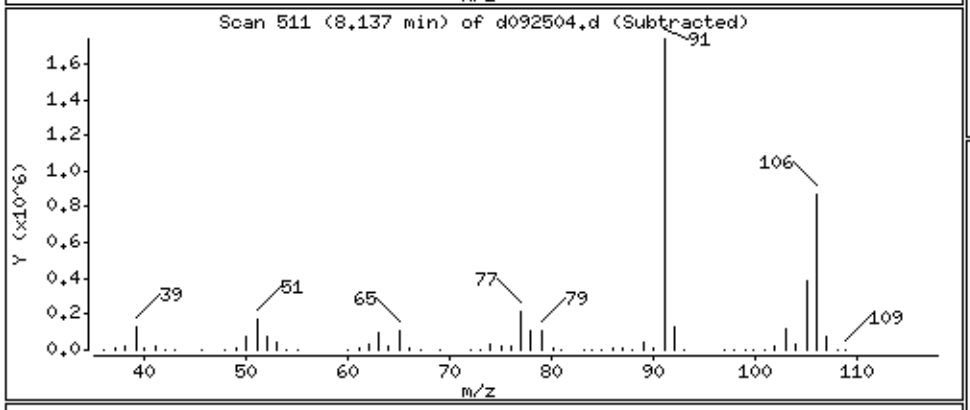
Column diameter: 0.53

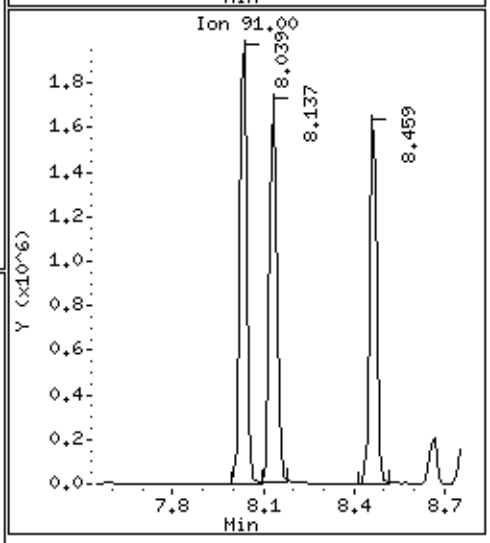
140 m,p-Xylene

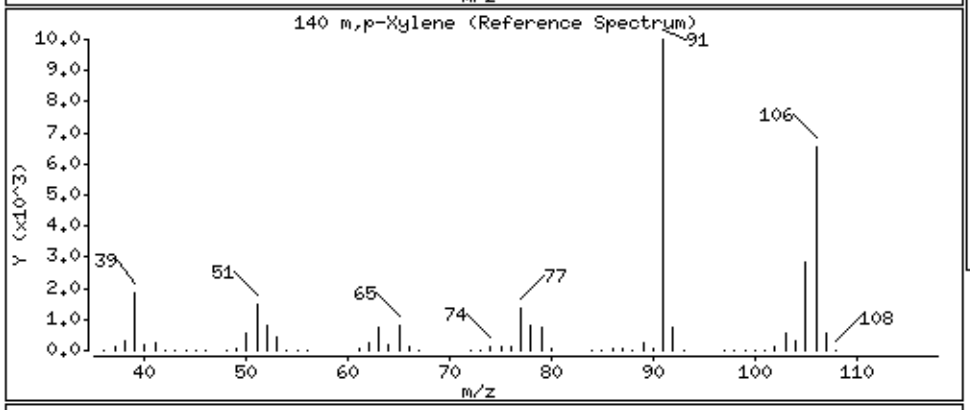
Concentration: 51.560 PPBV

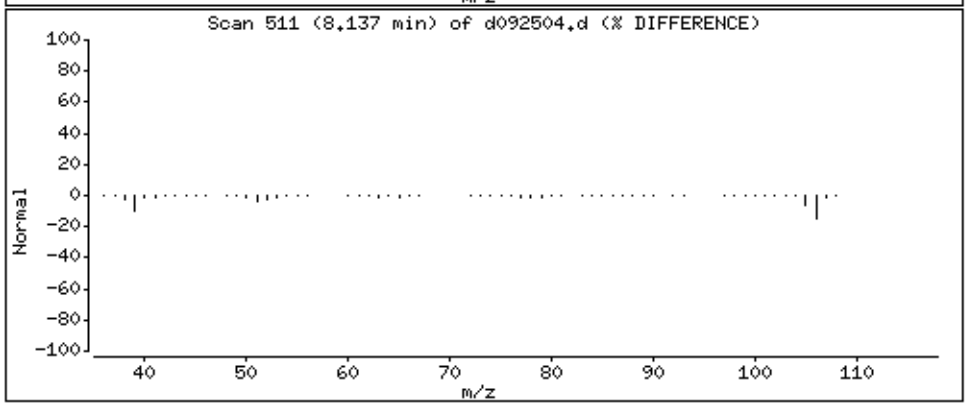












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

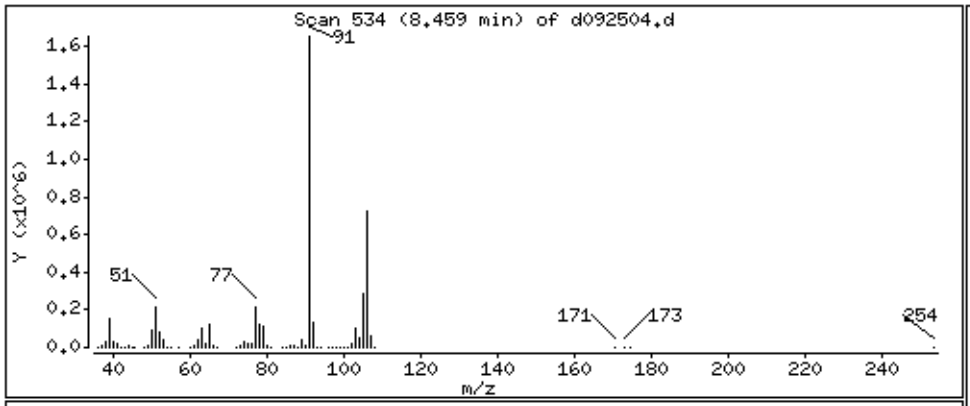
Operator: ccy

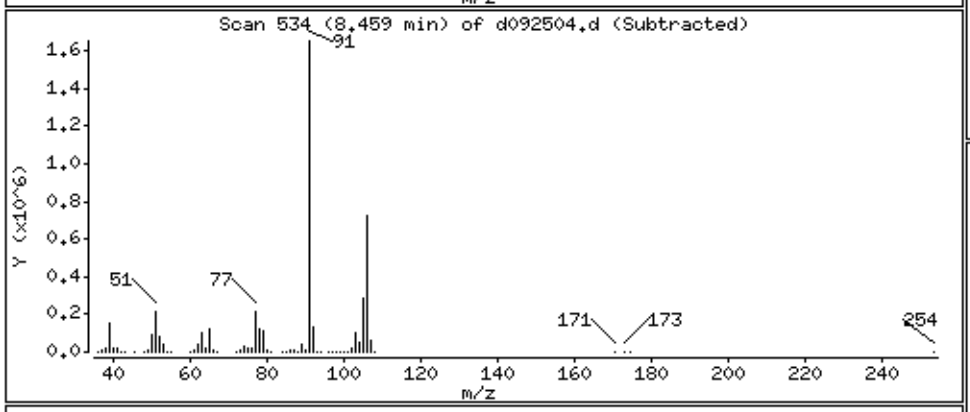
Column phase: RTx-624

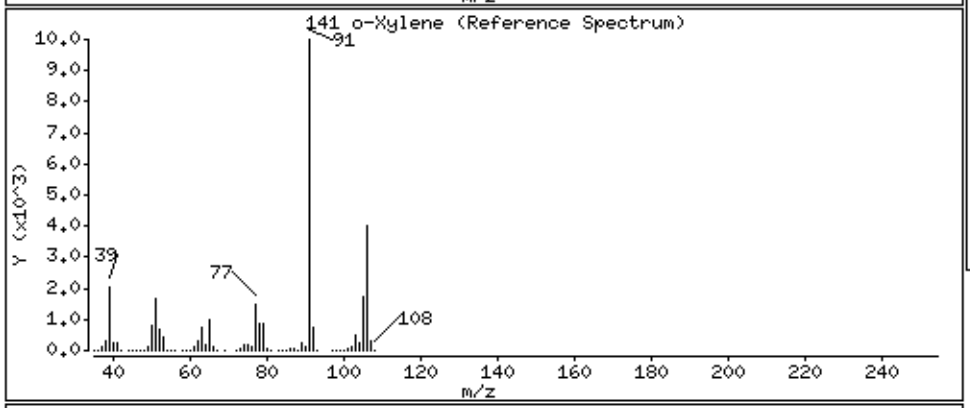
Column diameter: 0.53

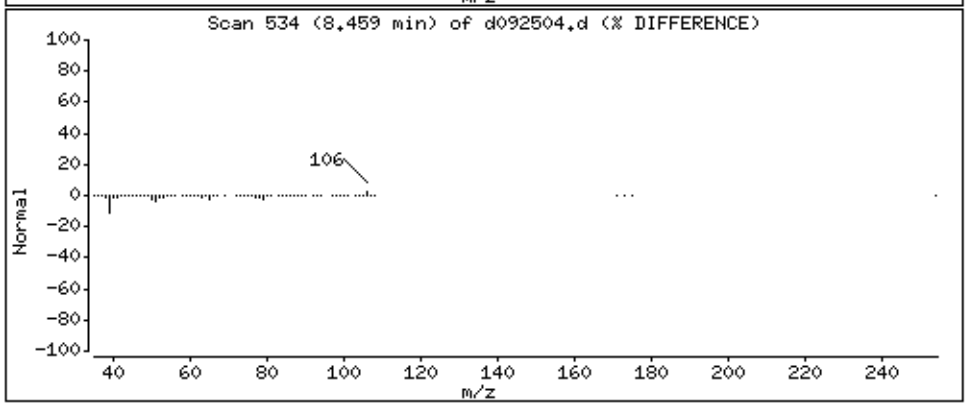
141 o-Xylene

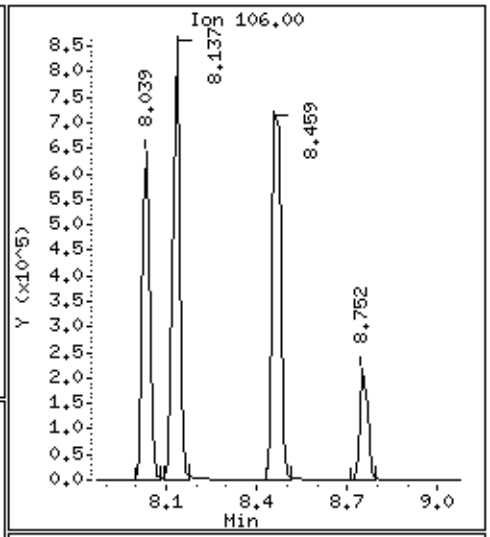
Concentration: 51.706 PPBV

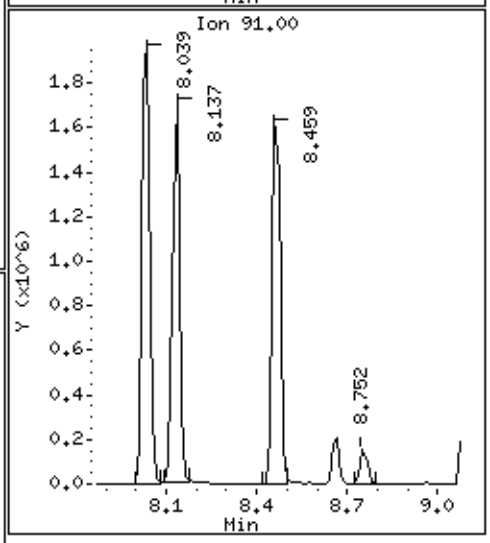












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

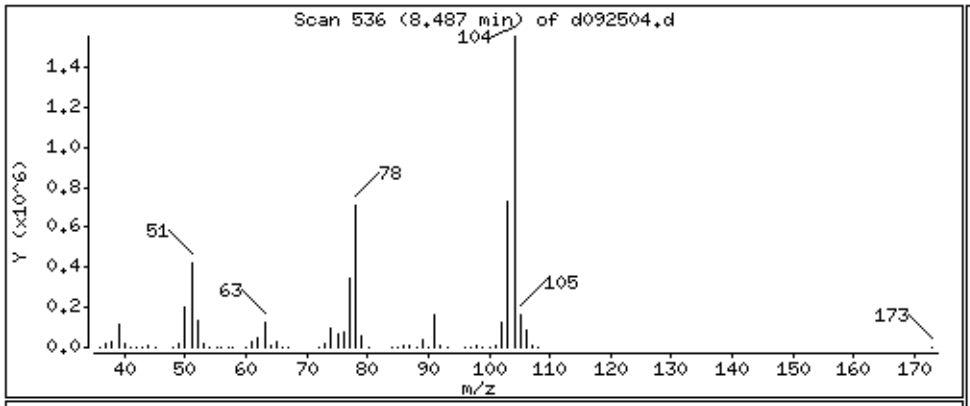
Operator: ccy

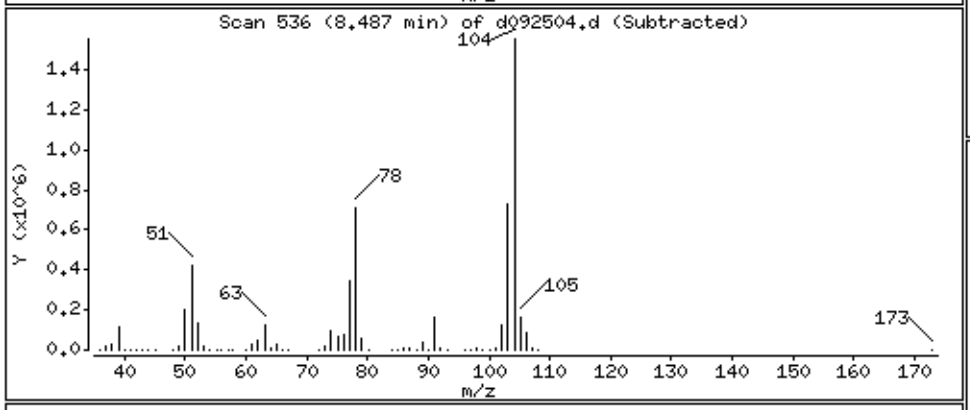
Column phase: RTx-624

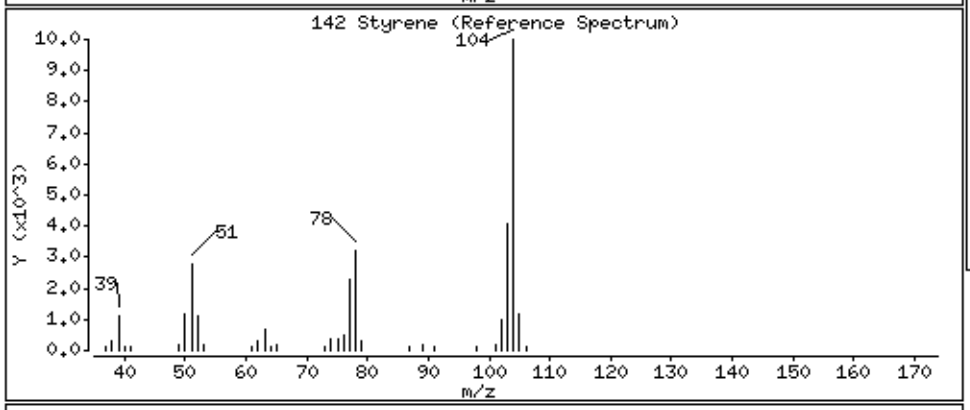
Column diameter: 0.53

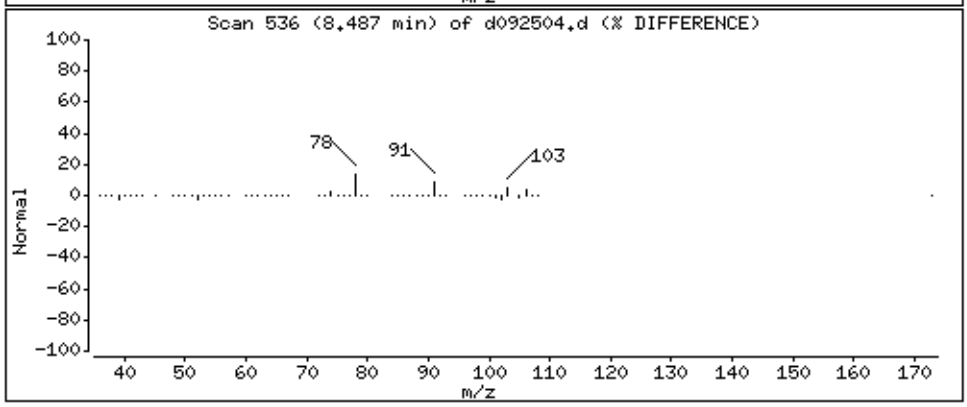
142 Styrene

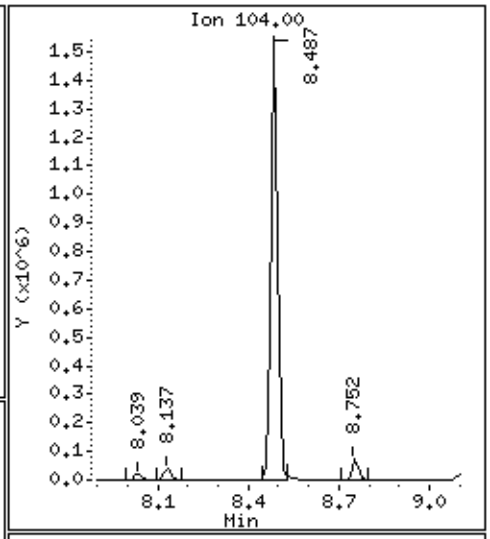
Concentration: 53.032 PPBV

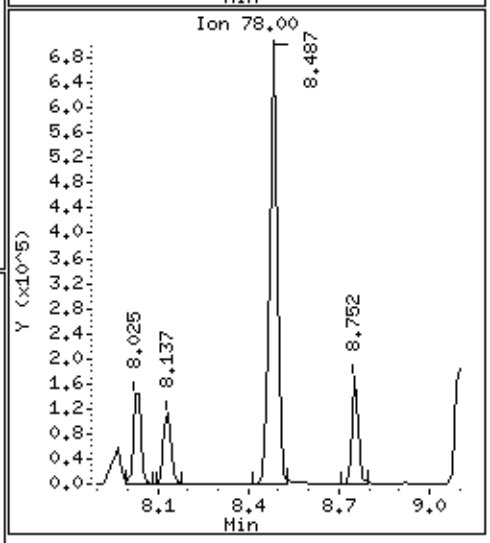












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

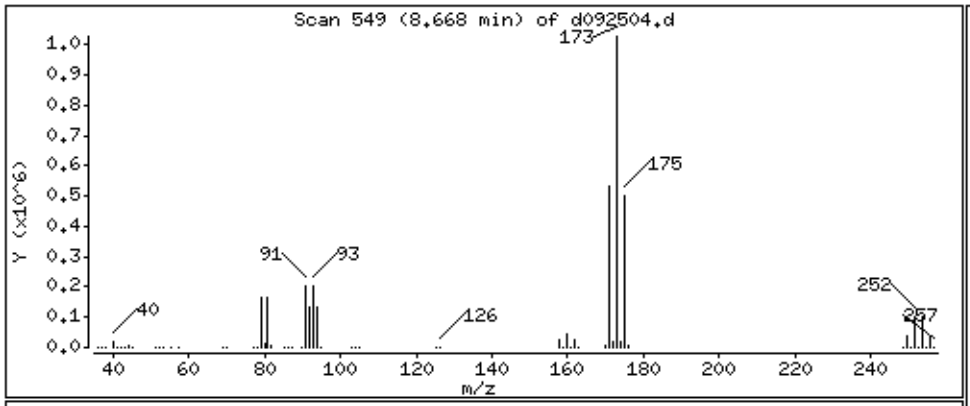
Operator: ccy

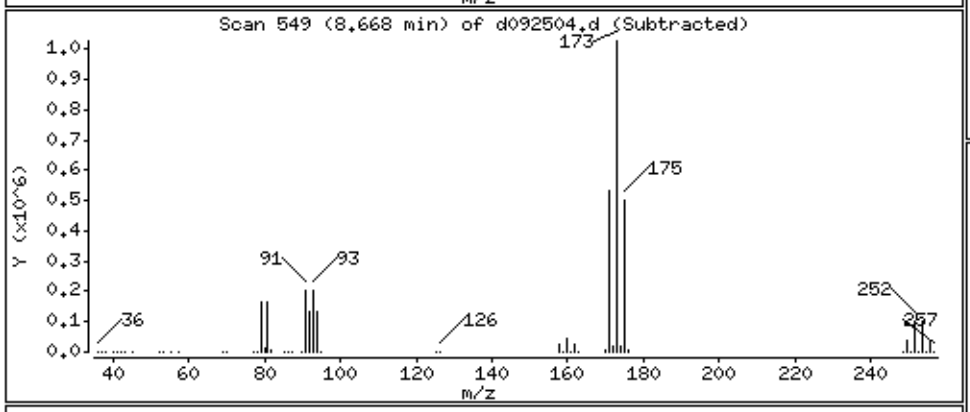
Column phase: RTx-624

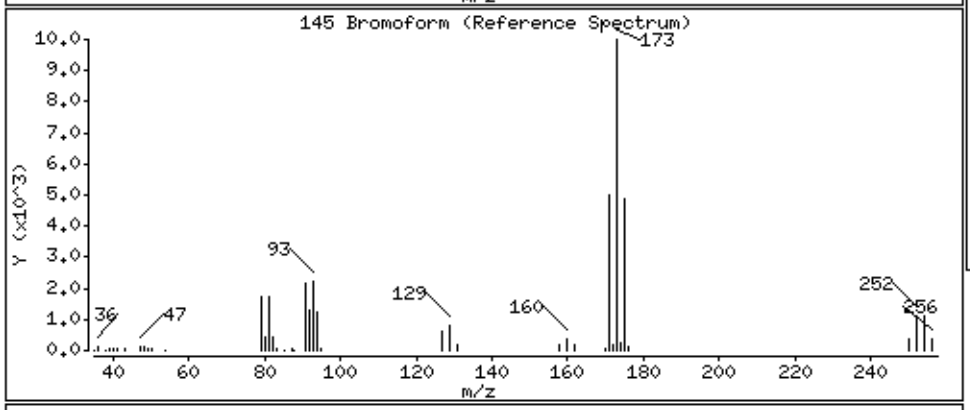
Column diameter: 0.53

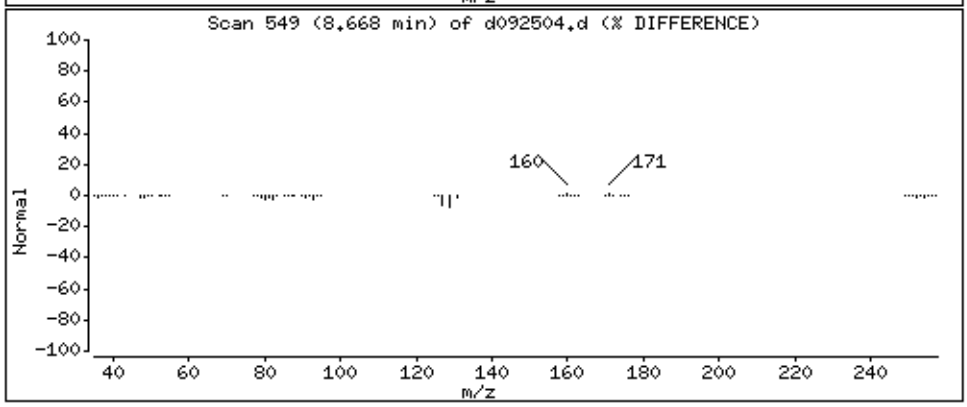
145 Bromoform

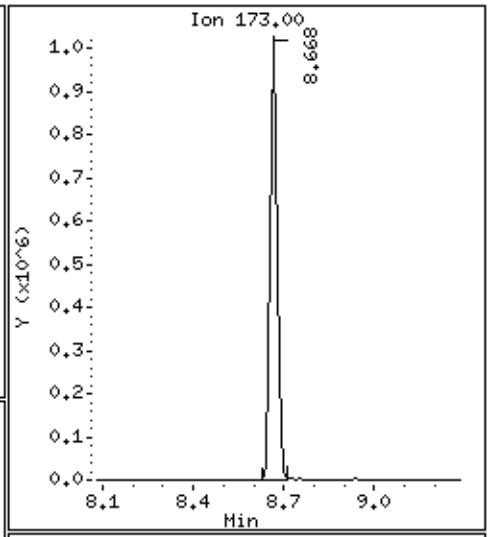
Concentration: 56.317 PPBV

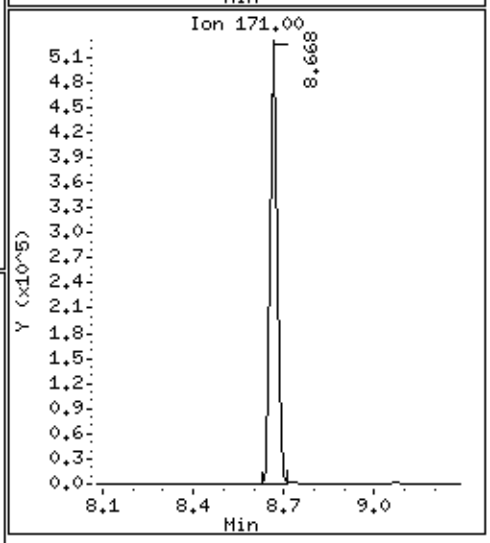












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

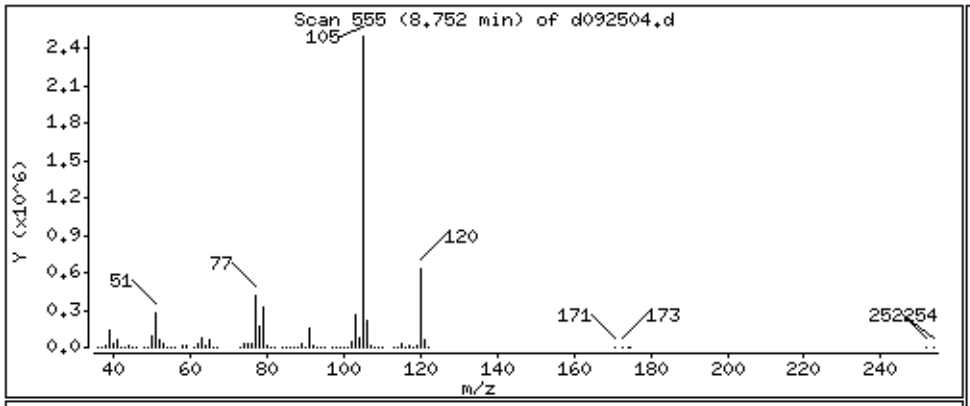
Operator: ccy

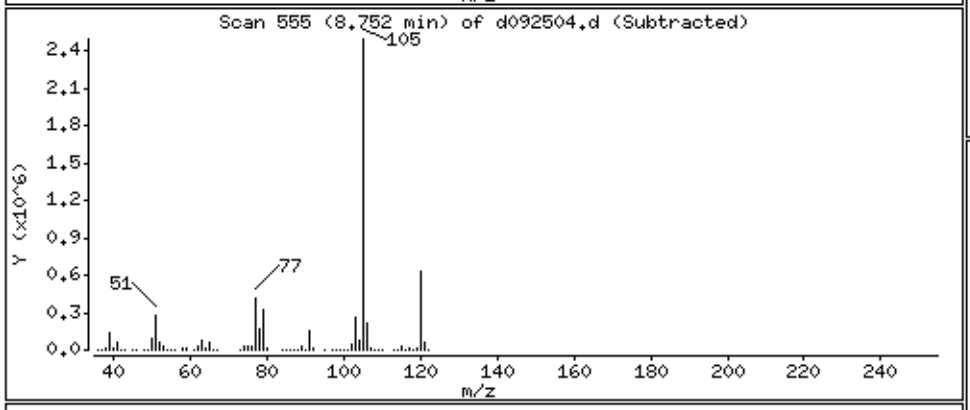
Column phase: RTx-624

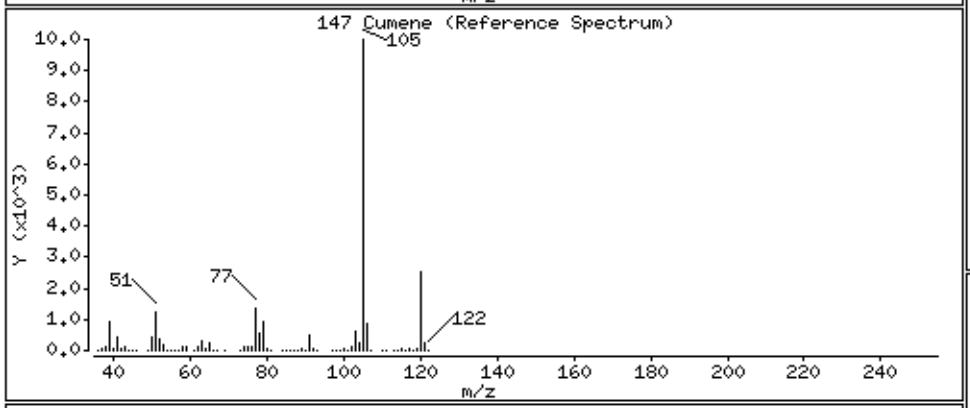
Column diameter: 0.53

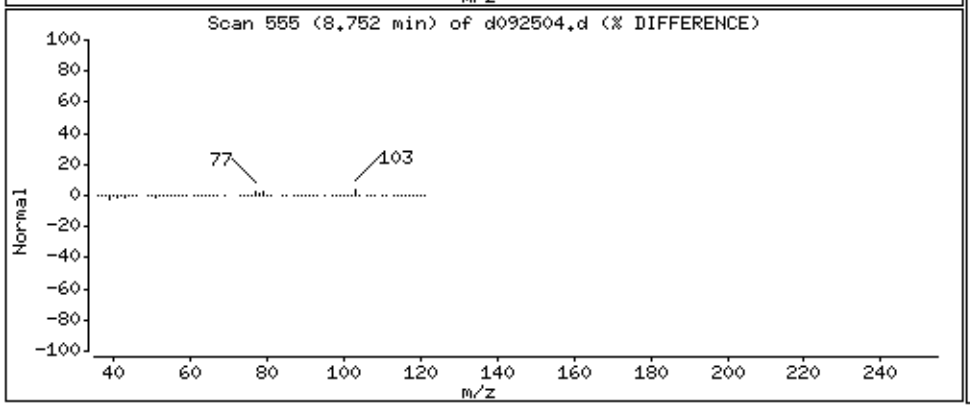
147 Cumene

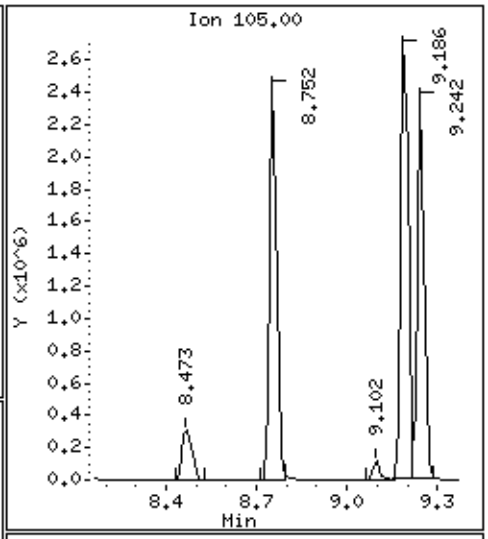
Concentration: 51.926 PPBV

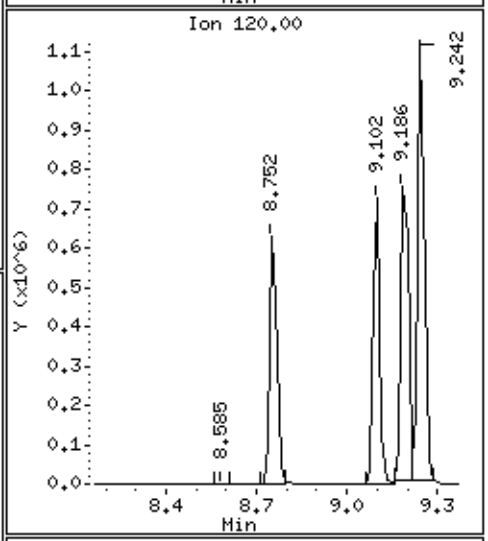


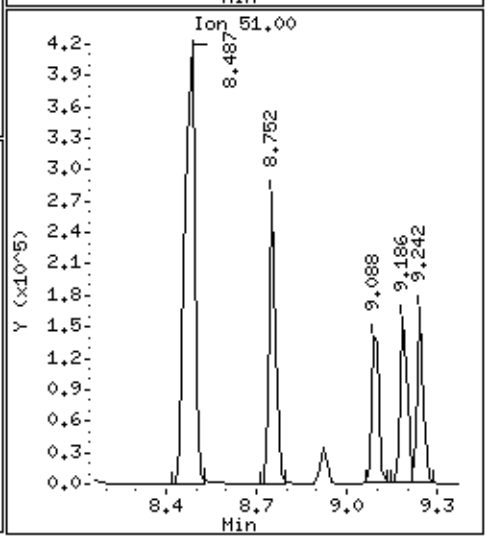












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

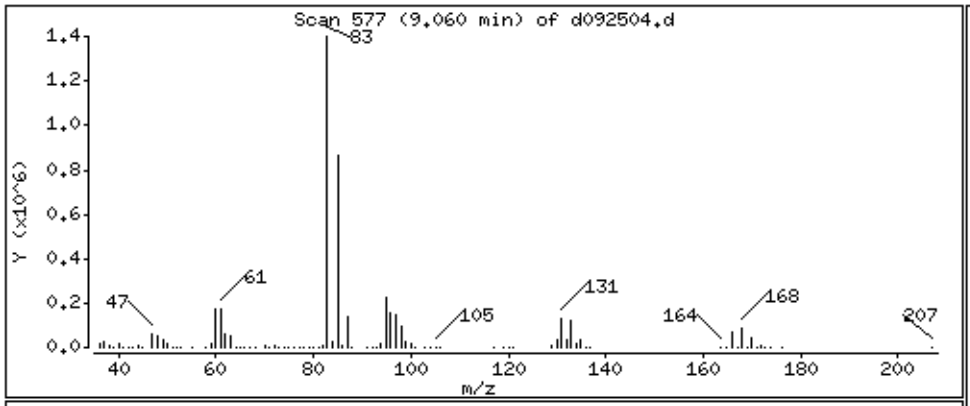
Operator: ccy

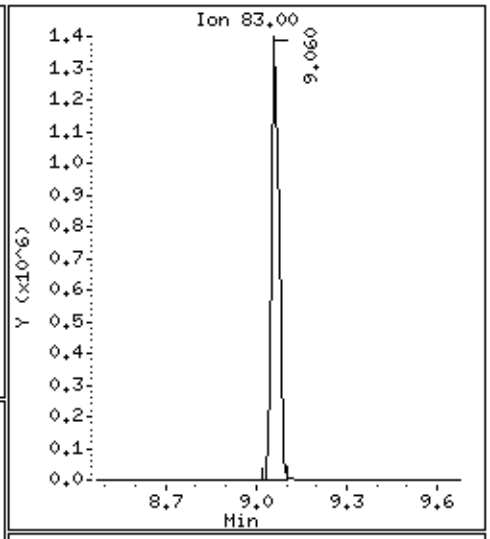
Column phase: RTx-624

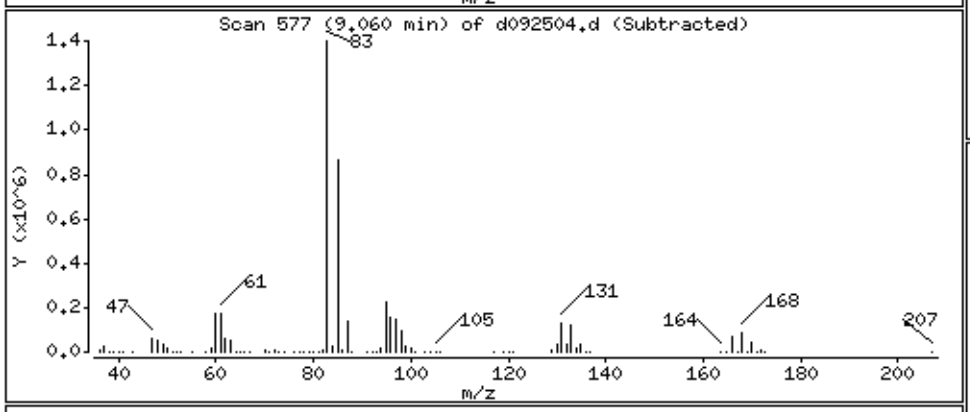
Column diameter: 0.53

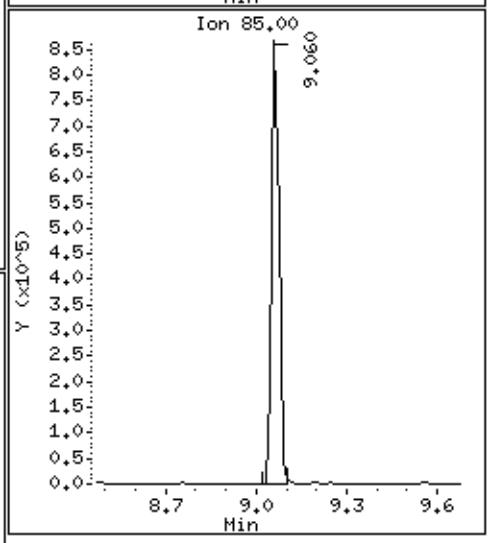
151 1,1,2,2-Tetrachloroethane

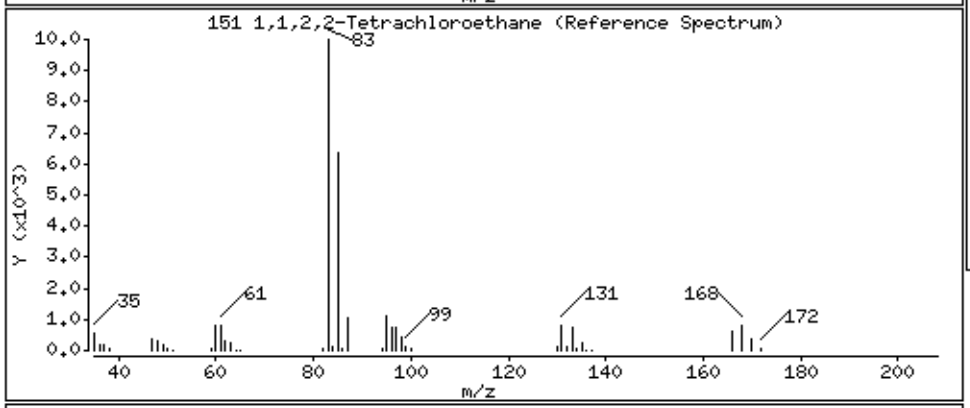
Concentration: 52.545 PPBV

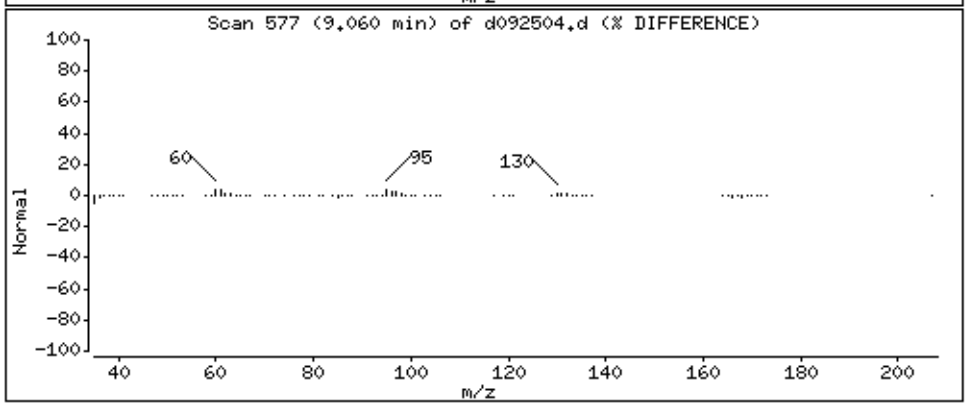












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

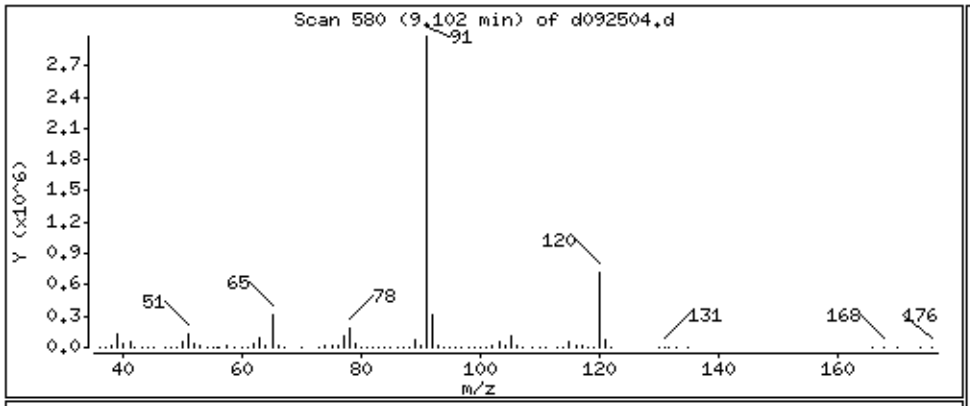
Operator: ccy

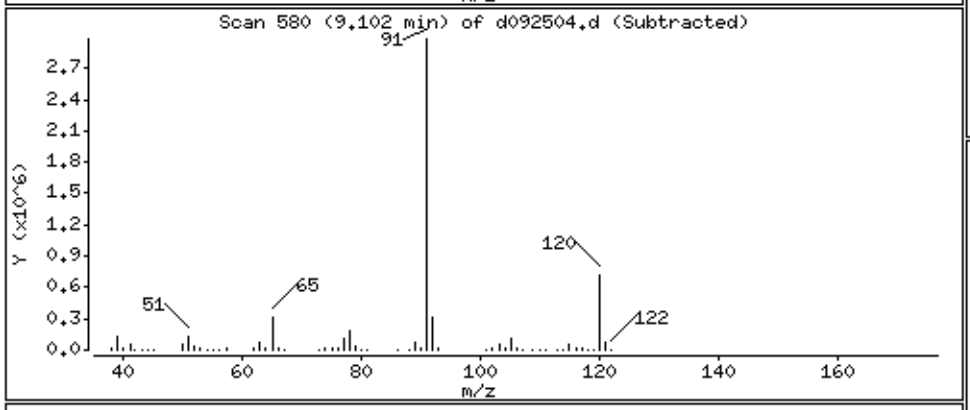
Column phase: RTx-624

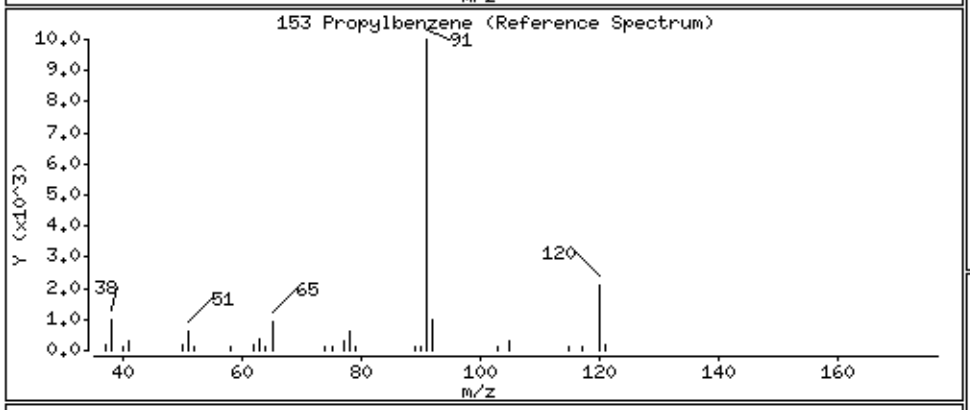
Column diameter: 0.53

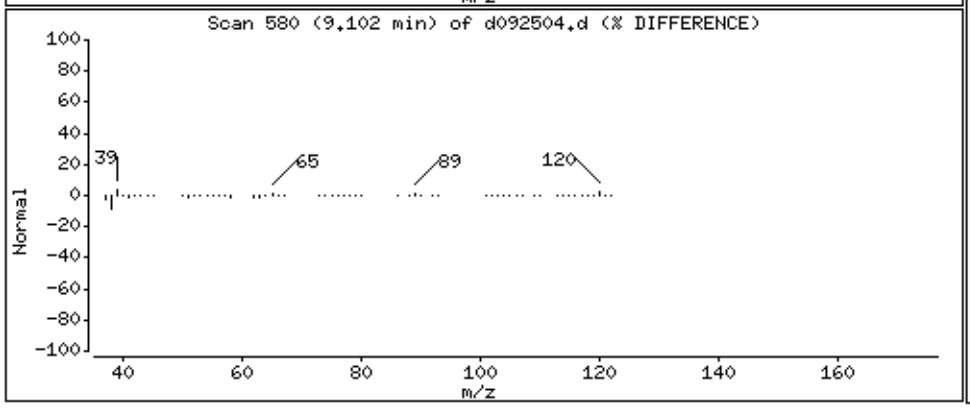
153 Propylbenzene

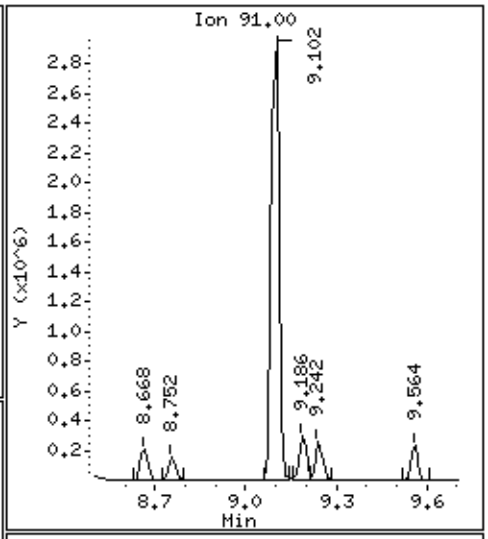
Concentration: 51.719 PPBV

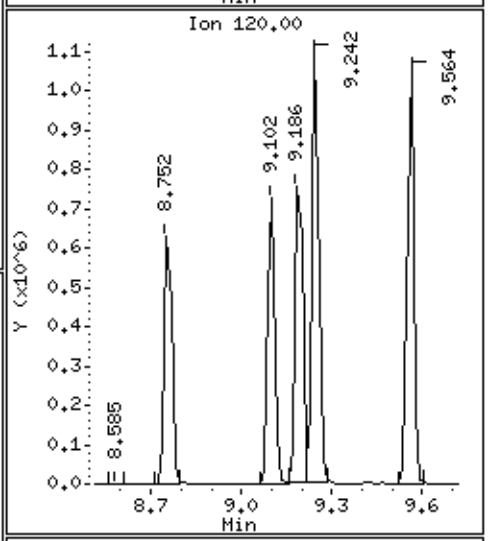


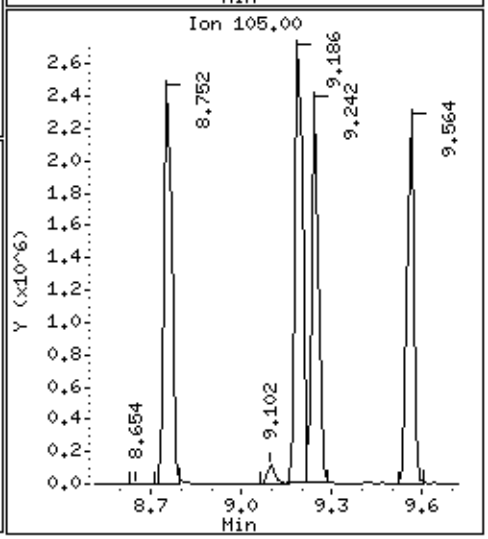












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

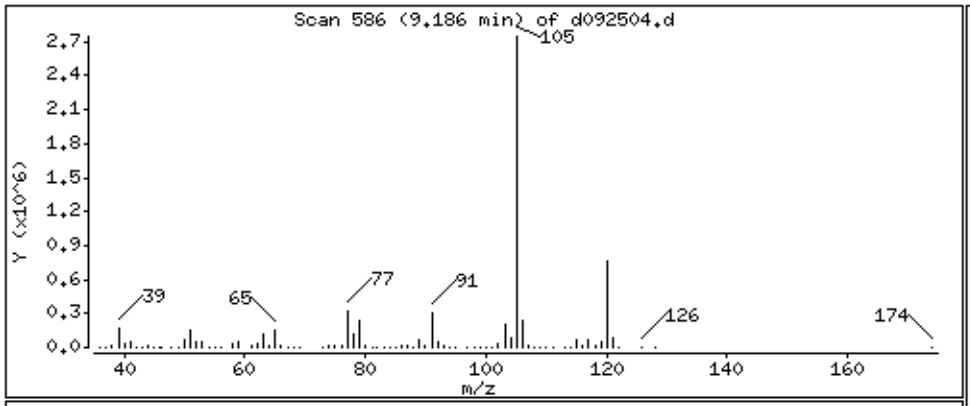
Operator: ccy

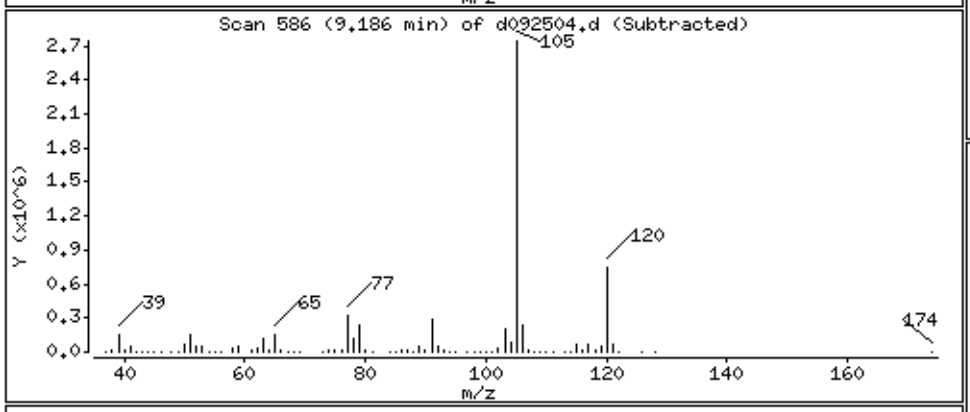
Column phase: RTx-624

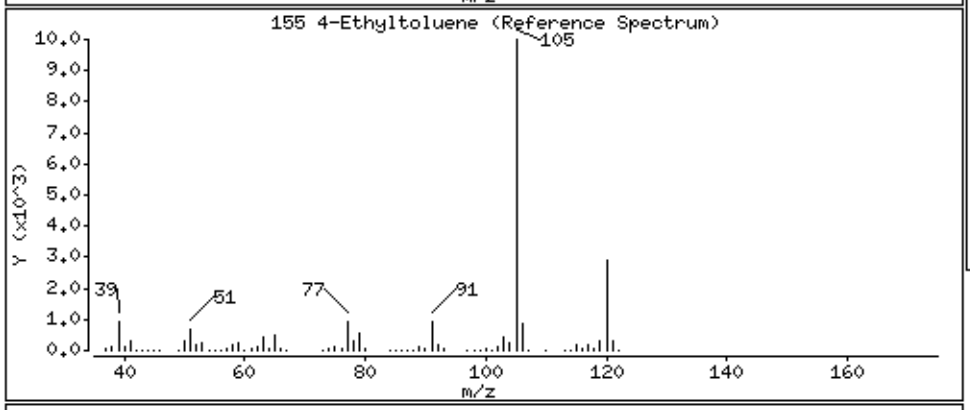
Column diameter: 0.53

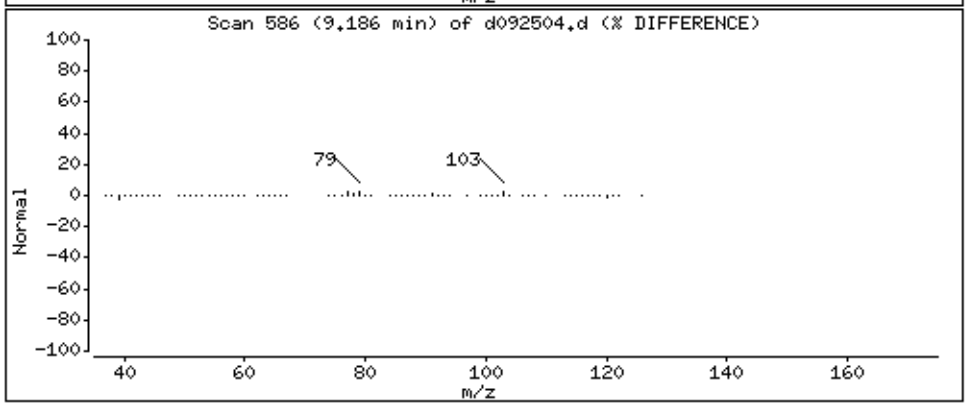
155 4-Ethyltoluene

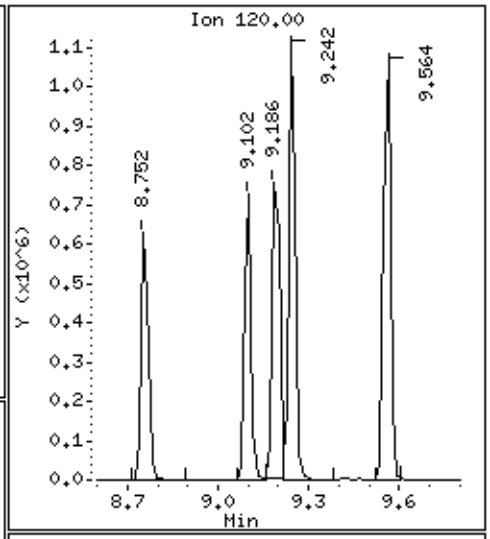
Concentration: 51.082 PPBV

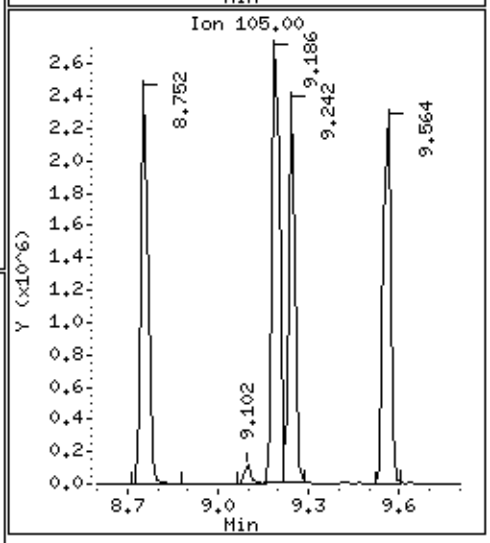












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

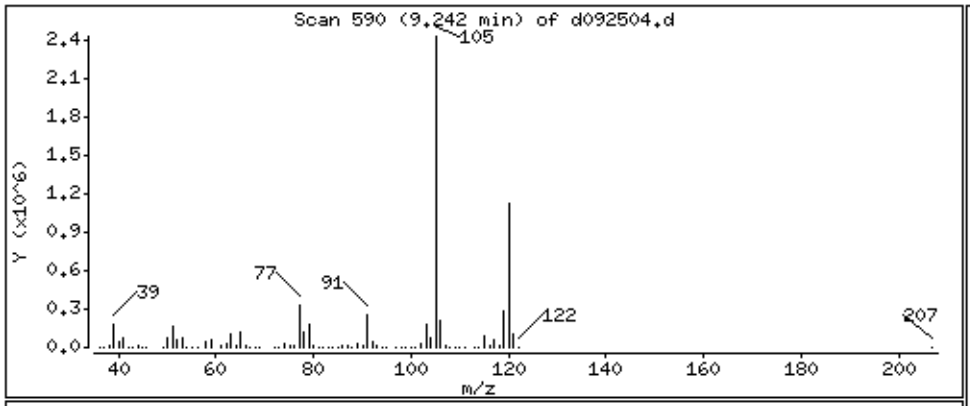
Operator: ccy

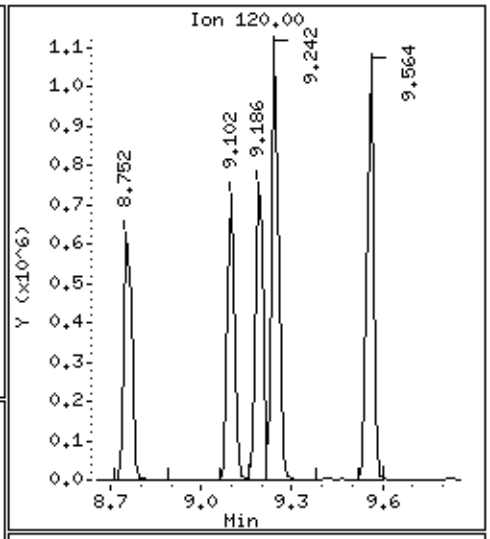
Column phase: RTx-624

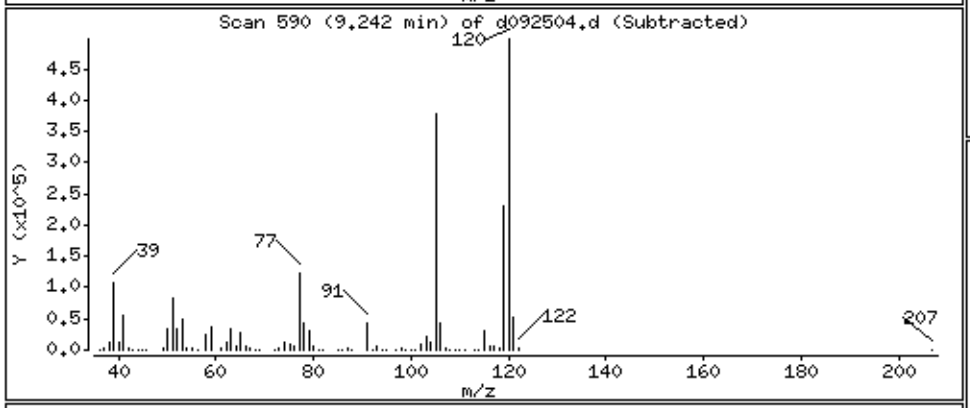
Column diameter: 0.53

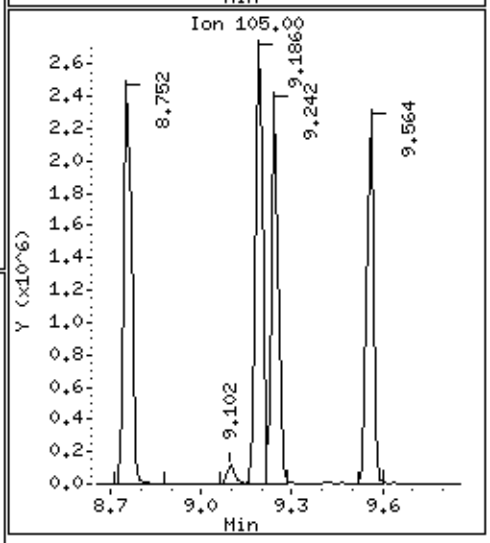
156 1,3,5-Trimethylbenzene

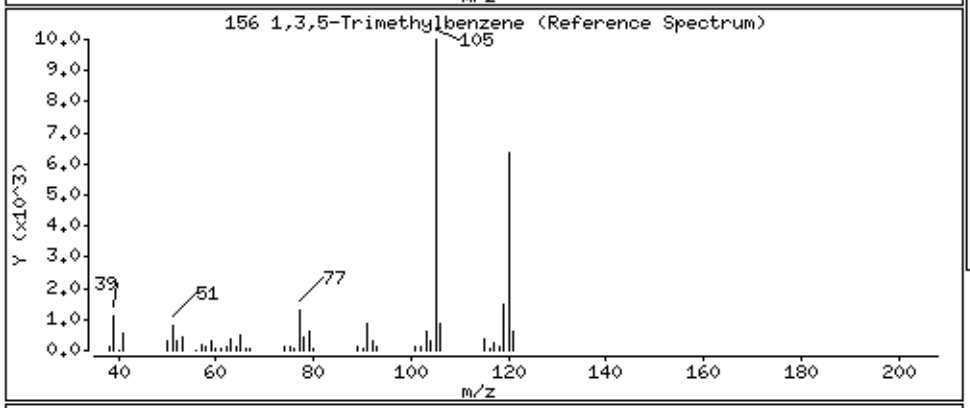
Concentration: 51.714 PPBV

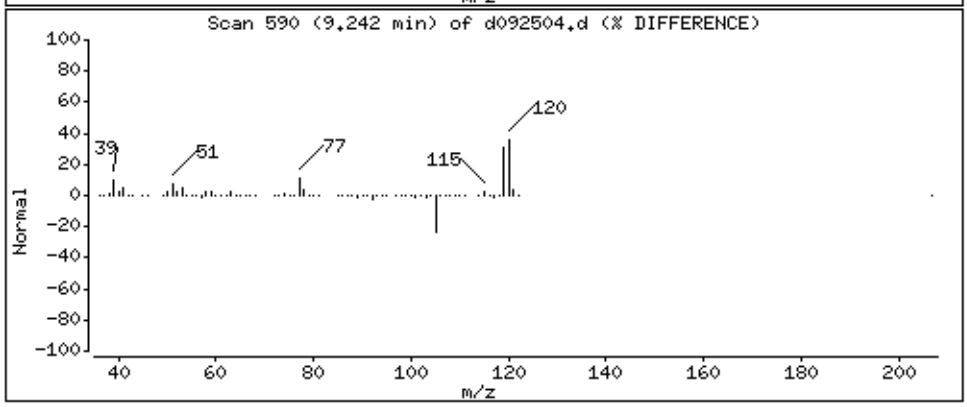












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

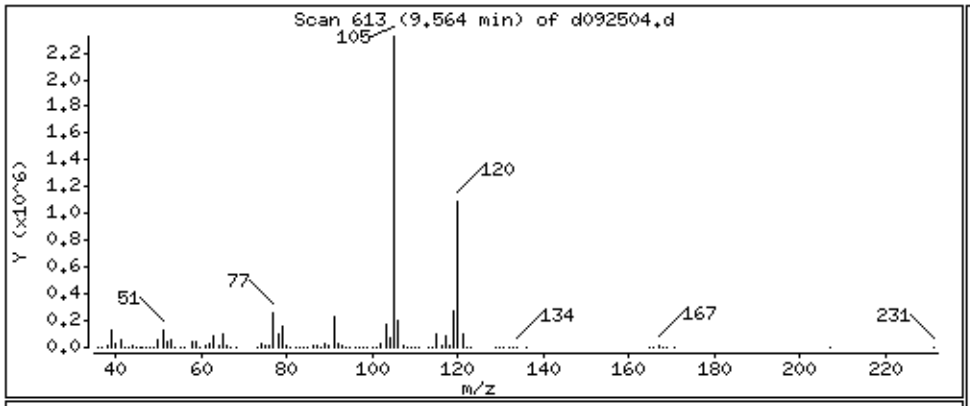
Operator: ccy

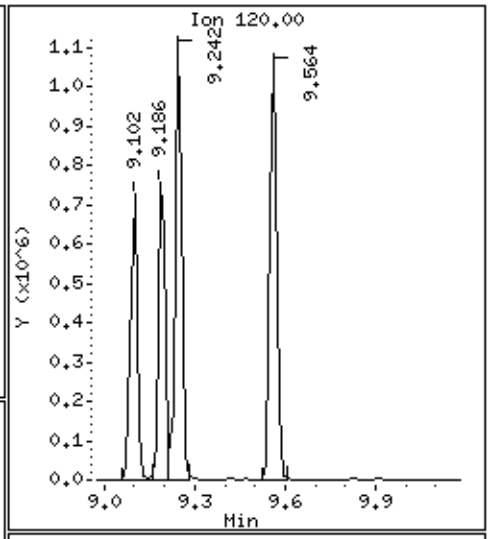
Column phase: RTx-624

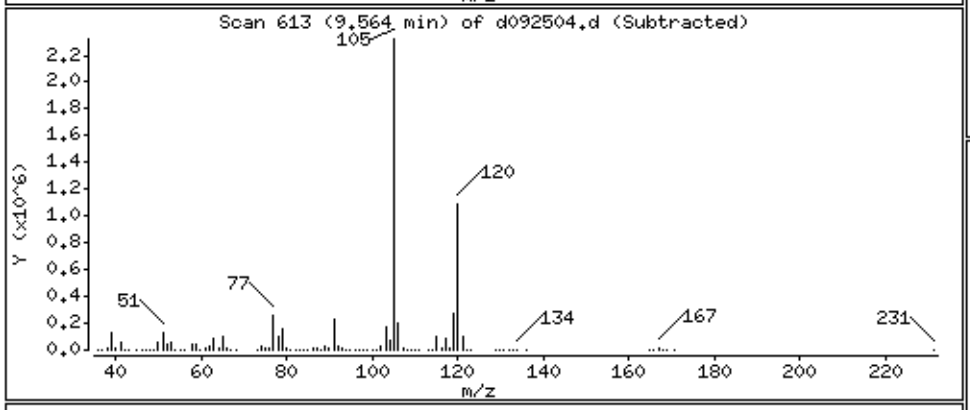
Column diameter: 0.53

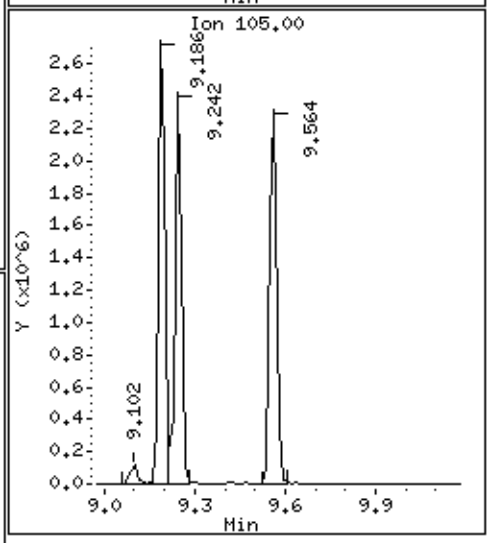
162 1,2,4-Trimethylbenzene

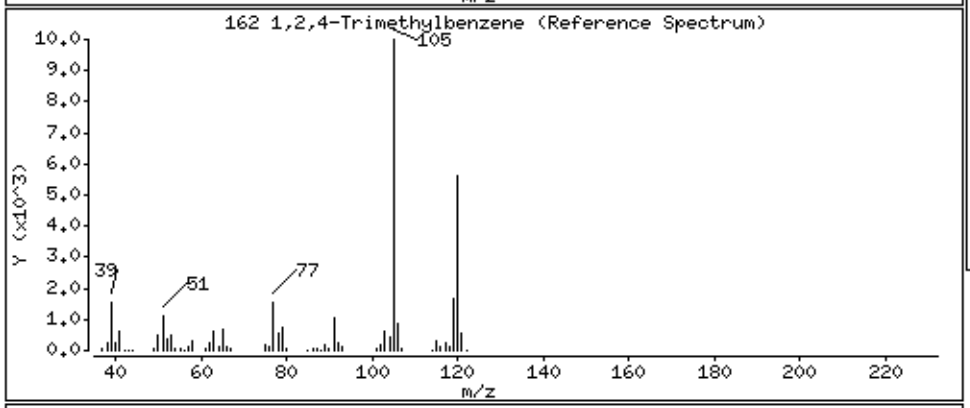
Concentration: 52.742 PPBV

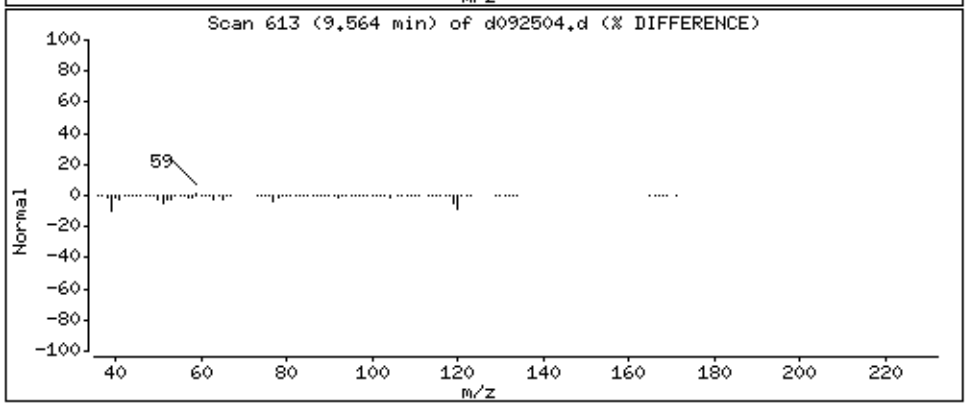












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

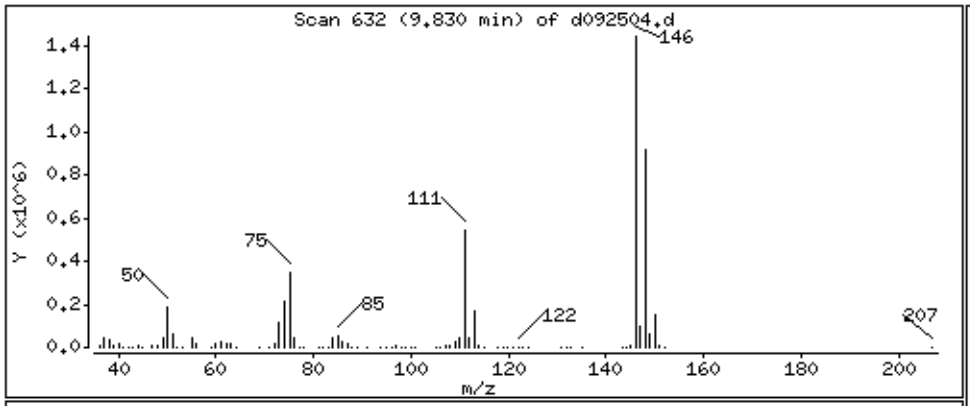
Operator: ccy

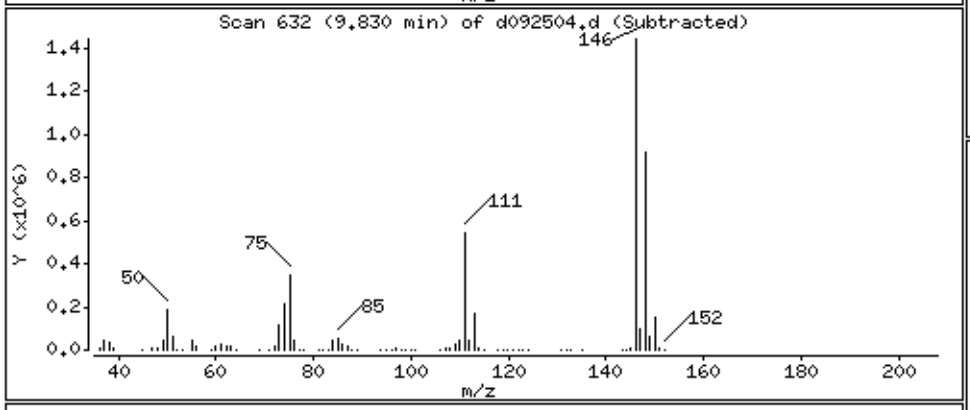
Column phase: RTx-624

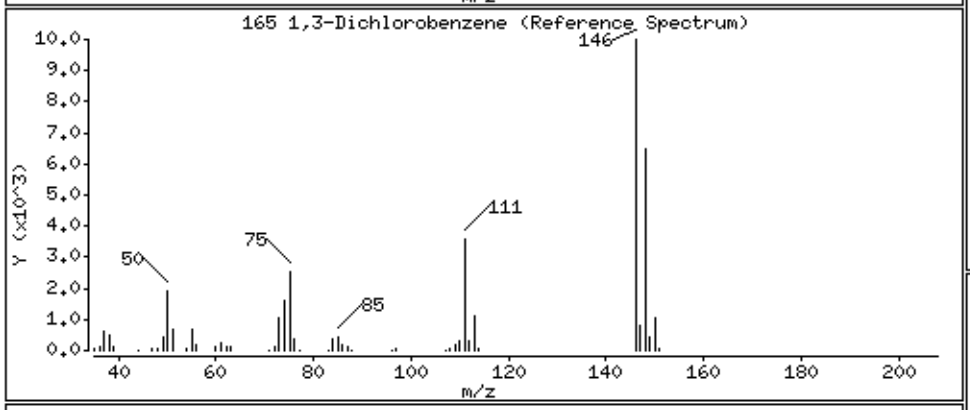
Column diameter: 0.53

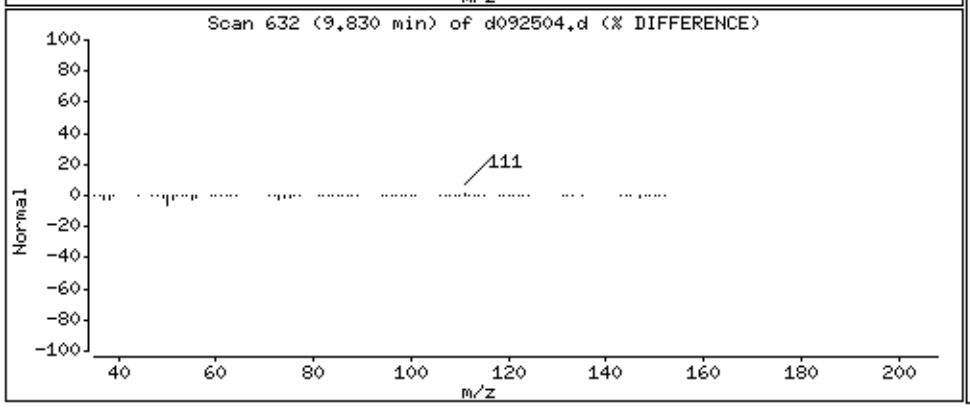
165 1,3-Dichlorobenzene

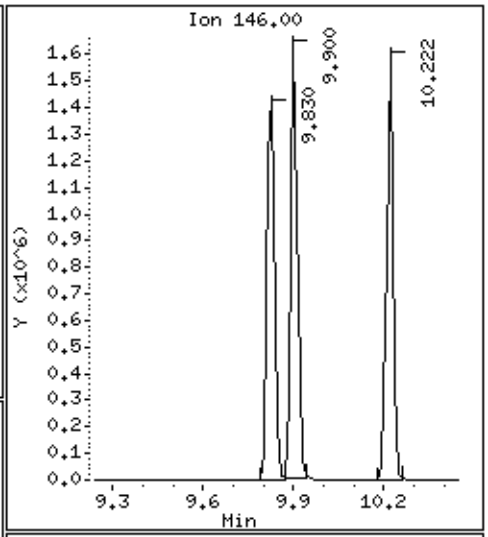
Concentration: 52.224 PPBV

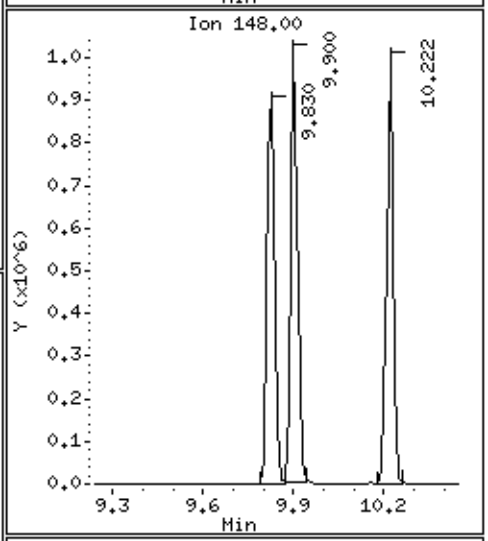


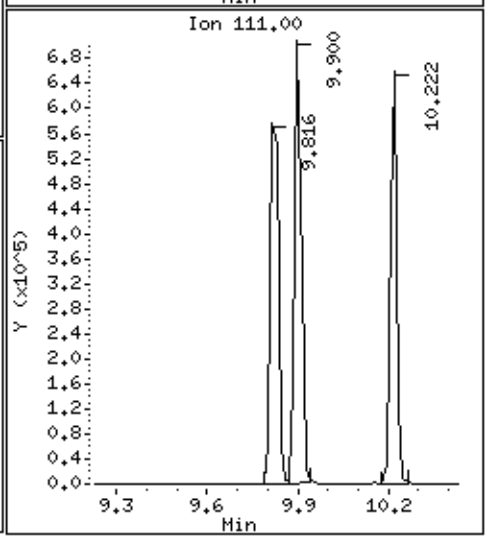












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

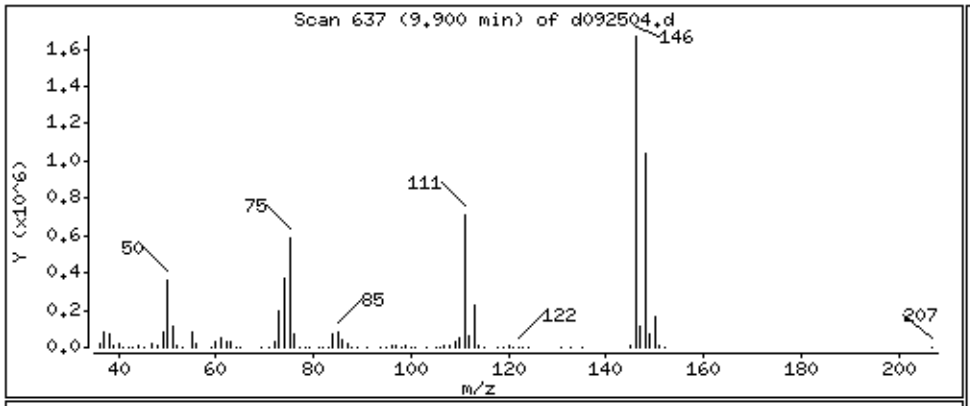
Operator: ccy

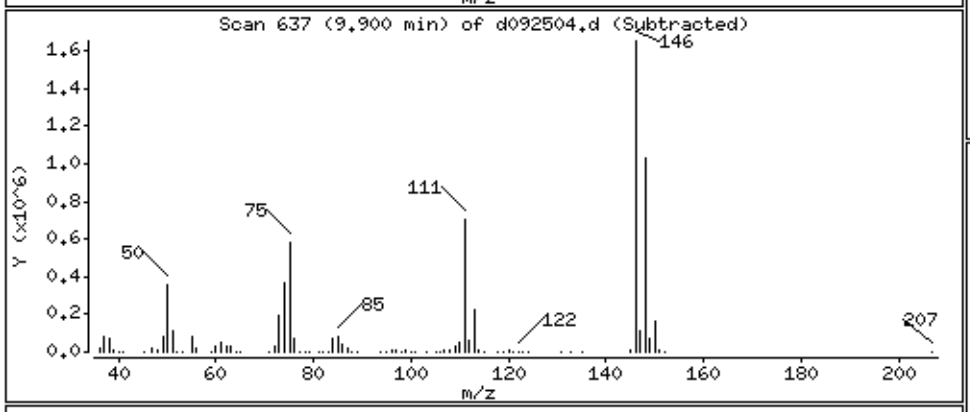
Column phase: RTx-624

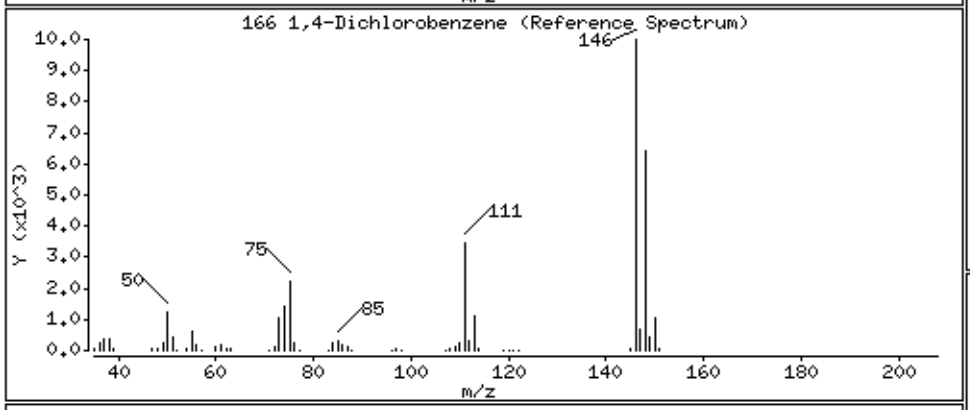
Column diameter: 0.53

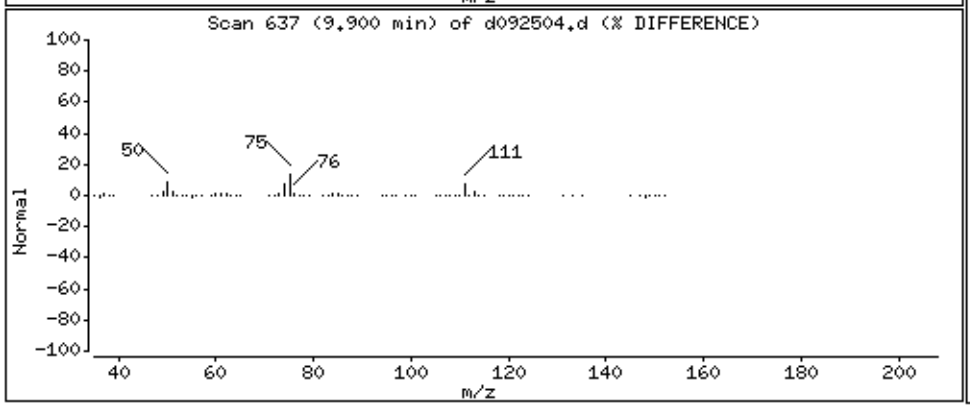
166 1,4-Dichlorobenzene

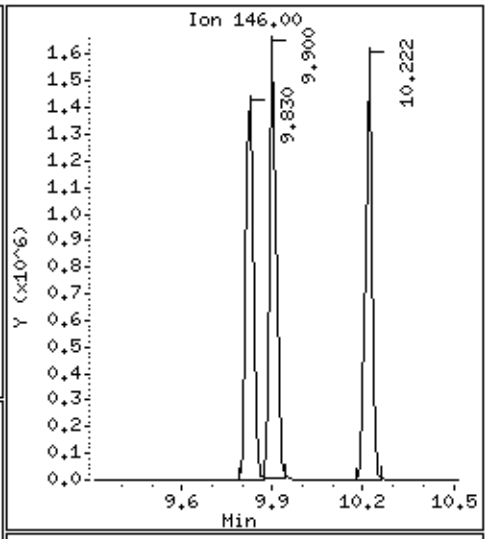
Concentration: 51.742 PPBV

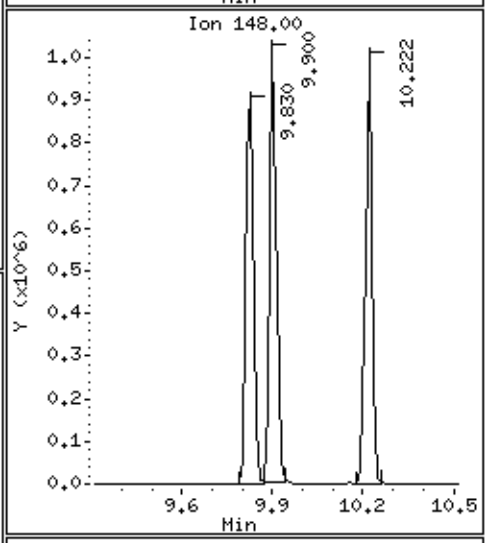


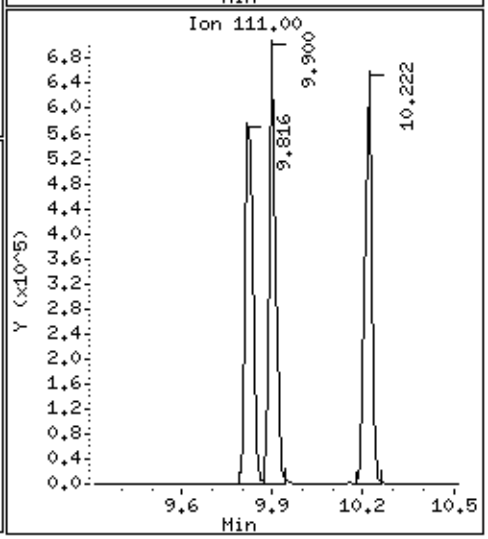












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

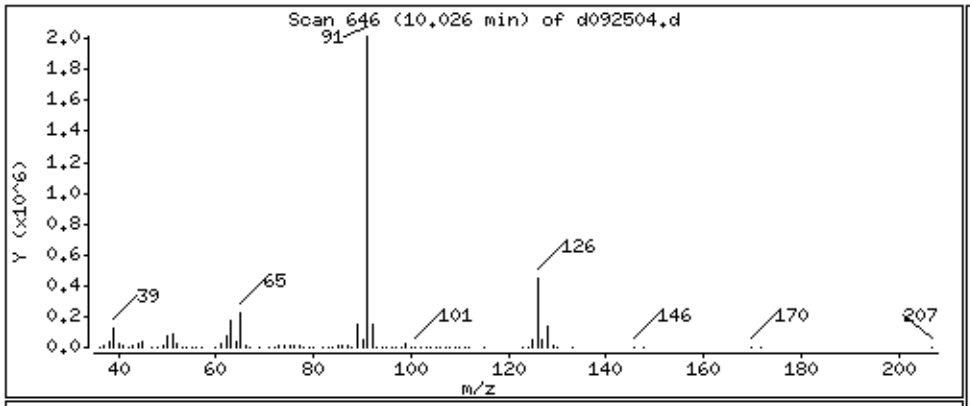
Operator: ccy

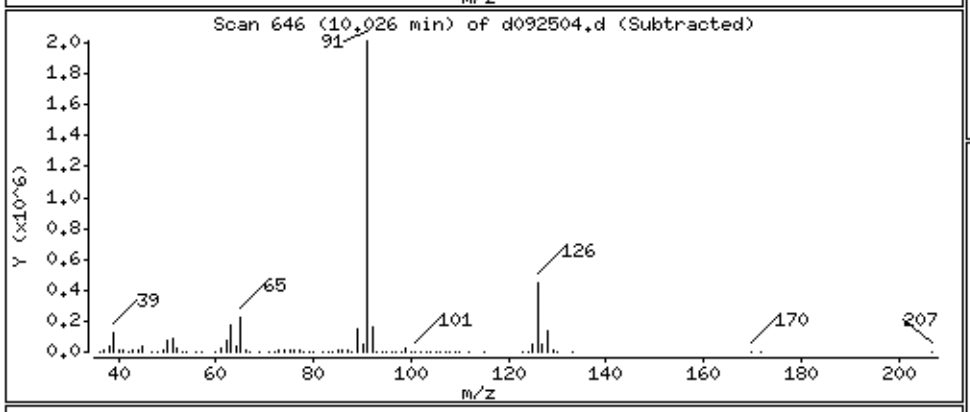
Column phase: RTx-624

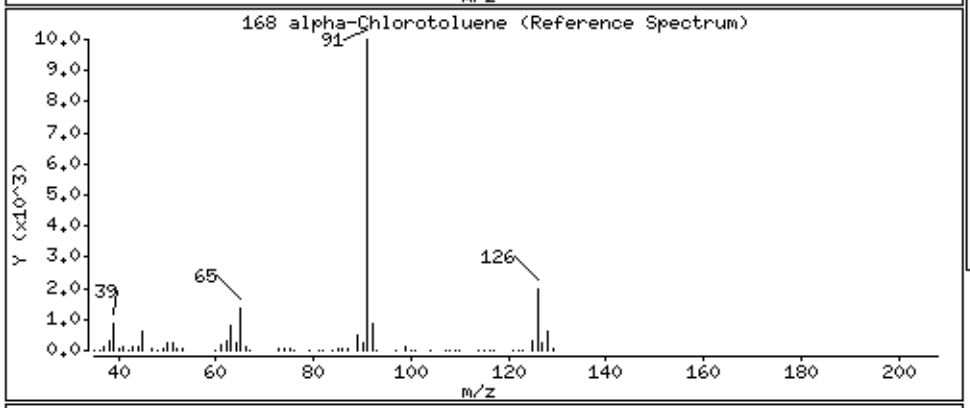
Column diameter: 0.53

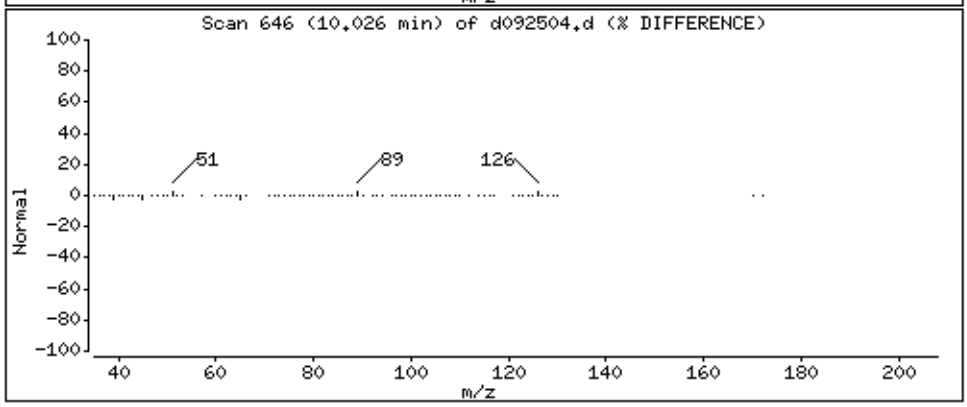
168 alpha-Chlorotoluene

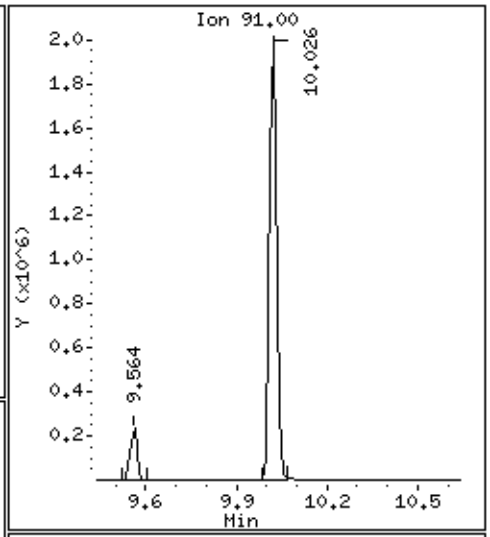
Concentration: 53.383 PPBV

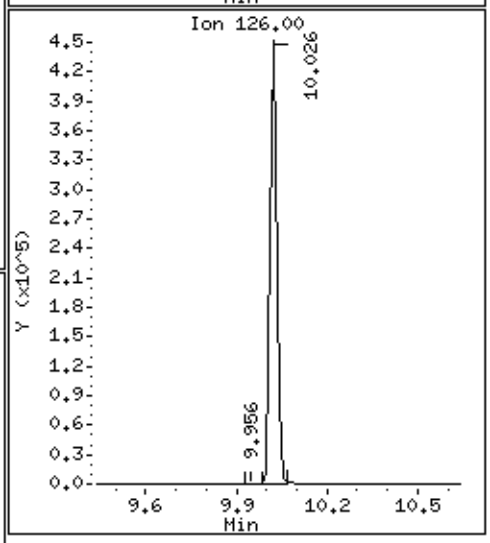












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

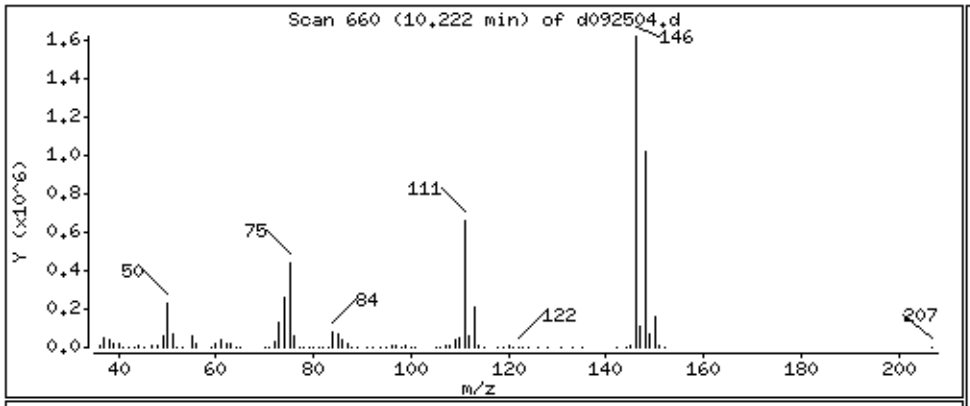
Operator: ccy

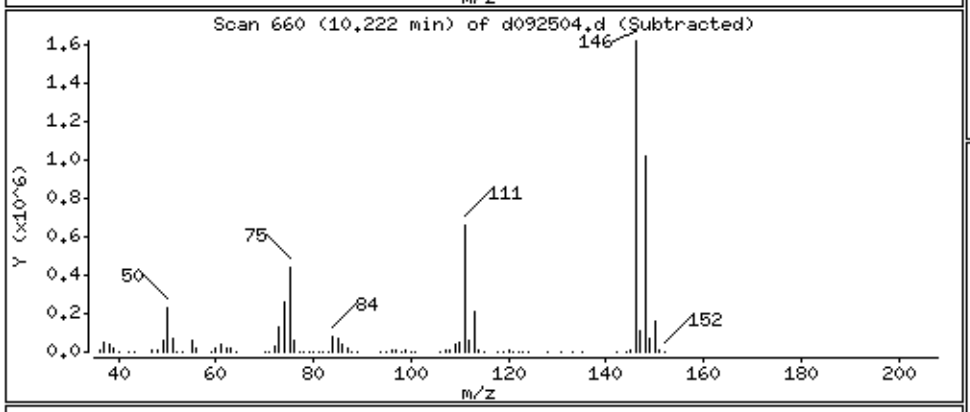
Column phase: RTx-624

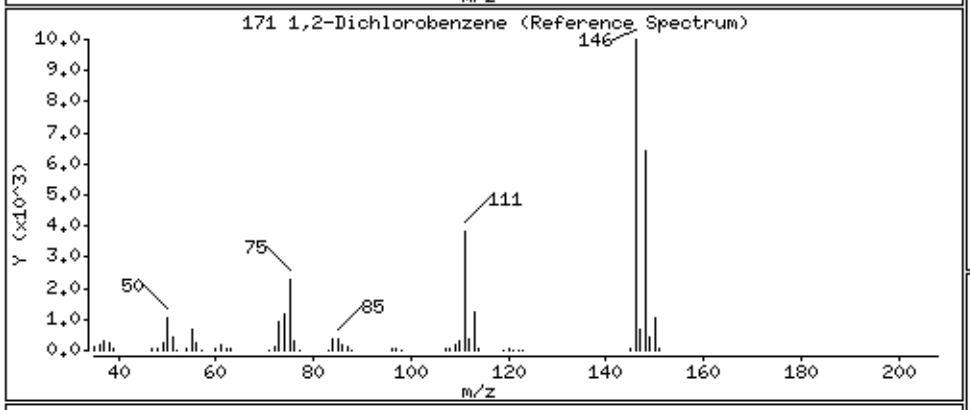
Column diameter: 0.53

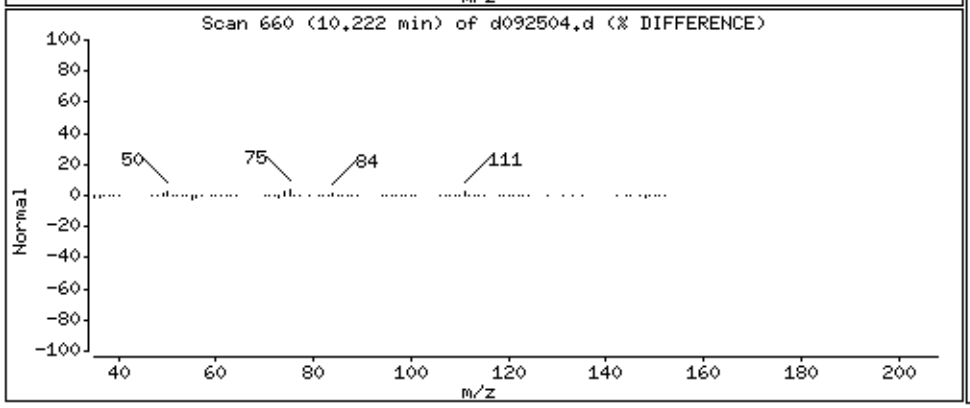
171 1,2-Dichlorobenzene

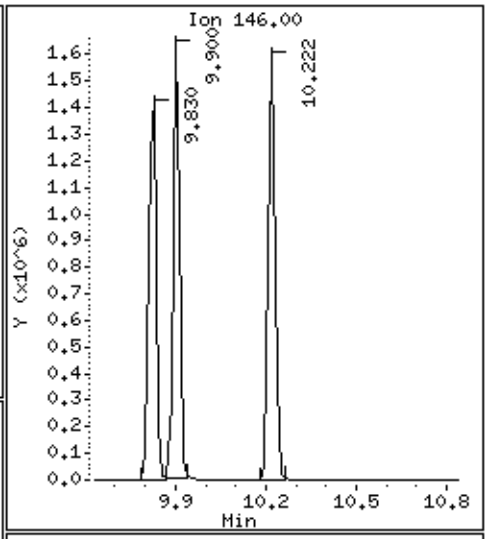
Concentration: 53.383 PPBV

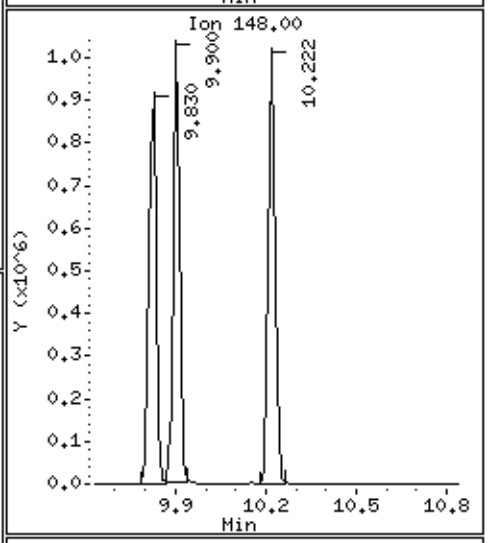


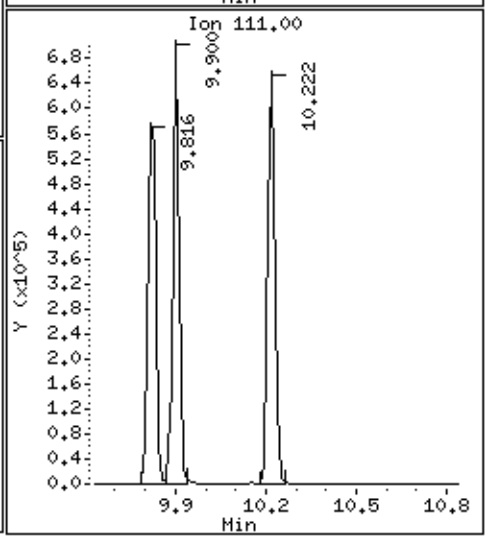












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

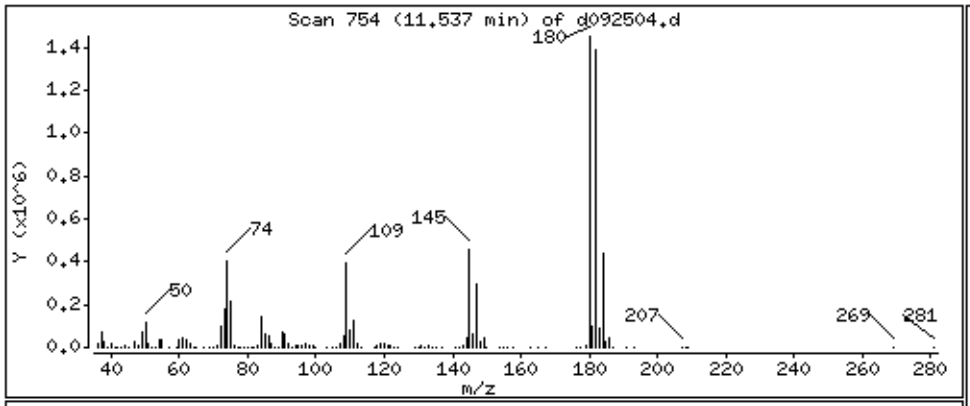
Operator: ccy

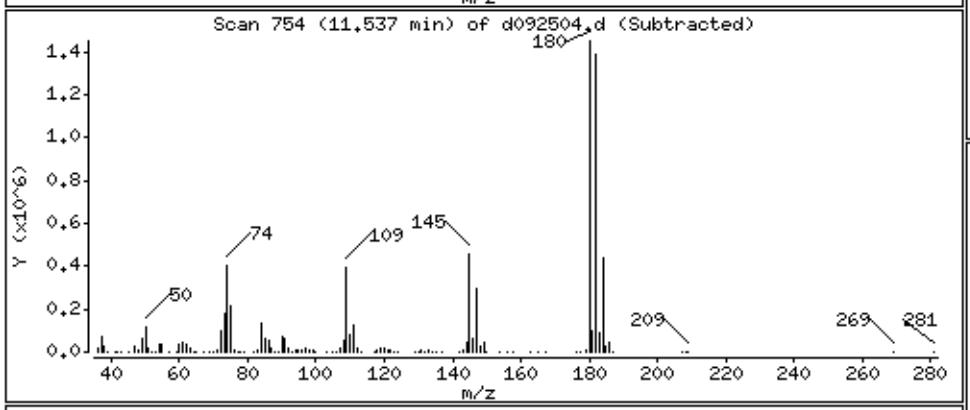
Column phase: RTx-624

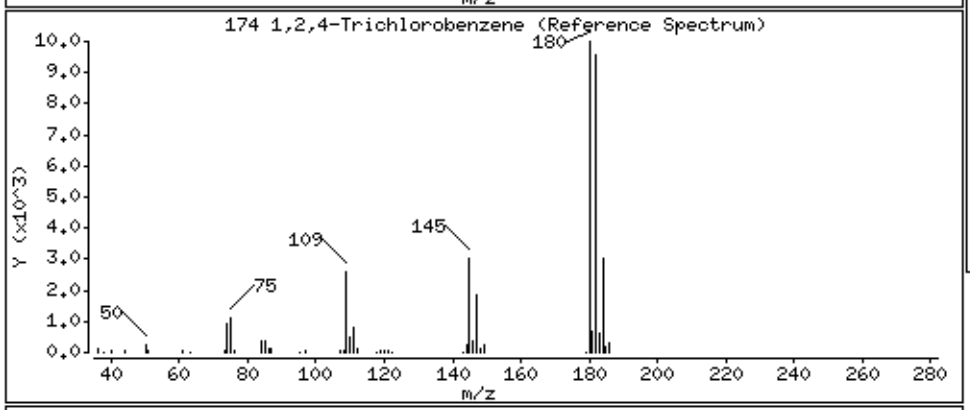
Column diameter: 0.53

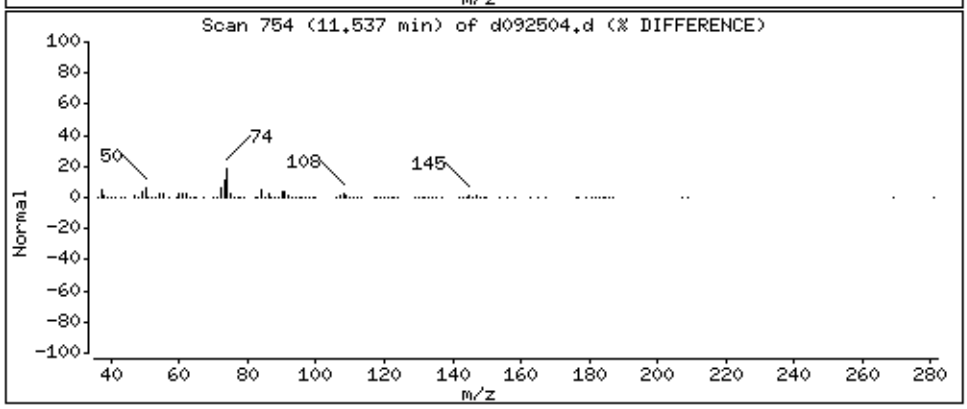
174 1,2,4-Trichlorobenzene

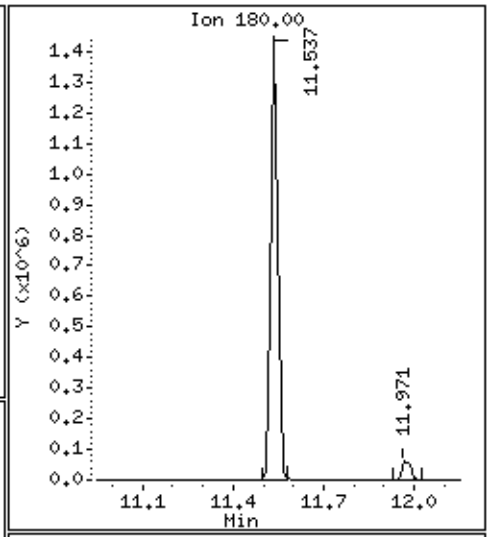
Concentration: 52.527 PPBV

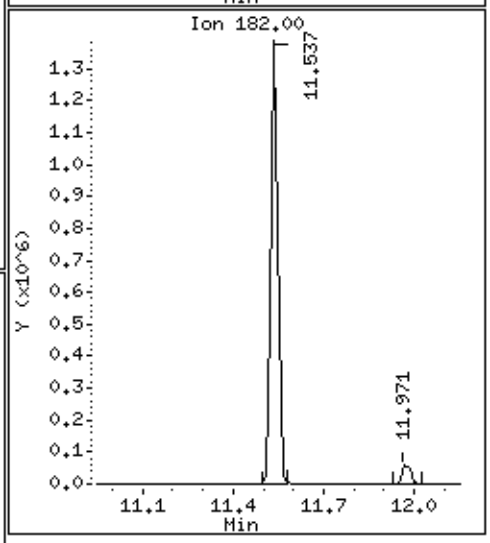












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

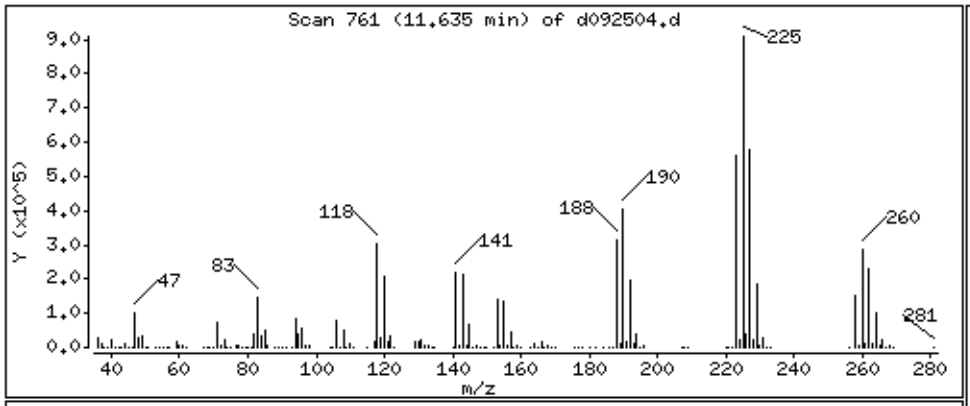
Operator: ccy

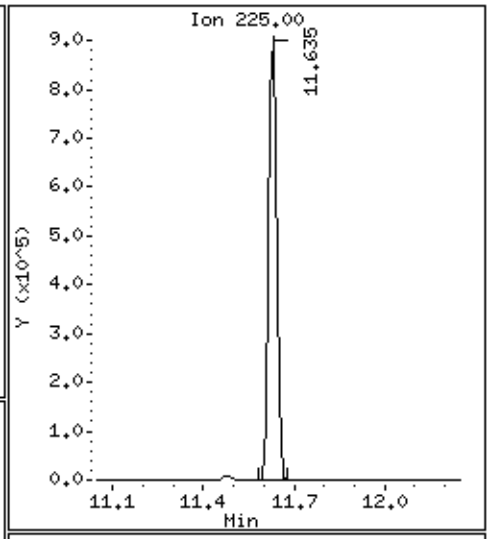
Column phase: RTx-624

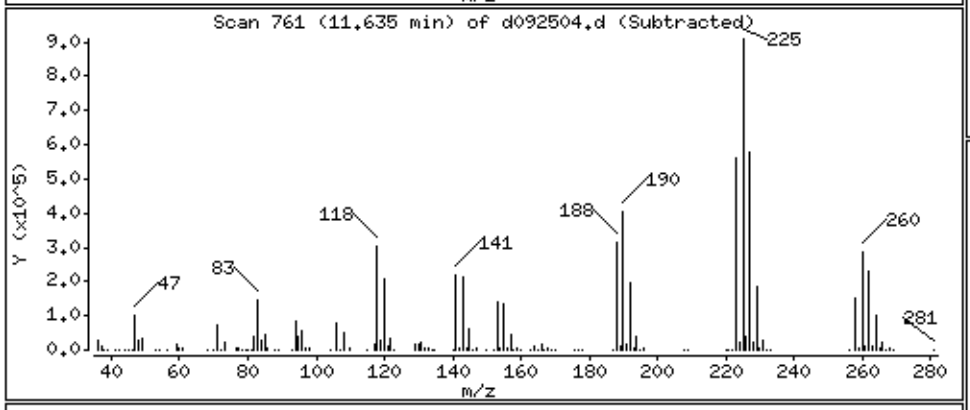
Column diameter: 0.53

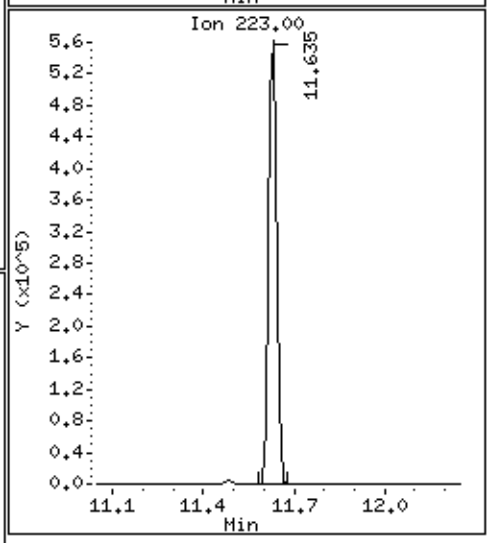
175 Hexachlorobutadiene

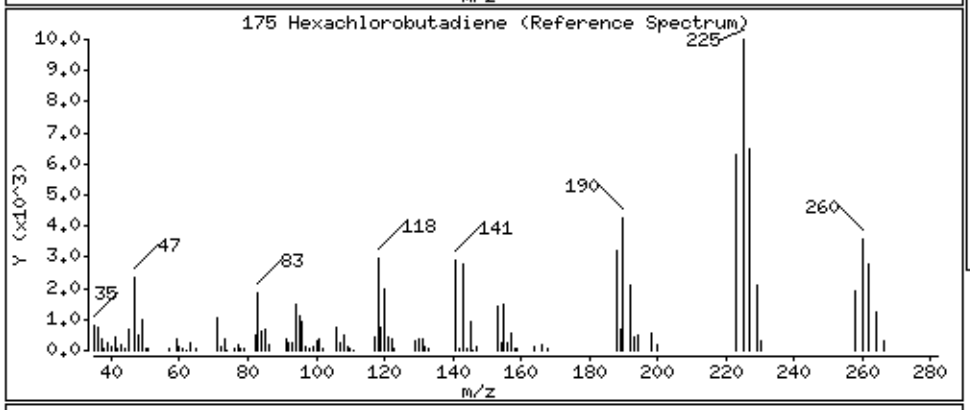
Concentration: 55.348 PPBV

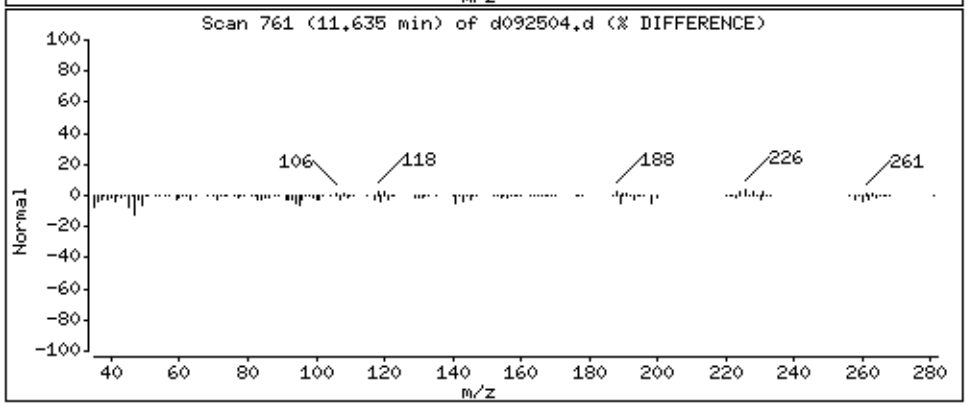












Data File: /chem/msdd.i/25sep10.b/d092504.d

Date : 25-SEP-2010 10:26

Client ID: LCS

Instrument: msdd.i

Sample Info: 50mL #1968-279

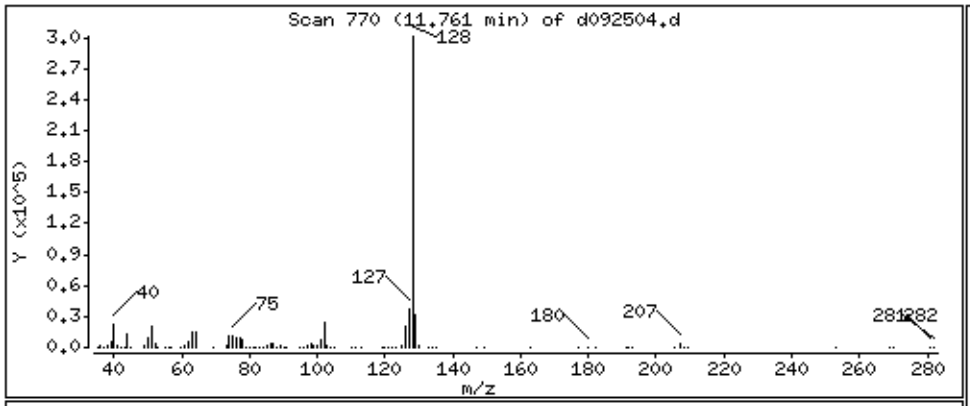
Operator: ccy

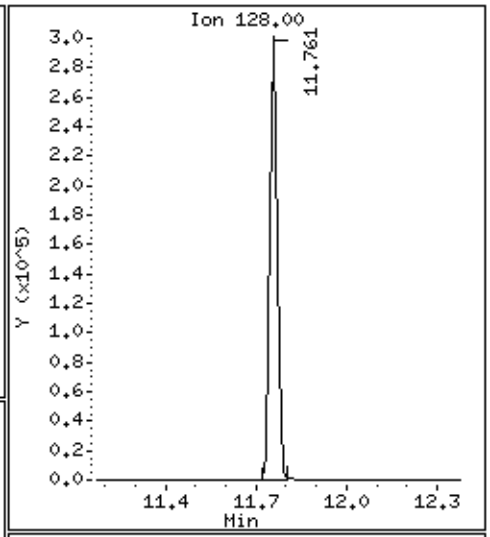
Column phase: RTx-624

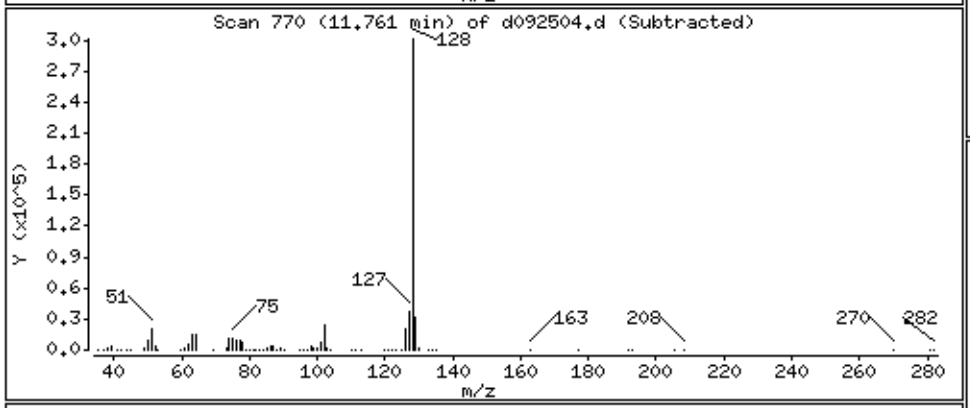
Column diameter: 0.53

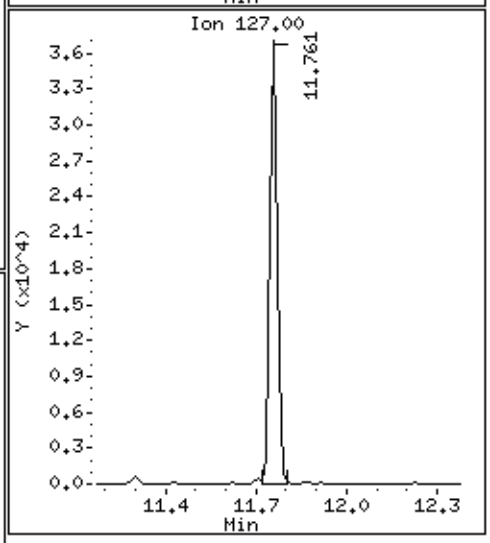
176 Naphthalene

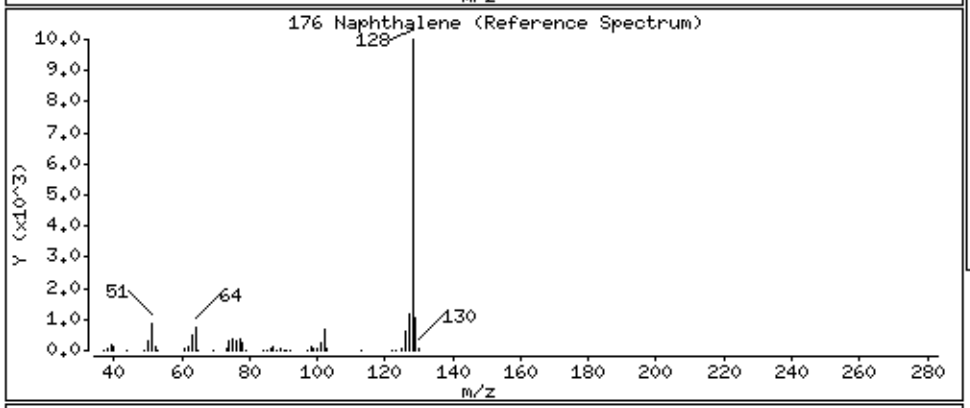
Concentration: 4.784 PPBV

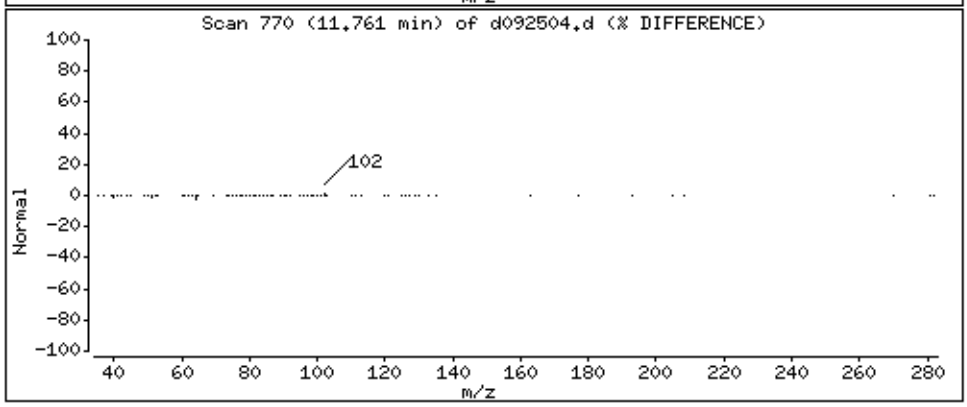












Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1009578A-08AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 10:44 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	101
Chloromethane	106
Vinyl Chloride	117
1,3-Butadiene	108
Bromomethane	101
Chloroethane	100
Freon 11	106
Ethanol	92
Freon 113	92
1,1-Dichloroethene	92
Acetone	90
2-Propanol	96
Carbon Disulfide	101
3-Chloropropene	103
Methylene Chloride	91
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	103
Hexane	97
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	100
Tetrahydrofuran	101
Chloroform	100
1,1,1-Trichloroethane	104
Cyclohexane	100
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	104
Benzene	97
1,2-Dichloroethane	102
Heptane	102
Trichloroethene	104
1,2-Dichloropropane	100
1,4-Dioxane	102
Bromodichloromethane	106
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	106
Toluene	96
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	104
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1009578A-08AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d092505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/10 10:44 AM**	

Compound	**%Recovery**
2-Hexanone	105
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	108
Chlorobenzene	94
Ethyl Benzene	104
m,p-Xylene	102
o-Xylene	104
Styrene	106
Bromoform	110
Cumene	105
1,1,2,2-Tetrachloroethane	105
Propylbenzene	102
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	113

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 27-Sep-2010 15:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 25sep10
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: ccy
Data Type: MS DATA
SampleType: LCSD
SpikeList File: 2926spectra.spk
Quant Type: ISTD
Sublist File: AT10.sub
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Propylene	50.000	48.875	97.75	60-140
7 Dichlorodifluorome	50.000	52.880	105.76	70-130
10 Freon 114	50.000	50.648	101.30	70-130
13 Chloromethane	50.000	52.818	105.64	70-130
15 Vinyl Chloride	50.000	58.504	117.01	70-130
18 1,3-Butadiene	50.000	54.080	108.16	60-140
24 Bromomethane	50.000	50.743	101.49	70-130
25 Chloroethane	50.000	50.111	100.22	70-130
28 Trichlorofluoromet	50.000	53.184	106.37	70-130
29 Ethanol	50.000	46.102	92.20	60-140
33 Freon 113	50.000	46.074	92.15	70-130
34 1,1-Dichloroethene	50.000	46.033	92.07	70-130
38 Acetone	50.000	45.107	90.21	60-140
40 Carbon Disulfide	50.000	50.620	101.24	60-140
41 2-Propanol	50.000	47.828	95.66	60-140
46 Methylene Chloride	50.000	45.449	90.90	70-130
50 MTBE	50.000	49.423	98.85	60-140
52 trans-1,2-Dichloro	50.000	51.593	103.19	60-140
58 Hexane	50.000	48.462	96.92	60-140
65 Vinyl Acetate	50.000	48.092	96.18	60-140
64 1,1-Dichloroethane	50.000	48.419	96.84	70-130
74 cis-1,2-Dichloroet	50.000	50.177	100.35	70-130
75 2-Butanone	50.000	48.831	97.66	60-140
78 Tetrahydrofuran	50.000	50.369	100.74	60-140
80 Chloroform	50.000	50.178	100.36	70-130
83 Cyclohexane	50.000	49.870	99.74	60-140
85 1,1,1-Trichloroeth	50.000	51.939	103.88	70-130
86 Carbon Tetrachlori	50.000	55.843	111.69	70-130
90 Benzene	50.000	48.380	96.76	70-130
94 1,2-Dichloroethane	50.000	50.800	101.60	70-130
95 Heptane	50.000	51.176	102.35	60-140
104 Trichloroethene	50.000	52.086	104.17	70-130
106 1,2-Dichloropropan	50.000	49.988	99.98	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 1,4-Dioxane	50.000	50.774	101.55	60-140
108 Bromodichlorometha	50.000	52.949	105.90	60-140
110 cis-1,3-Dichloropr	50.000	52.149	104.30	70-130
112 4-Methyl-2-pentano	50.000	53.262	106.52	60-140
115 Toluene	50.000	47.988	95.98	70-130
118 trans-1,3-Dichloro	50.000	52.331	104.66	70-130
120 1,1,2-Trichloroeth	50.000	51.917	103.83	70-130
122 Tetrachloroethene	50.000	51.100	102.20	70-130
125 2-Hexanone	50.000	52.410	104.82	60-140
128 Dibromochlorometha	50.000	53.816	107.63	60-140
130 1,2-Dibromoethane	50.000	54.244	108.49	70-130
135 Chlorobenzene	50.000	47.048	94.10	70-130
137 Ethyl Benzene	50.000	52.219	104.44	70-130
140 m,p-Xylene	50.000	51.269	102.54	70-130
141 o-Xylene	50.000	51.785	103.57	70-130
142 Styrene	50.000	52.847	105.69	70-130
145 Bromoform	50.000	54.762	109.52	60-140
151 1,1,2,2-Tetrachlor	50.000	52.603	105.21	70-130
155 4-Ethyltoluene	50.000	51.211	102.42	60-140
156 1,3,5-Trimethylben	50.000	51.618	103.24	70-130
162 1,2,4-Trimethylben	50.000	52.718	105.44	70-130
165 1,3-Dichlorobenzen	50.000	52.140	104.28	70-130
166 1,4-Dichlorobenzen	50.000	53.922	107.84	70-130
168 alpha-Chlorotoluen	50.000	51.714	103.43	70-130
171 1,2-Dichlorobenzen	50.000	53.360	106.72	70-130
174 1,2,4-Trichloroben	50.000	53.988	107.98	70-130
175 Hexachlorobutadien	50.000	56.393	112.79	70-130
153 Propylbenzene	50.000	51.279	102.56	60-140
147 Cumene	50.000	52.528	105.06	60-140
44 3-Chloropropene	50.000	51.402	102.80	60-140
89 2,2,4-Trimethylpen	50.000	51.959	103.92	60-140
26 Isopentane	50.000	54.712	109.42	70-130
14 Butane	50.000	56.189	112.38	70-130
105 Methyl Cyclohexane	50.000	50.428	100.86	70-130
48 tert-Butyl-Alcohol	5.000	4.863	97.26	60-140
176 Naphthalene	5.000	4.814	96.28	60-140
63 Isopropyl ether	5.000	4.998	99.95	60-140
72 t-Butylethyl Ether	5.000	5.308	106.16	60-140
93 tert-amyl-Methyl E	5.000	5.214	104.28	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 91 1,2-Dichloroethane	25.000	25.456	101.83	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 114 Toluene-d8	25.000	24.881	99.53	70-130
$ 149 Bromofluorobenzene	25.000	25.132	100.53	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdd.i/25sep10.b/d092505.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 25-SEP-2010 10:44
Operator : ccy Inst ID: msdd.i
Smp Info : 50mL #1968-279
Misc Info : 50ppbv(200ppbv)
Comment :
Method : /chem/msdd.i/25sep10.b/d10q0924a.m
Meth Date : 27-Sep-2010 15:14 mwillett Quant Type: ISTD
Cal Date : 24-SEP-2010 12:20 Cal File: d092408.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 79 Bromochloromethane					CAS #: 74-97-5		
4.583	4.583 (1.000)	130	208018	25.0000		80.00- 120.00	100.00
4.583	4.583 (1.000)	128	158717			27.74- 127.74	76.30
4.583	4.583 (1.000)	49	289056			89.66- 189.66	138.96
* 100 1,4-Difluorobenzene					CAS #: 540-36-3		
5.506	5.506 (1.000)	114	870486	25.0000		80.00- 120.00	100.00
5.506	5.506 (1.000)	88	143976			0.00- 66.37	16.54
* 134 Chlorobenzene-d5					CAS #: 3114-55-4		
7.955	7.955 (1.000)	117	1000193	25.0000		80.00- 120.00	100.00
7.955	7.955 (1.000)	82	598418			8.79- 108.79	59.83
$ 91 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.142	5.128 (1.122)	65	352547	25.4565	25.456	80.00- 120.00	100.00
5.142	5.128 (1.122)	67	195170			2.94- 102.94	55.36
$ 114 Toluene-d8					CAS #: 2037-26-5		
6.737	6.737 (1.224)	98	1008060	24.8813	24.881	80.00- 120.00	100.00
6.737	6.737 (1.224)	70	115119			0.00- 61.29	11.42

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

$ 114 Toluene-d8 (continued)
  6.737   6.737 (1.224)   100    675297                    16.69- 116.69    66.99
-------------------------------------------------------------------------------
$ 149 Bromofluorobenzene                            CAS #: 460-00-4
  8.948   8.948 (1.125)   174    647108 25.1317   25.132  80.00- 120.00   100.00
  8.934   8.934 (1.123)    95    893447                    87.50- 187.50   138.07
  8.948   8.948 (1.125)   176    637597                    46.73- 146.73    98.53
-------------------------------------------------------------------------------
    6 Propylene                                     CAS #: 115-07-1
  1.183   1.169 (0.258)    41    253590 48.8751   48.875  80.00- 120.00   100.00
  1.183   1.169 (0.258)    42    172938                    19.00- 119.00    68.20
  1.183   1.183 (0.258)    39    200538                    30.01- 130.01    79.08
-------------------------------------------------------------------------------
    7 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  1.197   1.197 (0.261)    85   1163156 52.8797   52.880  80.00- 120.00   100.00
  1.197   1.197 (0.261)    87    377287                     0.00-  82.63    32.44
-------------------------------------------------------------------------------
   10 Freon 114                                     CAS #: 76-14-2
  1.295   1.295 (0.282)   135    766670 50.6484   50.648  80.00- 120.00   100.00
  1.295   1.295 (0.282)   137    241879                     0.00-  81.88    31.55
-------------------------------------------------------------------------------
   13 Chloromethane                                 CAS #: 74-87-3
  1.337   1.337 (0.292)    50    242883 52.8180   52.818  80.00- 120.00   100.00
  1.337   1.337 (0.292)    52     76173                     0.00-  81.18    31.36
-------------------------------------------------------------------------------
   14 Butane                                        CAS #: 106-97-8
  1.407   1.407 (0.307)    58     74213 56.1890   56.189  80.00- 120.00   100.00
  1.407   1.407 (0.307)    43    525738                   624.15- 724.15   708.42
-------------------------------------------------------------------------------
   15 Vinyl Chloride                                CAS #: 75-01-4
  1.435   1.435 (0.313)    62    384644 58.5040   58.504  80.00- 120.00   100.00
  1.435   1.421 (0.313)    64    118093                     0.00-  85.43    30.70
-------------------------------------------------------------------------------
   18 1,3-Butadiene                                 CAS #: 106-99-0
  1.448   1.449 (0.316)    54    310006 54.0800   54.080  80.00- 120.00   100.00
  1.448   1.449 (0.316)    39    400778                    71.50- 171.50   129.28
-------------------------------------------------------------------------------
   24 Bromomethane                                  CAS #: 74-83-9
  1.700   1.700 (0.371)    94    357387 50.7433   50.743  80.00- 120.00   100.00
  1.700   1.700 (0.371)    96    333801                    43.18- 143.18    93.40
-------------------------------------------------------------------------------
   25 Chloroethane                                  CAS #: 75-00-3
  1.784   1.784 (0.389)    64    214828 50.1115   50.111  80.00- 120.00   100.00
  1.784   1.784 (0.389)    66     66276                     0.00-  83.84    30.85
  1.784   1.784 (0.389)    49     61952                     0.00-  75.97    28.84
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Isopentane					CAS #: 78-78-4		
1.812	1.812 (0.395)	43	464131	54.7119	54.712	80.00- 120.00	100.00
1.812	1.812 (0.395)	57	338965			23.31- 123.31	73.03
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
1.966	1.966 (0.429)	101	1289663	53.1843	53.184	80.00- 120.00	100.00
1.966	1.966 (0.429)	103	838914			16.00- 116.00	65.05
29 Ethanol					CAS #: 64-17-5		
2.176	2.176 (0.475)	45	136786	46.1024	46.102	80.00- 120.00	100.00
2.176	2.176 (0.475)	43	29291			0.00- 73.09	21.41
2.176	2.176 (0.475)	46	55777			0.00- 90.22	40.78
33 Freon 113					CAS #: 76-13-1		
2.428	2.428 (0.530)	151	625921	46.0745	46.074	80.00- 120.00	100.00
2.428	2.428 (0.530)	153	403231			14.08- 114.08	64.42
2.428	2.428 (0.530)	101	794691			76.51- 176.51	126.96
34 1,1-Dichloroethene					CAS #: 75-35-4		
2.456	2.442 (0.536)	98	233905	46.0326	46.033	80.00- 120.00	100.00
2.456	2.442 (0.536)	96	363555			112.09- 212.09	155.43
2.442	2.442 (0.533)	61	676995			244.07- 344.07	289.43
38 Acetone					CAS #: 67-64-1		
2.554	2.554 (0.557)	58	176719	45.1069	45.107	80.00- 120.00	100.00
2.554	2.554 (0.557)	43	616261			289.34- 389.34	348.72
40 Carbon Disulfide					CAS #: 75-15-0		
2.638	2.638 (0.576)	76	1096766	50.6206	50.620	80.00- 120.00	100.00
41 2-Propanol					CAS #: 67-63-0		
2.694	2.694 (0.588)	45	660516	47.8276	47.828	80.00- 120.00	100.00
2.694	2.694 (0.588)	43	151843			0.00- 73.36	22.99
2.694	2.694 (0.588)	59	24803			0.00- 53.87	3.76
44 3-Chloropropene					CAS #: 107-05-1		
2.848	2.848 (0.621)	76	190279	51.4024	51.402	80.00- 120.00	100.00
2.848	2.848 (0.621)	41	501143			230.86- 330.86	263.37
46 Methylene Chloride					CAS #: 75-09-2		
3.016	3.016 (0.658)	49	452907	45.4494	45.449	80.00- 120.00	100.00
3.016	3.016 (0.658)	84	326331			23.22- 123.22	72.05
3.016	3.016 (0.658)	51	135783			0.00- 83.45	29.98
48 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.155	3.156 (0.689)	59	85031	4.86296	4.863	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
48 tert-Butyl-Alcohol (continued)							
3.155	3.156 (0.689)	41	23136			0.00- 87.45	27.21
3.155	3.156 (0.689)	57	8853			0.00- 77.87	10.41
50 MTBE					CAS #: 1634-04-4		
3.253	3.253 (0.710)	73	1173932	49.4230	49.423	80.00- 120.00	100.00
3.253	3.253 (0.710)	57	263753			0.00- 74.20	22.47
3.253	3.253 (0.710)	41	273656			0.00- 73.88	23.31
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.267	3.268 (0.713)	98	276400	51.5934	51.593	80.00- 120.00	100.00
3.267	3.268 (0.713)	61	687591			199.14- 299.14	248.77
3.267	3.268 (0.713)	96	426249			115.75- 215.75	154.21
58 Hexane					CAS #: 110-54-3		
3.505	3.491 (0.765)	57	711933	48.4620	48.462	80.00- 120.00	100.00
3.505	3.491 (0.765)	43	429800			8.36- 108.36	60.37
3.505	3.491 (0.765)	86	113088			0.00- 64.99	15.88
63 Isopropyl ether					CAS #: 108-20-3		
3.771	3.771 (0.823)	45	182766	4.99750	4.998	80.00- 120.00	100.00
3.771	3.771 (0.823)	87	57297			0.00- 80.45	31.35
3.771	3.771 (0.823)	59	25216			0.00- 62.10	13.80
64 1,1-Dichloroethane					CAS #: 75-34-3		
3.757	3.757 (0.820)	63	860344	48.4192	48.419	80.00- 120.00	100.00
3.757	3.757 (0.820)	65	269124			0.00- 81.76	31.28
65 Vinyl Acetate					CAS #: 108-05-4		
3.813	3.813 (0.832)	86	98099	48.0924	48.092	80.00- 120.00	100.00
3.813	3.813 (0.832)	43	1193055			1105.35-1205.35	1216.17
72 t-Butylethyl Ether					CAS #: 637-92-3		
4.149	4.135 (0.905)	59	171692	5.30794	5.308	80.00- 120.00	100.00
4.149	4.149 (0.905)	87	67948			0.00- 88.67	39.58
4.135	4.135 (0.902)	41	33068			0.00- 69.90	19.26
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.359	4.359 (0.951)	98	309821	50.1766	50.177	80.00- 120.00	100.00
4.359	4.359 (0.951)	96	476753			105.73- 205.73	153.88
4.359	4.359 (0.951)	61	708553			177.29- 277.29	228.70
75 2-Butanone					CAS #: 78-93-3		
4.387	4.387 (0.957)	72	207017	48.8315	48.831	80.00- 120.00	100.00
4.387	4.387 (0.957)	43	984189			398.18- 498.18	475.41
4.387	4.387 (0.957)	57	80055			0.00- 94.52	38.67

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
78 Tetrahydrofuran					CAS #: 109-99-9		
4.597	4.583 (1.003)	42	555067	50.3693	50.369	80.00- 120.00	100.00
4.597	4.597 (1.003)	71	198228			0.00- 86.23	35.71
4.597	4.597 (1.003)	72	213418			0.00- 90.19	38.45
80 Chloroform					CAS #: 67-66-3		
4.667	4.667 (1.018)	83	1093389	50.1783	50.178	80.00- 120.00	100.00
4.667	4.667 (1.018)	85	693294			11.87- 111.87	63.41
83 Cyclohexane					CAS #: 110-82-7		
4.765	4.765 (1.040)	84	659407	49.8704	49.870	80.00- 120.00	100.00
4.765	4.765 (1.040)	56	825564			73.57- 173.57	125.20
4.765	4.765 (1.040)	41	445254			18.19- 118.19	67.52
85 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.779	4.779 (1.043)	97	1186398	51.9390	51.939	80.00- 120.00	100.00
4.779	4.779 (1.043)	99	759021			14.20- 114.20	63.98
86 Carbon Tetrachloride					CAS #: 56-23-5		
4.904	4.905 (1.070)	119	1106454	55.8432	55.843	80.00- 120.00	100.00
4.904	4.905 (1.070)	117	1135786			52.41- 152.41	102.65
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.128	5.128 (1.119)	57	2700581	51.9587	51.959	80.00- 120.00	100.00
5.128	5.128 (1.119)	56	865508			0.00- 82.22	32.05
5.128	5.128 (1.119)	41	701120			0.00- 75.30	25.96
90 Benzene					CAS #: 71-43-2		
5.114	5.114 (0.929)	78	1446690	48.3797	48.380	80.00- 120.00	100.00
5.114	5.114 (0.929)	77	342238			0.00- 73.42	23.66
93 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.212	5.212 (1.137)	73	156795	5.21379	5.214	80.00- 120.00	100.00
5.212	5.212 (1.137)	87	40470			0.00- 75.15	25.81
5.212	5.212 (1.137)	55	63211			0.00- 87.94	40.31
94 1,2-Dichloroethane					CAS #: 107-06-2		
5.212	5.198 (0.947)	62	842005	50.8002	50.800	80.00- 120.00	100.00
5.212	5.198 (0.947)	64	276751			0.00- 83.91	32.87
95 Heptane					CAS #: 142-82-5		
5.296	5.296 (0.962)	71	549454	51.1762	51.176	80.00- 120.00	100.00
5.296	5.296 (0.962)	43	1051316			140.26- 240.26	191.34
5.296	5.296 (0.962)	57	582515			59.88- 159.88	106.02
104 Trichloroethene					CAS #: 79-01-6		
5.702	5.702 (1.036)	95	762267	52.0865	52.086	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
104 Trichloroethene (continued)							
5.702	5.702 (1.036)	130	740909			49.11- 149.11	97.20
5.702	5.702 (1.036)	97	485994			15.29- 115.29	63.76
105 Methyl Cyclohexane					CAS #: 108-87-2		
5.800	5.800 (1.266)	83	997145	50.4280	50.428	80.00- 120.00	100.00
5.800	5.800 (1.266)	98	494256			0.00- 98.14	49.57
5.800	5.800 (1.266)	55	905128			38.79- 138.79	90.77
106 1,2-Dichloropropane					CAS #: 78-87-5		
5.926	5.926 (1.076)	63	633504	49.9877	49.988	80.00- 120.00	100.00
5.926	5.926 (1.076)	62	446658			20.55- 120.55	70.51
5.926	5.926 (1.076)	41	386557			11.27- 111.27	61.02
107 1,4-Dioxane					CAS #: 123-91-1		
6.038	6.038 (1.097)	88	382801	50.7736	50.774	80.00- 120.00	100.00
6.038	6.038 (1.097)	58	303863			26.67- 126.67	79.38
6.038	6.038 (1.097)	57	98204			0.00- 76.79	25.65
108 Bromodichloromethane					CAS #: 75-27-4		
6.164	6.164 (1.119)	83	1348104	52.9488	52.949	80.00- 120.00	100.00
6.164	6.164 (1.119)	85	851066			12.41- 112.41	63.13
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.556	6.556 (1.191)	75	1002739	52.1495	52.149	80.00- 120.00	100.00
6.556	6.556 (1.191)	77	319780			0.00- 82.98	31.89
6.556	6.556 (1.191)	39	515887			1.60- 101.60	51.45
112 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.681	6.681 (1.213)	58	597108	53.2618	53.262	80.00- 120.00	100.00
6.681	6.681 (1.213)	43	1523703			205.82- 305.82	255.18
6.681	6.681 (1.213)	85	237610			0.00- 91.74	39.79
115 Toluene					CAS #: 108-88-3		
6.793	6.793 (1.234)	91	2053824	47.9876	47.988	80.00- 120.00	100.00
6.793	6.793 (1.234)	92	1241154			10.33- 110.33	60.43
118 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.045	7.045 (0.886)	75	1122650	52.3314	52.331	80.00- 120.00	100.00
7.045	7.045 (0.886)	77	352816			0.00- 84.69	31.43
7.045	7.045 (0.886)	39	524138			0.00- 96.57	46.69
120 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.185	7.185 (0.903)	97	801961	51.9166	51.917	80.00- 120.00	100.00
7.185	7.185 (0.903)	99	491684			11.31- 111.31	61.31
7.185	7.185 (0.903)	83	688213			37.82- 137.82	85.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
122 Tetrachloroethene					CAS #: 127-18-4		
7.227	7.227 (0.909)	166	1068583	51.0995	51.100	80.00- 120.00	100.00
7.227	7.227 (0.909)	129	818405			24.82- 124.82	76.59
7.227	7.227 (0.909)	131	787473			24.46- 124.46	73.69
125 2-Hexanone					CAS #: 591-78-6		
7.381	7.381 (0.928)	58	900033	52.4100	52.410	80.00- 120.00	100.00
7.381	7.381 (0.928)	43	1687355			131.13- 231.13	187.48
7.381	7.381 (0.928)	100	176459			0.00- 69.98	19.61
128 Dibromochloromethane					CAS #: 124-48-1		
7.493	7.493 (0.942)	129	1470131	53.8164	53.816	80.00- 120.00	100.00
7.493	7.493 (0.942)	127	1137167			26.70- 126.70	77.35
130 1,2-Dibromoethane					CAS #: 106-93-4		
7.605	7.591 (0.956)	107	1352635	54.2442	54.244	80.00- 120.00	100.00
7.605	7.591 (0.956)	109	1289909			45.76- 145.76	95.36
135 Chlorobenzene					CAS #: 108-90-7		
7.983	7.983 (1.004)	112	2029479	47.0481	47.048	80.00- 120.00	100.00
7.983	7.983 (1.004)	114	651021			0.00- 82.34	32.08
7.983	7.983 (1.004)	77	1194923			17.83- 117.83	58.88
137 Ethyl Benzene					CAS #: 100-41-4		
8.053	8.039 (1.012)	106	1037732	52.2195	52.219	80.00- 120.00	100.00
8.039	8.039 (1.011)	91	3314985			271.23- 371.23	319.45
140 m,p-Xylene					CAS #: 108-38-3		
8.151	8.151 (1.025)	106	1326537	51.2688	51.269	80.00- 120.00	100.00
8.151	8.151 (1.025)	91	2695438			145.19- 245.19	203.19
141 o-Xylene					CAS #: 95-47-6		
8.472	8.472 (1.065)	106	1276685	51.7847	51.785	80.00- 120.00	100.00
8.472	8.472 (1.065)	91	2730142			163.74- 263.74	213.85
142 Styrene					CAS #: 100-42-5		
8.500	8.500 (1.069)	104	2083149	52.8468	52.847	80.00- 120.00	100.00
8.500	8.500 (1.069)	78	1110226			3.22- 103.22	53.30
145 Bromoform					CAS #: 75-25-2		
8.682	8.682 (1.091)	173	1449306	54.7619	54.762	80.00- 120.00	100.00
8.682	8.682 (1.091)	171	741689			1.08- 101.08	51.18
147 Cumene					CAS #: 98-82-8		
8.766	8.766 (1.102)	105	3889922	52.5279	52.528	80.00- 120.00	100.00
8.766	8.766 (1.102)	120	1017990			0.00- 76.35	26.17

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

  147 Cumene (continued)
  8.766   8.766 (1.102)    51    393644                     0.00-  60.48    10.12
-------------------------------------------------------------------------------
  151 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.074   9.074 (1.141)    83   2073707 52.6035   52.603  80.00- 120.00   100.00
  9.074   9.074 (1.141)    85   1302467                   11.85- 111.85    62.81
-------------------------------------------------------------------------------
  153 Propylbenzene                                CAS #: 103-65-1
  9.102   9.102 (1.144)    91   4754272 51.2790   51.279  80.00- 120.00   100.00
  9.116   9.116 (1.146)   120   1101167                    0.00-  73.32    23.16
  9.116   9.116 (1.146)   105    174640                    0.00-  54.41     3.67
-------------------------------------------------------------------------------
  155 4-Ethyltoluene                               CAS #: 622-96-8
  9.200   9.200 (1.157)   120   1222586 51.2107   51.211  80.00- 120.00   100.00
  9.200   9.200 (1.157)   105   4211160                  285.66- 385.66   344.45
-------------------------------------------------------------------------------
  156 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
  9.256   9.256 (1.164)   120   1737921 51.6181   51.618  80.00- 120.00   100.00
  9.256   9.256 (1.164)   105   3654461                  161.17- 261.17   210.28
-------------------------------------------------------------------------------
  162 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
  9.578   9.578 (1.204)   120   1600330 52.7177   52.718  80.00- 120.00   100.00
  9.578   9.578 (1.204)   105   3520504                  168.63- 268.63   219.99
-------------------------------------------------------------------------------
  165 1,3-Dichlorobenzene                          CAS #: 541-73-1
  9.844   9.844 (1.237)   146   2375244 52.1395   52.140  80.00- 120.00   100.00
  9.844   9.844 (1.237)   148   1508422                   14.02- 114.02    63.51
  9.830   9.830 (1.236)   111   1005069                    0.00-  92.07    42.31
-------------------------------------------------------------------------------
  166 1,4-Dichlorobenzene                          CAS #: 106-46-7
  9.914   9.914 (1.246)   146   2497003 53.9216   53.922  80.00- 120.00   100.00
  9.914   9.914 (1.246)   148   1580978                   13.17- 113.17    63.32
  9.914   9.914 (1.246)   111   1012086                    0.00-  90.44    40.53
-------------------------------------------------------------------------------
  168 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.039  10.040 (1.262)    91   3012874 51.7144   51.714  80.00- 120.00   100.00
 10.039  10.040 (1.262)   126    613222                    0.00-  70.60    20.35
-------------------------------------------------------------------------------
  171 1,2-Dichlorobenzene                          CAS #: 95-50-1
 10.235  10.235 (1.287)   146   2314454 53.3597   53.360  80.00- 120.00   100.00
 10.235  10.235 (1.287)   148   1473954                   12.90- 112.90    63.68
 10.235  10.235 (1.287)   111   1005402                    0.00-  93.42    43.44
-------------------------------------------------------------------------------
  174 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 11.551  11.551 (1.452)   180   2110230 53.9878   53.988  80.00- 120.00   100.00
 11.551  11.551 (1.452)   182   2015181                   45.06- 145.06    95.50
-------------------------------------------------------------------------------
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene						CAS #: 87-68-3		
11.649	11.649	(1.464)	225	1612919	56.3934	56.393	80.00- 120.00	100.00
11.649	11.649	(1.464)	223	1015704			44.84- 144.84	62.97
176 Naphthalene						CAS #: 91-20-3		
11.774	11.775	(1.480)	128	467696	4.81417	4.814	80.00- 120.00	100.00
11.774	11.775	(1.480)	127	56784			0.00- 62.92	12.14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdd.i
Lab File ID: d092505.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: ccy
Method File: /chem/msdd.i/25sep10.b/d10q0924a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 25-SEP-2010
Calibration Time: 09:52
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

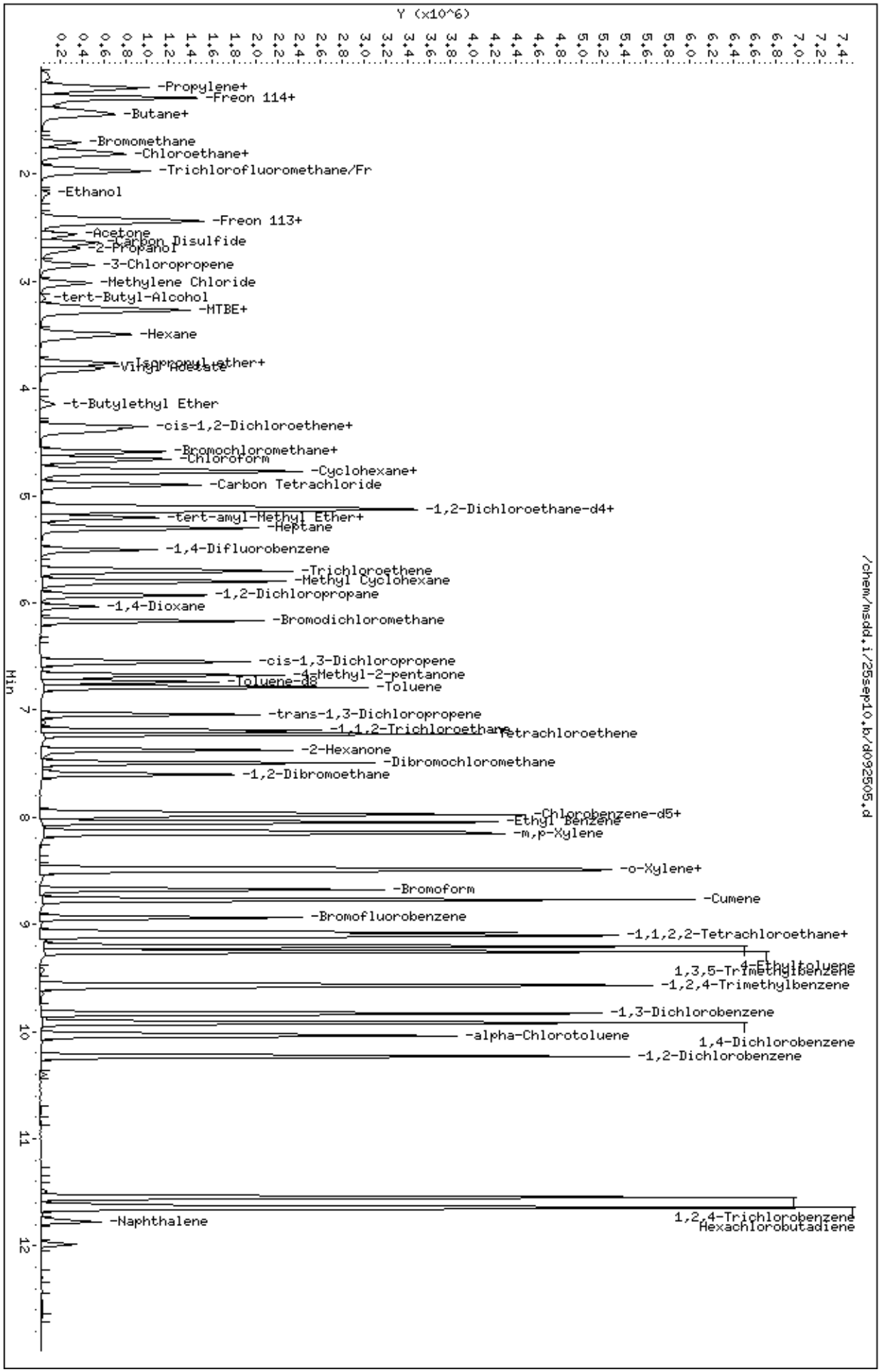
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	211394	126836	295952	208018	-1.60
100 1,4-Difluorobenze	892044	535226	1248862	870486	-2.42
134 Chlorobenzene-d5	1020742	612445	1429039	1000193	-2.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
79 Bromochloromethan	4.58	4.25	4.91	4.58	0.00
100 1,4-Difluorobenze	5.51	5.18	5.84	5.51	0.00
134 Chlorobenzene-d5	7.95	7.62	8.28	7.95	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.

Data File: /chem/msdd.i/25sep10.b/d092505.d
Date : 25-SEP-2010 10:44
Client ID: LCSD
Sample Info: 50mL #1968-279
Column phase: RTx-624

Instrument: msdd.i
Operator: ccy
Column diameter: 0.53



Page 1

Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

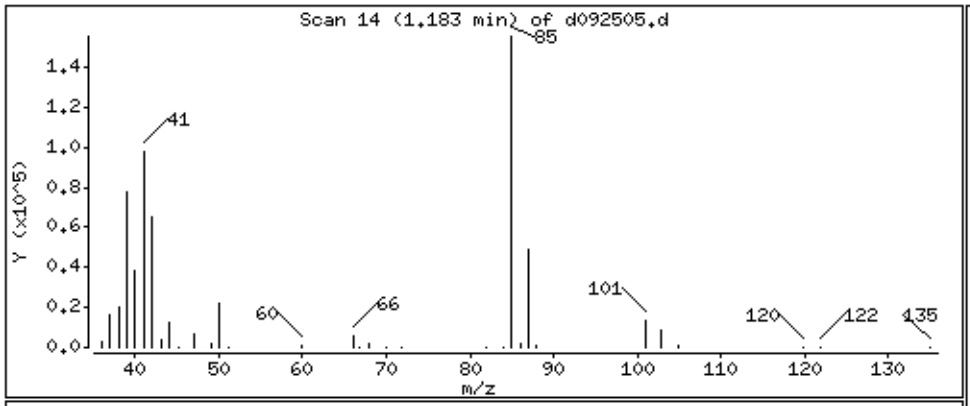
Operator: ccy

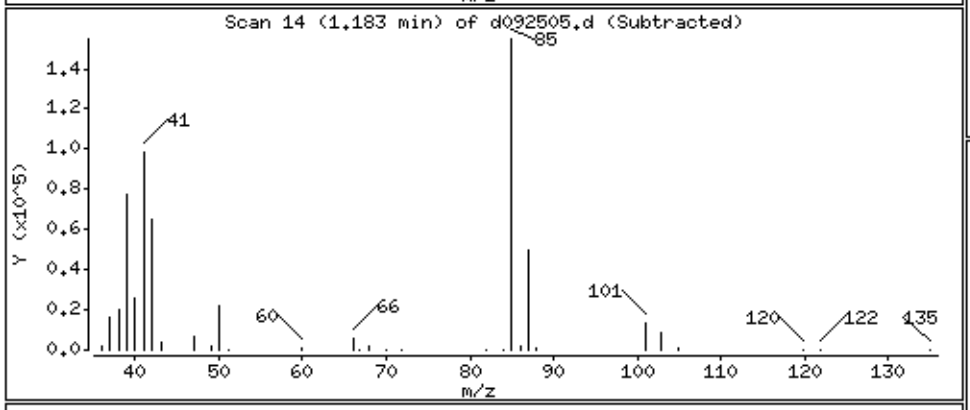
Column phase: RTx-624

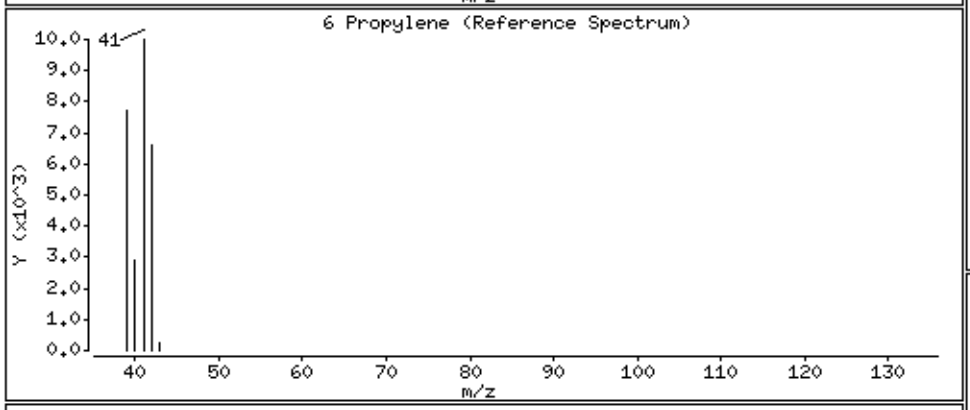
Column diameter: 0.53

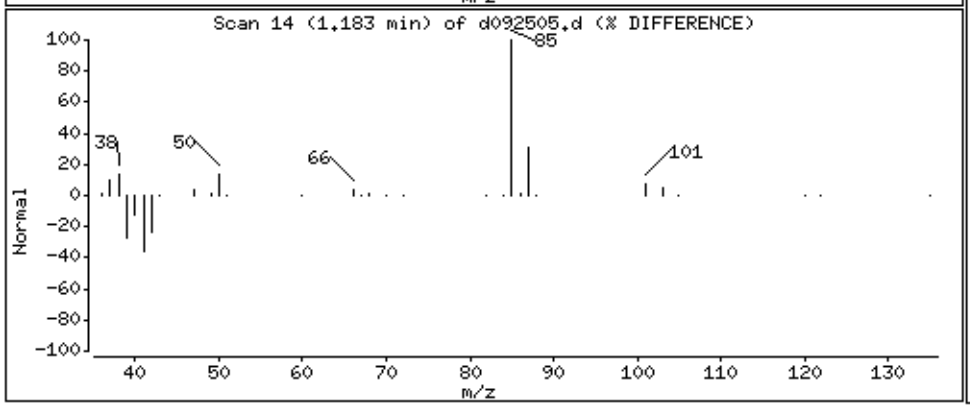
6 Propylene

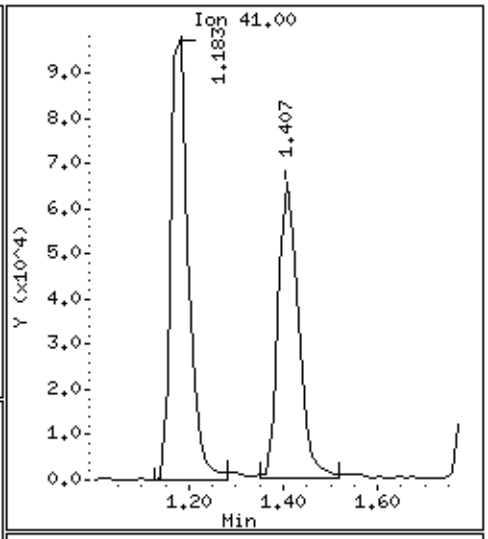
Concentration: 48.875 PPBV

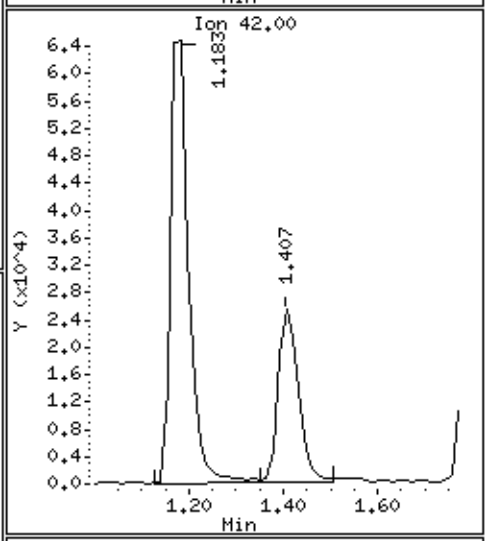


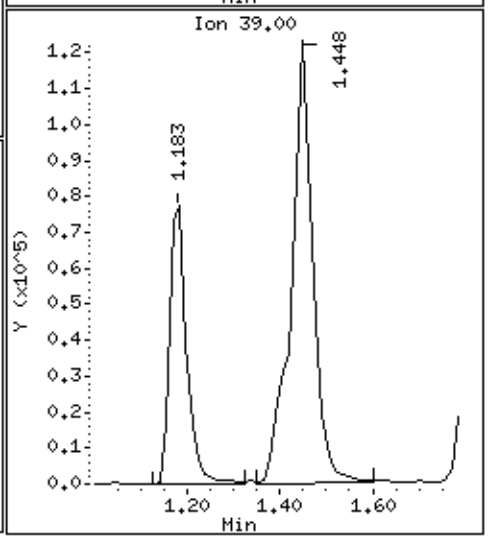












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

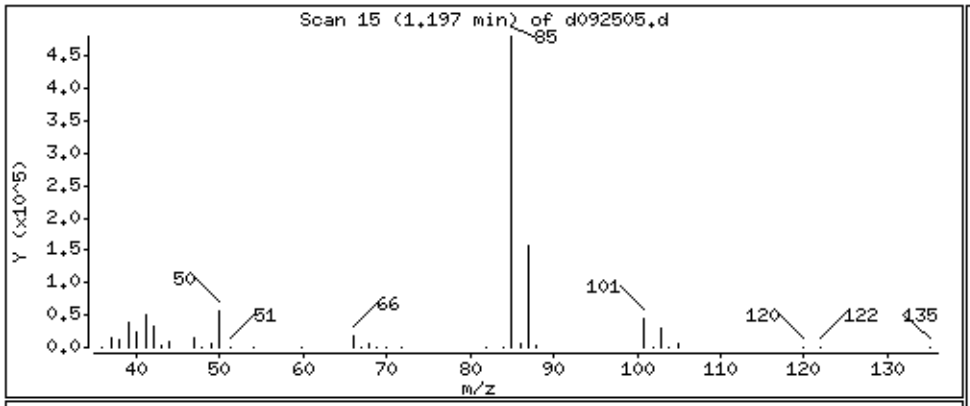
Operator: ccy

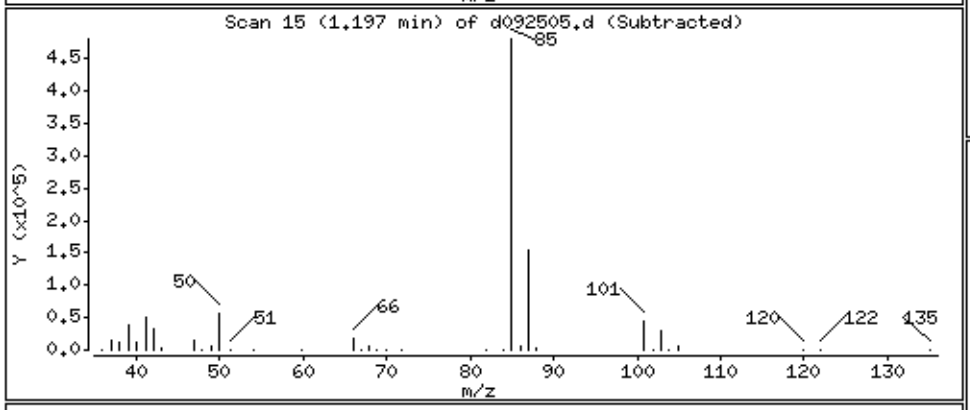
Column phase: RTx-624

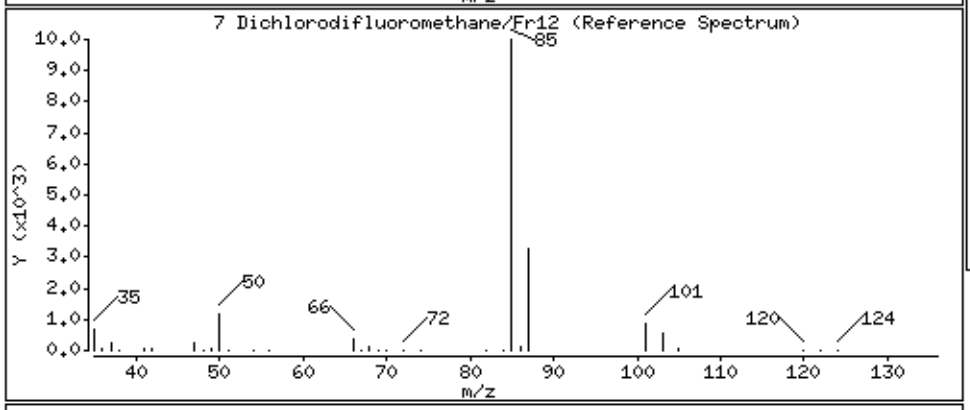
Column diameter: 0.53

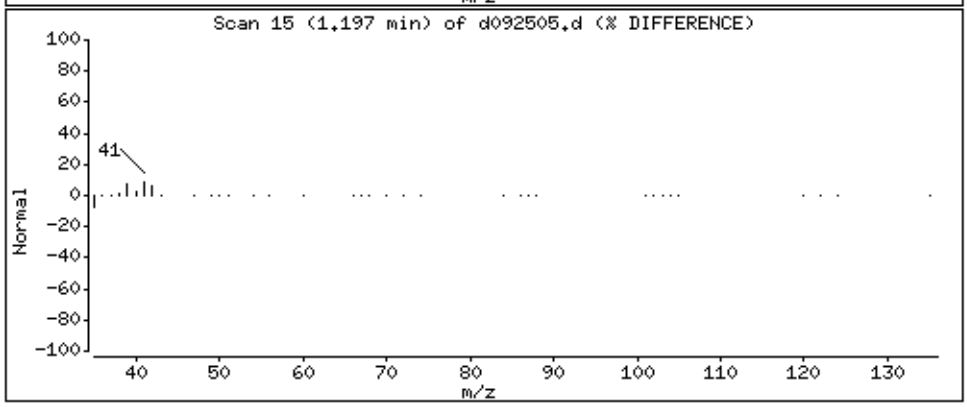
7 Dichlorodifluoromethane/Fr12

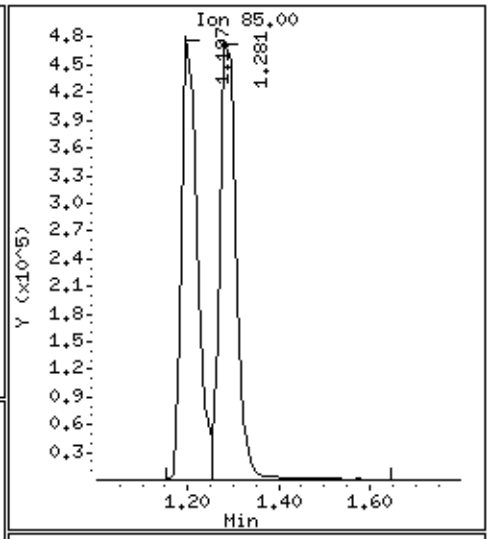
Concentration: 52.880 PPBV

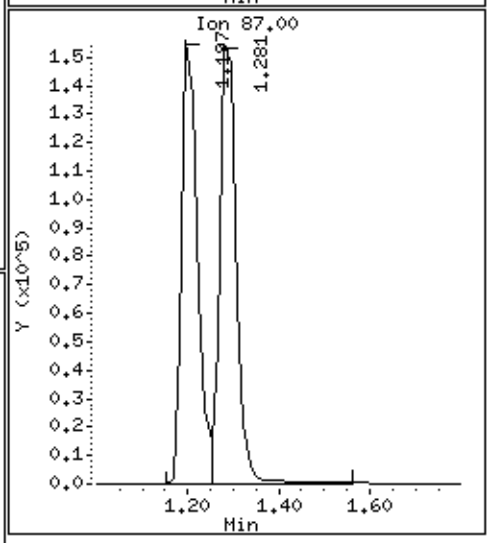












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

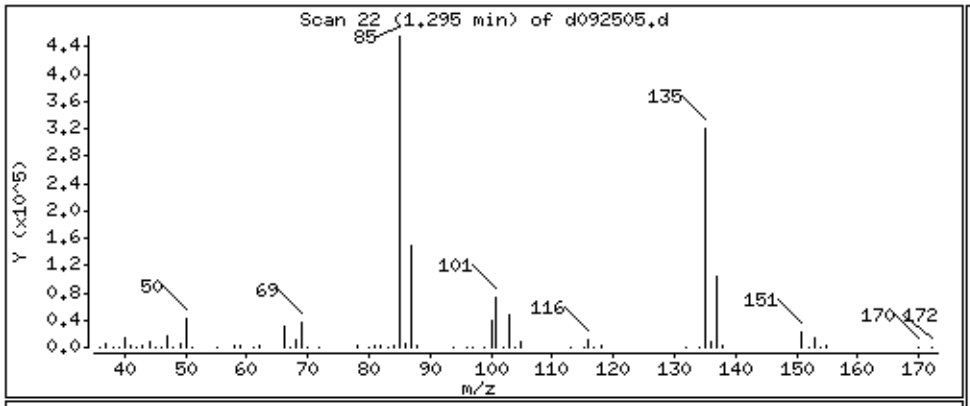
Operator: ccy

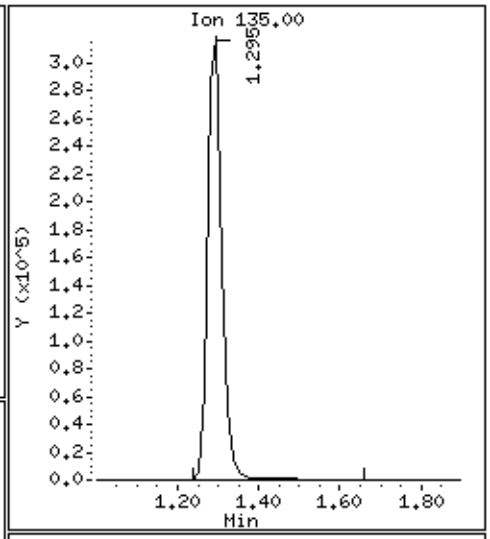
Column phase: RTx-624

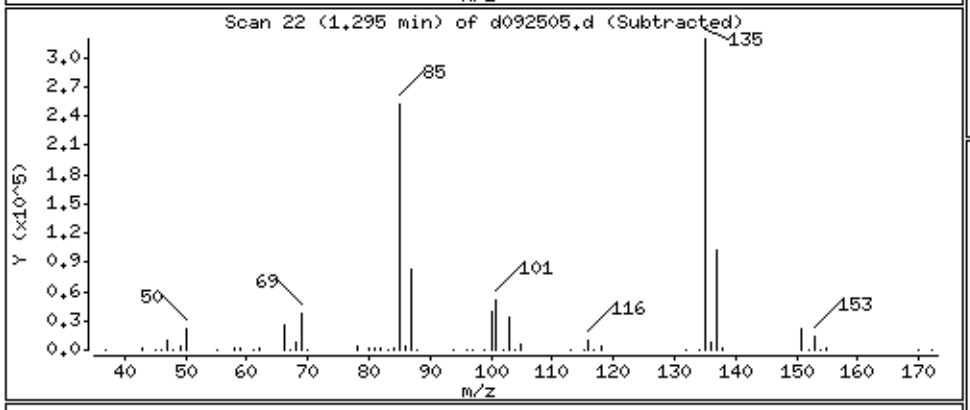
Column diameter: 0.53

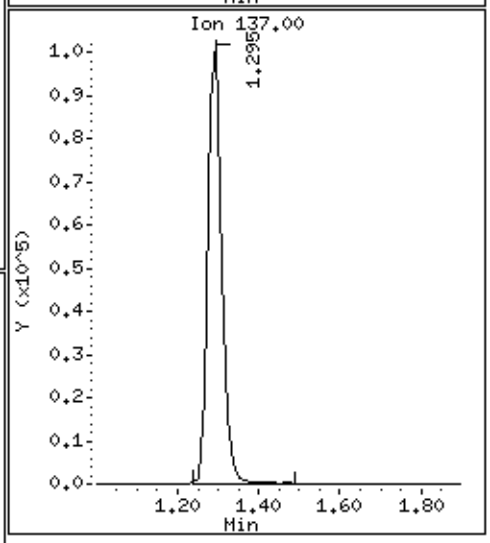
10 Freon 114

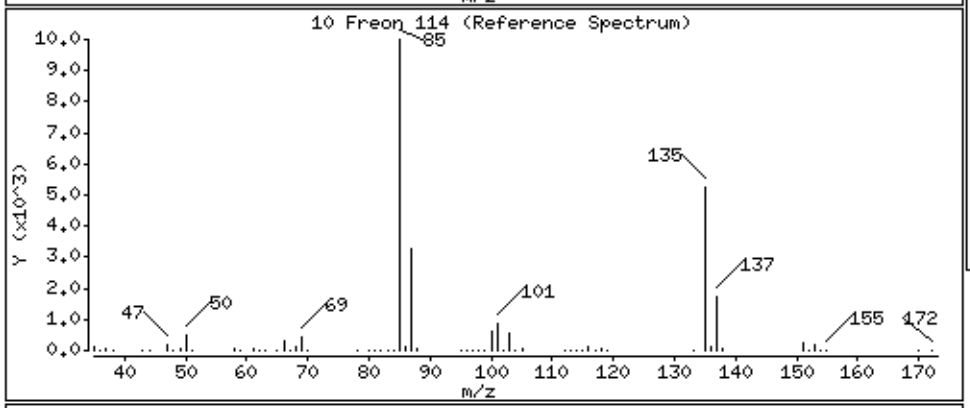
Concentration: 50.648 PPBV

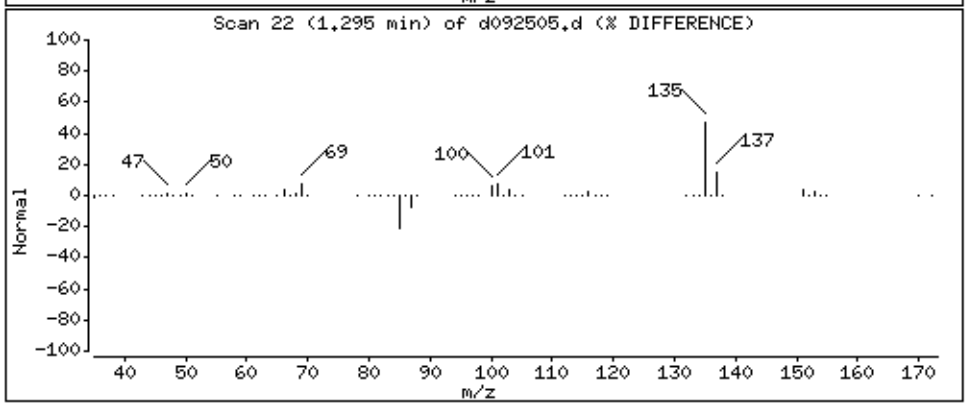












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Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

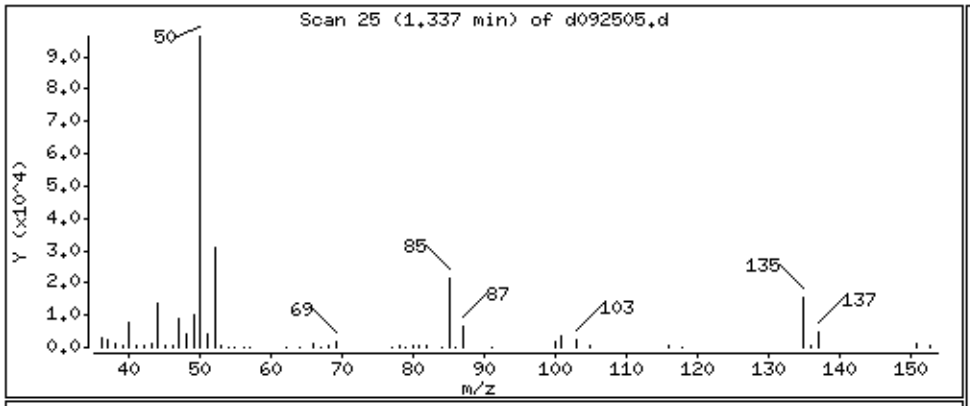
Operator: ccy

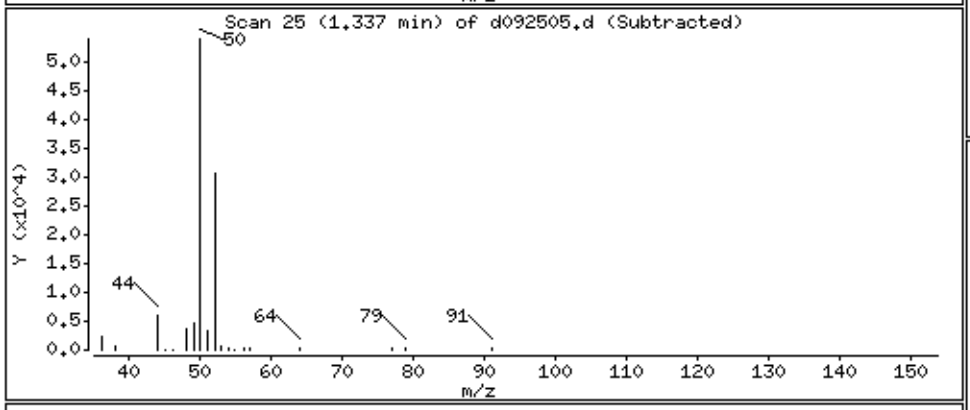
Column phase: RTx-624

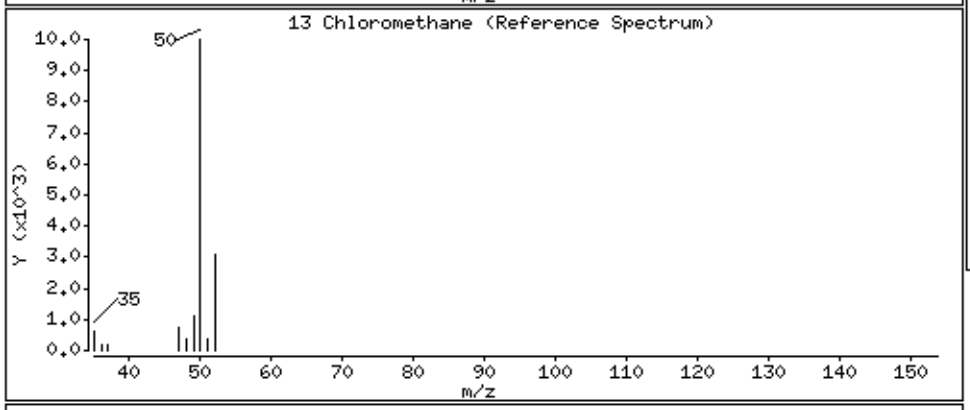
Column diameter: 0.53

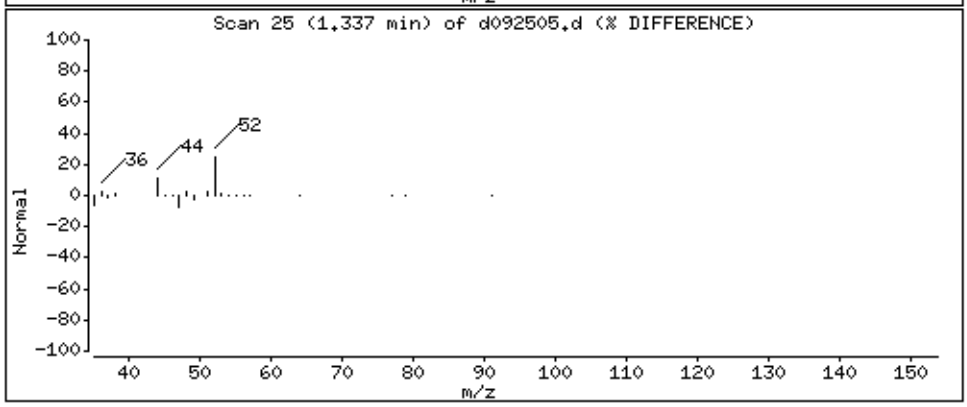
13 Chloromethane

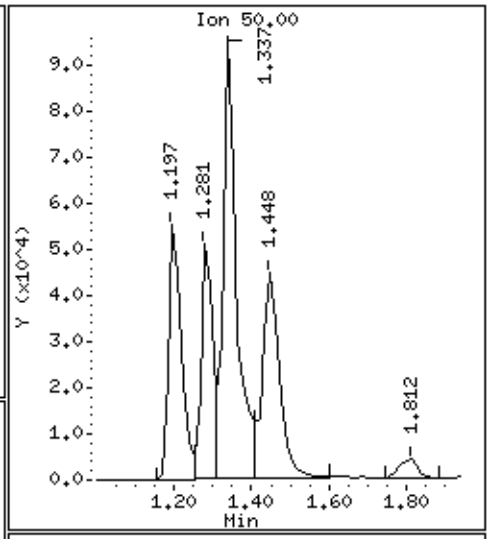
Concentration: 52.818 PPBV

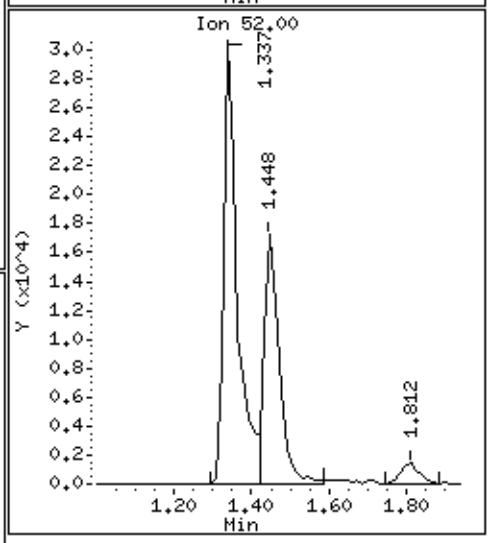












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Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

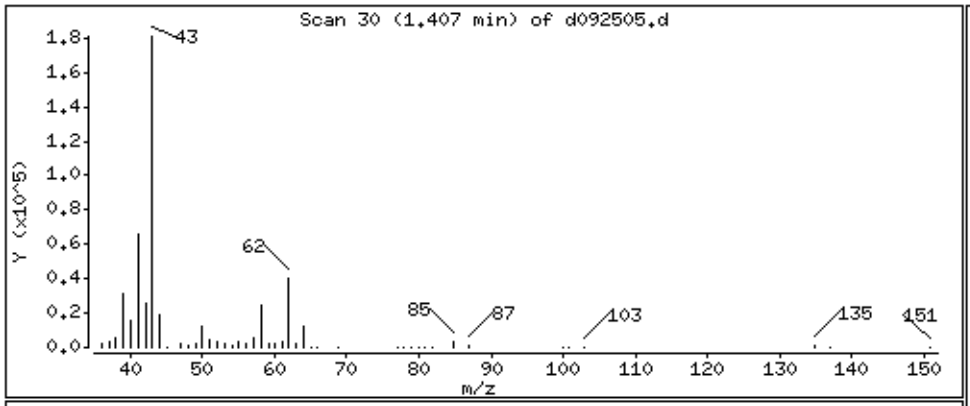
Operator: ccy

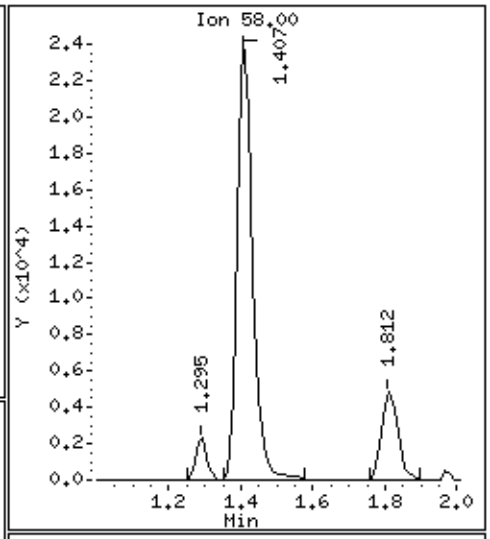
Column phase: RTx-624

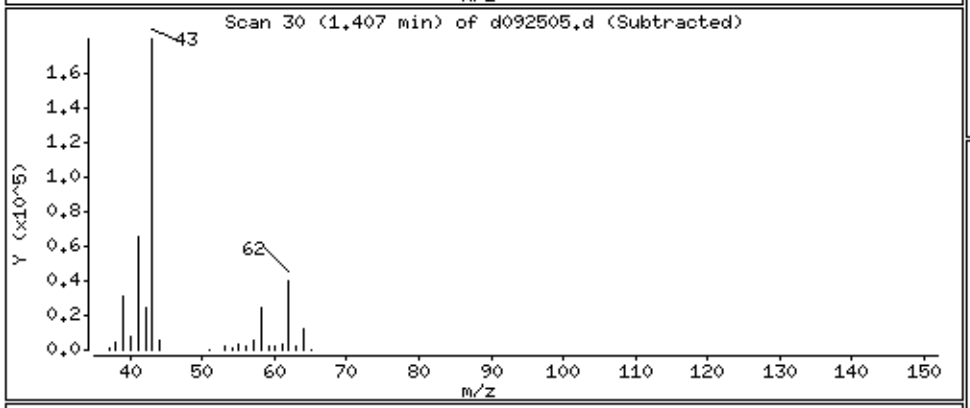
Column diameter: 0.53

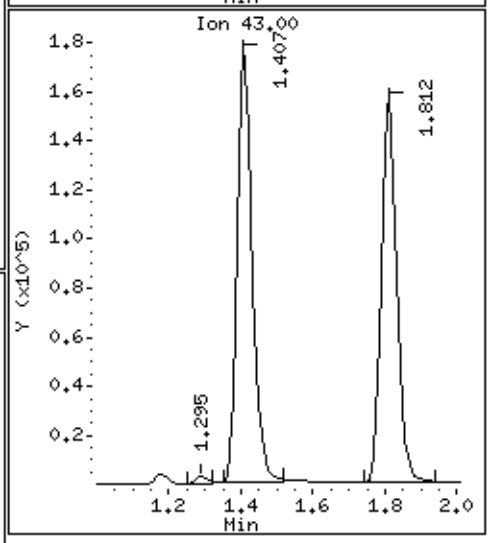
14 Butane

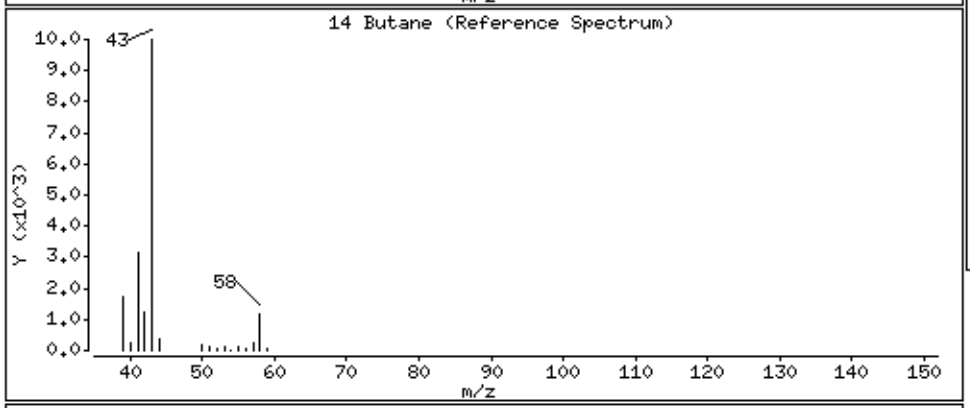
Concentration: 56.189 PPBV

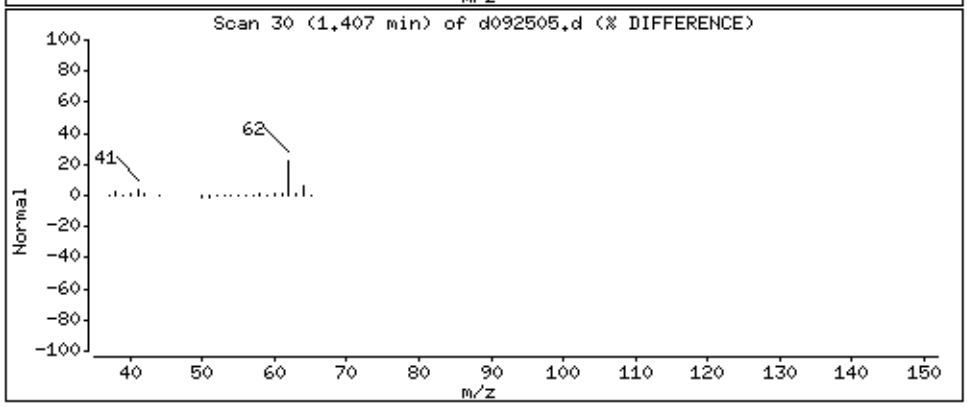












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

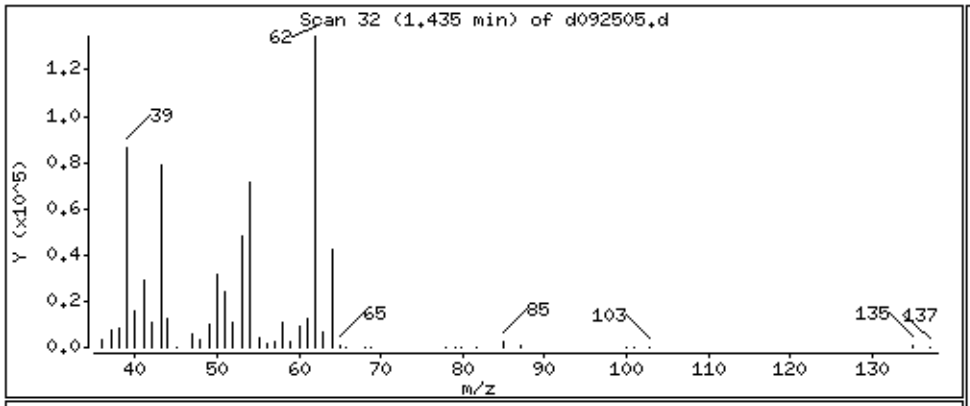
Operator: ccy

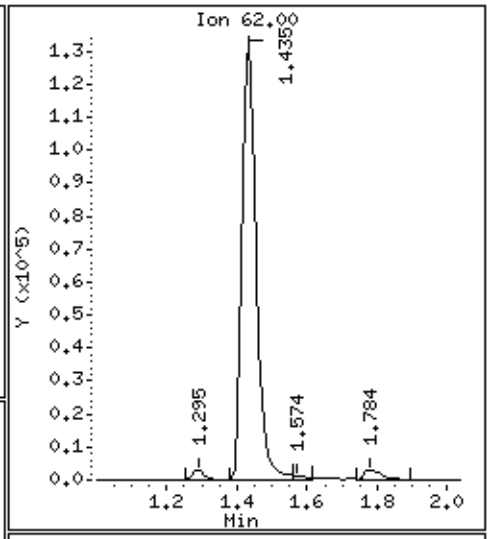
Column phase: RTx-624

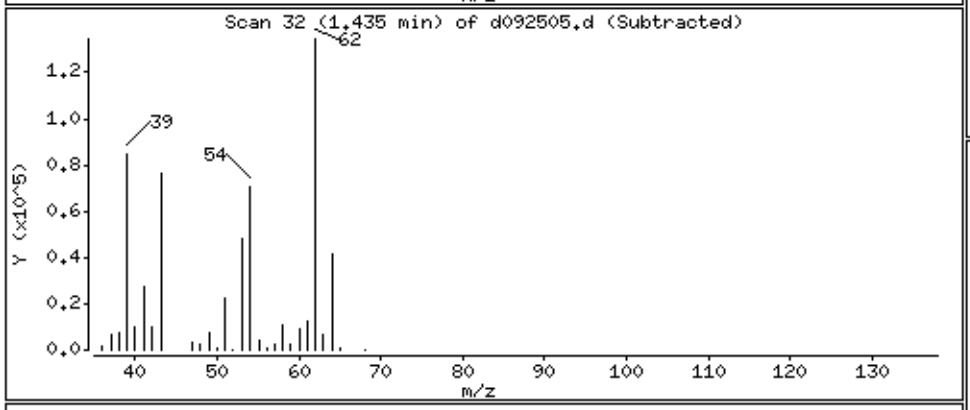
Column diameter: 0.53

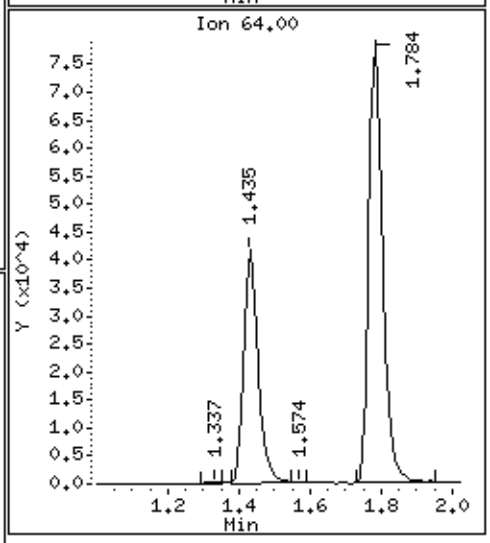
15 Vinyl Chloride

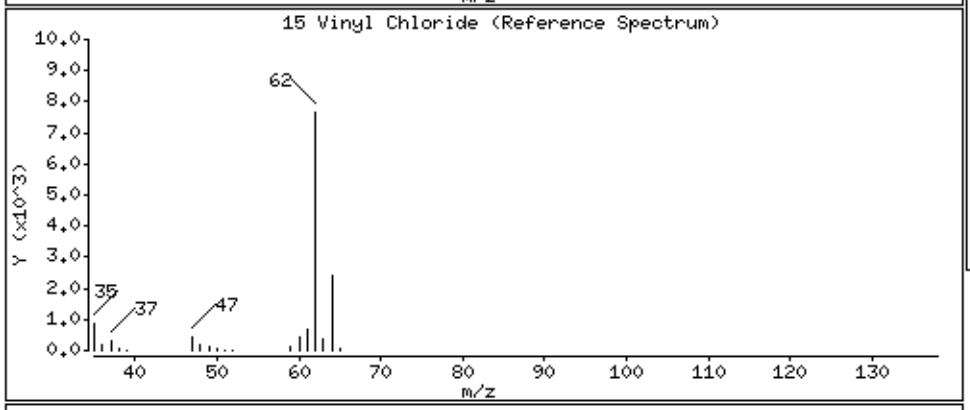
Concentration: 58.504 PPBV

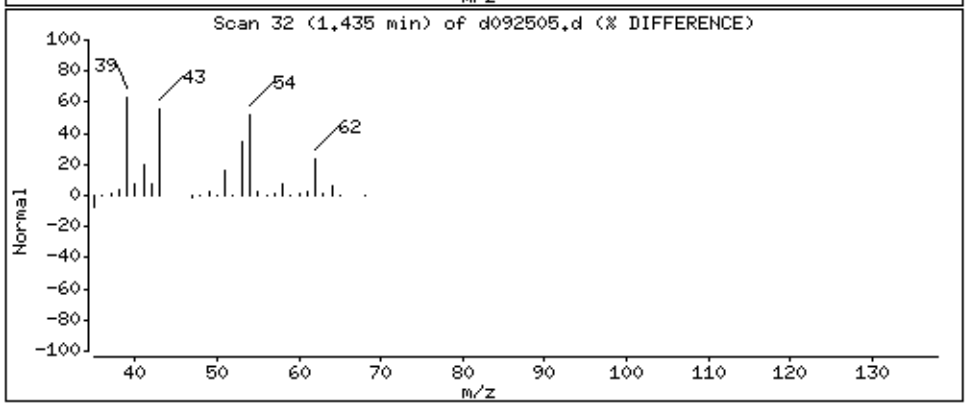












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

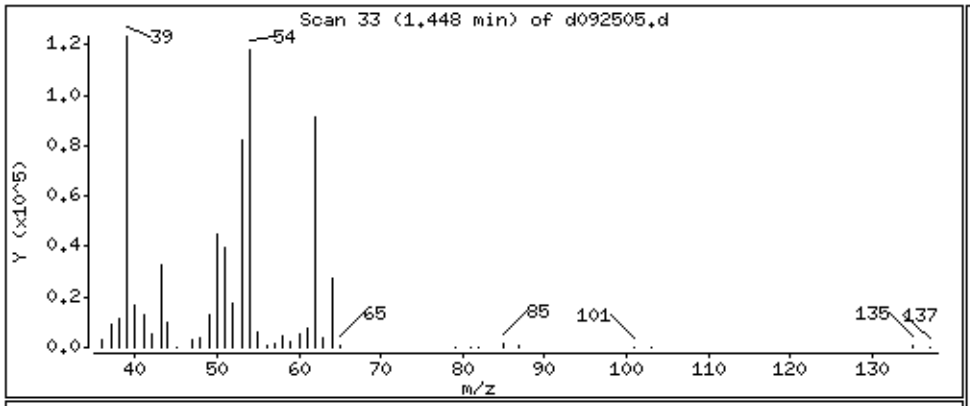
Operator: ccy

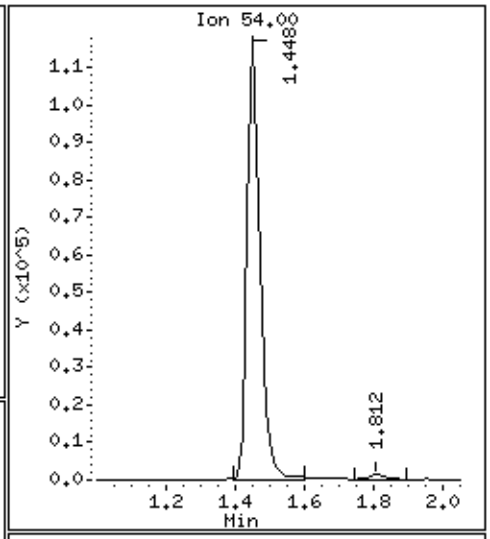
Column phase: RTx-624

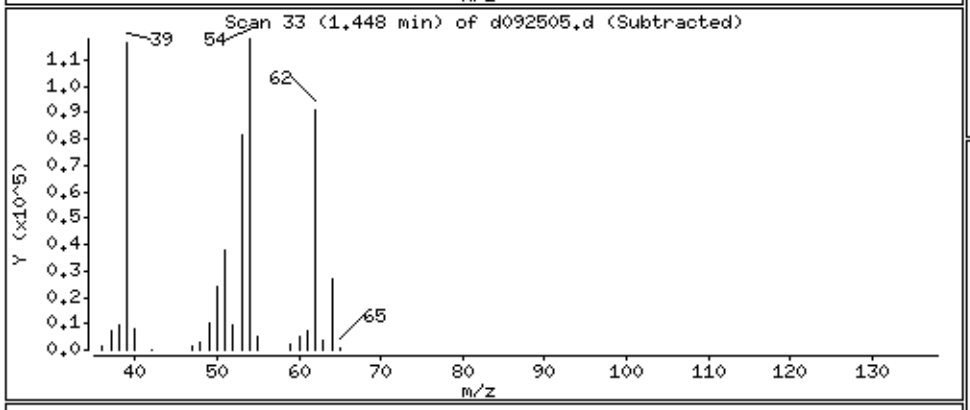
Column diameter: 0.53

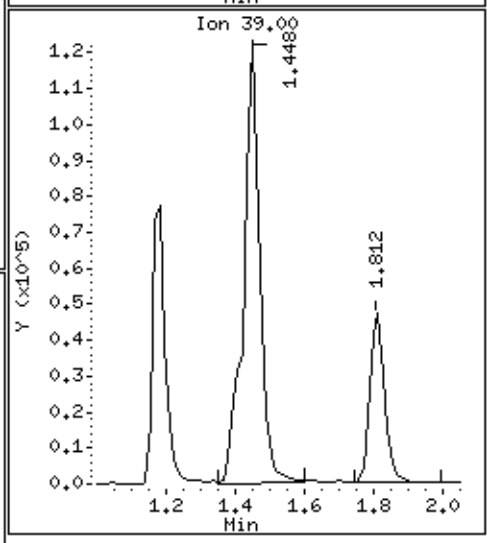
18 1,3-Butadiene

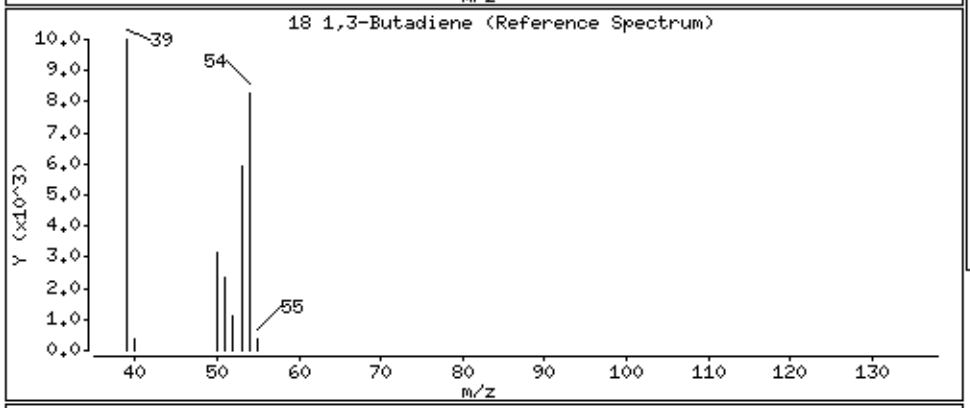
Concentration: 54.080 PPBV

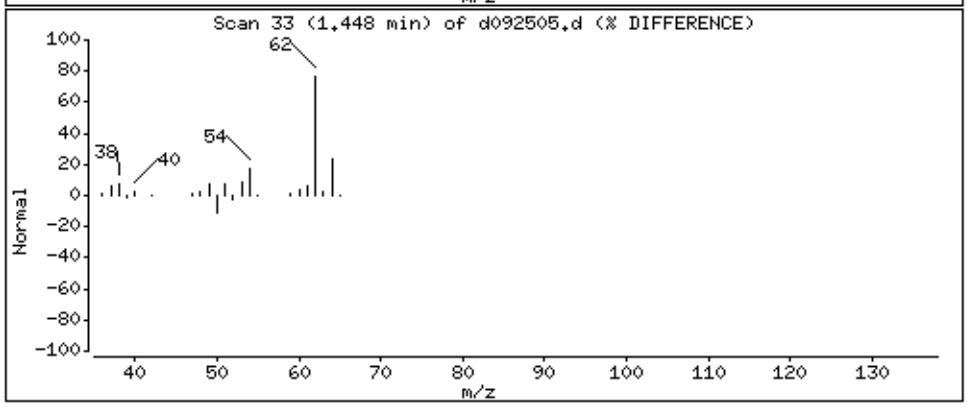












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

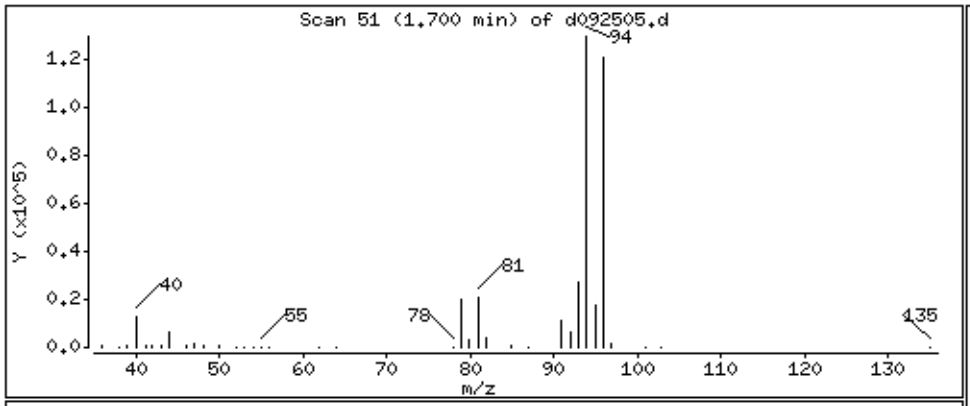
Operator: ccy

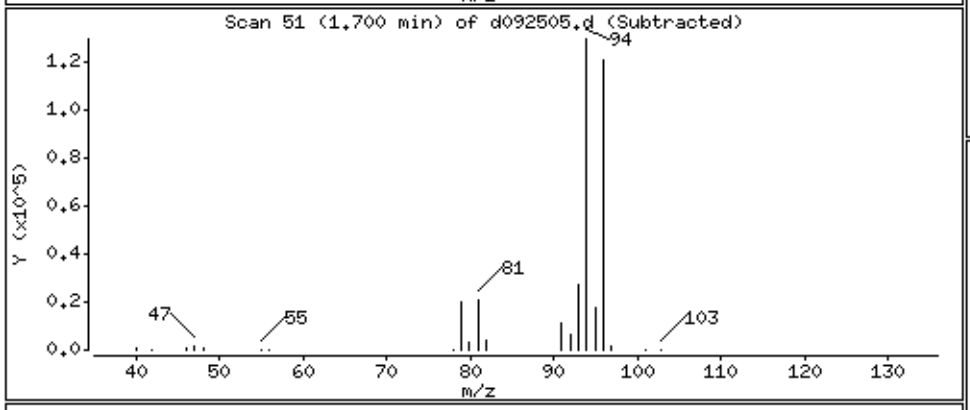
Column phase: RTx-624

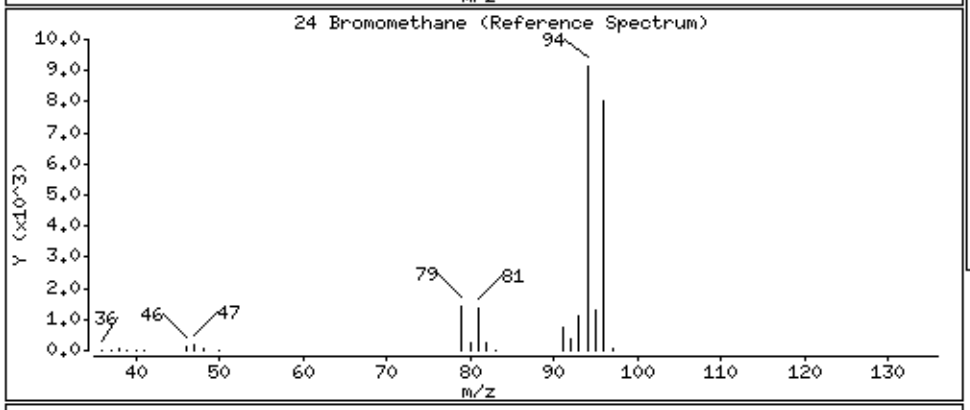
Column diameter: 0.53

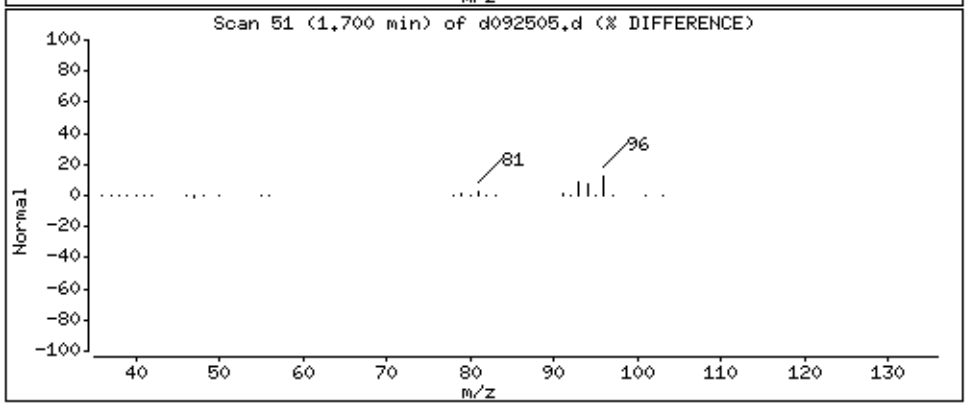
24 Bromomethane

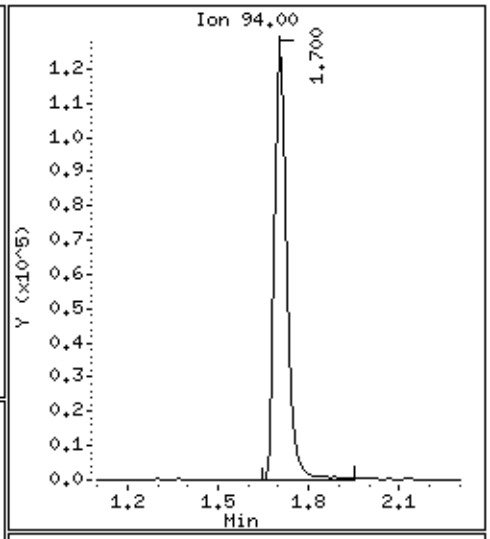
Concentration: 50.743 PPBV

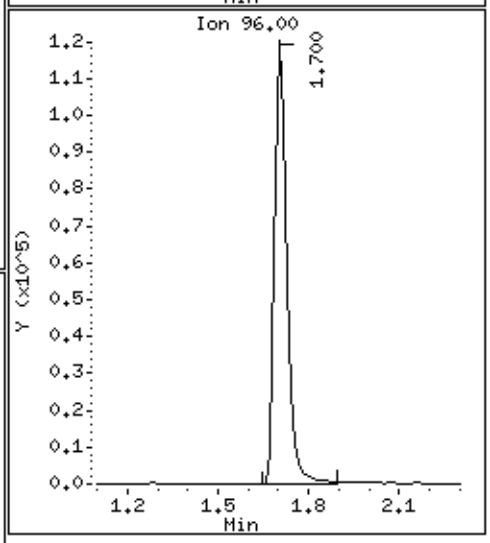












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

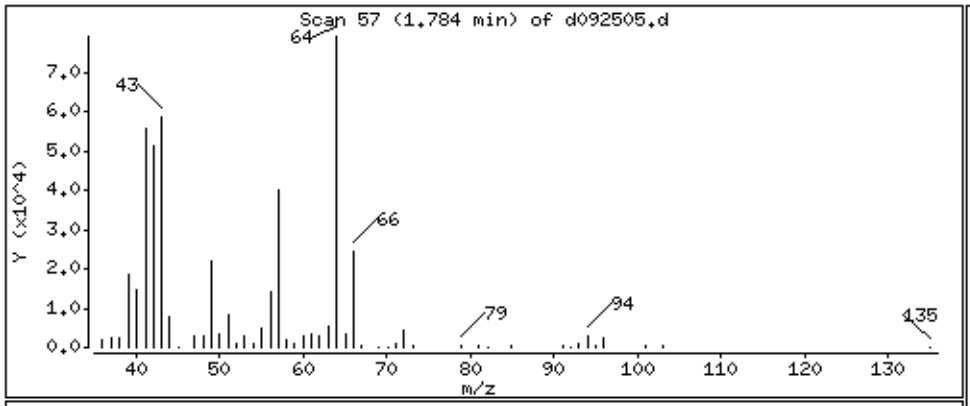
Operator: ccy

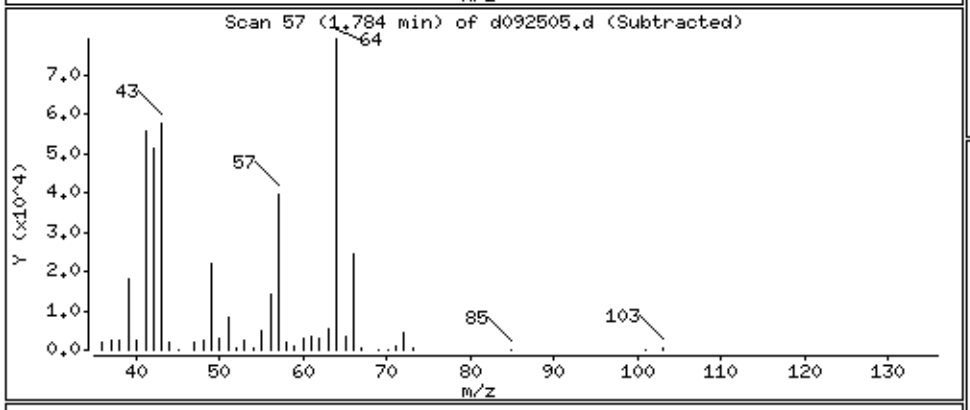
Column phase: RTx-624

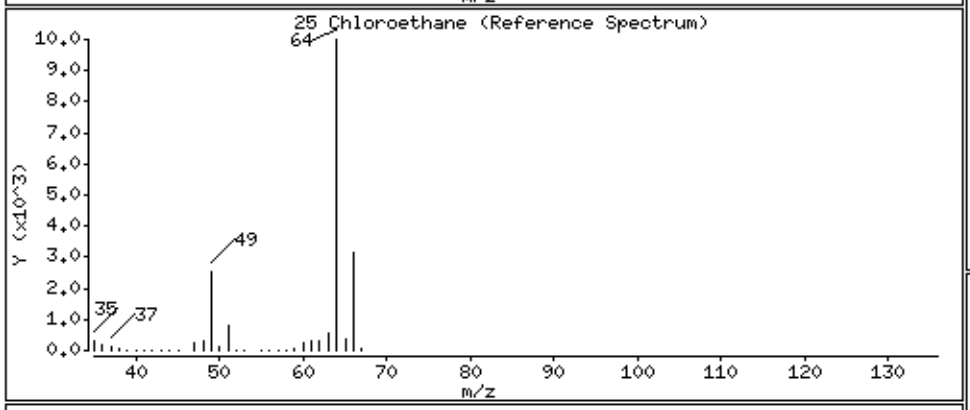
Column diameter: 0.53

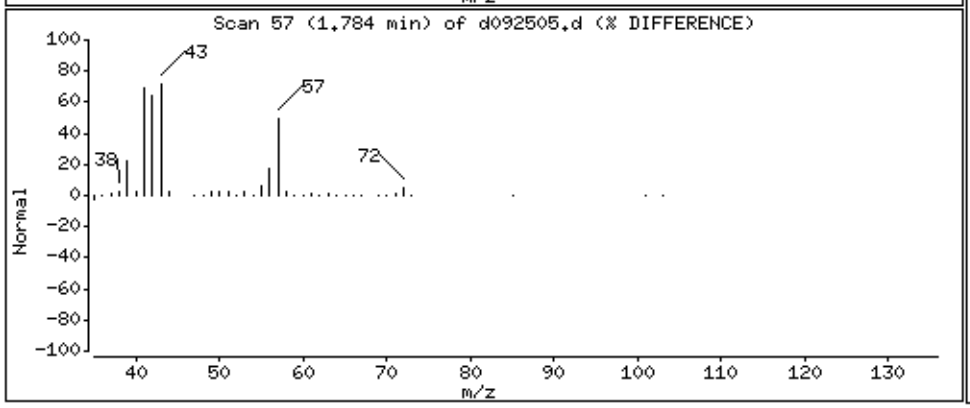
25 Chloroethane

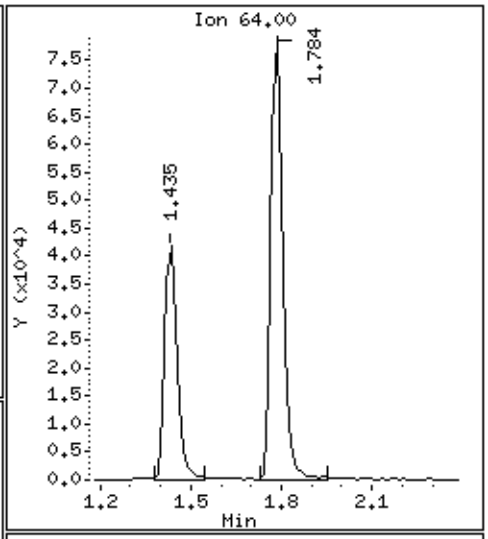
Concentration: 50.111 PPBV

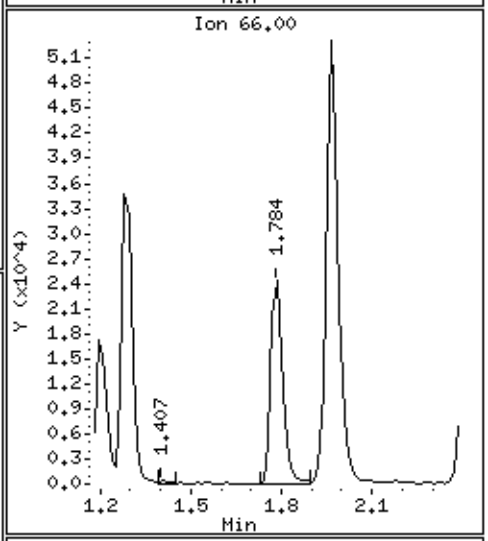


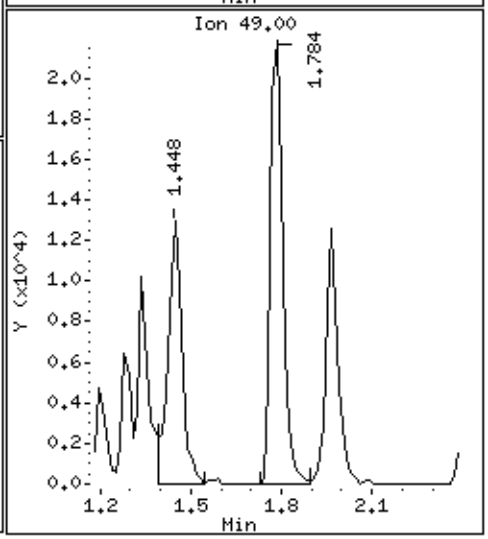












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

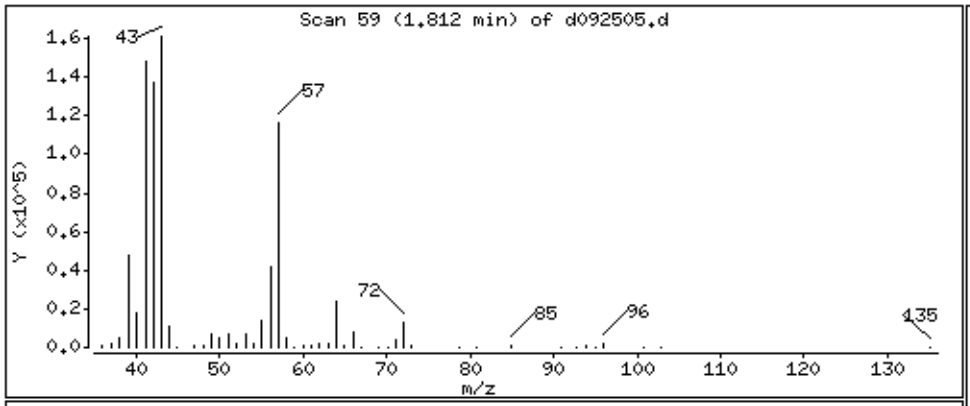
Operator: ccy

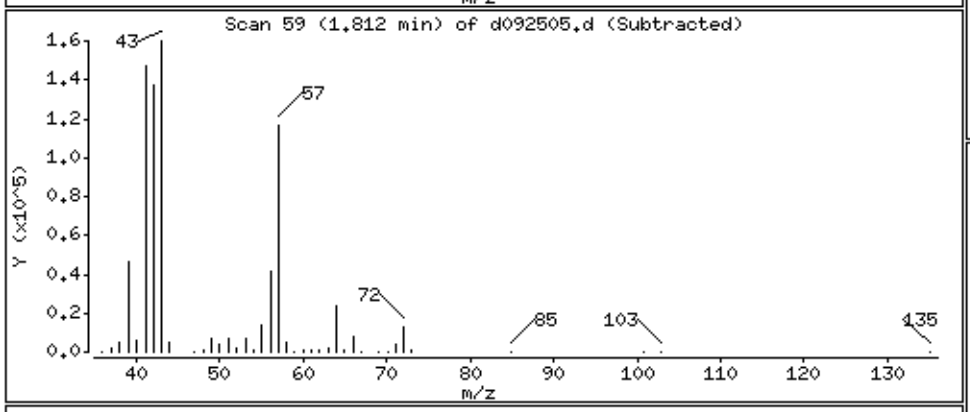
Column phase: RTx-624

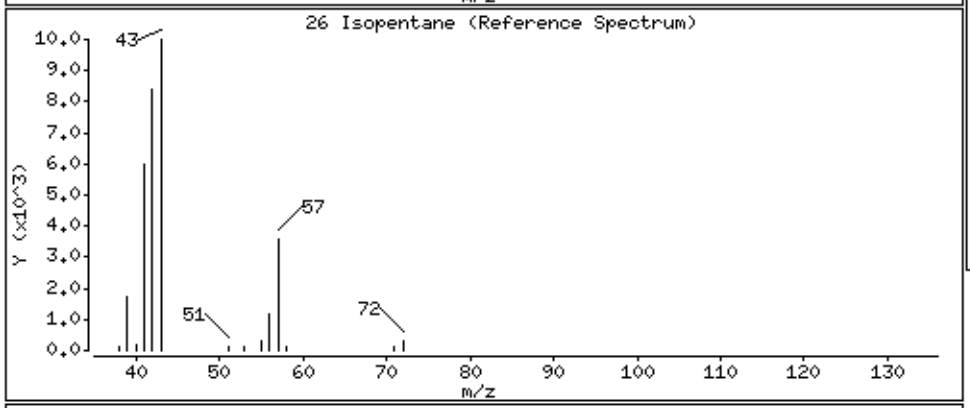
Column diameter: 0.53

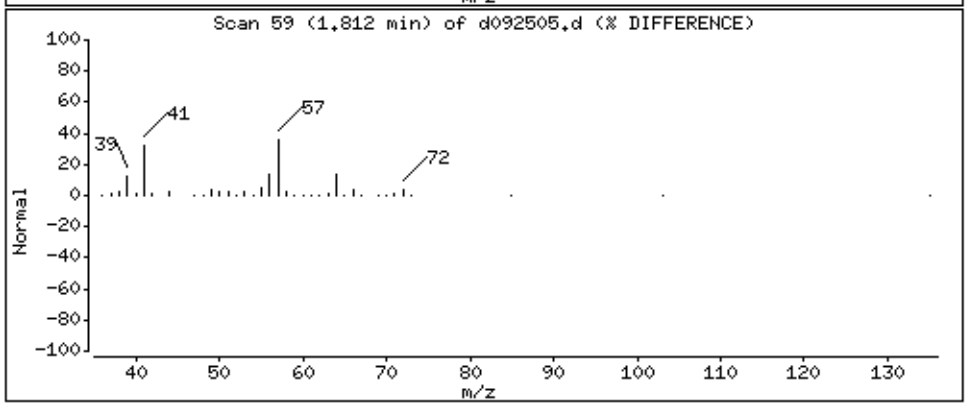
26 Isopentane

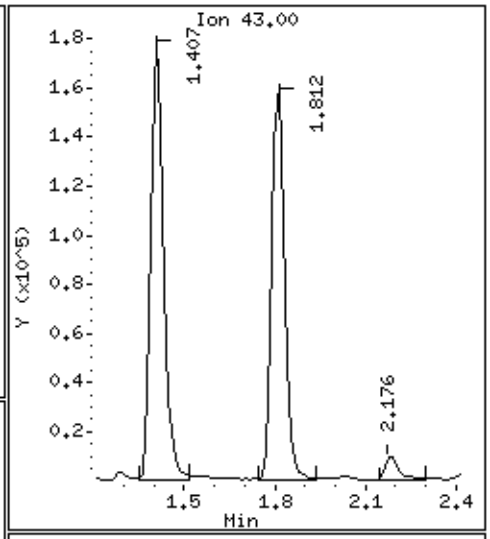
Concentration: 54.712 PPBV

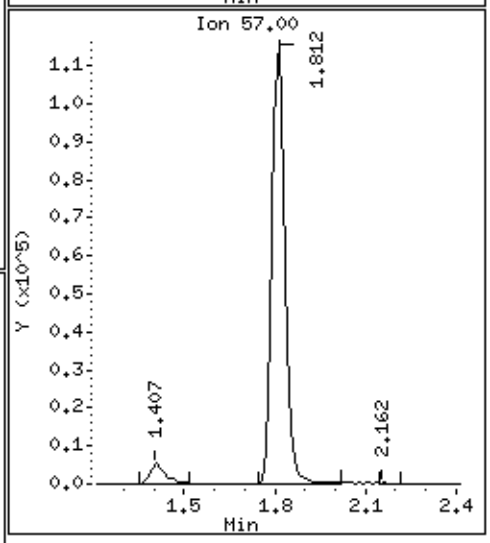












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

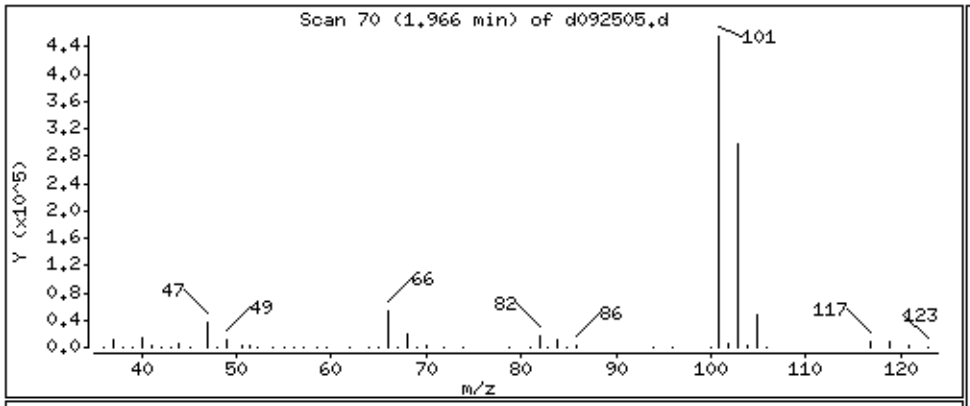
Operator: ccy

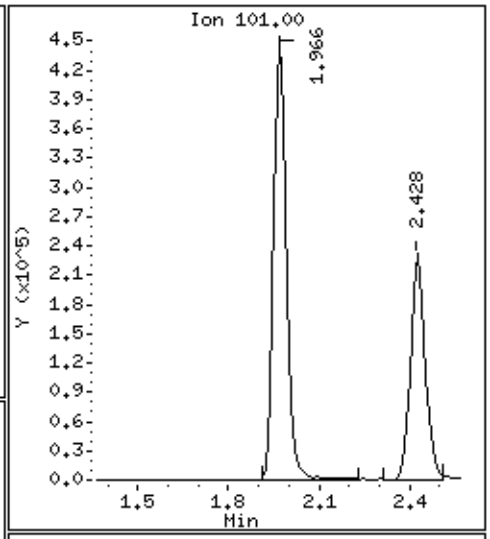
Column phase: RTx-624

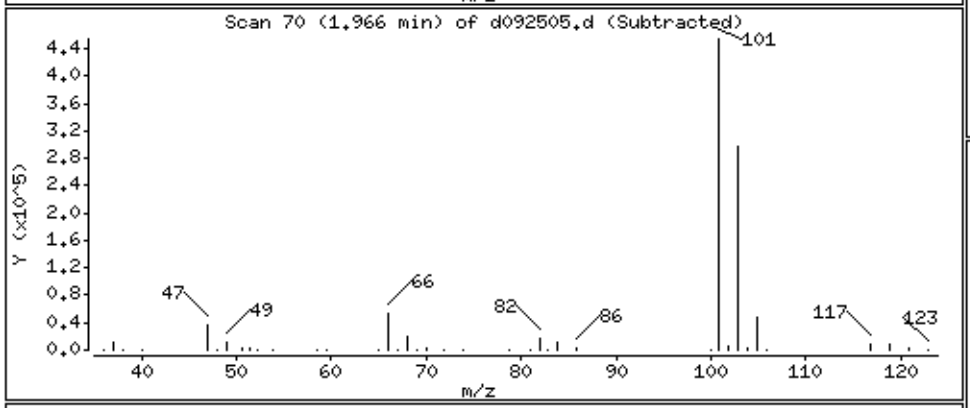
Column diameter: 0.53

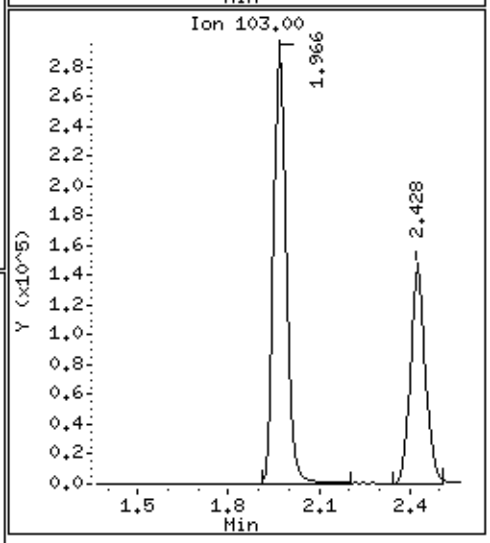
28 Trichlorofluoromethane/Fr11

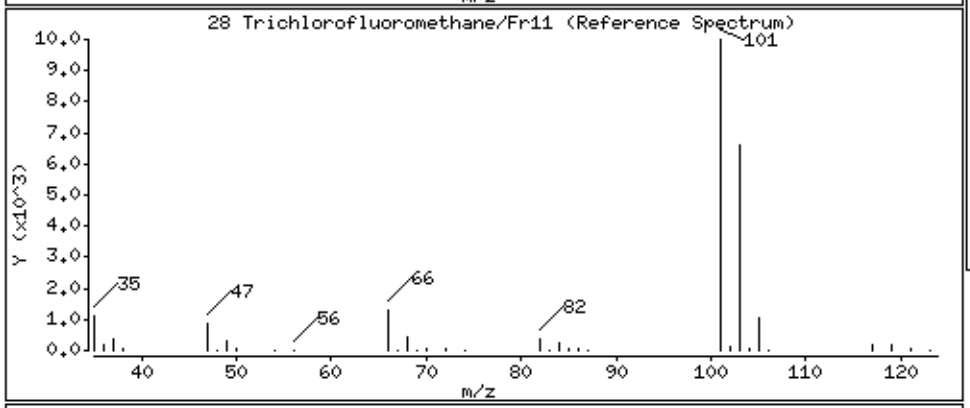
Concentration: 53.184 PPBV

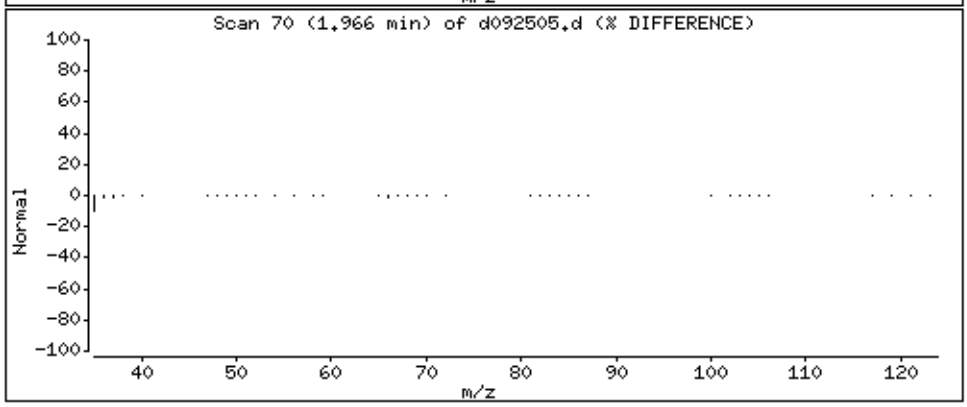












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

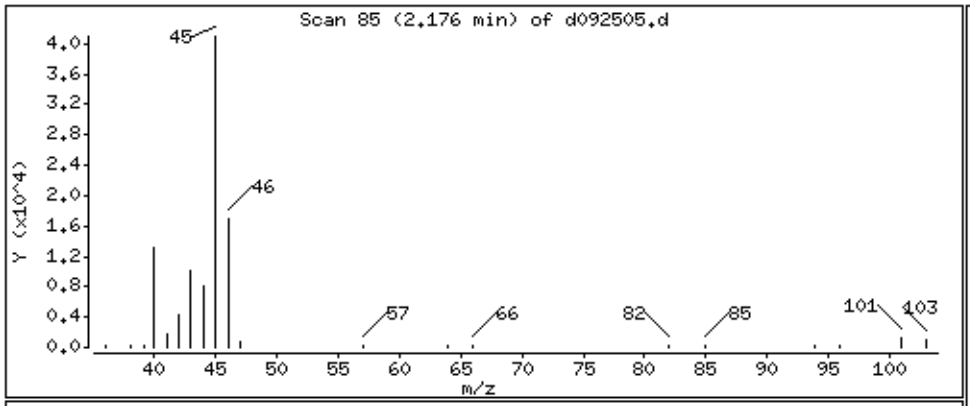
Operator: ccy

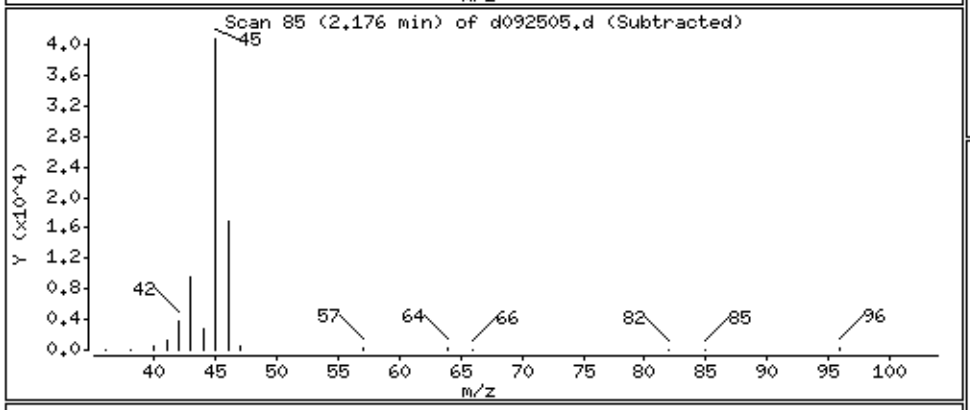
Column phase: RTx-624

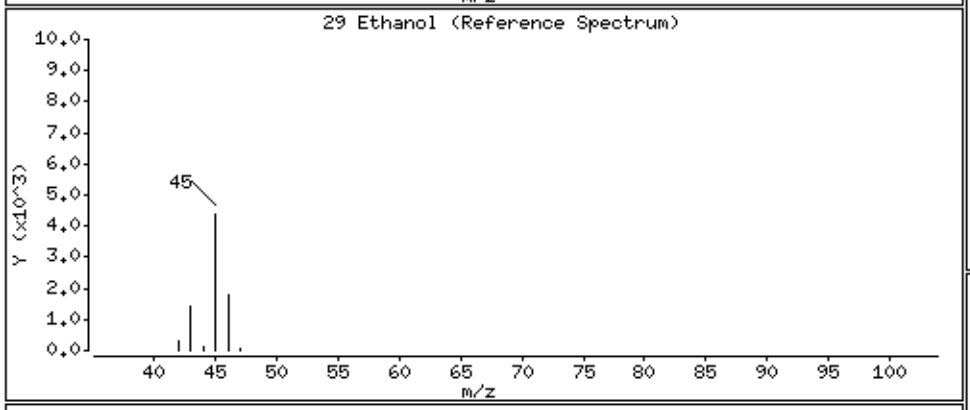
Column diameter: 0.53

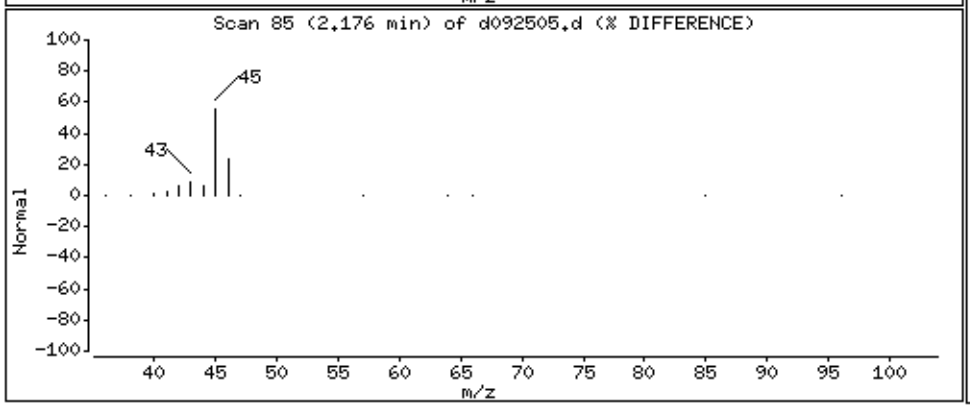
29 Ethanol

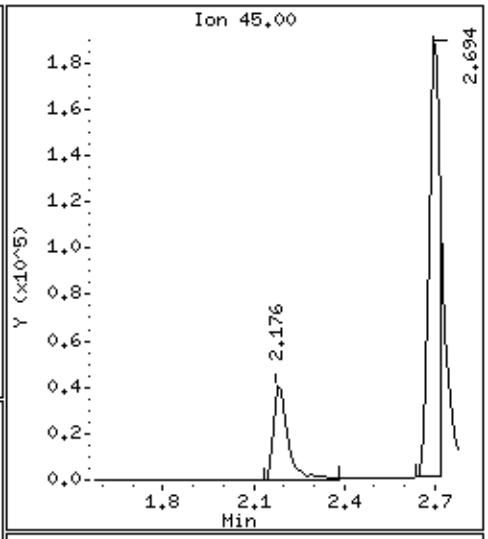
Concentration: 46.102 PPBV

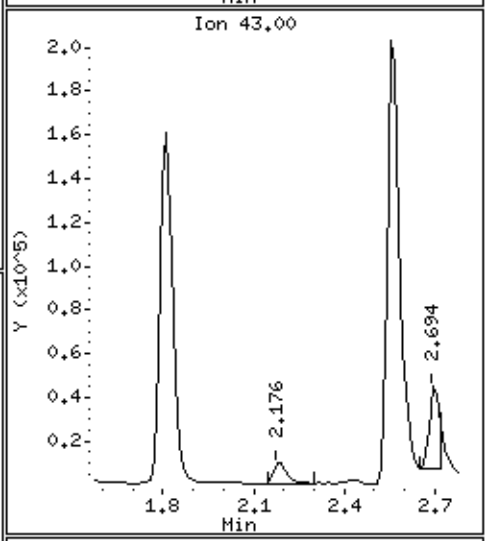


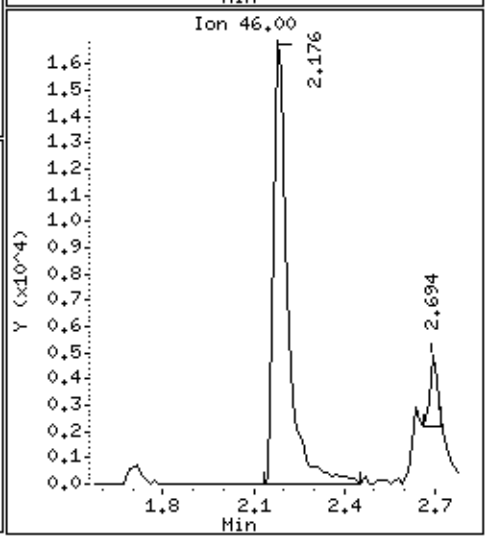












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

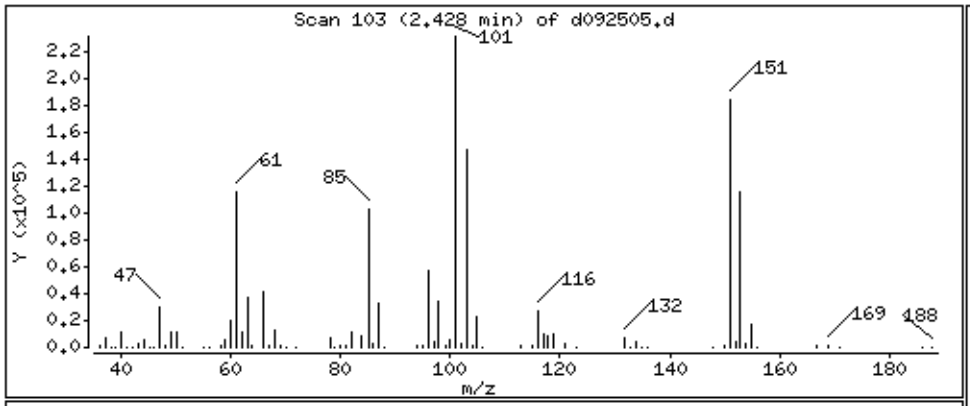
Operator: ccy

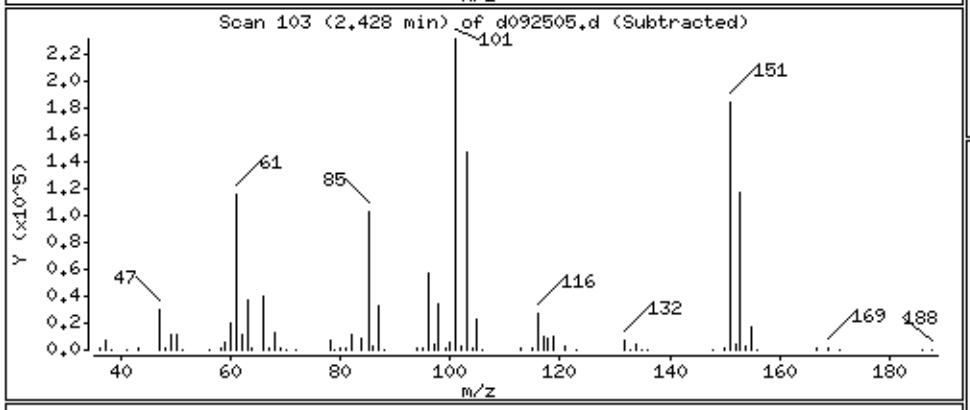
Column phase: RTx-624

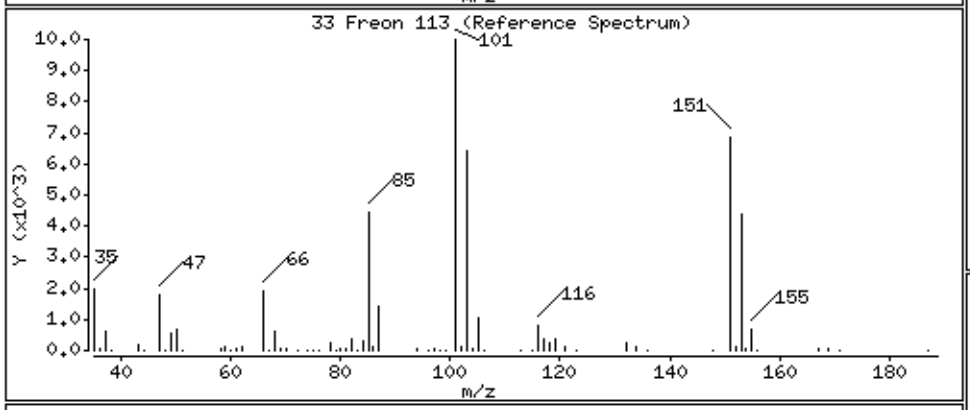
Column diameter: 0.53

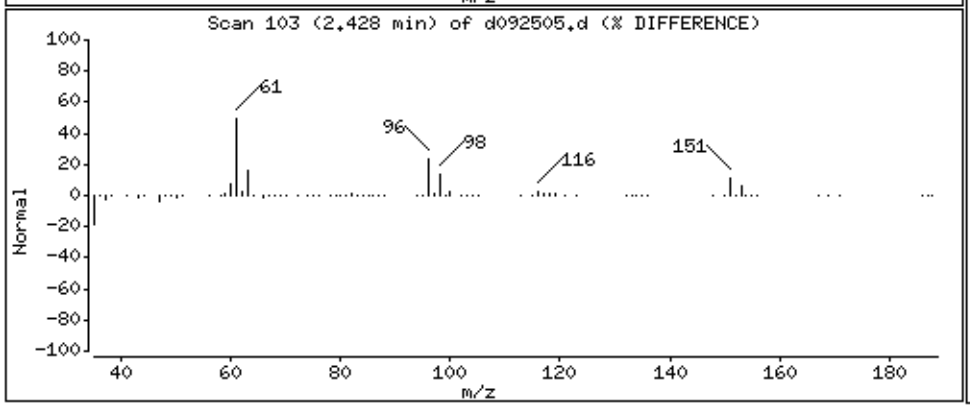
33 Freon 113

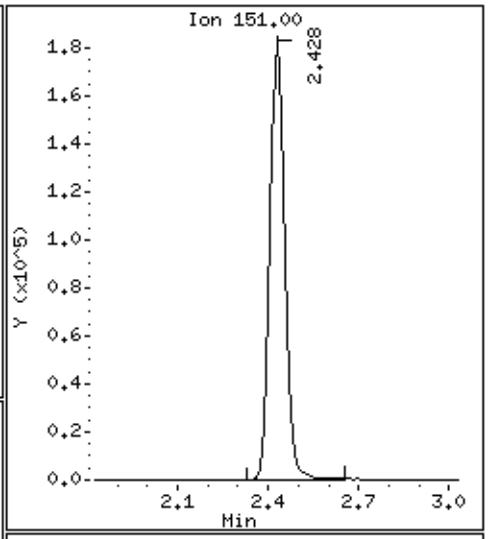
Concentration: 46.074 PPBV

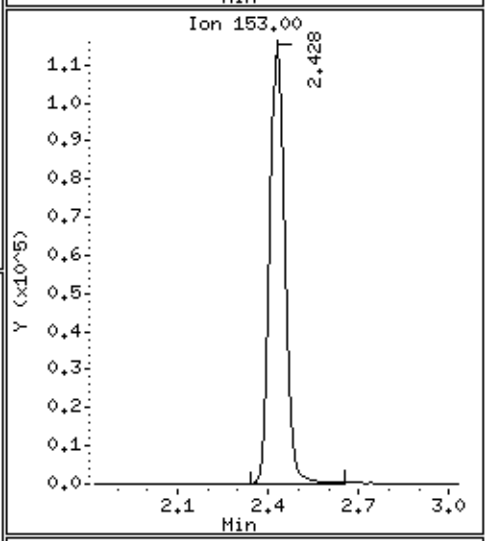


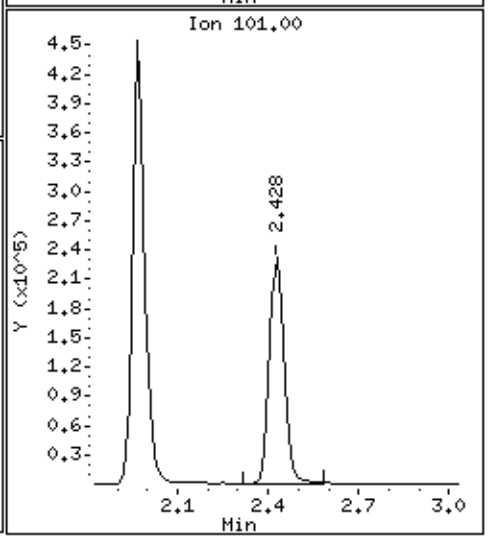












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

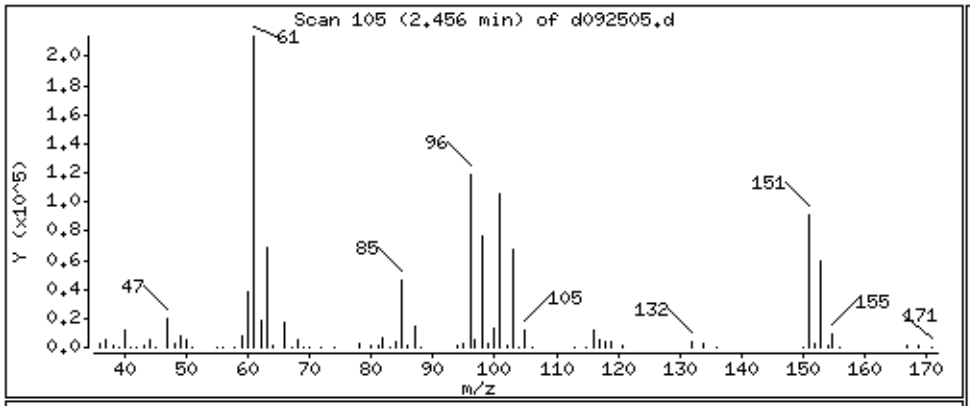
Operator: ccy

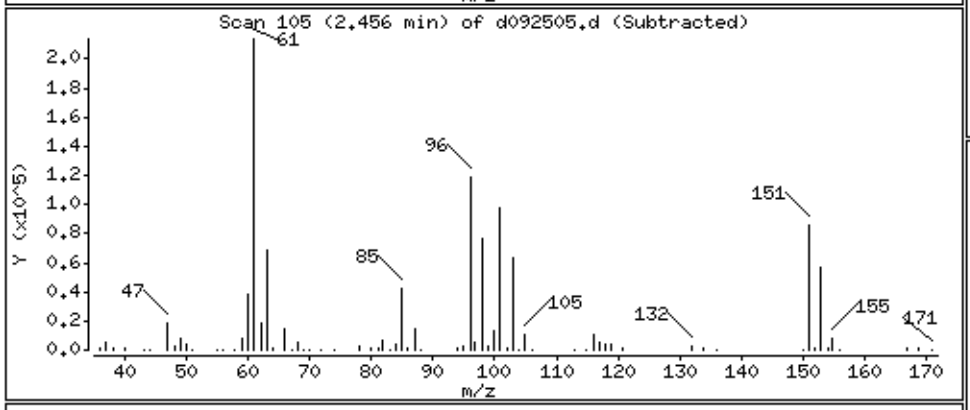
Column phase: RTx-624

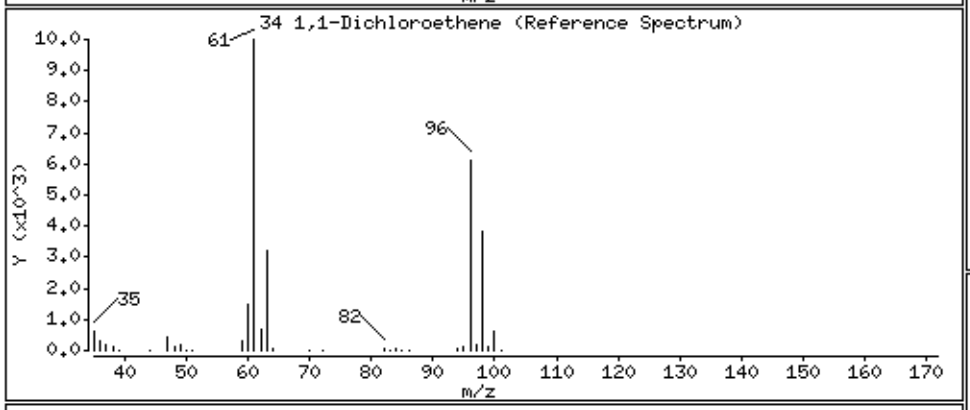
Column diameter: 0.53

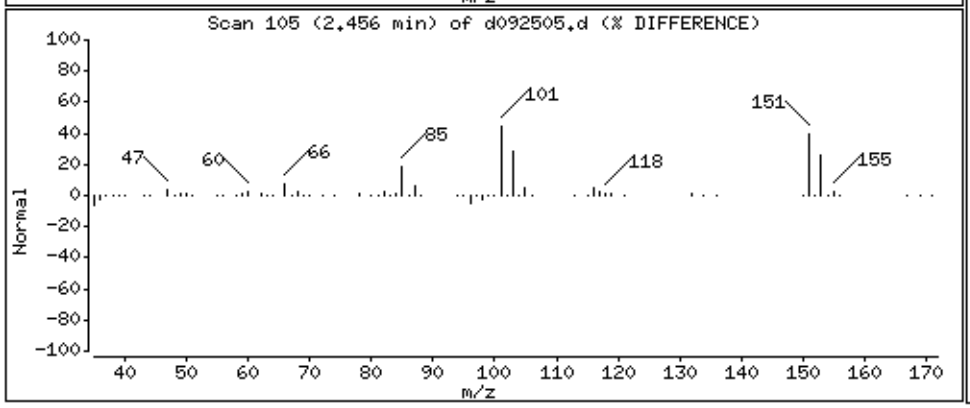
34 1,1-Dichloroethene

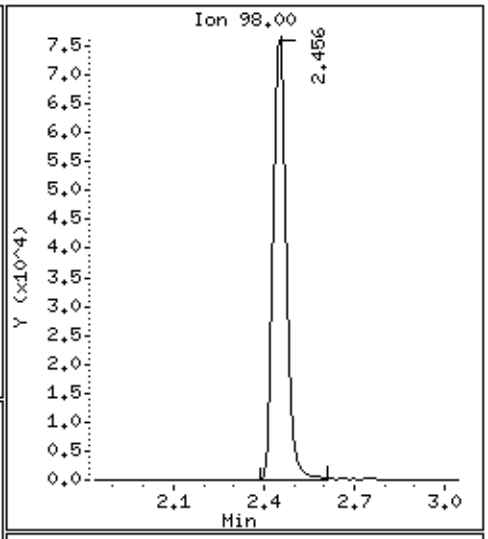
Concentration: 46.033 PPBV

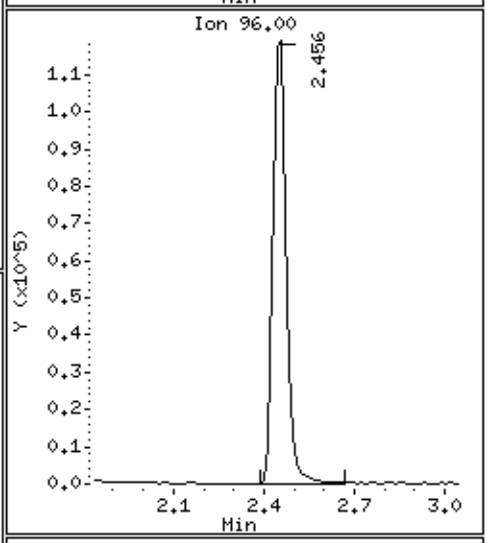


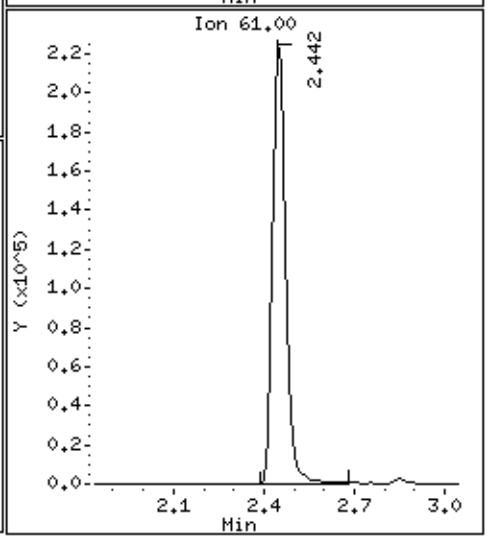












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

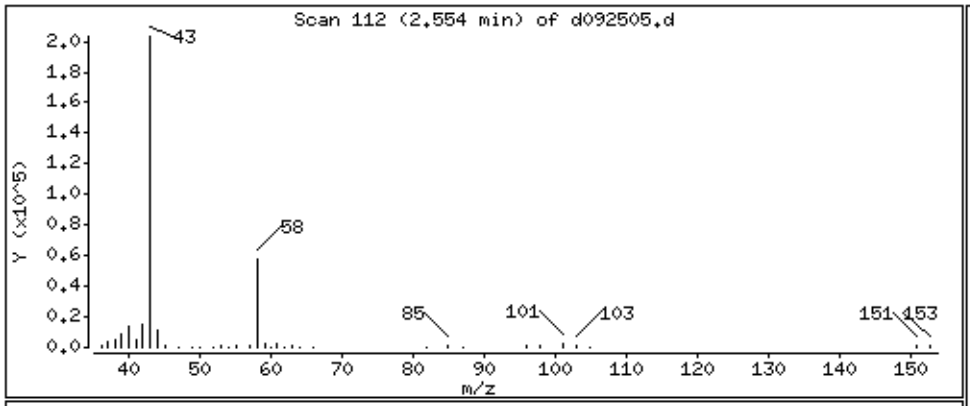
Operator: ccy

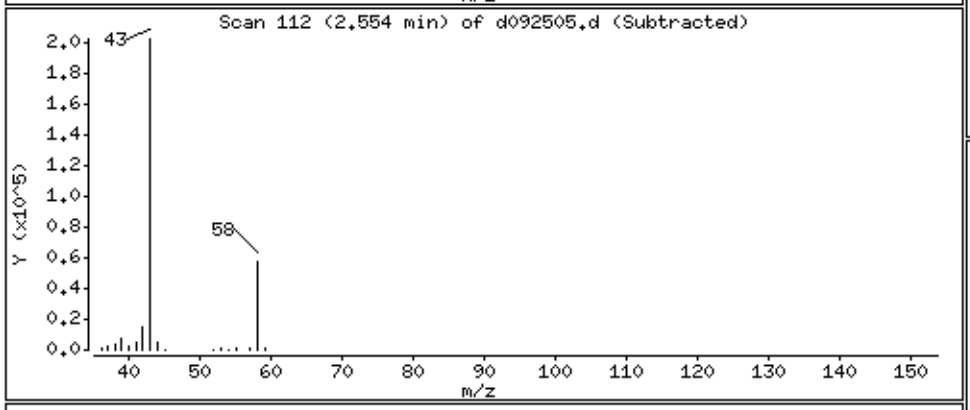
Column phase: RTx-624

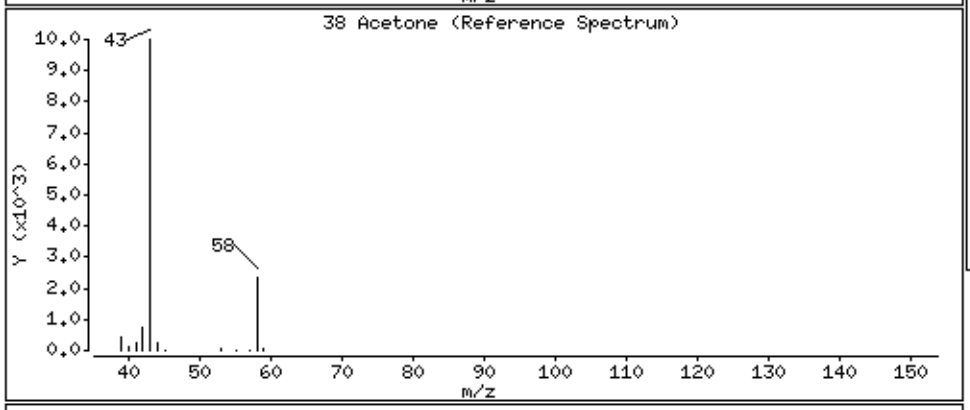
Column diameter: 0.53

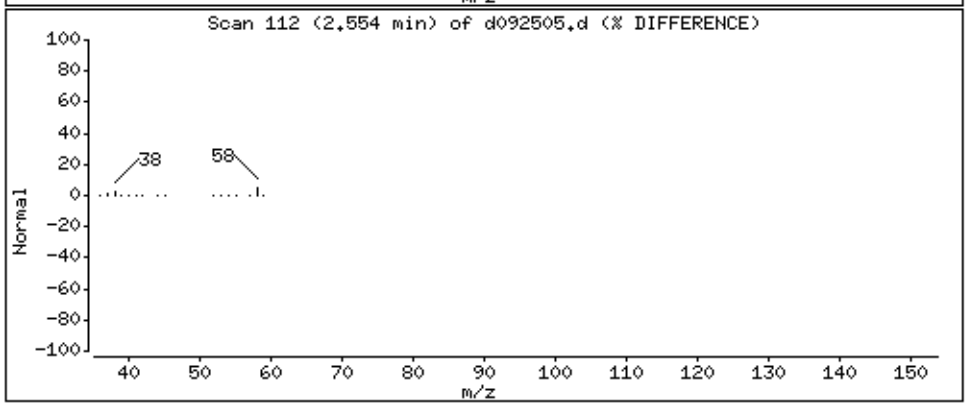
38 Acetone

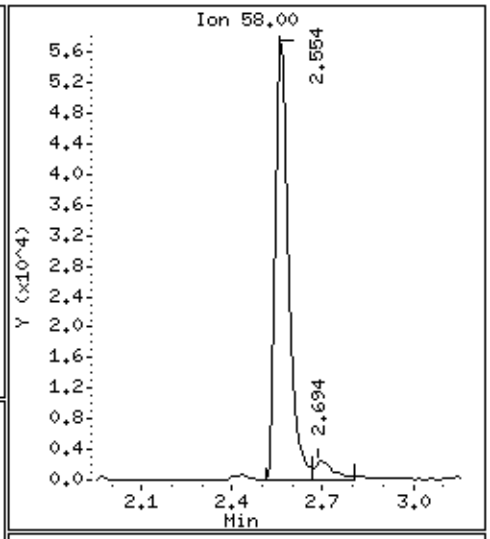
Concentration: 45.107 PPBV

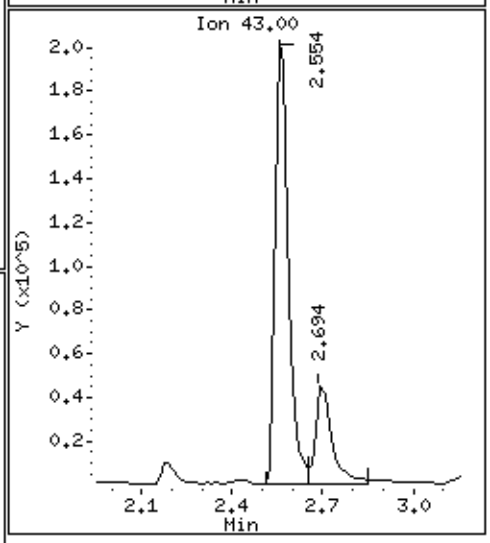












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

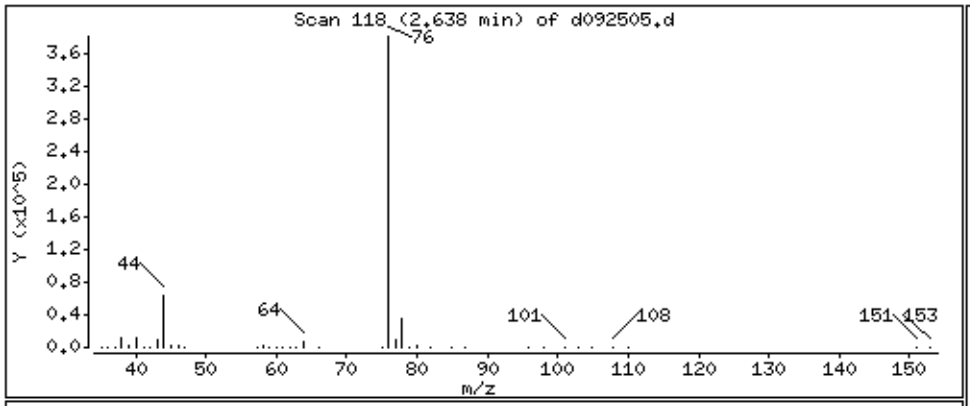
Operator: ccy

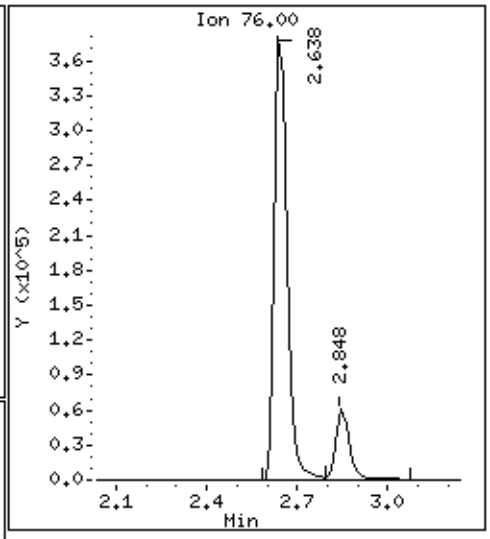
Column phase: RTx-624

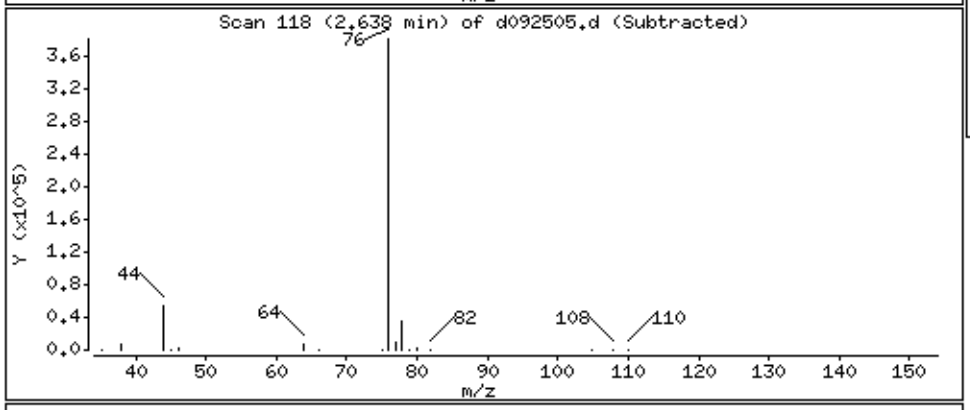
Column diameter: 0.53

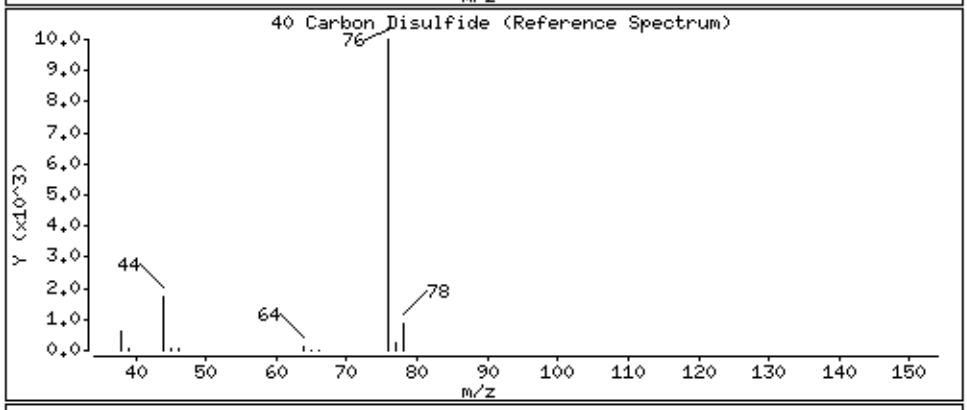
40 Carbon Disulfide

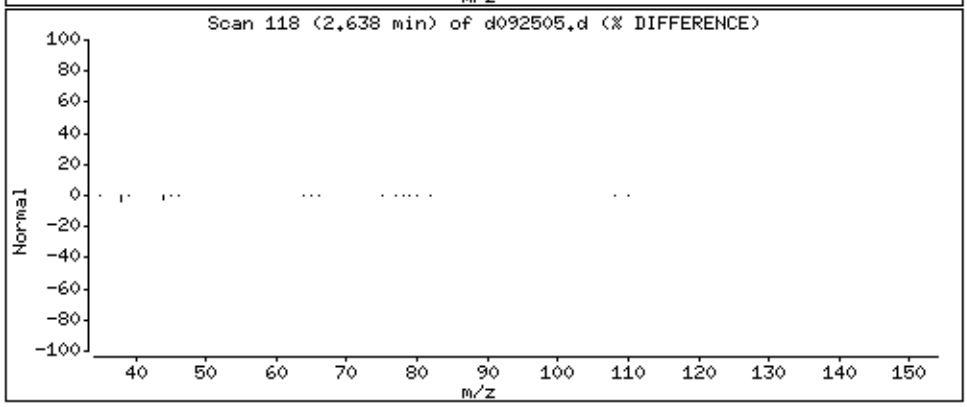
Concentration: 50.620 PPBV











Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

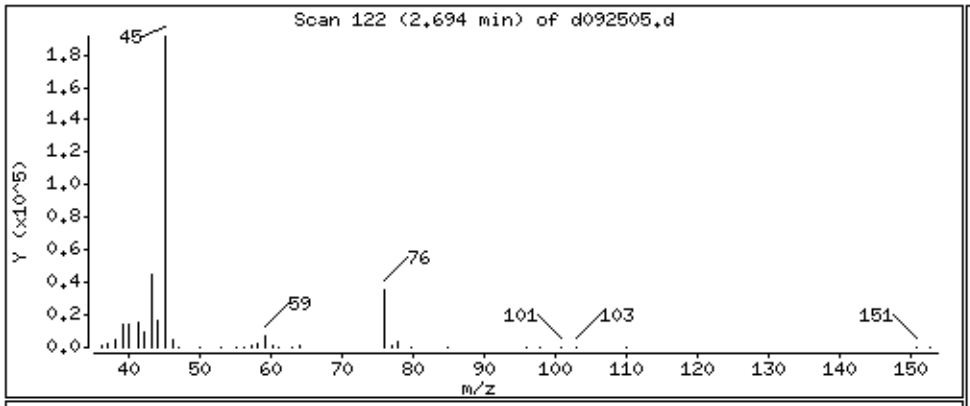
Operator: ccy

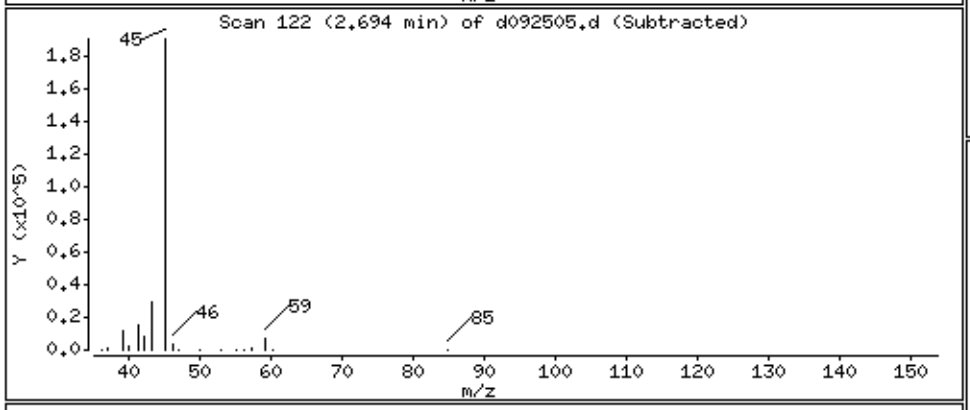
Column phase: RTx-624

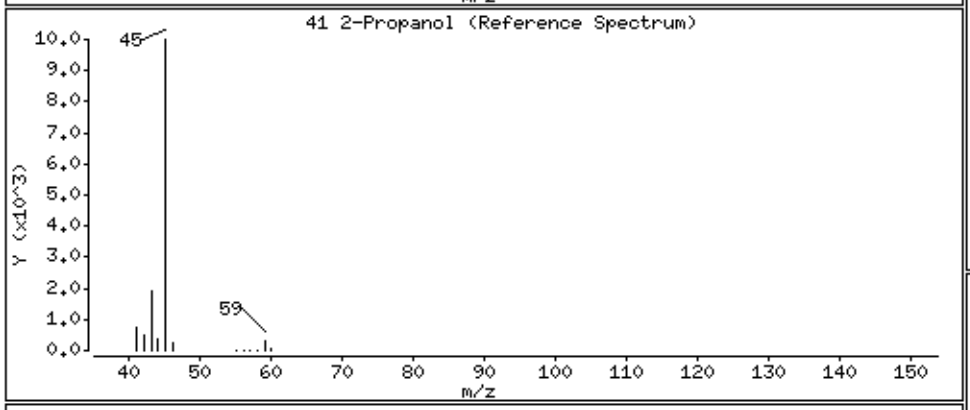
Column diameter: 0.53

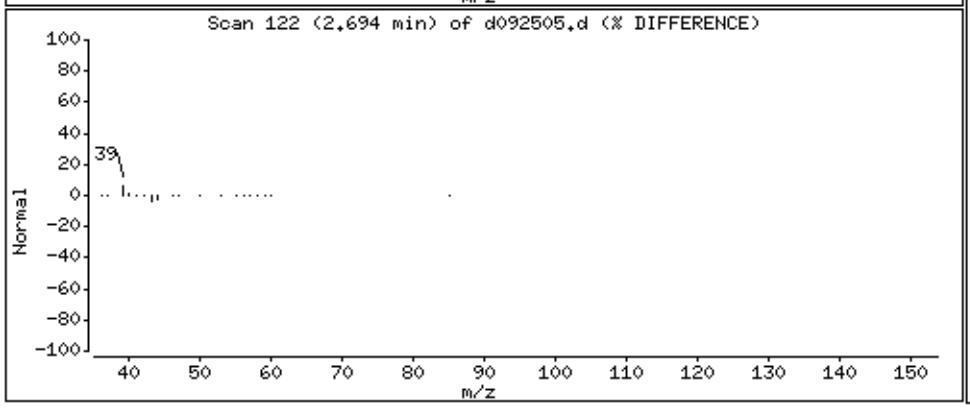
41 2-Propanol

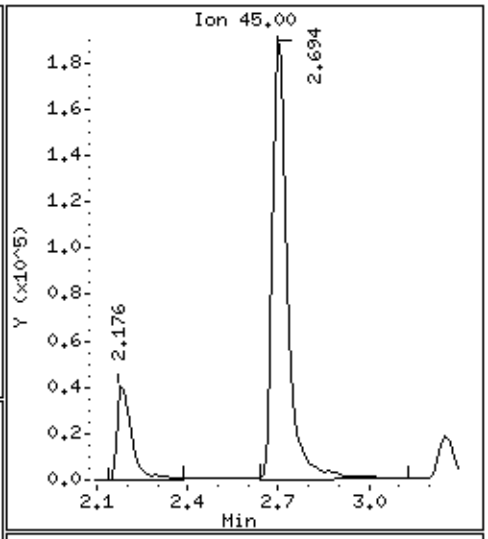
Concentration: 47.828 PPBV

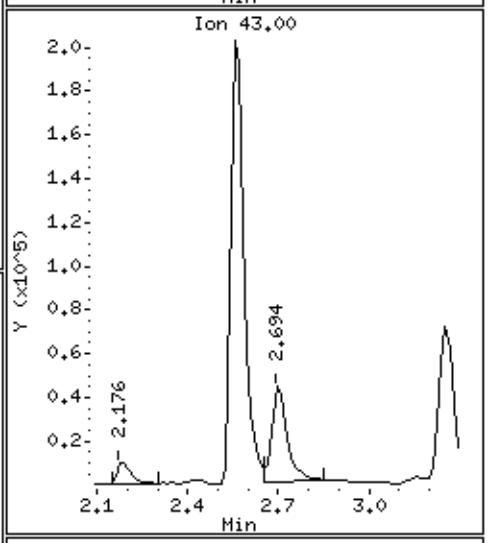


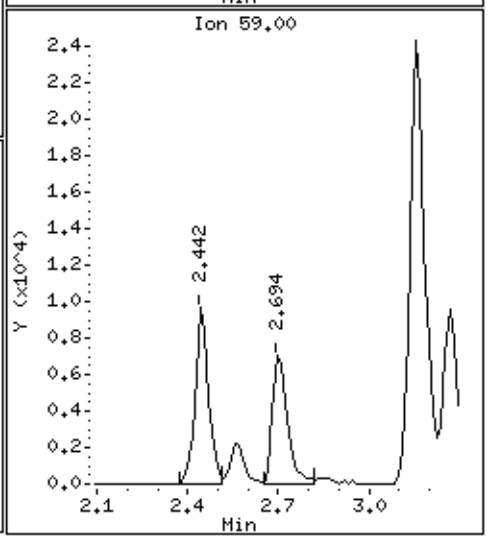












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

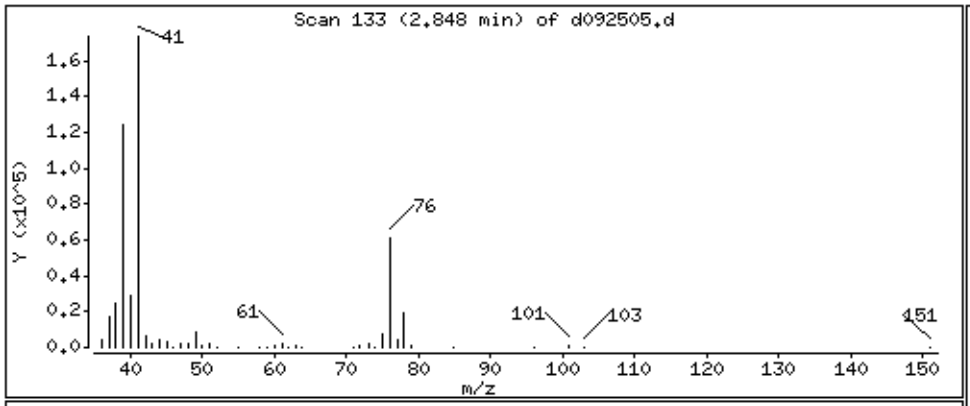
Operator: ccy

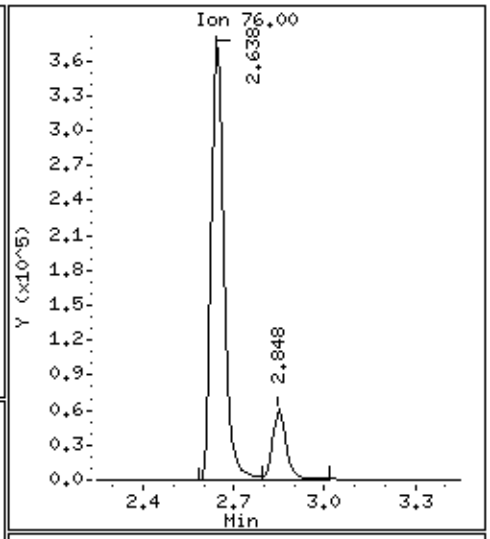
Column phase: RTx-624

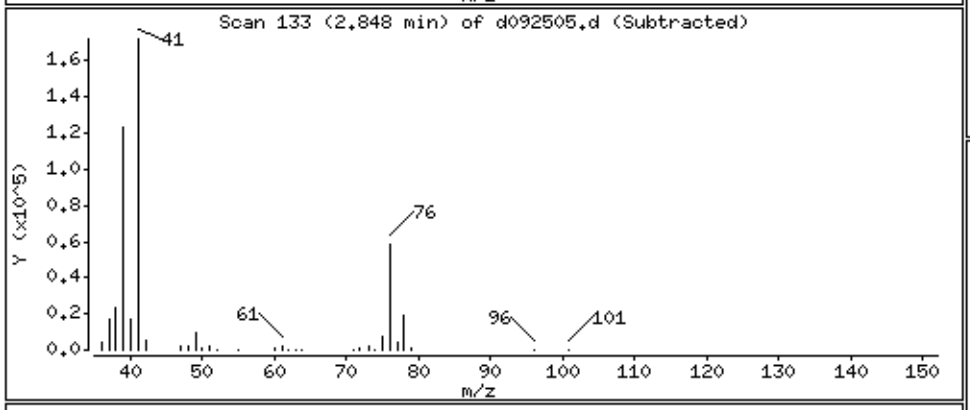
Column diameter: 0.53

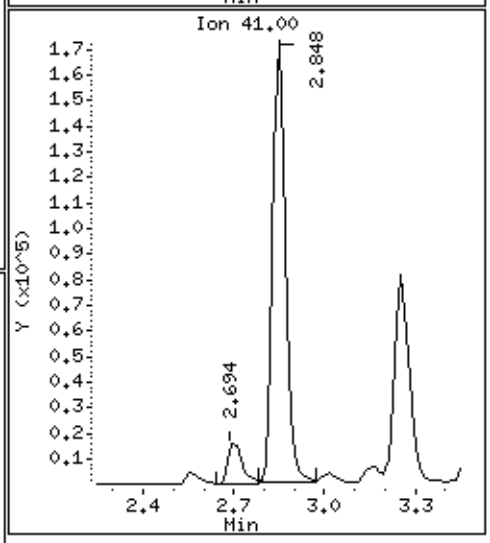
44 3-Chloropropene

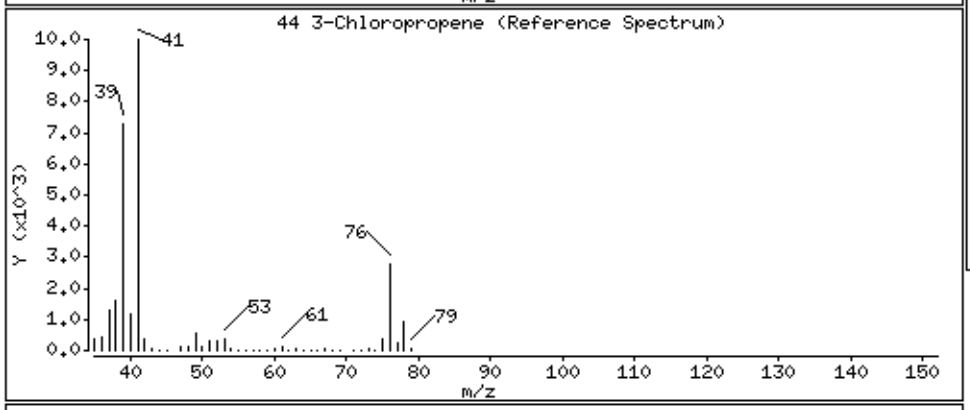
Concentration: 51.402 PPBV

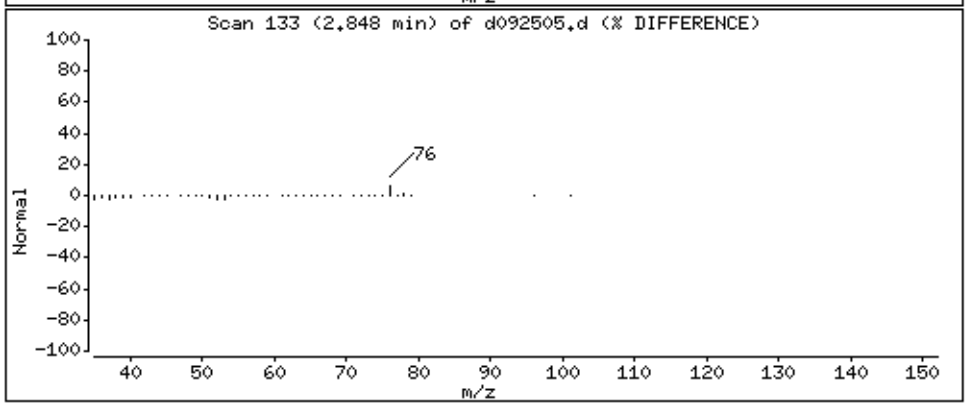












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

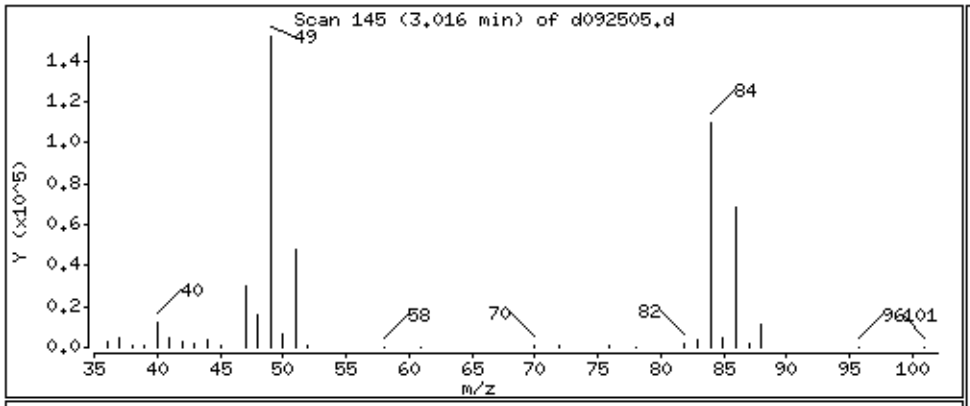
Operator: ccy

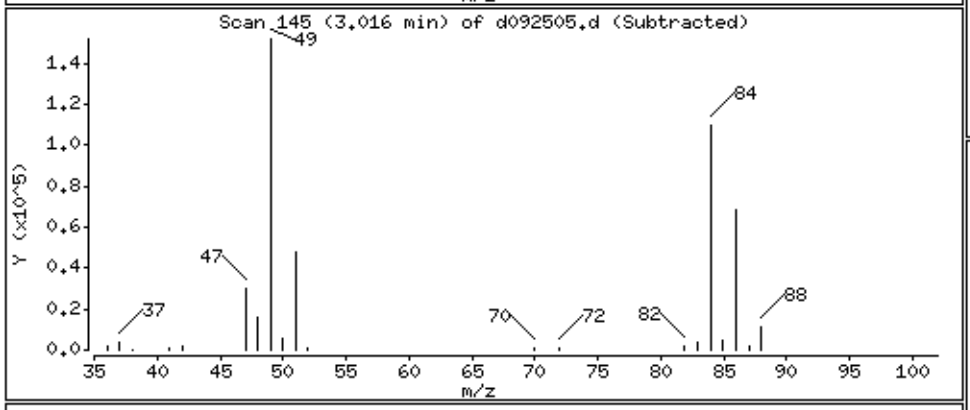
Column phase: RTx-624

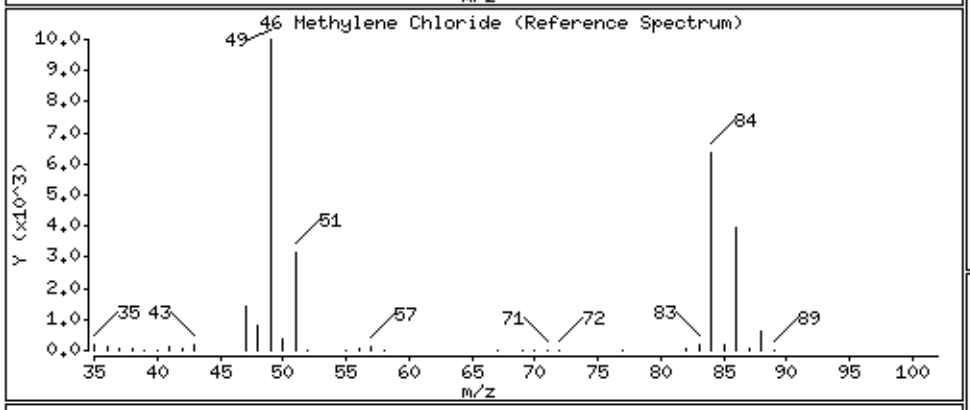
Column diameter: 0.53

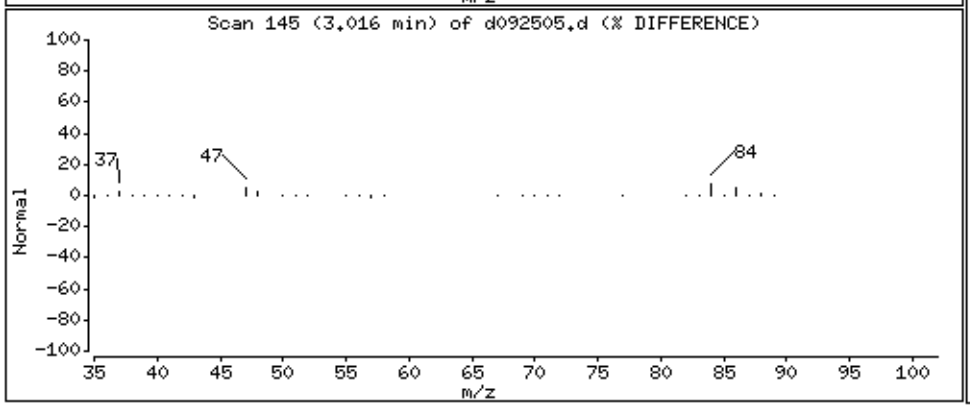
46 Methylene Chloride

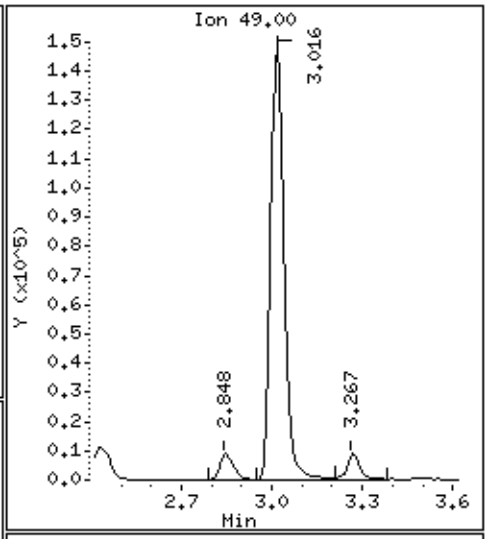
Concentration: 45.449 PPBV

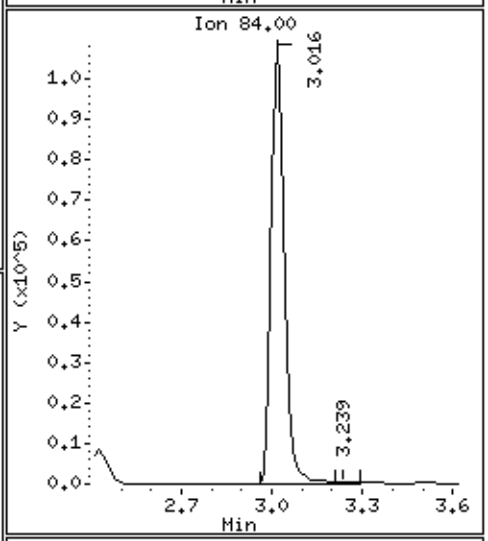


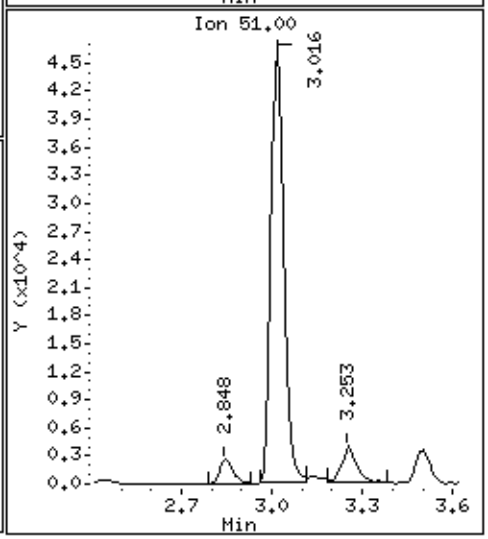












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

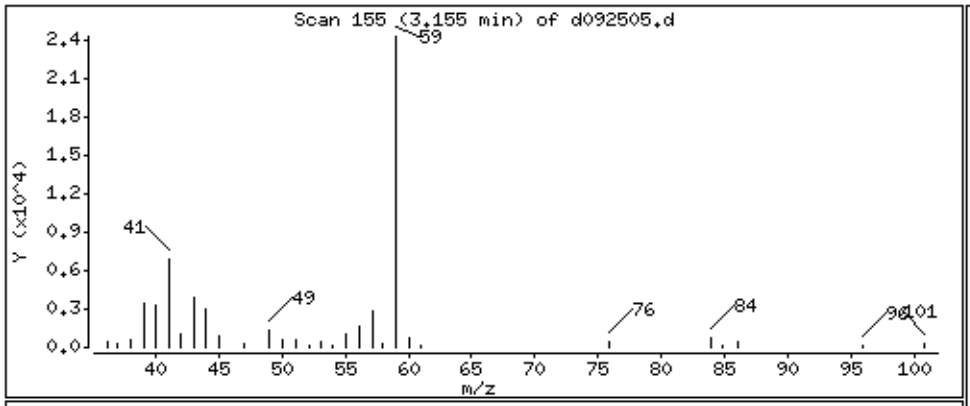
Operator: ccy

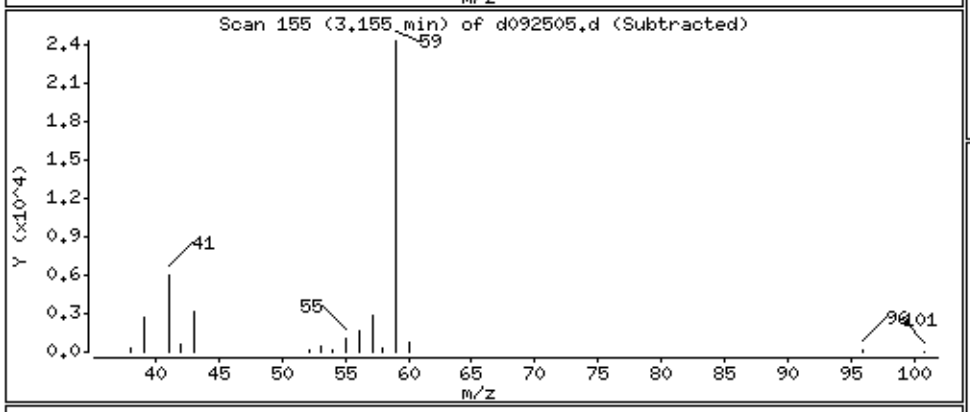
Column phase: RTx-624

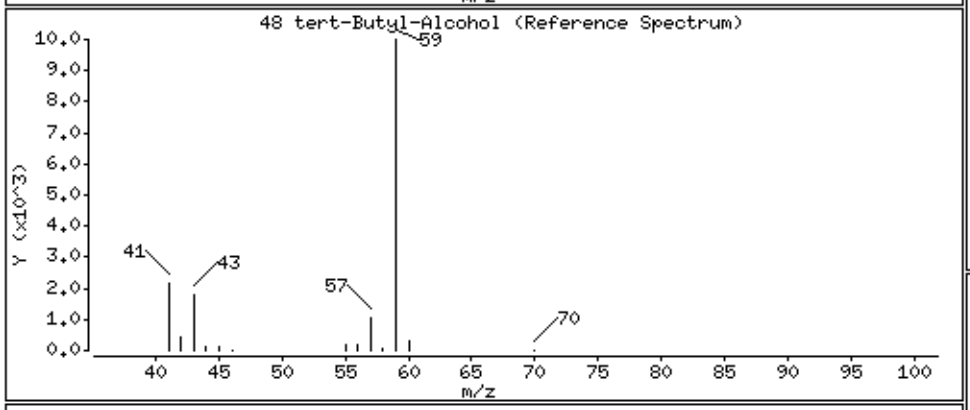
Column diameter: 0.53

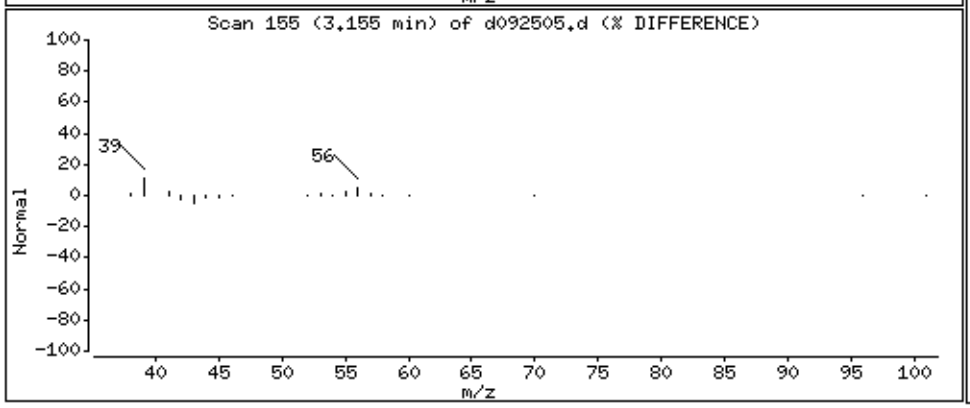
48 tert-Butyl-Alcohol

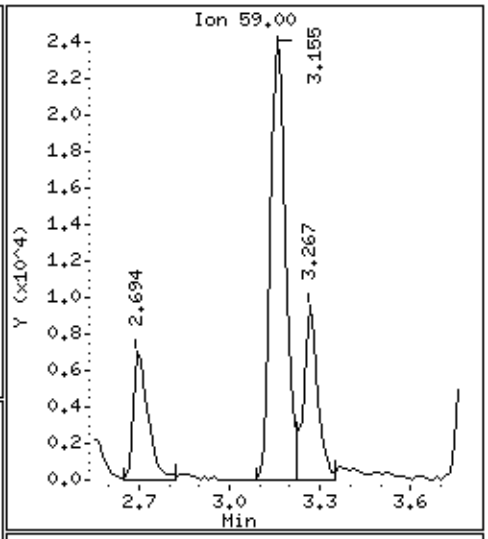
Concentration: 4.863 PPBV

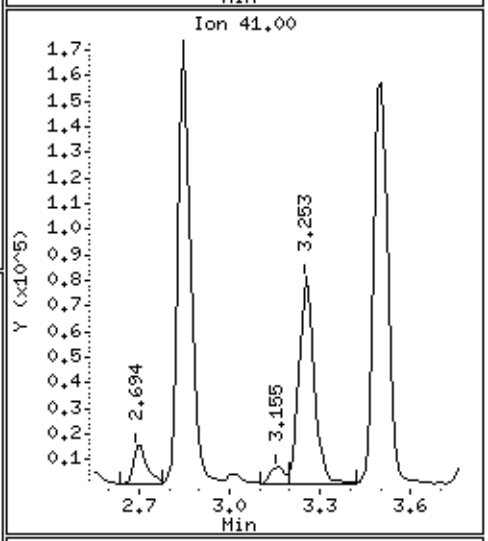


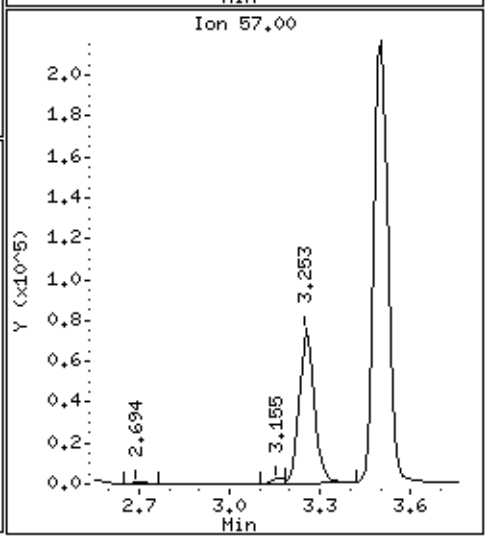












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

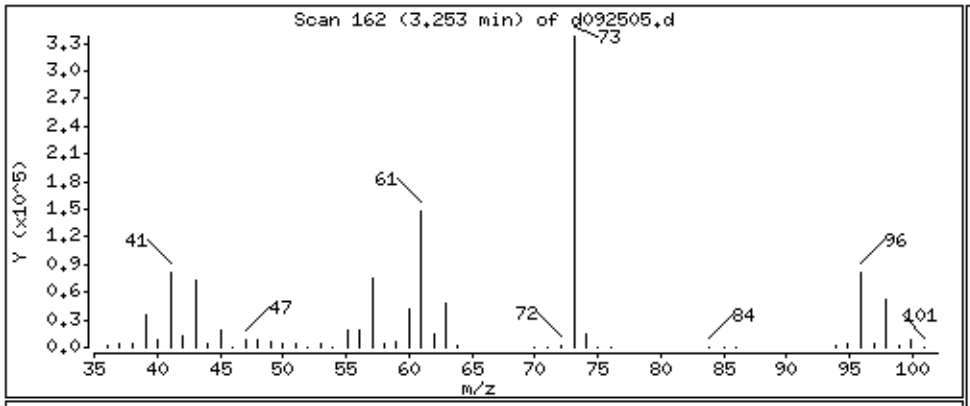
Operator: ccy

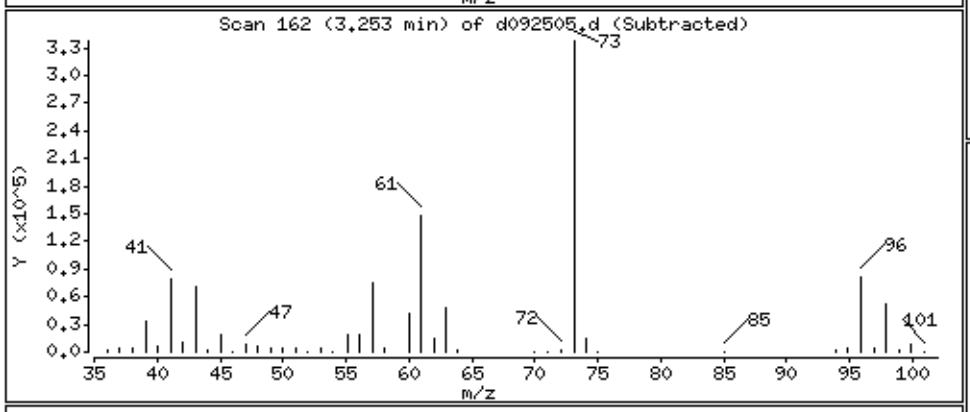
Column phase: RTx-624

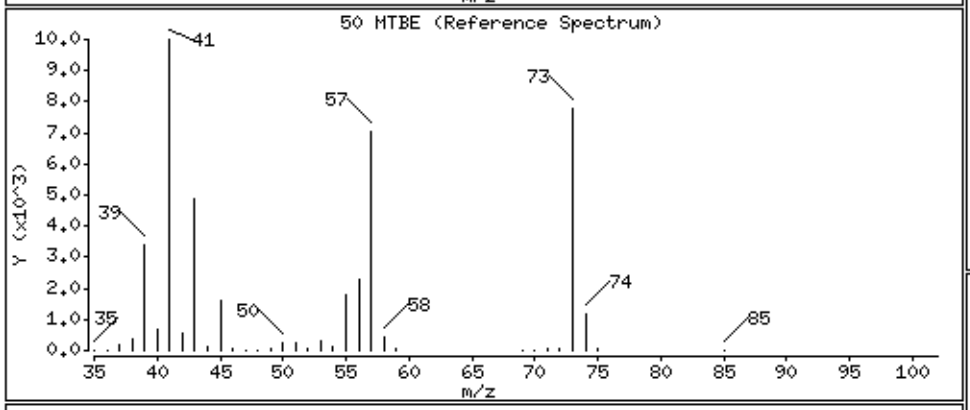
Column diameter: 0.53

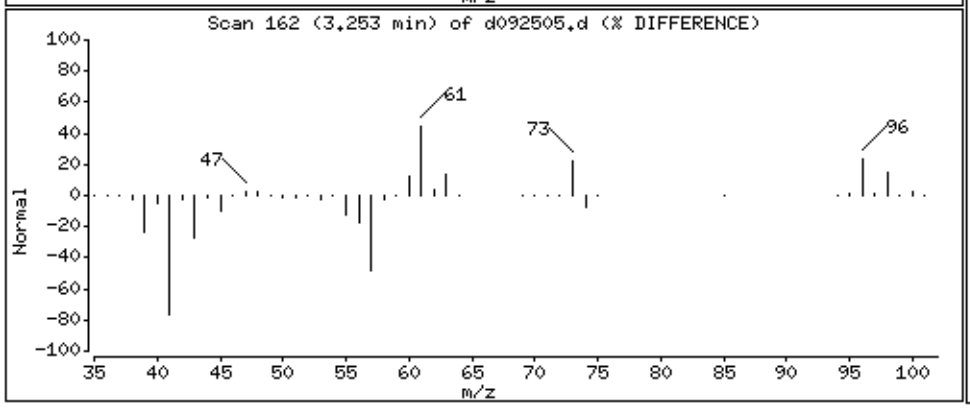
50 MTBE

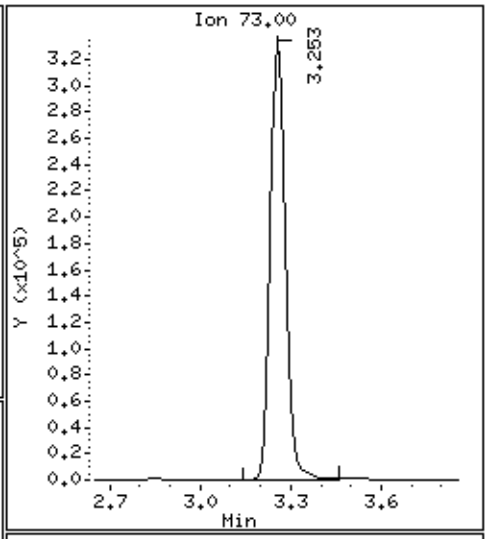
Concentration: 49.423 PPBV

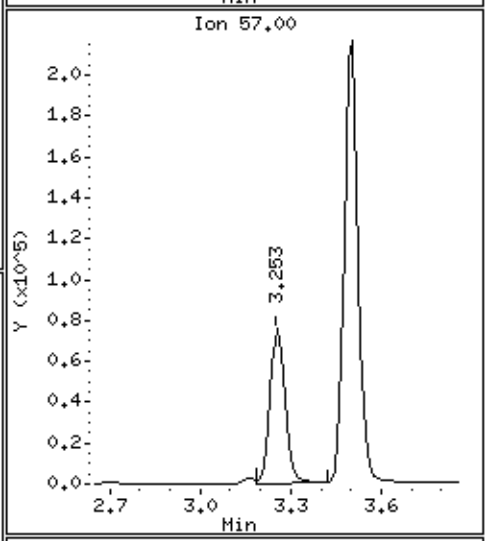


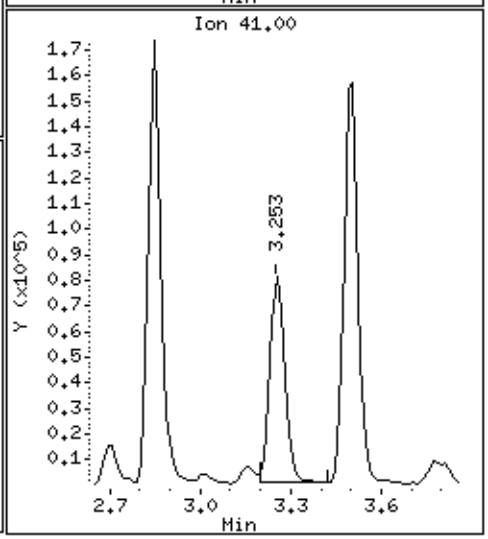












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

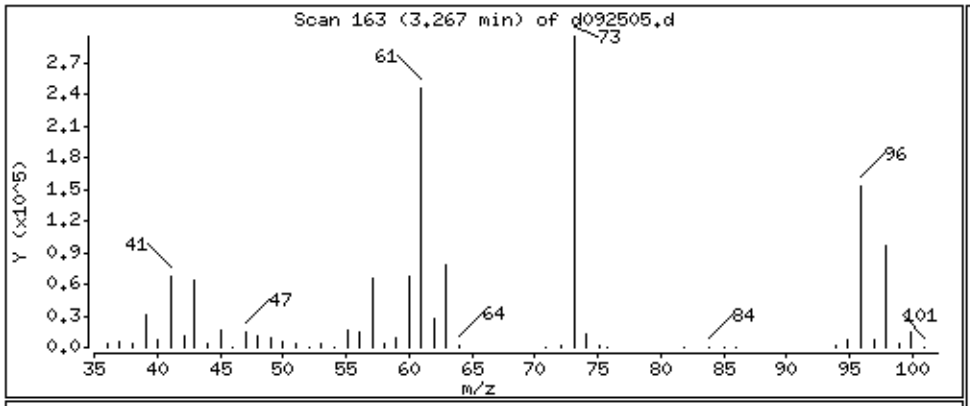
Operator: ccy

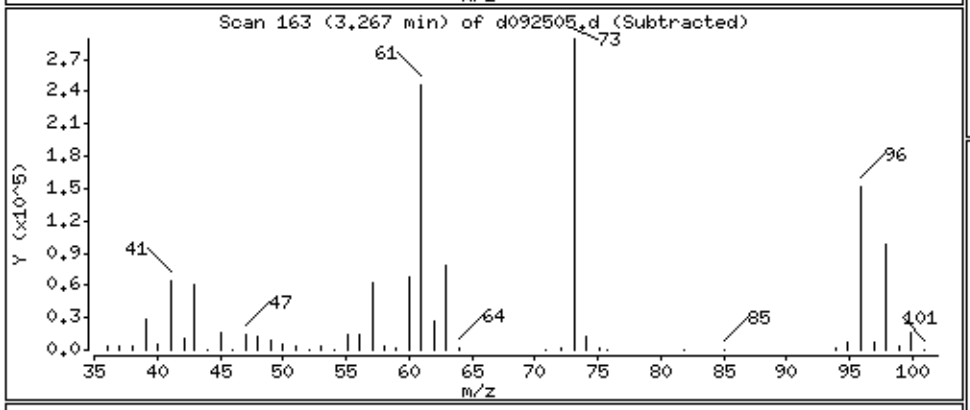
Column phase: RTx-624

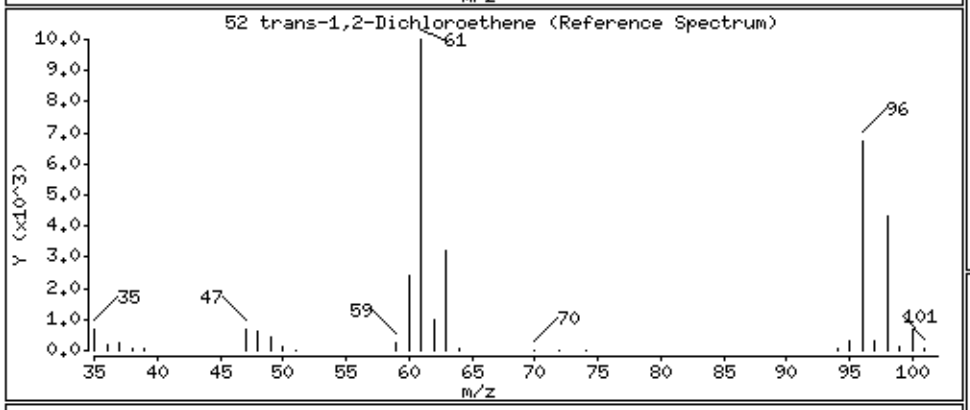
Column diameter: 0.53

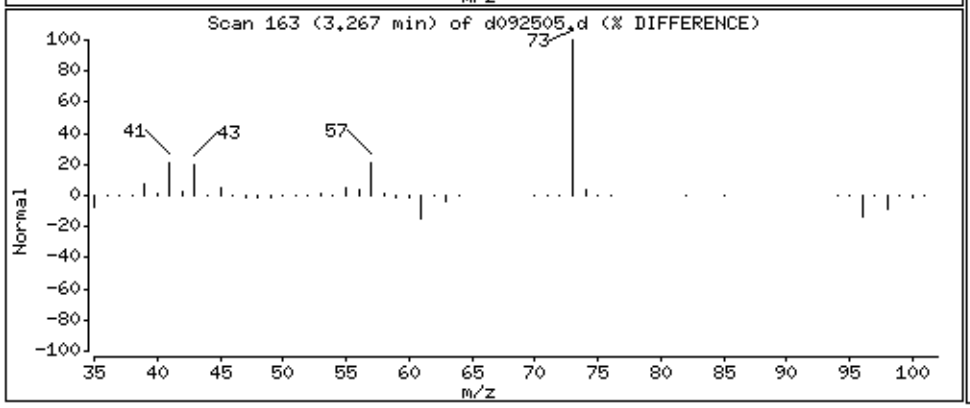
52 trans-1,2-Dichloroethene

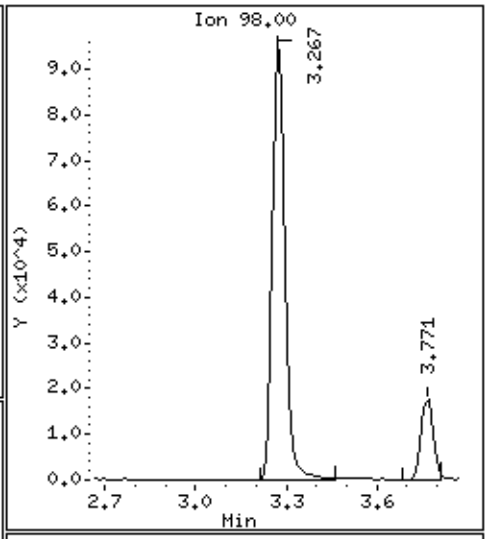
Concentration: 51.593 PPBV

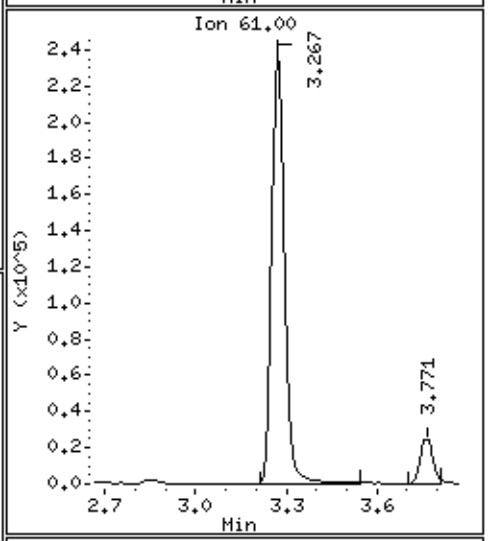


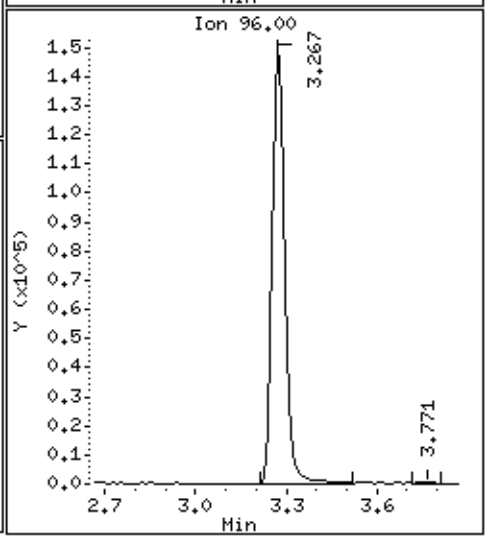












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

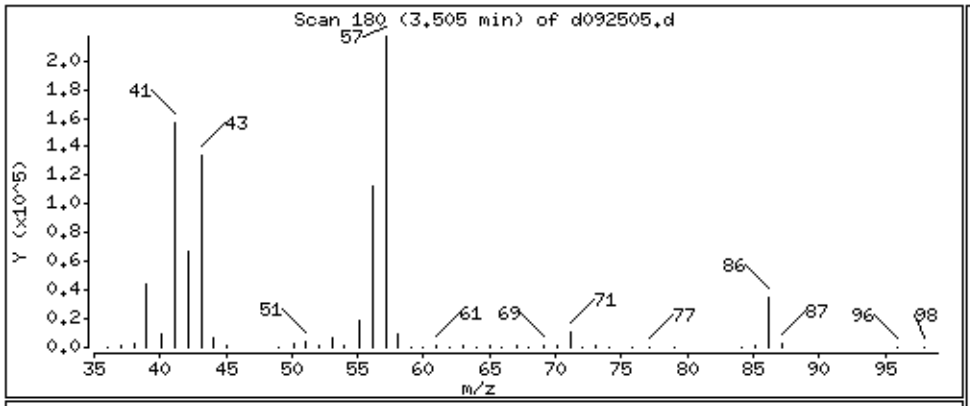
Operator: ccy

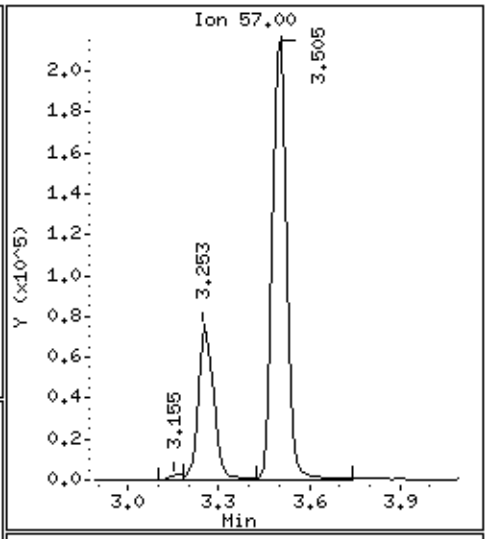
Column phase: RTx-624

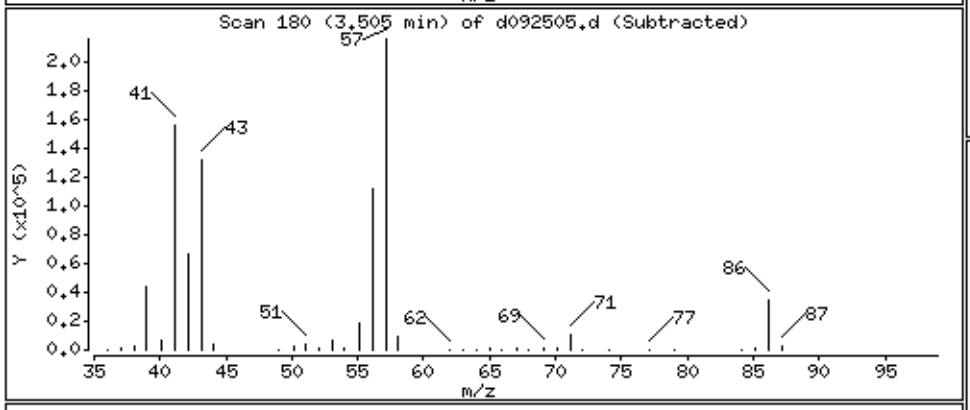
Column diameter: 0.53

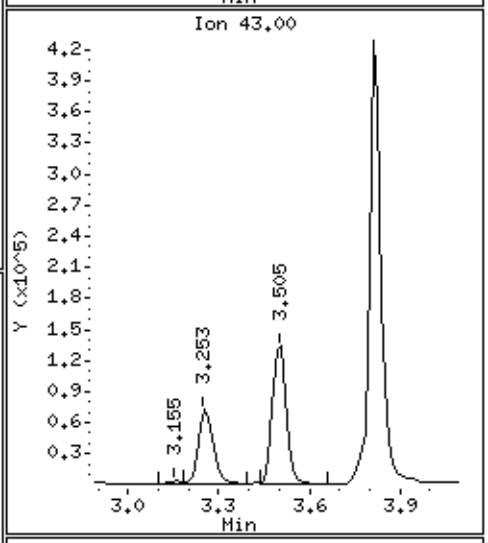
58 Hexane

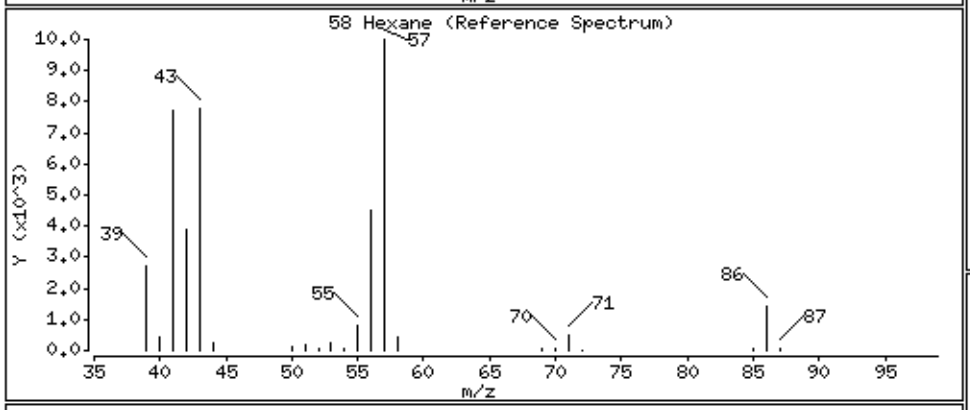
Concentration: 48.462 PPBV

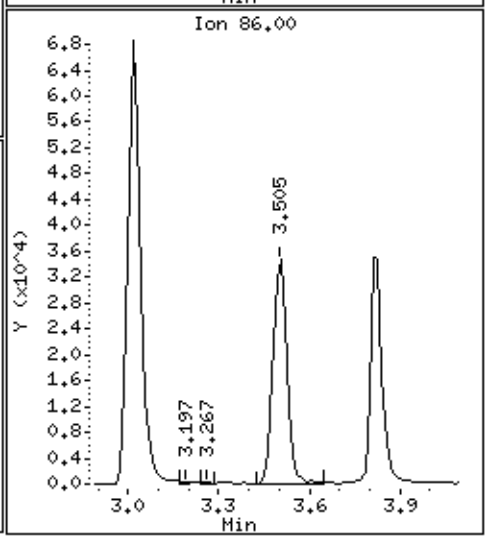


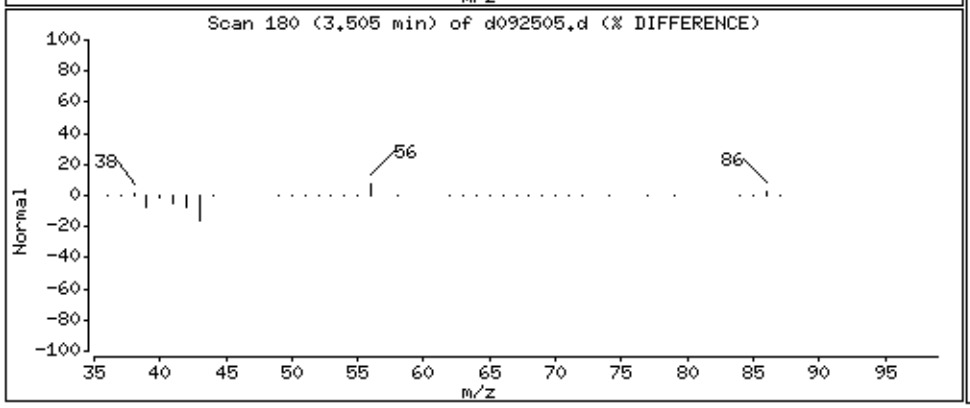












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

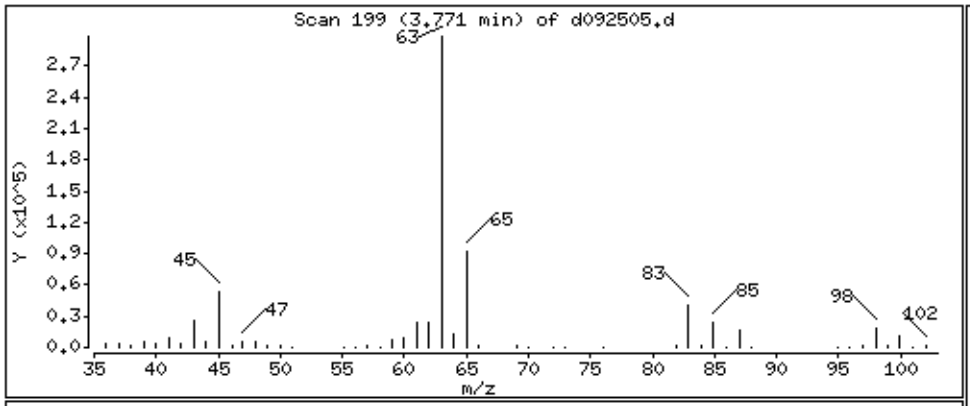
Operator: ccy

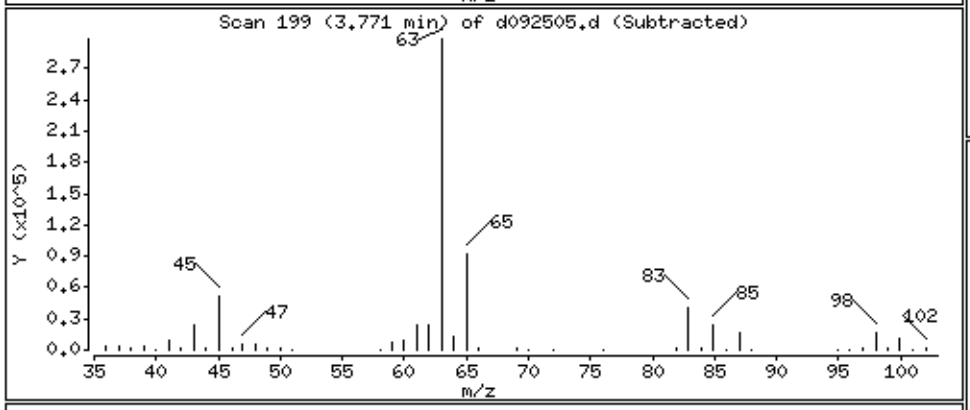
Column phase: RTx-624

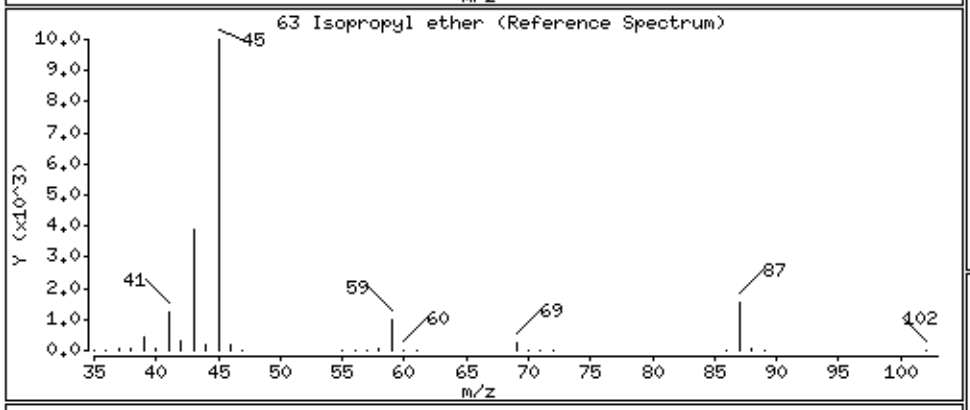
Column diameter: 0.53

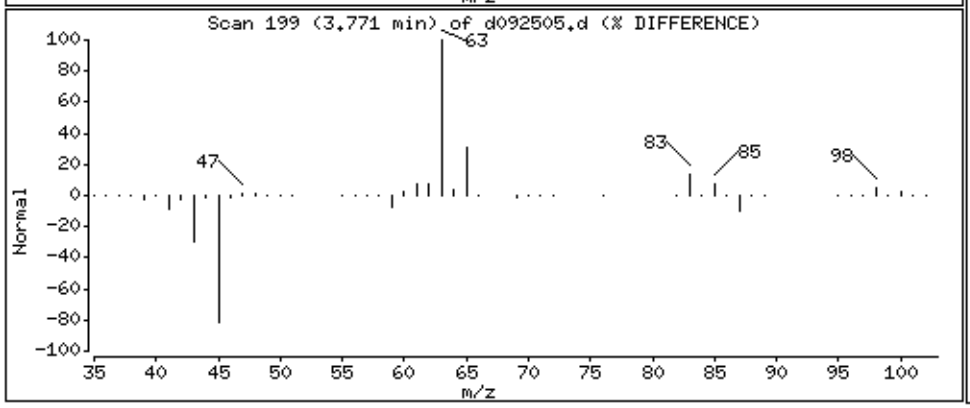
63 Isopropyl ether

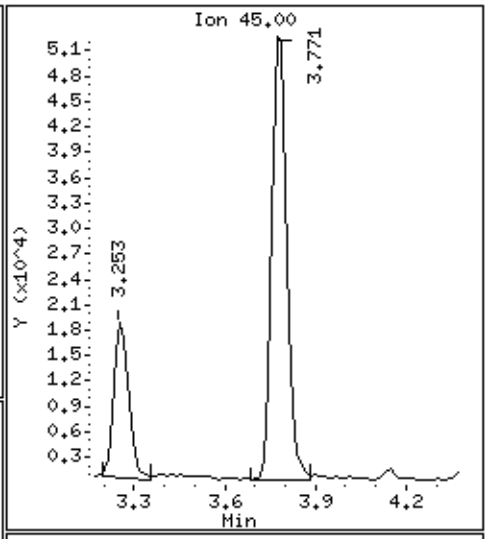
Concentration: 4.998 PPBV

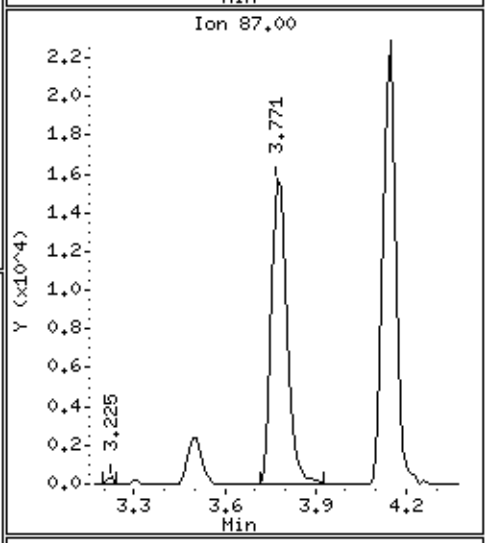


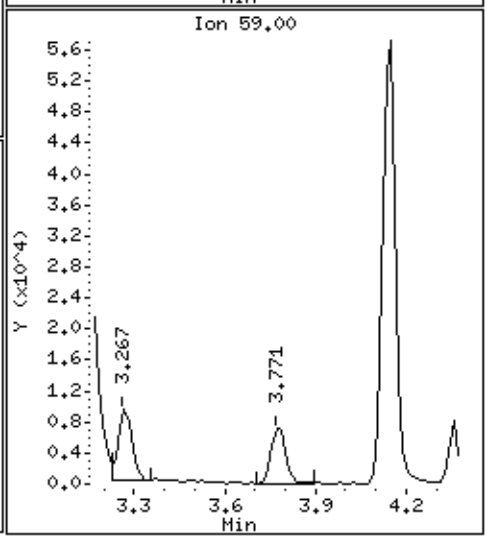












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

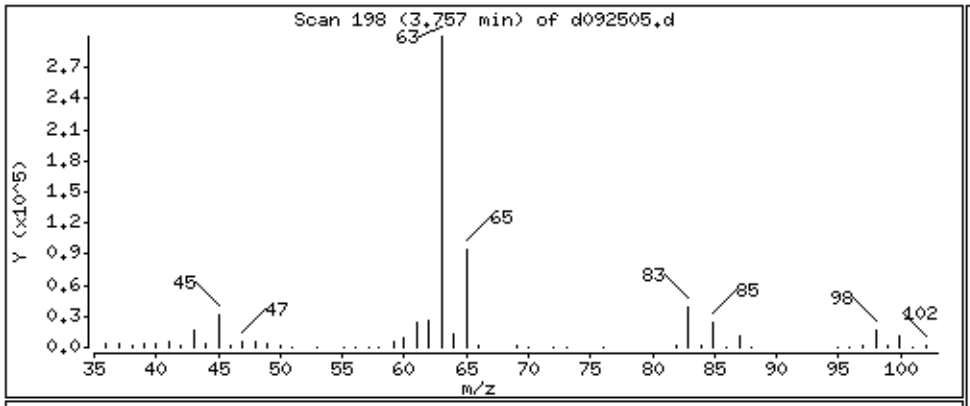
Operator: ccy

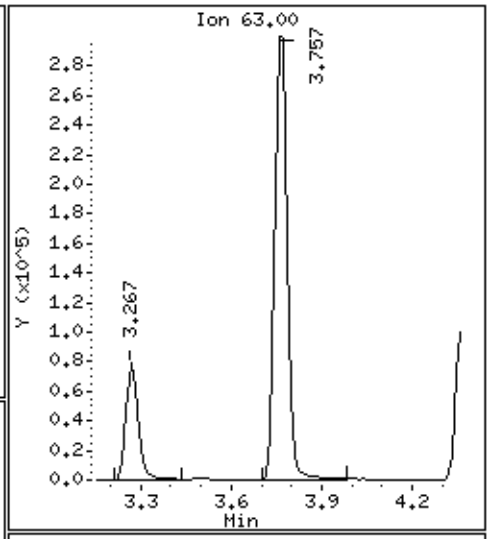
Column phase: RTx-624

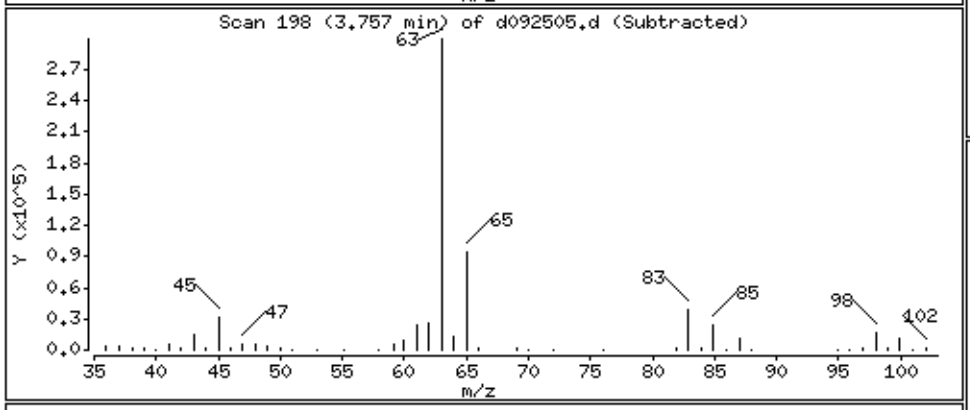
Column diameter: 0.53

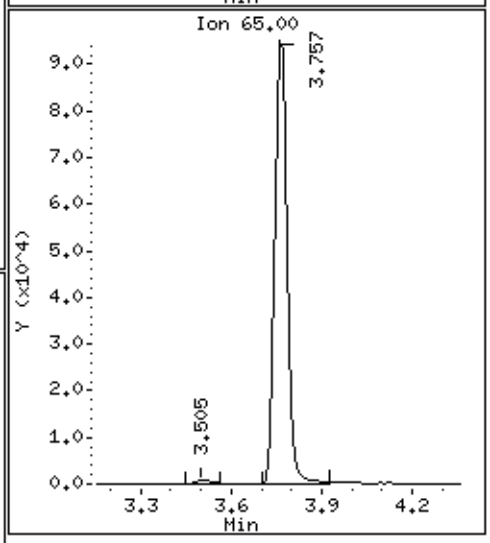
64 1,1-Dichloroethane

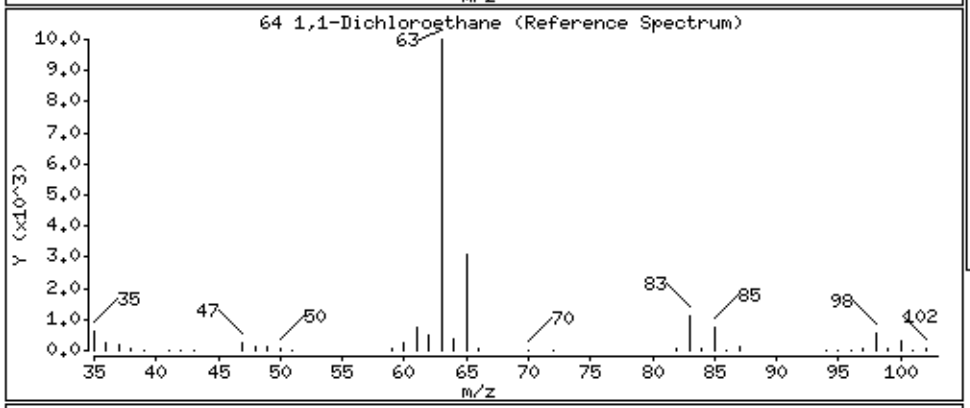
Concentration: 48.419 PPBV

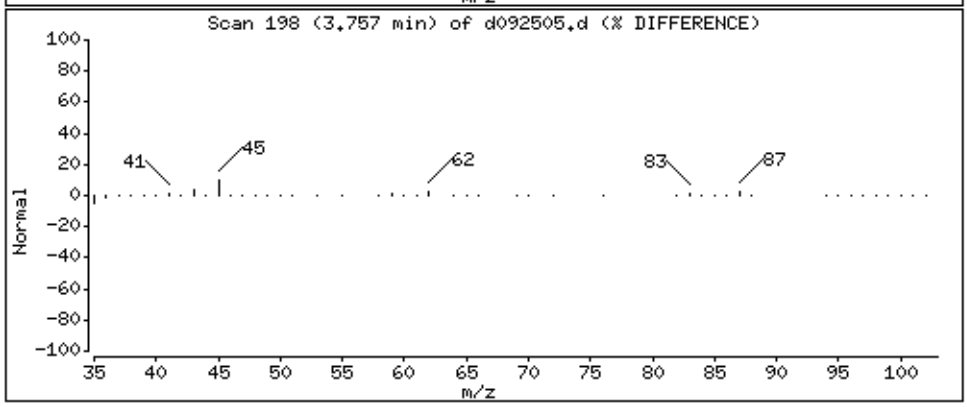












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

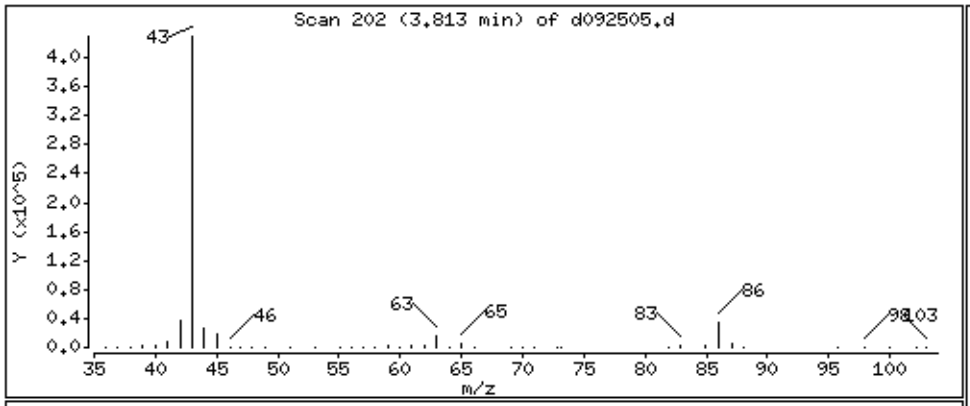
Operator: ccy

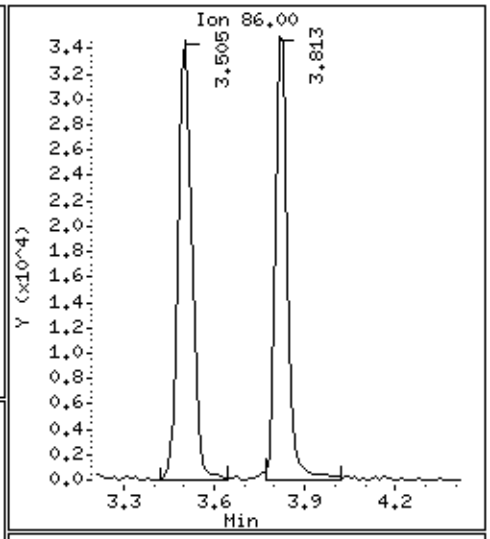
Column phase: RTx-624

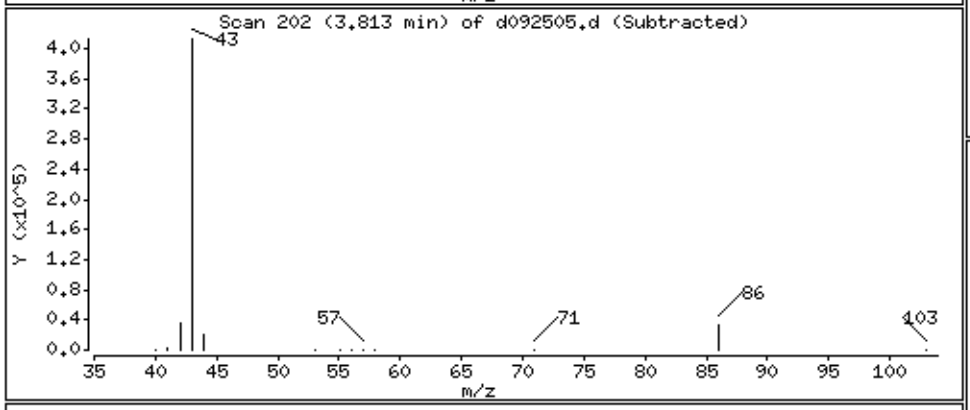
Column diameter: 0.53

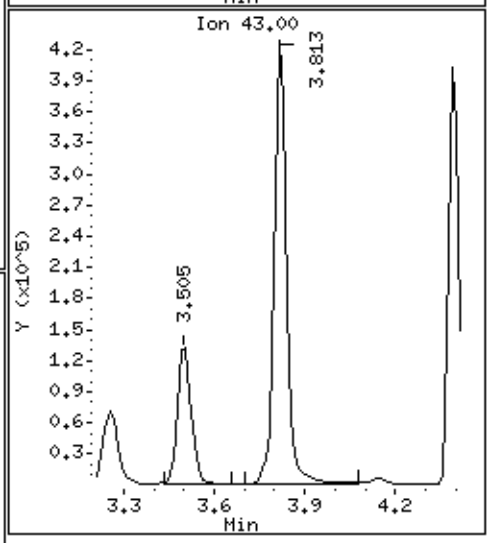
65 Vinyl Acetate

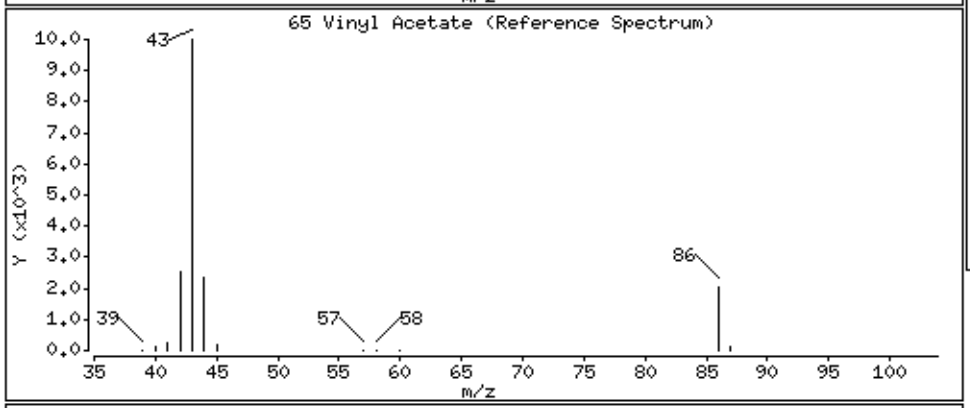
Concentration: 48.092 PPBV

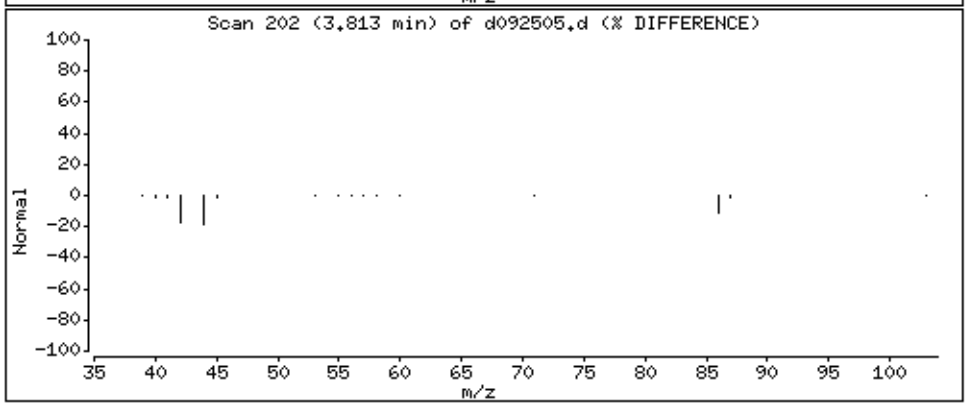












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

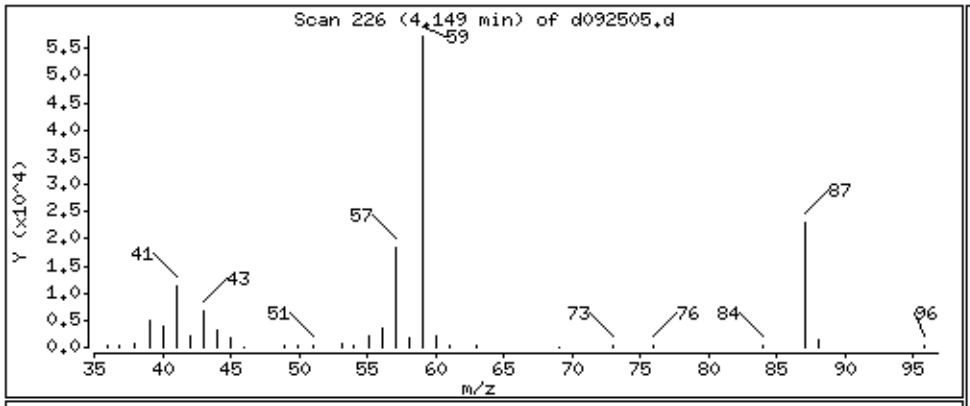
Operator: ccy

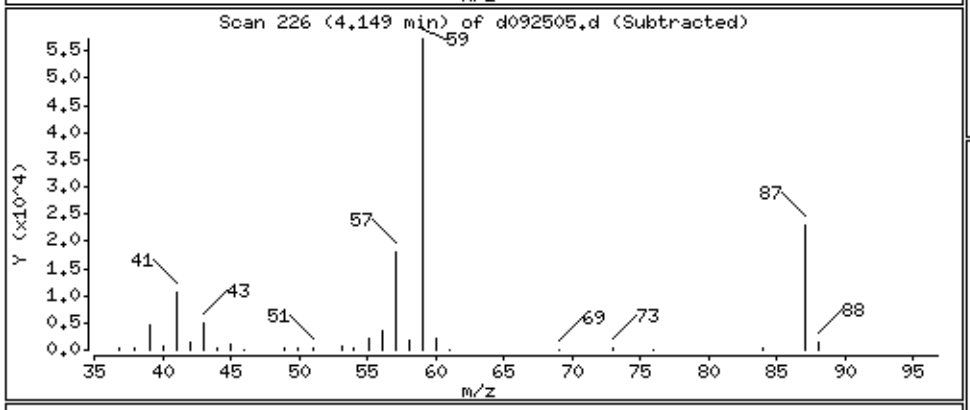
Column phase: RTx-624

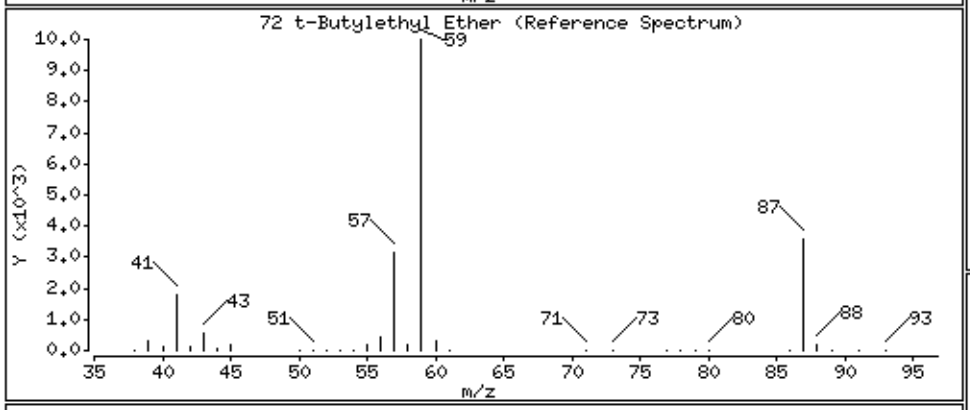
Column diameter: 0.53

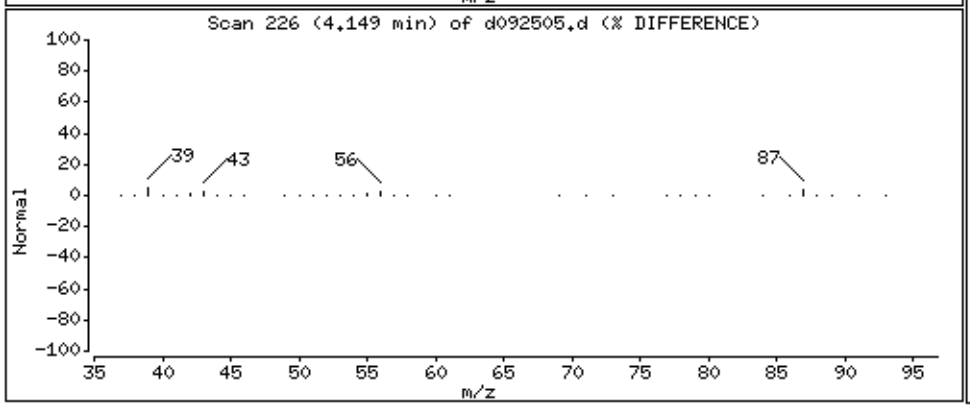
72 t-Butylethyl Ether

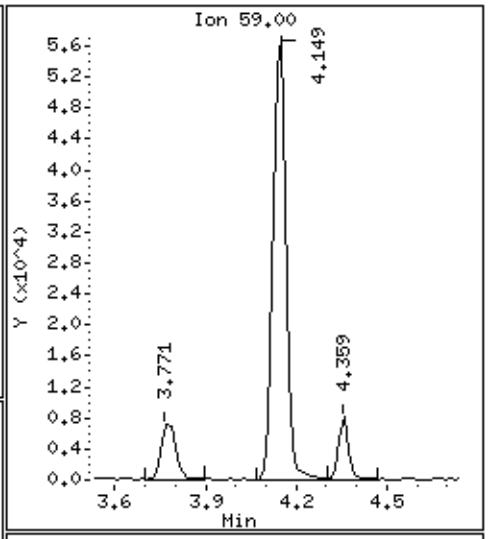
Concentration: 5.308 PPBV

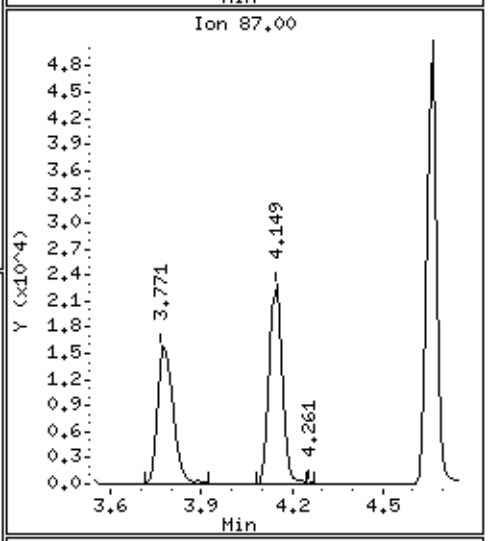


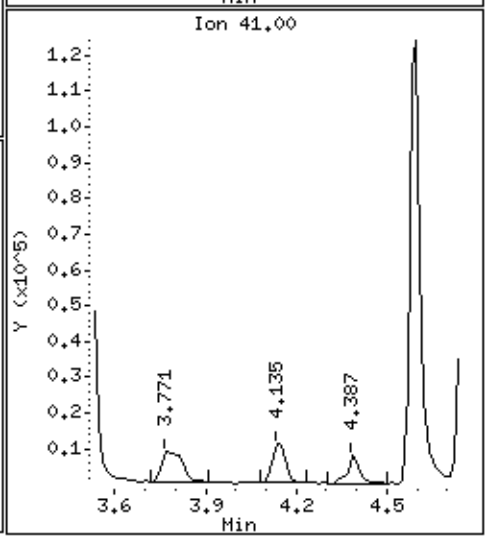












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

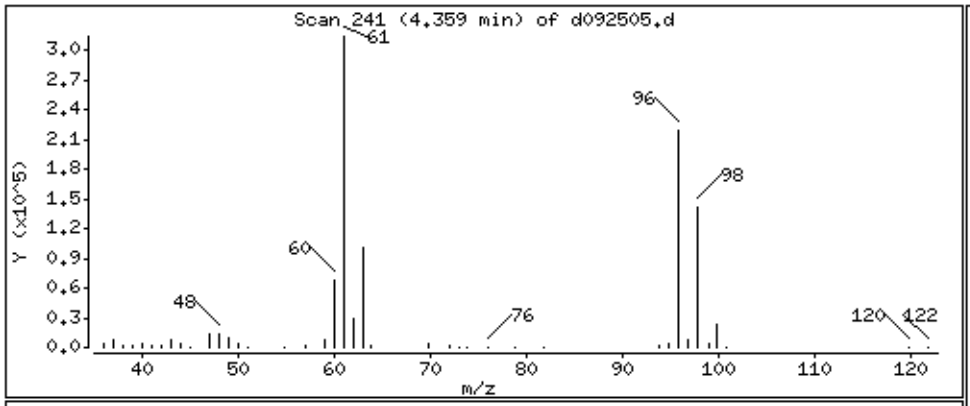
Operator: ccy

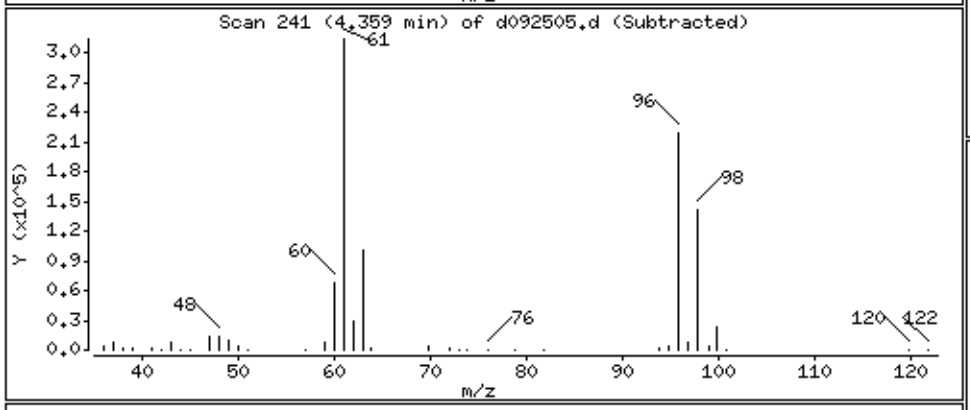
Column phase: RTx-624

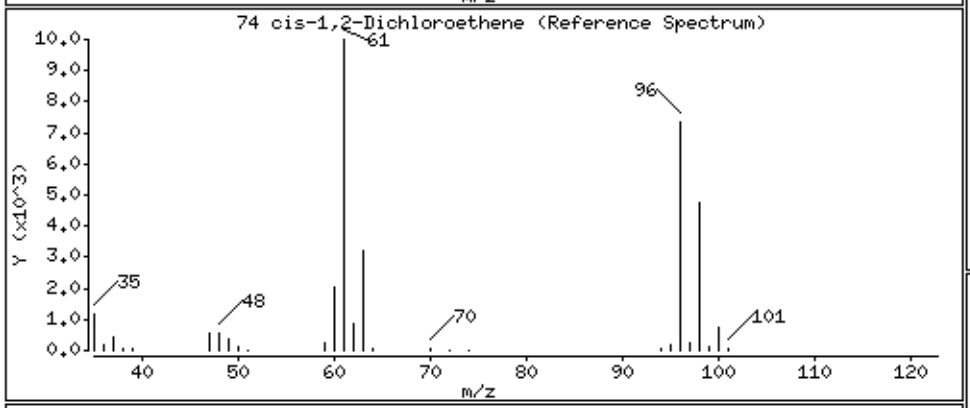
Column diameter: 0.53

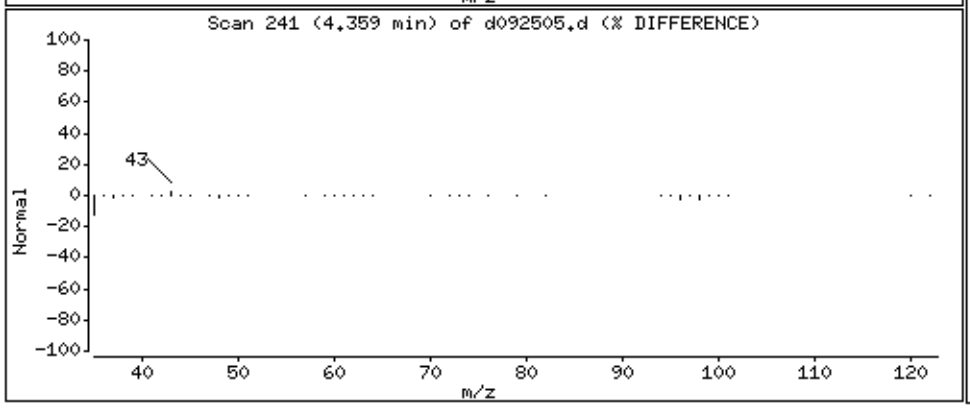
74 cis-1,2-Dichloroethene

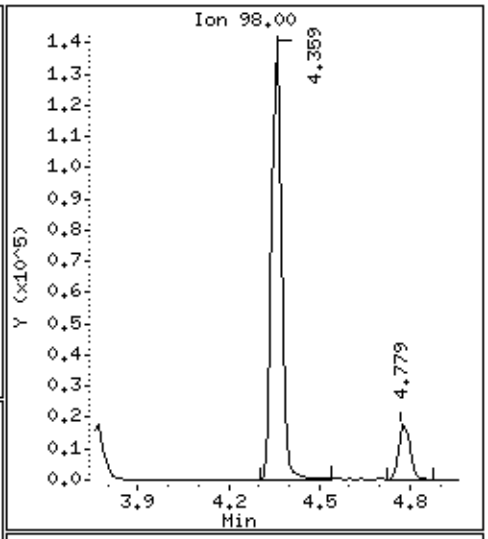
Concentration: 50.177 PPBV

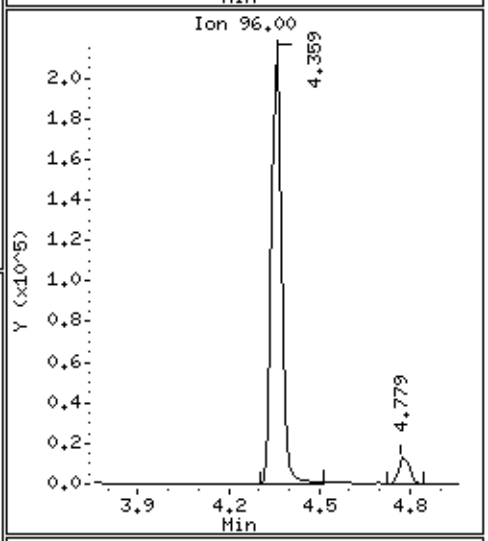


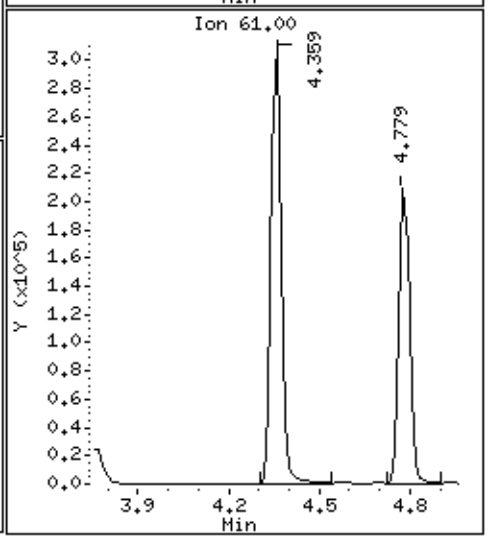












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

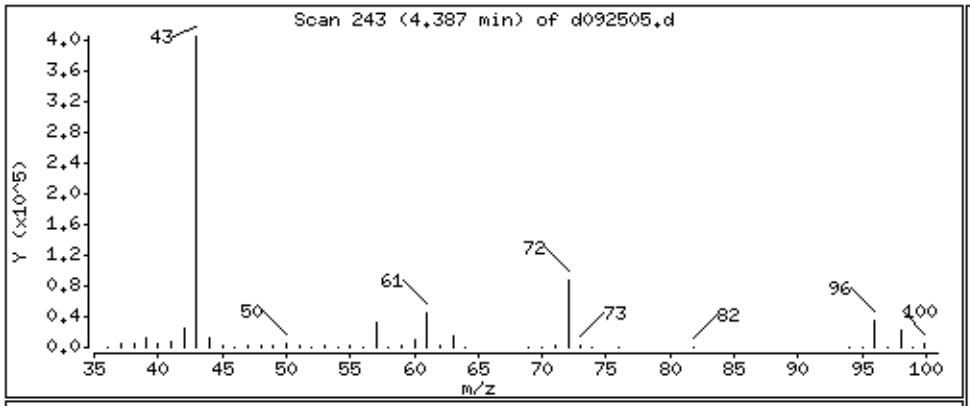
Operator: ccy

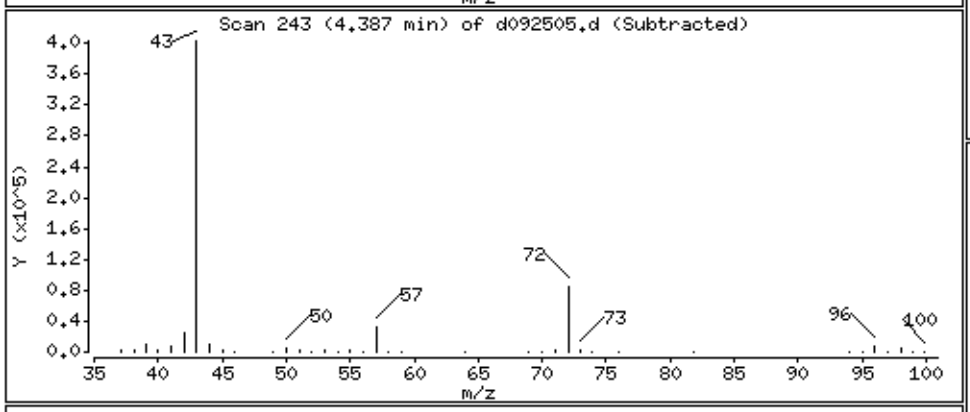
Column phase: RTx-624

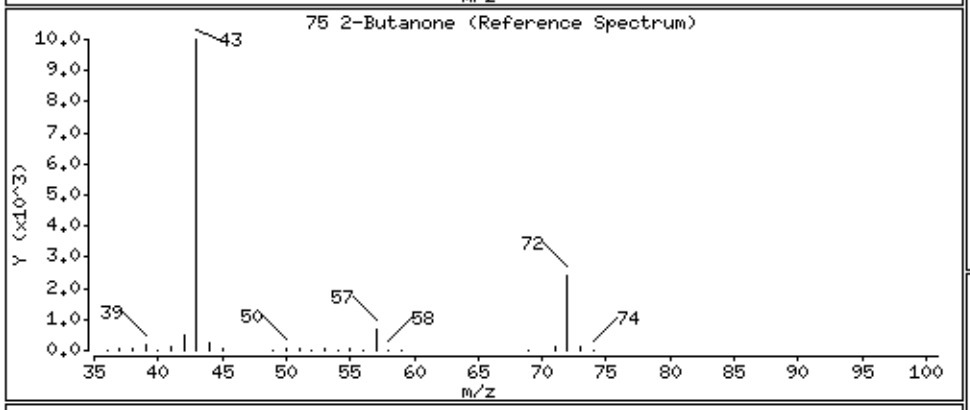
Column diameter: 0.53

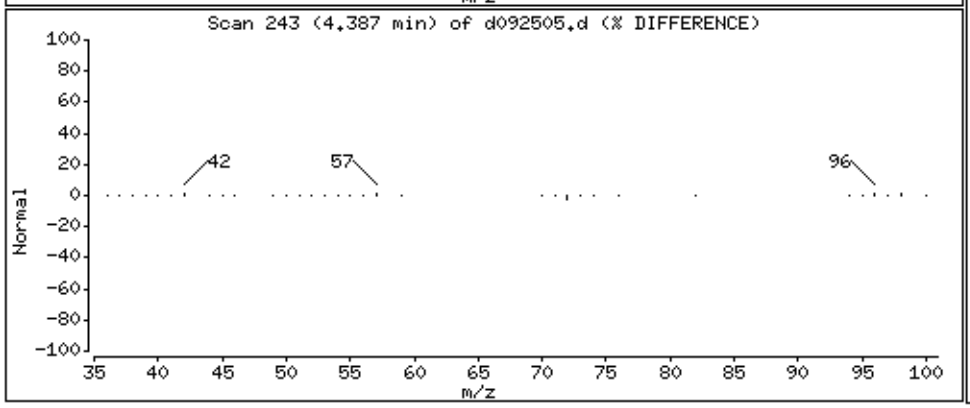
75 2-Butanone

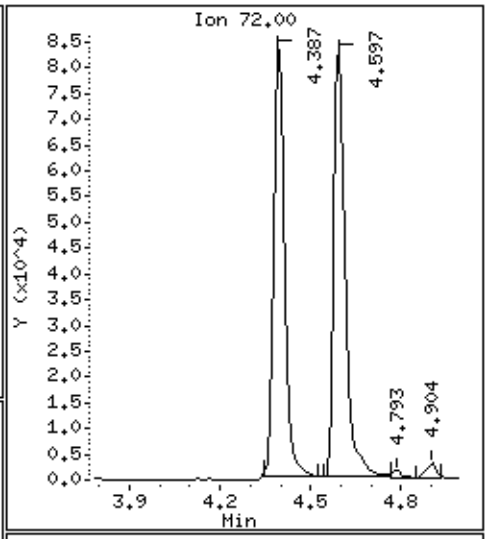
Concentration: 48.831 PPBV

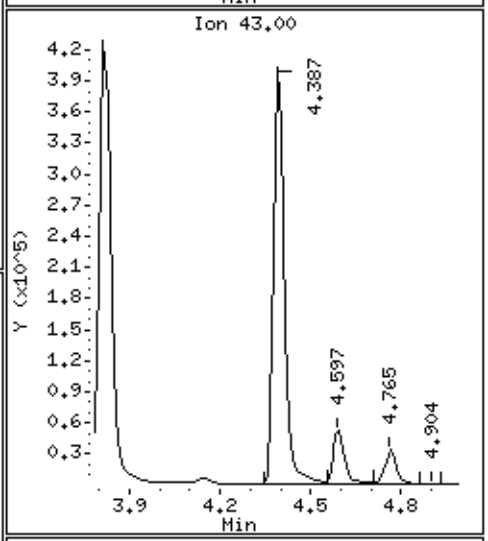


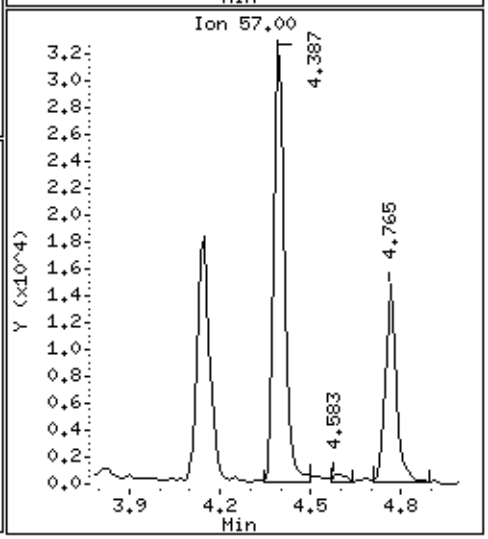












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

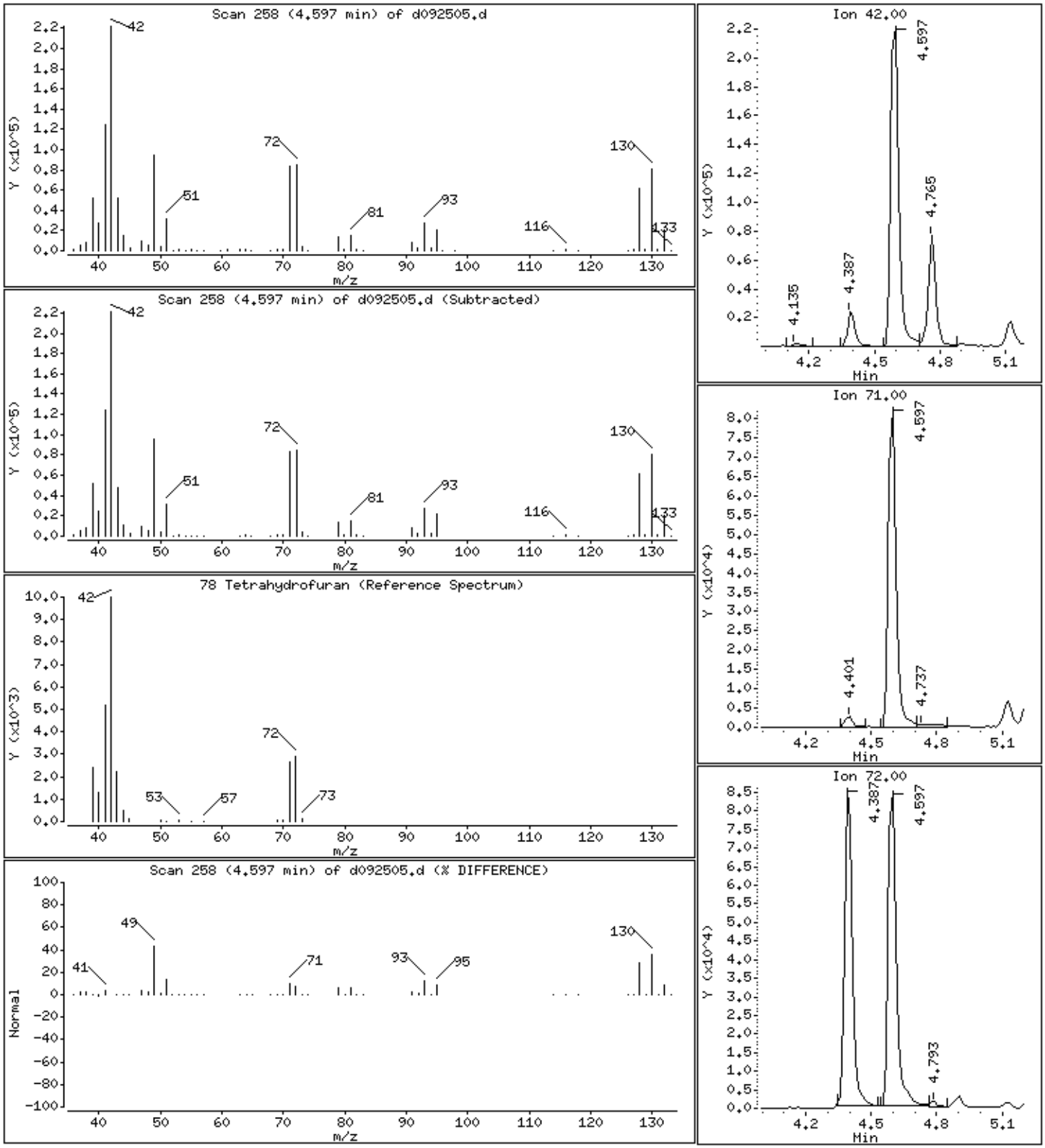
Operator: ccy

Column phase: RTx-624

Column diameter: 0.53

78 Tetrahydrofuran

Concentration: 50.369 PPBV



Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

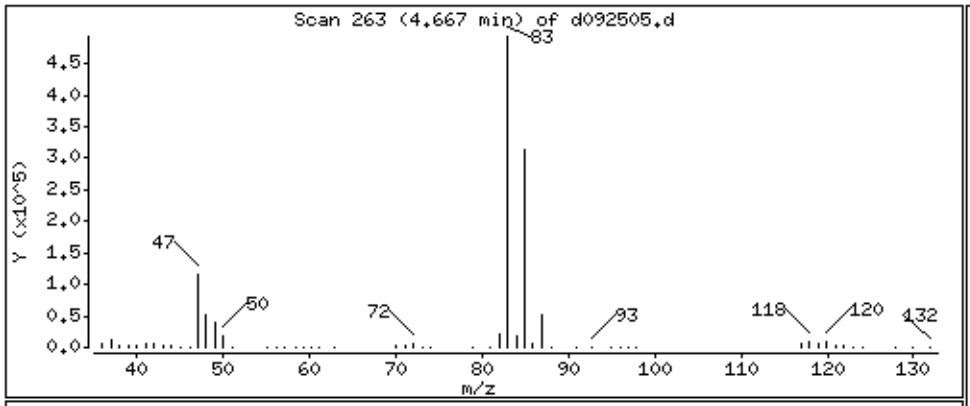
Operator: ccy

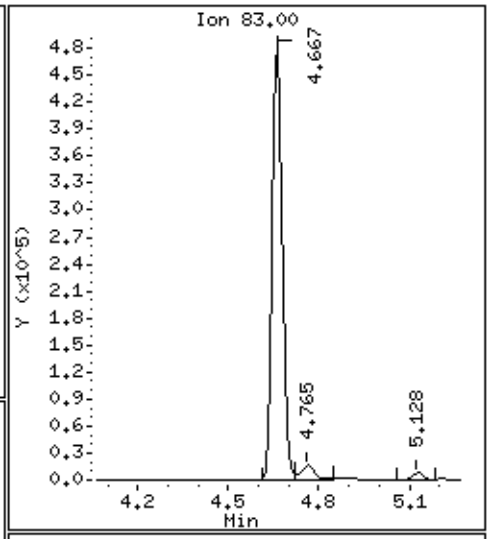
Column phase: RTx-624

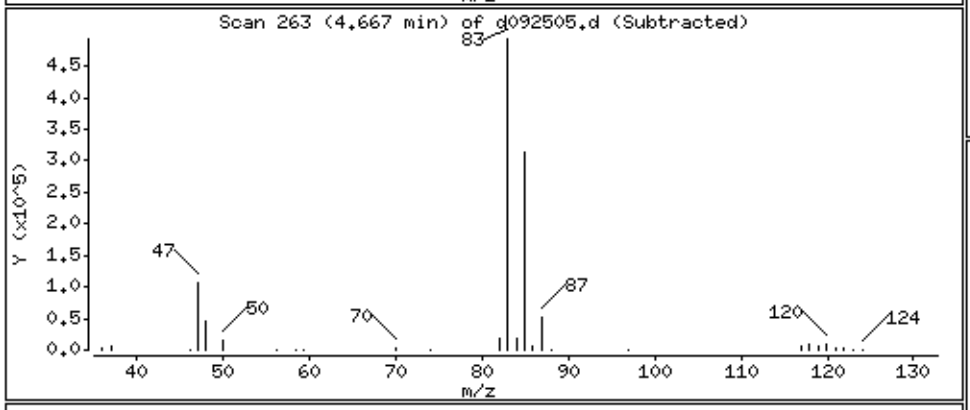
Column diameter: 0.53

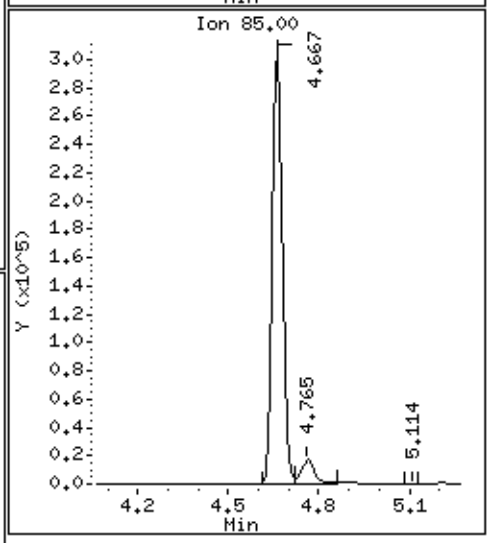
80 Chloroform

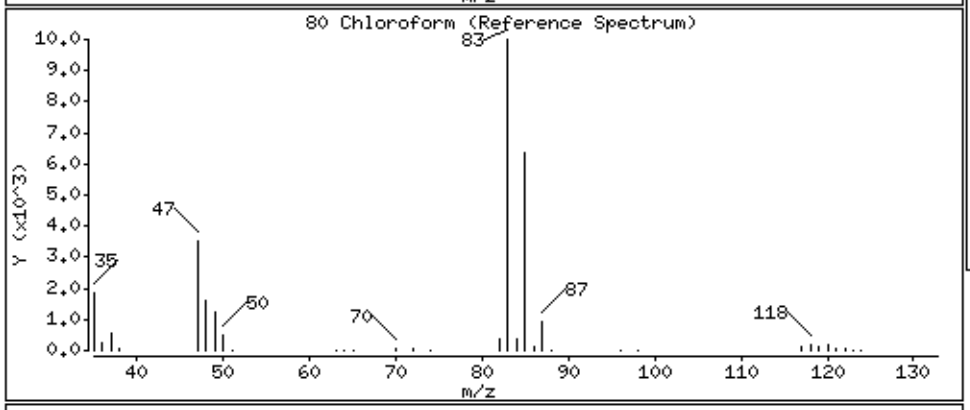
Concentration: 50.178 PPBV

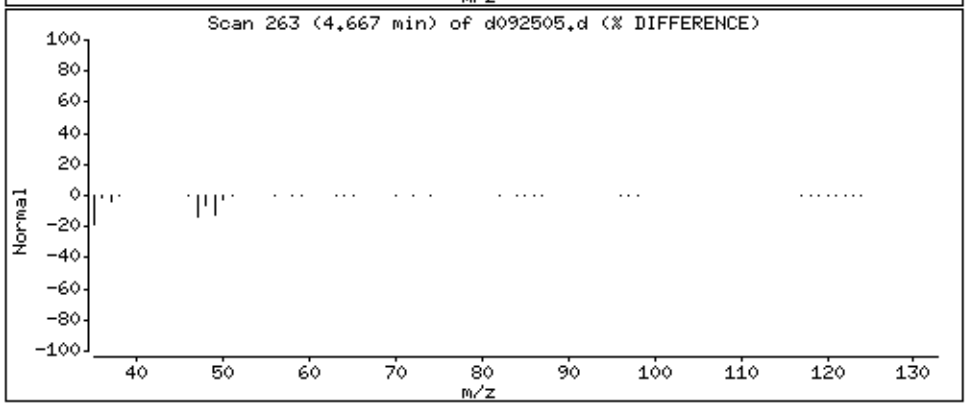












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

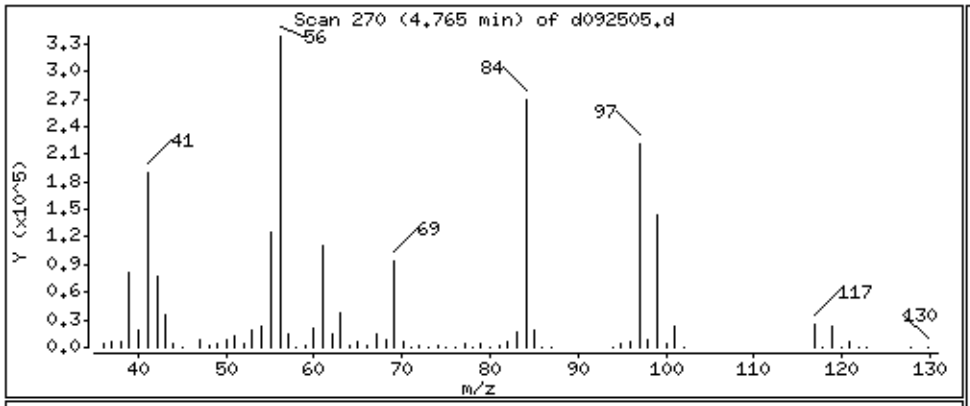
Operator: ccy

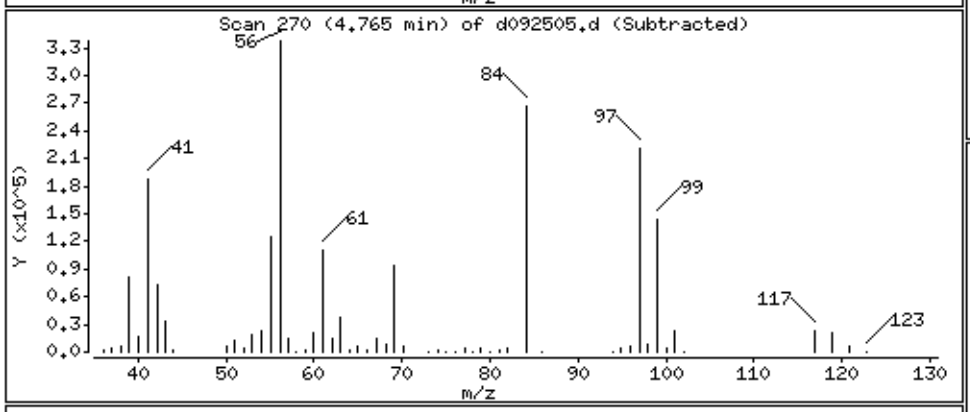
Column phase: RTx-624

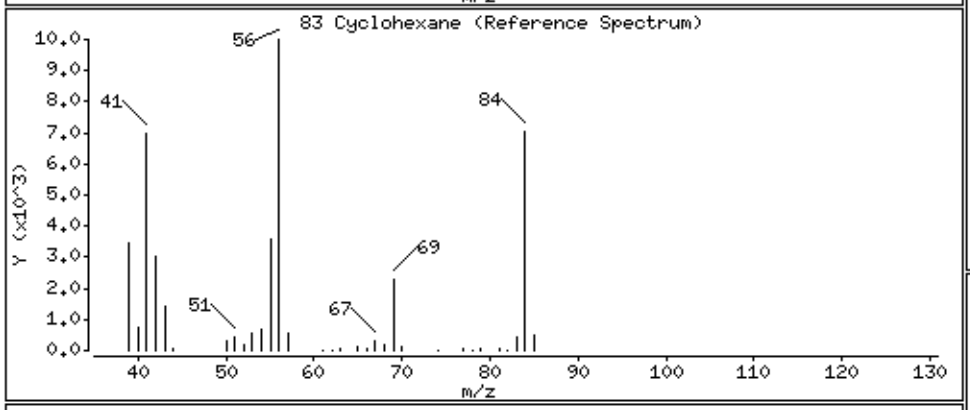
Column diameter: 0.53

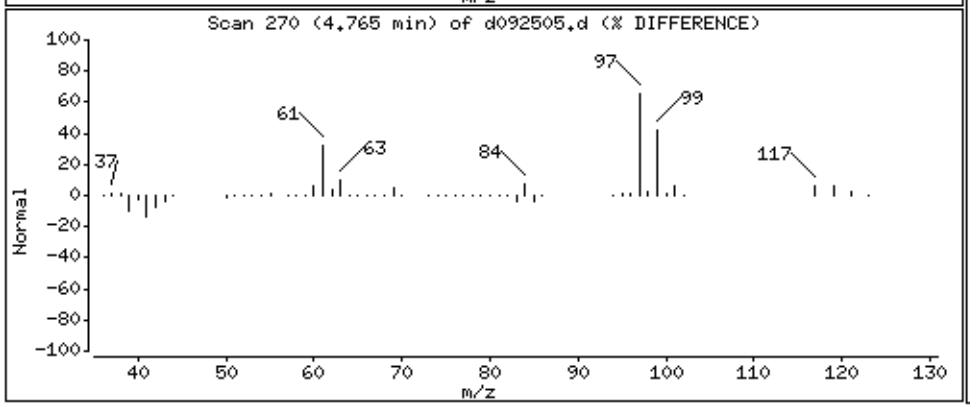
83 Cyclohexane

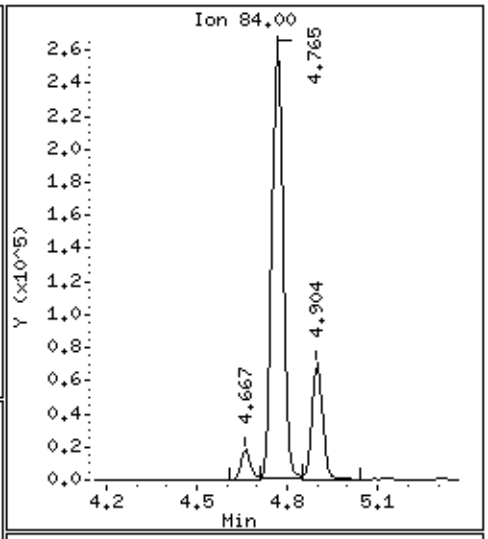
Concentration: 49.870 PPBV

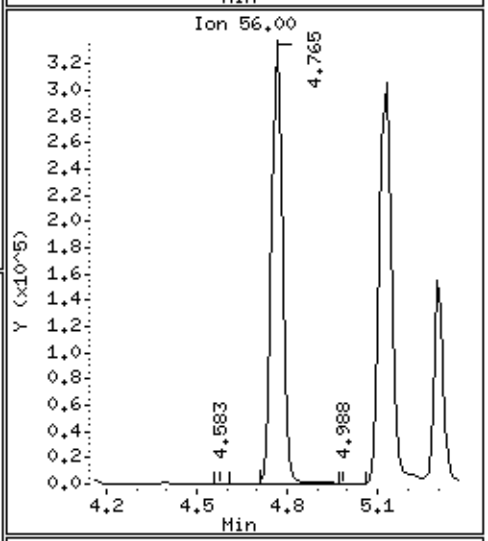


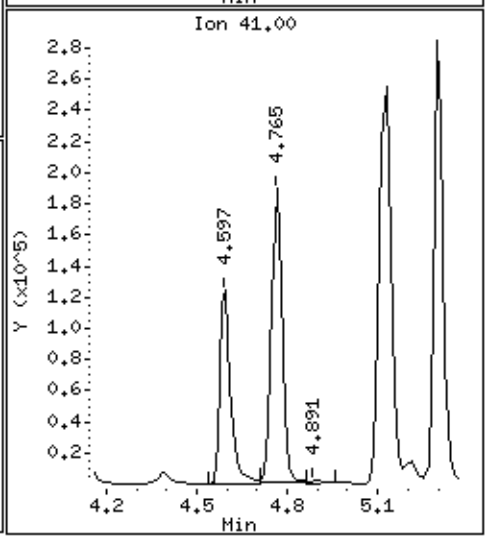












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

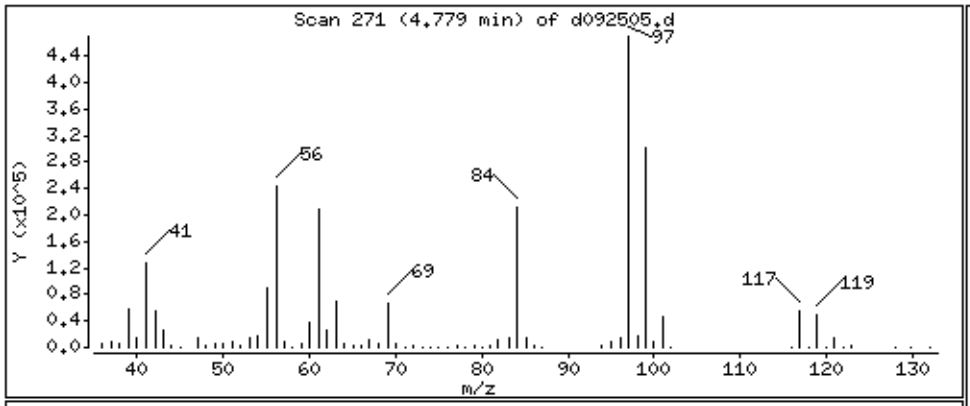
Operator: ccy

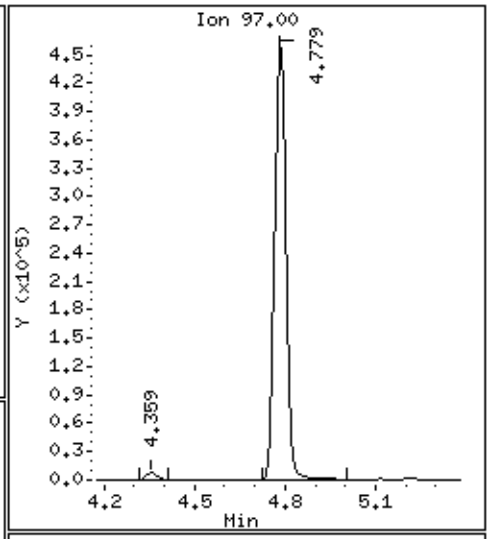
Column phase: RTx-624

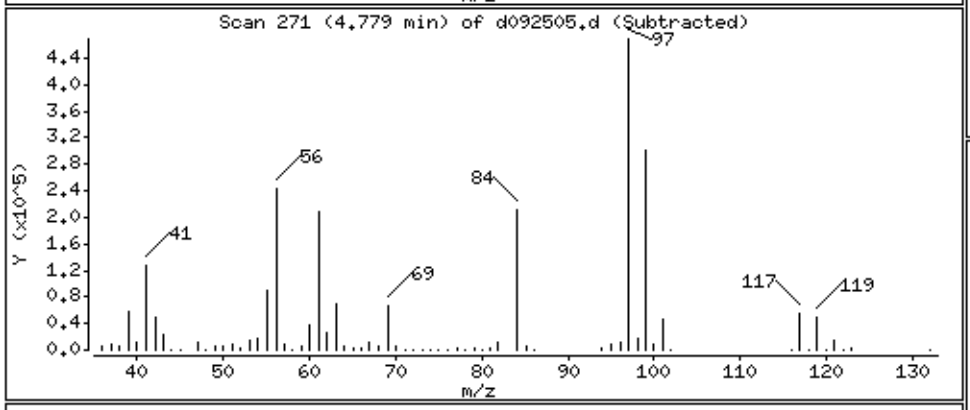
Column diameter: 0.53

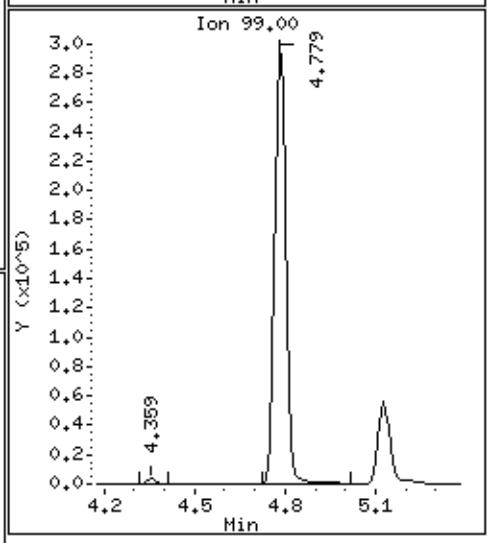
85 1,1,1-Trichloroethane

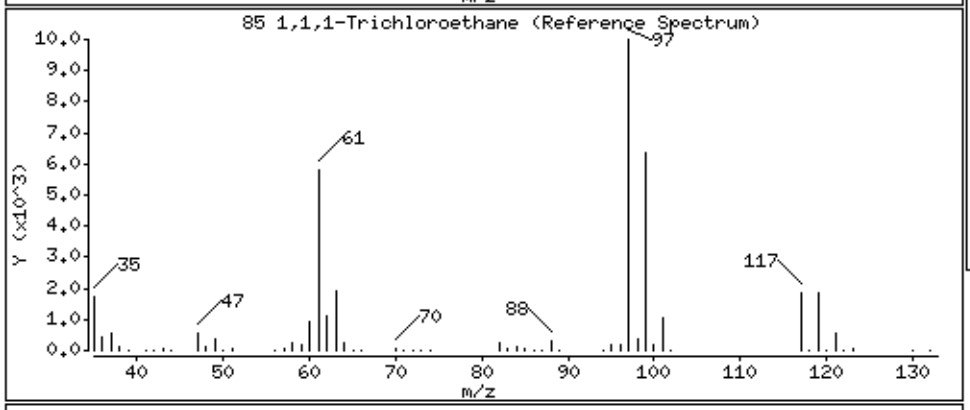
Concentration: 51.939 PPBV

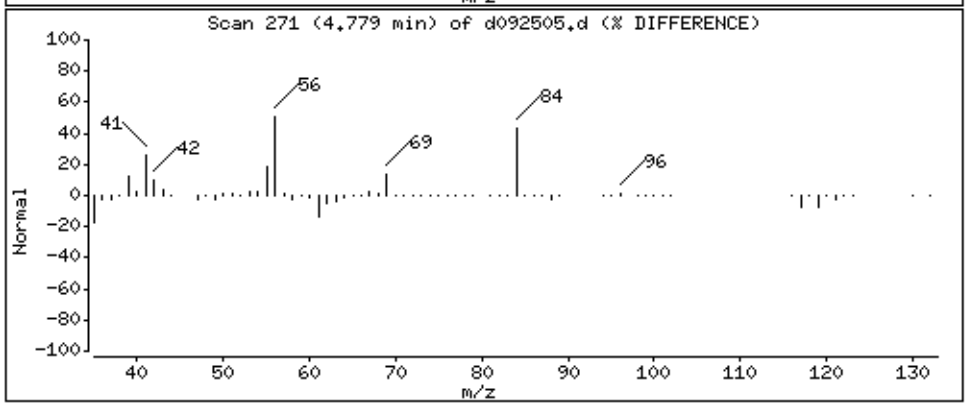












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

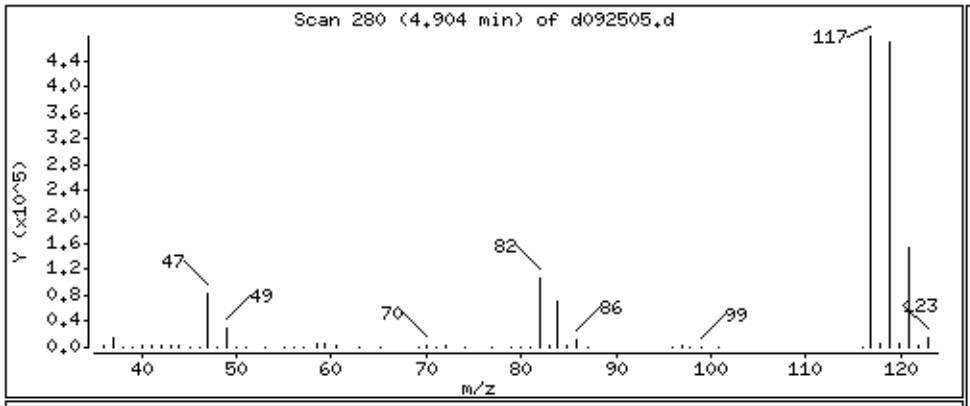
Operator: ccy

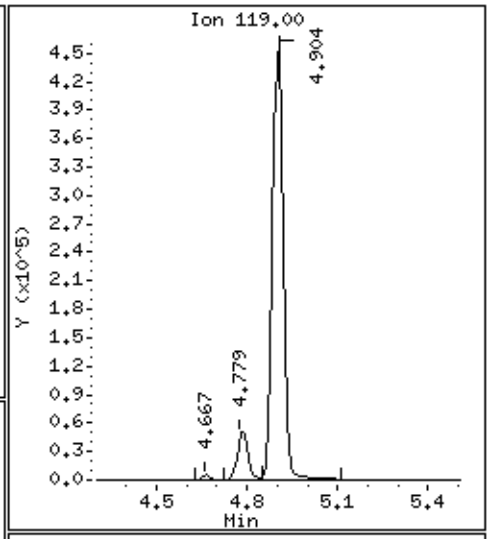
Column phase: RTx-624

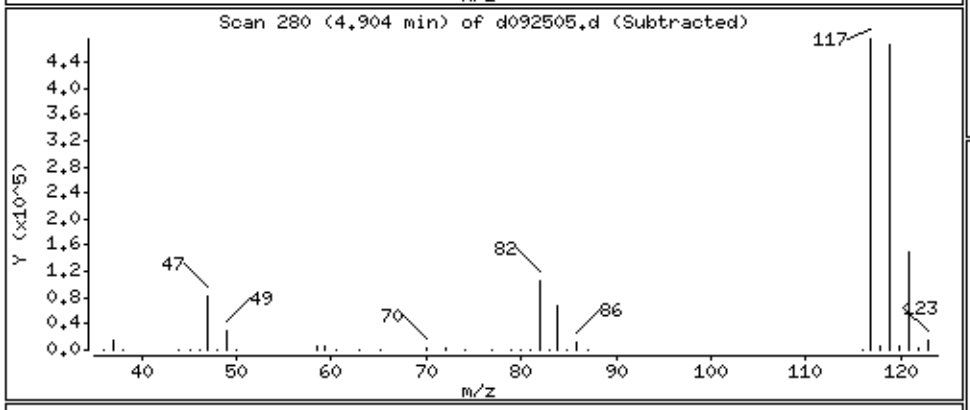
Column diameter: 0.53

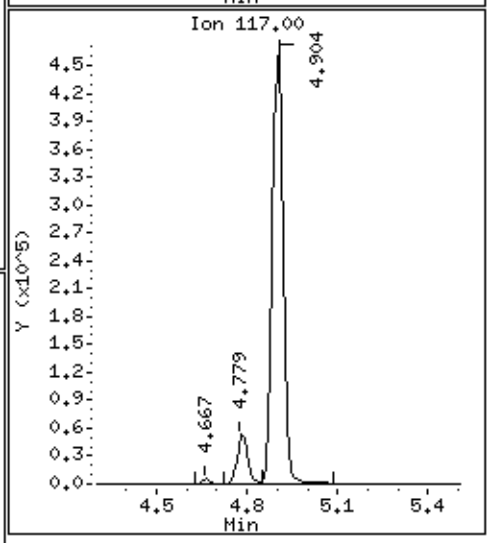
86 Carbon Tetrachloride

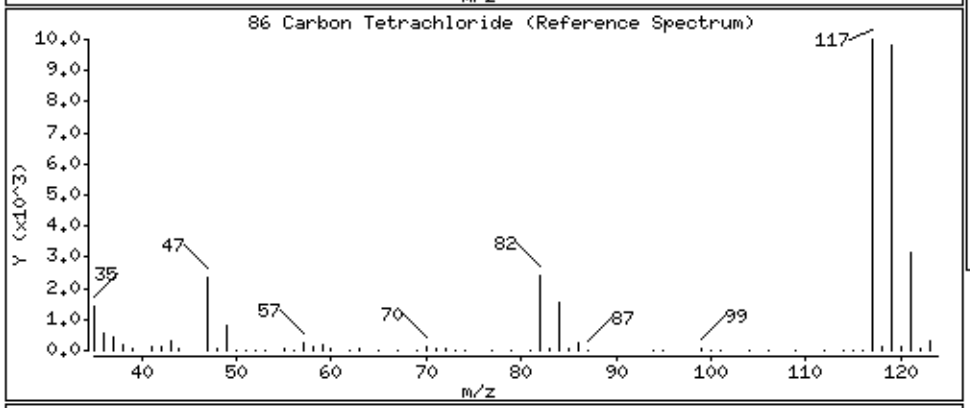
Concentration: 55.843 PPBV

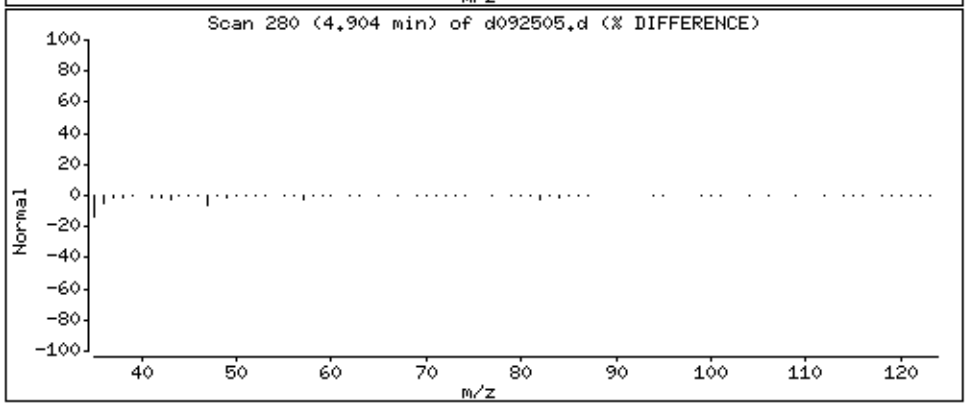












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

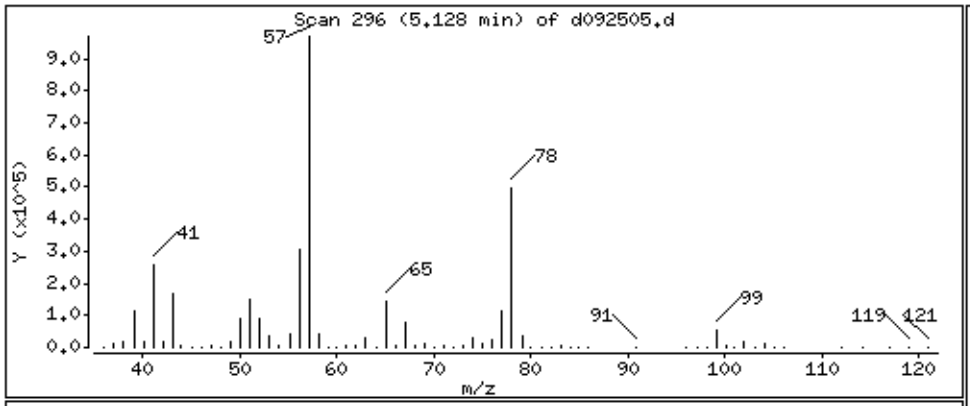
Operator: ccy

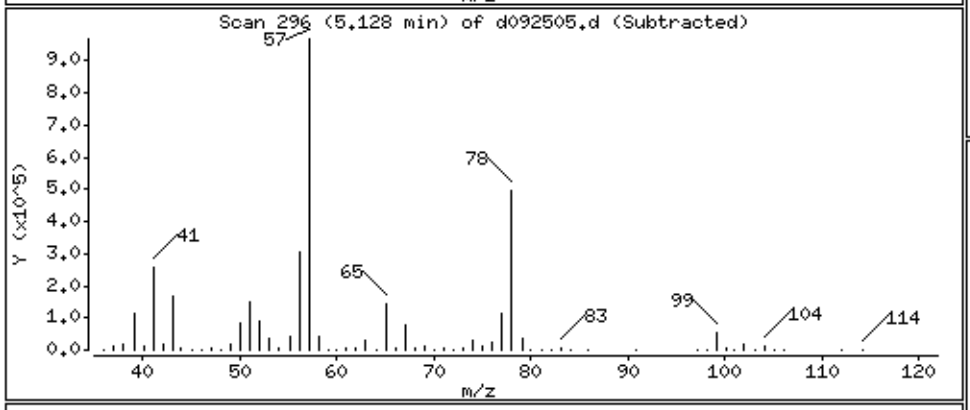
Column phase: RTx-624

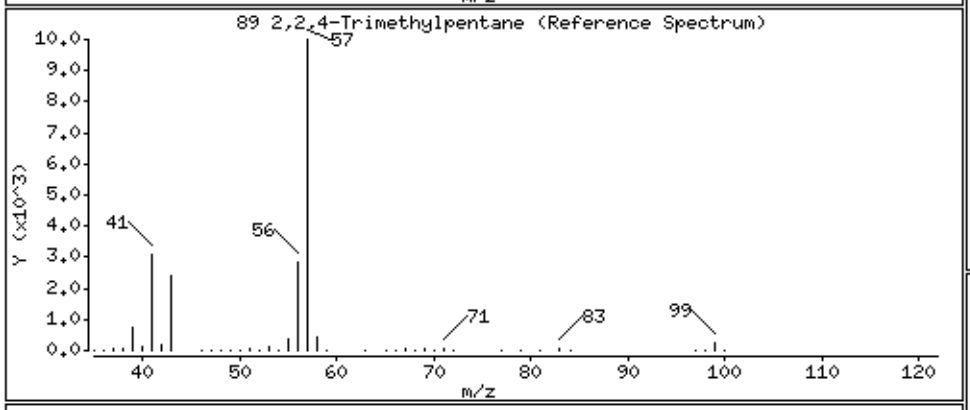
Column diameter: 0.53

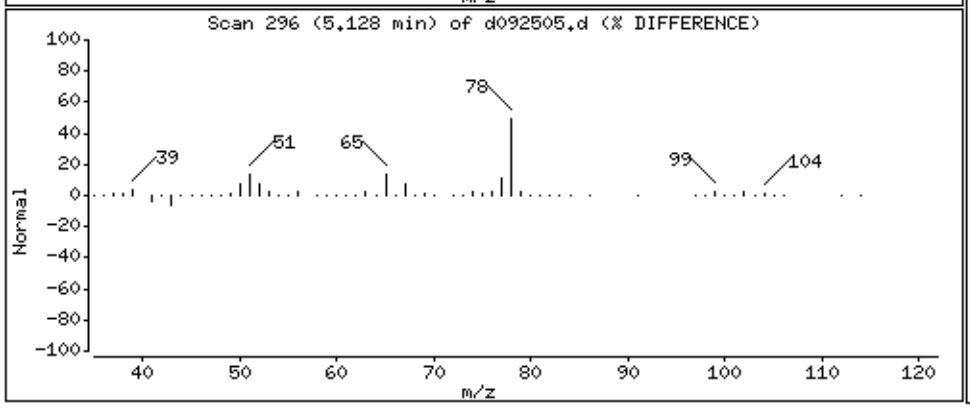
89 2,2,4-Trimethylpentane

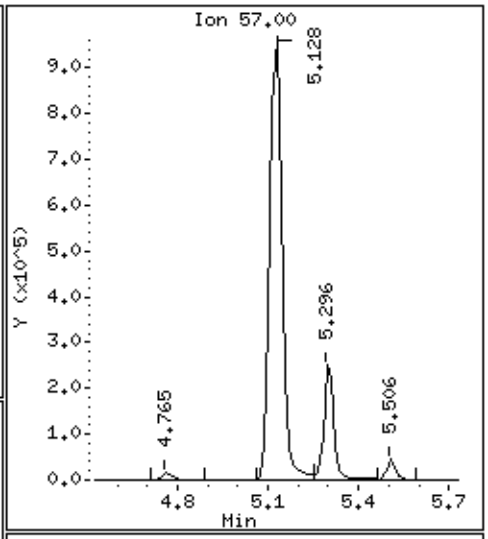
Concentration: 51.959 PPBV

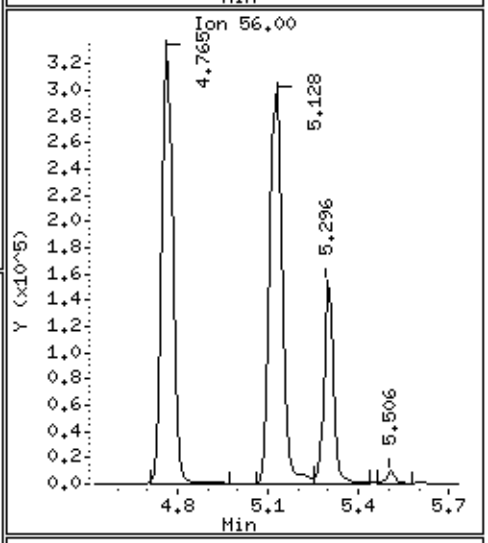


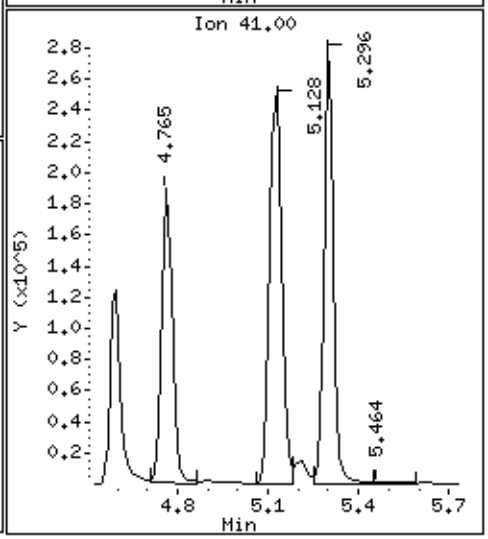












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

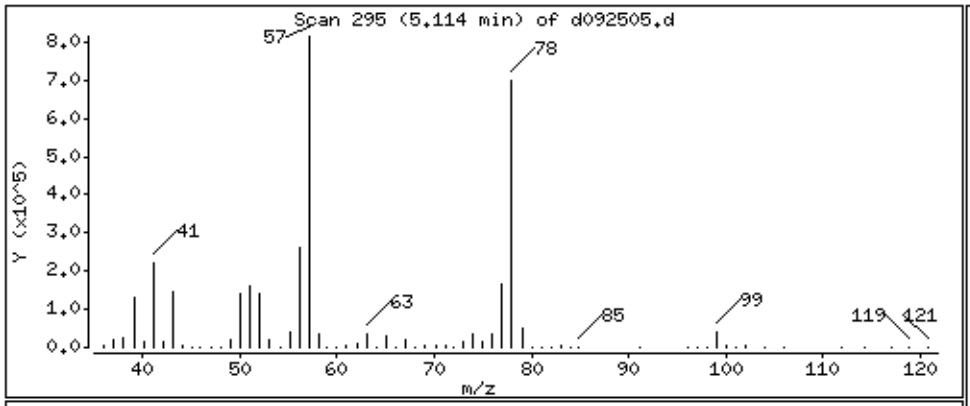
Operator: ccy

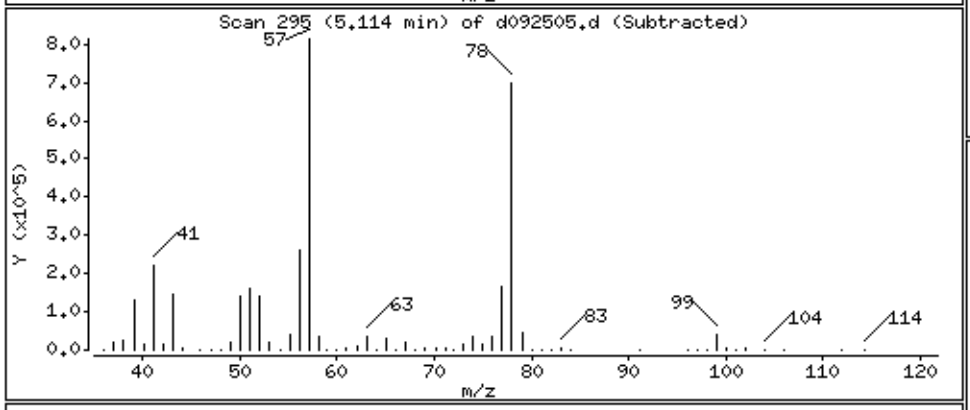
Column phase: RTx-624

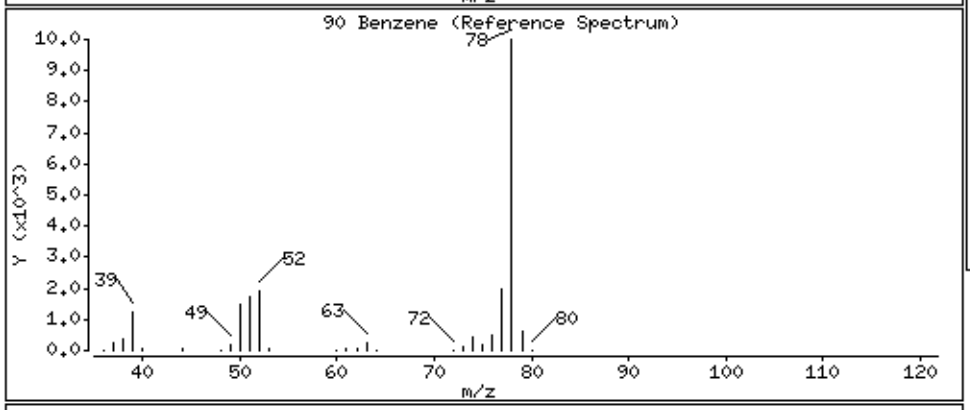
Column diameter: 0.53

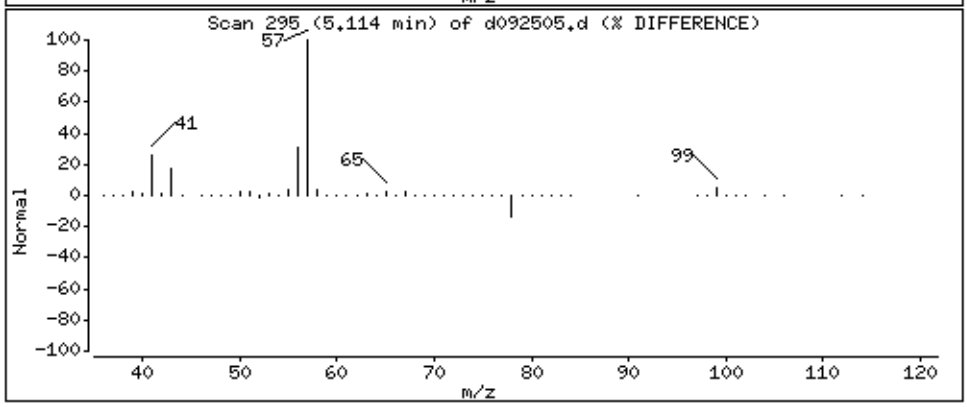
90 Benzene

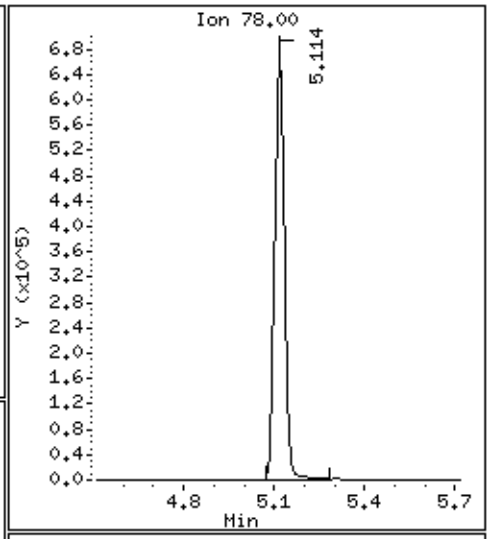
Concentration: 48.380 PPBV

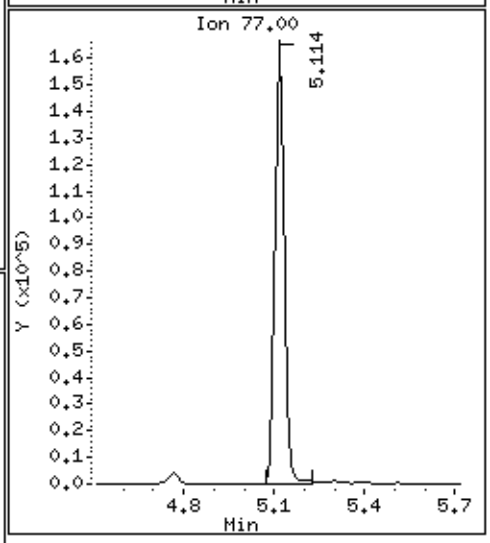












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

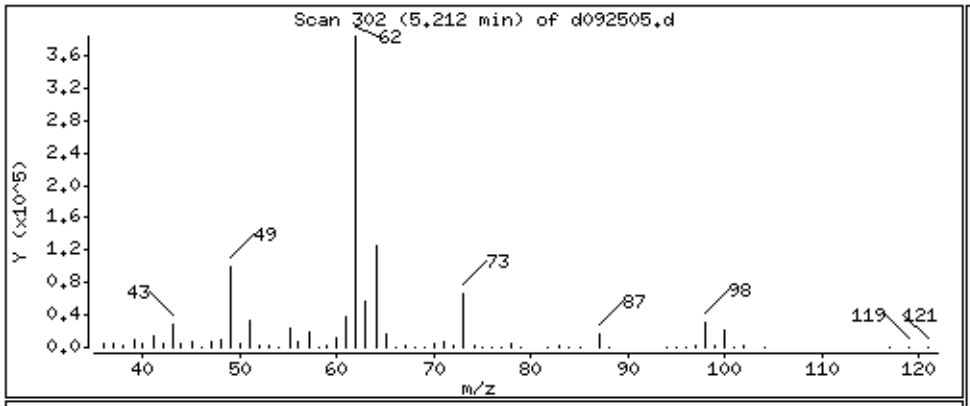
Operator: ccy

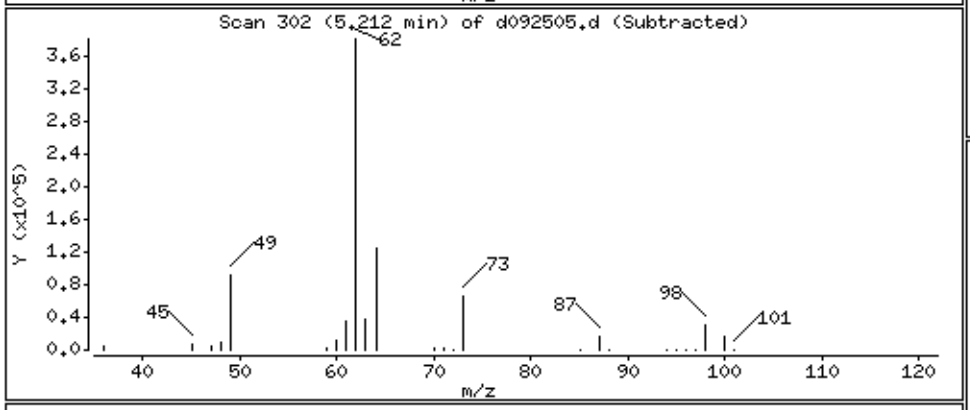
Column phase: RTx-624

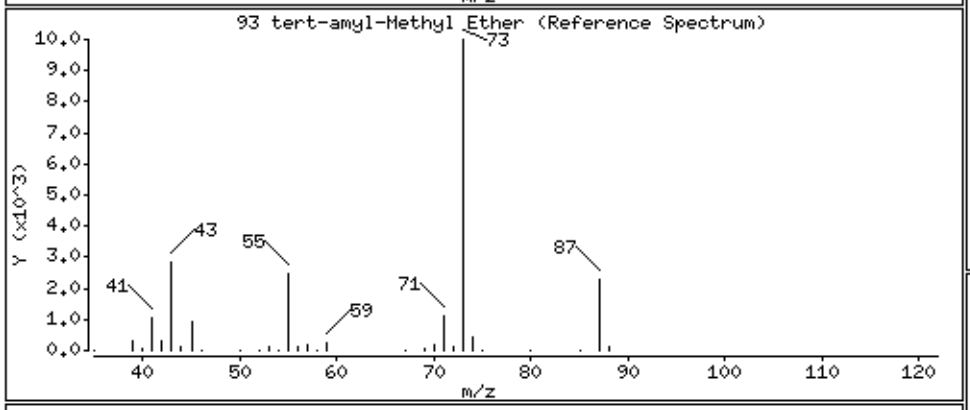
Column diameter: 0.53

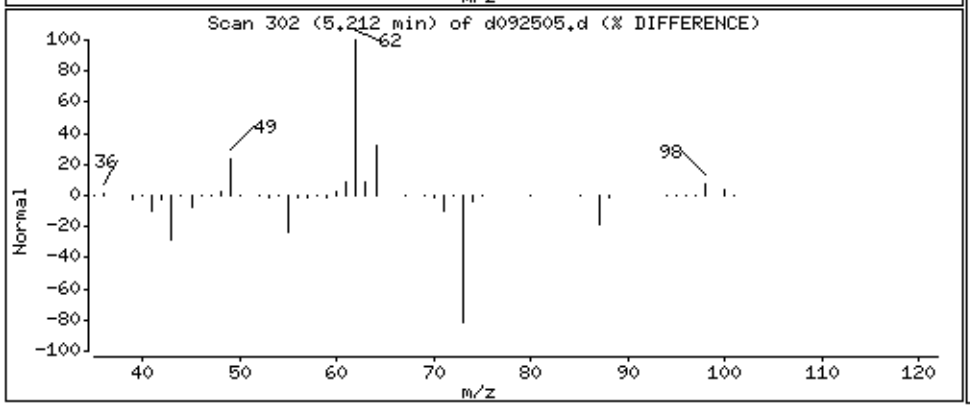
93 tert-amyl-Methyl Ether

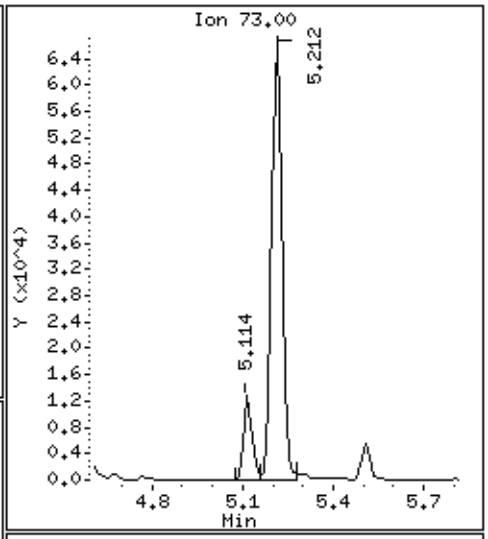
Concentration: 5.214 PPBV

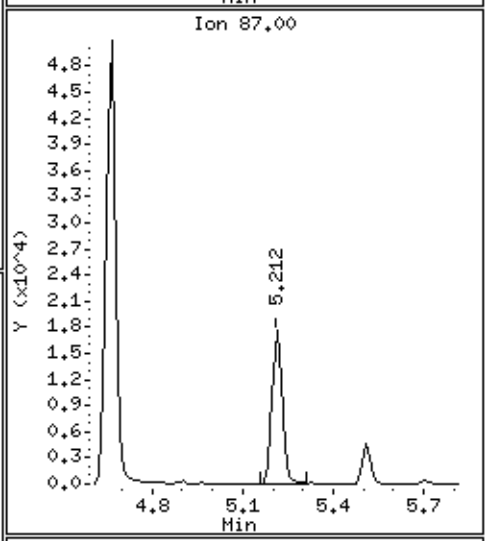


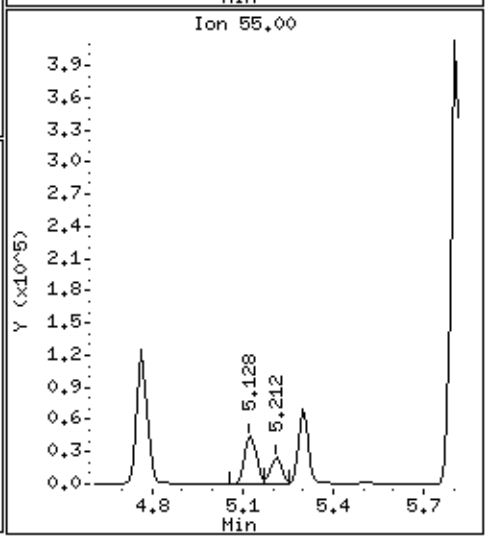












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

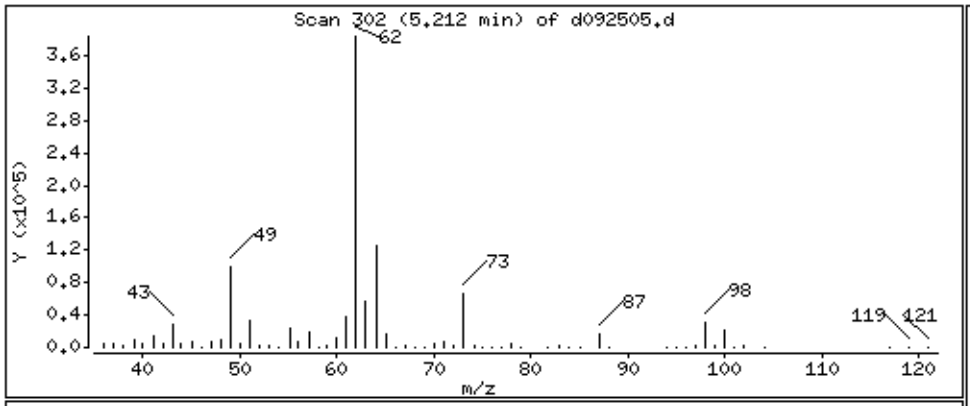
Operator: ccy

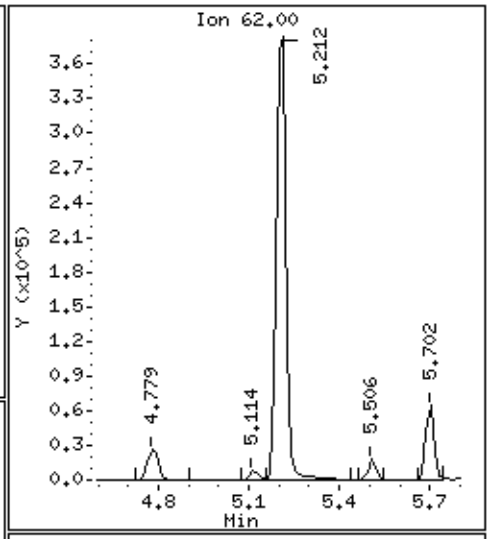
Column phase: RTx-624

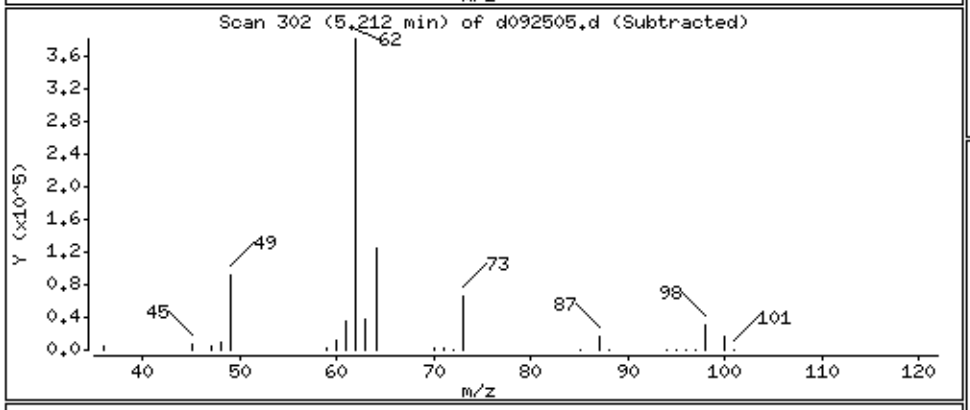
Column diameter: 0.53

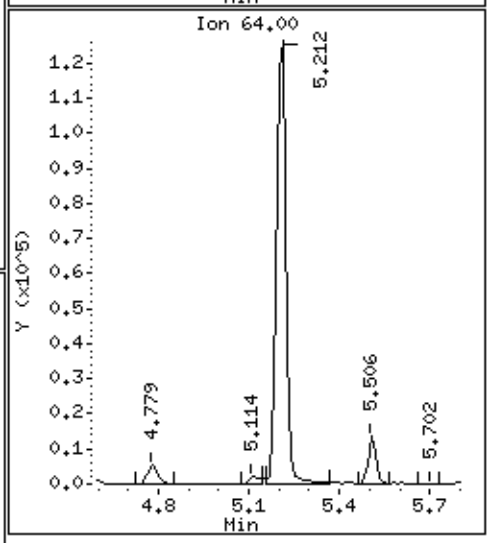
94 1,2-Dichloroethane

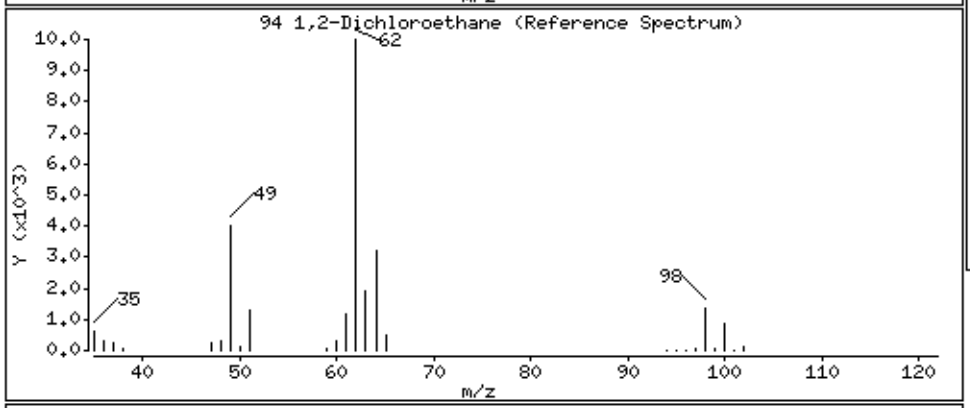
Concentration: 50.800 PPBV

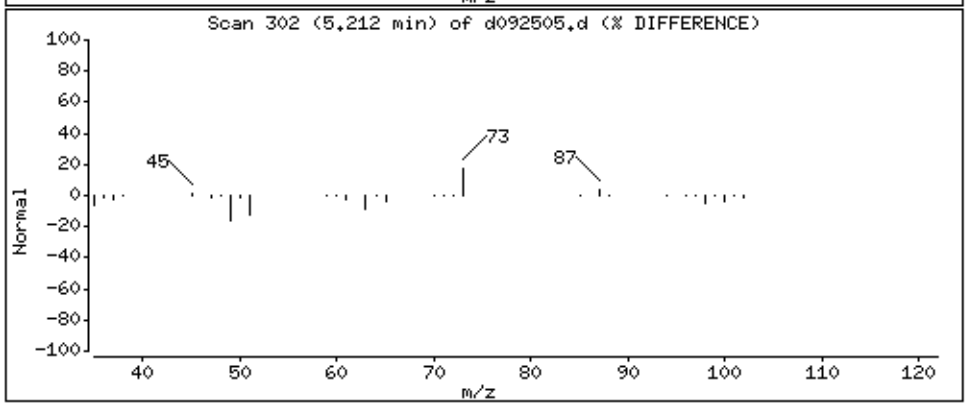












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

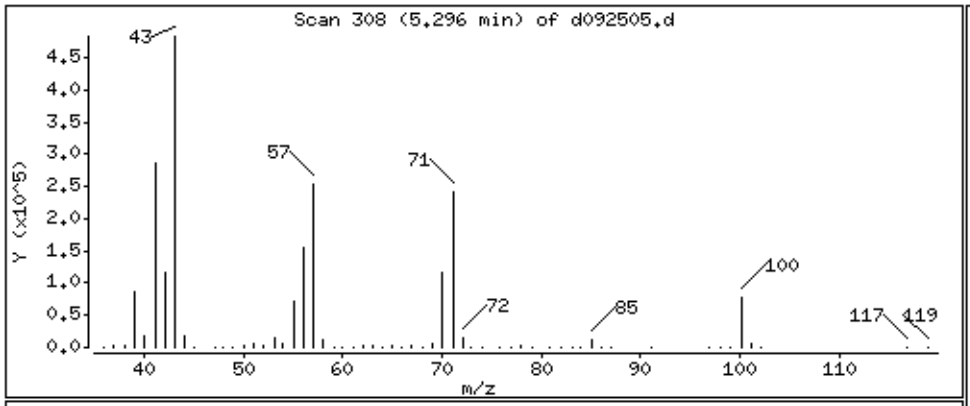
Operator: ccy

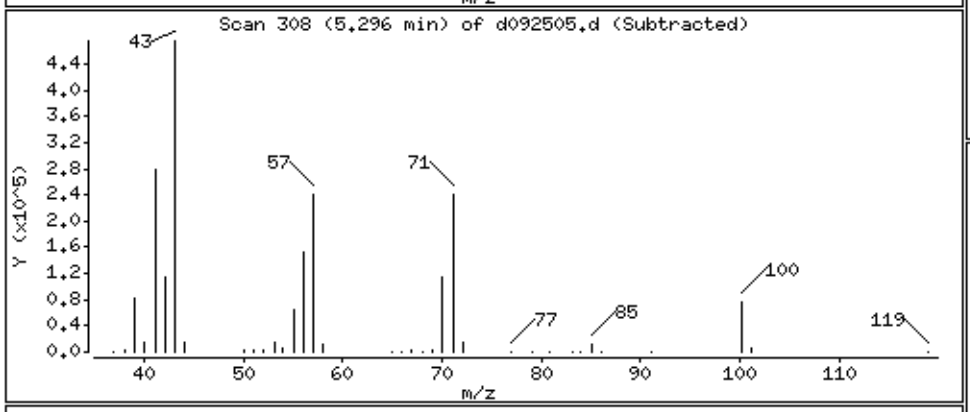
Column phase: RTx-624

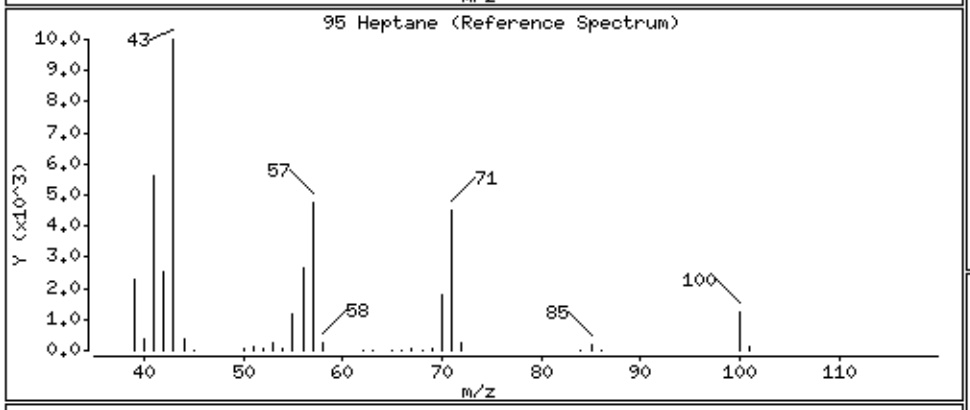
Column diameter: 0.53

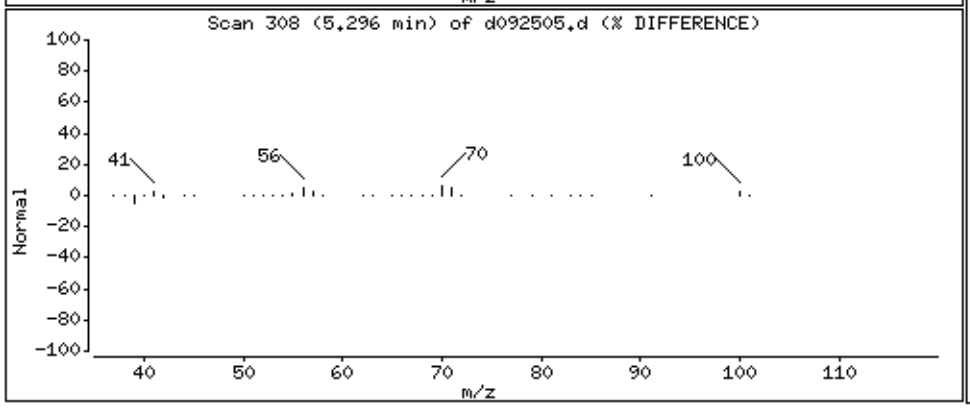
95 Heptane

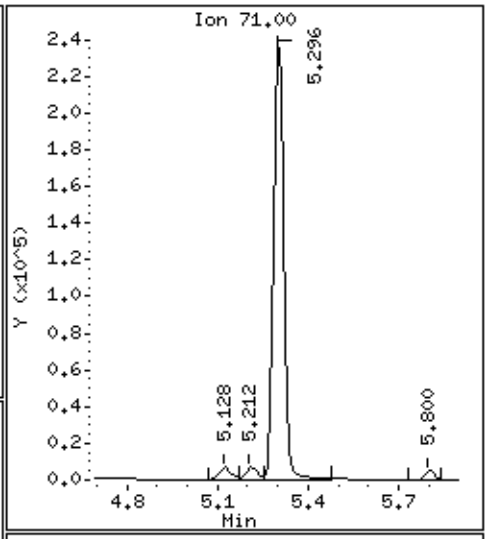
Concentration: 51.176 PPBV

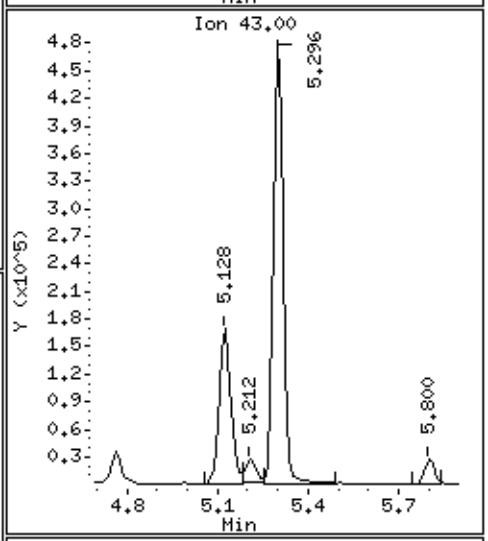


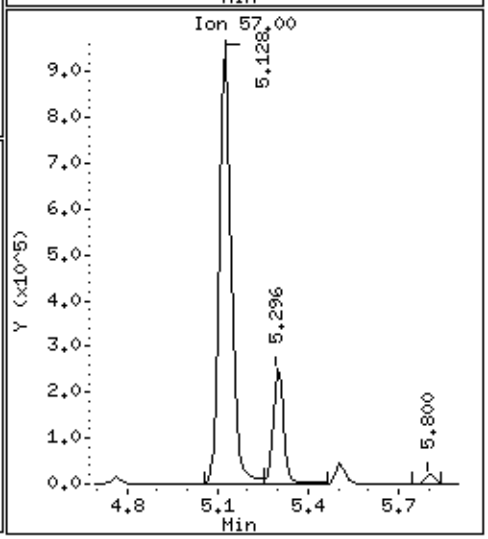












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

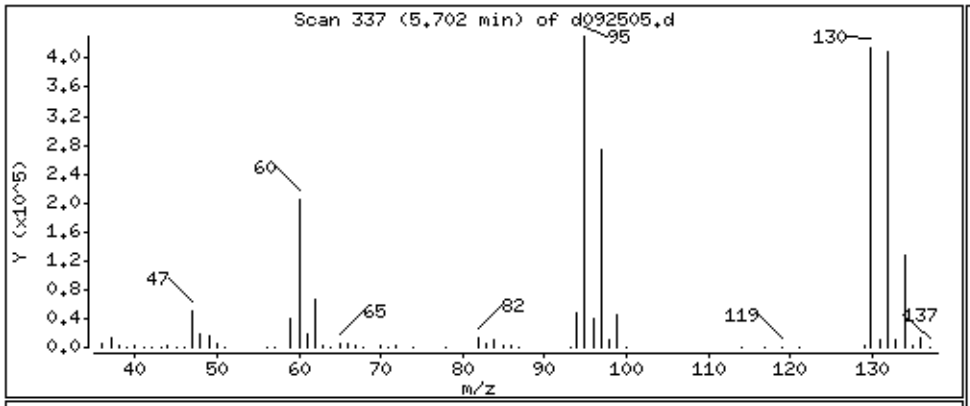
Operator: ccy

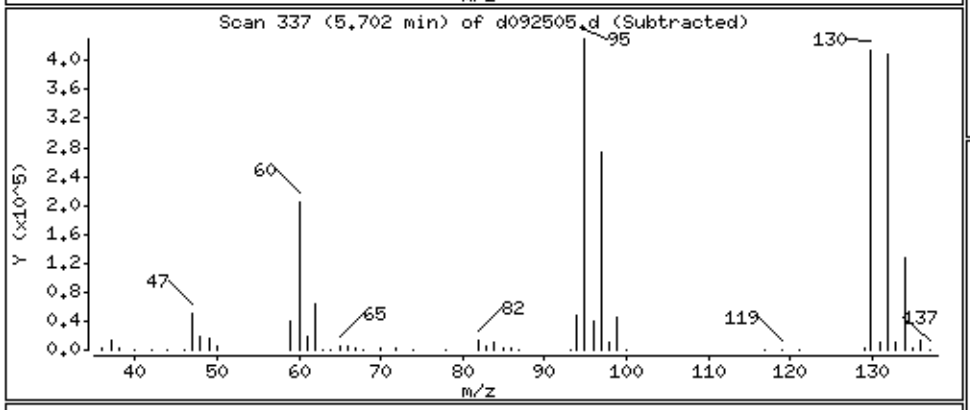
Column phase: RTx-624

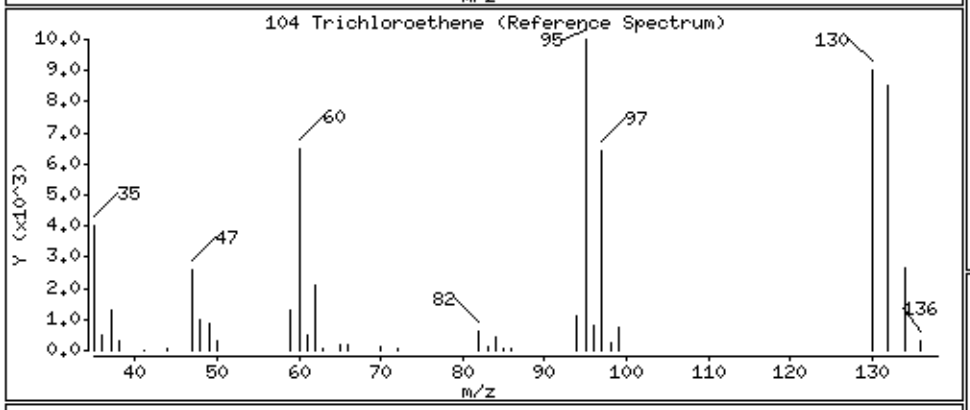
Column diameter: 0.53

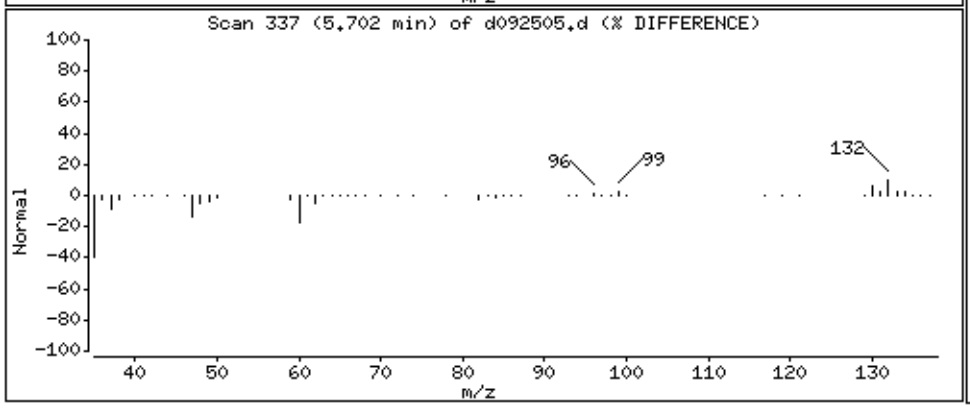
104 Trichloroethene

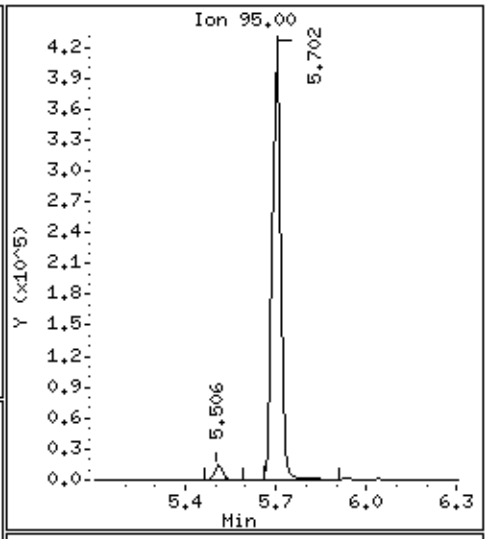
Concentration: 52.086 PPBV

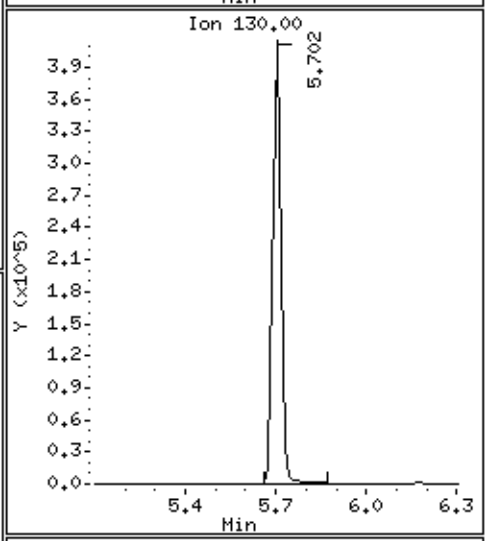


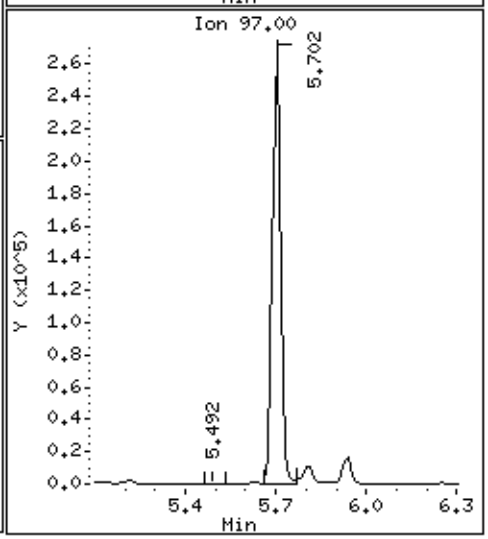












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

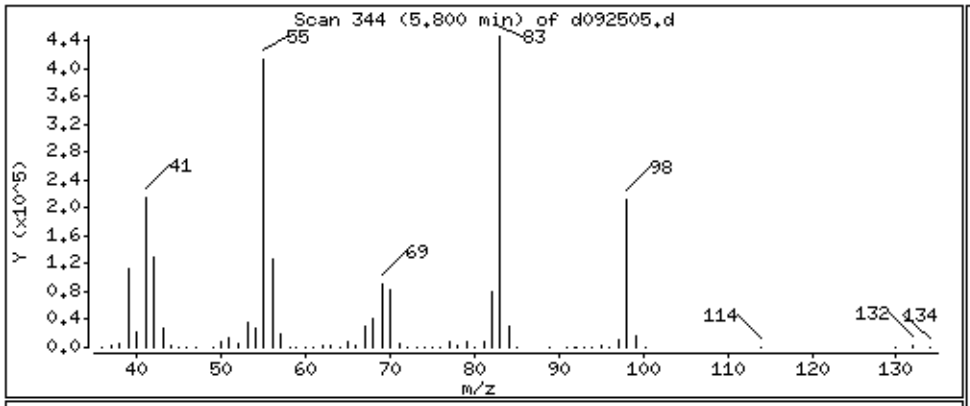
Operator: ccy

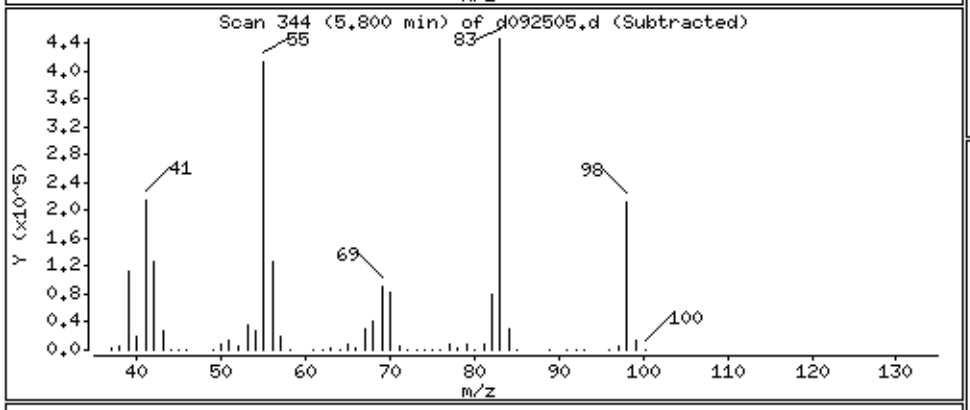
Column phase: RTx-624

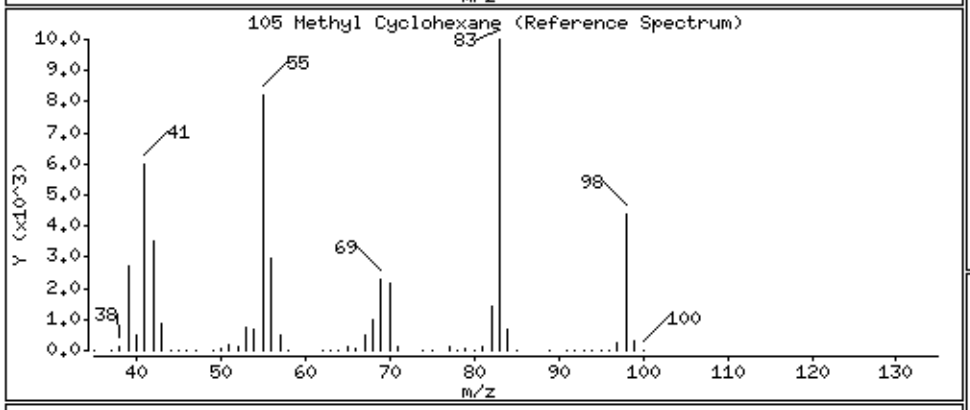
Column diameter: 0.53

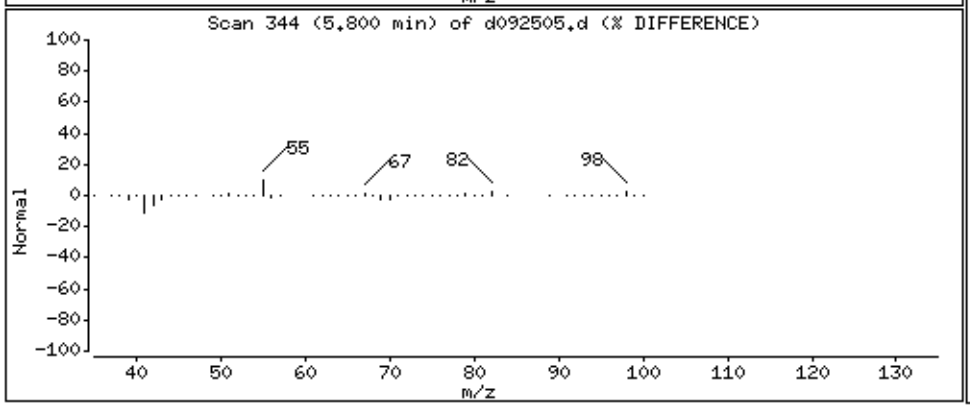
105 Methyl Cyclohexane

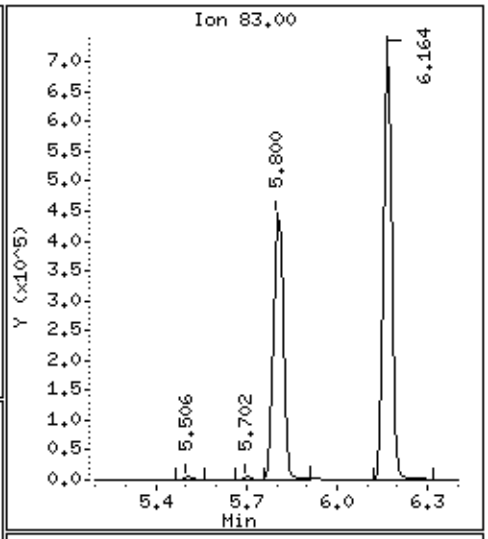
Concentration: 50.428 PPBV

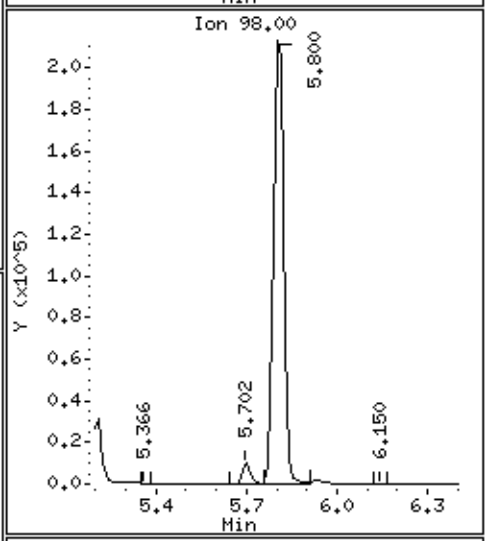


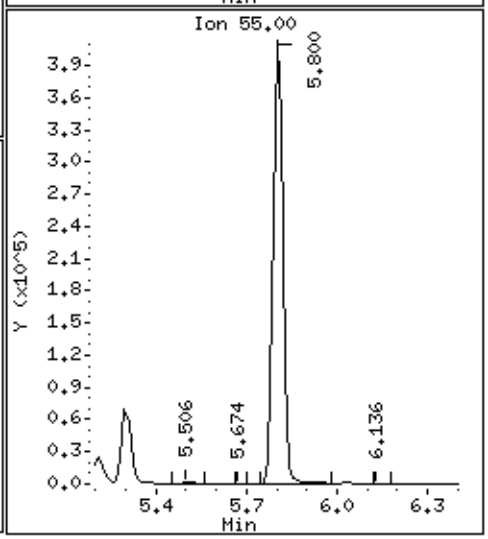












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

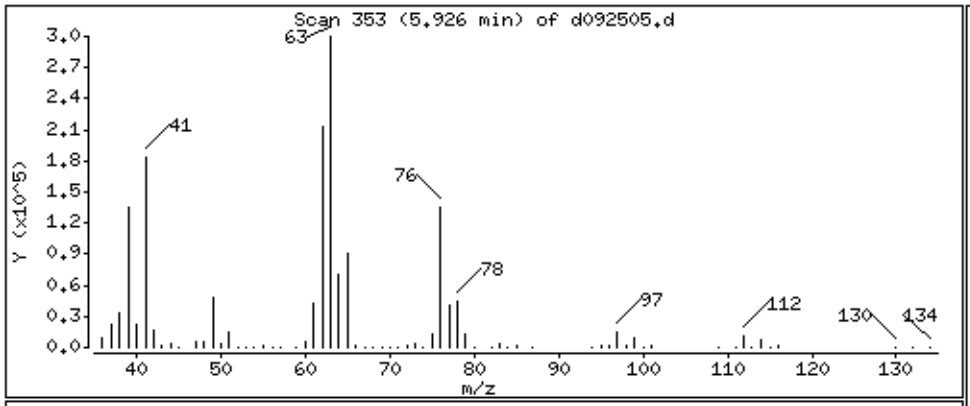
Operator: ccy

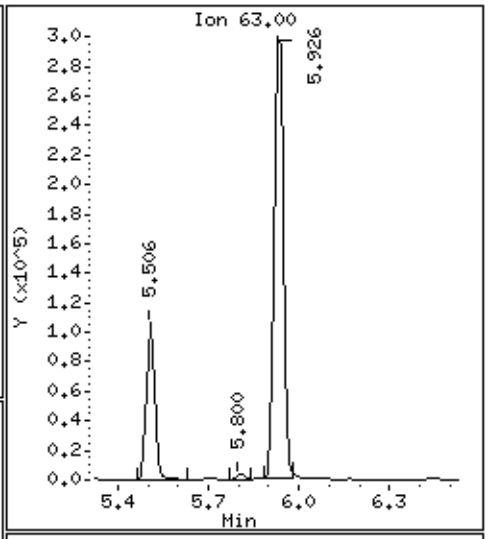
Column phase: RTx-624

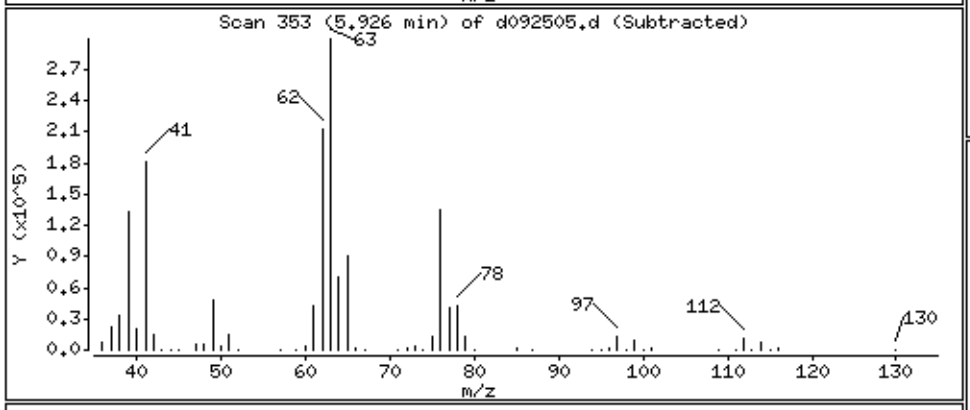
Column diameter: 0.53

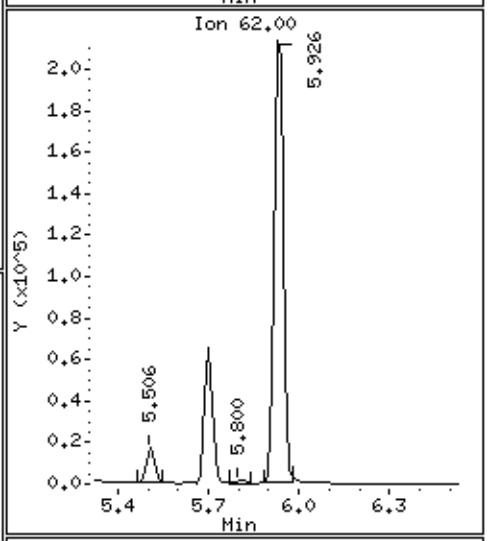
106 1,2-Dichloropropane

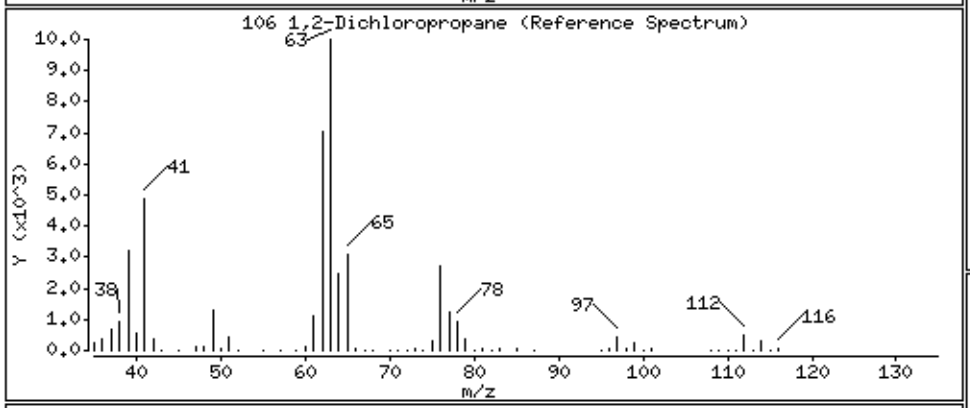
Concentration: 49.988 PPBV

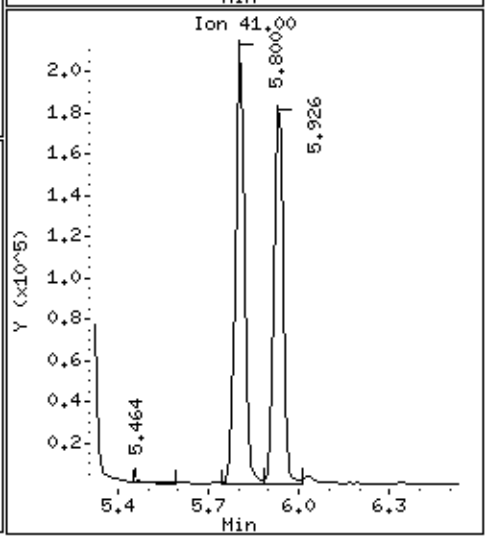


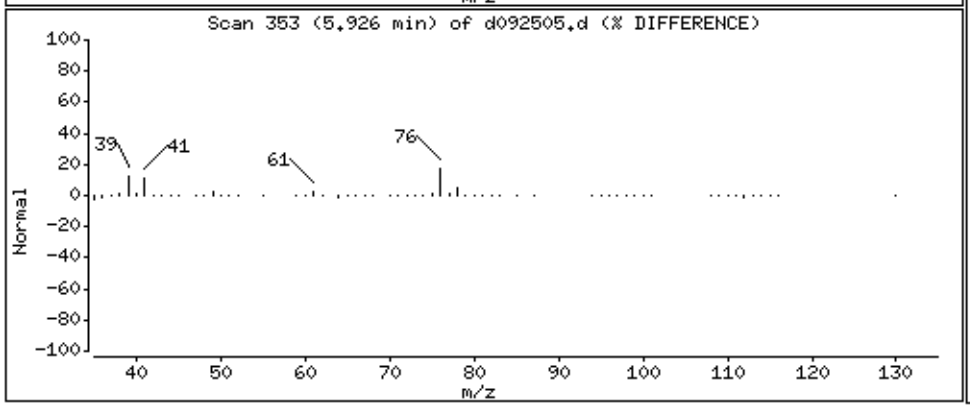












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

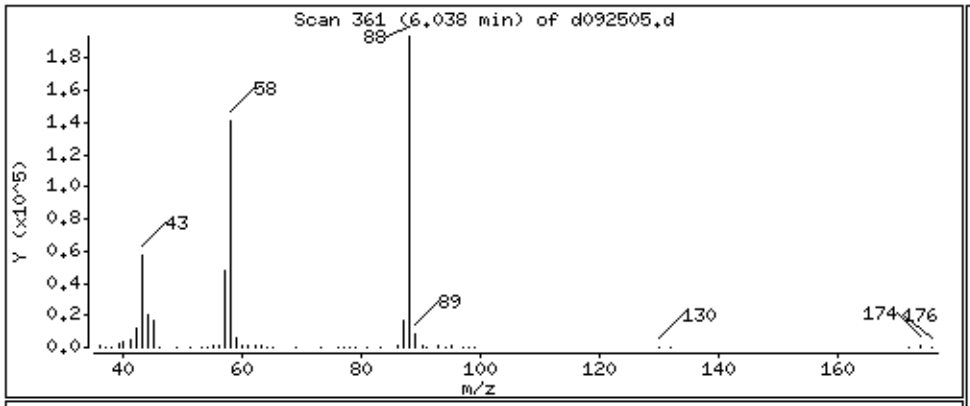
Operator: ccy

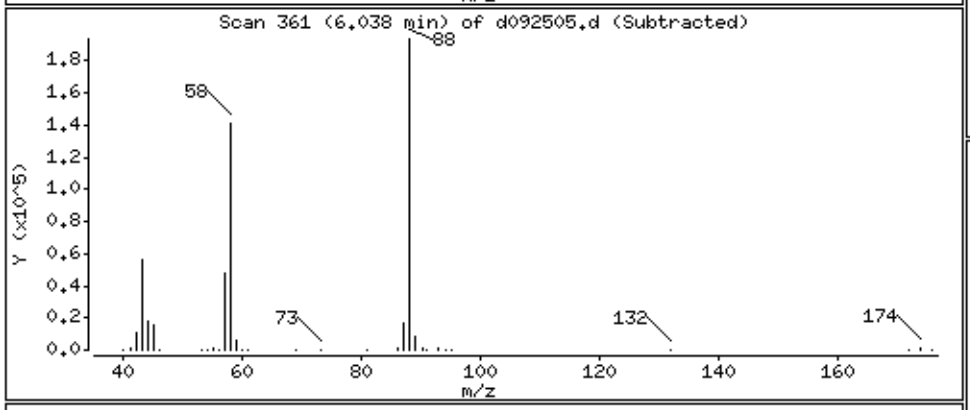
Column phase: RTx-624

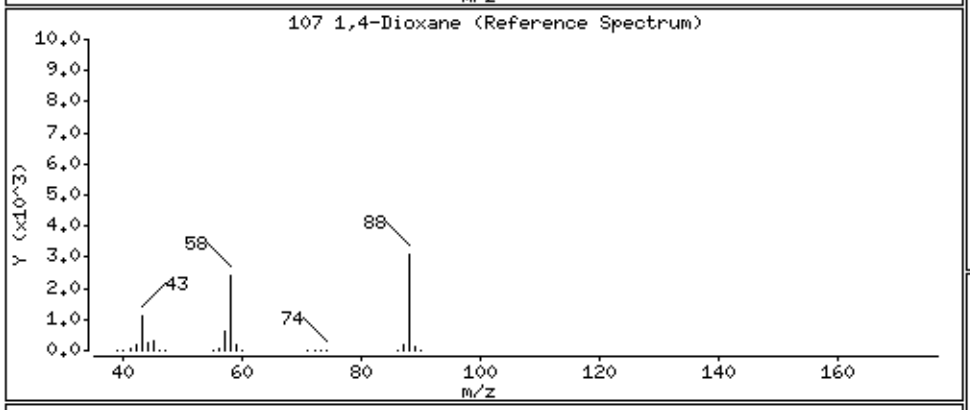
Column diameter: 0.53

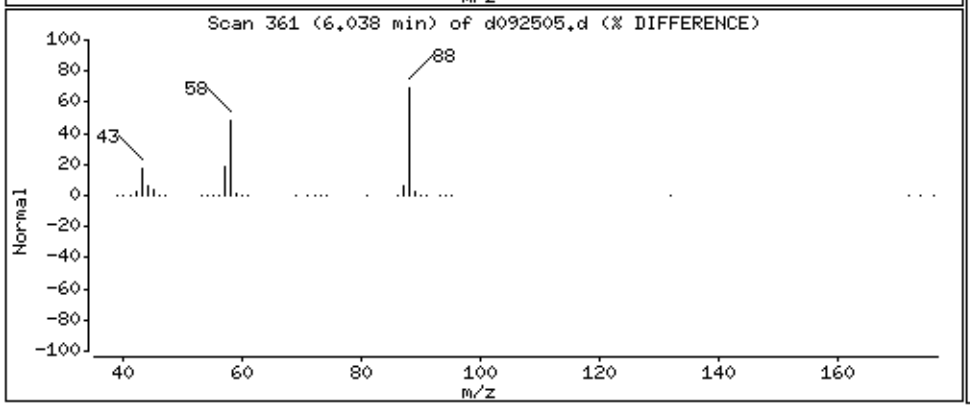
107 1,4-Dioxane

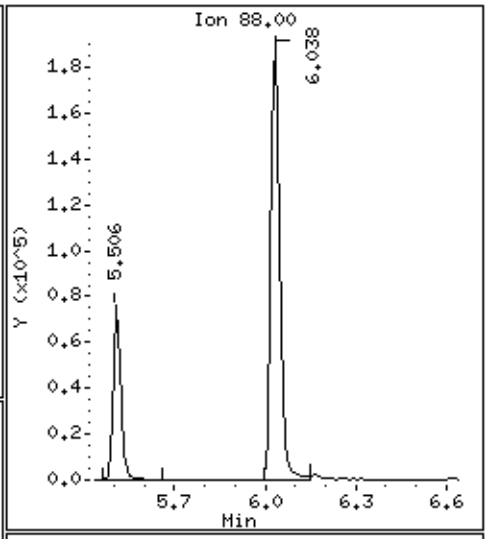
Concentration: 50.774 PPBV

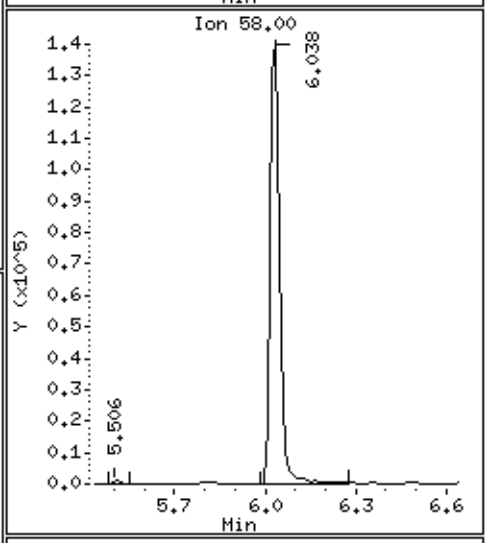


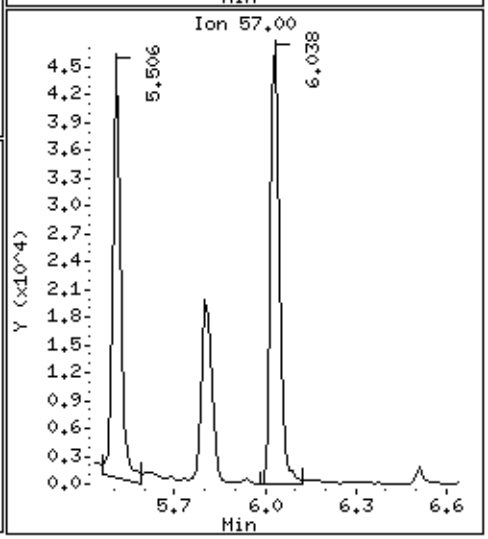












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

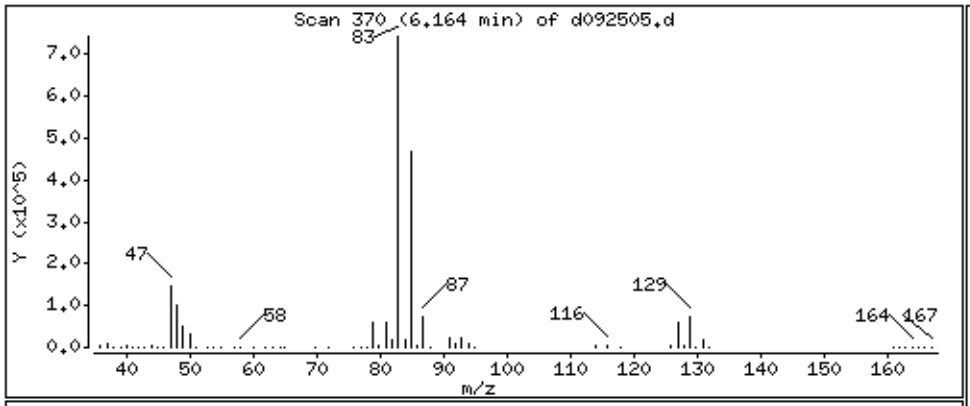
Operator: ccy

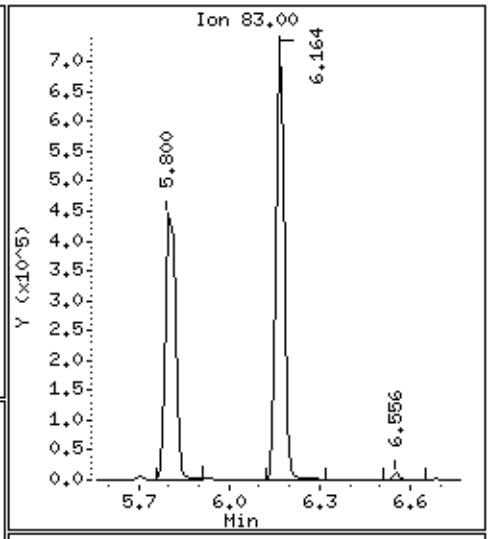
Column phase: RTx-624

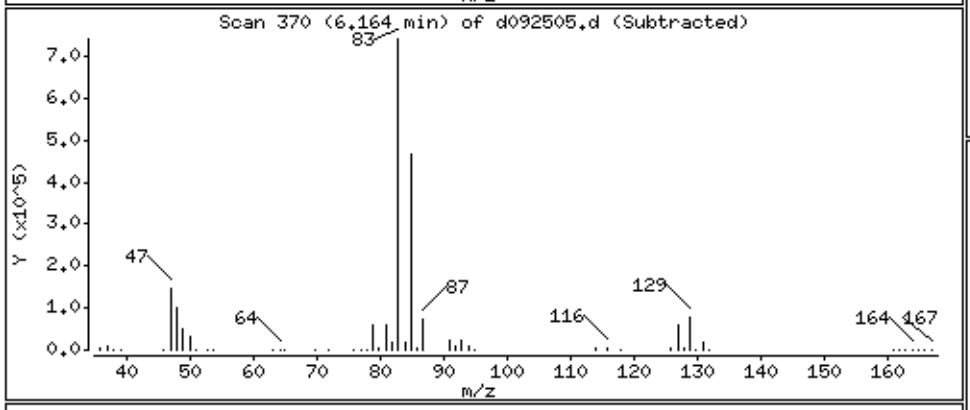
Column diameter: 0.53

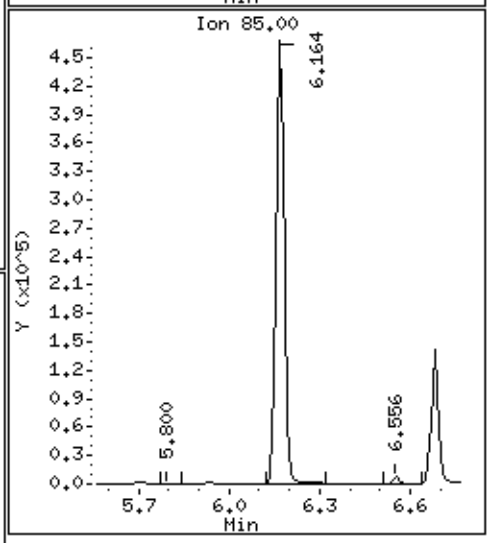
108 Bromodichloromethane

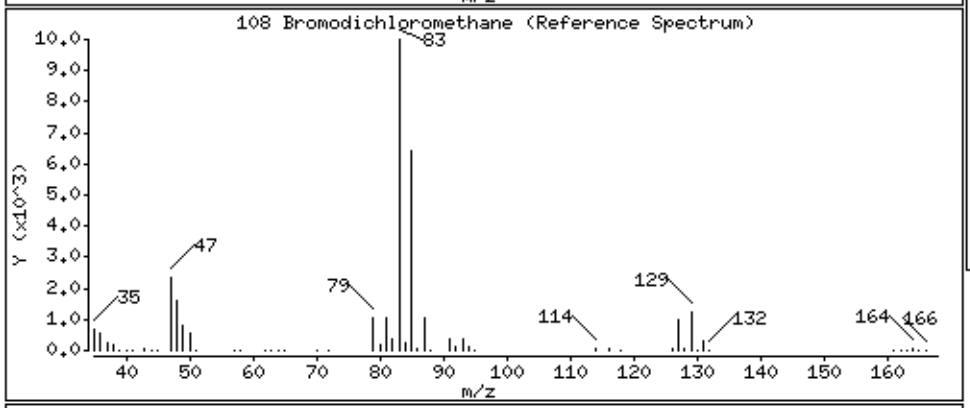
Concentration: 52.949 PPBV

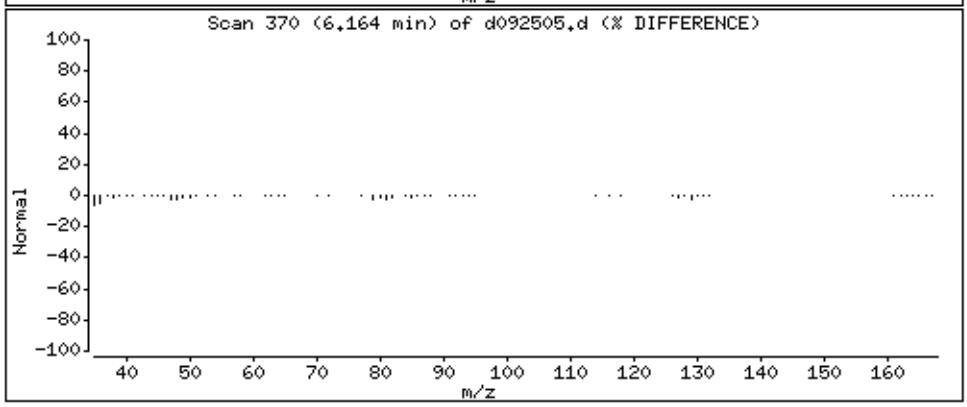












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

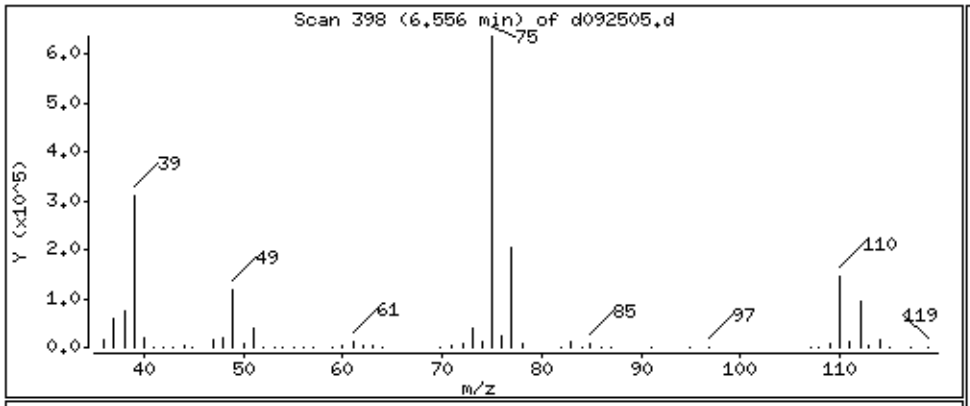
Operator: ccy

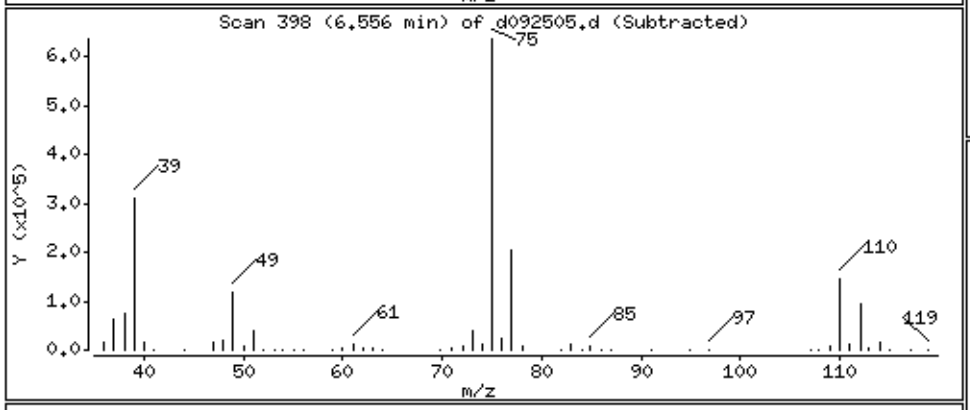
Column phase: RTx-624

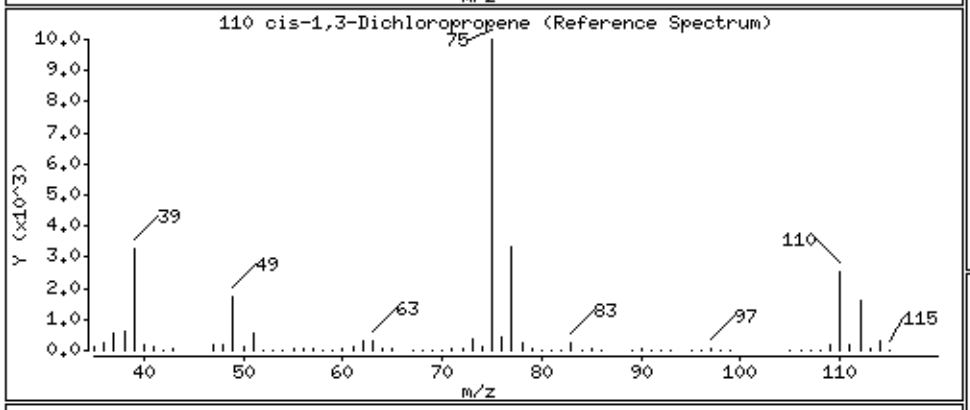
Column diameter: 0.53

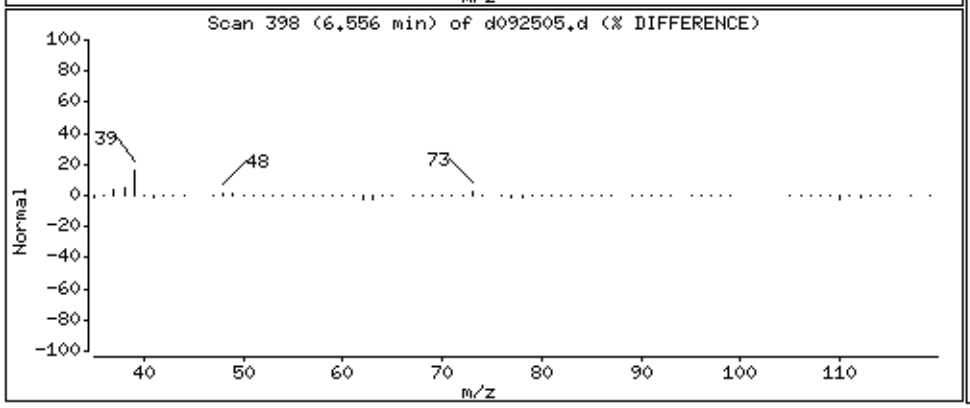
110 cis-1,3-Dichloropropene

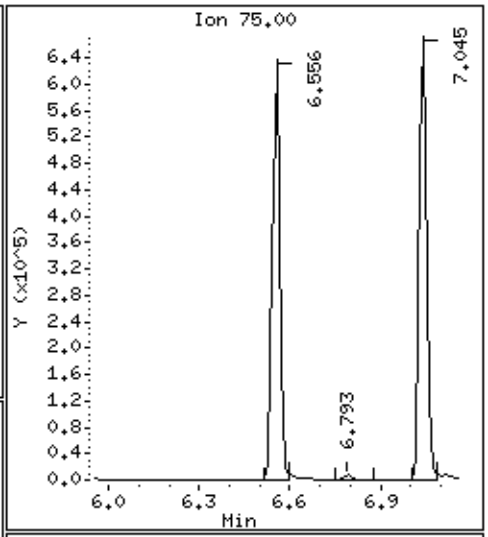
Concentration: 52.149 PPBV

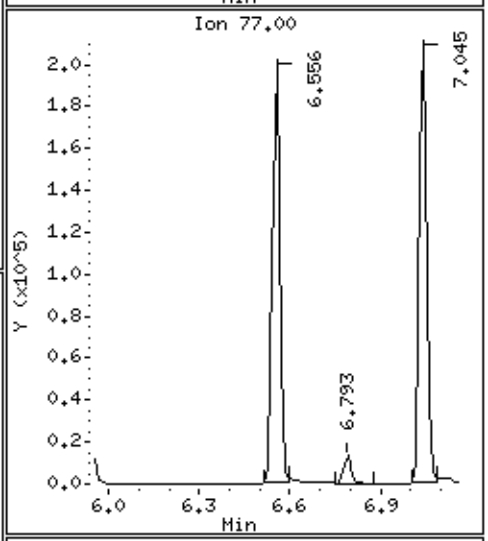


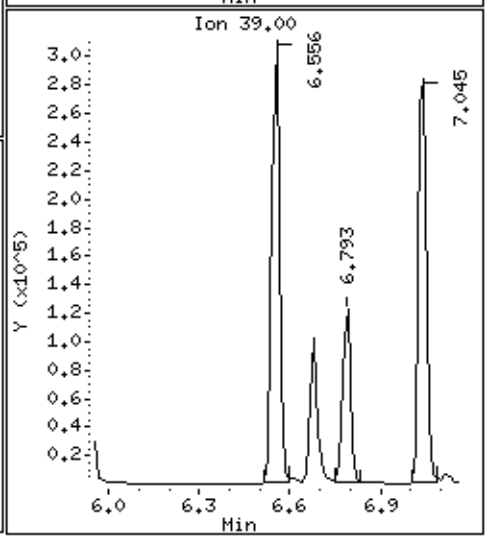












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

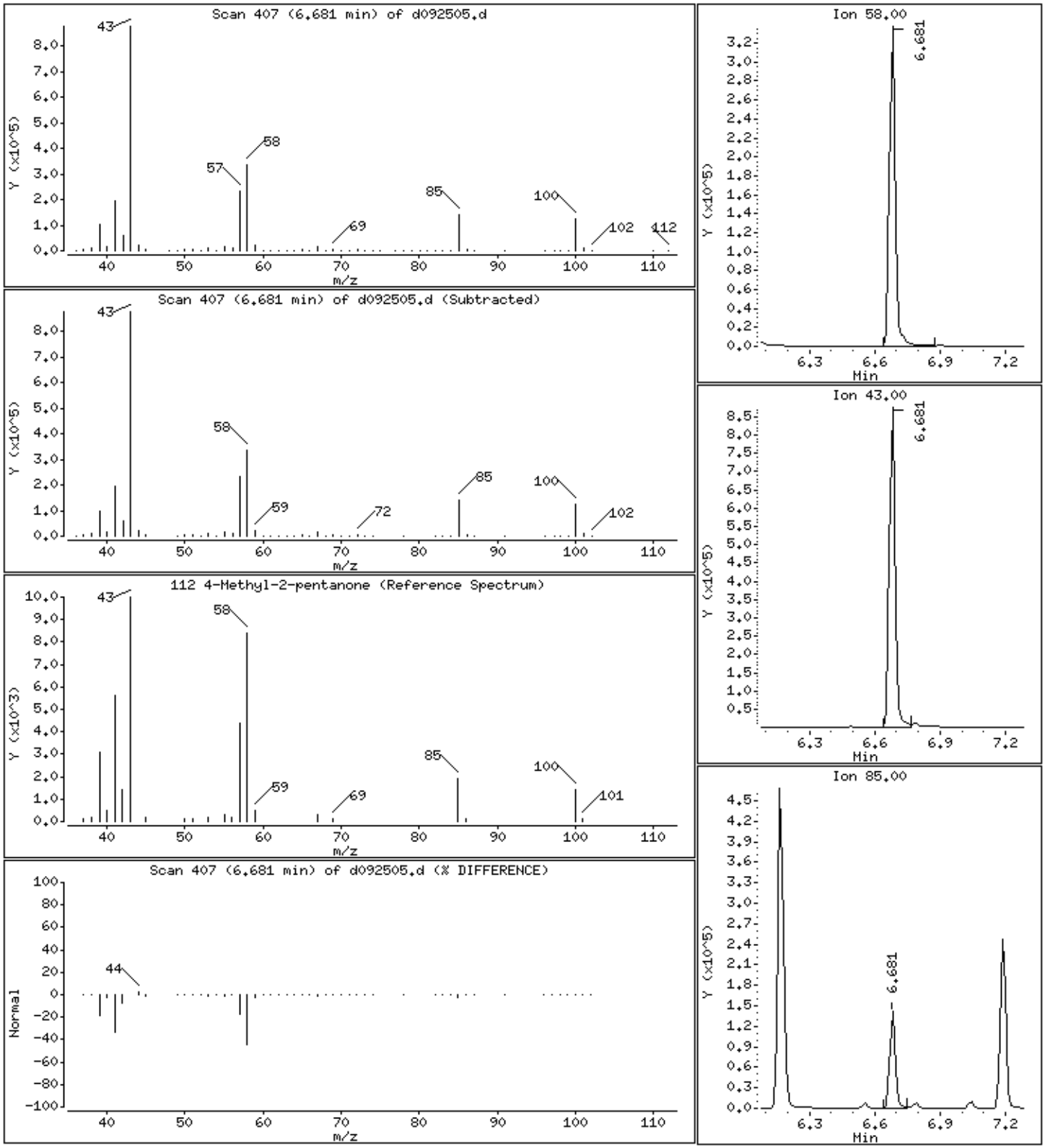
Operator: ccy

Column phase: RTx-624

Column diameter: 0.53

112 4-Methyl-2-pentanone

Concentration: 53.262 PPBV



Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

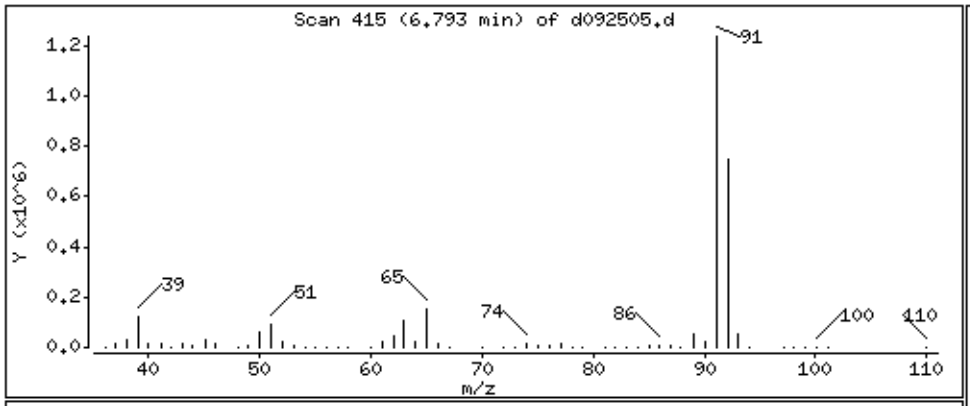
Operator: ccy

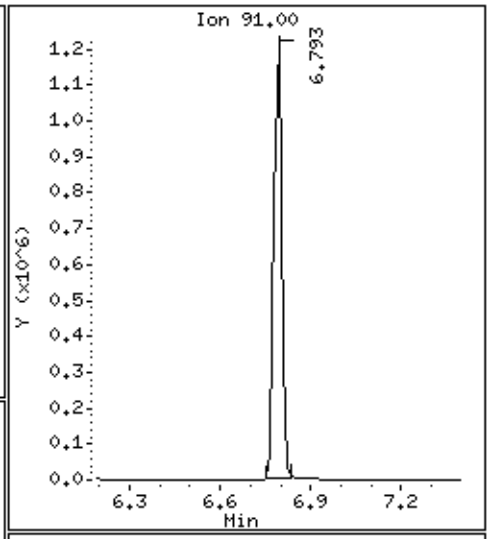
Column phase: RTx-624

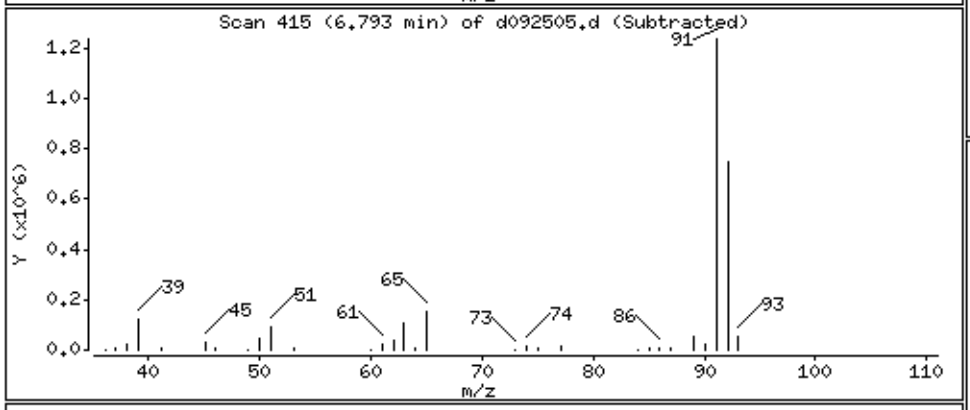
Column diameter: 0.53

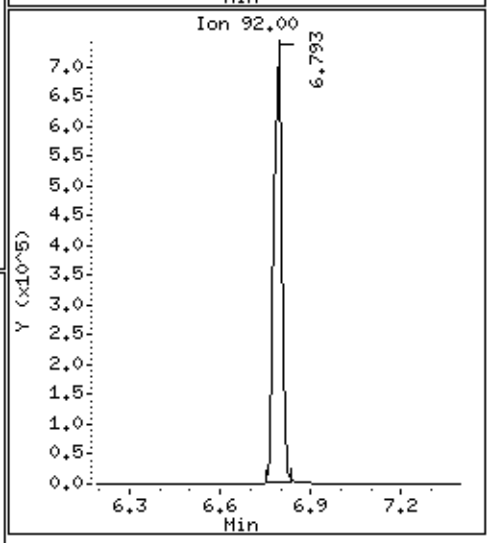
115 Toluene

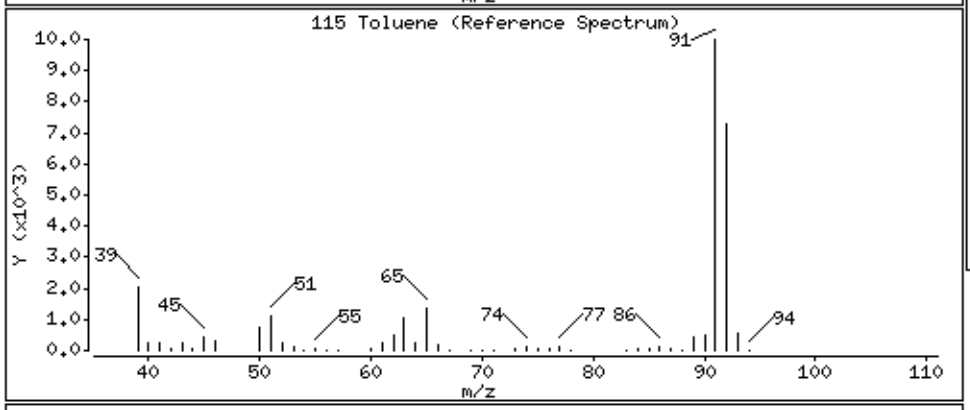
Concentration: 47.988 PPBV

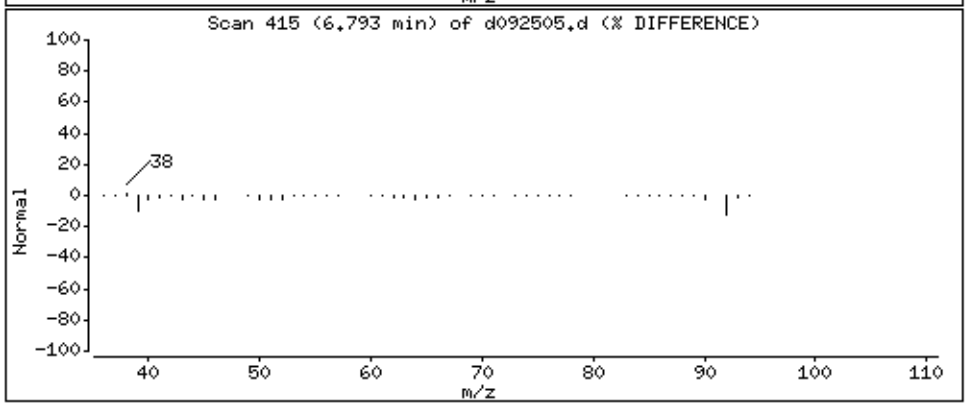












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

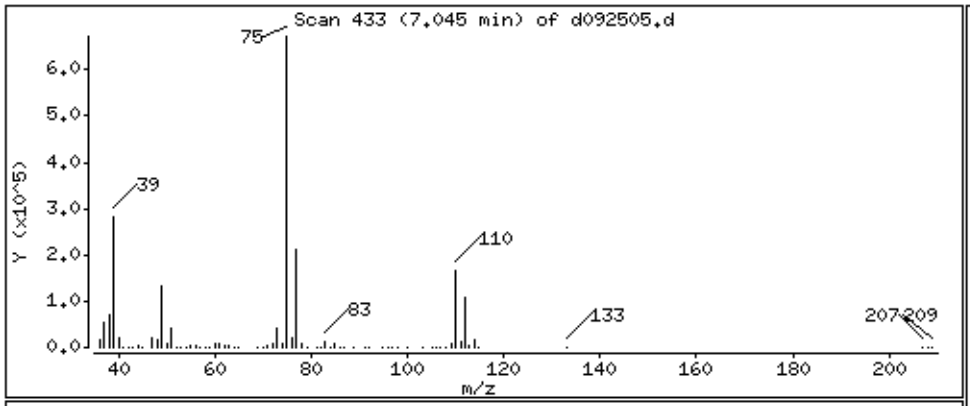
Operator: ccy

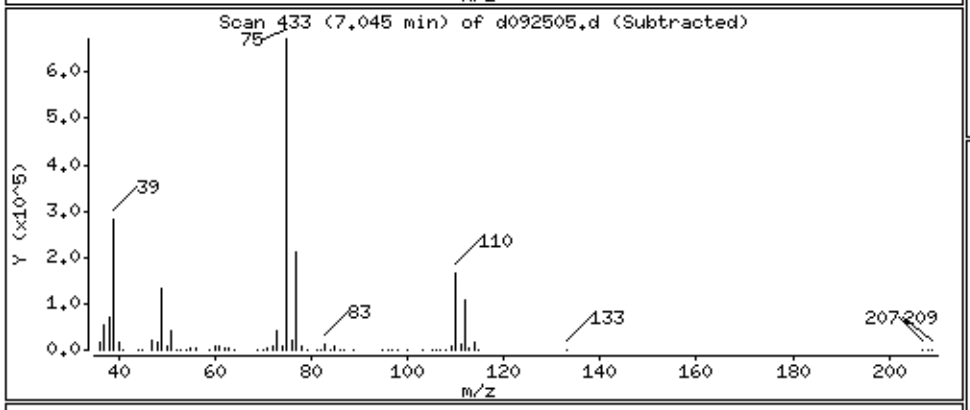
Column phase: RTx-624

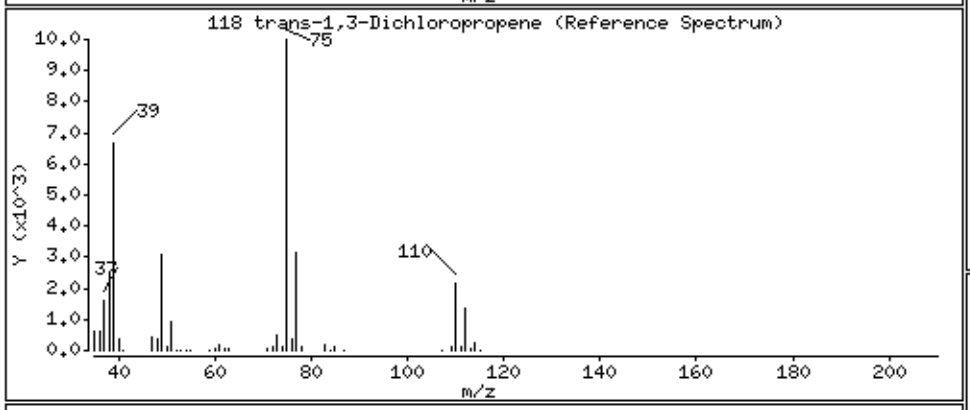
Column diameter: 0.53

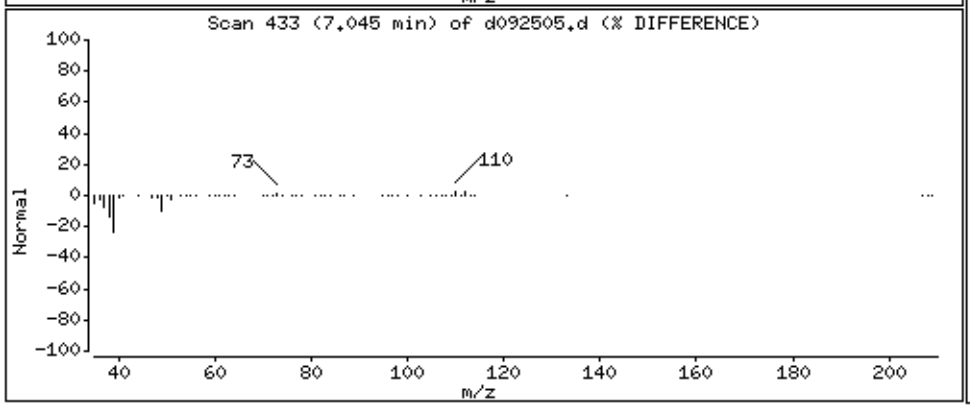
118 trans-1,3-Dichloropropene

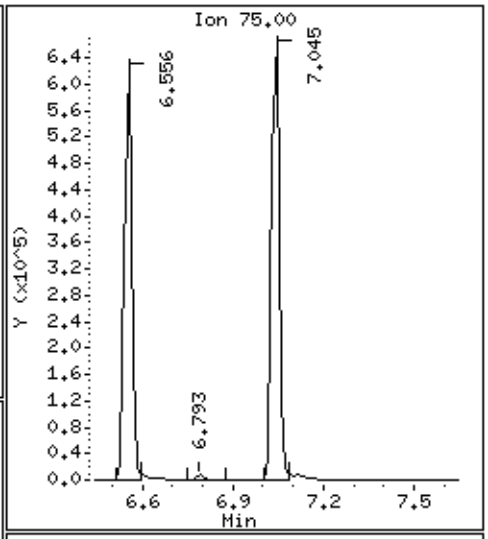
Concentration: 52.331 PPBV

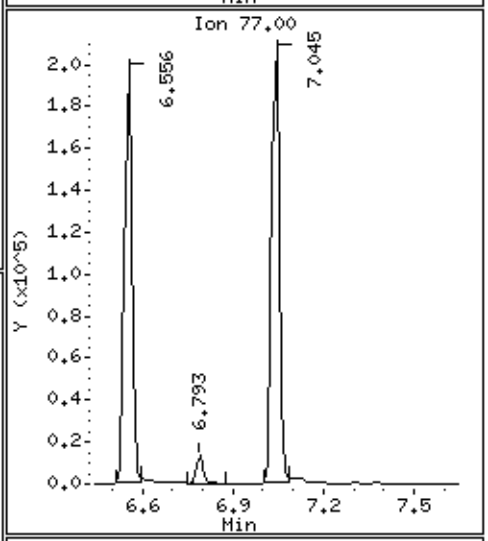


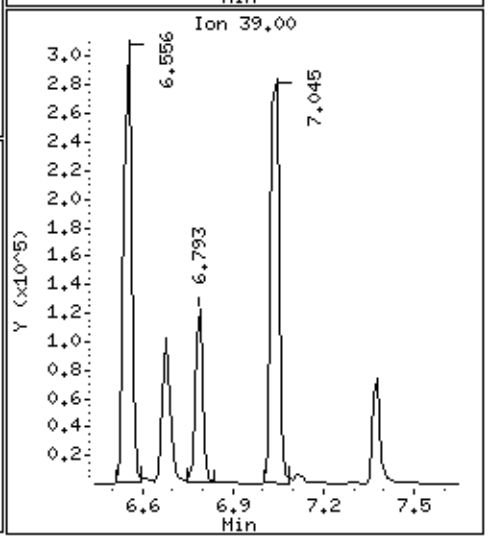












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

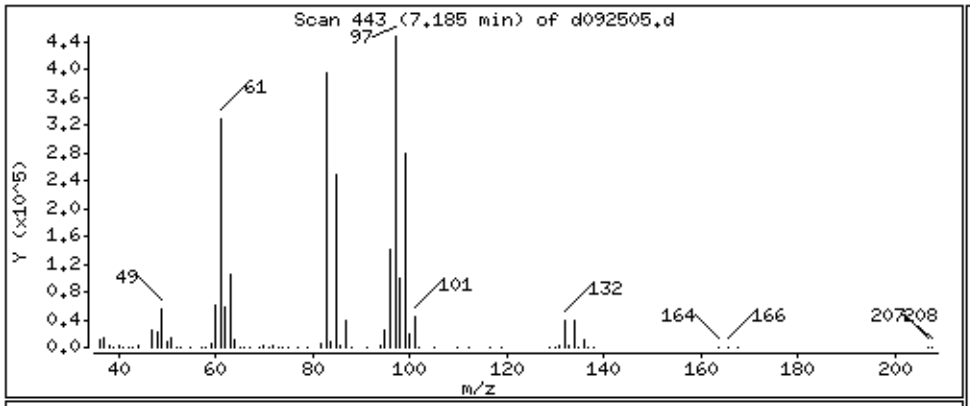
Operator: ccy

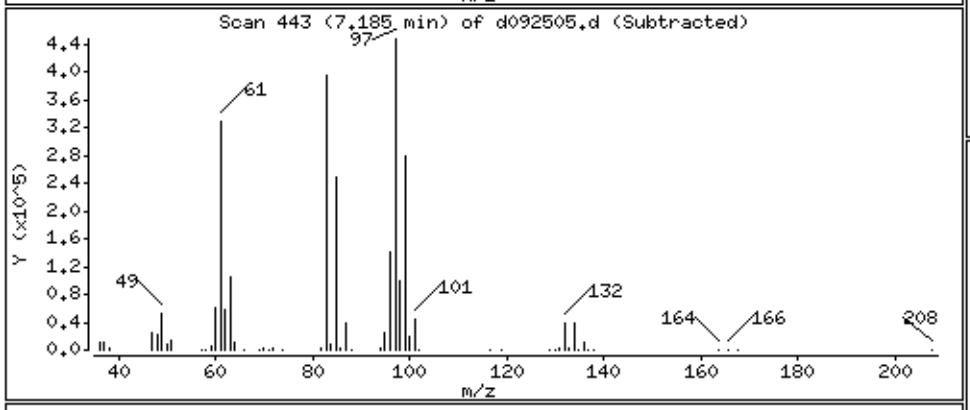
Column phase: RTx-624

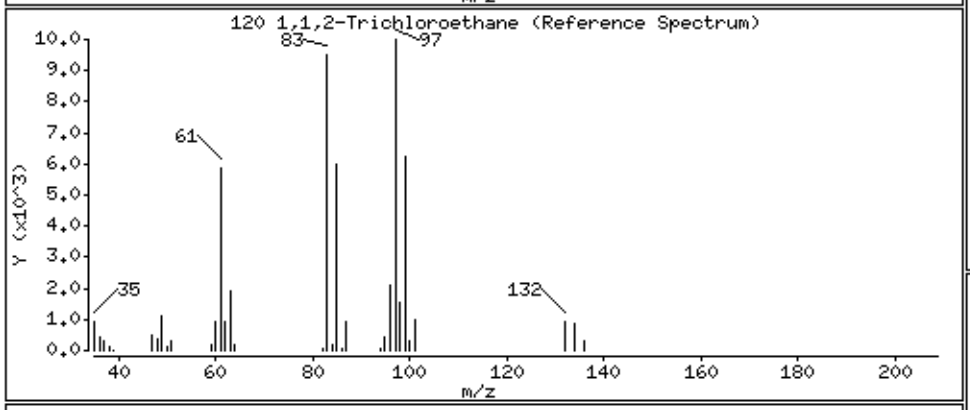
Column diameter: 0.53

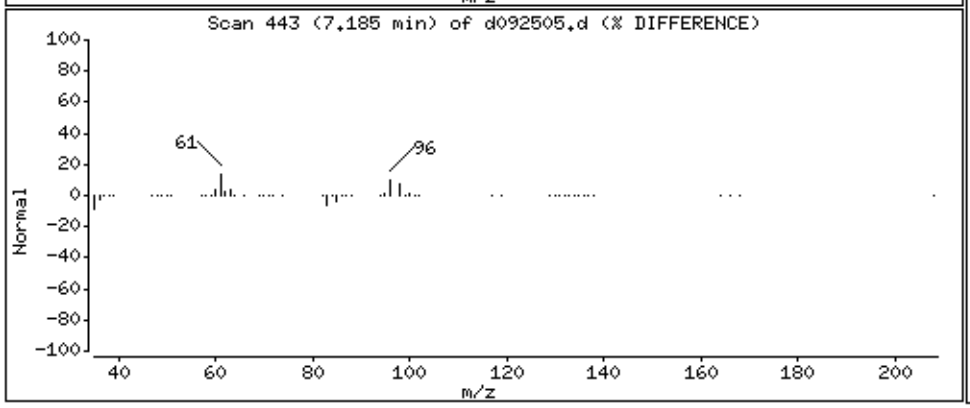
120 1,1,2-Trichloroethane

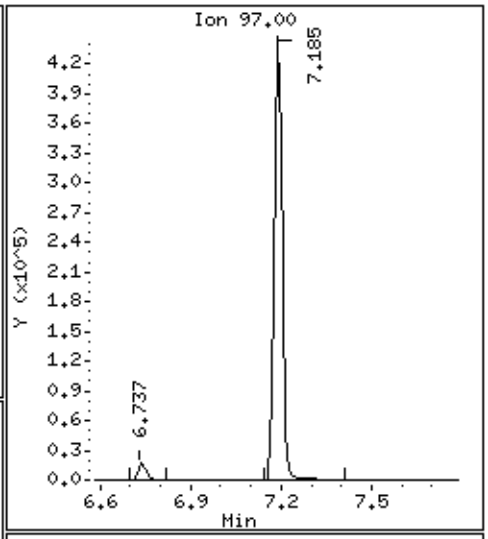
Concentration: 51.917 PPBV

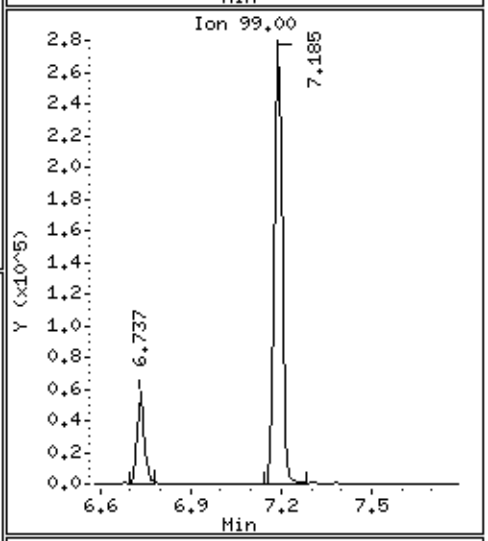


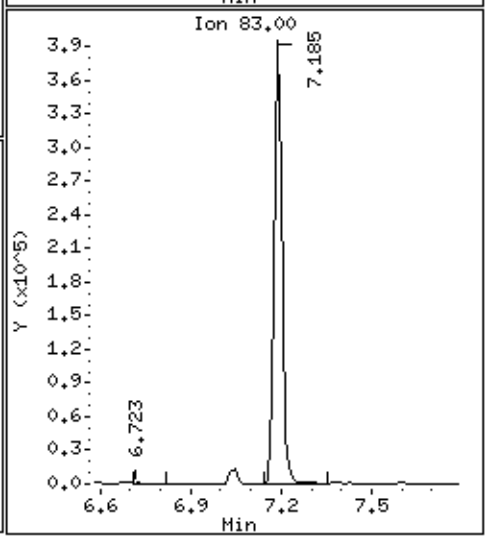












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

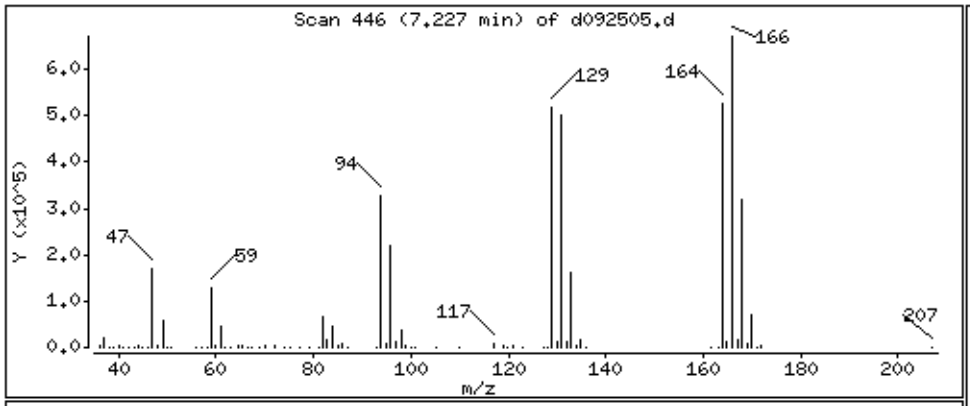
Operator: ccy

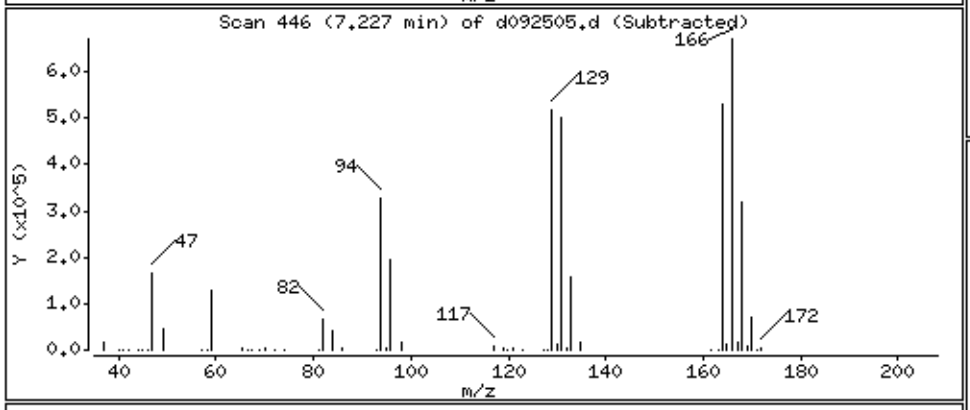
Column phase: RTx-624

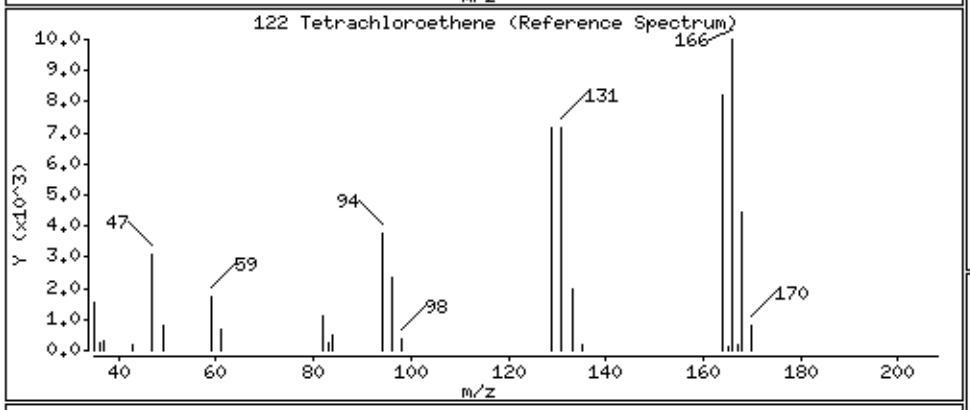
Column diameter: 0.53

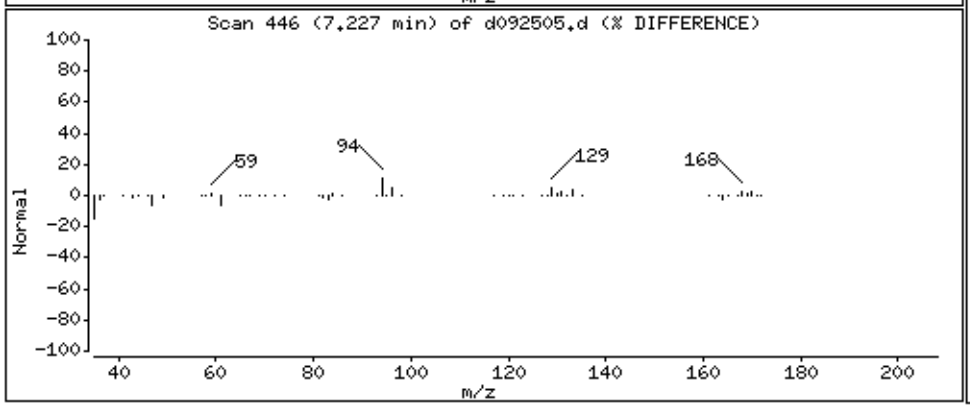
122 Tetrachloroethene

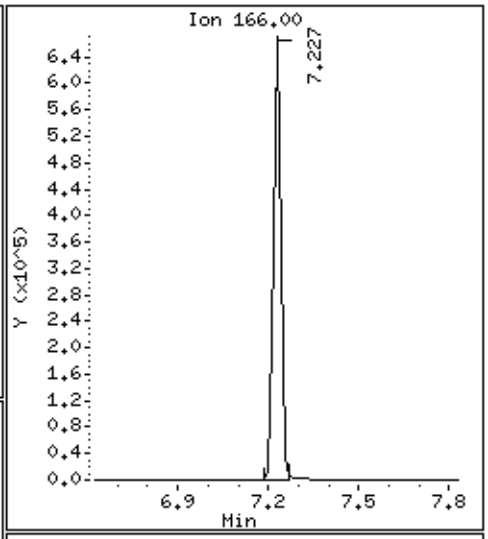
Concentration: 51.100 PPBV

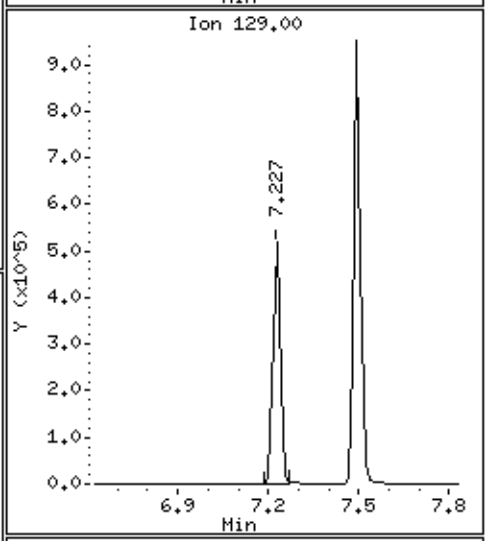


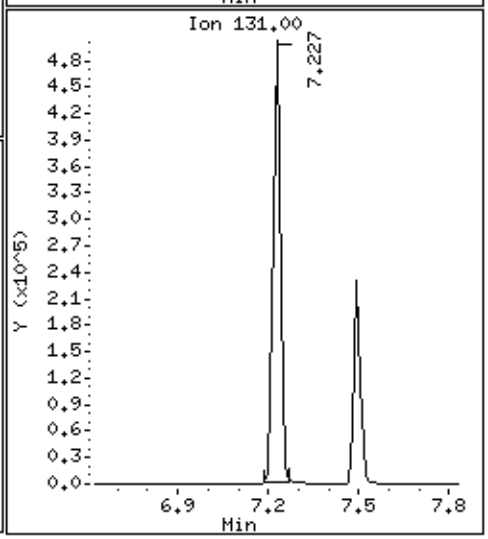












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

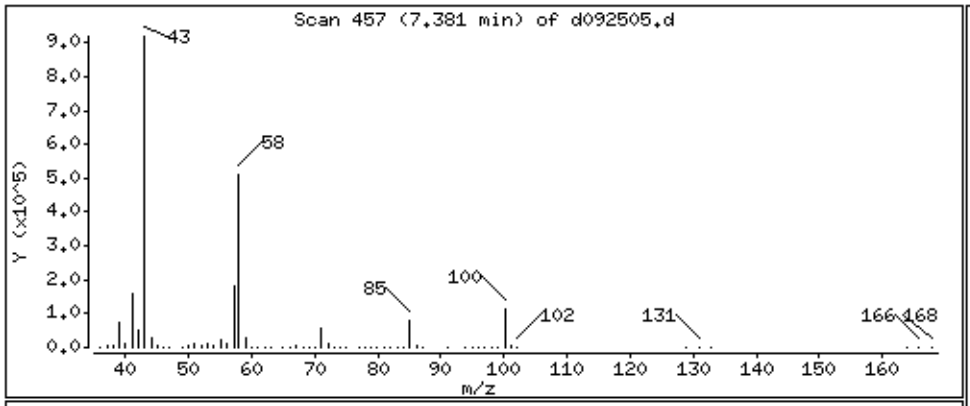
Operator: ccy

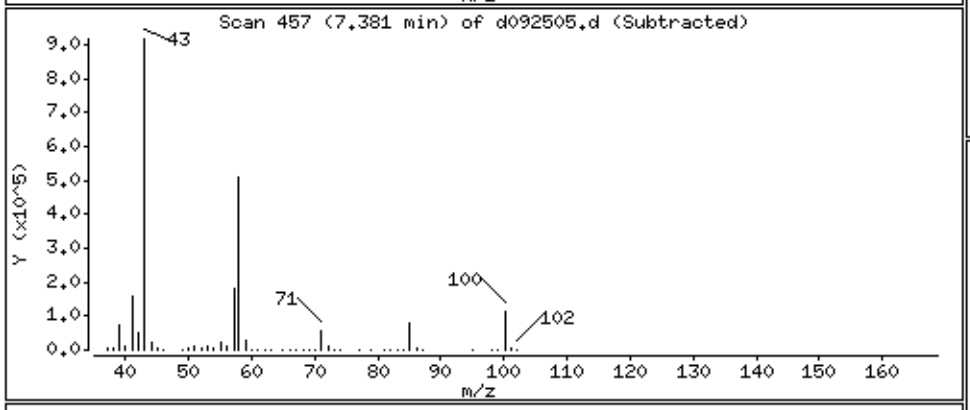
Column phase: RTx-624

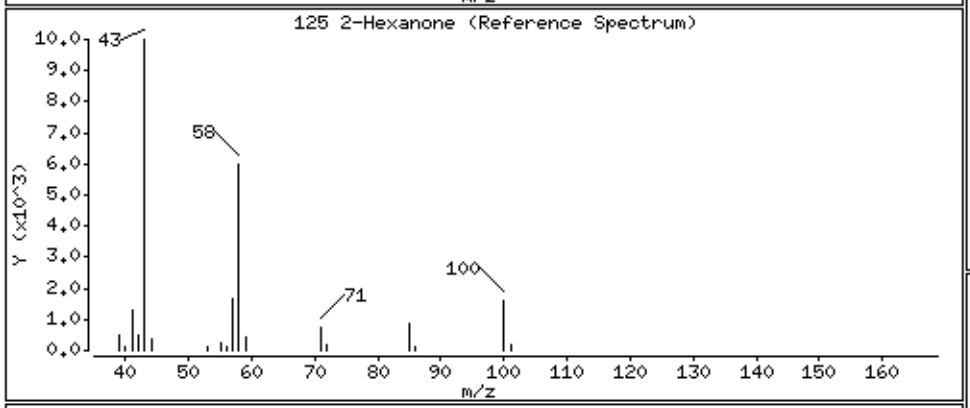
Column diameter: 0.53

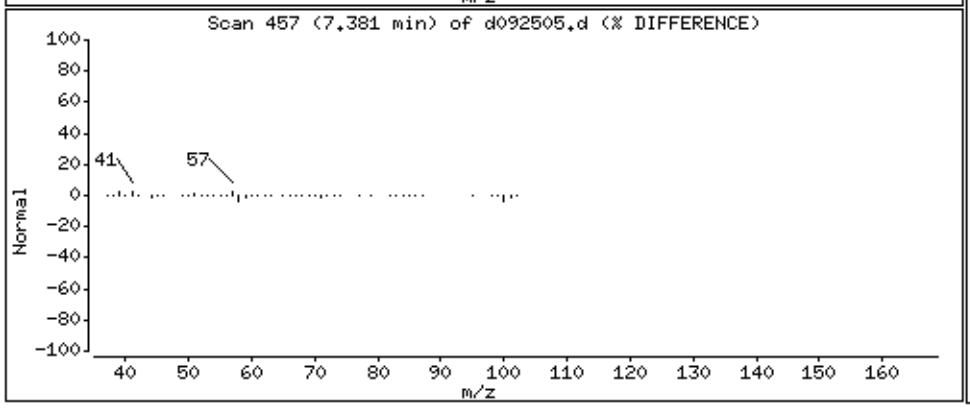
125 2-Hexanone

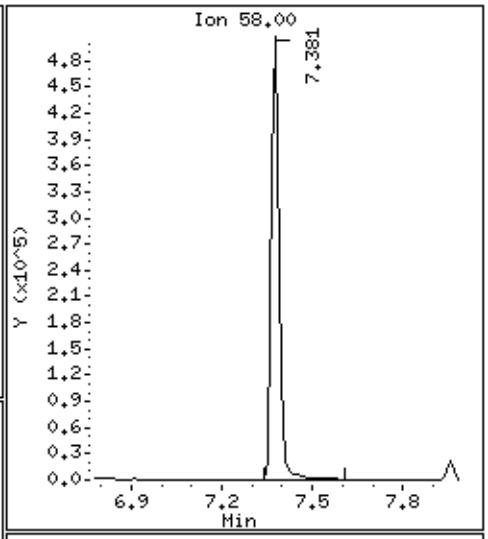
Concentration: 52.410 PPBV

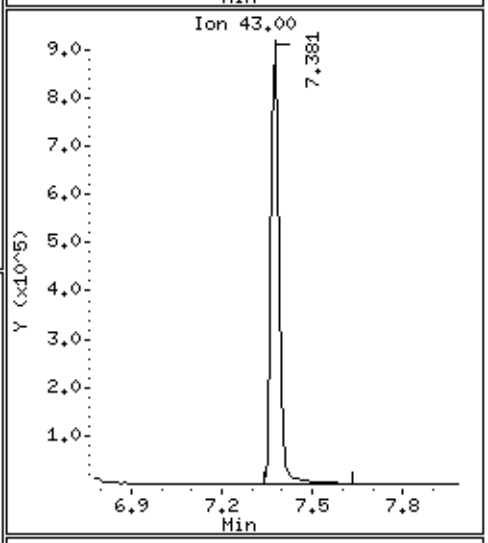


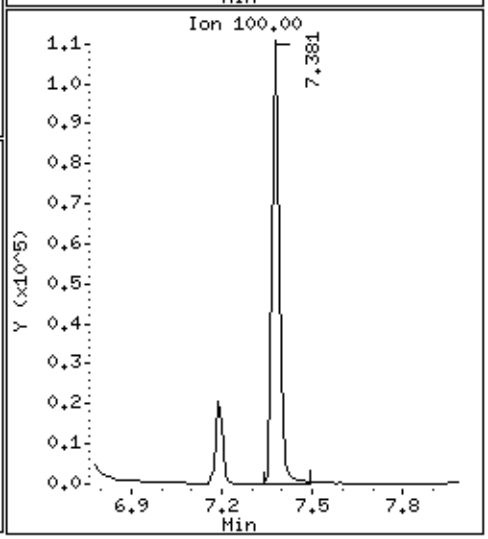












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

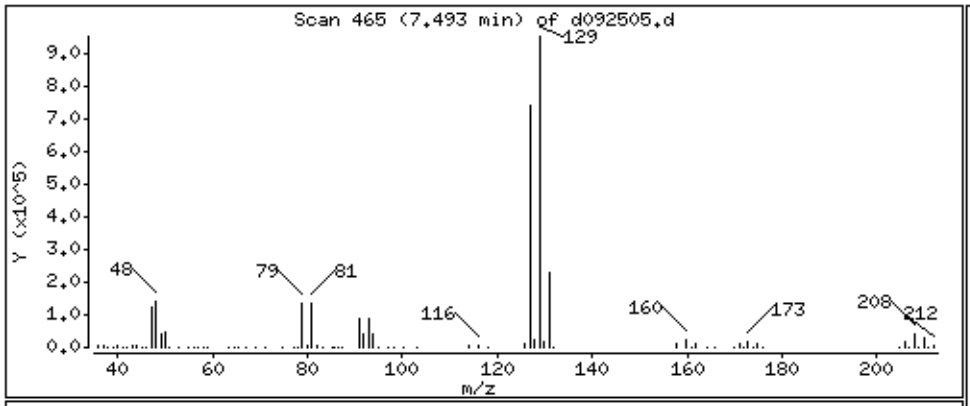
Operator: ccy

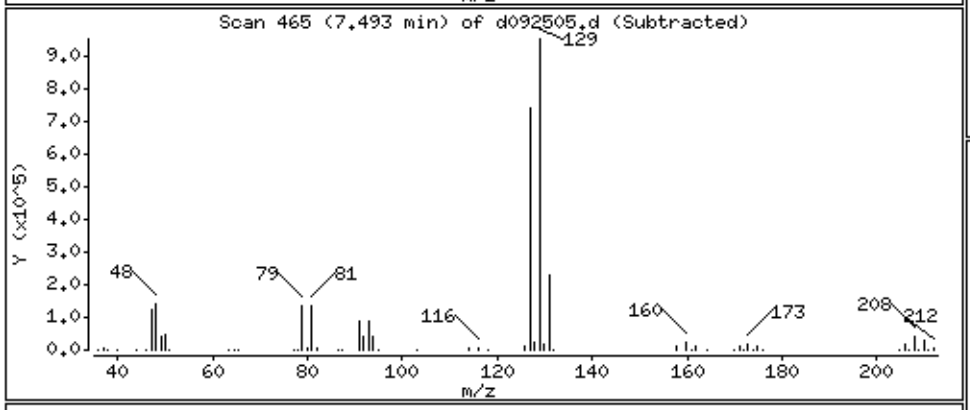
Column phase: RTx-624

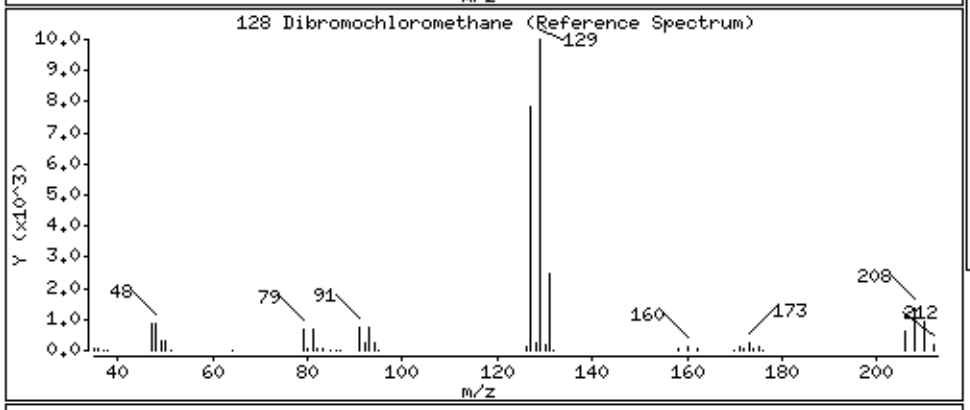
Column diameter: 0.53

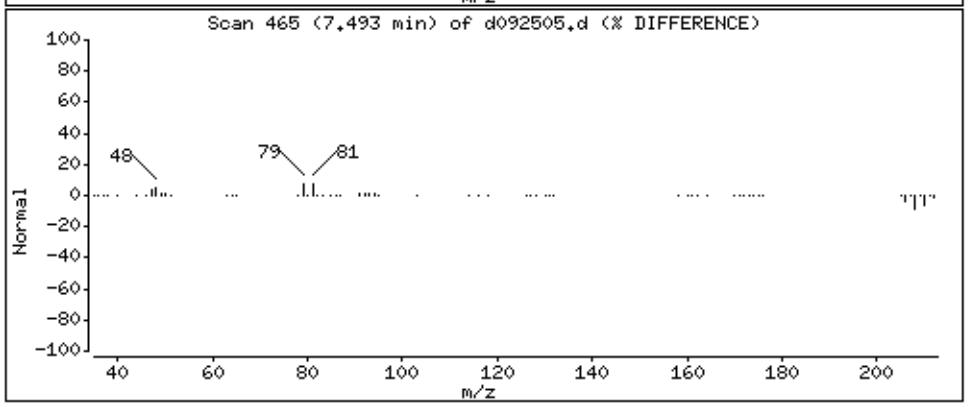
128 Dibromochloromethane

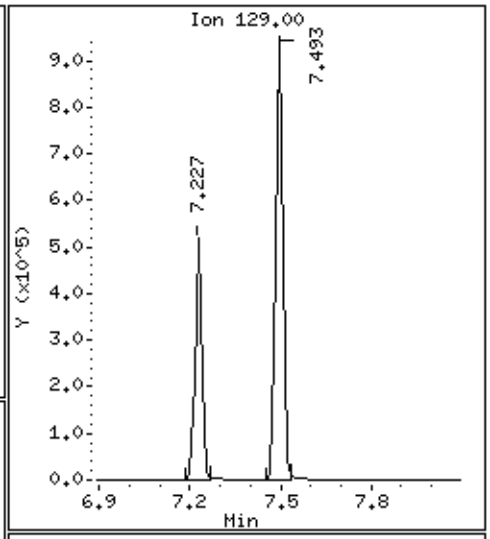
Concentration: 53.816 PPBV

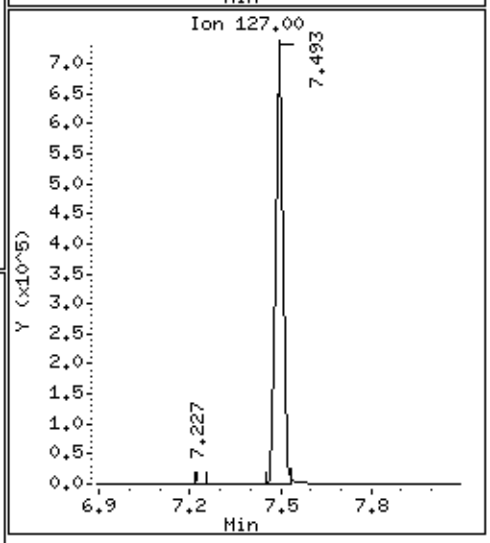












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

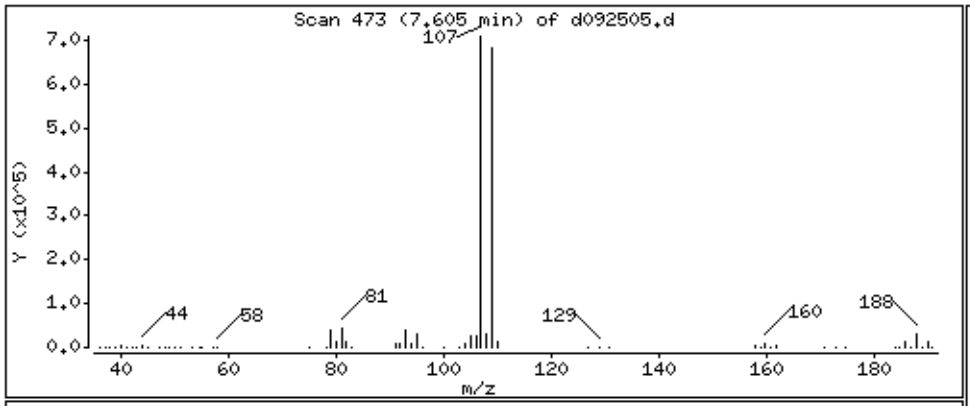
Operator: ccy

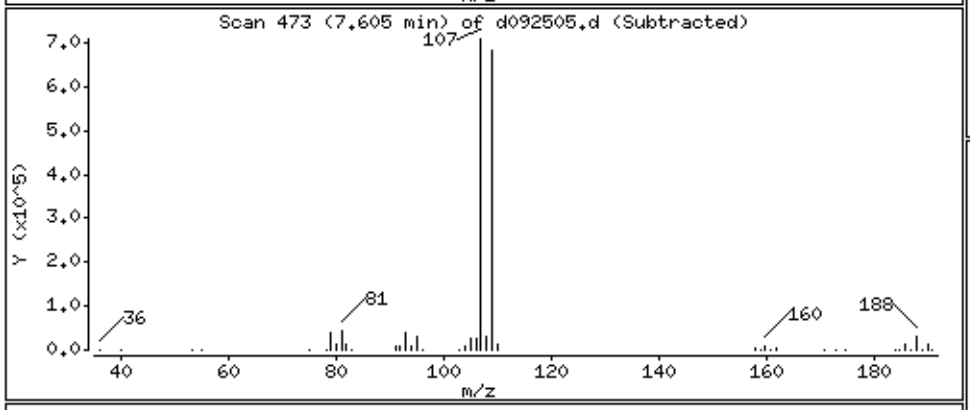
Column phase: RTx-624

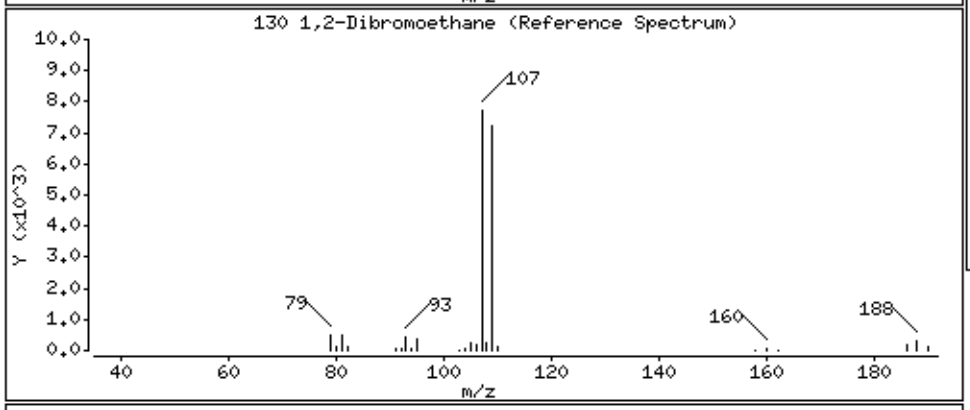
Column diameter: 0.53

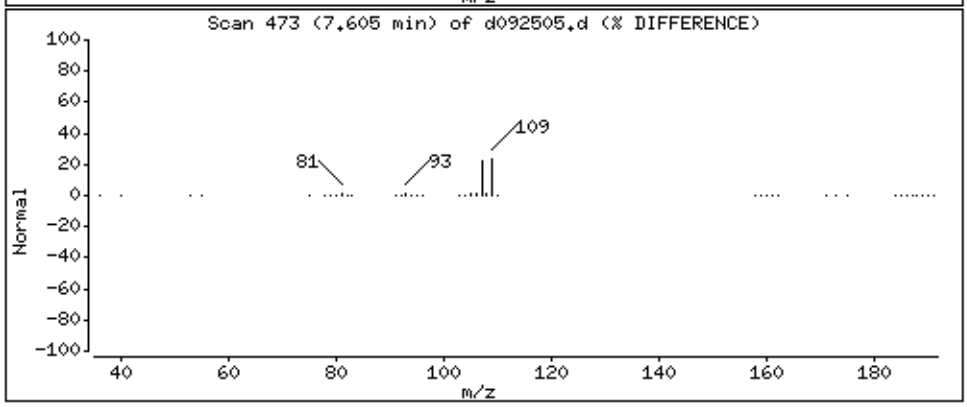
130 1,2-Dibromoethane

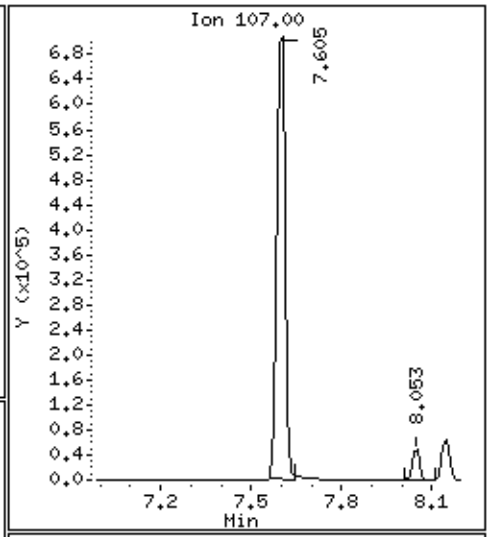
Concentration: 54.244 PPBV

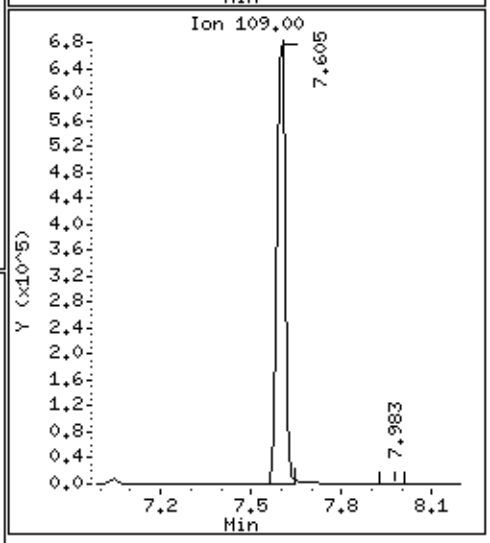












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

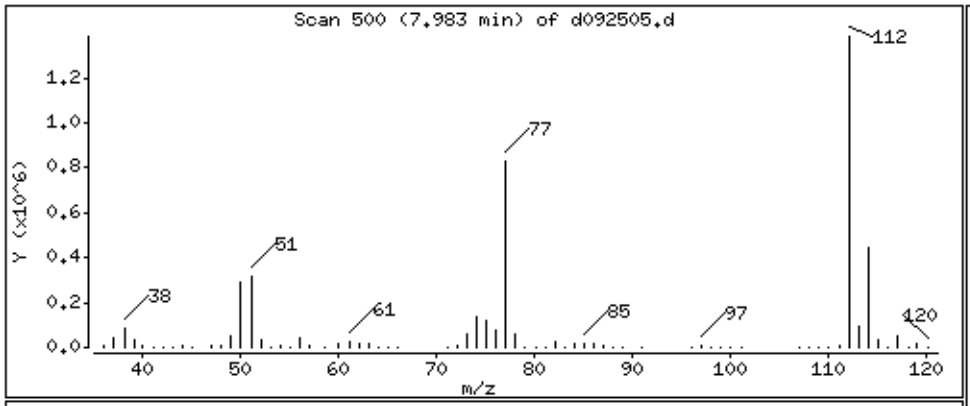
Operator: ccy

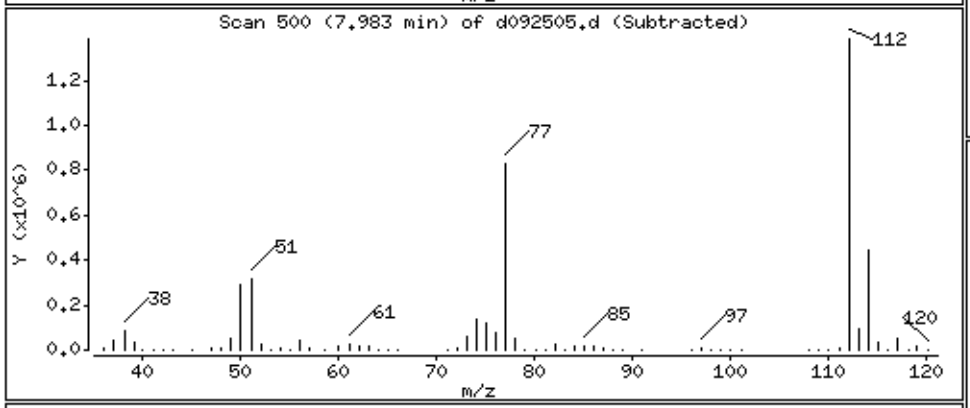
Column phase: RTx-624

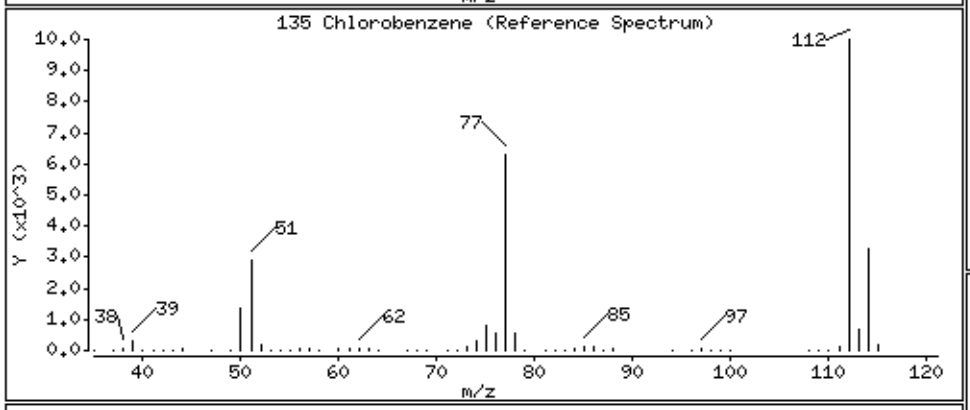
Column diameter: 0.53

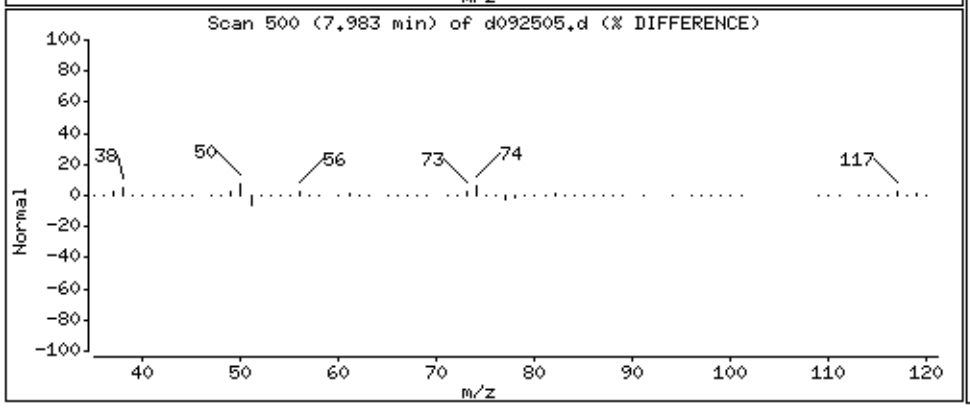
135 Chlorobenzene

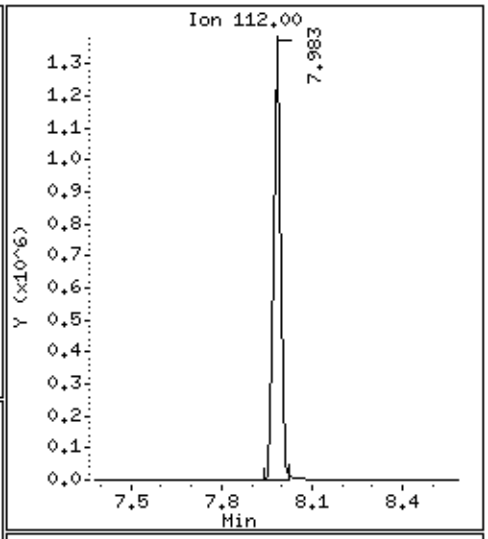
Concentration: 47.048 PPBV

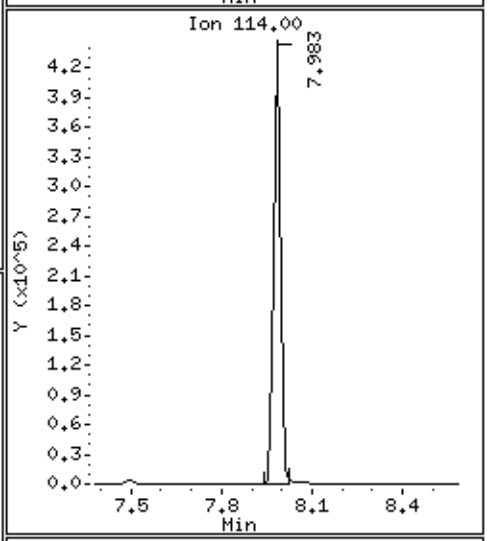


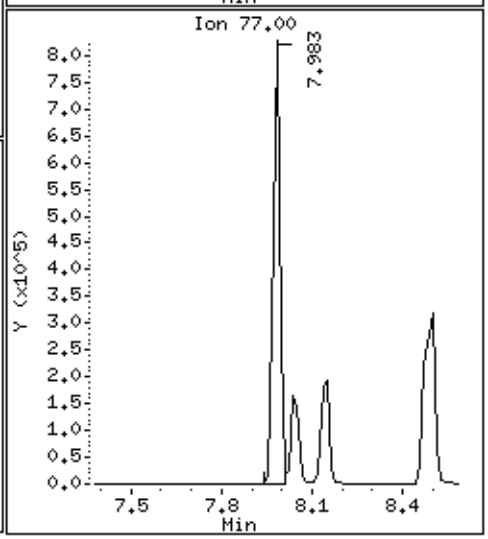












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

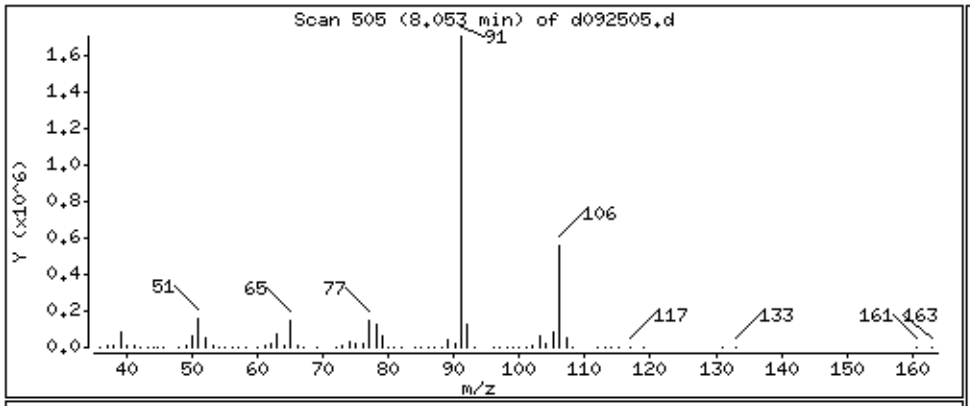
Operator: ccy

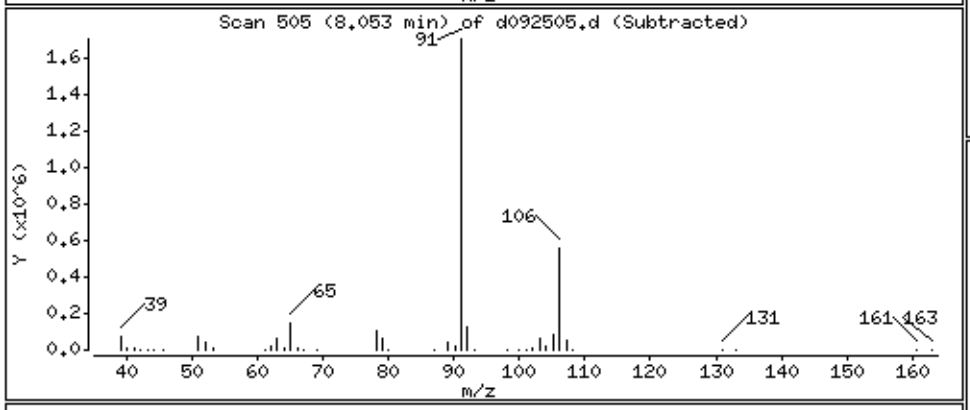
Column phase: RTx-624

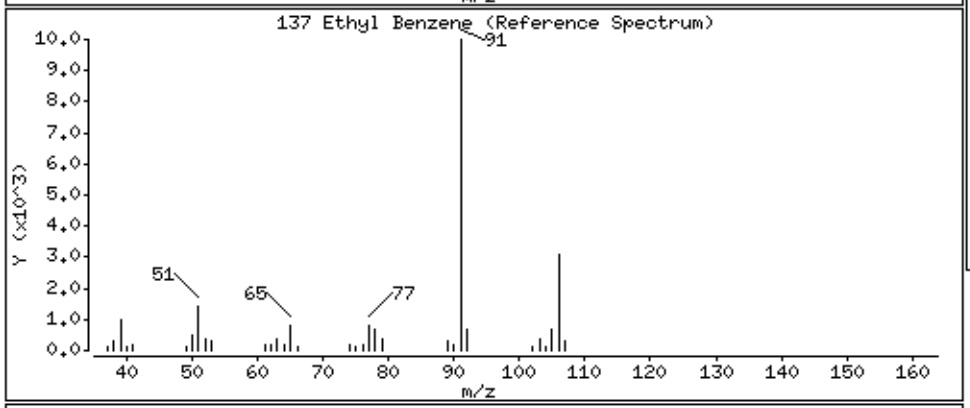
Column diameter: 0.53

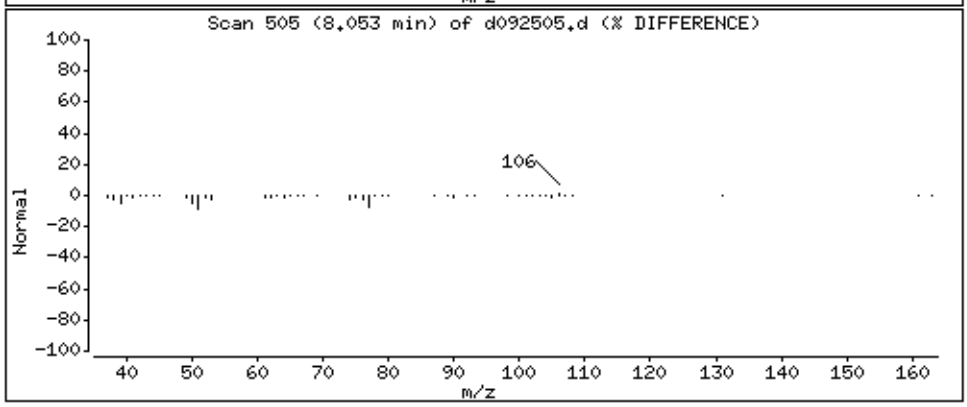
137 Ethyl Benzene

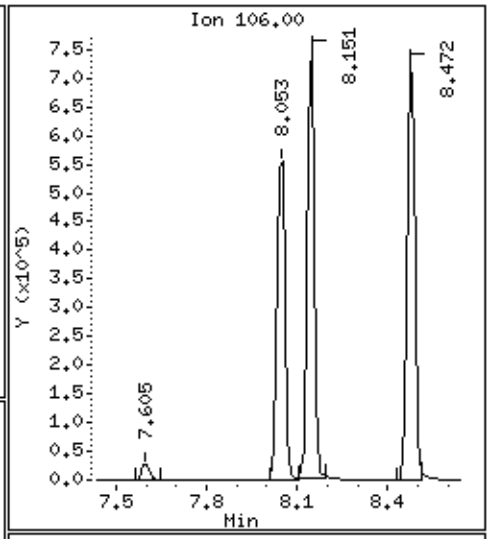
Concentration: 52.219 PPBV

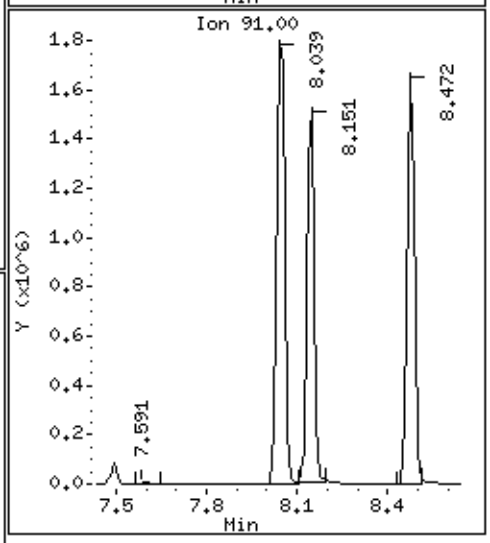












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

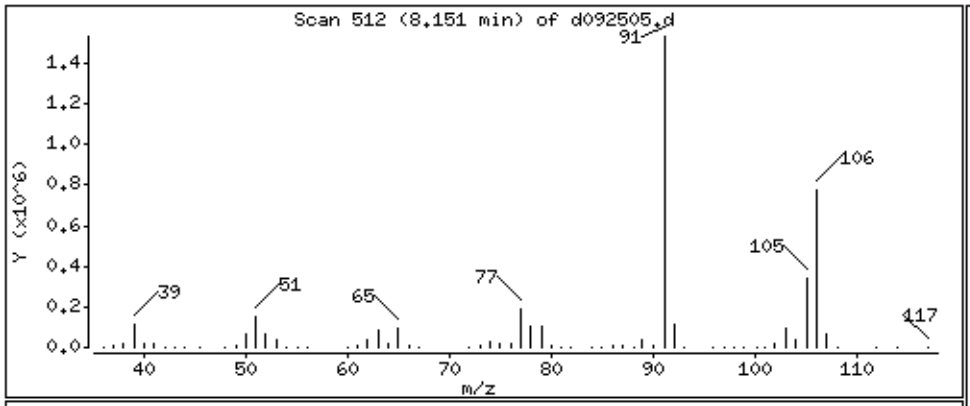
Operator: ccy

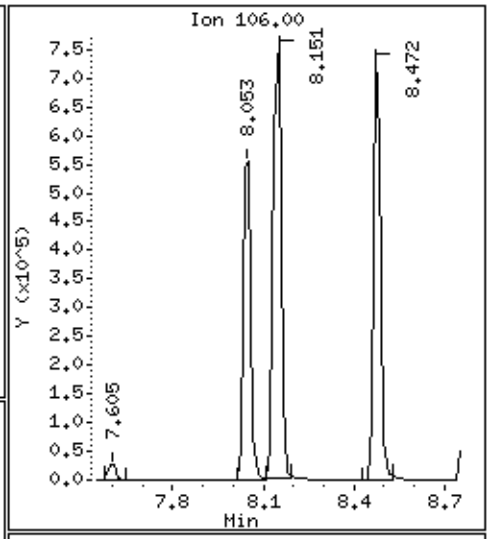
Column phase: RTx-624

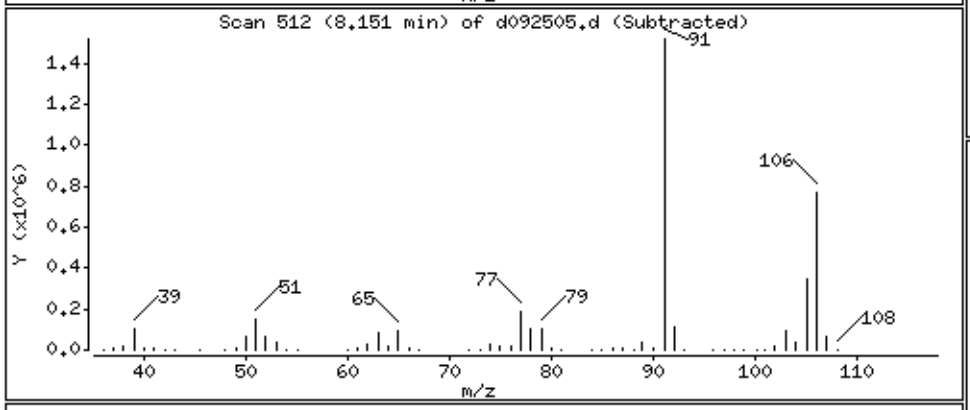
Column diameter: 0.53

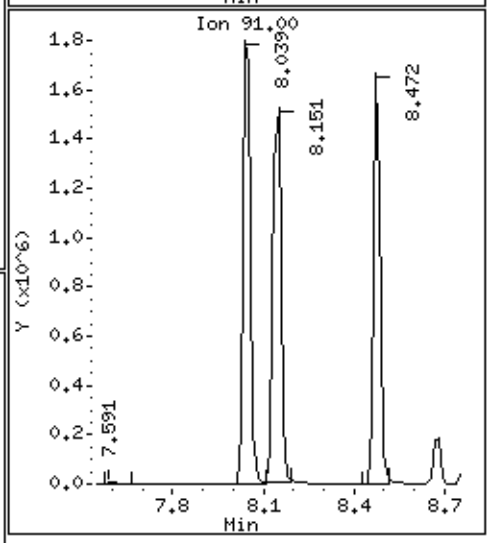
140 m,p-Xylene

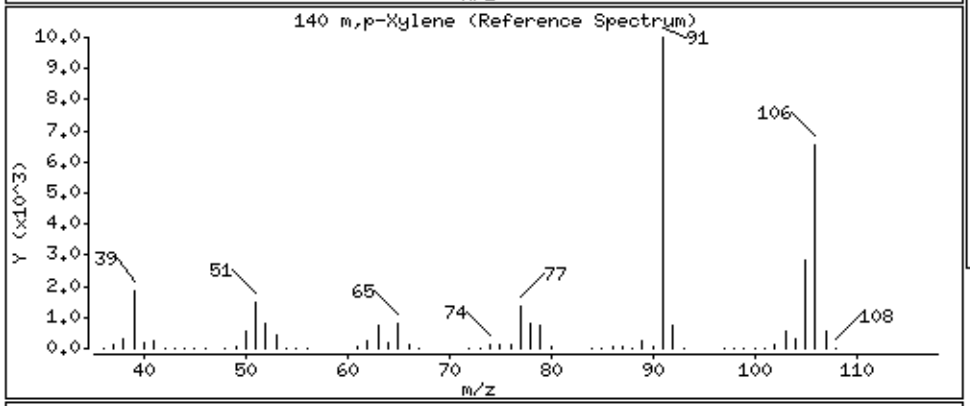
Concentration: 51.269 PPBV

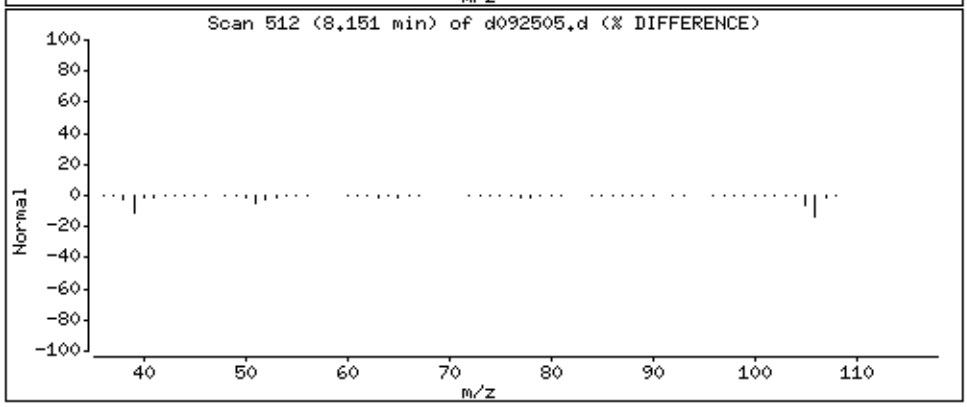












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

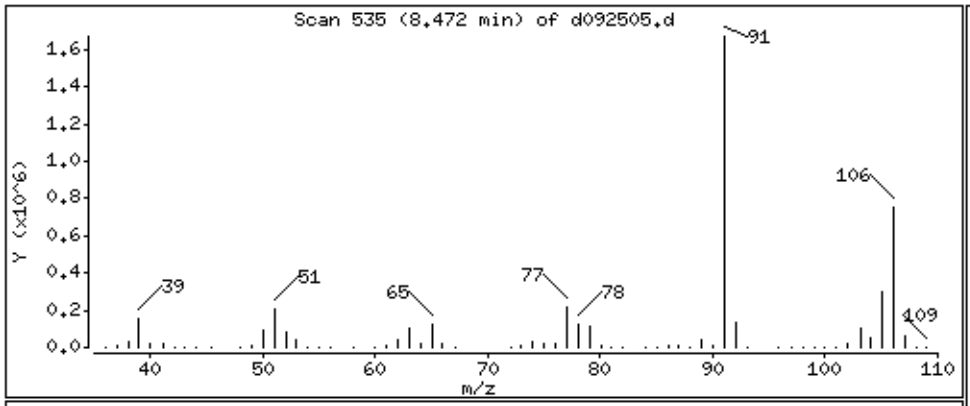
Operator: ccy

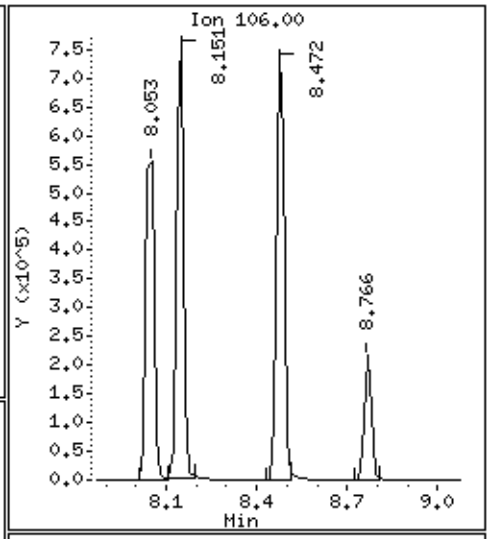
Column phase: RTx-624

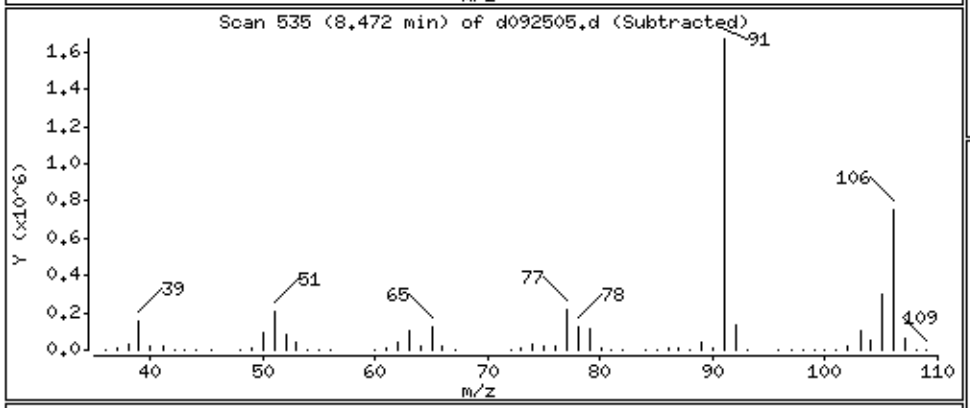
Column diameter: 0.53

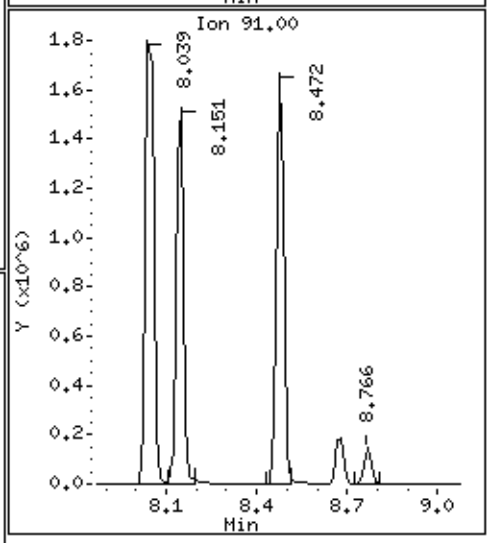
141 o-Xylene

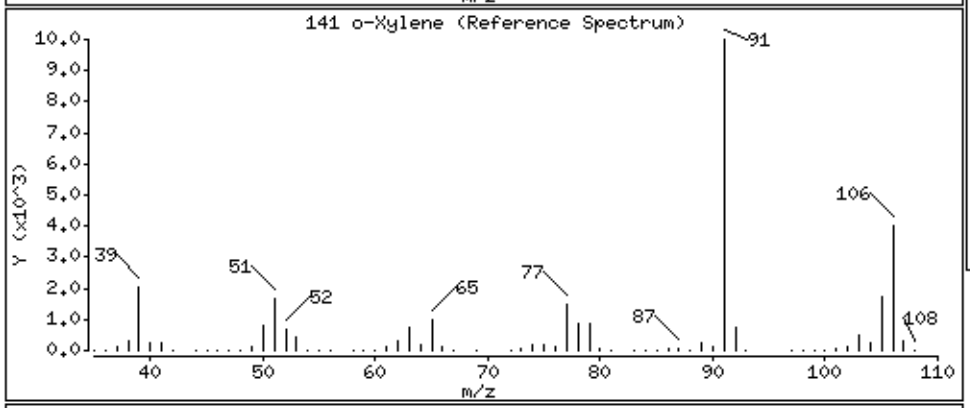
Concentration: 51.785 PPBV

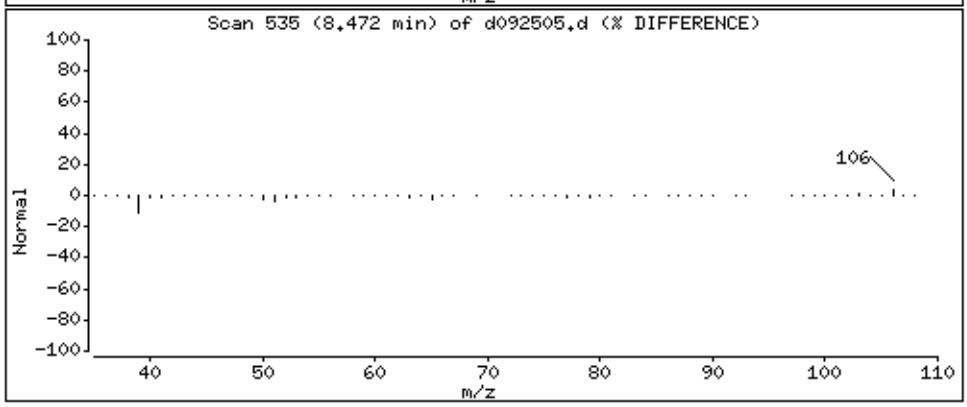












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

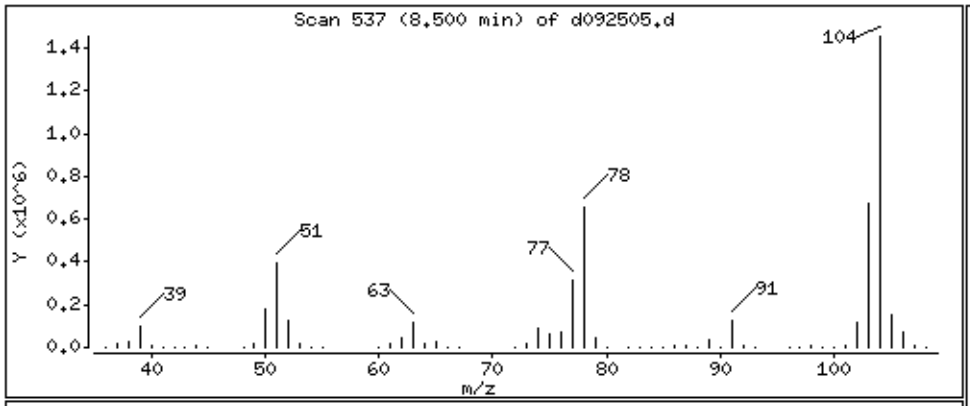
Operator: ccy

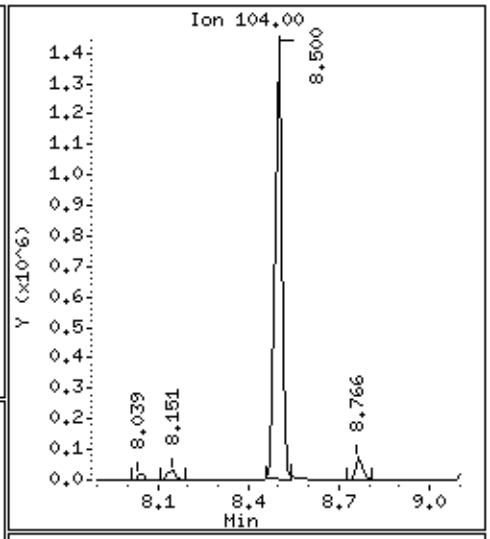
Column phase: RTx-624

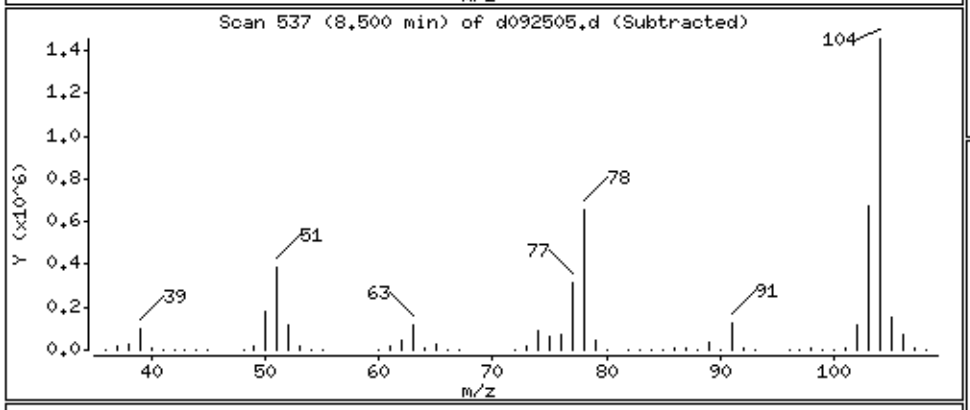
Column diameter: 0.53

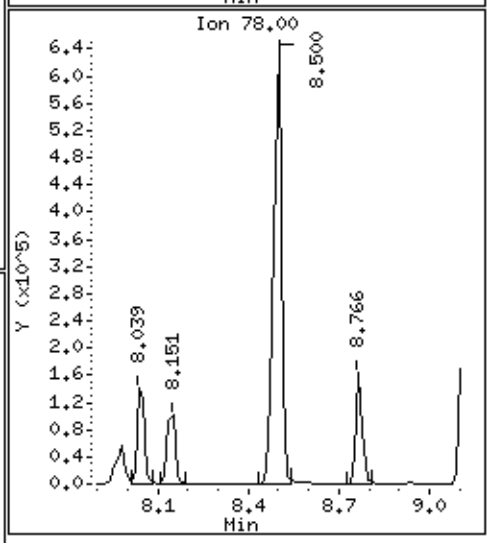
142 Styrene

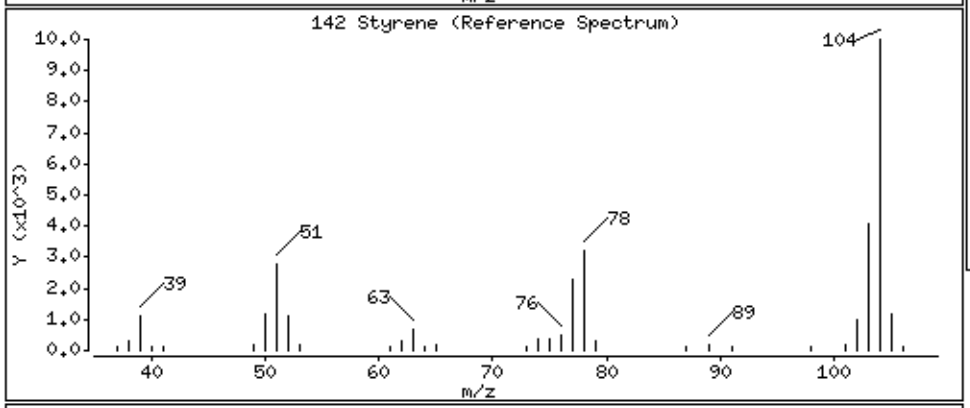
Concentration: 52.847 PPBV

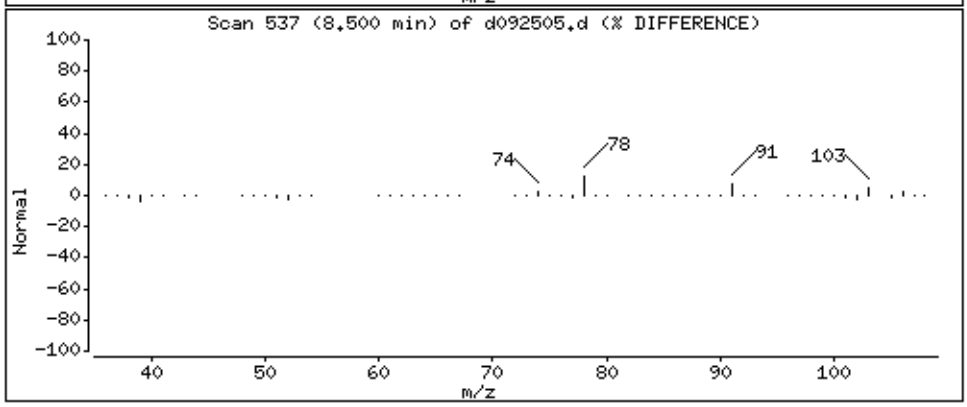












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

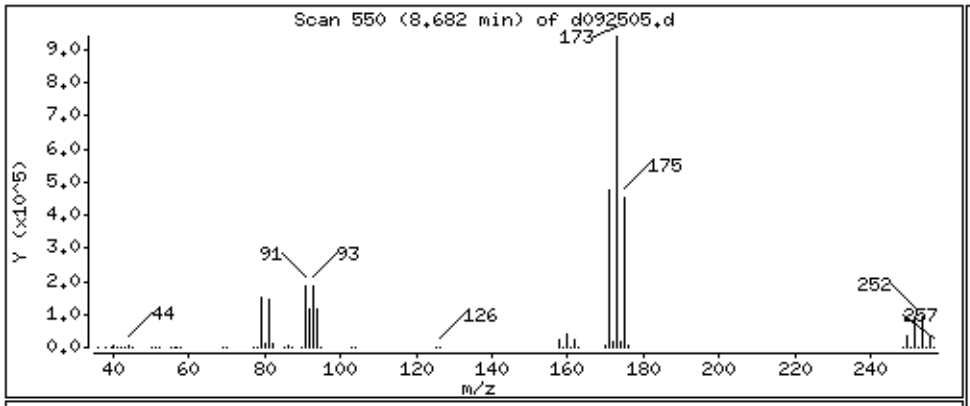
Operator: ccy

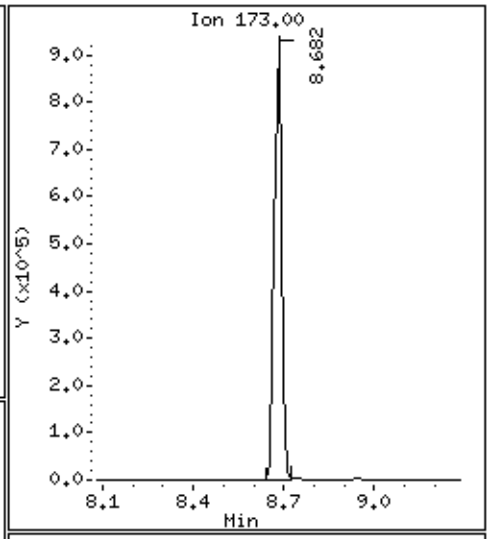
Column phase: RTx-624

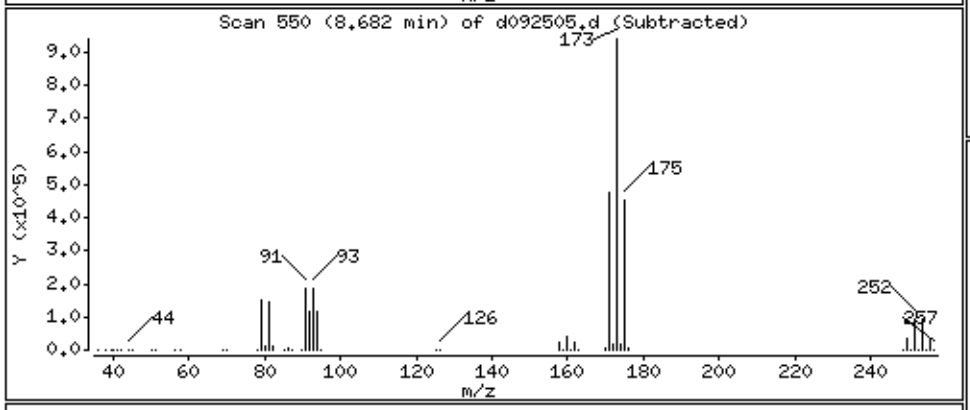
Column diameter: 0.53

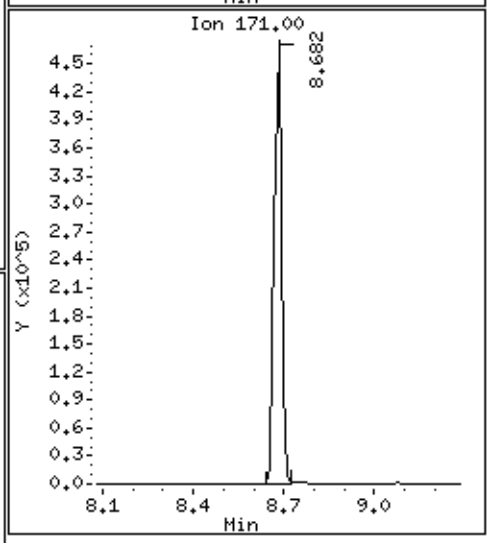
145 Bromoform

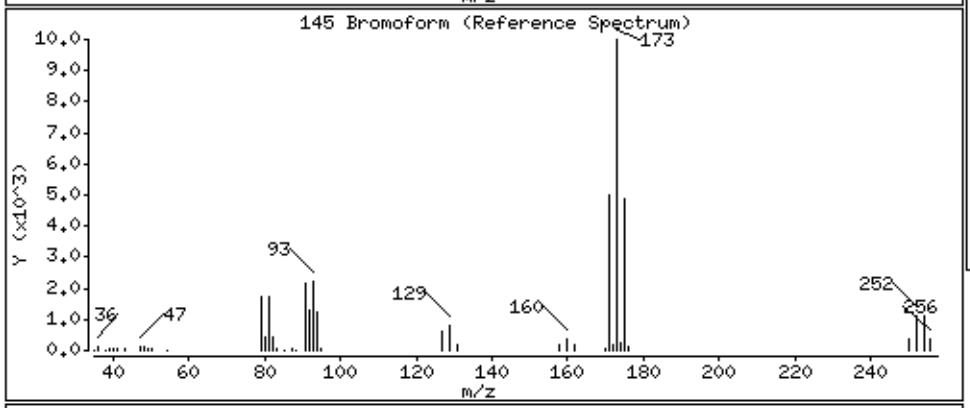
Concentration: 54.762 PPBV

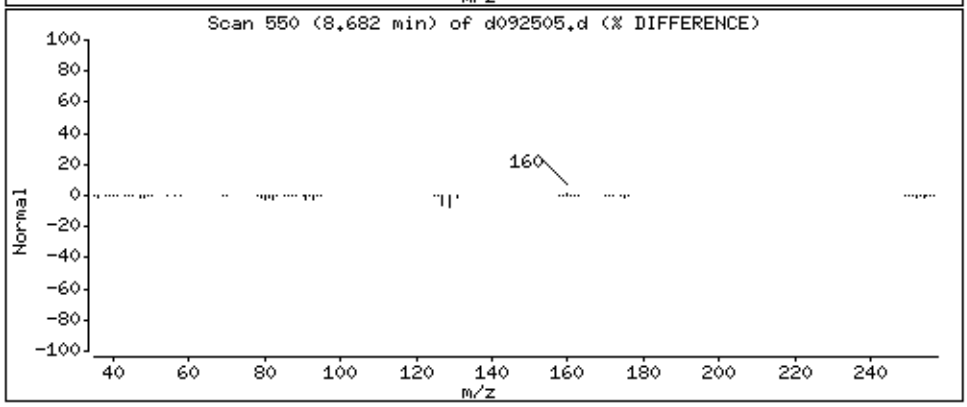












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

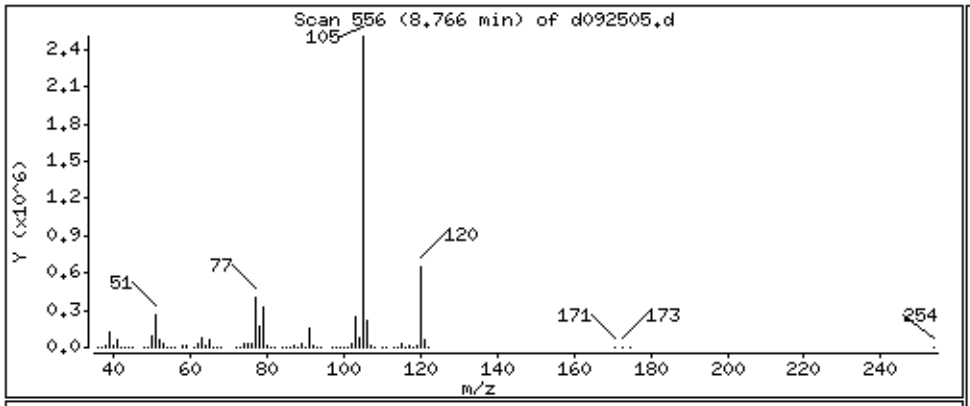
Operator: ccy

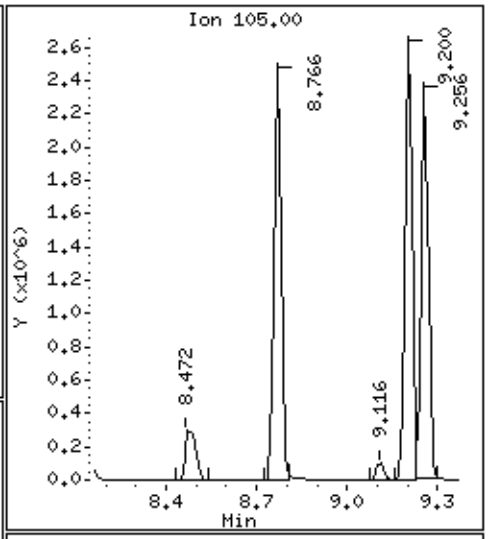
Column phase: RTx-624

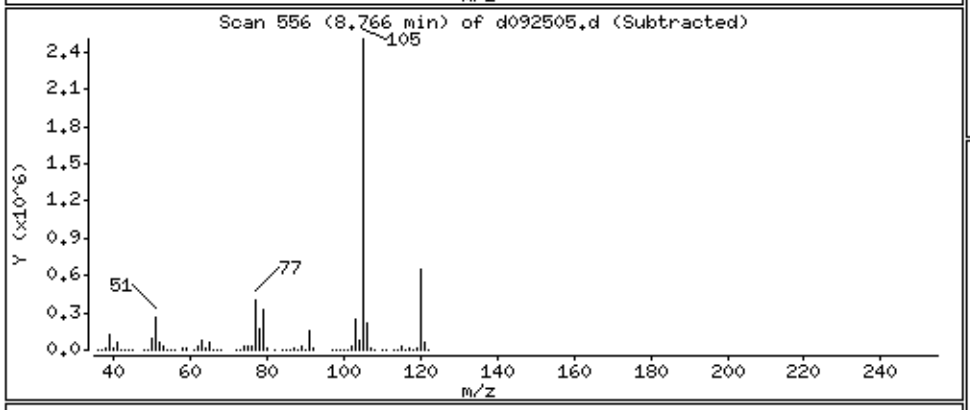
Column diameter: 0.53

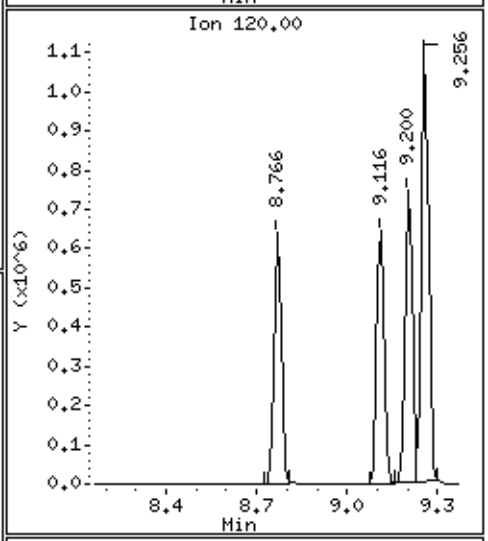
147 Cumene

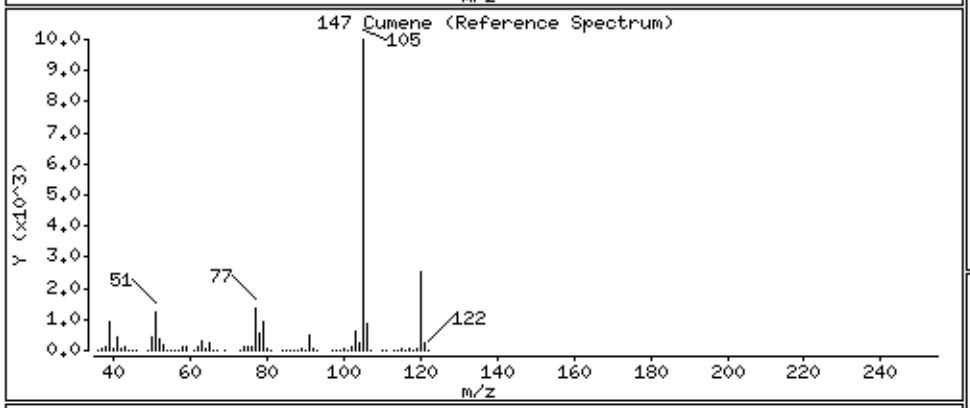
Concentration: 52.528 PPBV

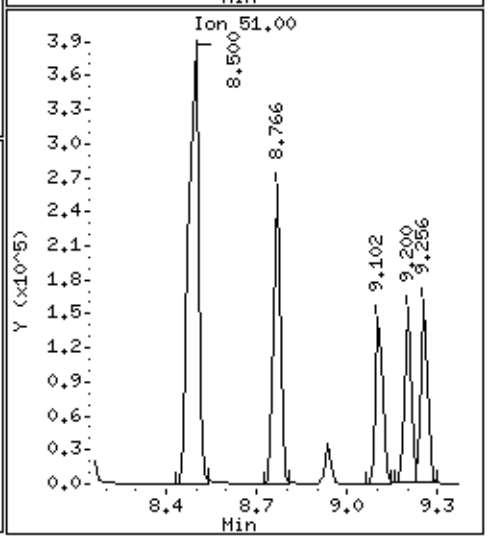


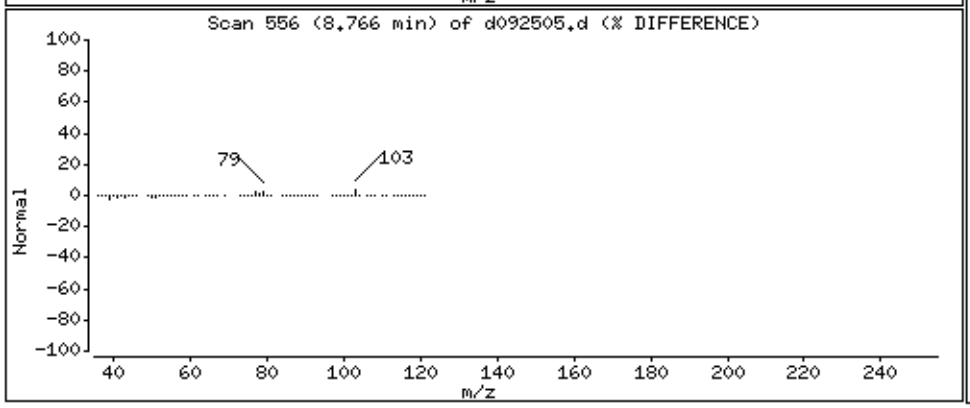












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

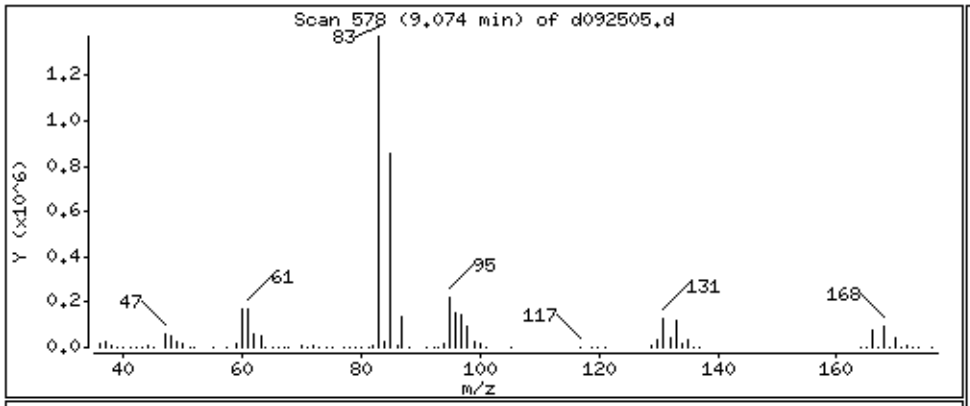
Operator: ccy

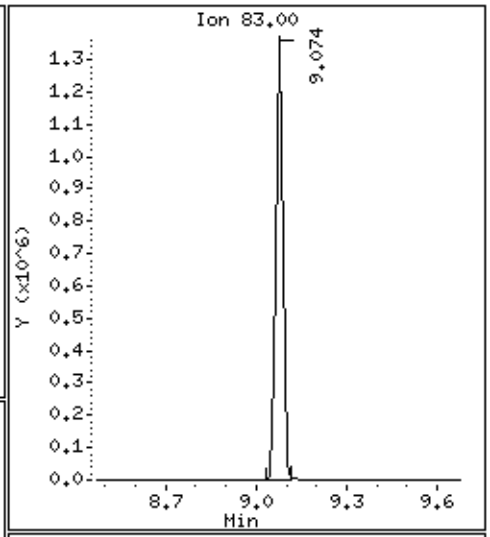
Column phase: RTx-624

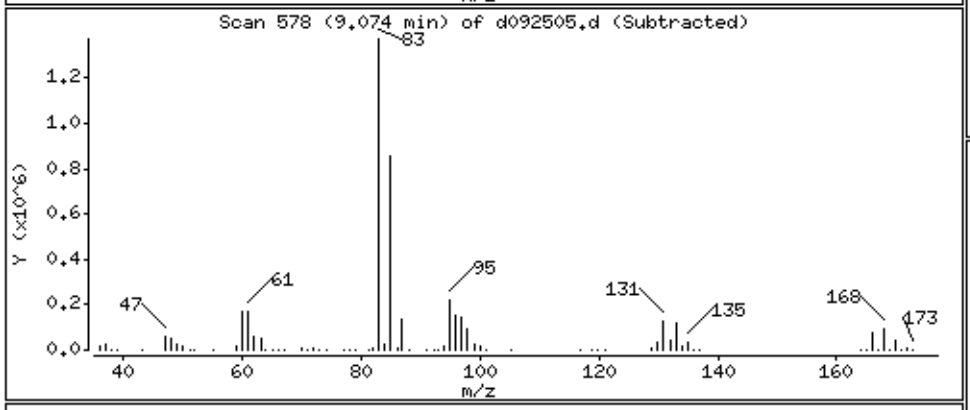
Column diameter: 0.53

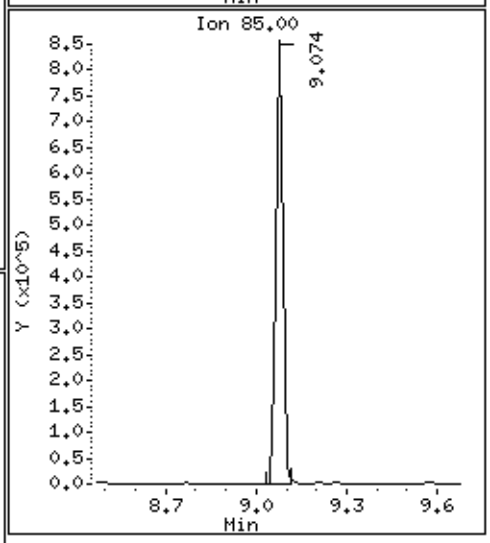
151 1,1,2,2-Tetrachloroethane

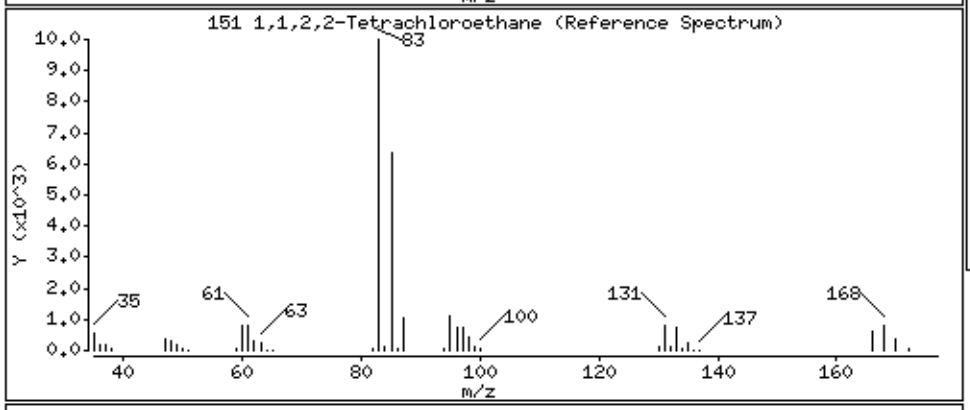
Concentration: 52.603 PPBV

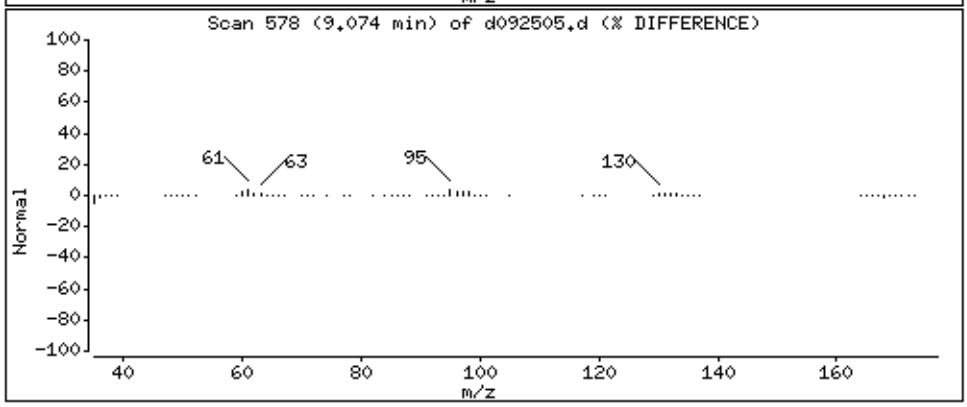












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

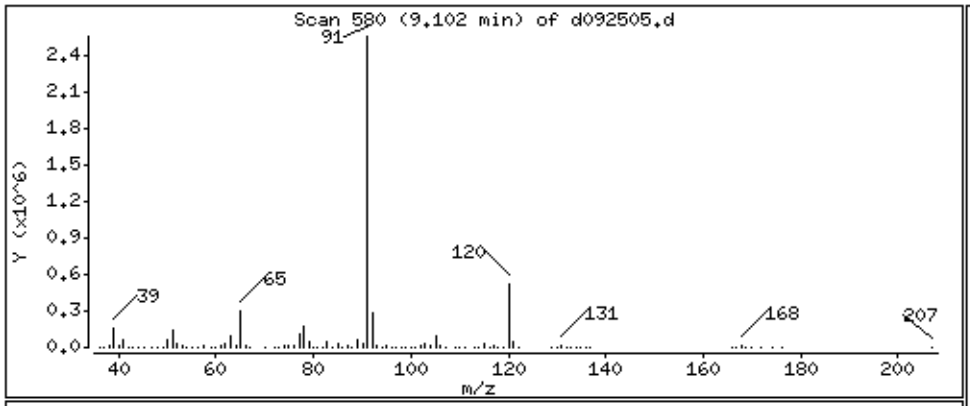
Operator: ccy

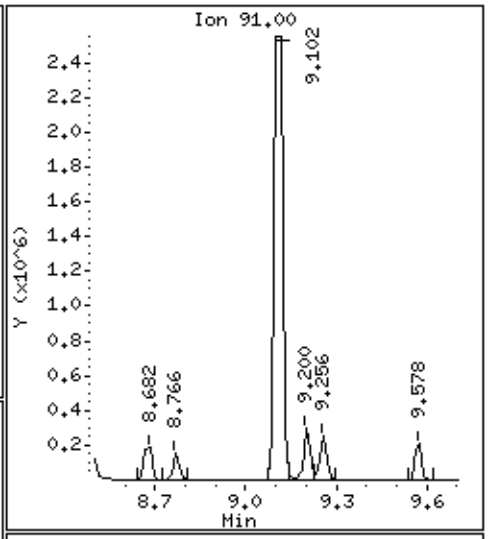
Column phase: RTx-624

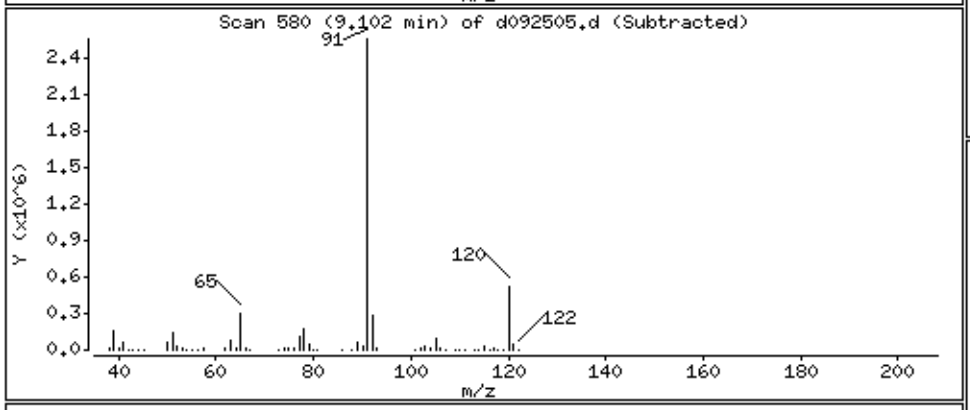
Column diameter: 0.53

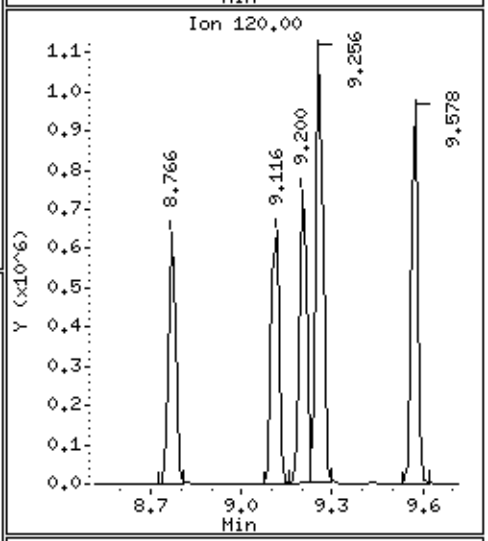
153 Propylbenzene

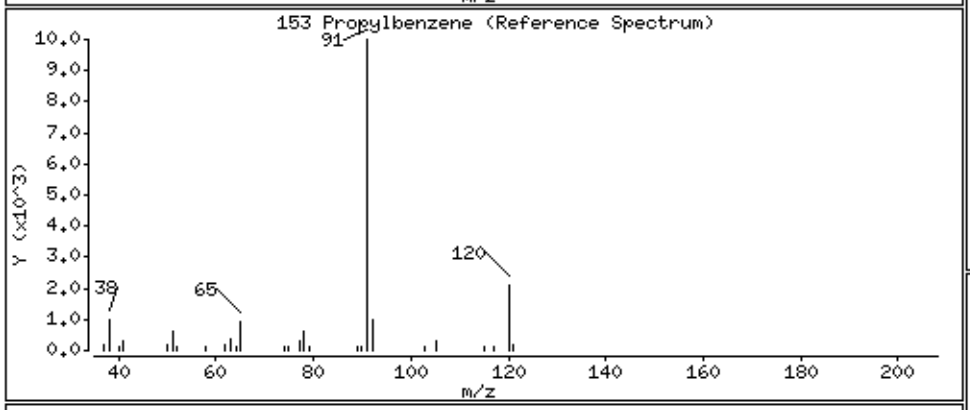
Concentration: 51.279 PPBV

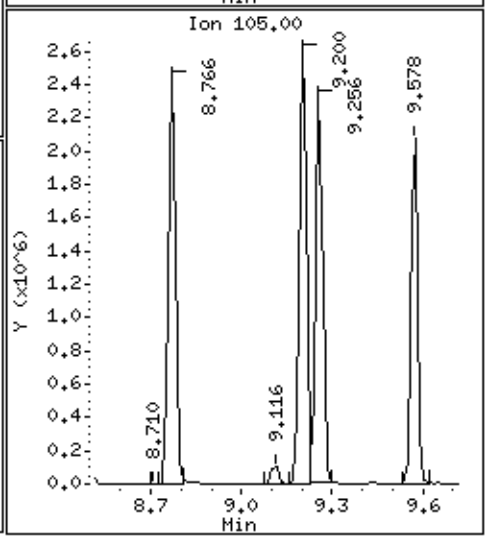


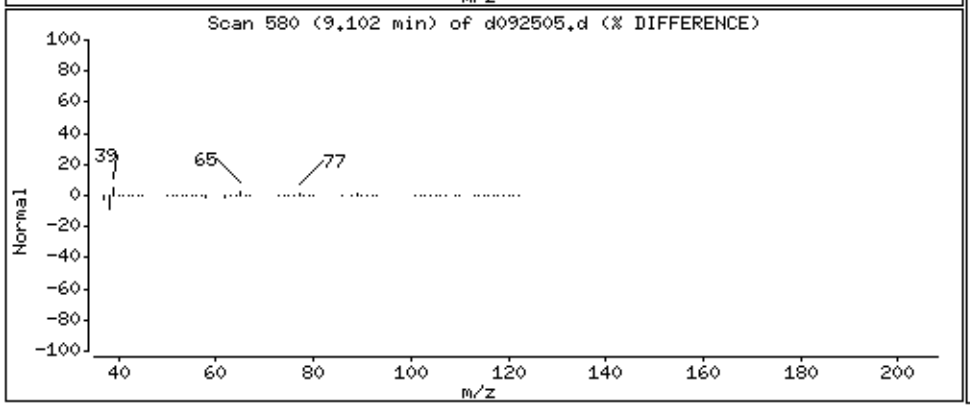












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

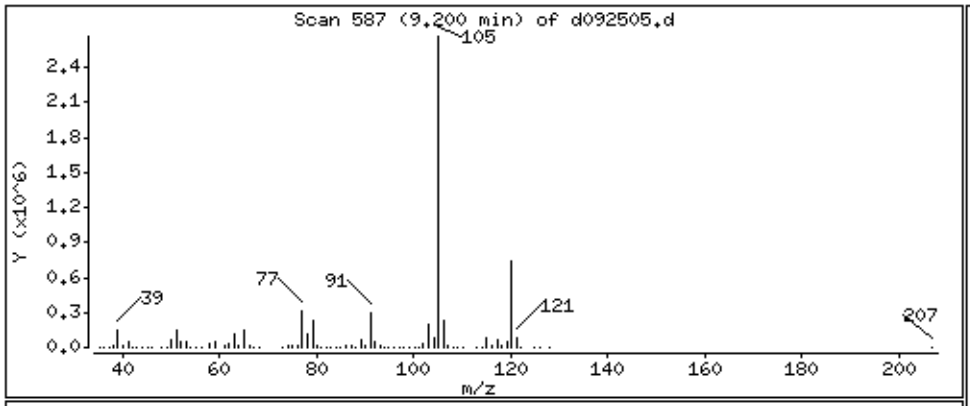
Operator: ccy

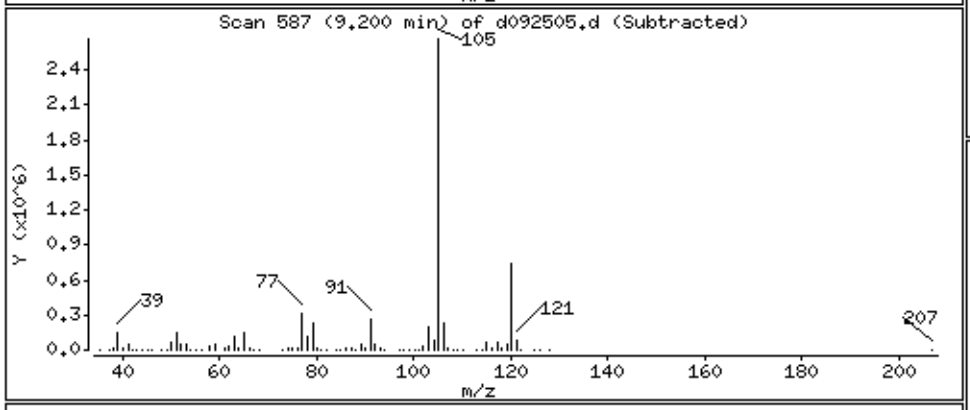
Column phase: RTx-624

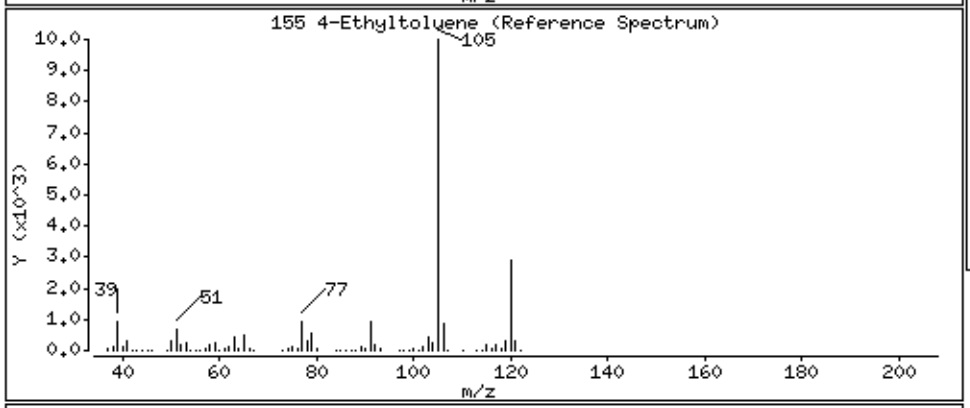
Column diameter: 0.53

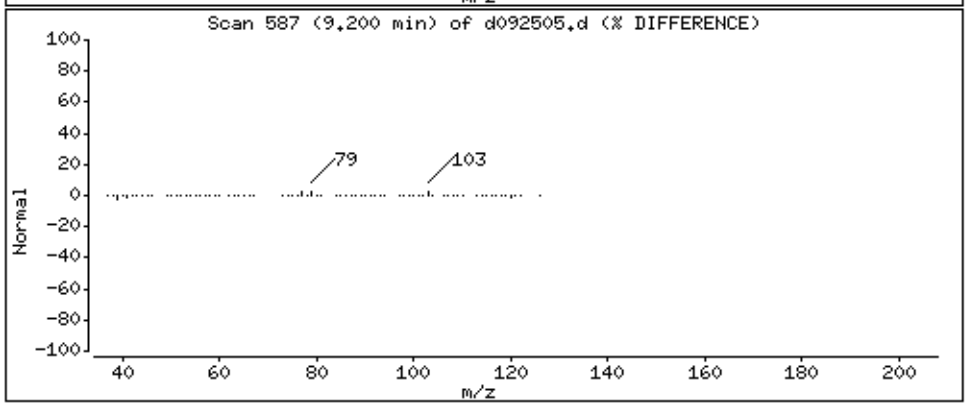
155 4-Ethyltoluene

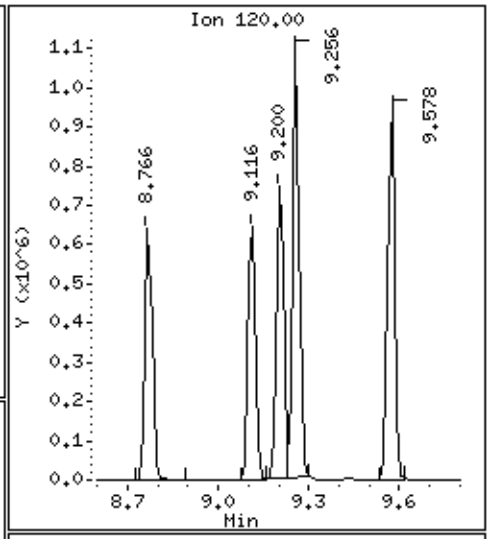
Concentration: 51.211 PPBV

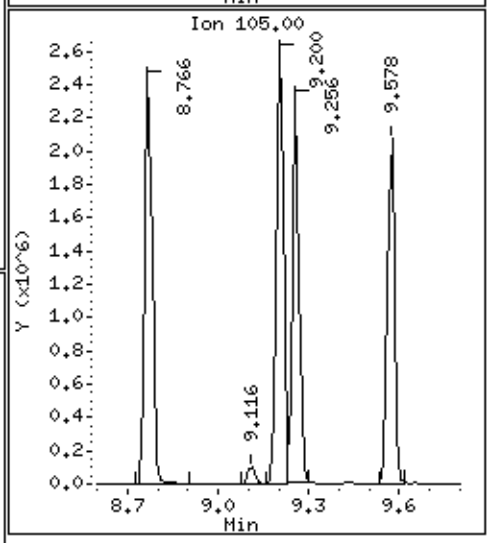












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

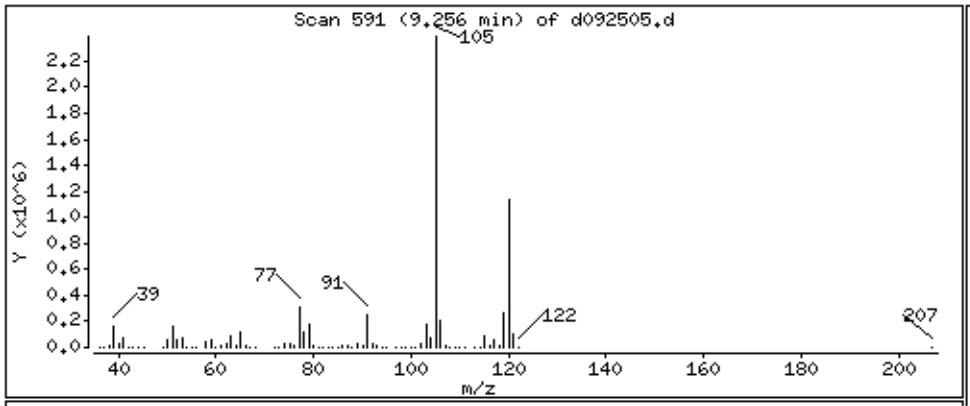
Operator: ccy

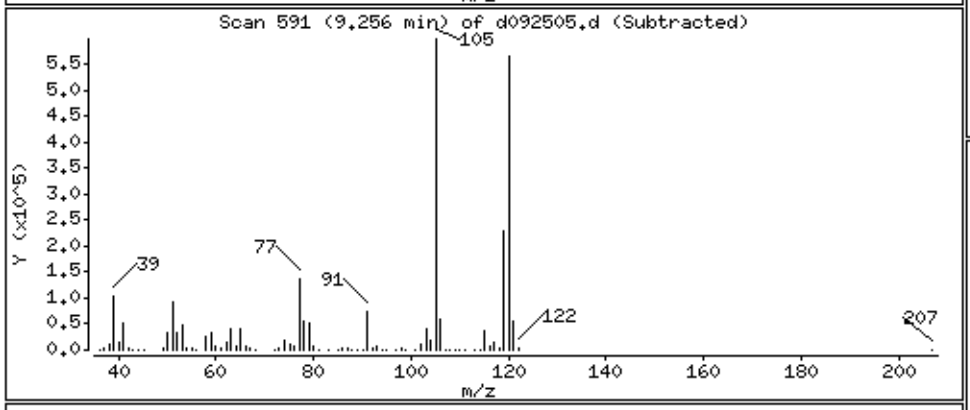
Column phase: RTx-624

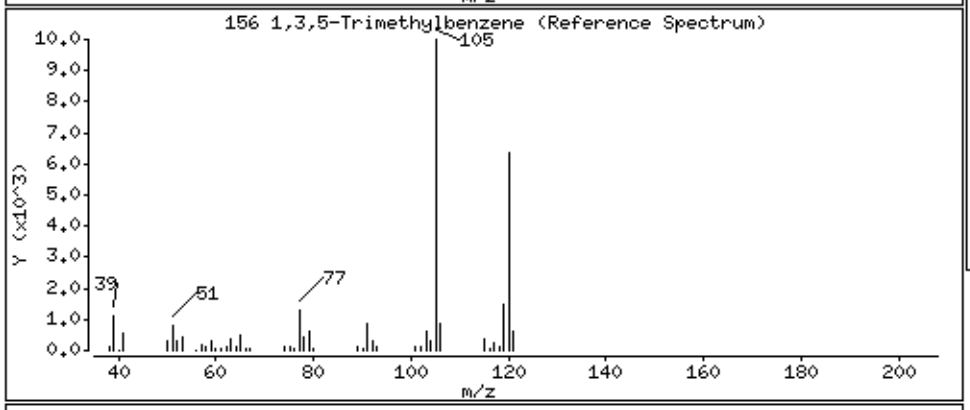
Column diameter: 0.53

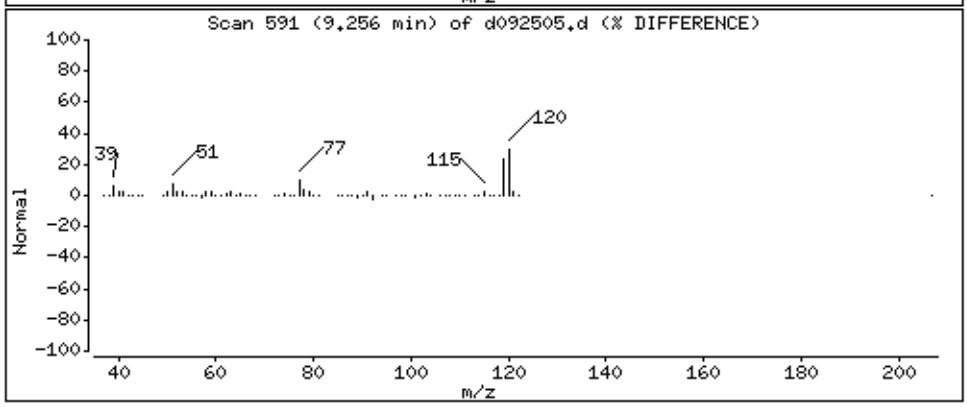
156 1,3,5-Trimethylbenzene

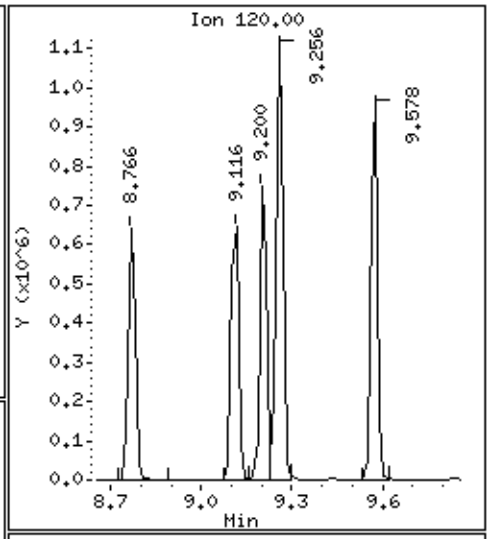
Concentration: 51.618 PPBV

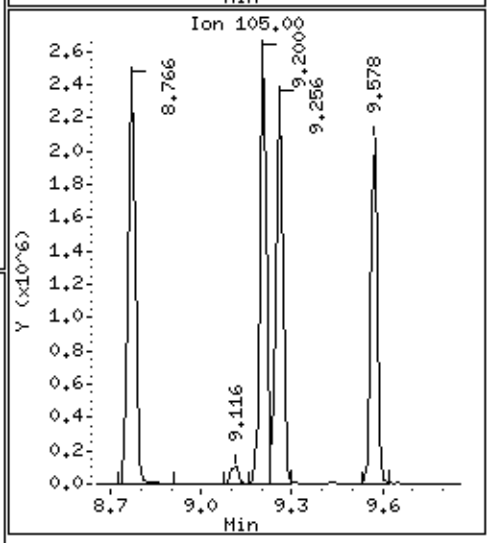












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

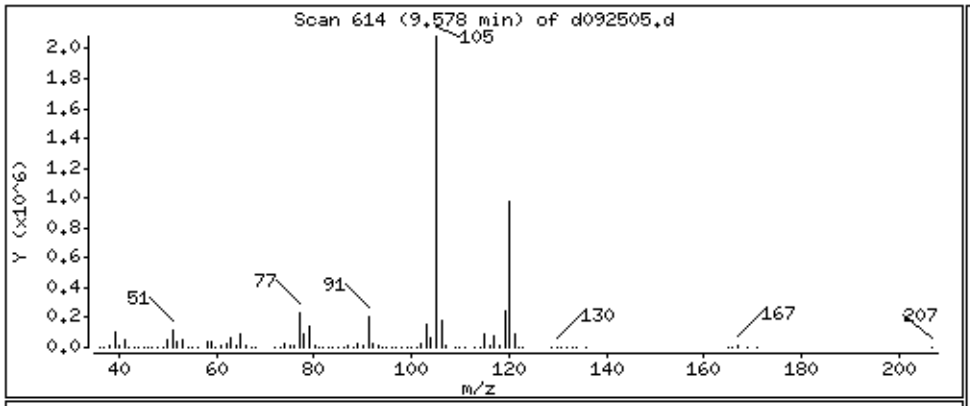
Operator: ccy

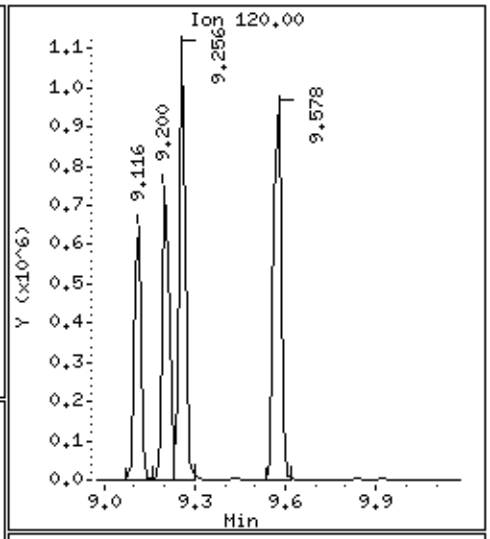
Column phase: RTx-624

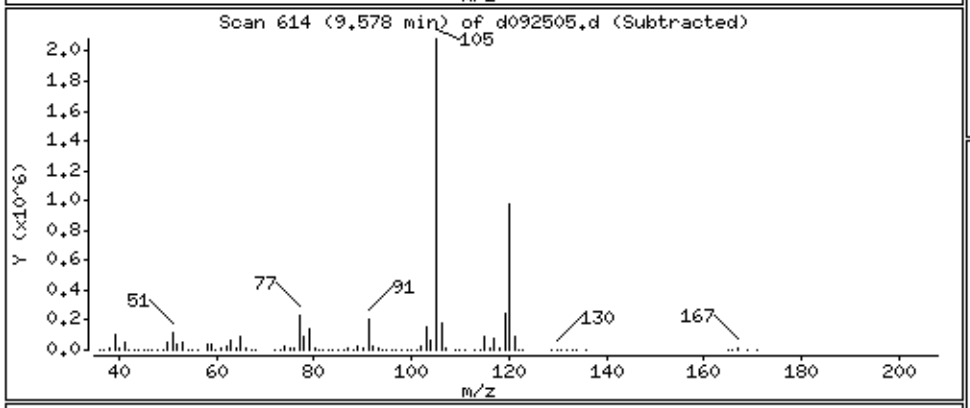
Column diameter: 0.53

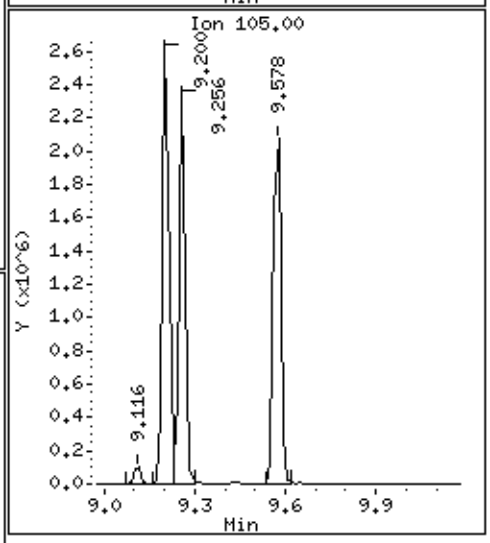
162 1,2,4-Trimethylbenzene

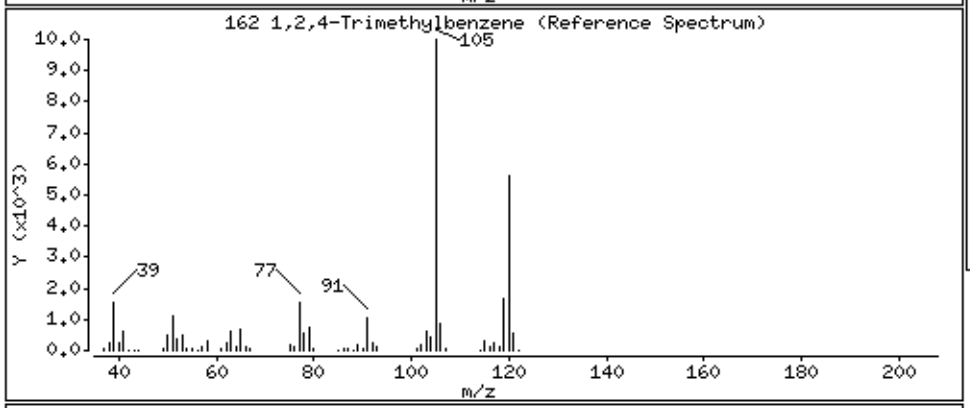
Concentration: 52.718 PPBV

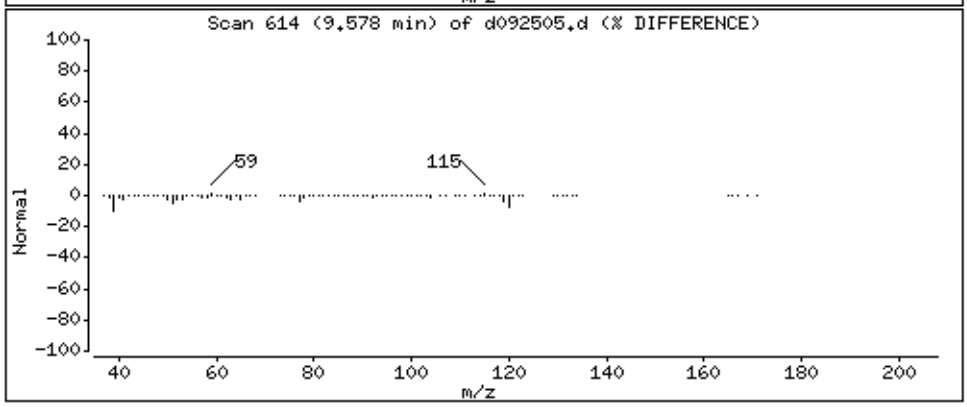












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

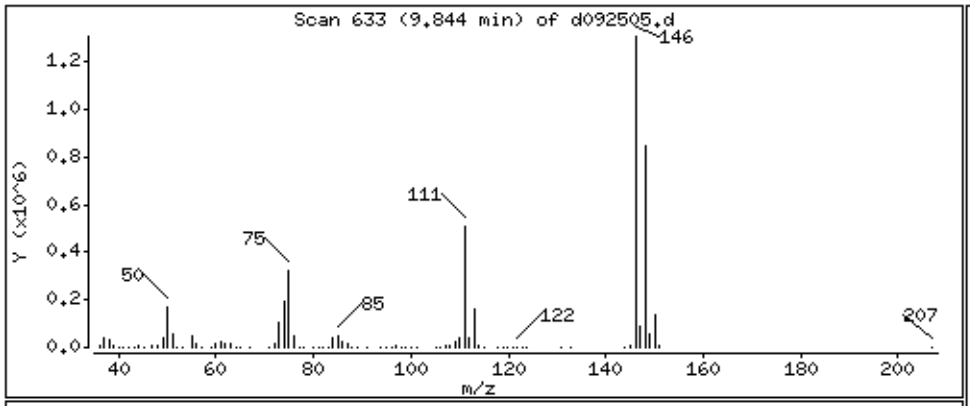
Operator: ccy

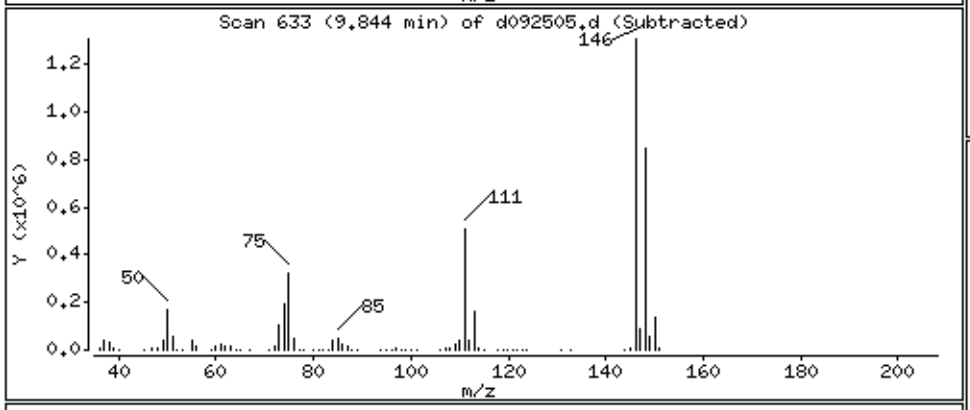
Column phase: RTx-624

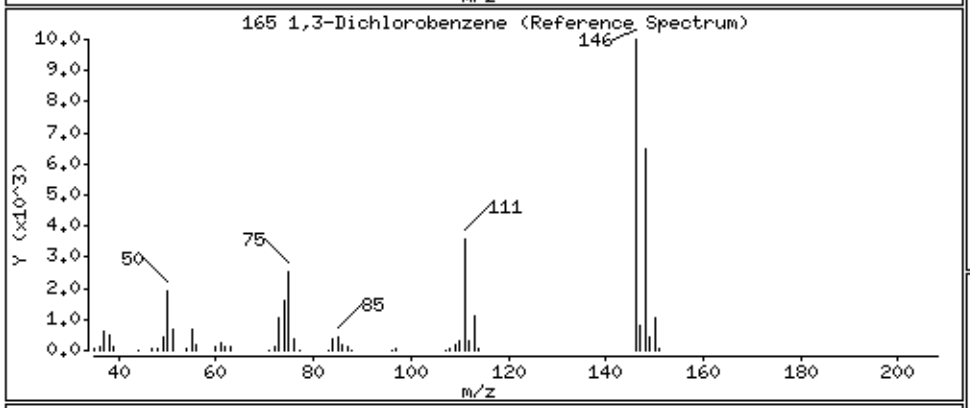
Column diameter: 0.53

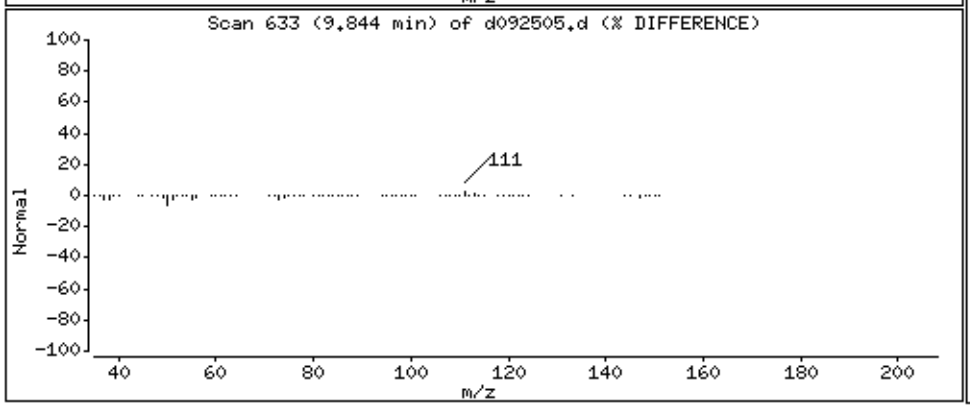
165 1,3-Dichlorobenzene

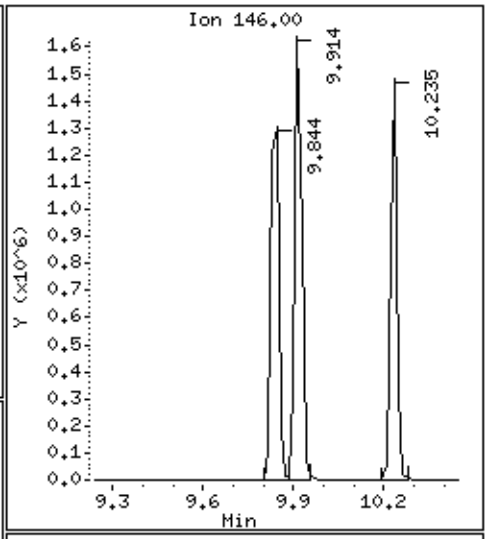
Concentration: 52.140 PPBV

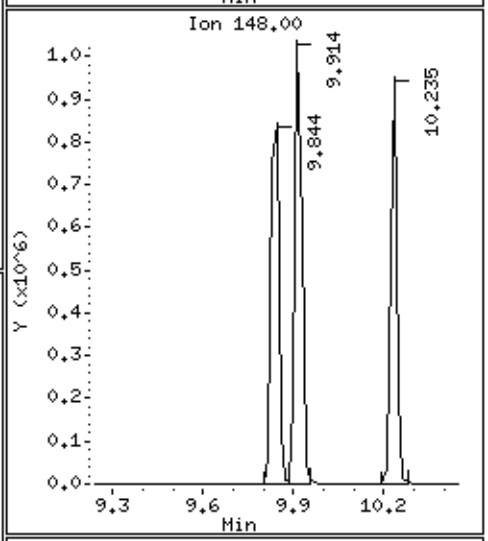


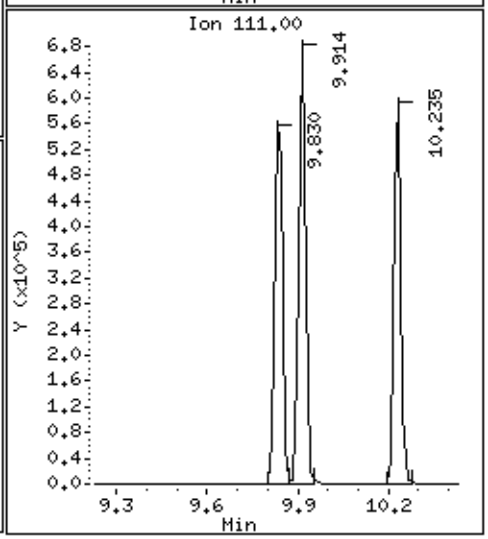












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

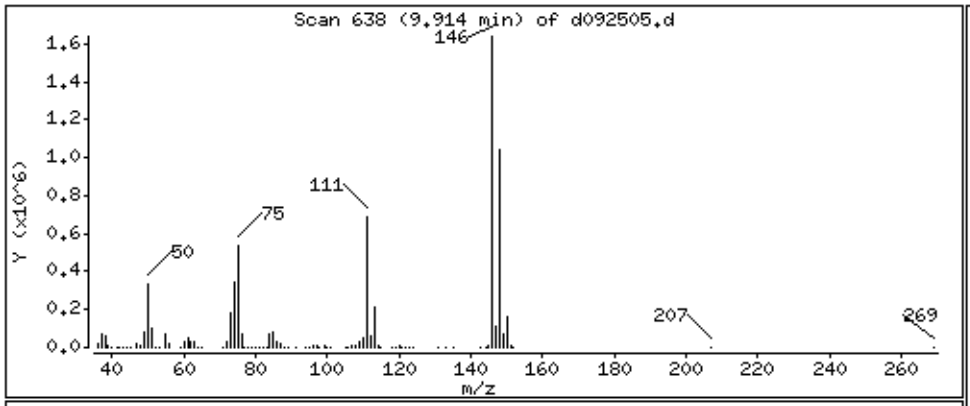
Operator: ccy

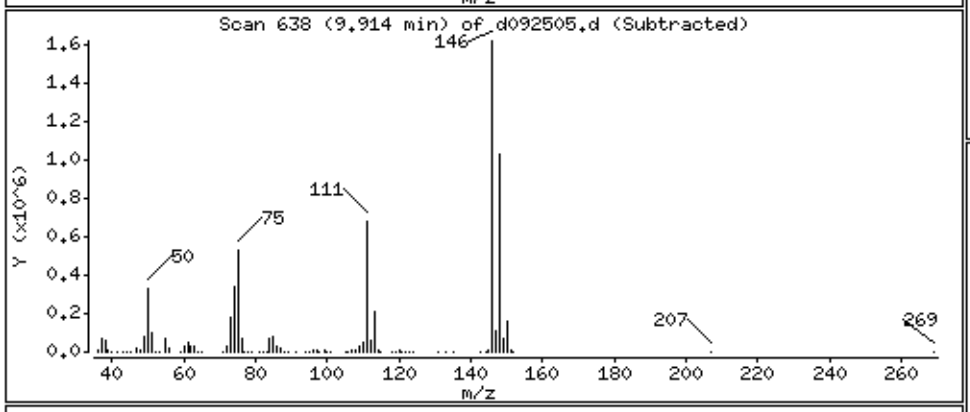
Column phase: RTx-624

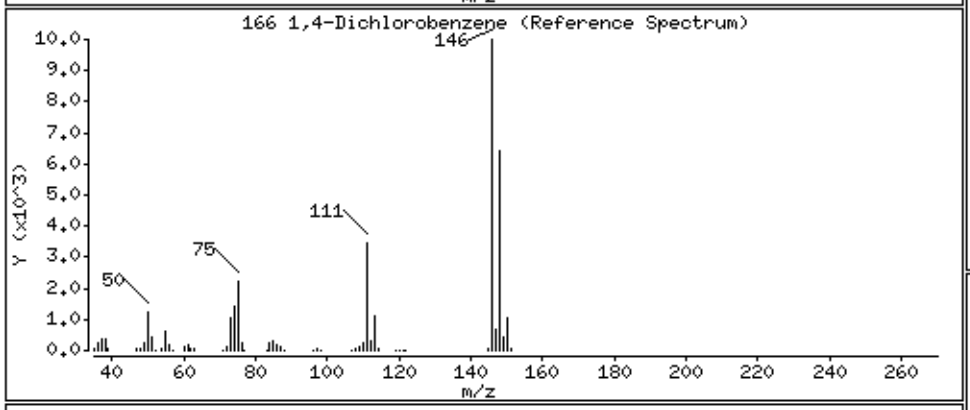
Column diameter: 0.53

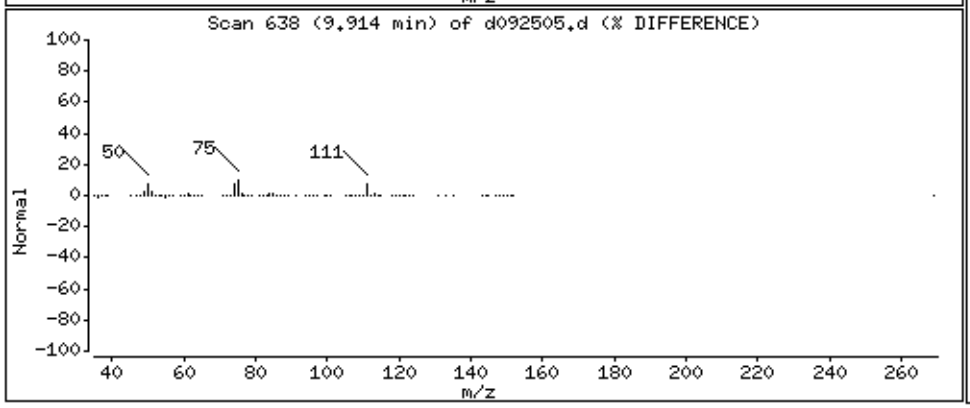
166 1,4-Dichlorobenzene

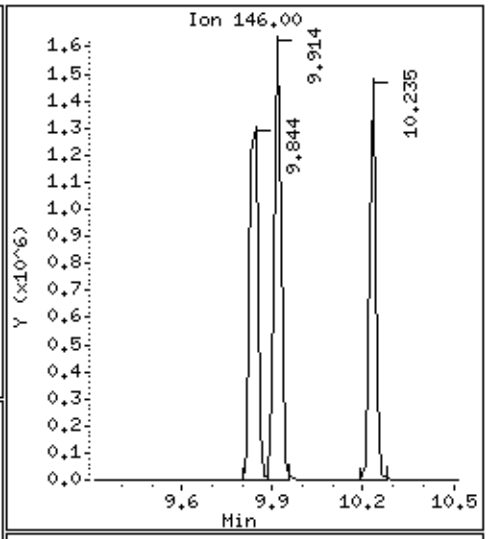
Concentration: 53.922 PPBV

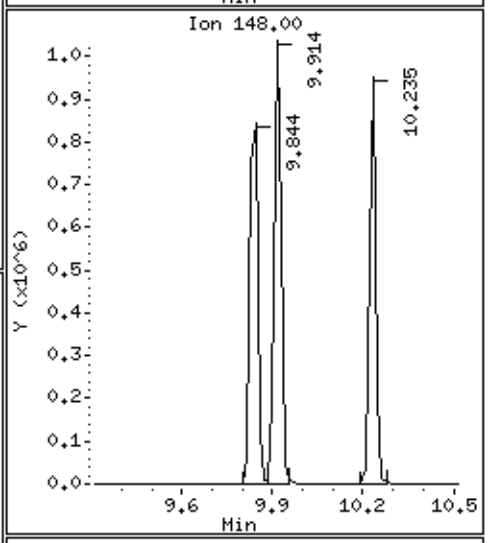


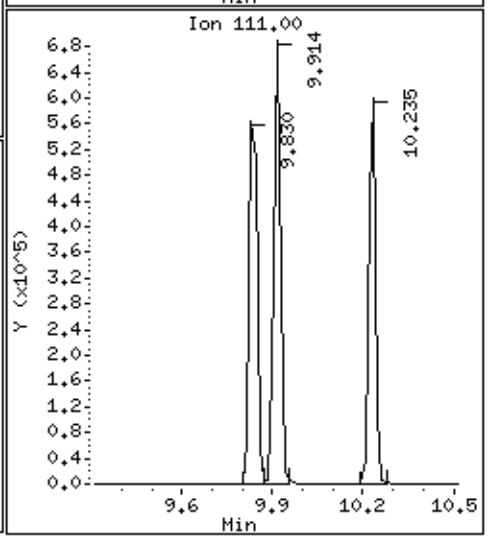












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

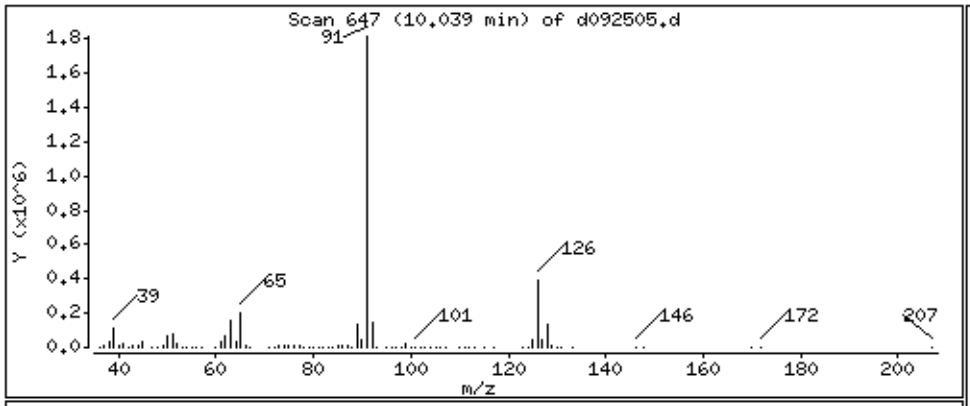
Operator: ccy

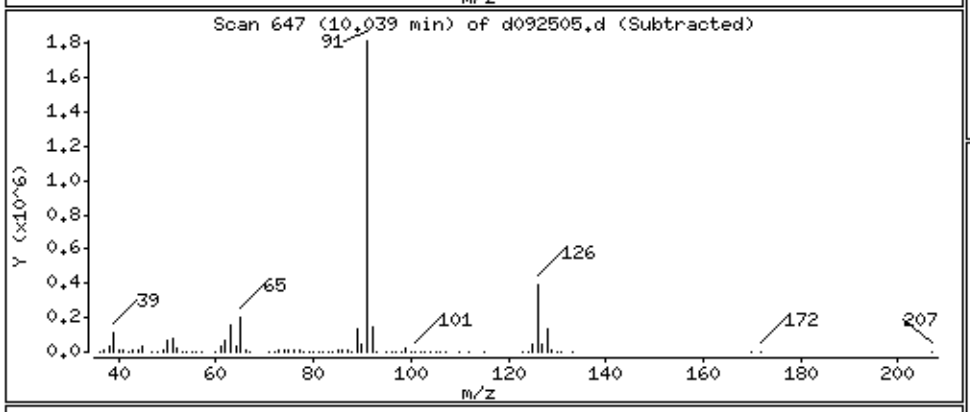
Column phase: RTx-624

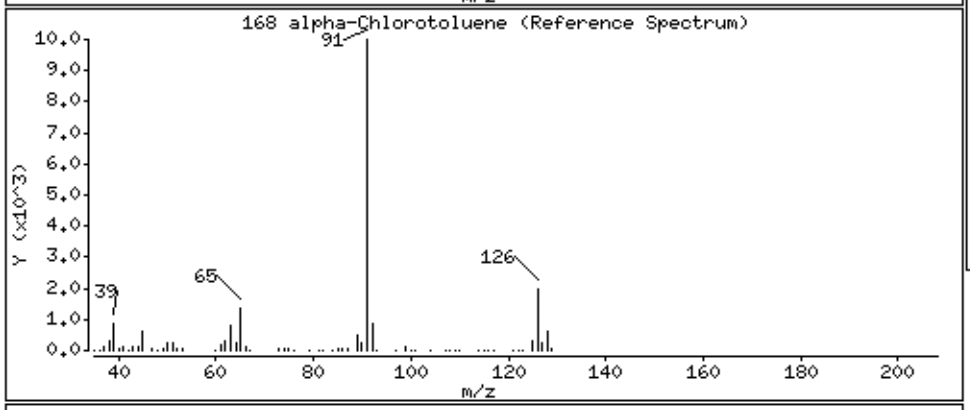
Column diameter: 0.53

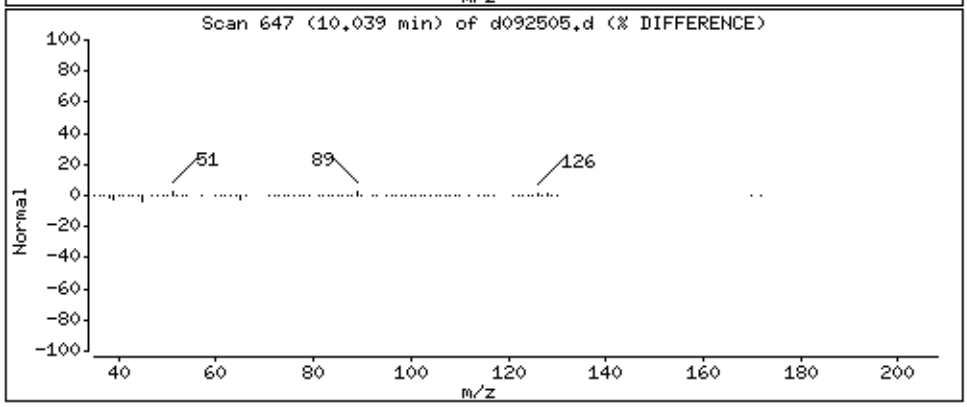
168 alpha-Chlorotoluene

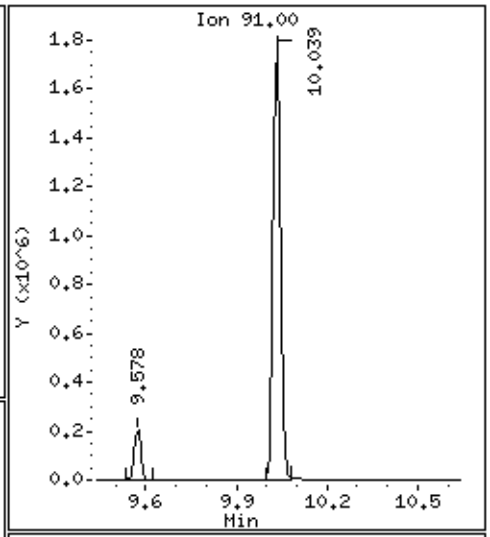
Concentration: 51.714 PPBV

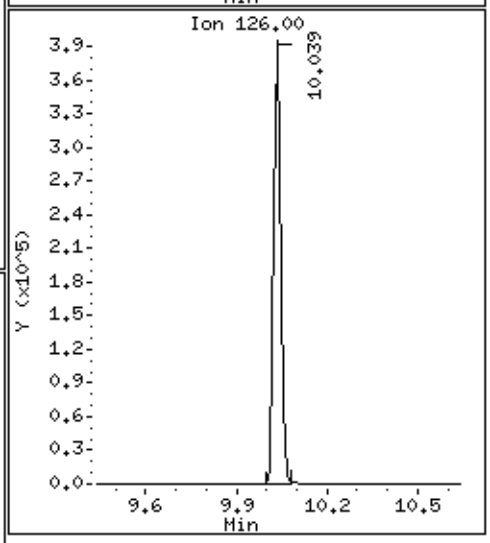












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

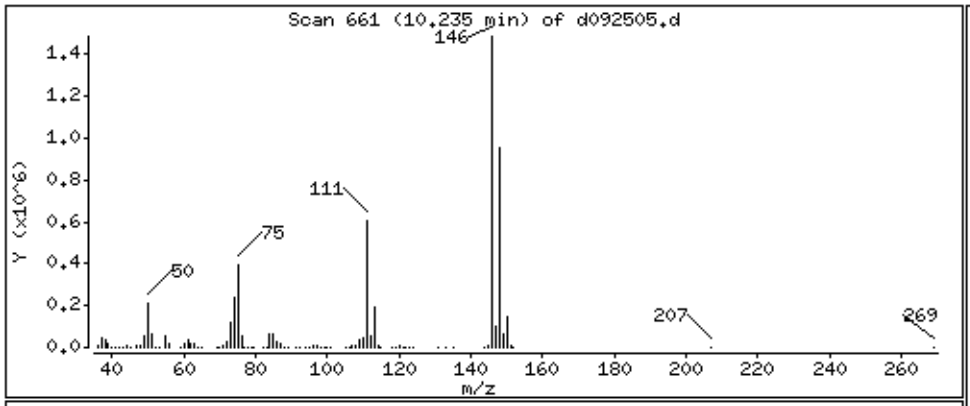
Operator: ccy

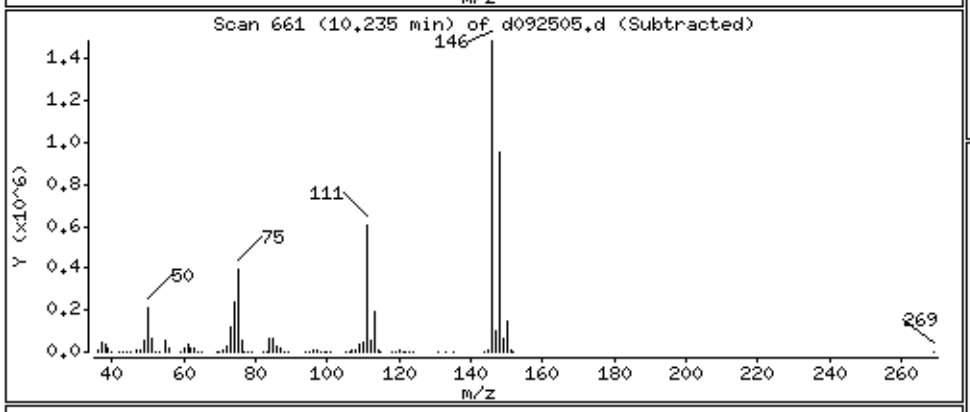
Column phase: RTx-624

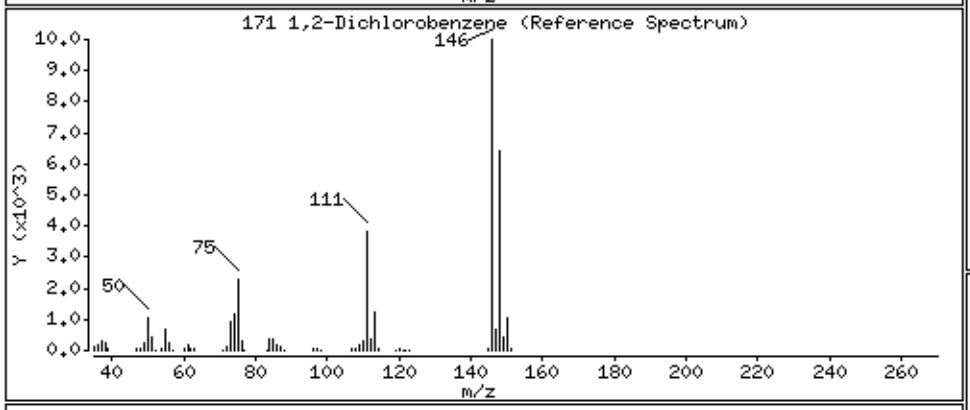
Column diameter: 0.53

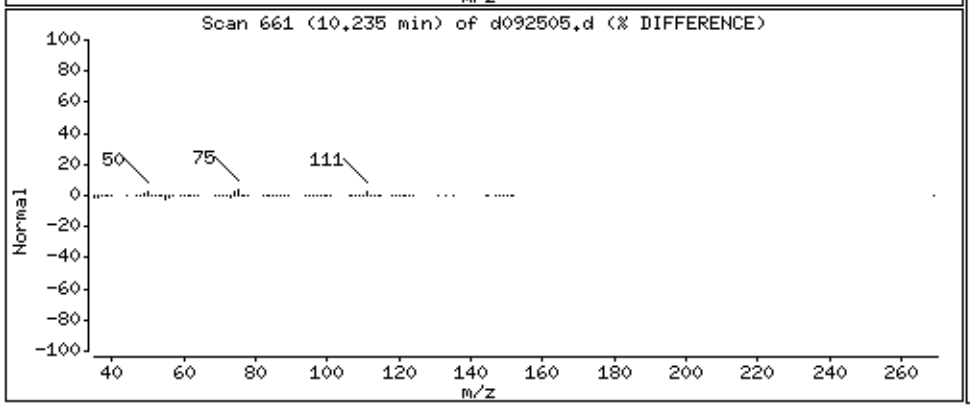
171 1,2-Dichlorobenzene

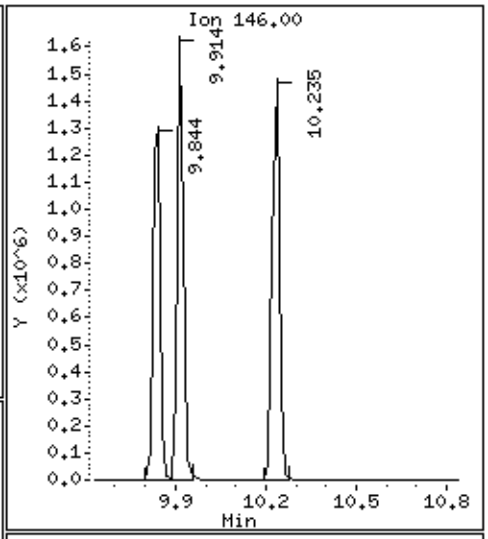
Concentration: 53.360 PPBV

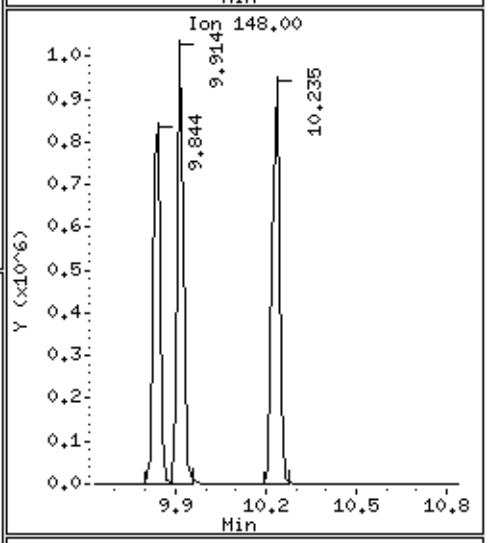


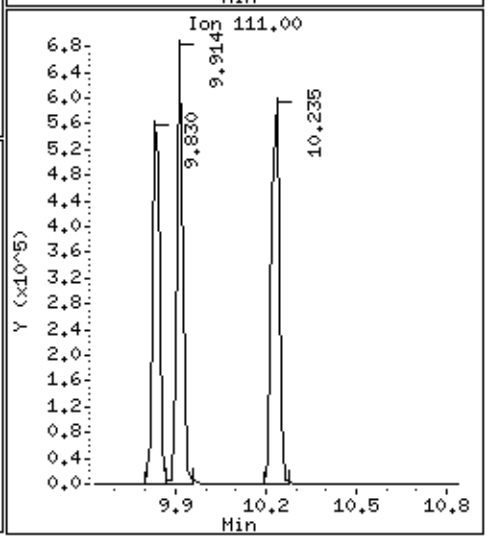












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

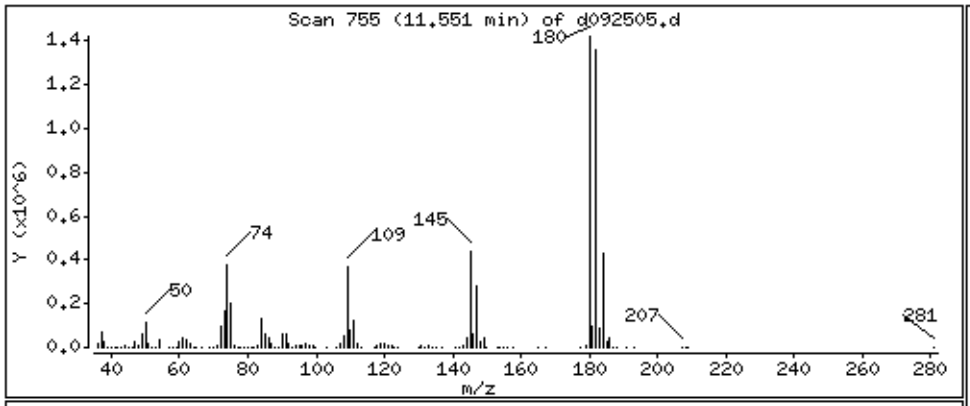
Operator: ccy

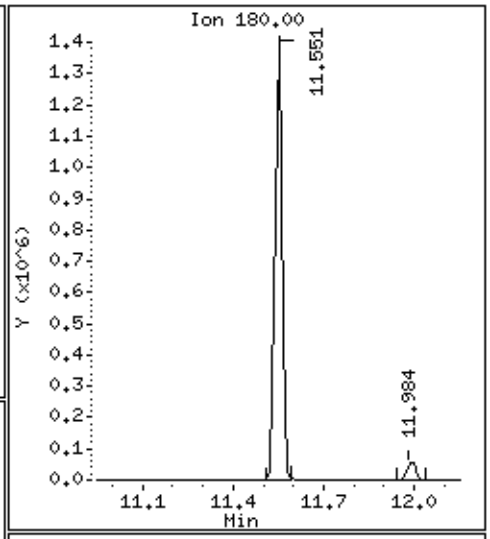
Column phase: RTx-624

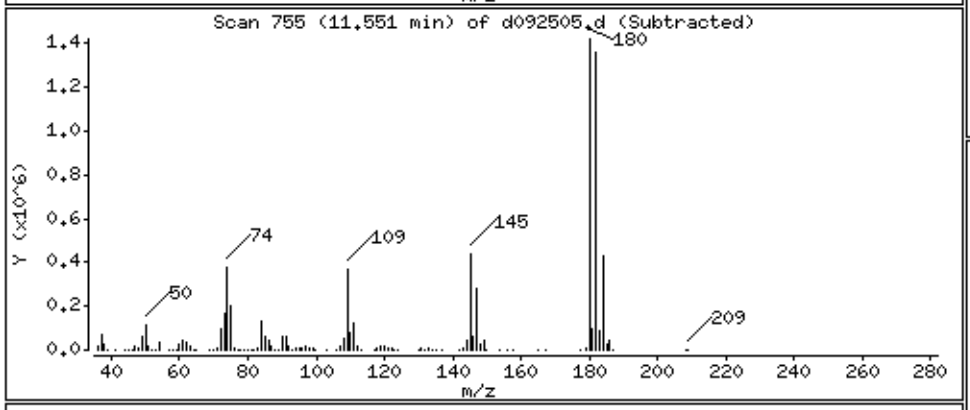
Column diameter: 0.53

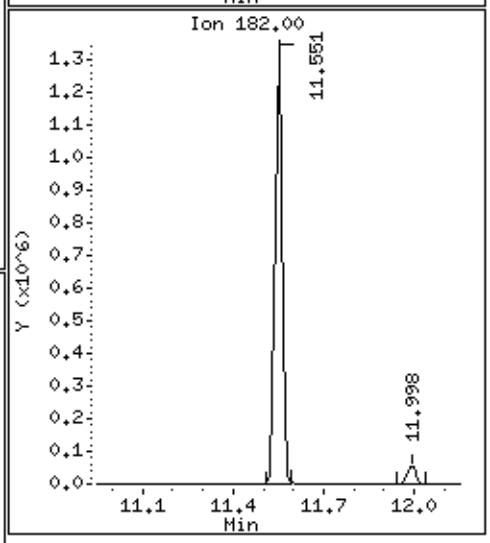
174 1,2,4-Trichlorobenzene

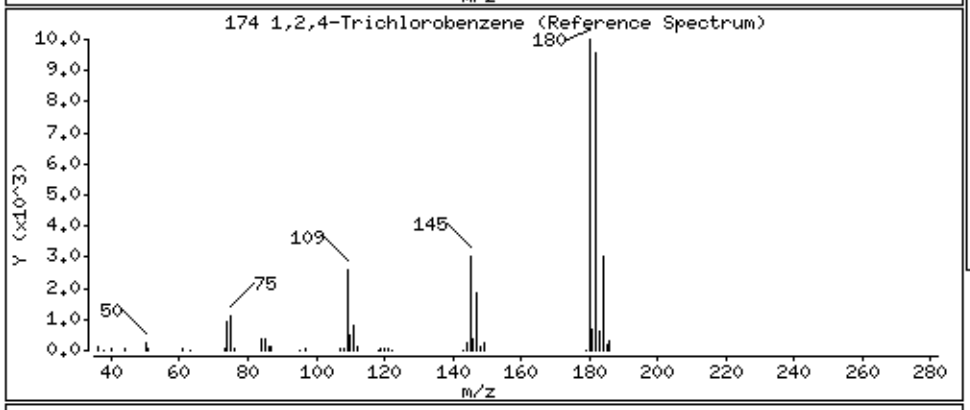
Concentration: 53.988 PPBV

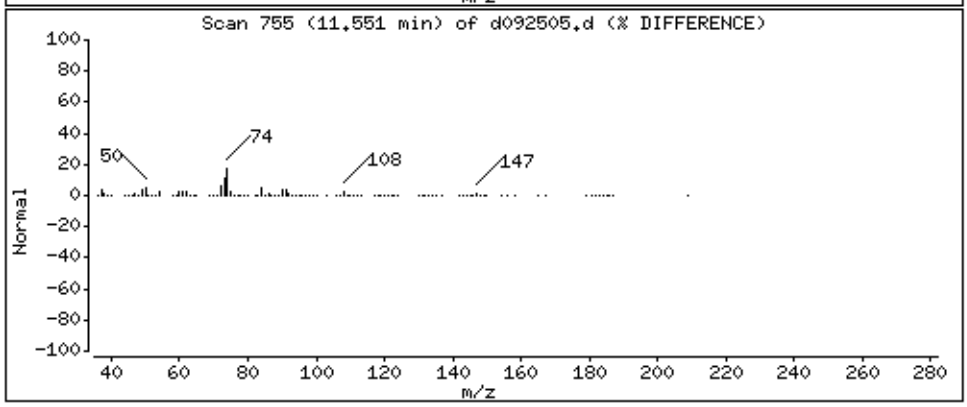












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

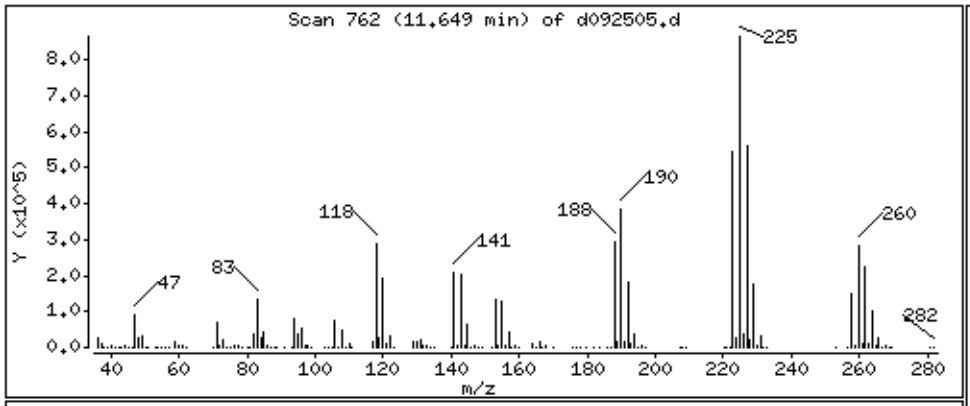
Operator: ccy

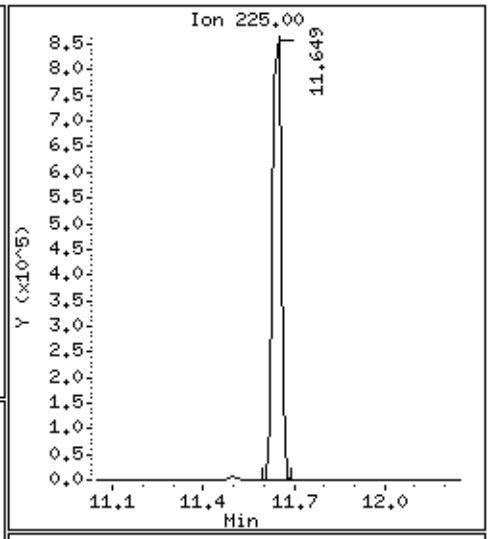
Column phase: RTx-624

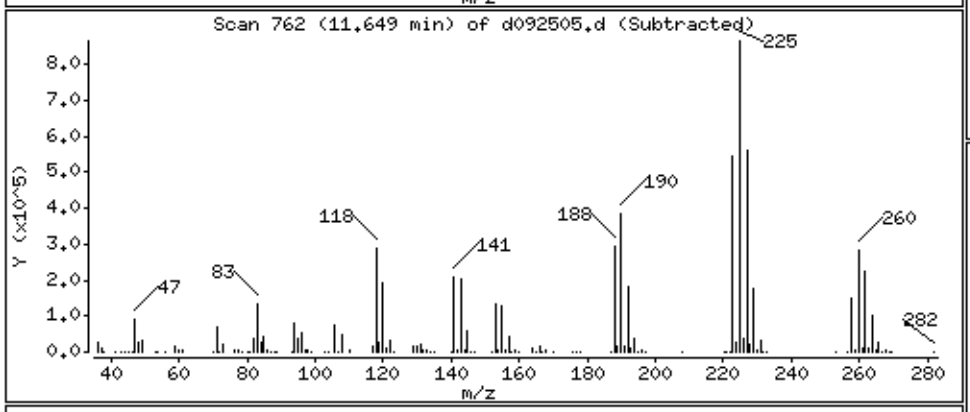
Column diameter: 0.53

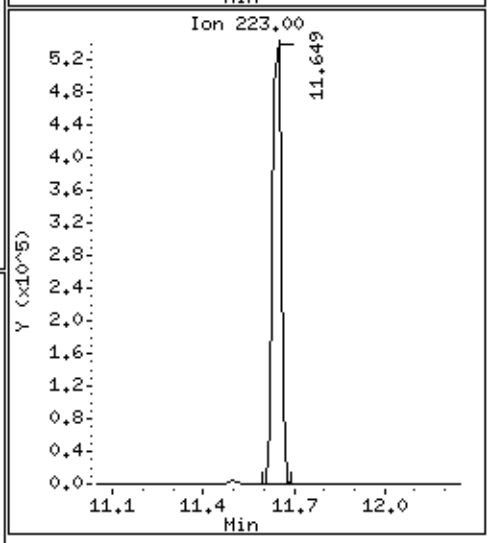
175 Hexachlorobutadiene

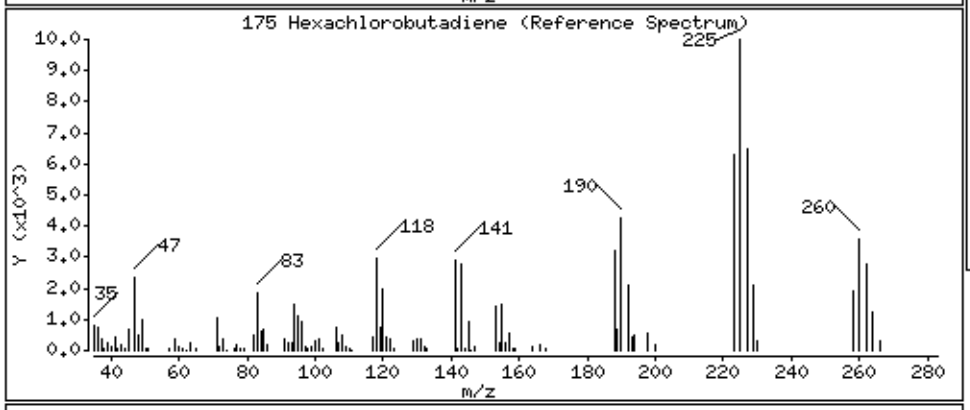
Concentration: 56.393 PPBV

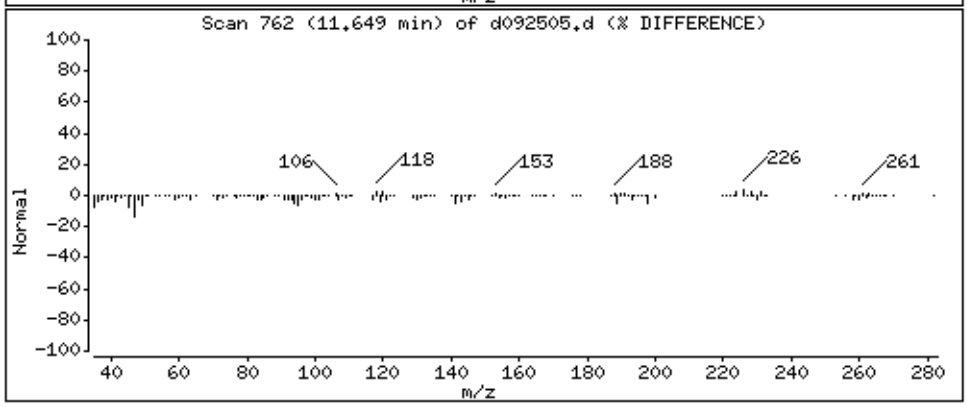












Data File: /chem/msdd.i/25sep10.b/d092505.d

Date : 25-SEP-2010 10:44

Client ID: LCSD

Instrument: msdd.i

Sample Info: 50mL #1968-279

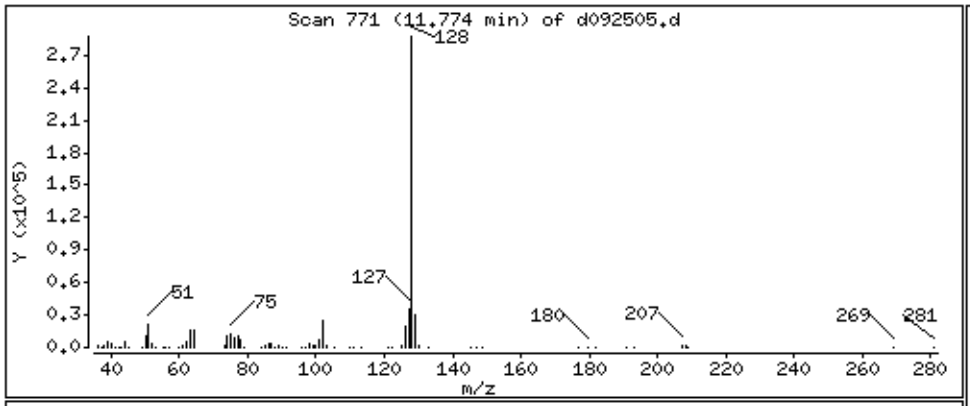
Operator: ccy

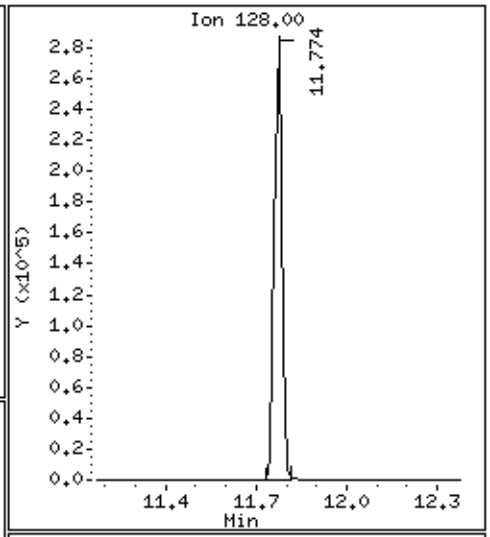
Column phase: RTx-624

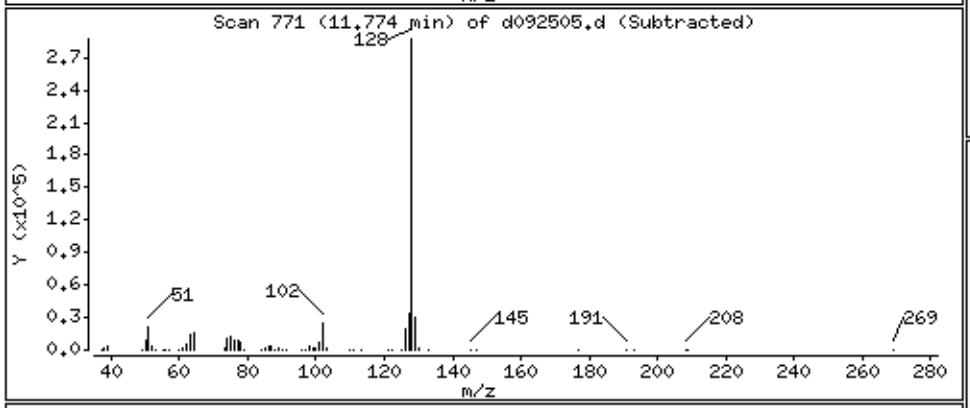
Column diameter: 0.53

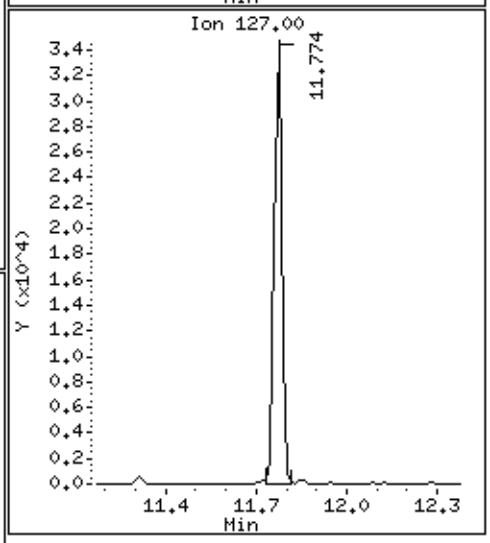
176 Naphthalene

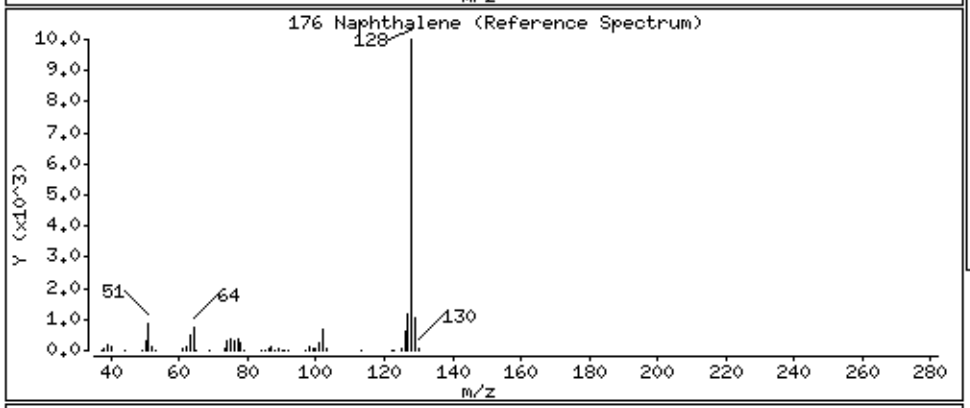
Concentration: 4.814 PPBV

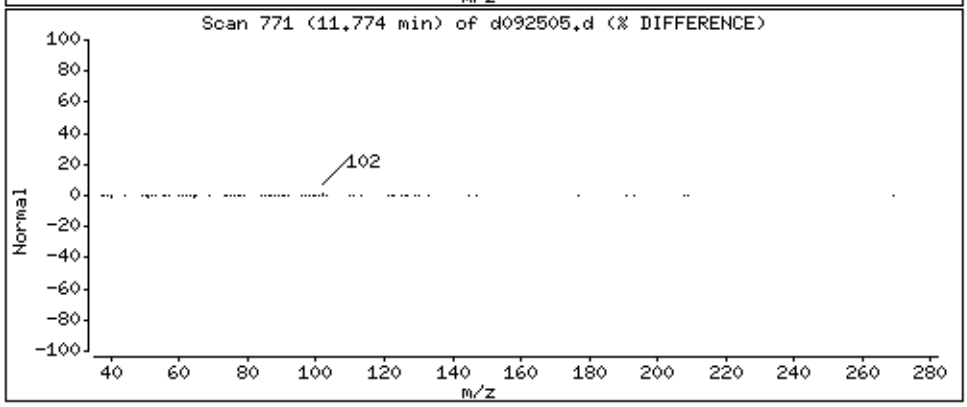












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MSD-D

Logbook #: 2016

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	19.61
75	30.0 – 60.0% of mass 95	48.07
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.98
173	Less than 2.0% of mass 174	0.58 (0.81)[1]
174	50.0 – 100% of mass 95	71.06
175	5.0 – 9.0% of mass 174	5.15 (7.25)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	68.35 (96.18)[1]
177	5.0 – 9.0% of mass 176	4.56 (6.67)[2]

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

BFB Injection Date: 09/25/2010
BFB Injection Time: 8:26
BFB File ID: D092501
Tekmar Purge Flow:
Vacuum: Z CCY 9/25/10

IS/S Std.#: 1936-287	Exp. Date: 11/20/10
BCM 211394	
1,4-DFB 892044	
CB-d5 1020742	

Verified CCV IS vs ICAL mid-point (- 40%D) CCY *initials*

Verify 176/174 m/z Ratio: [(230016)/(238168)]·(100) = 96.17

NOAH Cart #: n/a **File #:** n/a

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(273765)}{(\cancel{892044}\ 211394)} \times \frac{(25.0000)}{(.623567)} = 51.921$

CCY 9/25/10

Reported Result 51.921

File ID:	D092503
Compound:	Propylene
Initials:	CCY

Method: D100920241A.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	D092501	BFB Tune Check	1936-287	36ng	1.0mL	1.00	CCY	9/25/10	826	CCY/LL	BFB
2	X	02	CCV (200ppbv)	1936-309	50ppbv	50mL				906	CCY/↓	CCV Not used
3	✓	03	↓	↓						0952	LL	~~CCV~~ CCY 9/25/10 @ out
4	✓	04	LCS (200ppbv)	1968-279						1024		~~LCSD~~ LCS 9/25/10 @ out
5	✓	05	LCSD ↓	↓	↓	↓				1044		LCSD @ out
6	X	06	SYSTEM BLANK	5619	HUMID	200mL				NA ~~1244~~		File error
7	✓	07	LAB BLANK	↓	↓	↓				1244 ~~1324~~		Bromomethane "B" flagged.
8	✓	08	1009578F02A	05406	28.5"Hg 3psi	↓	~~26.80~~ 26.8 LL 9/25/10	↓	↓	1324 ~~1404~~ LL 9/25/10	✓	DF = 26.8

Signature

9/25/10
Date

@ Air Toxics Ltd.

MSD-D

Logbook #: 2016

9	✓	D092509	1009578A -01A	39211	28.5"Hg → 5psi	200mL	~~27.80~~	CCY	9/25/10	1409	LL	DF = 26.8
10	✓	10	-04A	12687	29"Hg → 5psi		40.20			1455		DF = 40.2
11	✓	11	-05A	25300	29.5"Hg → 5psi		~~80.41~~			1529		DF = ~~80.4~~ 1.0
12	X	12	-03A	~~D530~~ 05362	23"Hg → 5psi	125mL	9.18	LL		1704		over Diluted Can # 05362
13	✓	13	-03A	05362	23"Hg → 5psi	200mL	5.74			1736		NA
14	✓	14	1009348 -01A	14116	5.0"Hg → 5psi		1.61			1818		
15	✓	15	-02A	34493	8.5"Hg → 5psi		1.87			1837		
16	✓	16	1009373-01A	30812	1.5"Hg → 15psi		2.13			1916 ~~2.25~~		
17	✓	17	-02A	11821	3.0"Hg → 5psi		2.24			1939		
18	✓	18	-03A	30830						1958		
19	✓	19	-04A	36448	4.5"Hg → 15psi		2.38			2039		
20	✓	20	-05A	12365	0.5"Hg → 15psi		2.05			~~29~~ 2104		
21	✓	21	-06A	34454	2.0"Hg → 15psi		2.16			2133		
22	✓	22	-07A	34617	4.0"Hg → 15psi		2.33			2152		
23	✓	23	-08A	34609	2.0"Hg → 15psi		2.16			2213		
24	✓	24	~~-10A~~ ~~-08A~~	12361	1.0"Hg → 15psi		2.09			2229		
25	✓	25	-09A	37433	3.0"Hg →		2.24			2258		
26												
27												
28												
29												
30												
31												

Comments:

9/25/10

Leslie Lam
Signature

9/25/10
Date

Air Toxics Ltd.

Data file : /var/chem/msdd.i/24sep10.b/d092401.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-SEP-2010 09:42
Operator : db Inst ID: msdd.i
Smp Info : 1.0mL #1936-287;BFB;BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdd.i/24sep10.b/bfb30.m
Meth Date : 24-Sep-2010 09:49 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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.936	9.235	-0.299	95	411830			100.00- 100.00	100.00
8.936	9.235	-0.299	50	77153			15.00- 40.00	18.73
8.936	9.235	-0.299	75	190464			30.00- 60.00	46.25
8.936	9.235	-0.299	96	28155			5.00- 9.00	6.84
8.936	9.235	-0.299	173	2033			0.00- 1.99	0.68
8.936	9.235	-0.299	174	297488			50.01- 100.00	72.24
8.936	9.235	-0.299	175	21192			5.00- 9.00	7.12
8.936	9.235	-0.299	176	285336			95.01- 100.99	95.92
8.936	9.235	-0.299	177	18729			5.00- 9.00	6.56

Data File: /var/chem/msdd.i/24sep10.b/d092401.d

Date : 24-SEP-2010 09:42

Client ID: BFB

Instrument: msdd.i

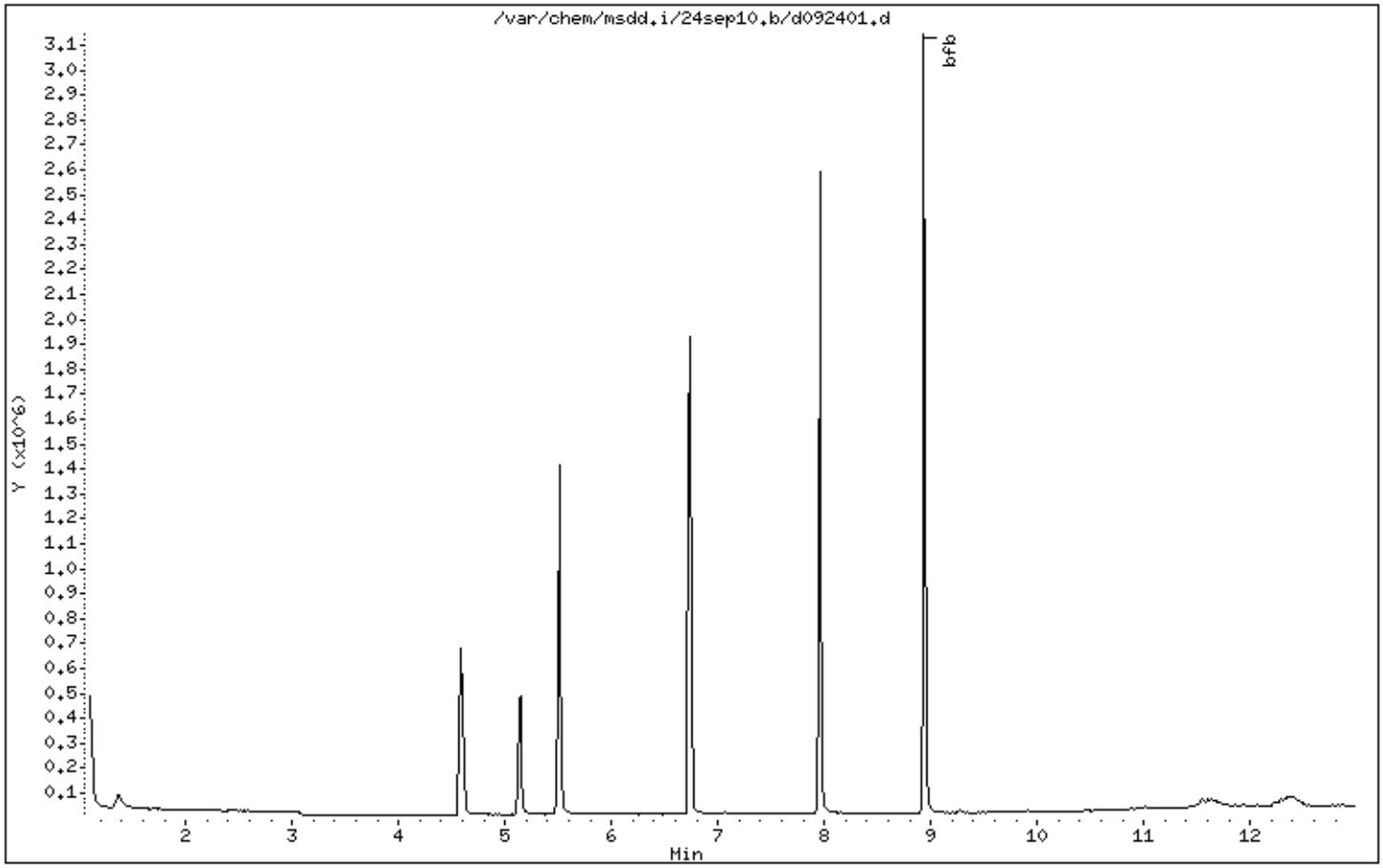
Sample Info: 1.0mL #1936-287;BFB;BFB

Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdd.i/24sep10.b/d092401.d

Date : 24-SEP-2010 09:42

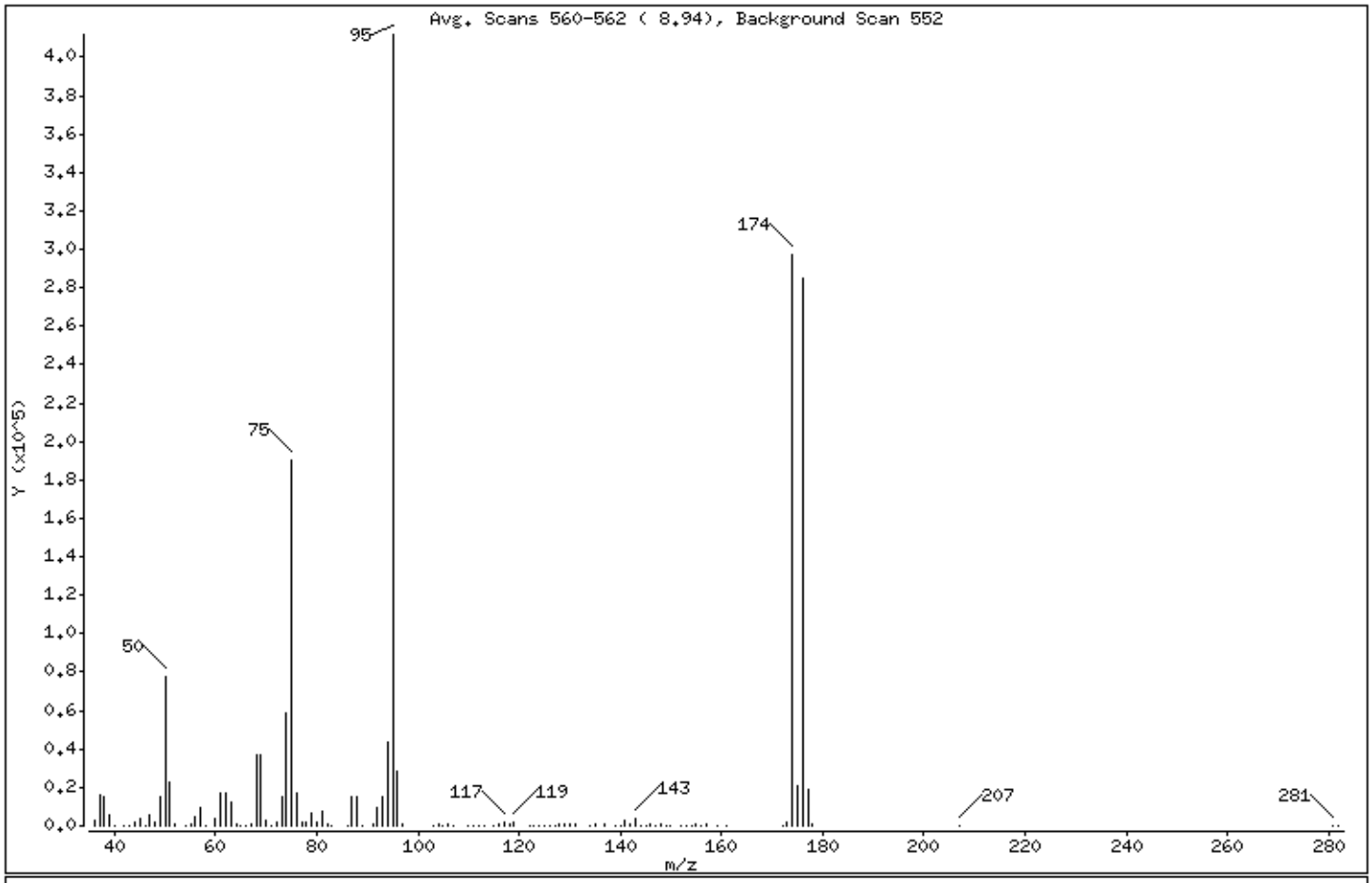
Client ID: BFB Instrument: msdd.i

Sample Info: 1.0mL #1936-287;BFB;BFB

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.73
75	30.00 - 60.00% of mass 95	46.25
96	5.00 - 9.00% of mass 95	6.84
173	Less than 1.99% of mass 174	0.49 (0.68)
174	50.01 - 100.00% of mass 95	72.24
175	5.00 - 9.00% of mass 174	5.15 (7.12)
176	95.01 - 100.99% of mass 174	69.28 (95.92)
177	5.00 - 9.00% of mass 176	4.55 (6.56)

Data File: /var/chem/msdd.i/24sep10.b/d092401.d

Date : 24-SEP-2010 09:42

Client ID: BFB

Instrument: msdd.i

Sample Info: 1.0mL #1936-287;BFB;BFB

Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00

Data File: d092401.d
Spectrum: Avg. Scans 560-562 (8.94), Background Scan 552
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2888	68.00	37032	105.00	470	143.00	3346
37.00	15829	69.00	36800	106.00	1377	144.00	174
38.00	14869	70.00	2976	107.00	345	145.00	335
39.00	6060	71.00	150	110.00	251	146.00	602
40.00	222	72.00	1788	111.00	244	147.00	224
42.00	126	73.00	15598	112.00	209	148.00	894
43.00	98	74.00	58328	113.00	227	149.00	271
44.00	1810	75.00	190464	115.00	290	150.00	292
45.00	3314	76.00	16608	116.00	1195	152.00	177
46.00	200	77.00	1956	117.00	1933	153.00	209
47.00	5869	78.00	1594	118.00	1023	154.00	95
48.00	2210	79.00	7094	119.00	1650	155.00	805
49.00	15413	80.00	2153	122.00	57	156.00	153
50.00	77152	81.00	7353	123.00	50	157.00	611
51.00	23112	82.00	1383	124.00	212	159.00	443
52.00	804	83.00	187	125.00	62	161.00	358
54.00	30	86.00	432	126.00	52	172.00	220
55.00	923	87.00	15320	127.00	140	173.00	2033
56.00	4687	88.00	14904	128.00	1190	174.00	297472
57.00	9554	89.00	78	129.00	574	175.00	21192
58.00	406	91.00	868	130.00	1199	176.00	285312
60.00	3413	92.00	9660	131.00	536	177.00	18728
61.00	16712	93.00	15469	134.00	59	178.00	606
62.00	16672	94.00	43536	135.00	619	207.00	164
63.00	12001	95.00	411776	137.00	568	281.00	105
64.00	1158	96.00	28152	139.00	69	282.00	72
65.00	172	97.00	936	140.00	242		
66.00	54	103.00	201	141.00	2880		
67.00	895	104.00	1269	142.00	534		

Air Toxics Ltd.

Data file : /var/chem/msdd.i/25sep10.b/d092501.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 25-SEP-2010 08:26
Operator : ccy Inst ID: msdd.i
Smp Info : 1.0mL #1936-287;BFB;BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdd.i/25sep10.b/bfb30.m
Meth Date : 25-Sep-2010 08:32 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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.936	9.235	-0.299	95	336596			100.00- 100.00	100.00
8.936	9.235	-0.299	50	66008			15.00- 40.00	19.61
8.936	9.235	-0.299	75	161800			30.00- 60.00	48.07
8.936	9.235	-0.299	96	23505			5.00- 9.00	6.98
8.936	9.235	-0.299	173	1942			0.00- 1.99	0.81
8.936	9.235	-0.299	174	239189			50.01- 100.00	71.06
8.936	9.235	-0.299	175	17336			5.00- 9.00	7.25
8.936	9.235	-0.299	176	230048			95.01- 100.99	96.18
8.936	9.235	-0.299	177	15340			5.00- 9.00	6.67

Data File: /var/chem/msdd.i/25sep10.b/d092501.d

Date : 25-SEP-2010 08:26

Client ID: BFB

Instrument: msdd.i

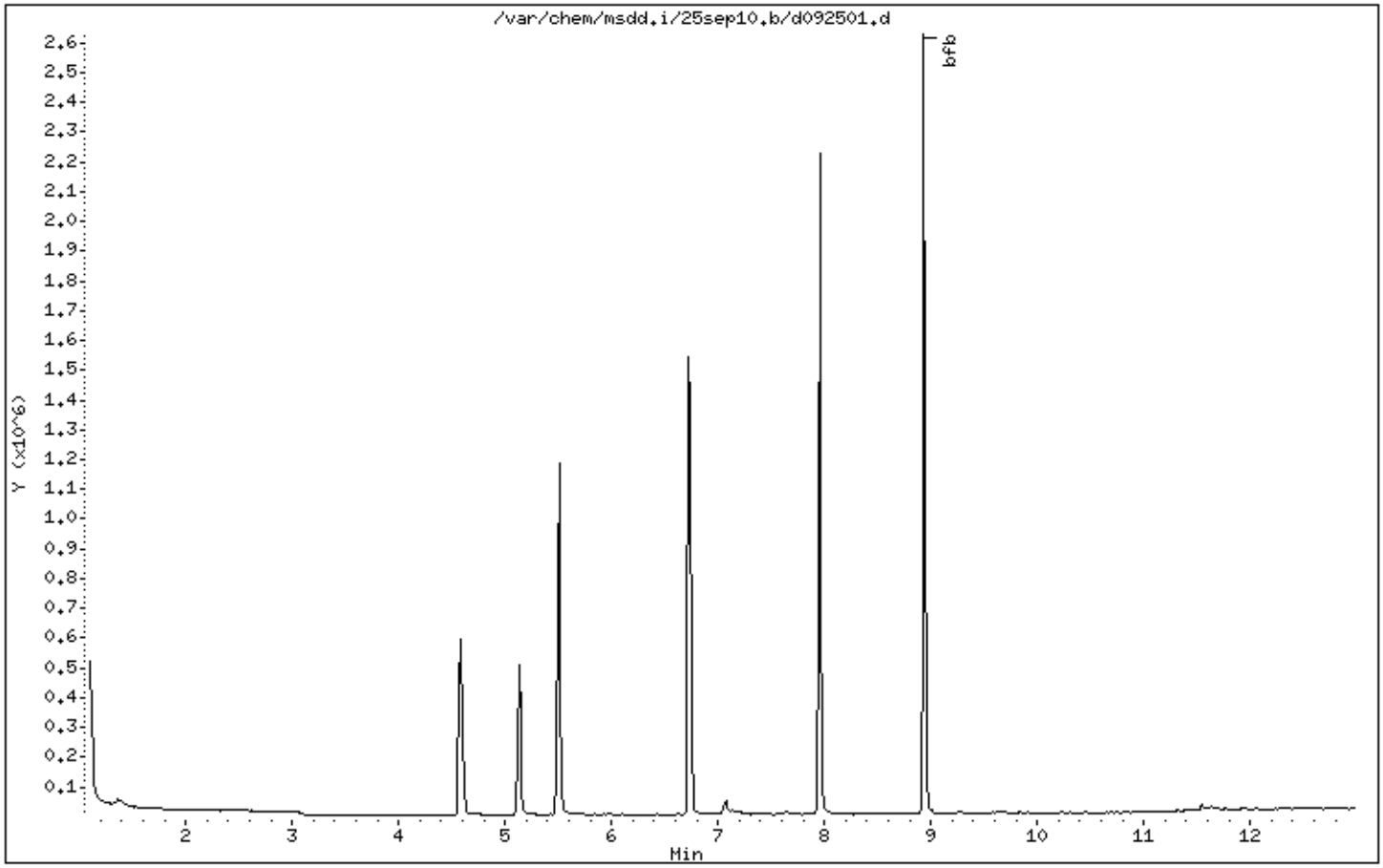
Sample Info: 1.0mL #1936-287;BFB;BFB

Volume Injected (uL): 1.0

Operator: ccy

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdd.i/25sep10.b/d092501.d

Date : 25-SEP-2010 08:26

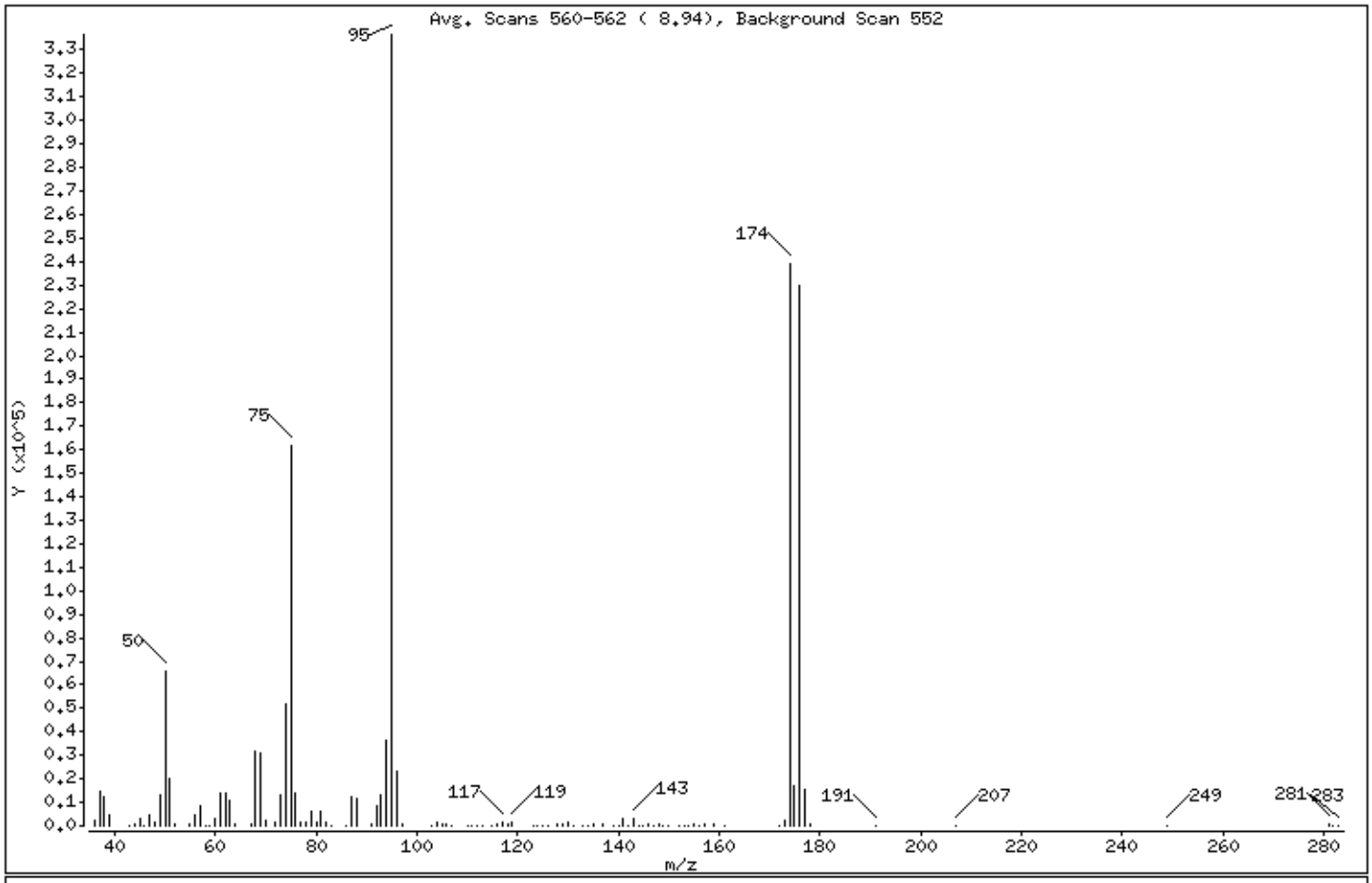
Client ID: BFB Instrument: msdd.i

Sample Info: 1.0mL #1936-287;BFB;BFB

Volume Injected (uL): 1.0 Operator: ccy

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.61
75	30.00 - 60.00% of mass 95	48.07
96	5.00 - 9.00% of mass 95	6.98
173	Less than 1.99% of mass 174	0.58 (0.81)
174	50.01 - 100.00% of mass 95	71.06
175	5.00 - 9.00% of mass 174	5.15 (7.25)
176	95.01 - 100.99% of mass 174	68.35 (96.18)
177	5.00 - 9.00% of mass 176	4.56 (6.67)

Data File: /var/chem/msdd.i/25sep10.b/d092501.d

Date : 25-SEP-2010 08:26

Client ID: BFB

Instrument: msdd.i

Sample Info: 1.0mL #1936-287;BFB;BFB

Volume Injected (uL): 1.0

Operator: ccy

Column phase:

Column diameter: 2.00

Data File: d092501.d
Spectrum: Avg. Scans 560-562 (8.94), Background Scan 552
Location of Maximum: 95.00
Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2541	72.00	1493	111.00	183	147.00	206
37.00	14344	73.00	13150	112.00	124	148.00	769
38.00	12637	74.00	51736	113.00	106	149.00	178
39.00	4902	75.00	161792	115.00	333	150.00	262
43.00	25	76.00	13936	116.00	963	152.00	62
44.00	1033	77.00	1596	117.00	1637	153.00	172
45.00	2777	78.00	1276	118.00	971	154.00	130
46.00	172	79.00	6491	119.00	1401	155.00	628
47.00	4471	80.00	1846	123.00	86	156.00	64
48.00	1712	81.00	6559	124.00	109	157.00	478
49.00	13107	82.00	1312	125.00	60	159.00	411
50.00	66008	83.00	156	126.00	142	161.00	303
51.00	19960	86.00	307	128.00	1146	172.00	60
52.00	953	87.00	12094	129.00	480	173.00	1942
55.00	658	88.00	11552	130.00	1165	174.00	239168
56.00	4257	91.00	1028	131.00	385	175.00	17336
57.00	8216	92.00	8787	133.00	96	176.00	230016
58.00	347	93.00	13064	134.00	61	177.00	15340
59.00	65	94.00	36112	135.00	525	178.00	401
60.00	2802	95.00	336576	137.00	518	191.00	74
61.00	14251	96.00	23504	139.00	70	207.00	150
62.00	14310	97.00	816	140.00	161	249.00	60
63.00	10663	103.00	77	141.00	2713	281.00	707
64.00	980	104.00	1275	142.00	302	282.00	107
67.00	846	105.00	503	143.00	2776	283.00	123
68.00	31680	106.00	1119	144.00	107		
69.00	31328	107.00	337	145.00	223		
70.00	2337	110.00	76	146.00	492		

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for

For corrections ca **Ausha Scott at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

Project Manager Jessica Vickers (TtEMI)

Collected by: (Print and Sign) Brian Croft Brian Croft

Company Tetra Tech EMI Email jessica.vickers@tetratech.com brian.croft@tetratech.com

Address 1955 Evergreen Blvd Duluth, GA 30096 City Duluth State GA Zip 30096

Phone 678.775.3104 Fax 678.775.3139

Project Info:
P.O. # _____
Project # TtEMF-05-001-0136
Project Name Maynard Terrace

Turn Around Time:
☐ Normal
☒ Rush 24 hr results due on Monday 9-27
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	MTM-A-08	34211	9-24-10	1535		-30			
02A	MTM-A-09	05406	9-24-10	1600		-29			
03A	MTM-A-10	05362	9-24-10	1640		-30			
04A	MTM-A-11	12687	9-24-10	1730		-30			
05A	MTM-A-FB2	25300	9-24-10	1200		-30			

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Brian Croft	9-24-10 / 1900	FedEx	9-24-10 / 1900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
FedEx		[signature] AIL	9/25/10 0910
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		NA	good	Yes No None	1009578

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 1009578A

Client

Ms. Jessica Vickers
Tetra Tech EM, Inc.
1955 Evergreen Blvd.
Bldg. 200, Suite 300
Duluth, GA 30096

Sales Rep: TL

Phone

678-775-3080

Fax

Date Promised: 09/27/10 12:00 pm
Date Completed: 9/27/10
Date Received: 9/25/10
PO#:
Project#: TTEMF-45-001-0136 Maynard Terrace

Total $: $ 1,775.32
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A(cancelled	MTM-A-08	Modified TO-15	9/24/2010	28.5 "Hg	$0.00
02A(cancelled	MTM-A-09	Modified TO-15	9/24/2010	28.5 "Hg	$0.00
03A(cancelled	MTM-A-10	Modified TO-15	9/24/2010	23.0 "Hg	$0.00
04A(cancelled	MTM-A-11	Modified TO-15	9/24/2010	29.0 "Hg	$0.00
05A	MTM-A-FB2	Modified TO-15	9/24/2010	29.5 "Hg	$290.00
06A	Lab Blank	Modified TO-15	NA	NA	$0.00
07A	CCV	Modified TO-15	NA	NA	$0.00
08A	LCS	Modified TO-15	NA	NA	$0.00
08AA	LCSD	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (100% Certified) (5) @ $55.00 each., Shipme	$275.00
	eCVP (4) @ $5.00 each.	$20.00
	Shipping Charges (Shipped Via Fed-Ex Next Day Priority on 9/23/10)	$302.32
	Fitting w/ Pink Ferrule (8) @ $2.00 each.	$16.00
	Tubing-Teflon (50) @ $2.00 each.	$100.00
	Other (4) @ $193.00 each., Expedited analytical fee	$772.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: EPA START/14921

BILL TO: Ms. Jessica Vickers
Tetra Tech EM, Inc.
1955 Evergreen Blvd.
Bldg. 200, Suite 300
Duluth, GA 30096

Analysis Code: TO-14A

REMARKS: A 100% surcharge is applied for a 24 hour turnaround time.

TERMS:

Reporting Method: Modified TO-15

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

Sample Discrepancy Report

Identification

Initiated By: MW **Project ID:**14921 **PM**: AS **Date:** 9/25/2010 **Discrepancy Type:** ☐ **1.** ☒ **2.** ☐ **3.**

Workorder(s) affected:1009578 **Sample(s) affected:** all

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.

1.2. ☐ No brass cap on canister.

1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.

1.6. ☐ COC improperly relinquished / received.

1.7. ☐ Sample tags / can numbers do not match the COC.

1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).

1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).

1.10. ☐ ID-none on the sample Tag/Blank

1.11. ☐ Other (describe below).

Describe the Discrepancy: _____

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

2.1. ☐ COC was not received with samples.

2.2. ☒ Analysis method(s) is ☒ not specified / ☐ incorrectly specified (check one) on the COC.

2.3. ☐ Incorrect sampling media / container for analysis requested.

2.4. ☐ Number of samples on the COC does not match the number of samples that were received.

2.5. ☐ Samples were received expired.

2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).

2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.

2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.

2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.

2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.

2.11. ☐ Environmental Supply Company valves

2.12. ☐ Sorbent samples-sampling volume was not provided

2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.

2.14. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):

- ☐ Canister failed leak check on two manifolds,
- ☐ Canister valve was open,
- ☐ Brass nut was loose/not present.
- ☐ Sample can be analyzed
- ☐ Cannot be analyzed

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.

2.16. ☒ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).

2.17. ☐ Canister Trip Blank received at low vacuum (< 25"Hg).

2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).

2.19. ☐ Other (describe below)

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐

Describe the Discrepancy: 01A-04A: all high vac: 28.5"Hg, 28.5"Hg, 23.0"Hg and 29.0"Hg

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

Project Manager Notification ☒ **Section 2 Complete** ☐ **Section 3 Complete**

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:_____ Date: _____

☒ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:AS Person notified: J. Vickers Date: 9/27/2010

☒ Waiting for Client Reply

Comments: **Called and emailed the client. Client cancelled analysis for sampels 01A-04A**

_____

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi - [(Initial Pressure ("Hg)) (14.7 psi / 30 "Hg)]}}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi + Initial Pressure (psi)}}$$

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 List

Modified TO-15

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
67-64-1	Acetone	2.0	
67-63-0	2-Propanol	2.0	
75-15-0	Carbon Disulfide	0.50	
107-05-1	3-Chloropropene	2.0	
75-09-2	Methylene Chloride	0.50	
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	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
110-82-7	Cyclohexane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
540-84-1	2,2,4-Trimethylpentane	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
142-82-5	Heptane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
123-91-1	1,4-Dioxane	2.0	
75-27-4	Bromodichloromethane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-10-1	4-Methyl-2-pentanone	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
591-78-6	2-Hexanone	2.0	
124-48-1	Dibromochloromethane	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
75-25-2	Bromoform	0.50	
98-82-8	Cumene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
103-65-1	Propylbenzene	0.50	
622-96-8	4-Ethyltoluene	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	

Compound List

Modified TO-15

CAS Number	Compound	Detection Limit ppbv	Type
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
74-87-3	Chloromethane	2.0	
75-01-4	Vinyl Chloride	0.50	
106-99-0	1,3-Butadiene	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	
64-17-5	Ethanol	2.0	
76-13-1	Freon 113	0.50	
75-35-4	1,1-Dichloroethene	0.50	

Air Toxics LTD.

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Media Certification Report

Canister Number: 6L#34211 w/Filter
Can#: 75011-34211
Date : 09/21/10 5:45
Data File: s092028sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1,3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	105.00	% Recovery
Toluene-d8	2037-26-5	104.00	% Recovery
4-Bromofluorobenzene	460-00-4	110.00	% Recovery

Air Toxics LTD.

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Media Certification Report

Canister Number: 6L#05406 w/Filter
Can#: 75011-05406
Date : 09/21/10 6:22
Data File: s092029sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1,3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	107.00	% Recovery
Toluene-d8	2037-26-5	107.00	% Recovery
4-Bromofluorobenzene	460-00-4	108.00	% Recovery

Air Toxics LTD.

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Media Certification Report

Canister Number: 6L#05362 w/filter
Can#: 75011-05362
Date : 09/07/10 19:53
Data File: o090713sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1,3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	100.00	% Recovery
Toluene-d8	2037-26-5	97.00	% Recovery
4-Bromofluorobenzene	460-00-4	94.00	% Recovery

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Media Certification Report

Canister Number: 6L#05362 w/filter
Can#: 75011-05362a
Date : 09/07/10 19:53
Data File: o090713sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	99.00	% Recovery
Toluene-d8	2037-26-5	95.00	% Recovery
4-Bromofluorobenzene	460-00-4	94.00	% Recovery

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Media Certification Report

Canister Number: 6L#12687 W/Filter
Can#: 75011-12687
Date : 08/13/10 1:41
Data File: o081217sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1,3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	103.00	% Recovery
Toluene-d8	2037-26-5	100.00	% Recovery
4-Bromofluorobenzene	460-00-4	97.00	% Recovery

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1-800-985-5955

Media Certification Report

Canister Number: 6L#12687 W/Filter
Can#: 75011-12687a
Date : 08/13/10 1:41
Data File: o081217sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	100.00	% Recovery
Toluene-d8	2037-26-5	101.00	% Recovery
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

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Media Certification Report

Canister Number: 6L#25300 W/Filter
Can#: 75011-25300
Date : 08/13/10 1:05
Data File: o081216sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1,3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	100.00	% Recovery
Toluene-d8	2037-26-5	100.00	% Recovery
4-Bromofluorobenzene	460-00-4	97.00	% Recovery

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1-800-985-5955

Media Certification Report

Canister Number: 6L#25300 W/Filter
Can#: 75011-25300a
Date : 08/13/10 1:05
Data File: o081216sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	97.00	% Recovery
Toluene-d8	2037-26-5	100.00	% Recovery
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

DATA REVIEW CHECKLIST

Work Order #: 1009578A

A_1	A_2	W	T	R	Q	
☒	☐	☑	☐	☐	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☐	☐	The final report has the correct reporting list, special units, and header info.
n/a	☐	NA				Non-Standard sublist printed/verified, LOQ and LOD verified
		☑	☐	☐	☑	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☑	☐	☑	☐	Sample Discrepancy Report (SDR) is completed
	☐	NA	☐	NA	☐	Corrective Action issued - #
n/a	☐	☐	☑	☐	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* *CIRCLE (YES / NO)*

☒	☐	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☒	☐	☐	☐	☐	☐	Hold time is met for all samples
		☐	☐	☐	☐	Appropriate data qualifier flags are applied
		☐	☐	☐	☐	Manual integrations for samples and QC are properly documented
☒	☐	☐	☐		☐	Samples analyzed within the project or method specific clock
		☐	☐			Retention times have been verified
☒	☐	☐	☐		☐	Appropriate ICAL(s) included, %RSD Recalculation
		☑	☐		☐	At least one result per sample is verified against the target quant sheets/raw data
☒	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☒	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		NA	☐			TICs resemble reference spectra
		☐	☐			TICs between duplicate samples are consistent
n/a	☐	☑	☐	☐	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
n/a	☐	NA	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☐	☐			Special units for all samples in the final report are correctly calculated
		☐	☐			Manually entered results checked (i.e. TPH/NMOC)
☒	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☒	☐	☑				Date MDL(s) performed per instrument(s) 12/11/09
☒	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☒	☐	☑				Final pressure consistent with canister size (6L vs. 1L)
☒	☐	☑				Verify receipt pressures MMB 9/26/10
☒	☐	☑				Verify canister ID #'s
		☑	☐	☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		☐	☐	☐		Final PDF report reviewed for correctness

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)

A/R: Ø out in CCV, LCS, LCSD
"B" Flag Bromomethane in LAB BLANK → no detections in the asso. samples
01A-05A analyzed on MSD-D 9/25/10

T/Q: -05A → FB (all NDs)

A_1/A_2 (Analytical Review/Date)	W/T (Write-up/Tech Review/Date)	R* (Report Review/Date)	Q (QA Review/Date)
A_1: [illegible] 9/26/10	W: MMBailey 9-26-10	R:	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.
* Report Review is completed for DoD & Client Specific projects only.

Not Applicable