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Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 1502053AR1

	Page Nos. From	Page Nos. To
1. Work Order Cover Page & Laboratory Narrative	1	5
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	6	172
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	173	181
b. Surrogate Recover Summary Form (If Applicable)	182	182
c. Internal Standard Summary Form (If Applicable)	183	183
d. Duplicate Results Summary Sheet	184	185
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	186	365
g. MDL Study (If Applicable)	366	394
h. Continuing Calibration Verification Data (Summary Sheet	395	410
i. Second Source LCS(Summary + Raw Data)	411	438
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	439	439
l. GC/MS Tune (Results + Raw Data)	440	459
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	460	461
b. Chain-of-Custody Records	462	462
c. Sample Log-In Sheet	463	463
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	464	466
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	467	468
g. Variance Table	--	--
h. Canister Certification	469	478
i. Data Review Check Sheet	479	480

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	6/29/15
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 1502053AR1

Work Order Summary

CLIENT:	Mr. Terry Taylor Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577	**BILL TO:**	Accounts Payable Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577
PHONE:	(914) 251-0400	**P.O. #**	
FAX:		**PROJECT #**	Building 6 VI
DATE RECEIVED:	02/05/2015	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	02/10/2015		
DATE REISSUED:	06/26/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	B6-4IA	Modified TO-15	5.5 "Hg	4.8 psi
02A	B6-5IA	Modified TO-15	6.9 "Hg	4.9 psi
03A	B6-AA-1	Modified TO-15	4.5 "Hg	4.8 psi
04A	B6-3IA	Modified TO-15	4.5 "Hg	4.9 psi
05A	B6-3IAD	Modified TO-15	7.3 "Hg	4.8 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: Heidi Mayo

Technical Director

DATE: 06/26/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
Anderson Mulholland & Associates, Inc.
Workorder# 1502053AR1

Five 6 Liter Summa Canister (100% Certified) samples were received on February 05, 2015. 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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. All the canisters used for this project have been certified to the Reporting Limit for the target analytes included in this workorder. Concentrations that are below the level at which the canister was certified may be false positives.

The workorder was reissued on June 26, 2015 to report additional compounds per client's request.

Due to the MDL study performed on instrument MSD-V, the reporting limit for alpha-Chlorotoluene was raised from 0.10 ppbv to 0.50 ppbv.

Ethanol, Acetone, and 2-Propanol exceeded the instrument's calibration range for sample B6-AA-1 and were flagged accordingly.

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, LOD, or MDL value. See data page for project specific U-flag definition.

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
B6-4IA	1502053AR1-01	2/ 3/2015	2/ 5/2015	NA	3	2/ 6/2015	NA	Good
B6-5IA	1502053AR1-02	2/ 3/2015	2/ 5/2015	NA	3	2/ 6/2015	NA	Good
B6-AA-1	1502053AR1-03	2/ 3/2015	2/ 5/2015	NA	3	2/ 6/2015	NA	Good
B6-3IA	1502053AR1-04	2/ 3/2015	2/ 5/2015	NA	3	2/ 6/2015	NA	Good
B6-3IAD	1502053AR1-05	2/ 3/2015	2/ 5/2015	NA	3	2/ 6/2015	NA	Good
Lab Blank	1502053AR1-06	NA	NA	NA	NA	2/ 6/2015	NA	Good
CCV	1502053AR1-07	NA	NA	NA	NA	2/ 6/2015	NA	Good
LCS	1502053AR1-08	NA	NA	NA	NA	2/ 6/2015	NA	Good
LCSD	1502053AR1-08	NA	NA	NA	NA	2/ 6/2015	NA	Good

Sample Results and Raw Data

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

Client Sample ID: B6-4IA

Lab ID#: 1502053AR1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.45	0.80	2.2
Chloromethane	0.81	0.72 J	1.7	1.5 J
Freon 11	0.16	0.24	0.91	1.4
Ethanol	0.81	4.2	1.5	7.9
Freon 113	0.16	0.064 J	1.2	0.49 J
Acetone	0.81	9.4	1.9	22
2-Propanol	0.81	36	2.0	89
Methylene Chloride	0.32	0.63	1.1	2.2
Hexane	0.16	0.78	0.57	2.7
2-Butanone (Methyl Ethyl Ketone)	0.81	0.52 J	2.4	1.5 J
Chloroform	0.16	0.33	0.79	1.6
Carbon Tetrachloride	0.16	0.082 J	1.0	0.52 J
Benzene	0.16	0.089 J	0.52	0.28 J
Heptane	0.16	0.073 J	0.66	0.30 J
4-Methyl-2-pentanone	0.16	0.37	0.66	1.5
Toluene	0.16	1.7	0.61	6.3
Ethyl Benzene	0.16	0.17	0.70	0.74
m,p-Xylene	0.16	0.58	0.70	2.5
o-Xylene	0.16	0.096 J	0.70	0.42 J

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Client Sample ID: B6-4IA

Lab ID#: 1502053AR1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020610r1**	**Date of Collection:**	**2/3/15 1:41:00 PM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**2/6/15 12:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.45	0.80	2.2
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.81	0.72 J	1.7	1.5 J
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.81	Not Detected	3.1	Not Detected
Chloroethane	0.81	Not Detected	2.1	Not Detected
Freon 11	0.16	0.24	0.91	1.4
Ethanol	0.81	4.2	1.5	7.9
Freon 113	0.16	0.064 J	1.2	0.49 J
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Acetone	0.81	9.4	1.9	22
2-Propanol	0.81	36	2.0	89
Carbon Disulfide	0.81	Not Detected	2.5	Not Detected
3-Chloropropene	0.81	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	0.63	1.1	2.2
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Hexane	0.16	0.78	0.57	2.7
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.81	0.52 J	2.4	1.5 J
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Tetrahydrofuran	0.81	Not Detected	2.4	Not Detected
Chloroform	0.16	0.33	0.79	1.6
1,1,1-Trichloroethane	0.16	Not Detected	0.88	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	0.082 J	1.0	0.52 J
2,2,4-Trimethylpentane	0.81	Not Detected	3.8	Not Detected
Benzene	0.16	0.089 J	0.52	0.28 J
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Heptane	0.16	0.073 J	0.66	0.30 J
Trichloroethene	0.16	Not Detected	0.87	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.75	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	0.37	0.66	1.5
Toluene	0.16	1.7	0.61	6.3
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.88	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.81	Not Detected	3.3	Not Detected

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Client Sample ID: B6-4IA

Lab ID#: 1502053AR1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020610r1**	**Date of Collection:**	**2/3/15 1:41:00 PM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**2/6/15 12:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Ethyl Benzene	0.16	0.17	0.70	0.74
m,p-Xylene	0.16	0.58	0.70	2.5
o-Xylene	0.16	0.096 J	0.70	0.42 J
Styrene	0.16	Not Detected	0.69	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.80	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.80	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.80	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.80	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.80	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.81	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,2,4-Trichlorobenzene	0.81	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.81	Not Detected	8.6	Not Detected
Naphthalene	0.81	Not Detected	4.2	Not Detected

J = Estimated value.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

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TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020610r1.d
Lab Smp Id: 1502053Ar1-01A
Inj Date : 06-FEB-2015 12:54
Operator : ef Inst ID: msdv.i
Smp Info : 250mL# 3735
Misc Info : 5.5"Hg - 4.8psi
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 26-Jun-2015 11:38 dbailey Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1
Dil Factor: 1.62000
Integrator: HP RTE Compound Sublist: TO15Nmdl.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
* 54 Bromochloromethane							CAS #: 74-97-5	
15.934	15.934	(1.000)	130	178989	5.00000		80.00- 120.00	100.00
15.934	15.934	(1.000)	128	141507			0.00- 30.00	79.06
15.934	15.934	(1.000)	49	408604			0.00- 30.00	228.28
* 71 1,4-Difluorobenzene							CAS #: 540-36-3	
17.305	17.305	(1.000)	114	785028	5.00000		80.00- 120.00	100.00
17.305	17.305	(1.000)	88	120269			0.00- 30.00	15.32
* 92 Chlorobenzene-d5							CAS #: 3114-55-4	
22.205	22.205	(1.000)	117	623974	5.00000		80.00- 120.00	100.00
22.205	22.205	(1.000)	82	340361			0.00- 30.00	54.55
$ 65 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
16.756	16.756	(1.052)	65	300397	5.35424	5.354	80.00- 120.00	100.00
16.756	16.756	(1.052)	67	142714			25.13- 85.13	47.51
$ 80 Toluene-d8							CAS #: 2037-26-5	
19.879	19.879	(1.149)	98	750175	5.10367	5.104	80.00- 120.00	100.00
19.857	19.879	(1.147)	70	77223			0.00- 40.74	10.29

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

$  80 Toluene-d8 (continued)
 19.857  19.879 (1.147)   100    478114                    36.73-  96.73    63.73
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    290849 4.97436    4.974  80.00- 120.00   100.00
 23.678  23.704 (1.066)    95    366827                   95.17- 155.17   126.12
 23.704  23.704 (1.067)   176    270508                   64.74- 124.74    93.01
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.240   5.202 (0.329)    85     39400 0.27612   0.4473  80.00- 120.00   100.00
  5.202   5.202 (0.326)    87      5208                    1.73-  61.73    13.22
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.166   7.053 (0.450)    50     41180 0.44709   0.7243  80.00- 120.00   100.00(a)
  7.128   7.053 (0.447)    52     13440                    1.57-  61.57    32.64
-------------------------------------------------------------------------------
   20 Trichlorofluoromethane/Fr11                   CAS #: 75-69-4
 11.184  11.184 (0.702)   101     22941 0.15083   0.2444  80.00- 120.00   100.00
 11.184  11.184 (0.702)   103     16330                   34.40-  94.40    71.18
-------------------------------------------------------------------------------
   24 Ethanol                                       CAS #: 64-17-5
 12.129  12.102 (0.761)    45     84641 2.58816    4.193  80.00- 120.00   100.00
 12.129  12.102 (0.761)    46     35768                    9.93-  69.93    42.26
 12.129  12.102 (0.761)    43     20624                    0.00-  50.31    24.37
-------------------------------------------------------------------------------
   28 Freon 113                                     CAS #: 76-13-1
 12.569  12.569 (0.789)   151      4324 0.03972  0.06435  80.00- 120.00   100.00(a)
 12.569  12.569 (0.789)   153      2841                   33.38-  93.38    65.70
 12.569  12.569 (0.789)   101      5183                   85.19- 145.19   119.87
-------------------------------------------------------------------------------
   31 Acetone                                       CAS #: 67-64-1
 12.816  12.816 (0.804)    58    240364 5.81587    9.422  80.00- 120.00   100.00
 12.816  12.816 (0.804)    43    883723                  326.03- 386.03   367.66
-------------------------------------------------------------------------------
   34 2-Propanol                                    CAS #: 67-63-0
 13.173  13.173 (0.827)    45   3661622 22.3845   36.263  80.00- 120.00   100.00
 13.173  13.173 (0.827)    43    654557                    0.00-  47.97    17.88
 13.173  13.173 (0.827)    59    113995                    0.00-  33.25     3.11
-------------------------------------------------------------------------------
   37 Methylene Chloride                            CAS #: 75-09-2
 13.667  13.640 (0.858)    84     19895 0.38983   0.6315  80.00- 120.00   100.00
 13.667  13.640 (0.858)    49     47698                  198.57- 258.57   239.75
 13.667  13.640 (0.858)    51     16726                   41.48- 101.48    84.07
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57     69272 0.47996   0.7775  80.00- 120.00   100.00
```

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

   43 Hexane (continued)
 14.381  14.381 (0.903)    43     53727                    41.32- 101.32    77.56
 14.381  14.381 (0.903)    86      6369                     0.00-  40.13     9.19
-------------------------------------------------------------------------------
   51 2-Butanone                                   CAS #: 78-93-3
 15.613  15.572 (0.980)    72      8953 0.31955   0.5177  80.00- 120.00   100.00(a)
 15.592  15.572 (0.979)    43     87812                   687.17- 747.17   980.81
 15.592  15.572 (0.979)    57      6608                    23.39-  83.39    73.81
-------------------------------------------------------------------------------
   55 Chloroform                                   CAS #: 67-66-3
 15.995  15.995 (1.004)    83     25492 0.20444   0.3312  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85     16216                    35.10-  95.10    63.61
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                         CAS #: 56-23-5
 16.458  16.458 (1.033)   119      6451 0.05087  0.08241  80.00- 120.00   100.00(a)
 16.458  16.458 (1.033)   117      6890                    67.96- 127.96   106.81
                   Sum of Peak Concentrations =  0.08241
-------------------------------------------------------------------------------
   64 Benzene                                      CAS #: 71-43-2
 16.756  16.756 (0.968)    78     10659 0.05469  0.08860  80.00- 120.00   100.00(a)
 16.783  16.756 (0.970)    77      3623                     0.00-  53.39    33.99
-------------------------------------------------------------------------------
   69 Heptane                                      CAS #: 142-82-5
 16.975  16.975 (0.981)    57      4175 0.04525  0.07330  80.00- 120.00   100.00(a)
 16.756  16.975 (0.968)   100      1535                     0.00-  51.16    36.77
 16.975  16.975 (0.981)    43     10637                   180.62- 240.62   254.78
-------------------------------------------------------------------------------
   79 4-Methyl-2-pentanone                         CAS #: 108-10-1
 19.588  19.588 (1.132)    43     61792 0.22660   0.3671  80.00- 120.00   100.00
 19.610  19.588 (1.133)    58     17514                     3.17-  63.17    28.34
 19.588  19.588 (1.132)    85      4926                     0.00-  40.09     7.97
-------------------------------------------------------------------------------
   81 Toluene                                      CAS #: 108-88-3
 19.991  19.991 (1.155)    91    230086 1.03610    1.678  80.00- 120.00   100.00
 19.991  19.991 (1.155)    92    133552                    28.34-  88.34    58.04
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                CAS #: 100-41-4
 22.315  22.315 (1.005)   106      9685 0.10512   0.1703  80.00- 120.00   100.00
 22.315  22.315 (1.005)    91     32225                   260.31- 320.31   332.73
-------------------------------------------------------------------------------
   96 m,p-Xylene                                   CAS #: 108-38-3
 22.480  22.480 (1.012)   106     33154 0.35630   0.5772  80.00- 120.00   100.00
 22.480  22.480 (1.012)    91     60145                   157.23- 217.23   181.41
-------------------------------------------------------------------------------
  100 o-Xylene                                     CAS #: 95-47-6
 23.002  23.002 (1.036)   106      5083 0.05942  0.09626  80.00- 120.00   100.00(a)
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
100 o-Xylene (continued)								
23.002	23.002	(1.036)	91	8456			167.76- 227.76	166.36

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020610r1.d
Lab Smp Id: 1502053Ar1-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 5.5"Hg - 4.8psi

Calibration Date: 06-FEB-2015
Calibration Time: 06:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	178989	-15.17
71 1,4-Difluorobenze	830109	498065	1162153	785028	-5.43
92 Chlorobenzene-d5	628752	377251	880253	623974	-0.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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: 26-Jun-2015 11:39

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 06Feb2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1502053Ar1-01A
Level: LOW
Operator: ef
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 5.5"Hg - 4.8psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	5.354	107.08	70-130
$ 80 Toluene-d8	5.000	5.104	102.07	70-130
$ 106 Bromofluorobenzene	5.000	4.974	99.49	70-130

Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

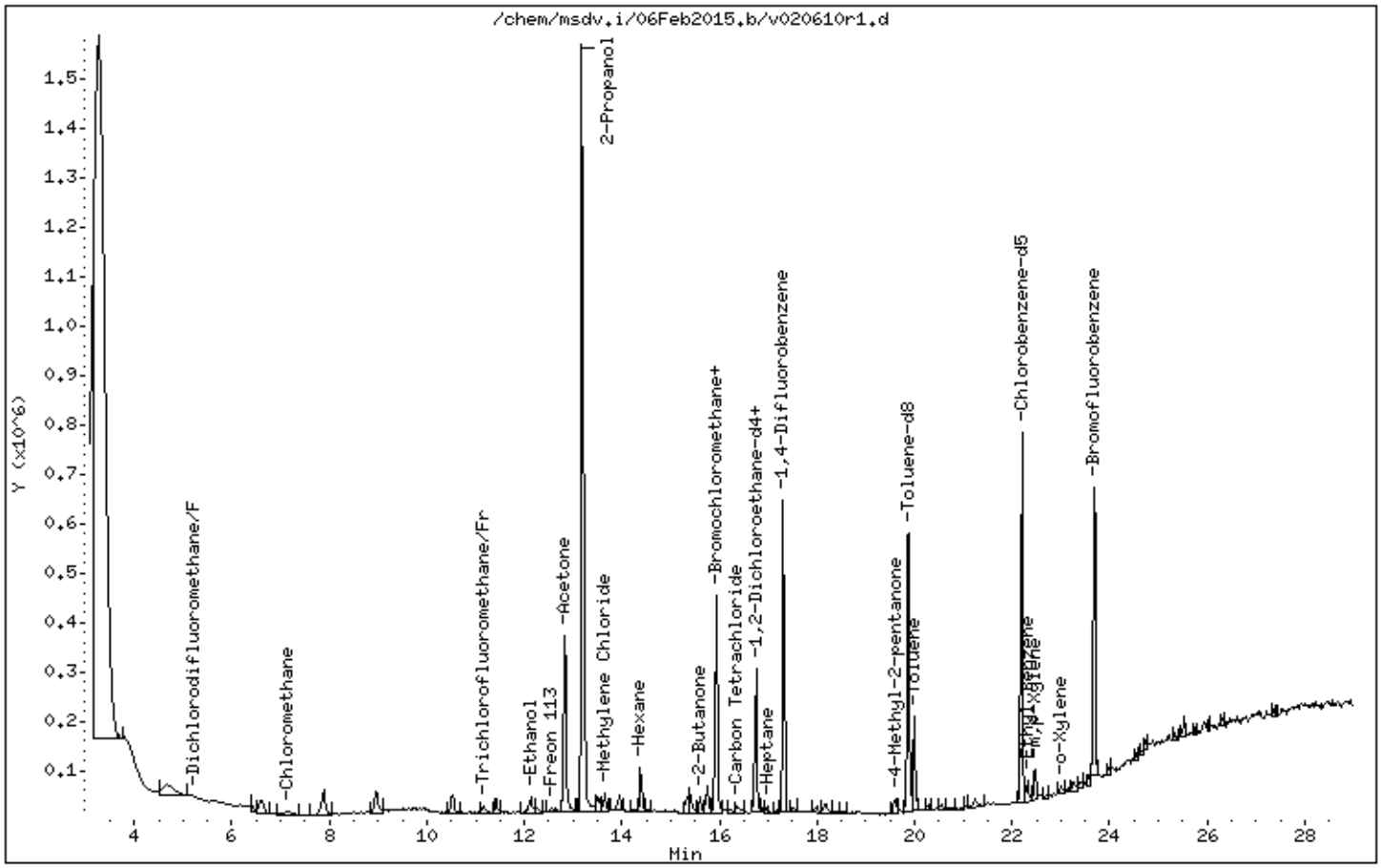
Instrument: msdv.i

Sample Info: 250mL# 3735

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

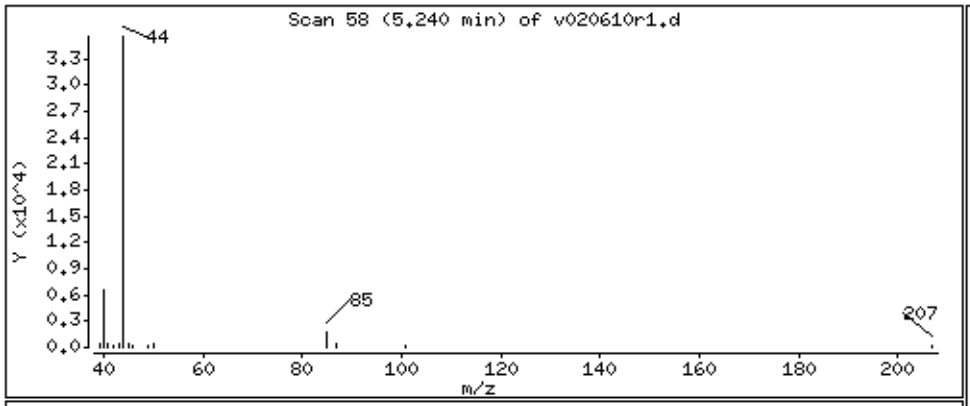
Operator: ef

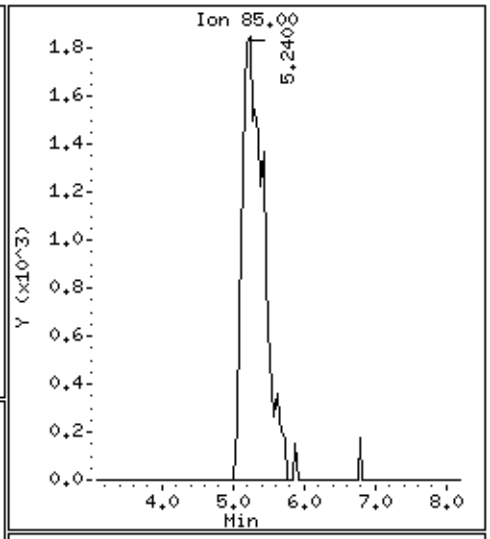
Column phase: RTx-624

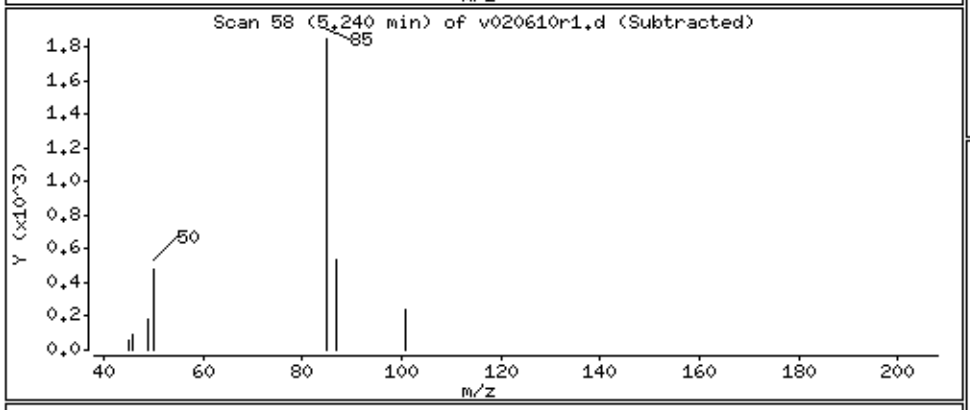
Column diameter: 0.32

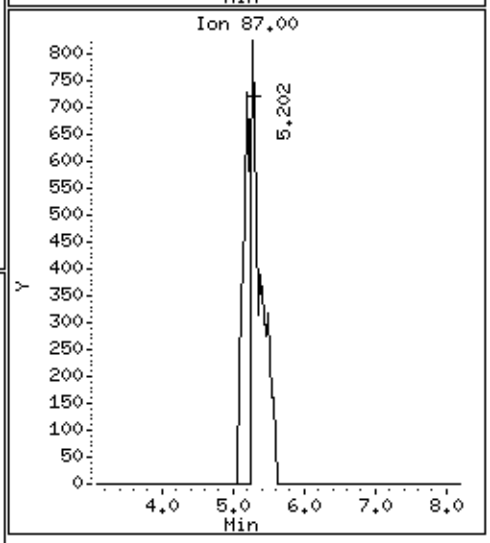
4 Dichlorodifluoromethane/Fr12

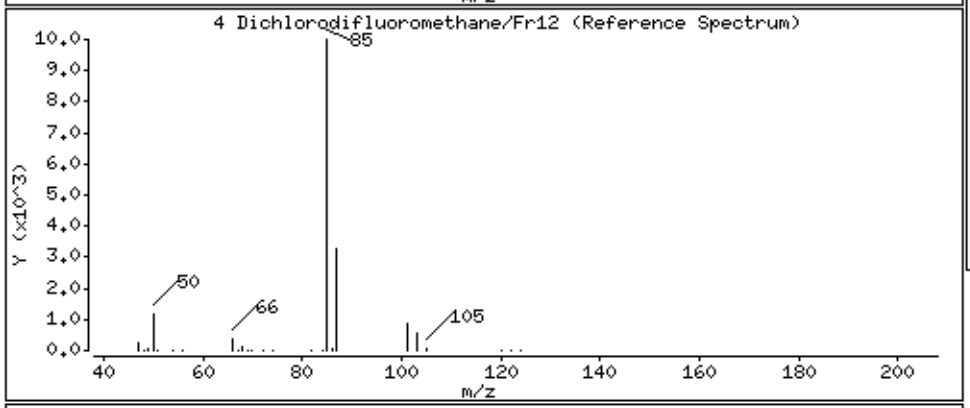
Concentration: 0.4473 PPBV

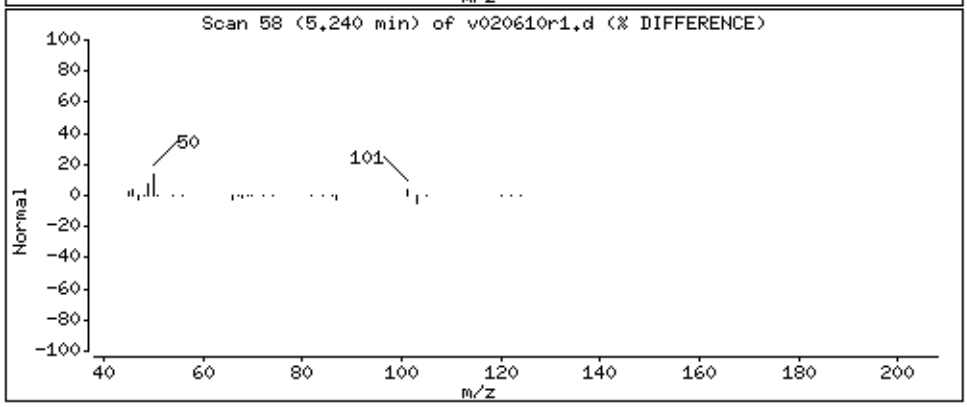












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

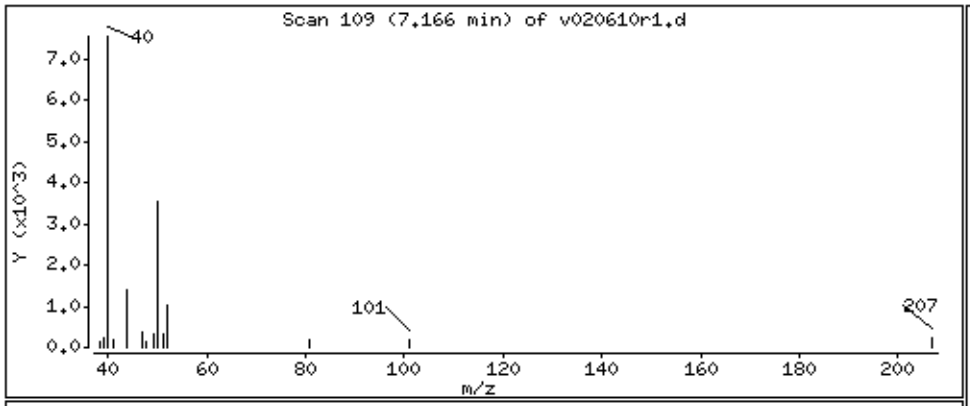
Operator: ef

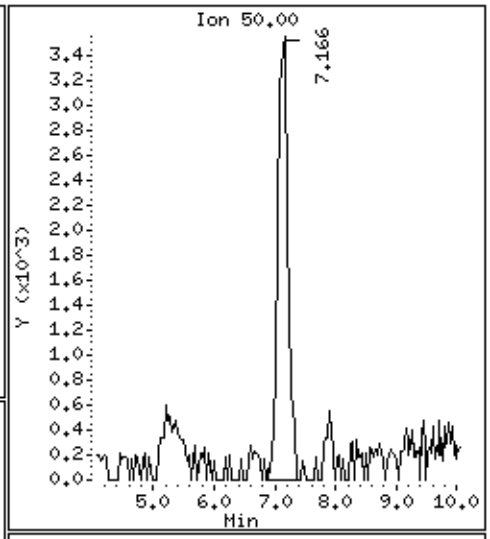
Column phase: RTx-624

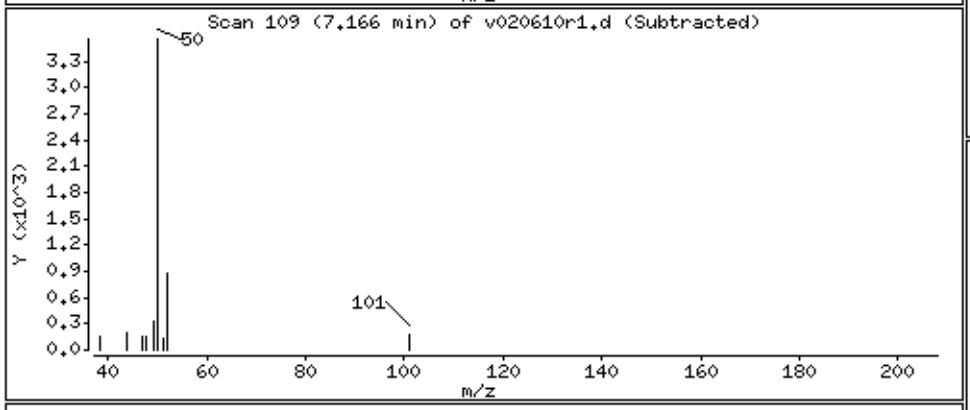
Column diameter: 0.32

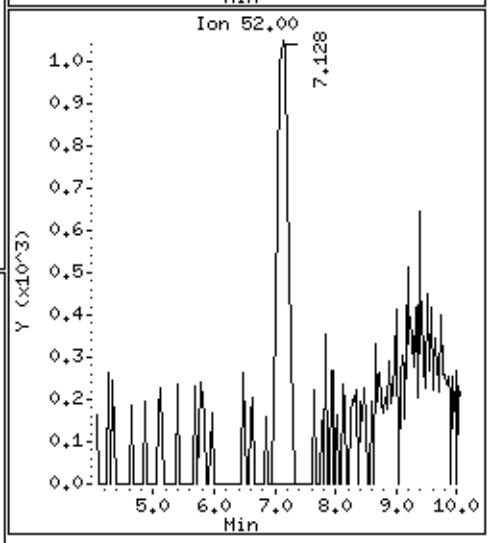
8 Chloromethane

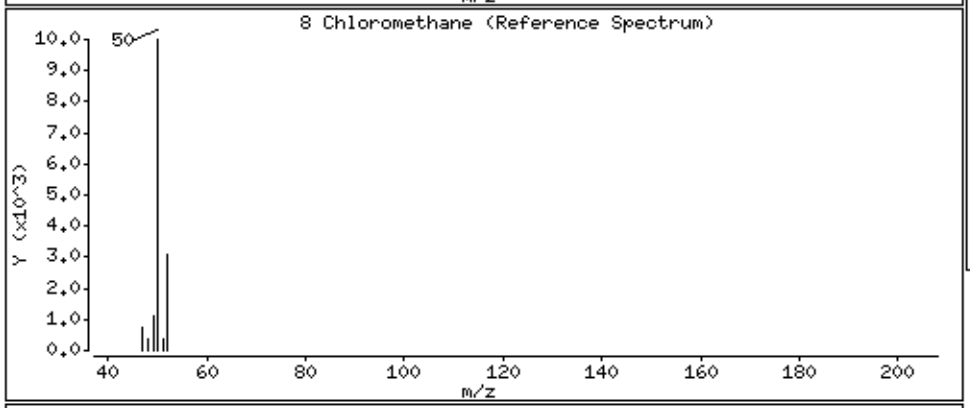
Concentration: 0.7243 PPBV

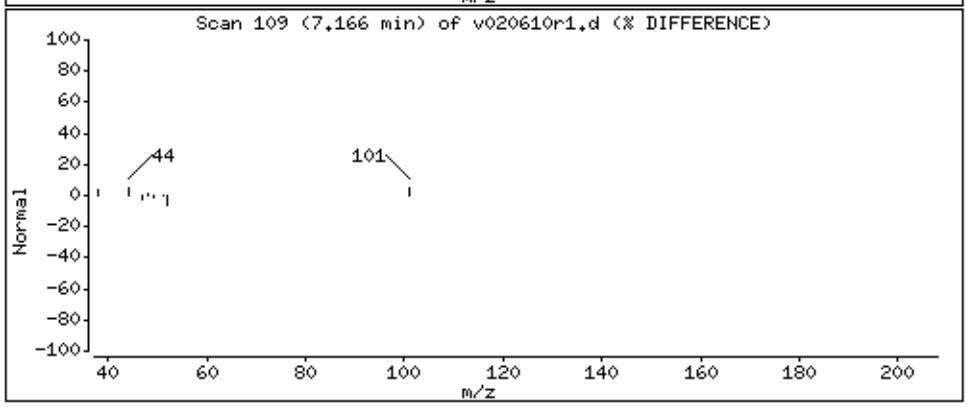












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

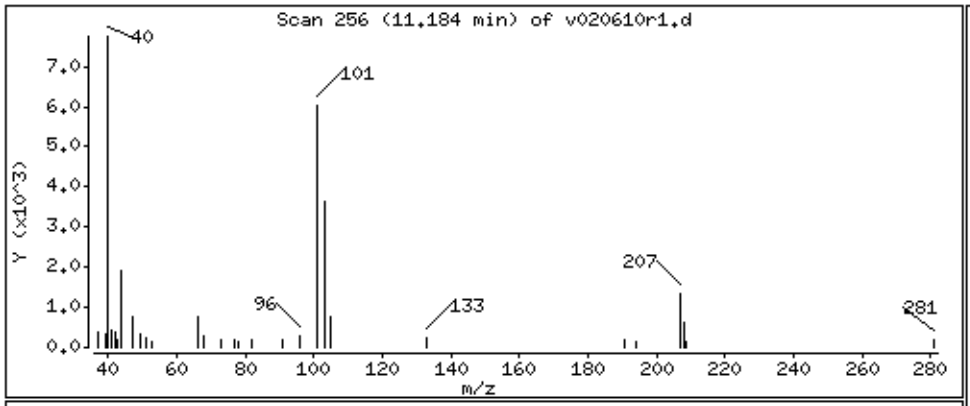
Operator: ef

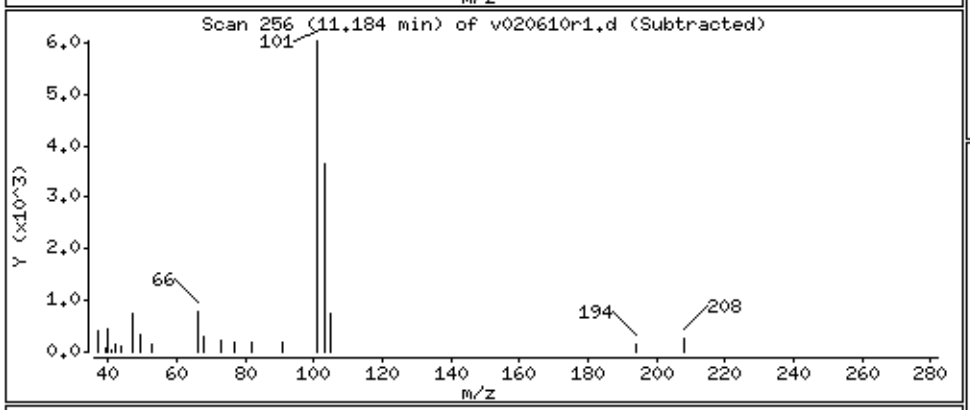
Column phase: RTx-624

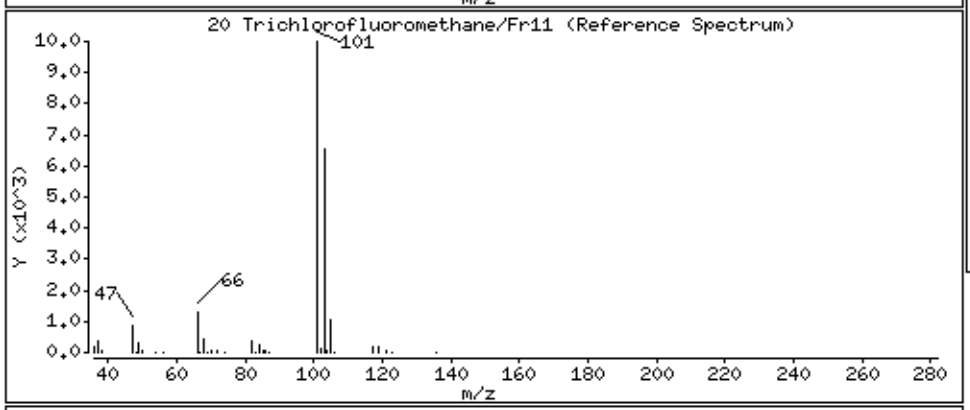
Column diameter: 0.32

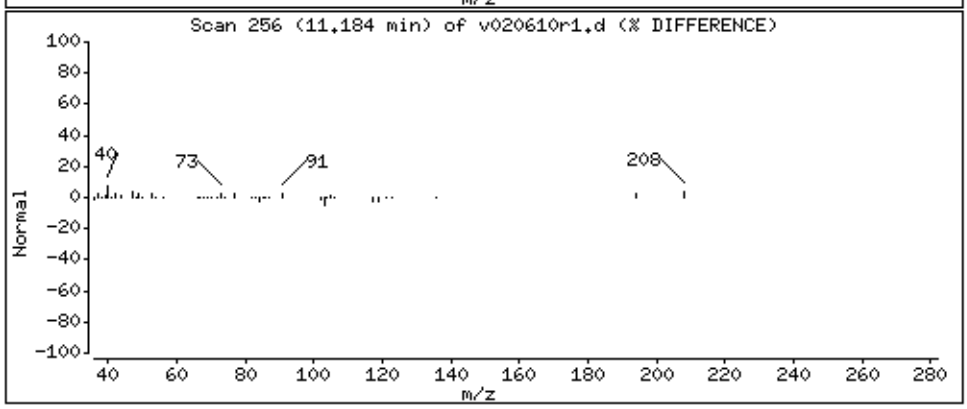
20 Trichlorofluoromethane/Fr11

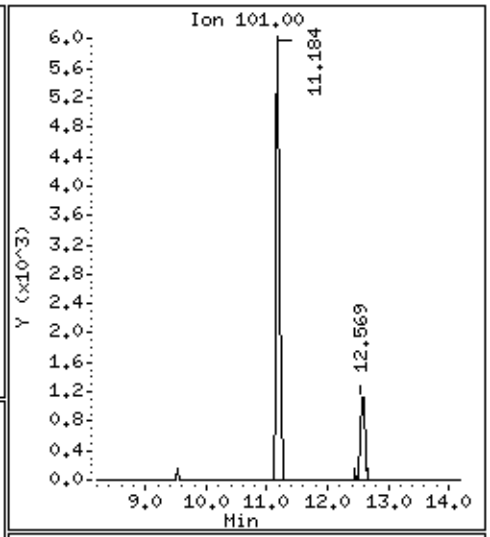
Concentration: 0.2444 PPBV

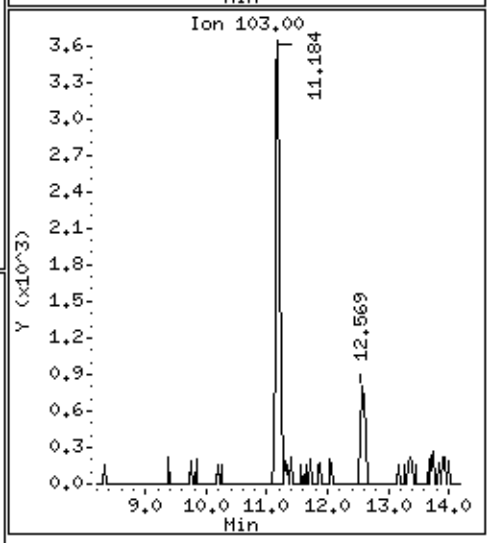












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

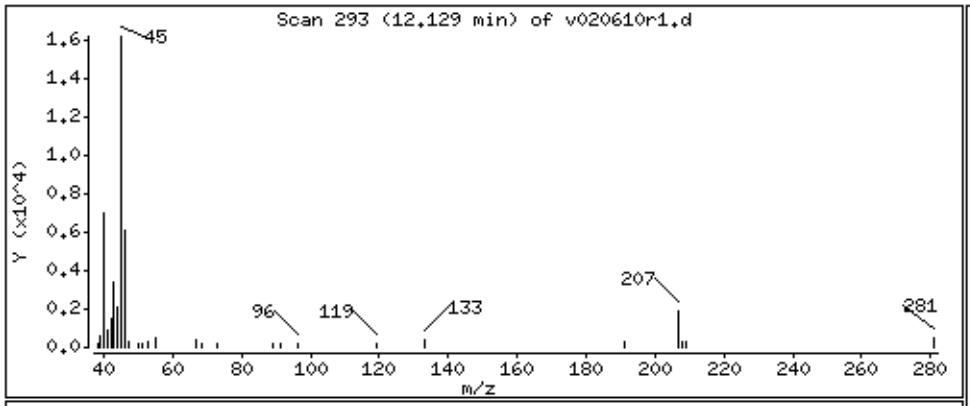
Operator: ef

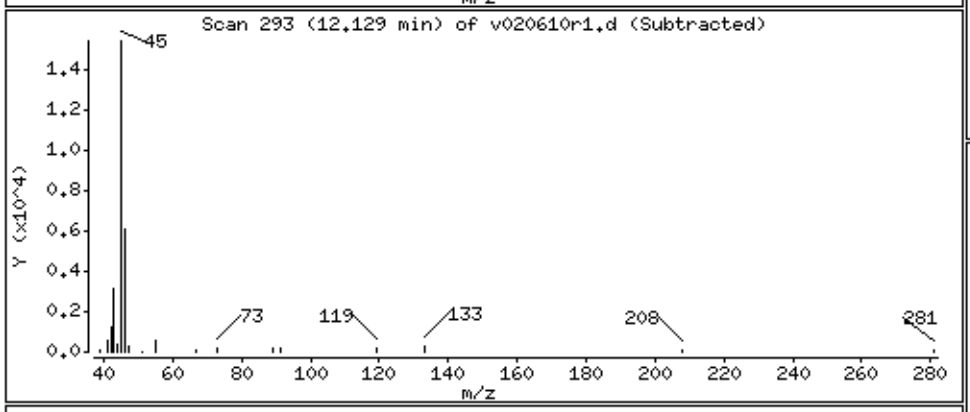
Column phase: RTx-624

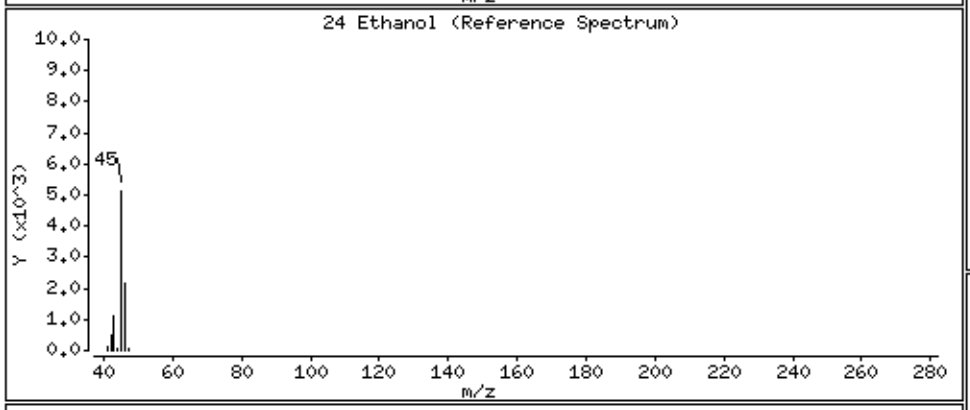
Column diameter: 0.32

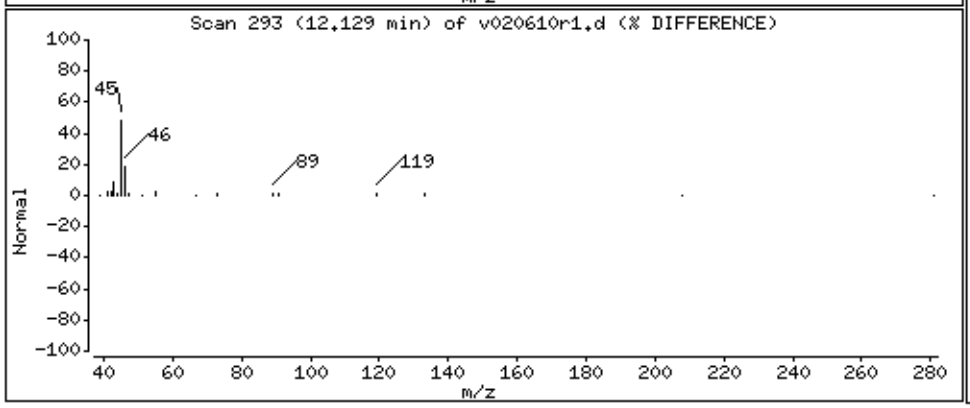
24 Ethanol

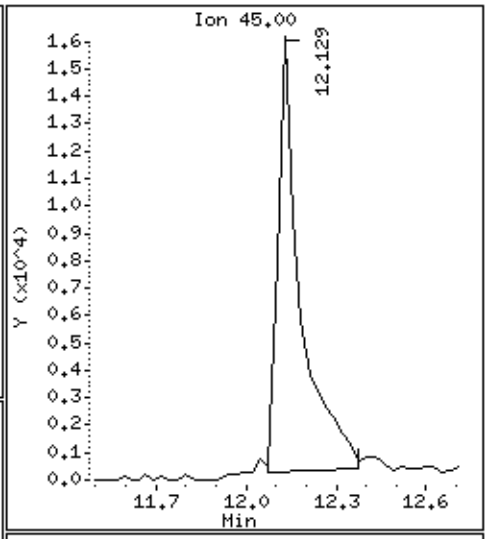
Concentration: 4.193 PPBV

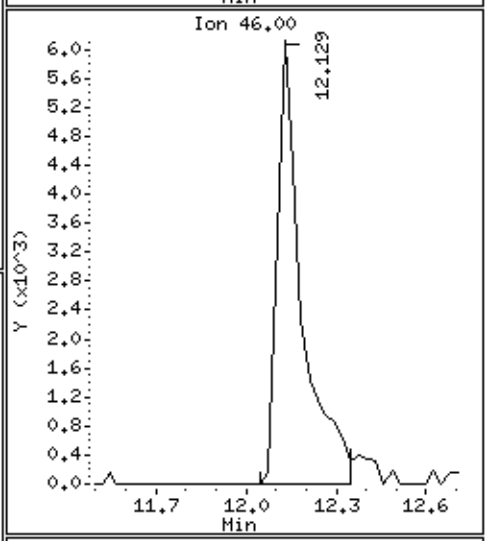


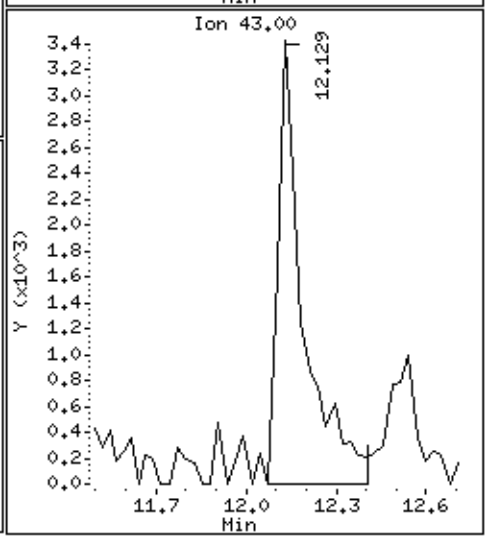












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

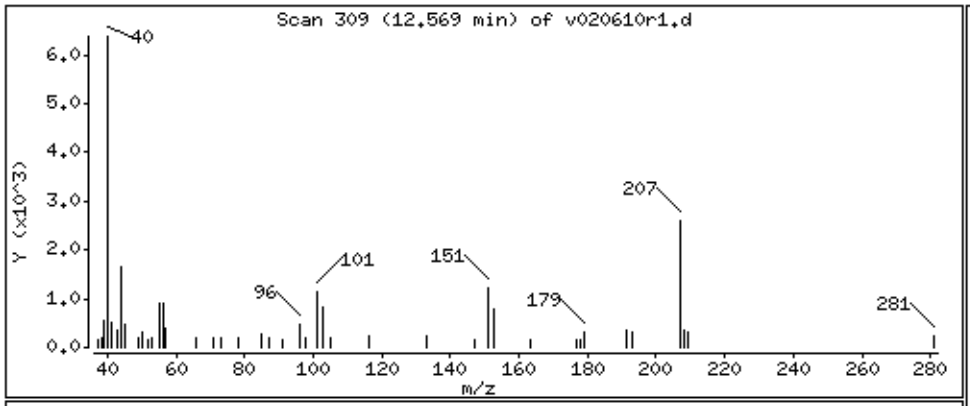
Operator: ef

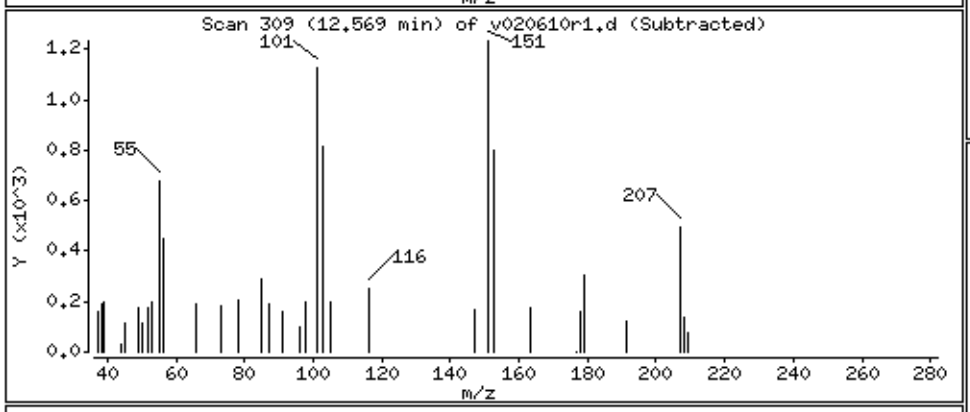
Column phase: RTx-624

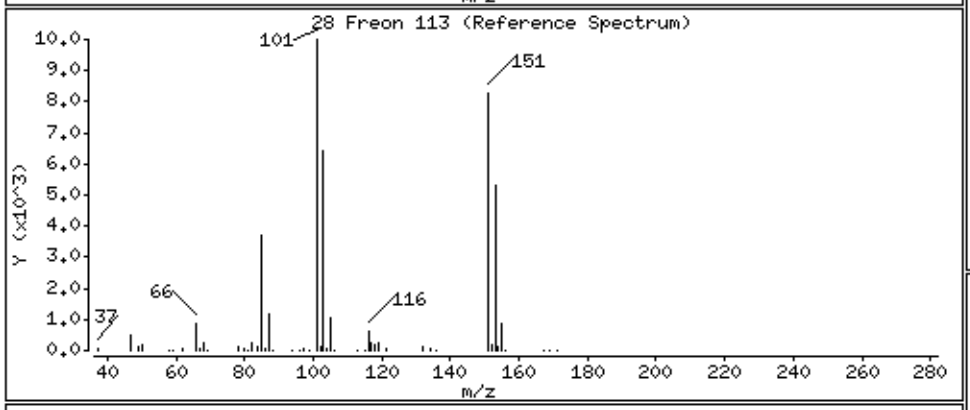
Column diameter: 0.32

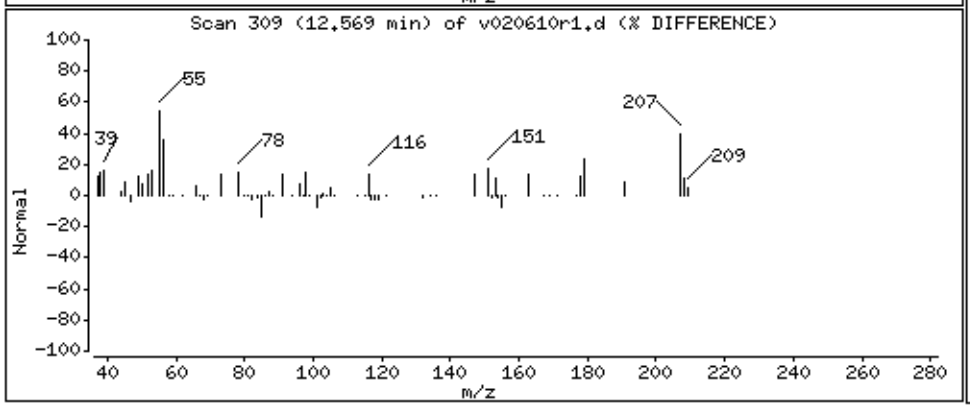
28 Freon 113

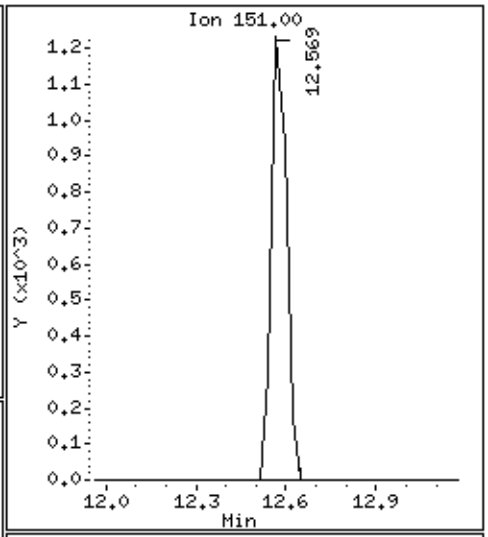
Concentration: 0.06435 PPBV

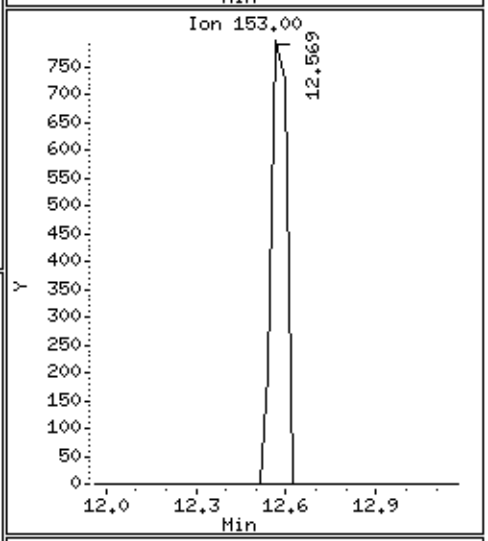


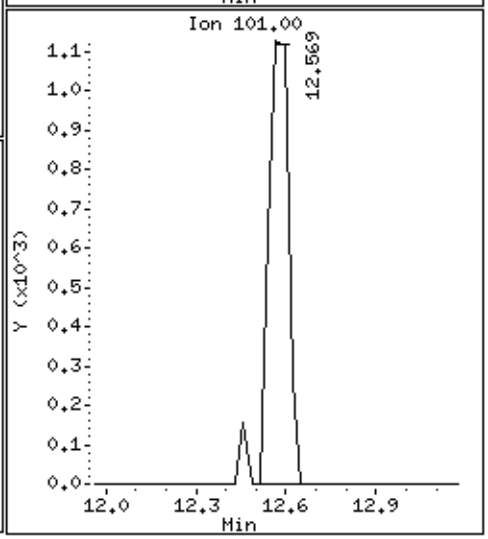












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

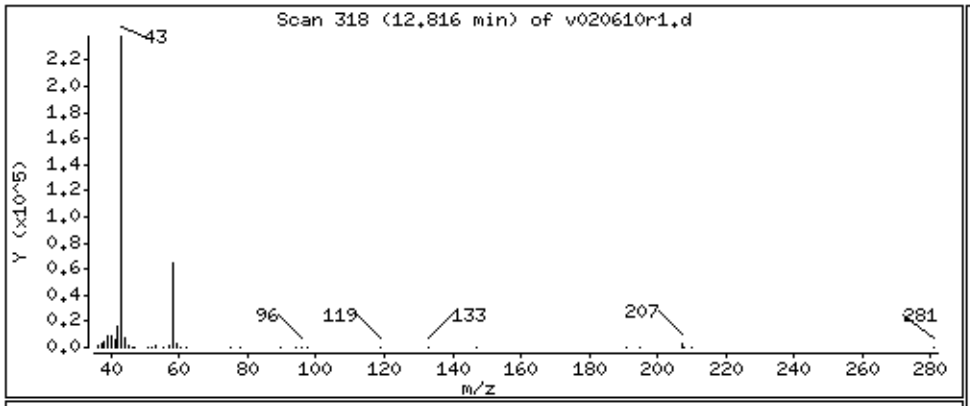
Operator: ef

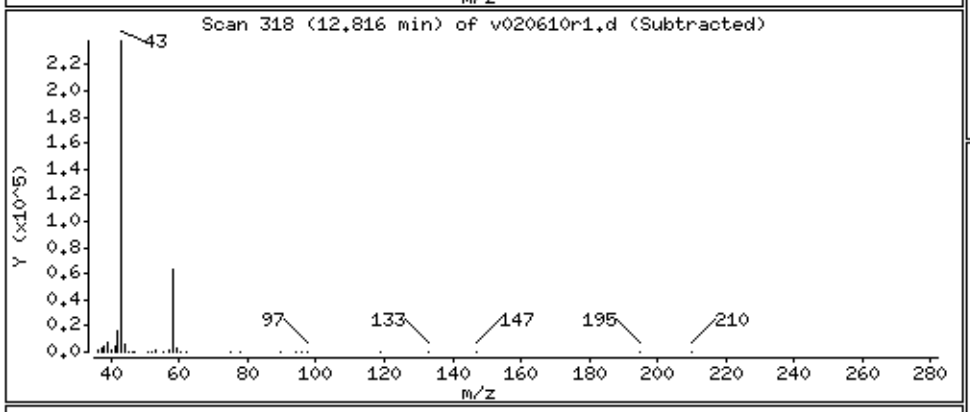
Column phase: RTx-624

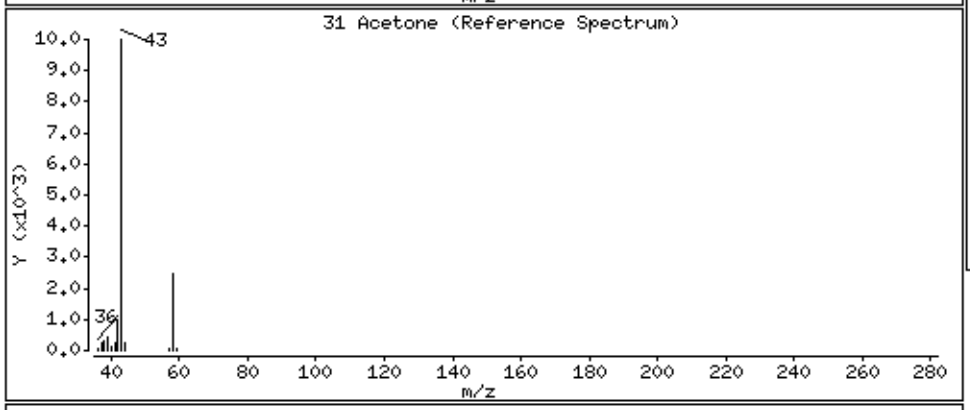
Column diameter: 0.32

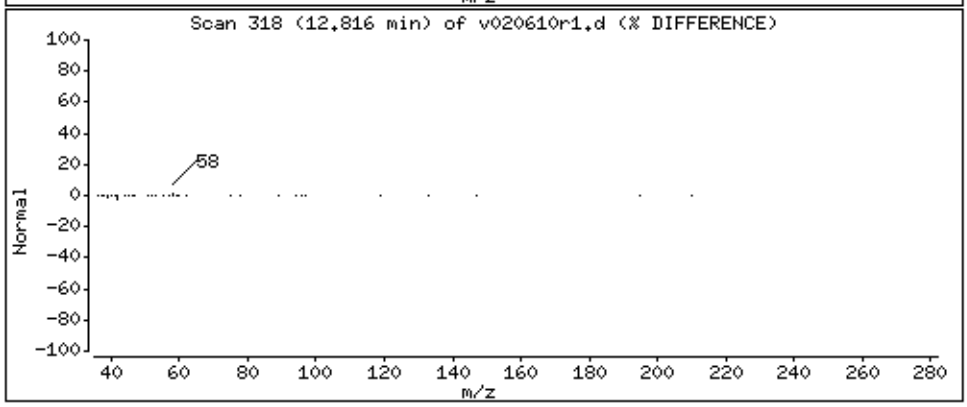
31 Acetone

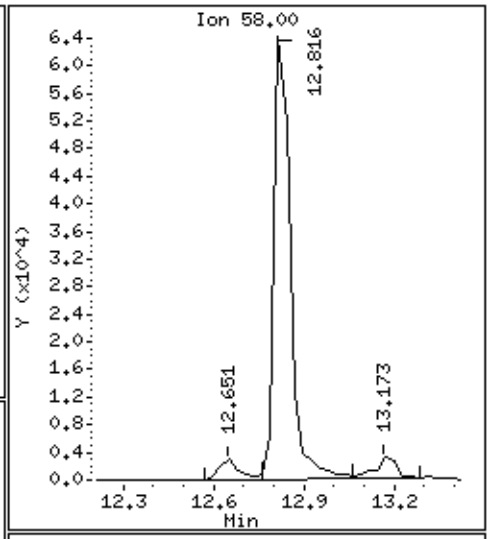
Concentration: 9.422 PPBV

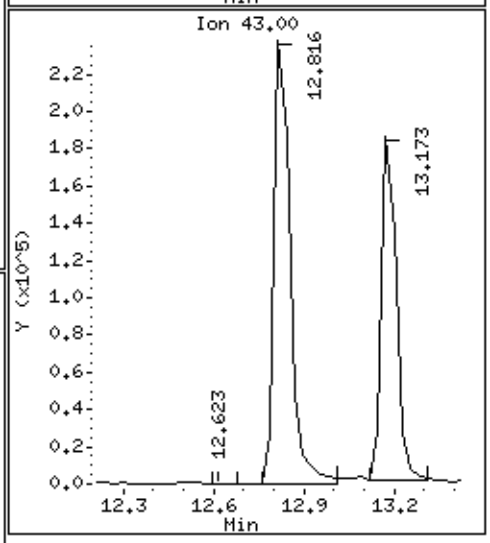












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

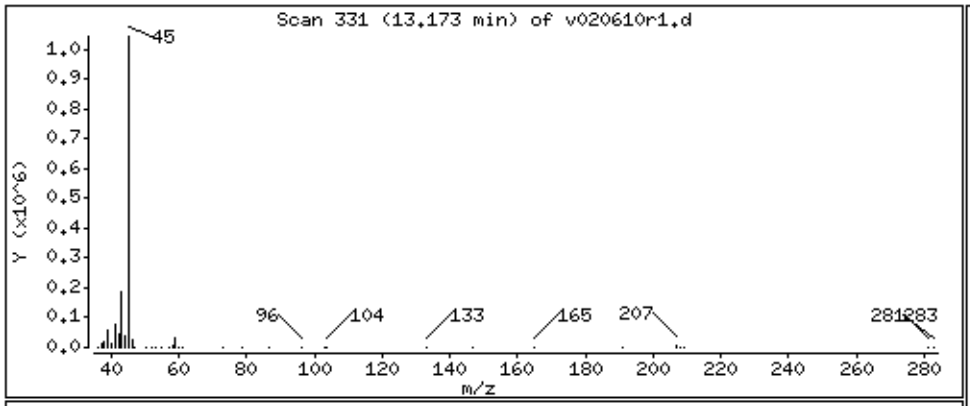
Operator: ef

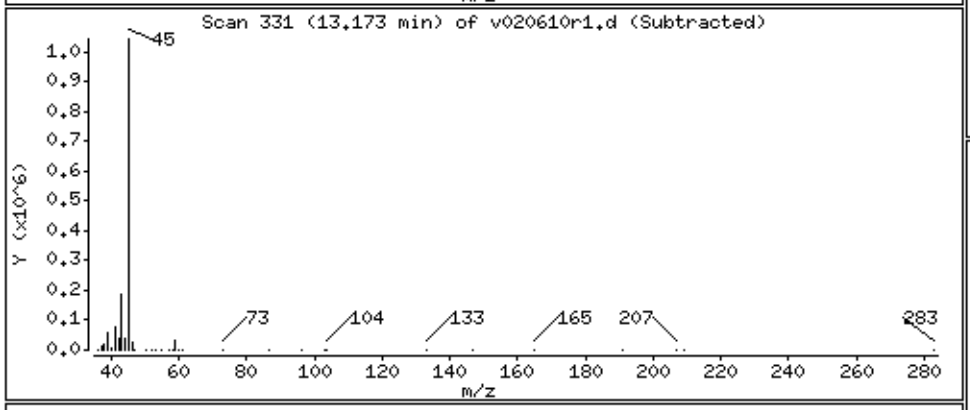
Column phase: RTx-624

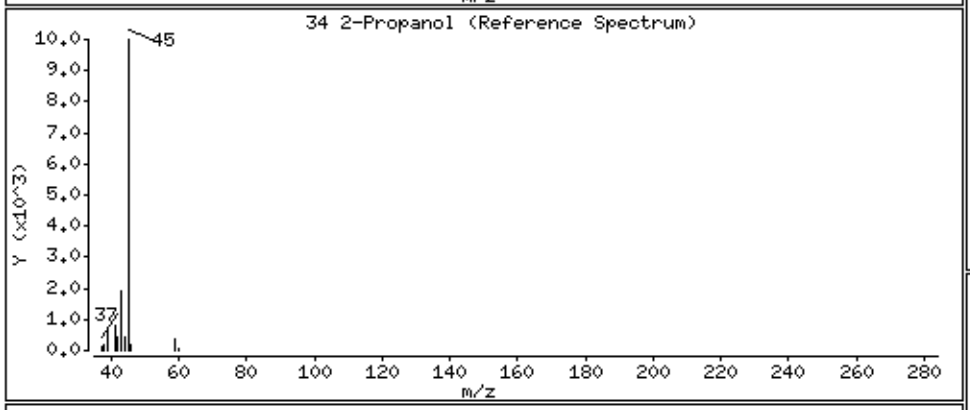
Column diameter: 0.32

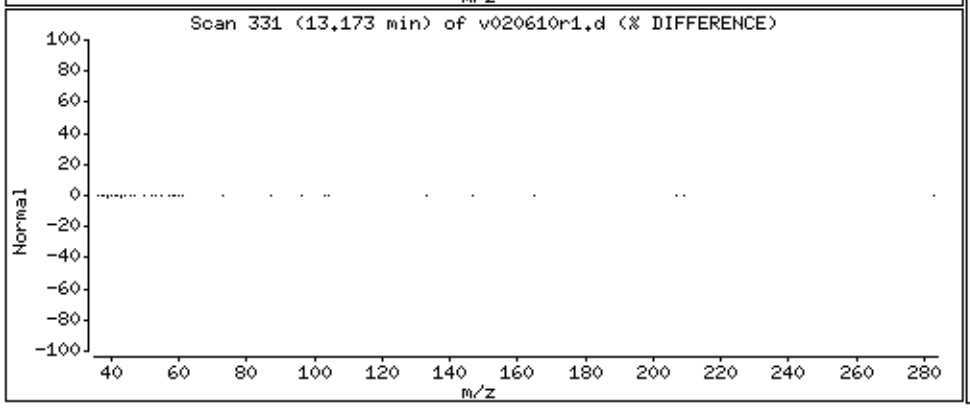
34 2-Propanol

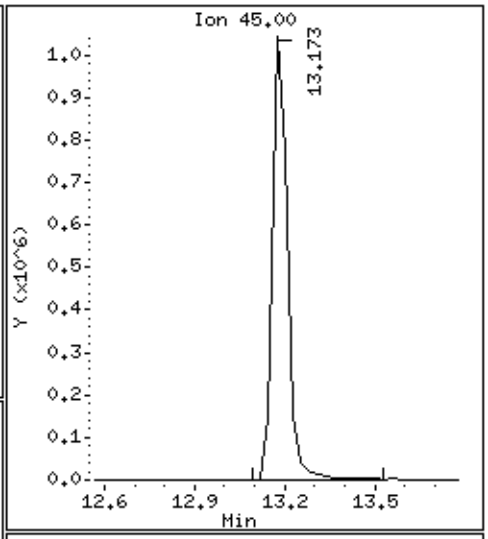
Concentration: 36.263 PPBV

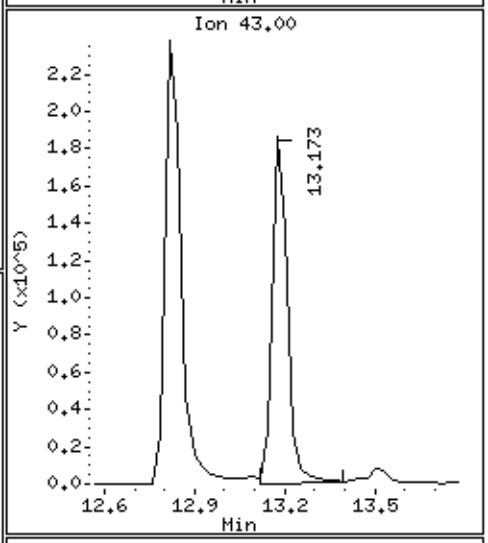


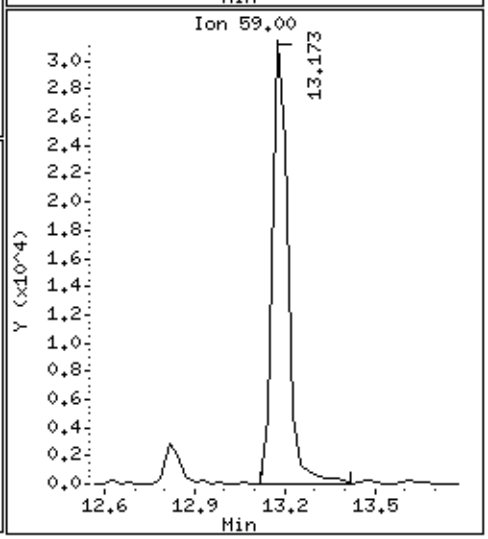












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

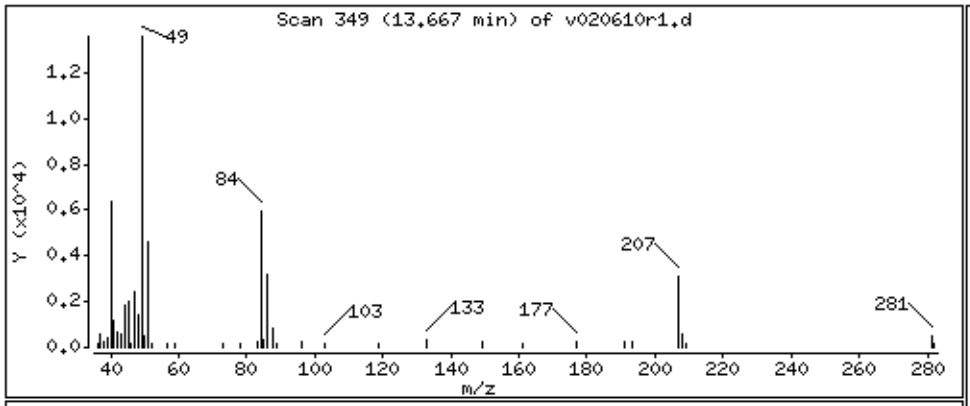
Operator: ef

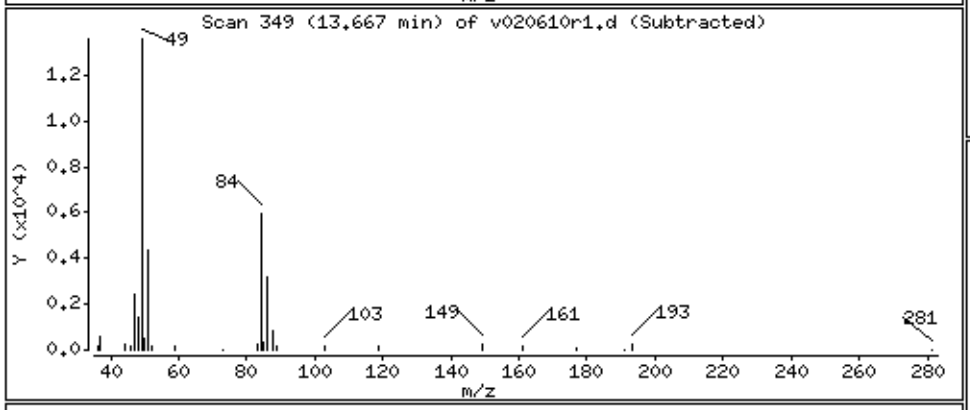
Column phase: RTx-624

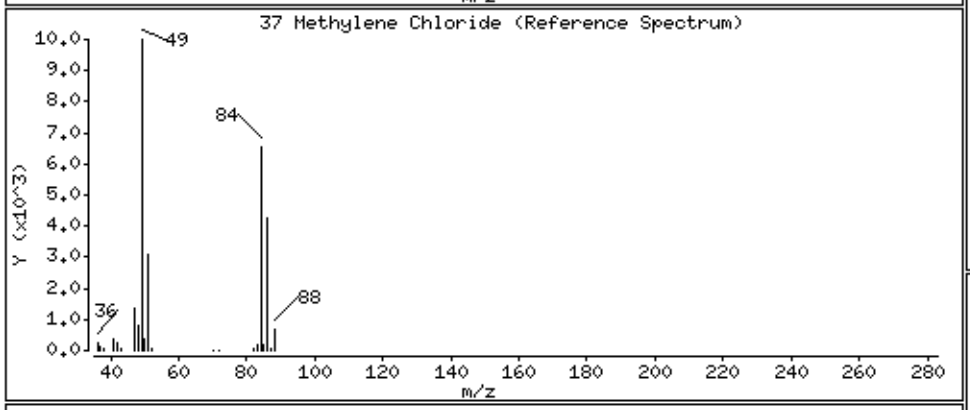
Column diameter: 0.32

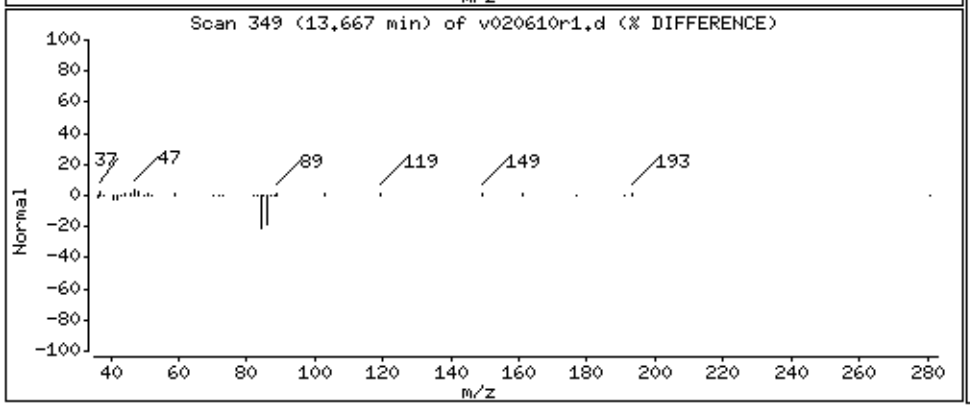
37 Methylene Chloride

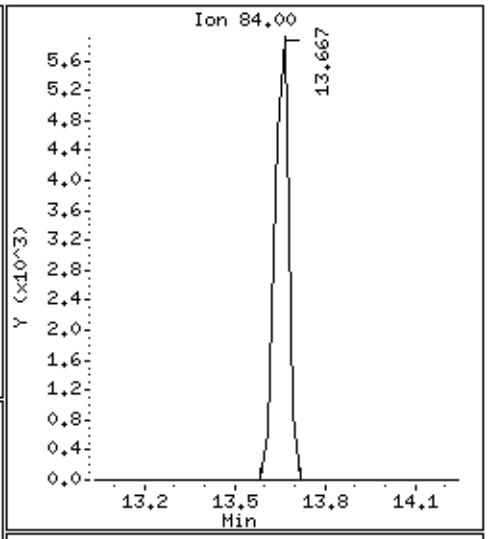
Concentration: 0.6315 PPBV

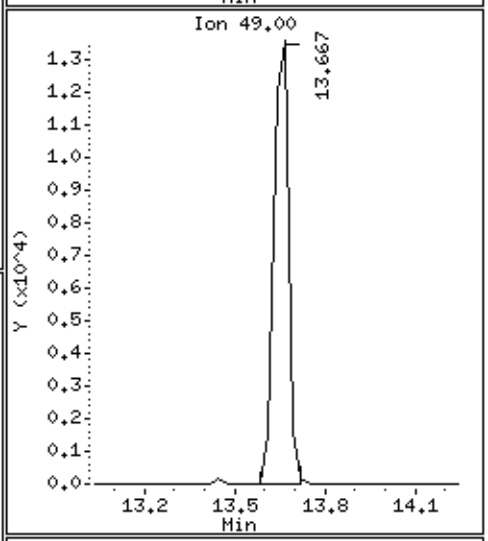


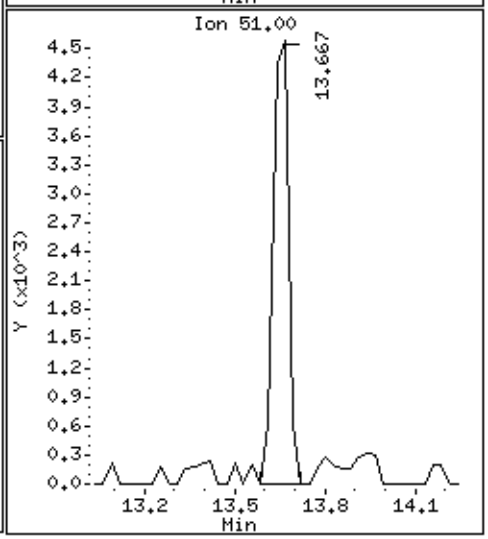












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

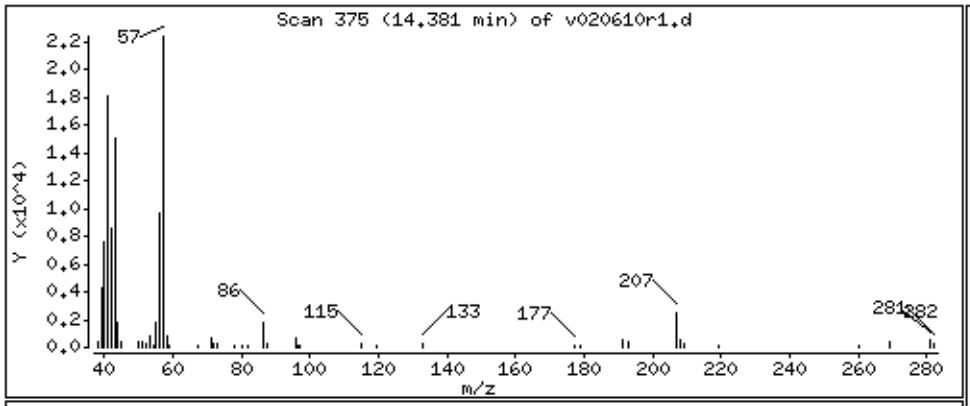
Operator: ef

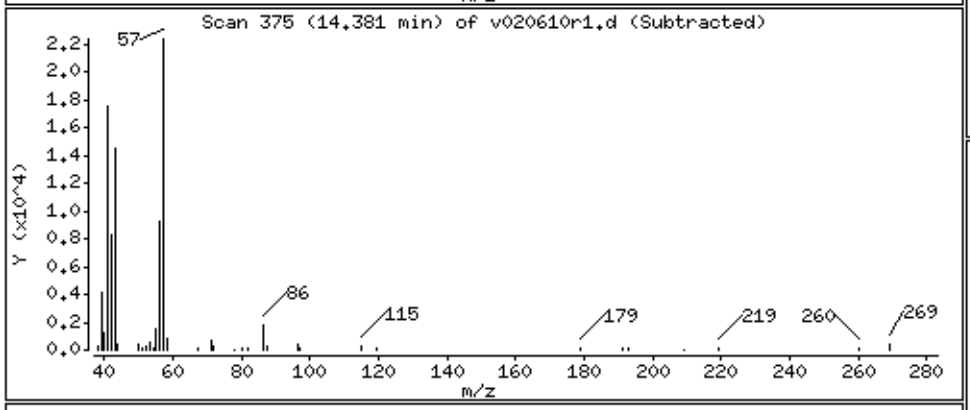
Column phase: RTx-624

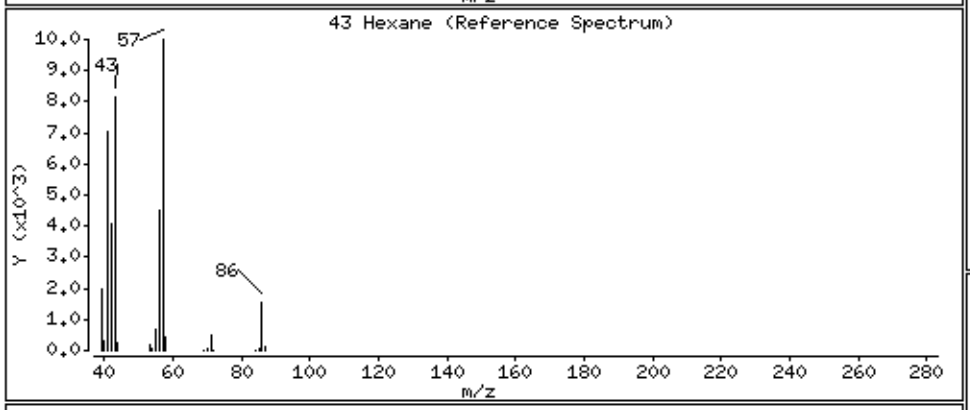
Column diameter: 0.32

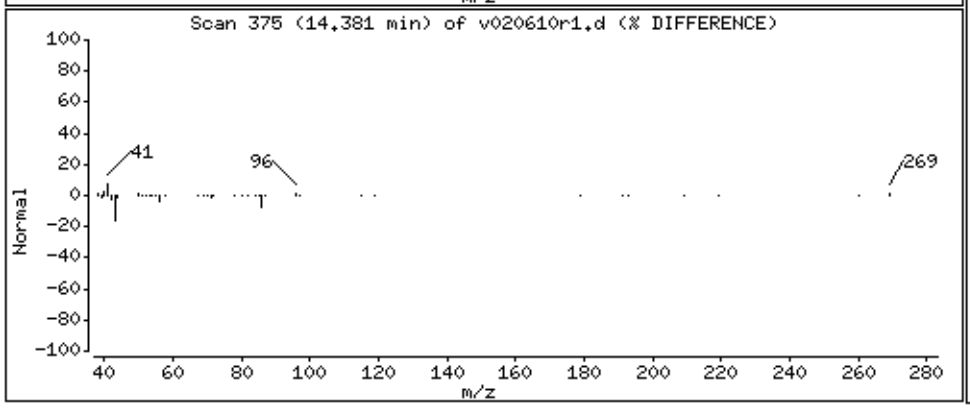
43 Hexane

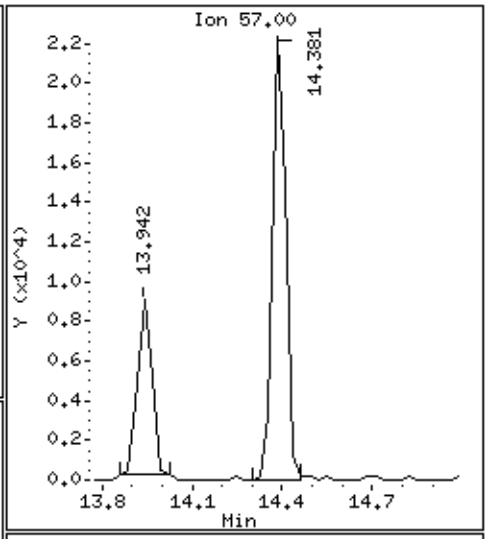
Concentration: 0.7775 PPBV

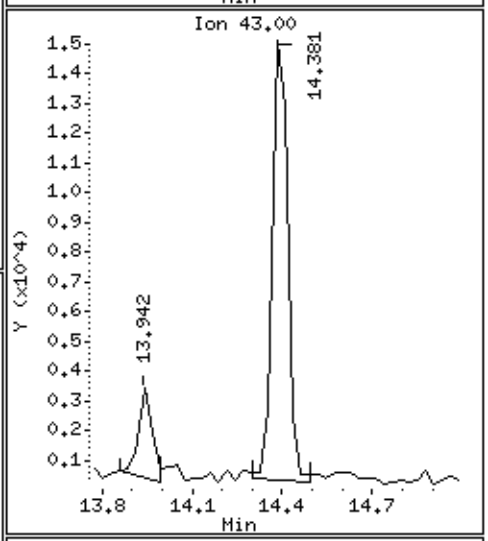


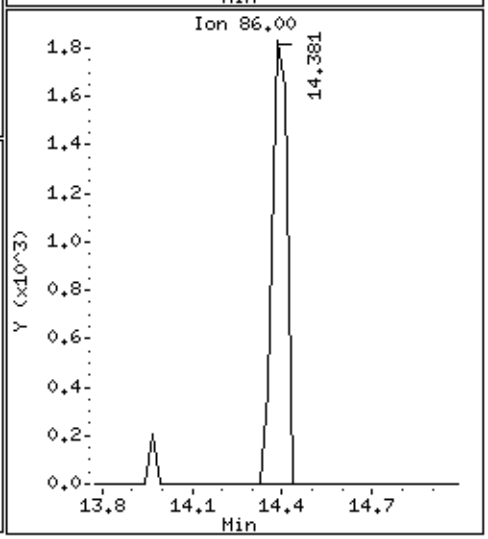












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

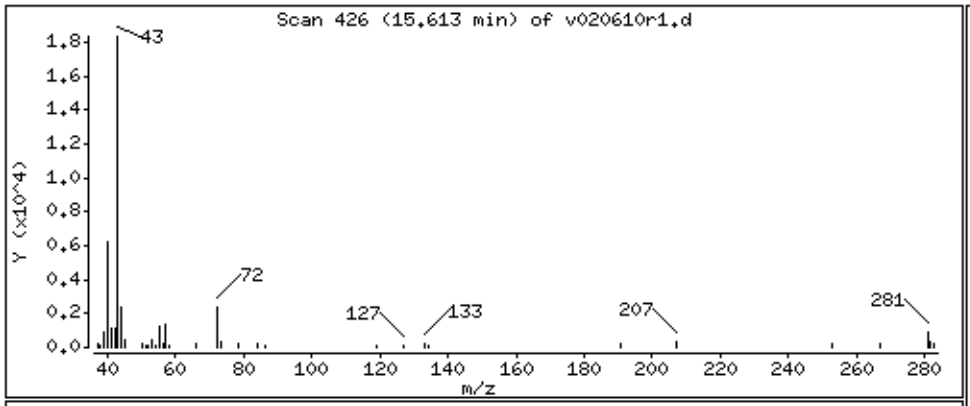
Operator: ef

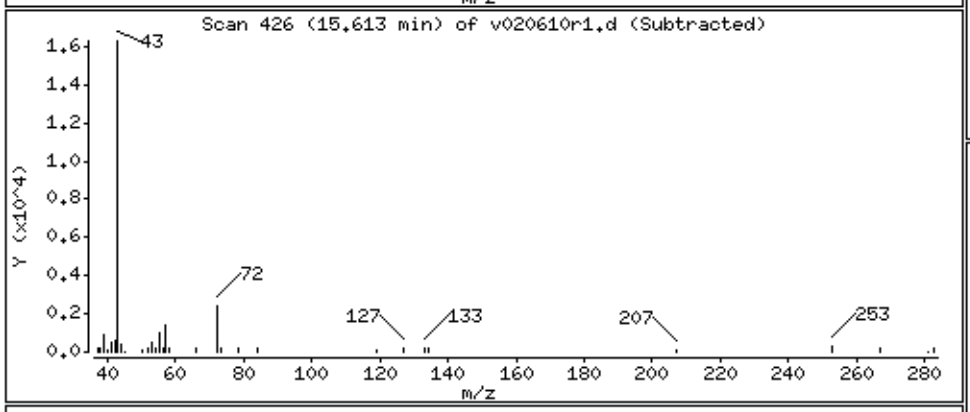
Column phase: RTx-624

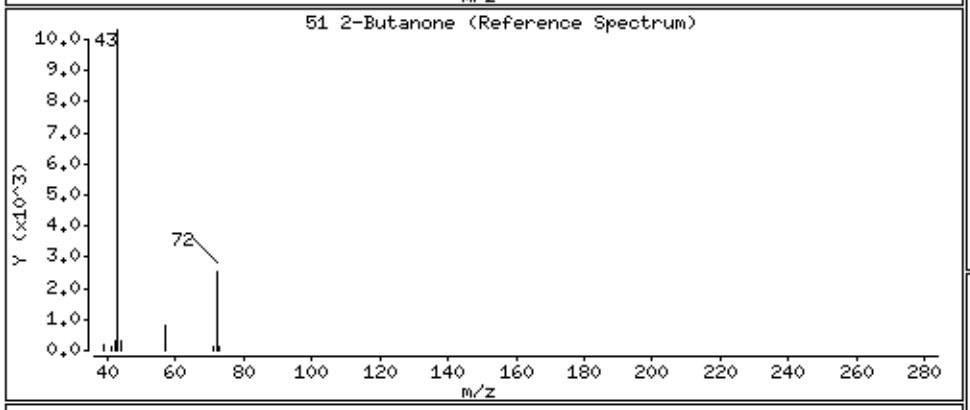
Column diameter: 0.32

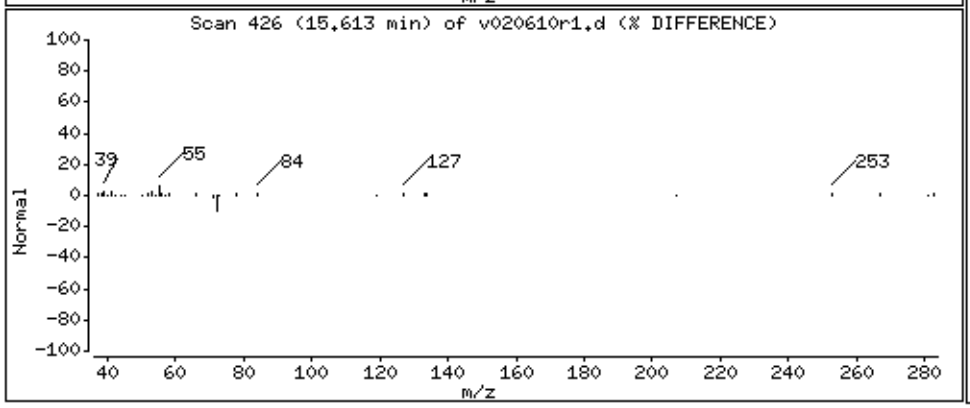
51 2-Butanone

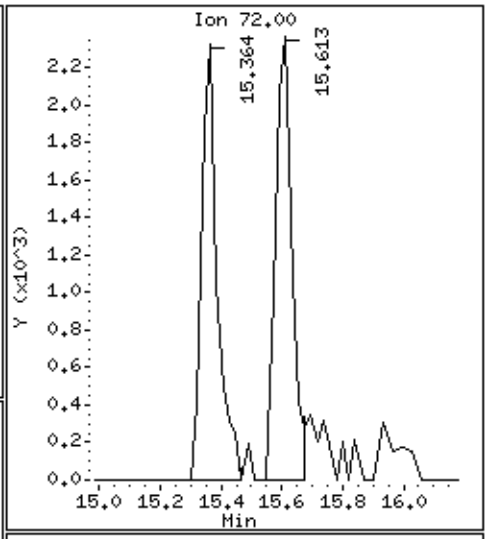
Concentration: 0.5177 PPBV

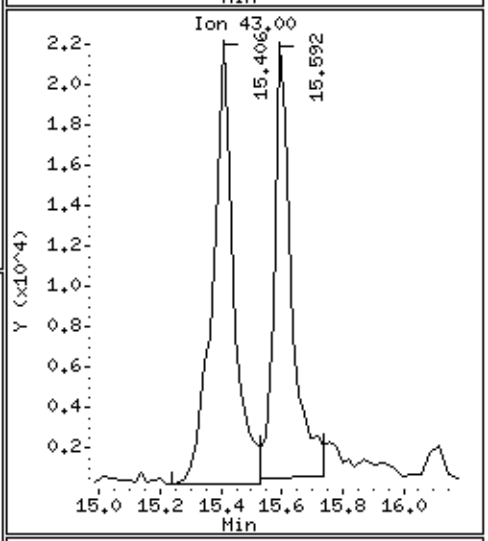


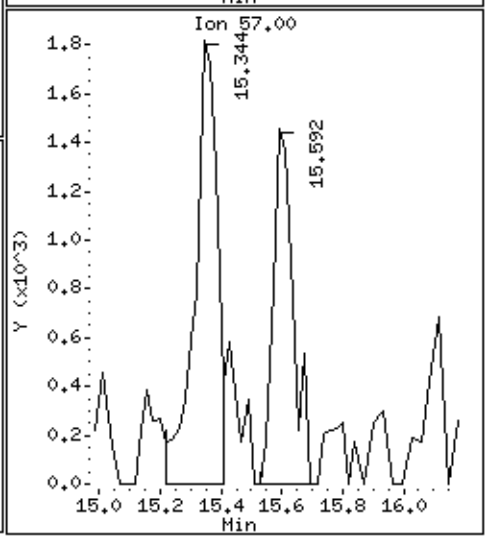












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

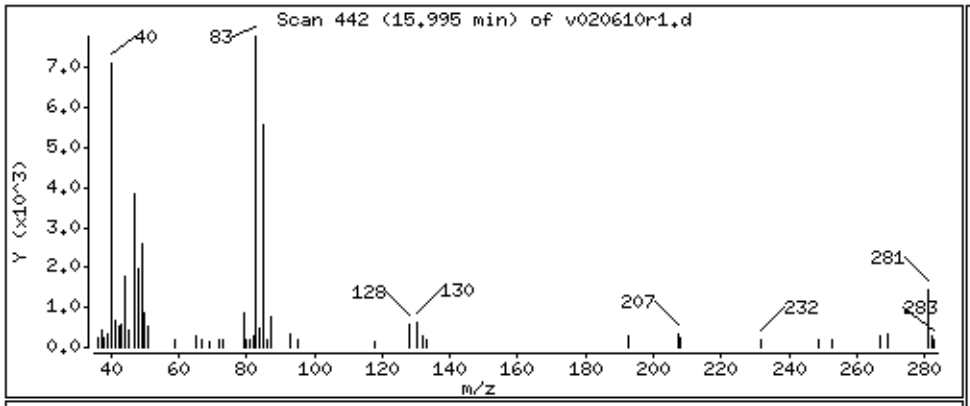
Operator: ef

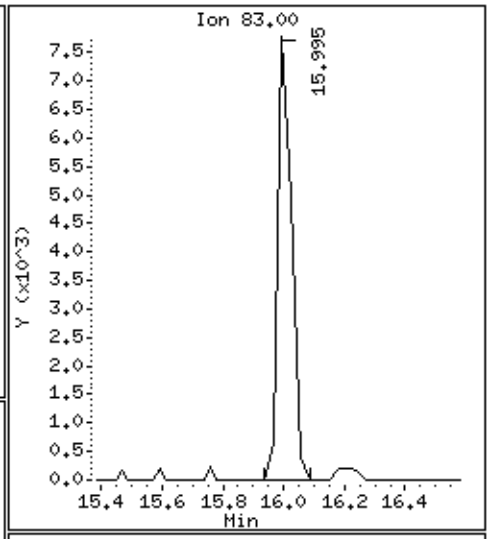
Column phase: RTx-624

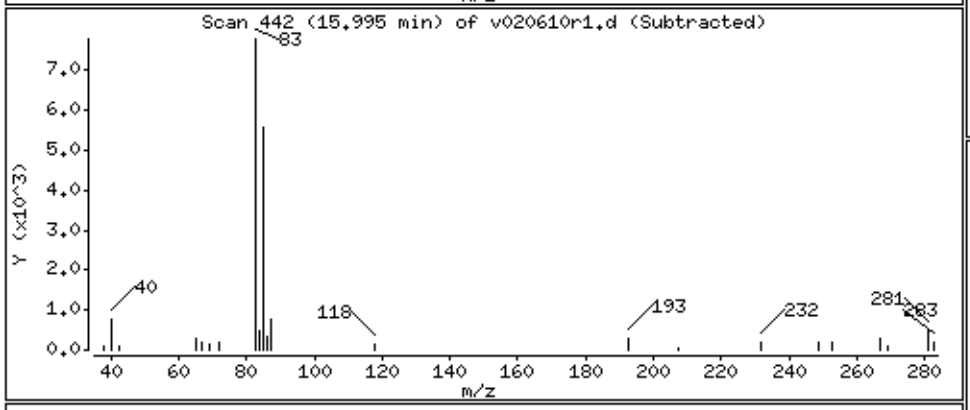
Column diameter: 0.32

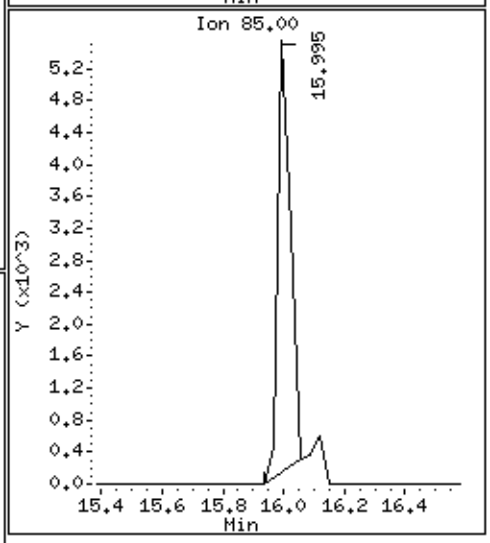
55 Chloroform

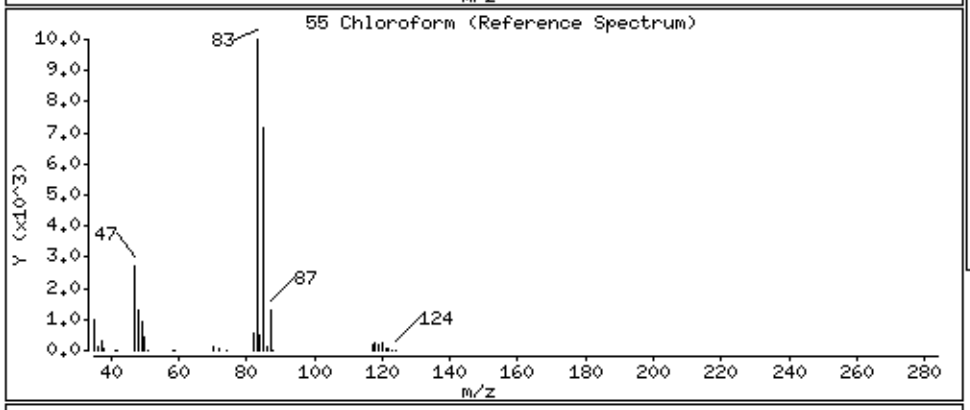
Concentration: 0.3312 PPBV

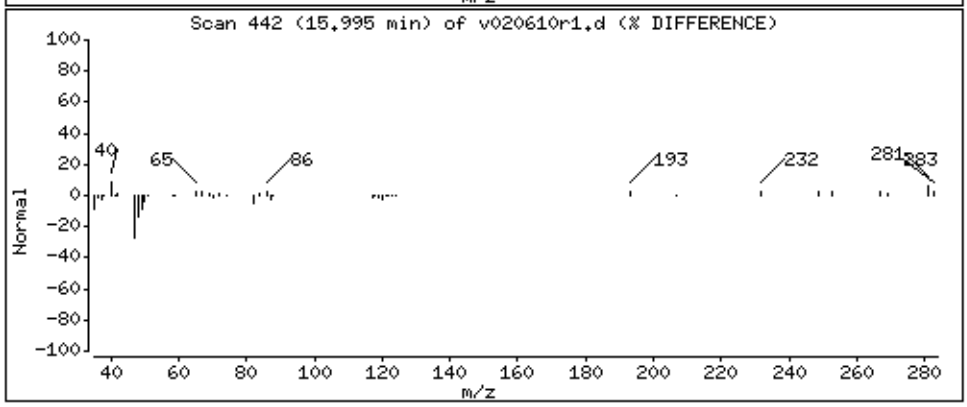












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

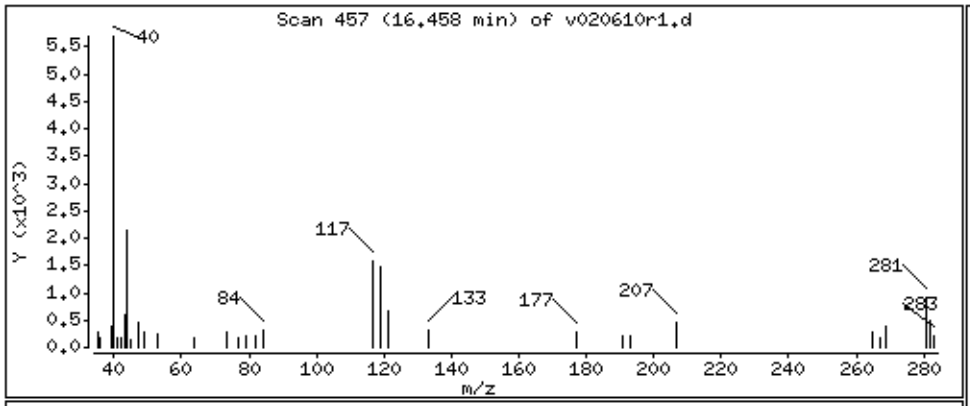
Operator: ef

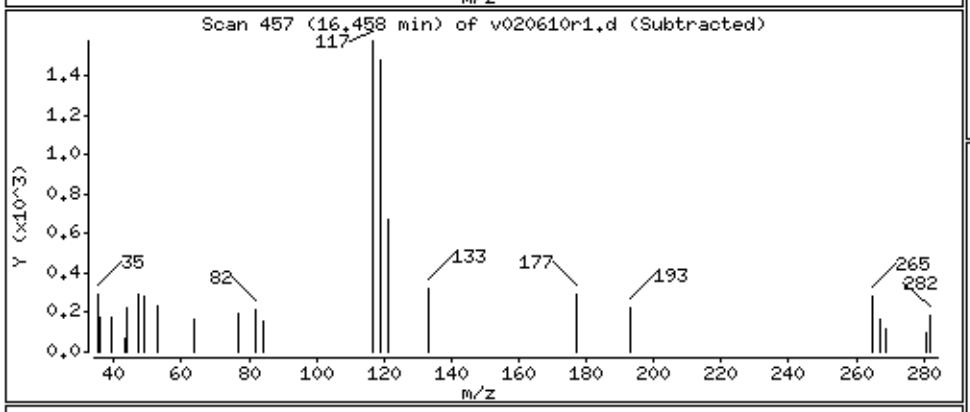
Column phase: RTx-624

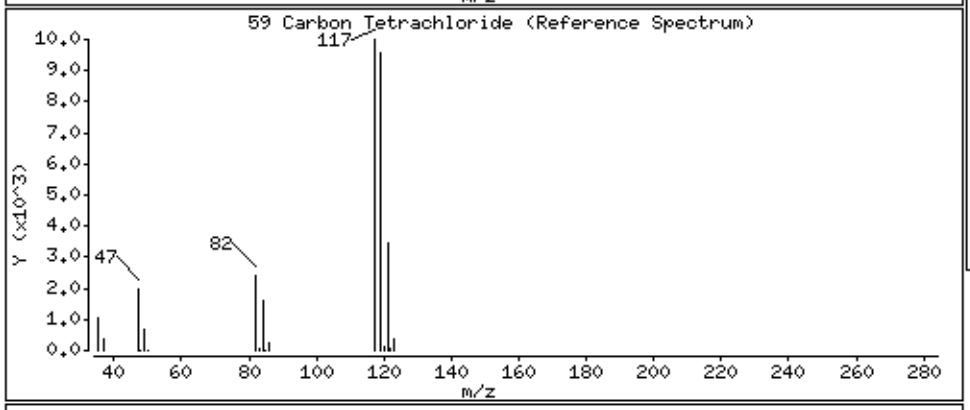
Column diameter: 0.32

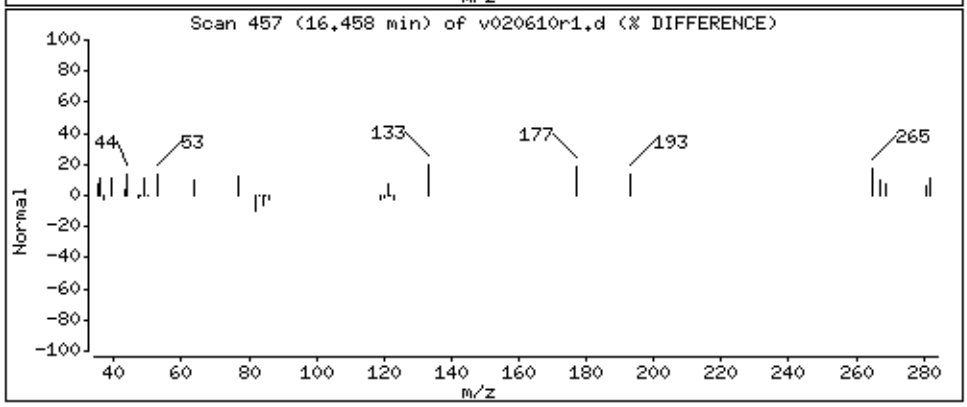
59 Carbon Tetrachloride

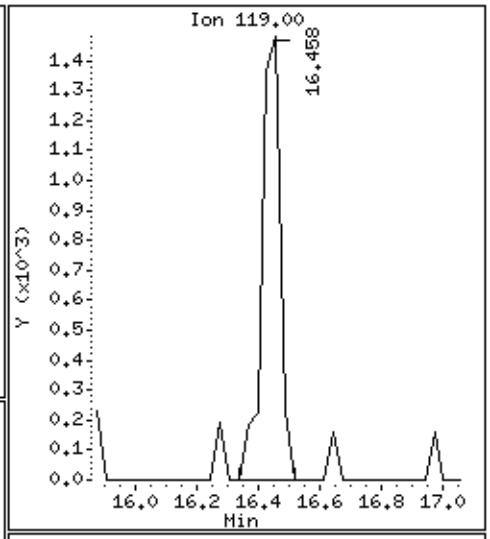
Concentration: 0.08241 PPBV

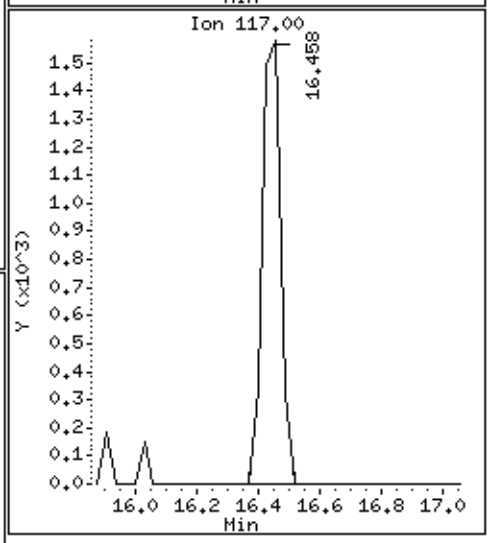












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

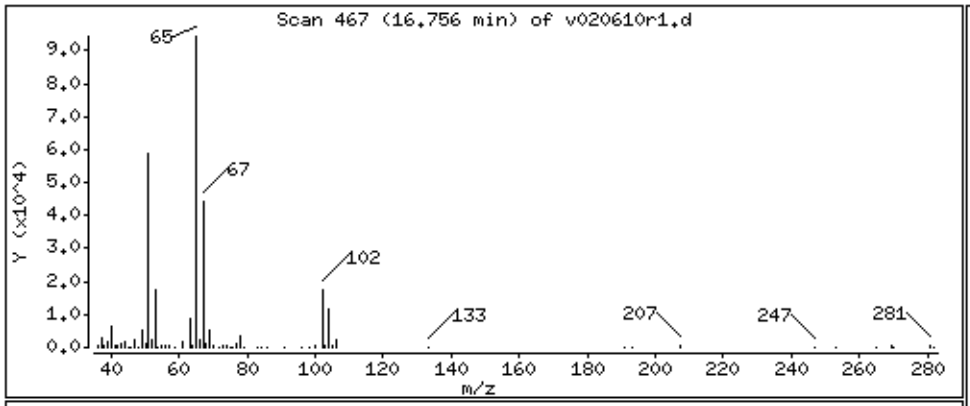
Operator: ef

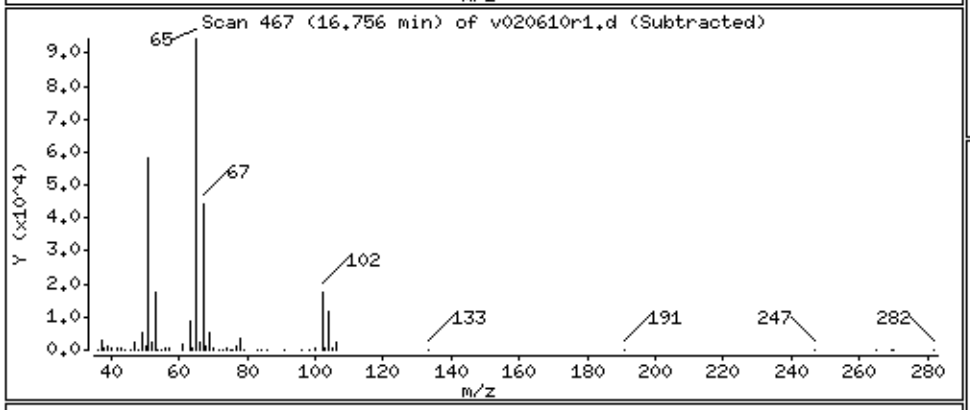
Column phase: RTx-624

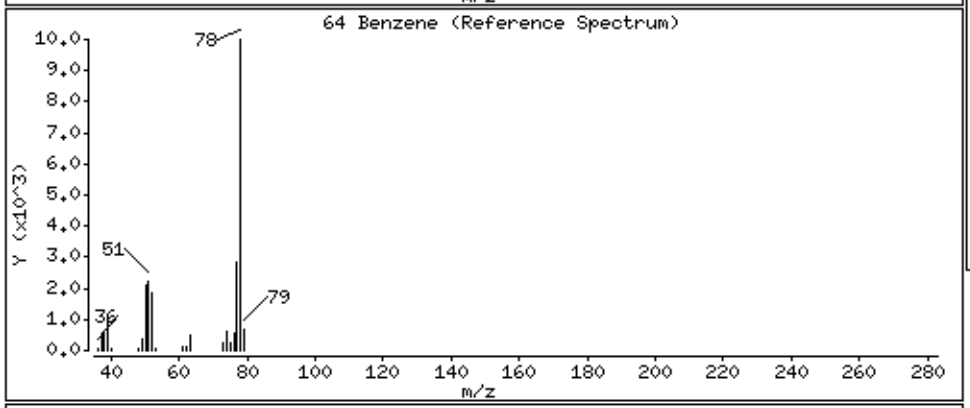
Column diameter: 0.32

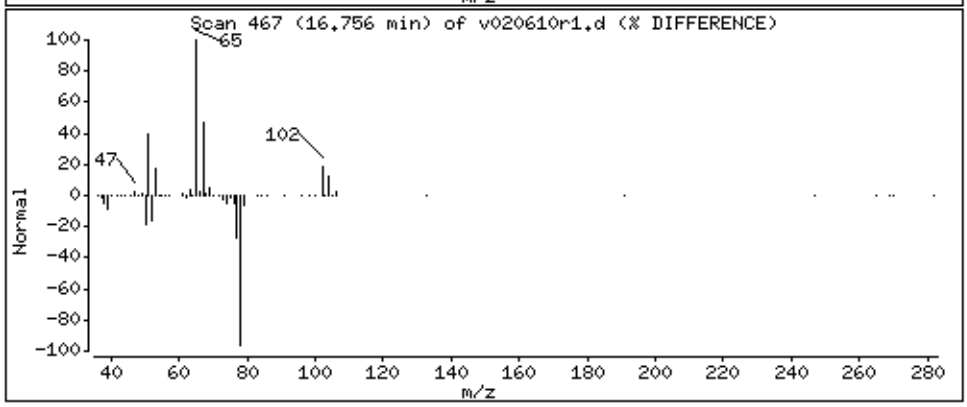
64 Benzene

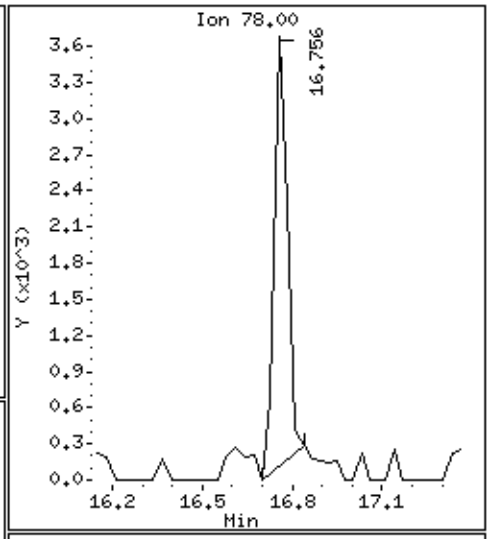
Concentration: 0.08860 PPBV

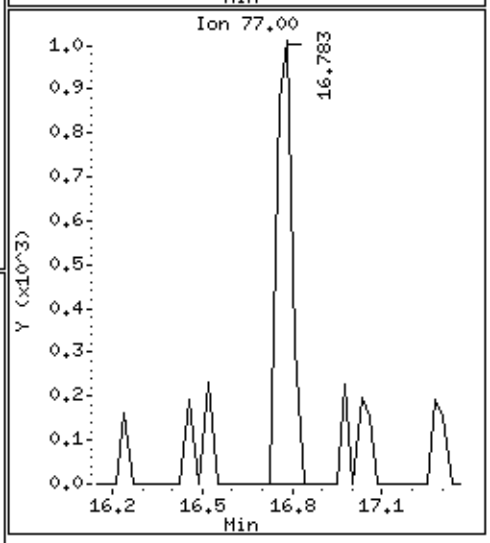












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

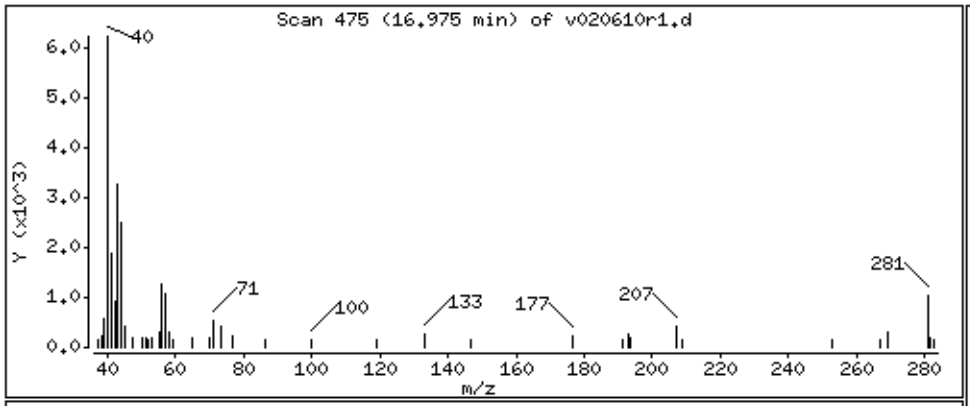
Operator: ef

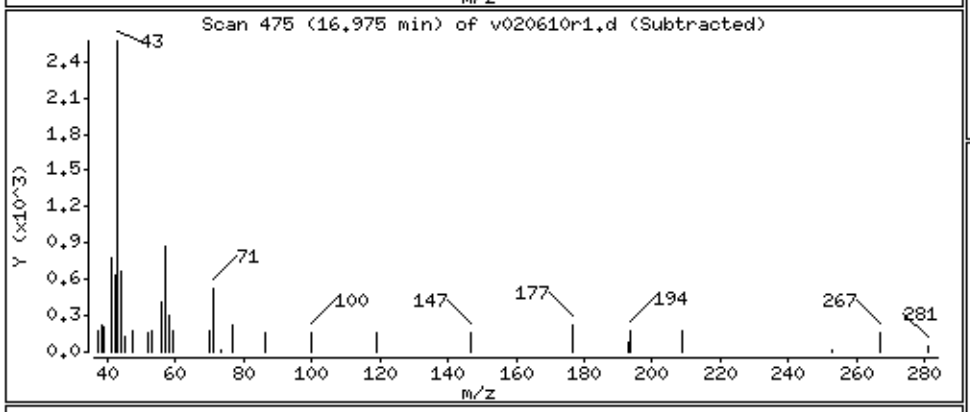
Column phase: RTx-624

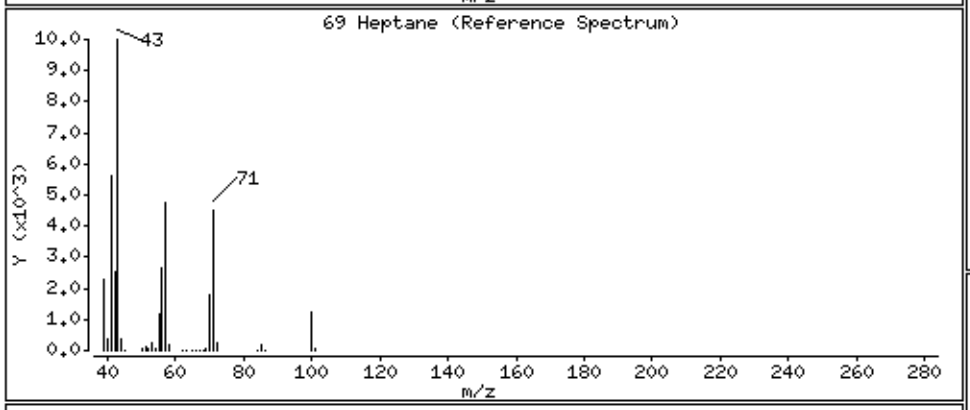
Column diameter: 0.32

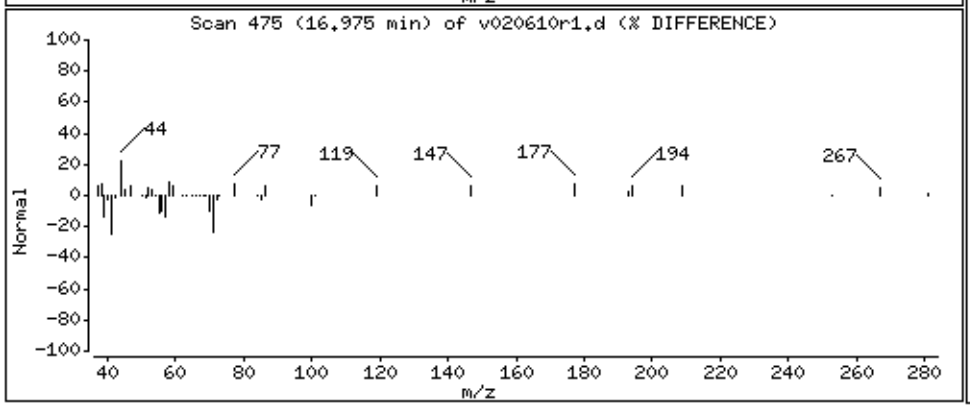
69 Heptane

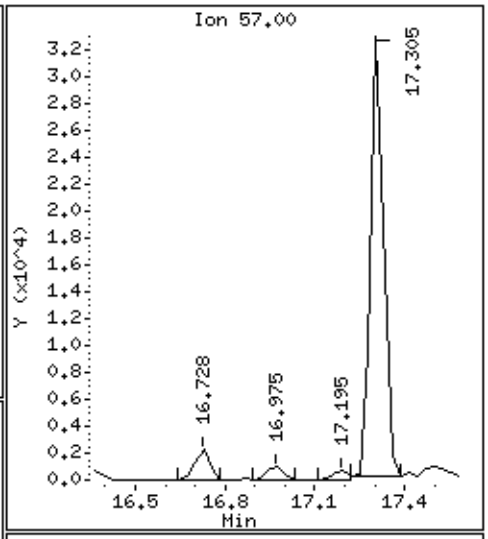
Concentration: 0.07330 PPBV

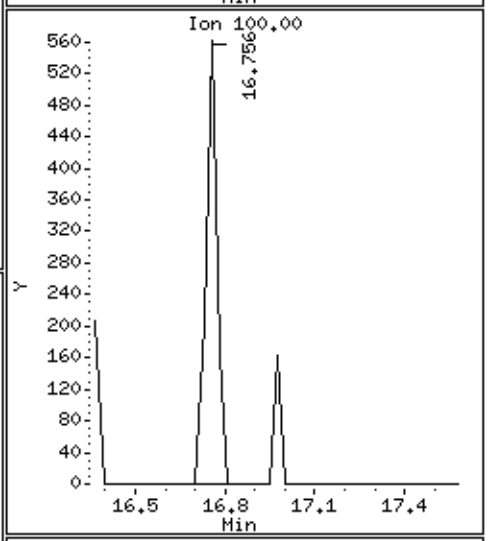


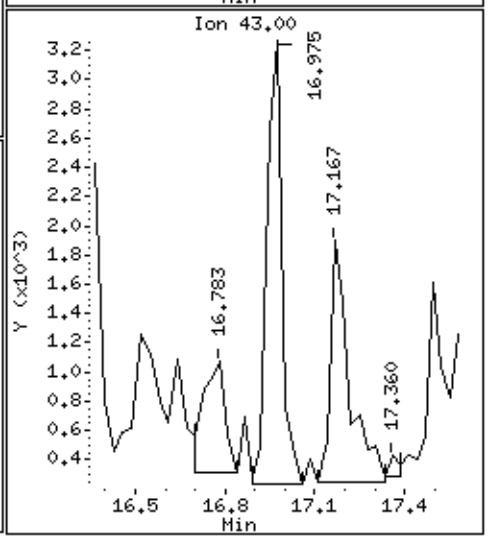












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

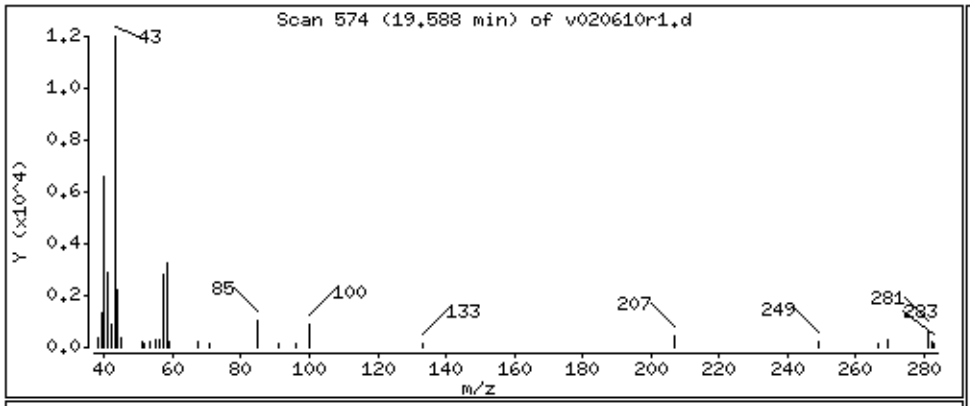
Operator: ef

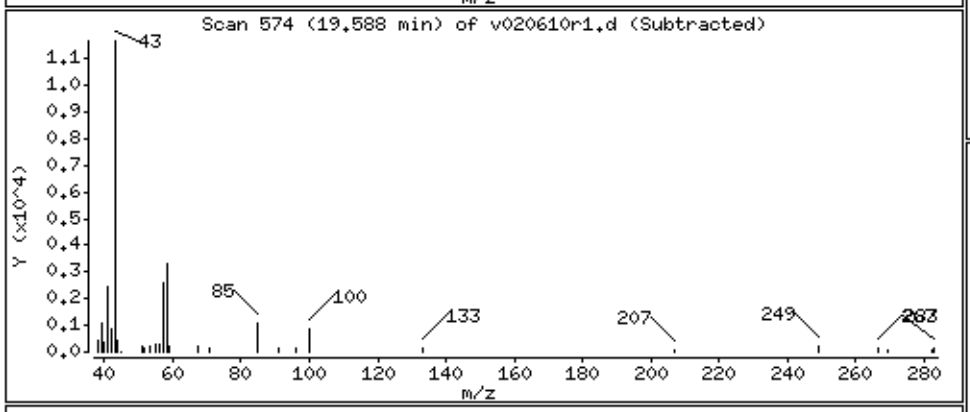
Column phase: RTx-624

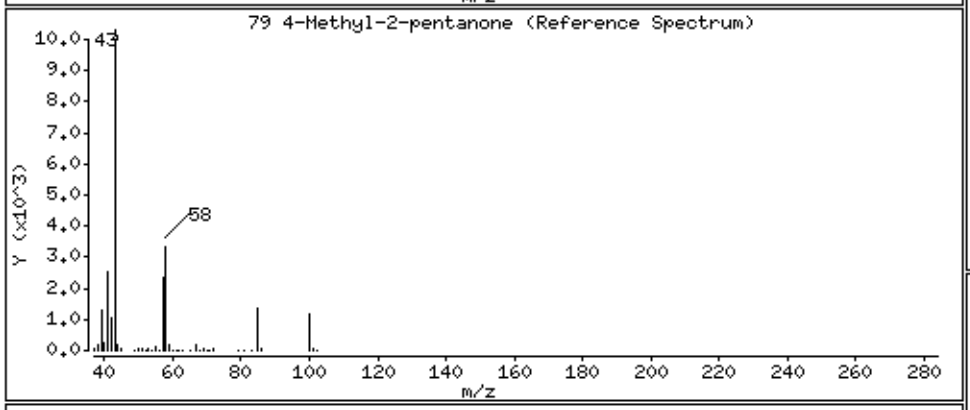
Column diameter: 0.32

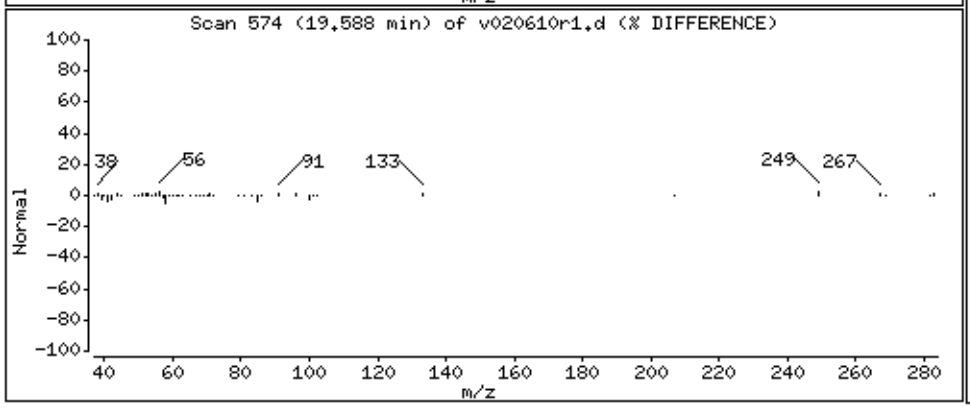
79 4-Methyl-2-pentanone

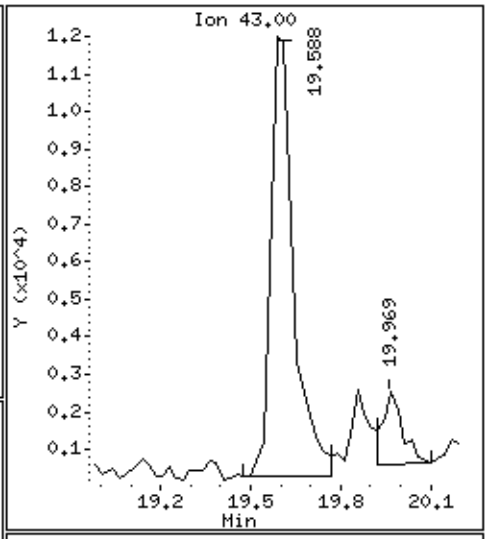
Concentration: 0.3671 PPBV

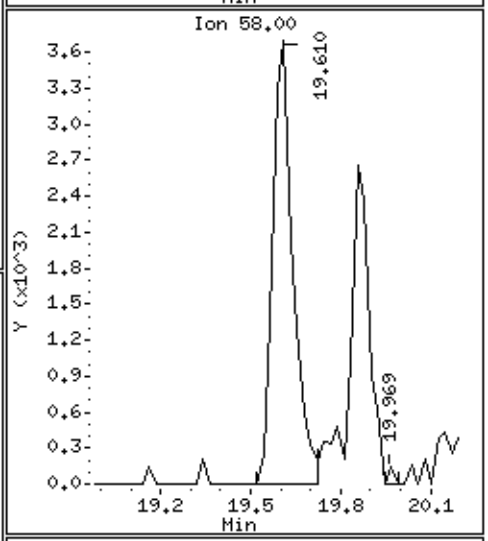


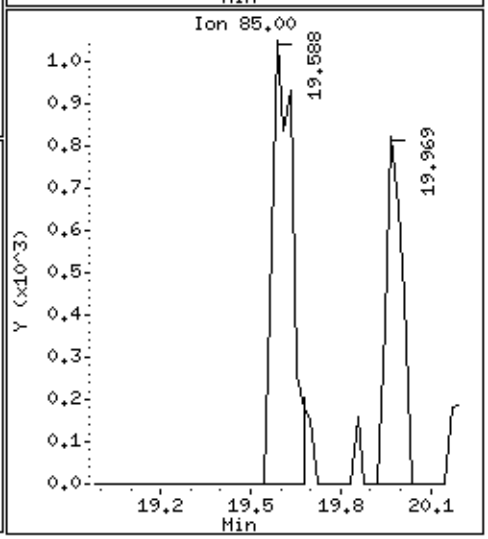












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

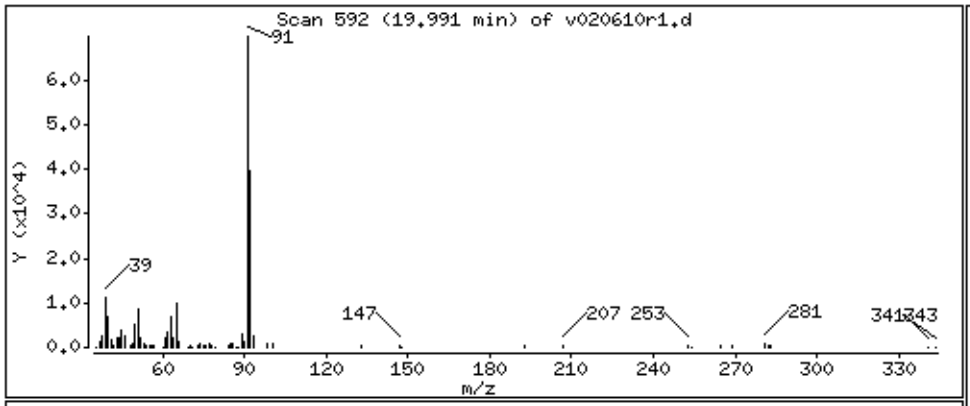
Operator: ef

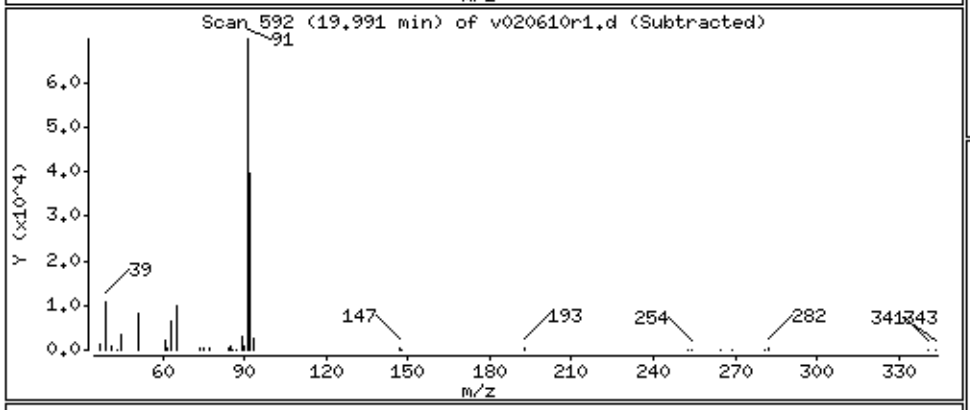
Column phase: RTx-624

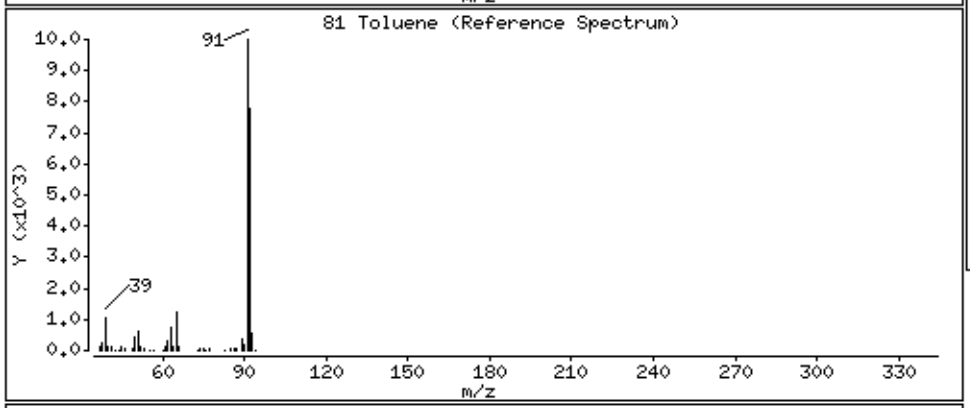
Column diameter: 0.32

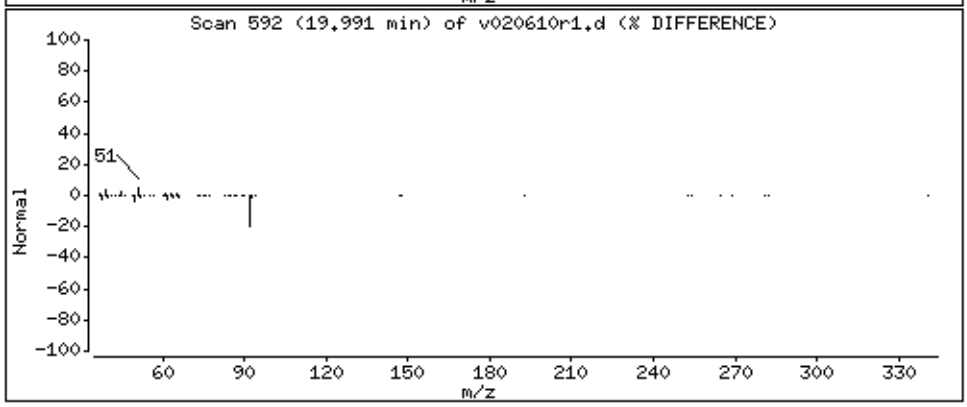
81 Toluene

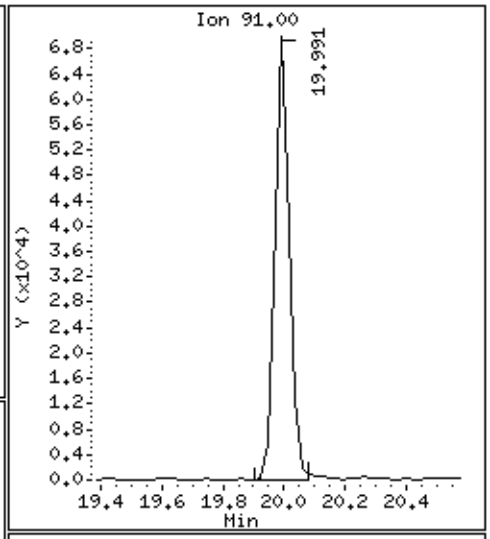
Concentration: 1.678 PPBV

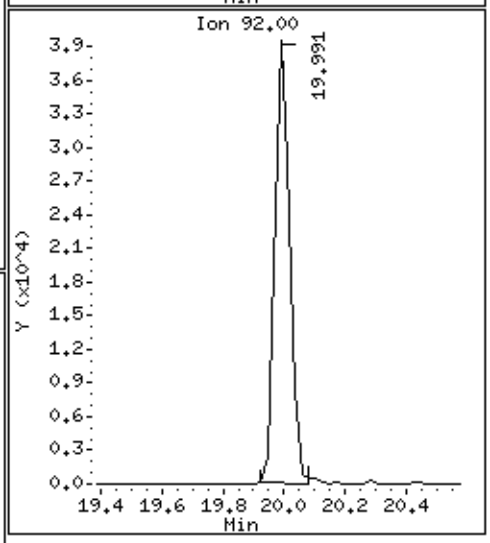












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

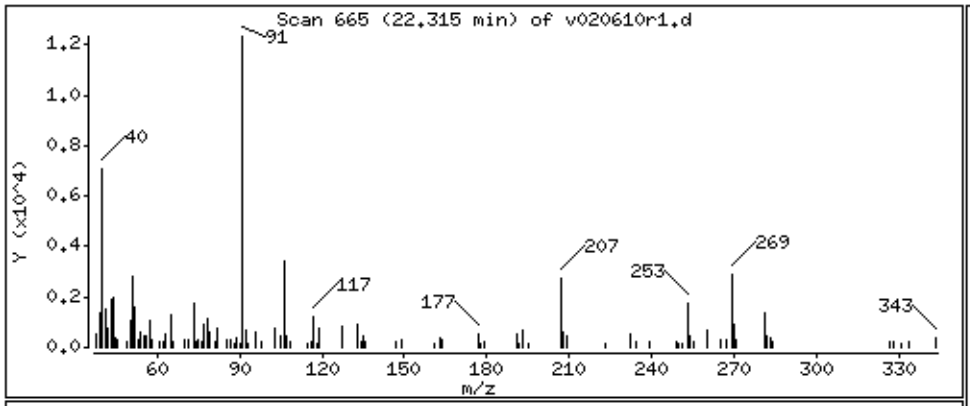
Operator: ef

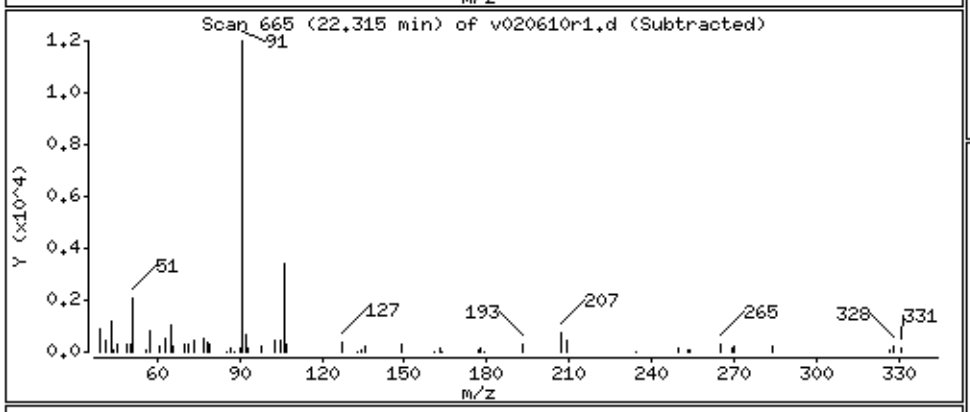
Column phase: RTx-624

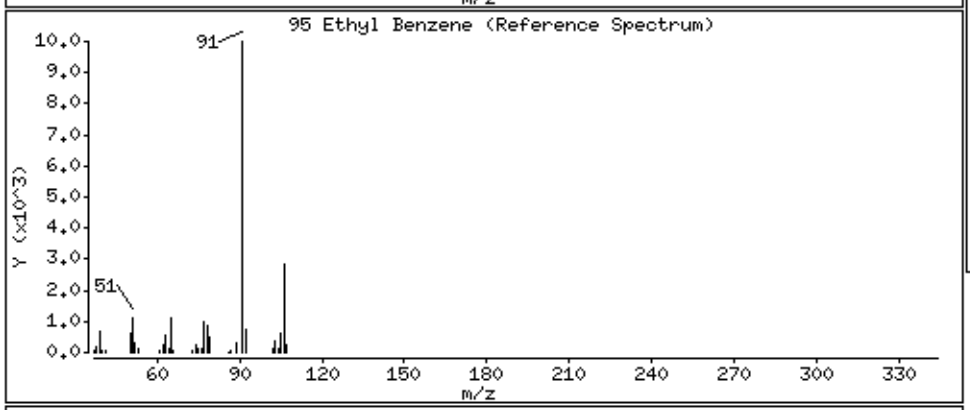
Column diameter: 0.32

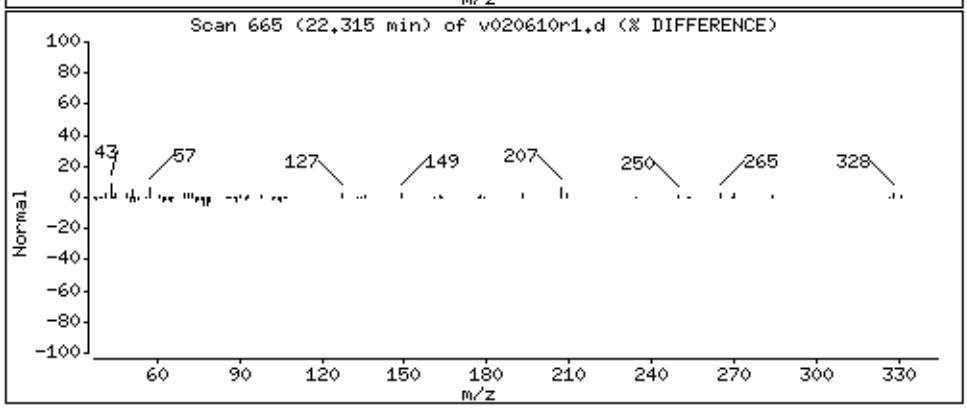
95 Ethyl Benzene

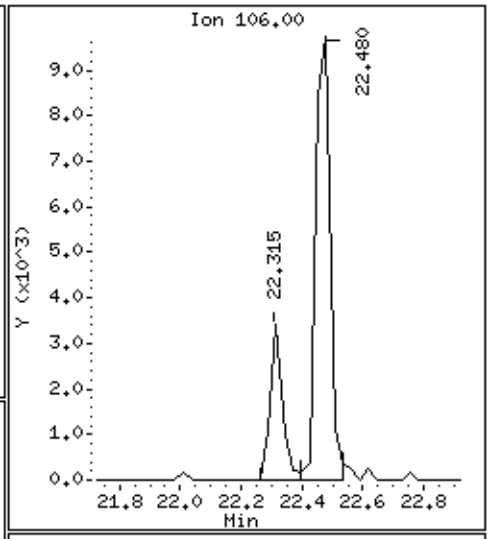
Concentration: 0.1703 PPBV

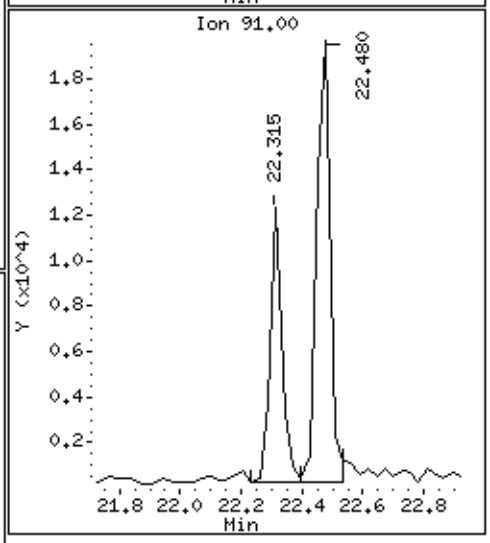












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

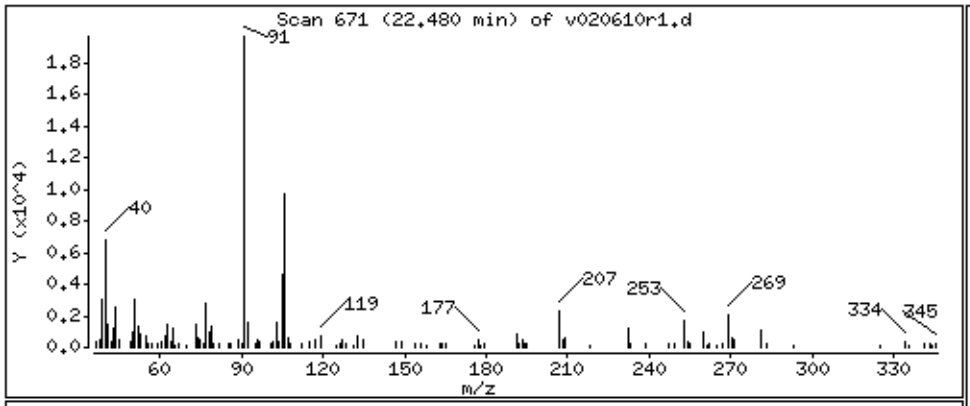
Operator: ef

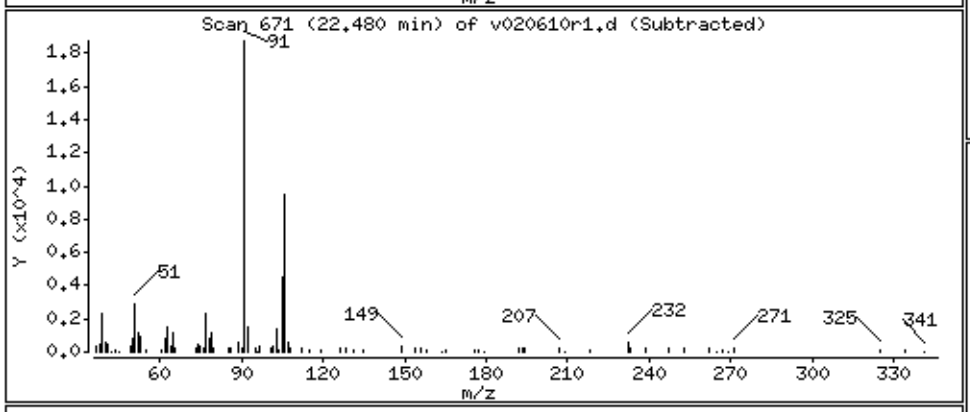
Column phase: RTx-624

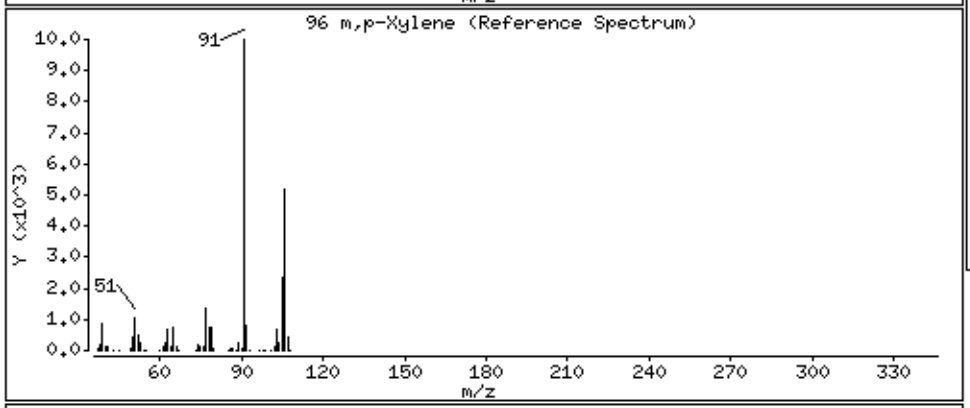
Column diameter: 0.32

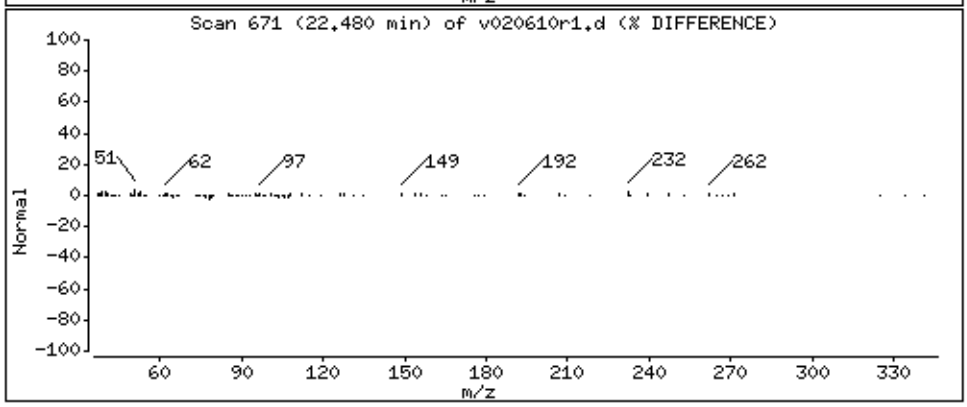
96 m,p-Xylene

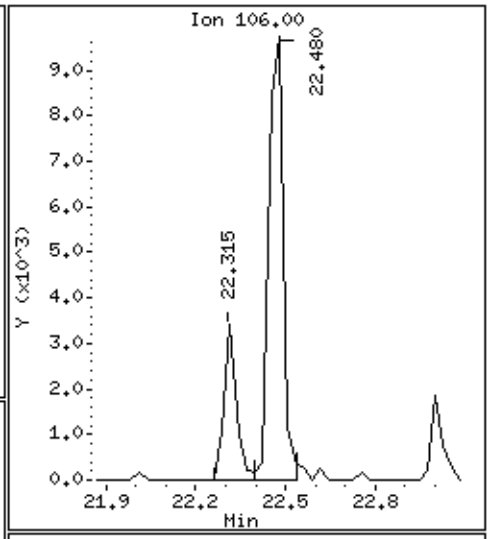
Concentration: 0.5772 PPBV

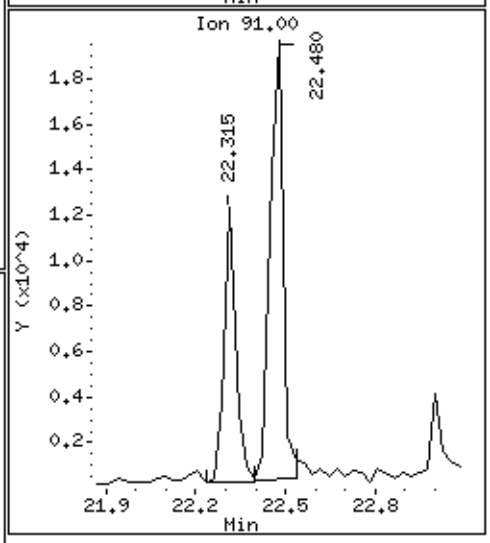












Data File: /chem/msdv.i/06Feb2015.b/v020610r1.d

Date : 06-FEB-2015 12:54

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 3735

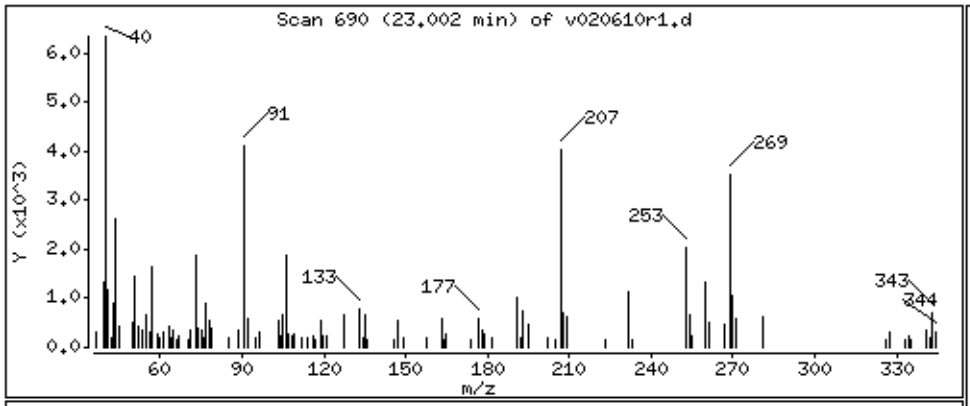
Operator: ef

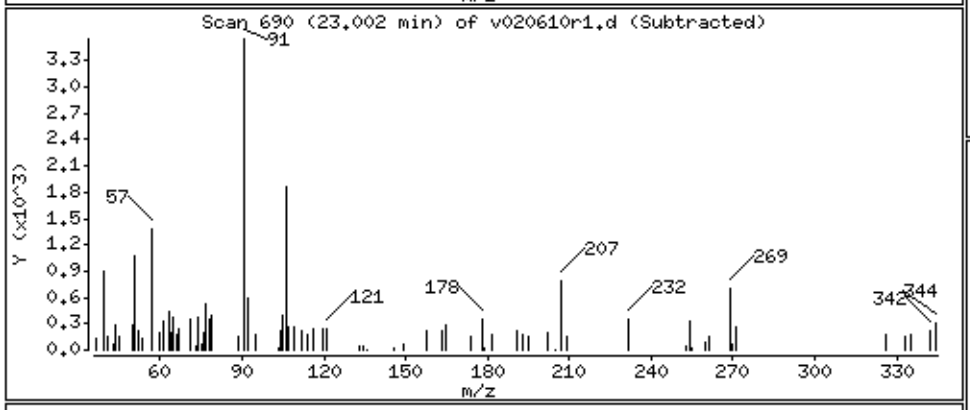
Column phase: RTx-624

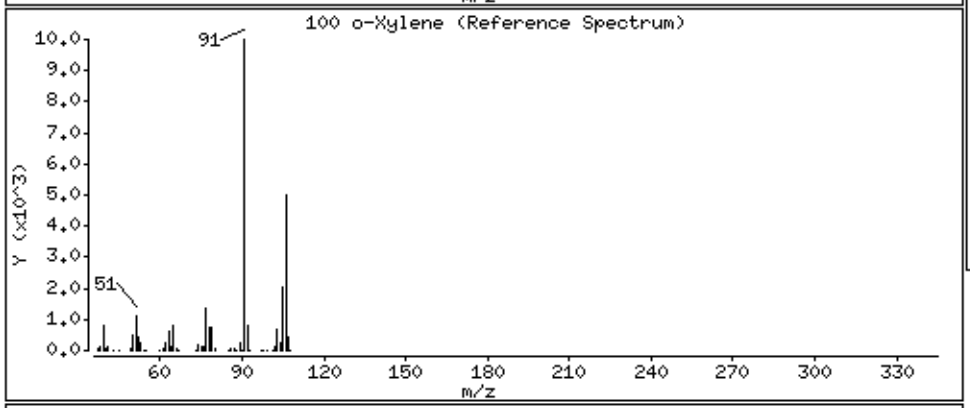
Column diameter: 0.32

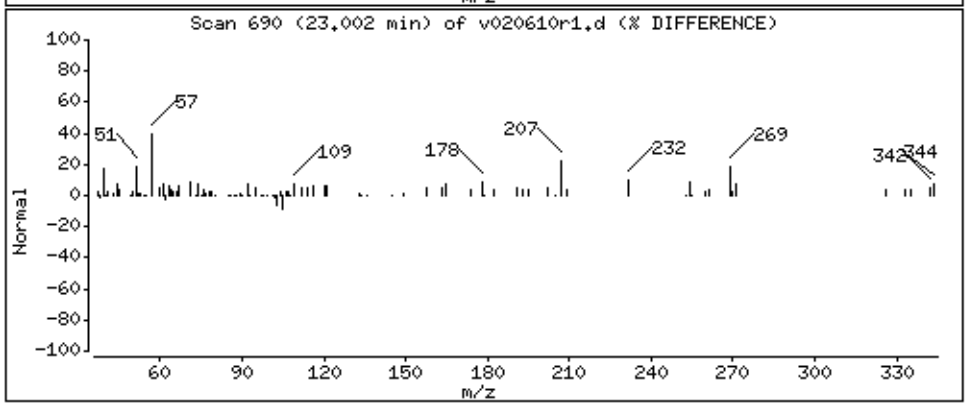
100 o-Xylene

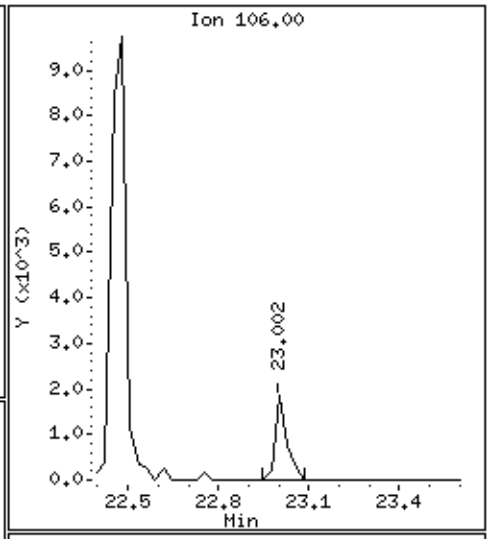
Concentration: 0.09626 PPBV

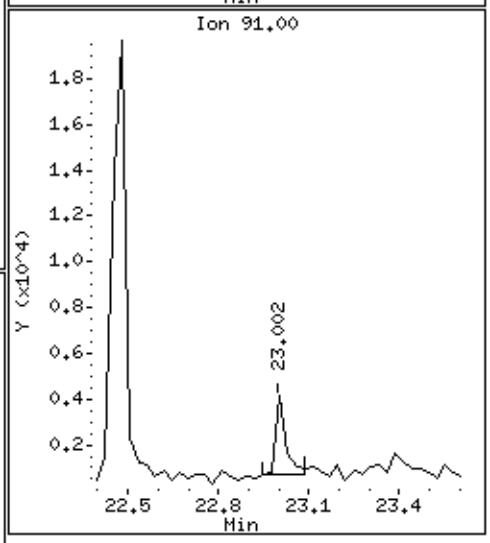












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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B6-5IA

Lab ID#: 1502053AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.86	2.4
Chloromethane	0.86	0.72 J	1.8	1.5 J
Freon 11	0.17	0.22	0.97	1.2
Ethanol	0.86	5.2	1.6	9.8
Freon 113	0.17	0.072 J	1.3	0.55 J
Acetone	0.86	6.7	2.0	16
2-Propanol	0.86	16	2.1	39
Methylene Chloride	0.35	1.1	1.2	3.7
Hexane	0.17	0.34	0.61	1.2
2-Butanone (Methyl Ethyl Ketone)	0.86	0.31 J	2.6	0.92 J
Chloroform	0.17	0.21	0.84	1.0
Carbon Tetrachloride	0.17	0.087 J	1.1	0.55 J
Benzene	0.17	0.11 J	0.55	0.37 J
Heptane	0.17	0.089 J	0.71	0.36 J
4-Methyl-2-pentanone	0.17	0.75	0.71	3.0
Toluene	0.17	2.2	0.65	8.2
Ethyl Benzene	0.17	0.25	0.75	1.1
m,p-Xylene	0.17	0.90	0.75	3.9
o-Xylene	0.17	0.15 J	0.75	0.64 J
1,2,4-Trimethylbenzene	0.17	0.066 J	0.85	0.32 J
1,4-Dichlorobenzene	0.17	0.033 J	1.0	0.20 J

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Client Sample ID: B6-5IA

Lab ID#: 1502053AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020612r1**	**Date of Collection:**	**2/3/15 3:46:00 PM**
Dil. Factor:	**1.73**	**Date of Analysis:**	**2/6/15 02:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.86	2.4
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.86	0.72 J	1.8	1.5 J
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.86	Not Detected	3.4	Not Detected
Chloroethane	0.86	Not Detected	2.3	Not Detected
Freon 11	0.17	0.22	0.97	1.2
Ethanol	0.86	5.2	1.6	9.8
Freon 113	0.17	0.072 J	1.3	0.55 J
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	6.7	2.0	16
2-Propanol	0.86	16	2.1	39
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	1.1	1.2	3.7
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	0.34	0.61	1.2
1,1-Dichloroethane	0.17	Not Detected	0.70	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	0.31 J	2.6	0.92 J
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.6	Not Detected
Chloroform	0.17	0.21	0.84	1.0
1,1,1-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Cyclohexane	0.17	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.17	0.087 J	1.1	0.55 J
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	0.11 J	0.55	0.37 J
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
Heptane	0.17	0.089 J	0.71	0.36 J
Trichloroethene	0.17	Not Detected	0.93	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.80	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	0.75	0.71	3.0
Toluene	0.17	2.2	0.65	8.2
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected

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Client Sample ID: B6-5IA

Lab ID#: 1502053AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020612r1**	**Date of Collection:**	**2/3/15 3:46:00 PM**
Dil. Factor:	**1.73**	**Date of Analysis:**	**2/6/15 02:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.80	Not Detected
Ethyl Benzene	0.17	0.25	0.75	1.1
m,p-Xylene	0.17	0.90	0.75	3.9
o-Xylene	0.17	0.15 J	0.75	0.64 J
Styrene	0.17	Not Detected	0.74	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.85	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.85	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.85	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.85	Not Detected
1,2,4-Trimethylbenzene	0.17	0.066 J	0.85	0.32 J
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	0.033 J	1.0	0.20 J
alpha-Chlorotoluene	0.86	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.4	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.2	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected

J = Estimated value.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020612r1.d
Lab Smp Id: 1502053Ar1-02A
Inj Date : 06-FEB-2015 14:12
Operator : ef Inst ID: msdv.i
Smp Info : 250mL# 34222
Misc Info : 6.9"Hg - 4.9psi
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 26-Jun-2015 11:38 dbailey Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1
Dil Factor: 1.73000
Integrator: HP RTE Compound Sublist: TO15Nmdl.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
* 54 Bromochloromethane						CAS #: 74-97-5		
15.934	15.934	(1.000)	130	183871	5.00000		80.00- 120.00	100.00
15.934	15.934	(1.000)	128	142661			0.00- 30.00	77.59
15.934	15.934	(1.000)	49	410600			0.00- 30.00	223.31
* 71 1,4-Difluorobenzene						CAS #: 540-36-3		
17.305	17.305	(1.000)	114	802340	5.00000		80.00- 120.00	100.00
17.305	17.305	(1.000)	88	117328			0.00- 30.00	14.62
* 92 Chlorobenzene-d5						CAS #: 3114-55-4		
22.205	22.205	(1.000)	117	631267	5.00000		80.00- 120.00	100.00
22.205	22.205	(1.000)	82	339601			0.00- 30.00	53.80
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.756	16.756	(1.052)	65	304660	5.28605	5.286	80.00- 120.00	100.00
16.756	16.756	(1.052)	67	141952			25.13- 85.13	46.59
$ 80 Toluene-d8						CAS #: 2037-26-5		
19.879	19.879	(1.149)	98	740001	4.92583	4.926	80.00- 120.00	100.00
19.857	19.879	(1.147)	70	79331			0.00- 40.74	10.72

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

$  80 Toluene-d8 (continued)
 19.879  19.879 (1.149)   100    489962                    36.73-  96.73    66.21
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    299053 5.05559    5.056  80.00- 120.00   100.00
 23.678  23.704 (1.066)    95    365042                   95.17- 155.17   122.07
 23.704  23.704 (1.067)   176    292269                   64.74- 124.74    97.73
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.202   5.202 (0.326)    85     41343 0.28205   0.4879  80.00- 120.00   100.00
  5.165   5.202 (0.324)    87     11738                    1.73-  61.73    28.39
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.090   7.053 (0.445)    50     39597 0.41849   0.7240  80.00- 120.00   100.00(a)
  7.128   7.053 (0.447)    52     14826                    1.57-  61.57    37.44
-------------------------------------------------------------------------------
   20 Trichlorofluoromethane/Fr11                   CAS #: 75-69-4
 11.160  11.184 (0.700)   101     19730 0.12628   0.2185  80.00- 120.00   100.00
 11.160  11.184 (0.700)   103     11244                   34.40-  94.40    56.99
-------------------------------------------------------------------------------
   24 Ethanol                                       CAS #: 64-17-5
 12.129  12.102 (0.761)    45    101103 3.00945    5.206  80.00- 120.00   100.00
 12.129  12.102 (0.761)    46     40389                    9.93-  69.93    39.95
 12.129  12.102 (0.761)    43     25014                    0.00-  50.31    24.74
-------------------------------------------------------------------------------
   28 Freon 113                                     CAS #: 76-13-1
 12.569  12.569 (0.789)   151      4663 0.04170  0.07214  80.00- 120.00   100.00(a)
 12.569  12.569 (0.789)   153      2753                   33.38-  93.38    59.04
 12.569  12.569 (0.789)   101      5529                   85.19- 145.19   118.57
-------------------------------------------------------------------------------
   31 Acetone                                       CAS #: 67-64-1
 12.816  12.816 (0.804)    58    164719 3.87973    6.712  80.00- 120.00   100.00
 12.816  12.816 (0.804)    43    637048                  326.03- 386.03   386.75
-------------------------------------------------------------------------------
   34 2-Propanol                                    CAS #: 67-63-0
 13.173  13.173 (0.827)    45   1552531 9.23905   15.984  80.00- 120.00   100.00
 13.173  13.173 (0.827)    43    287365                    0.00-  47.97    18.51
 13.173  13.173 (0.827)    59     46529                    0.00-  33.25     3.00
-------------------------------------------------------------------------------
   37 Methylene Chloride                            CAS #: 75-09-2
 13.667  13.640 (0.858)    84     32165 0.61352    1.061  80.00- 120.00   100.00
 13.640  13.640 (0.856)    49     83140                  198.57- 258.57   258.48
 13.640  13.640 (0.856)    51     26782                   41.48- 101.48    83.26
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57     28985 0.19549   0.3382  80.00- 120.00   100.00
```

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

   43 Hexane (continued)
 14.381  14.381 (0.903)    43     27569                    41.32- 101.32    95.11
 14.409  14.381 (0.904)    86      3083                     0.00-  40.13    10.64
-------------------------------------------------------------------------------
   51 2-Butanone                                   CAS #: 78-93-3
 15.592  15.572 (0.979)    72      5198 0.18060   0.3124  80.00- 120.00   100.00(a)
 15.613  15.572 (0.980)    43     49592                   687.17- 747.17   954.06
 15.613  15.572 (0.980)    57      2616                    23.39-  83.39    50.33
-------------------------------------------------------------------------------
   55 Chloroform                                   CAS #: 67-66-3
 15.995  15.995 (1.004)    83     15716 0.12269   0.2122  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85     10121                    35.10-  95.10    64.40
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                         CAS #: 56-23-5
 16.458  16.458 (1.033)   119      6546 0.05025  0.08693  80.00- 120.00   100.00(a)
 16.458  16.458 (1.033)   117      5481                    67.96- 127.96    83.73
                   Sum of Peak Concentrations =  0.08693
-------------------------------------------------------------------------------
   64 Benzene                                      CAS #: 71-43-2
 16.756  16.756 (0.968)    78     13195 0.06624   0.1146  80.00- 120.00   100.00(a)
 16.783  16.756 (0.970)    77      2935                     0.00-  53.39    22.24
-------------------------------------------------------------------------------
   69 Heptane                                      CAS #: 142-82-5
 16.948  16.975 (0.979)    57      4832 0.05124  0.08864  80.00- 120.00   100.00(a)
 16.948  16.975 (0.979)   100      1385                     0.00-  51.16    28.66
 16.975  16.975 (0.981)    43     13784                   180.62- 240.62   285.26
-------------------------------------------------------------------------------
   79 4-Methyl-2-pentanone                         CAS #: 108-10-1
 19.588  19.588 (1.132)    43    120201 0.43128   0.7461  80.00- 120.00   100.00
 19.588  19.588 (1.132)    58     40599                     3.17-  63.17    33.78
 19.610  19.588 (1.133)    85     10296                     0.00-  40.09     8.57
-------------------------------------------------------------------------------
   81 Toluene                                      CAS #: 108-88-3
 19.991  19.991 (1.155)    91    287084 1.26487    2.188  80.00- 120.00   100.00
 19.991  19.991 (1.155)    92    167953                    28.34-  88.34    58.50
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                CAS #: 100-41-4
 22.315  22.315 (1.005)   106     13581 0.14571   0.2521  80.00- 120.00   100.00
 22.315  22.315 (1.005)    91     42749                   260.31- 320.31   314.77
-------------------------------------------------------------------------------
   96 m,p-Xylene                                   CAS #: 108-38-3
 22.480  22.480 (1.012)   106     48908 0.51953   0.8988  80.00- 120.00   100.00
 22.480  22.480 (1.012)    91     95483                   157.23- 217.23   195.23
-------------------------------------------------------------------------------
  100 o-Xylene                                     CAS #: 95-47-6
 23.002  23.002 (1.036)   106      7321 0.08459   0.1463  80.00- 120.00   100.00(a)
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
100 o-Xylene (continued)								
23.002	23.002	(1.036)	91	13045			167.76- 227.76	178.19
120 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
24.529	24.529	(1.105)	105	6080	0.03827	0.06621	80.00- 120.00	100.00(a)
24.529	24.529	(1.105)	120	2663			0.00- 30.00	43.80
124 1,4-Dichlorobenzene						CAS #: 106-46-7		
25.015	24.992	(1.127)	146	2444	0.01921	0.03323	80.00- 120.00	100.00(a)
24.992	24.992	(1.125)	148	1343			34.01- 94.01	54.95
24.992	24.992	(1.125)	111	914			8.58- 68.58	37.40

QC Flag Legend

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

Report Date: 26-Jun-2015 11:39

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020612r1.d
Lab Smp Id: 1502053Ar1-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 6.9"Hg - 4.9psi

Calibration Date: 06-FEB-2015
Calibration Time: 06:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	183871	-12.86
71 1,4-Difluorobenze	830109	498065	1162153	802340	-3.35
92 Chlorobenzene-d5	628752	377251	880253	631267	0.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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: 26-Jun-2015 11:39

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 06Feb2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1502053Ar1-02A
Level: LOW
Operator: ef
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 6.9"Hg - 4.9psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	5.286	105.72	70-130
$ 80 Toluene-d8	5.000	4.926	98.52	70-130
$ 106 Bromofluorobenzene	5.000	5.056	101.11	70-130

Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

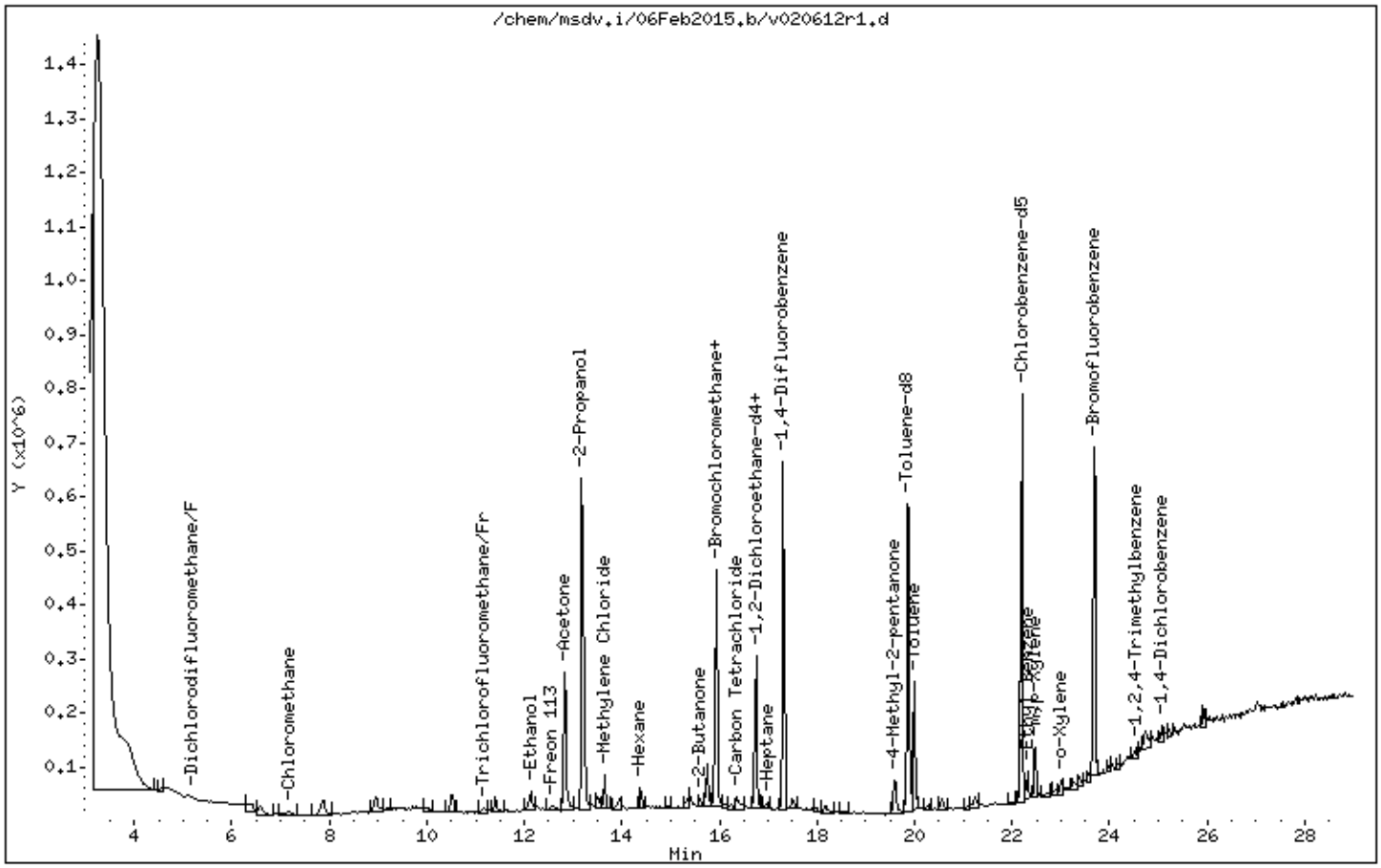
Instrument: msdv.i

Sample Info: 250mL# 34222

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

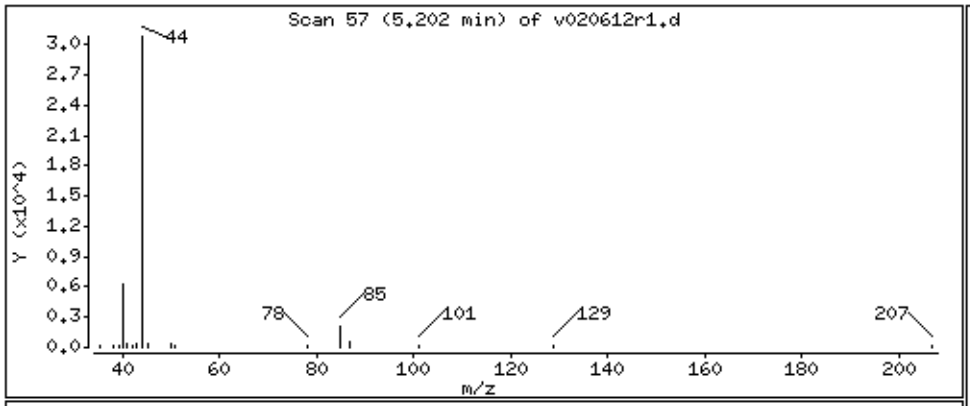
Operator: ef

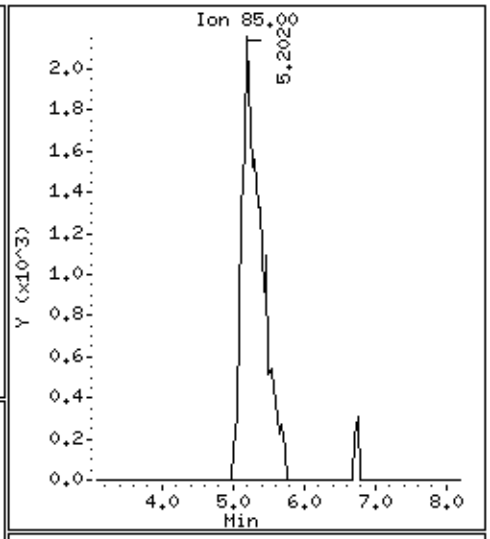
Column phase: RTx-624

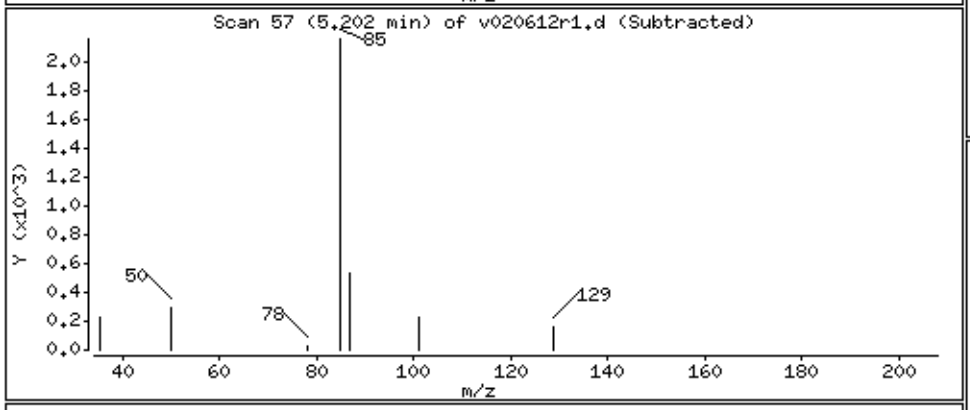
Column diameter: 0.32

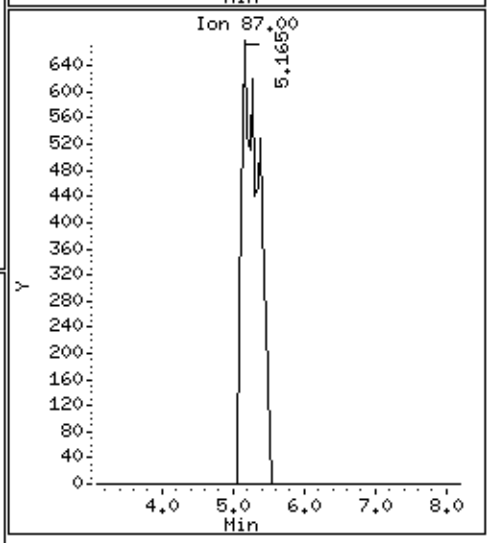
4 Dichlorodifluoromethane/Fr12

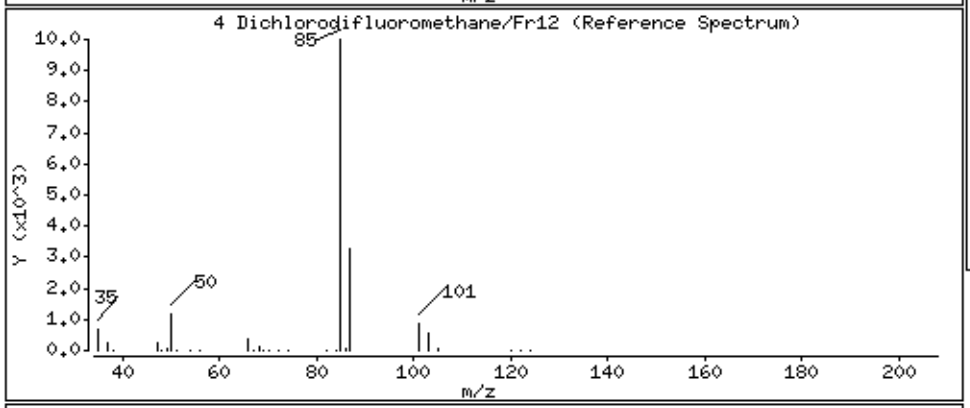
Concentration: 0.4879 PPBV

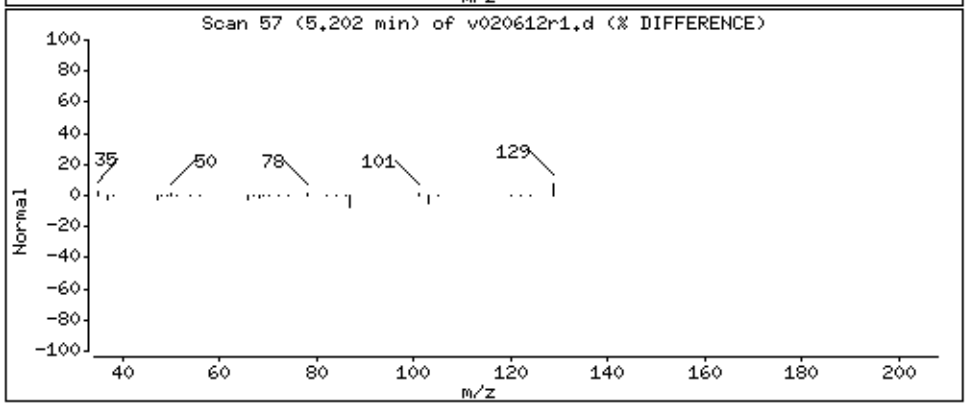












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

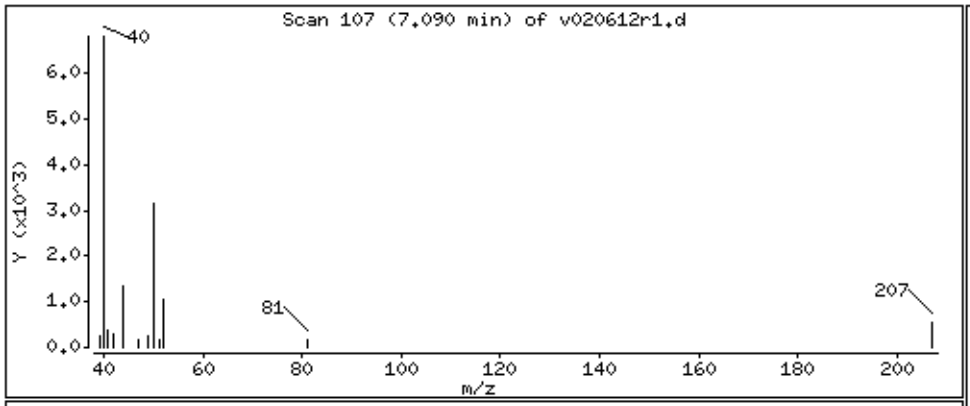
Operator: ef

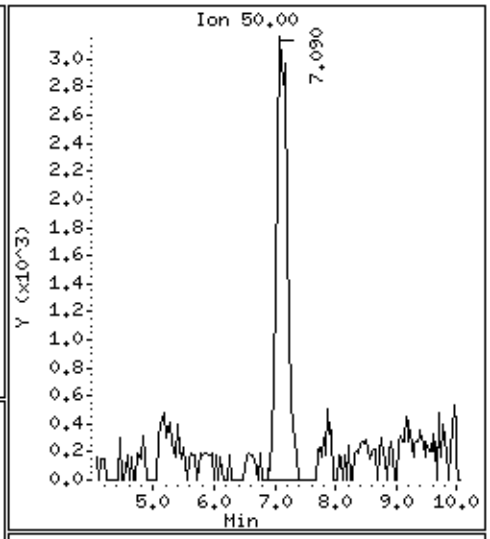
Column phase: RTx-624

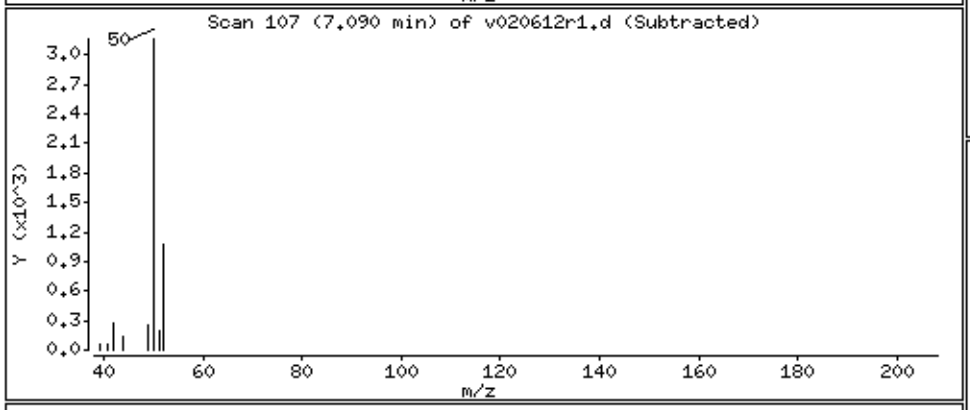
Column diameter: 0.32

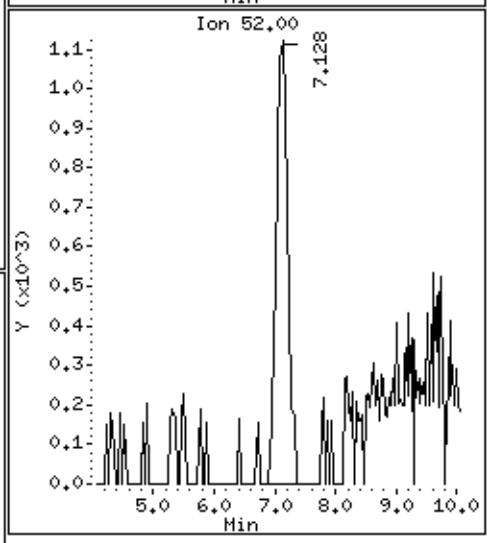
8 Chloromethane

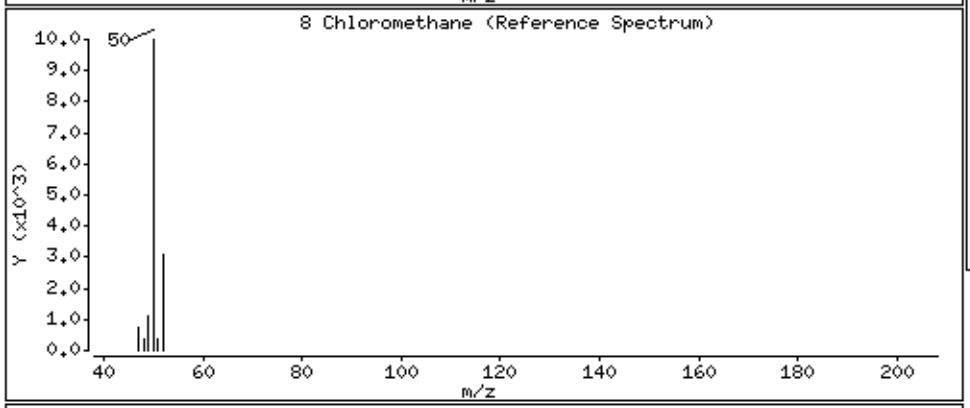
Concentration: 0.7240 PPBV

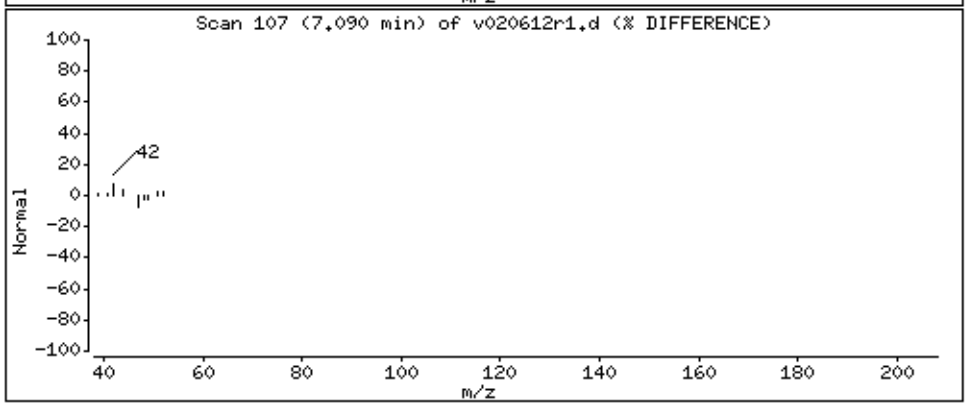












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

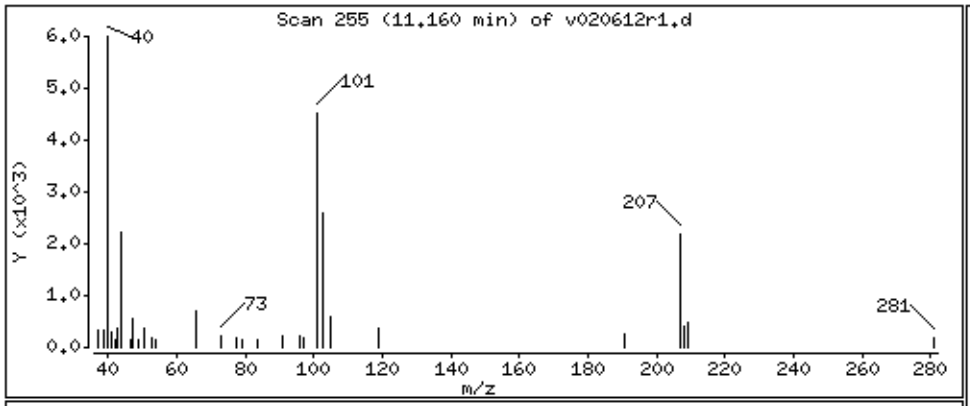
Operator: ef

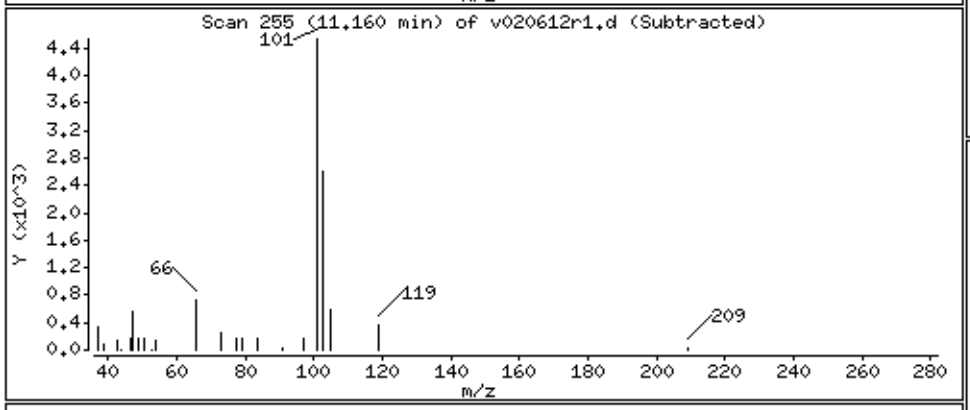
Column phase: RTx-624

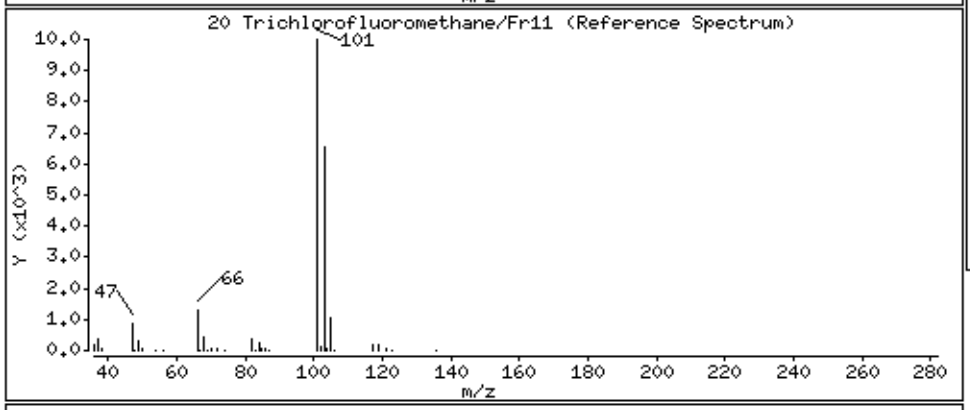
Column diameter: 0.32

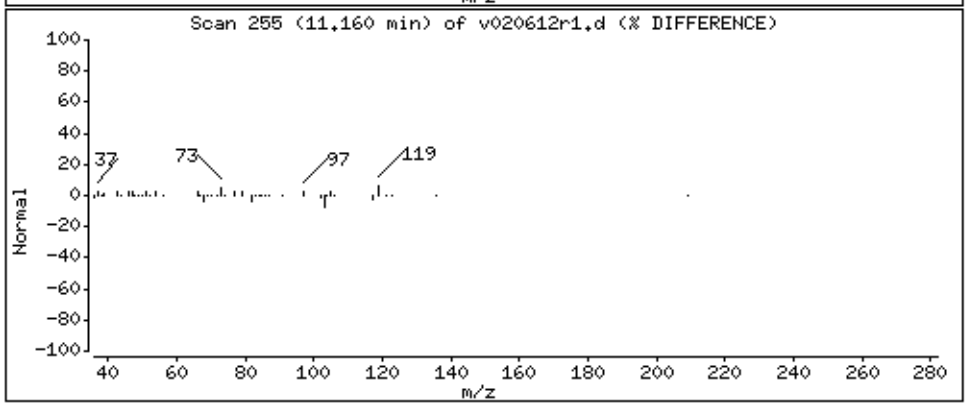
20 Trichlorofluoromethane/Fr11

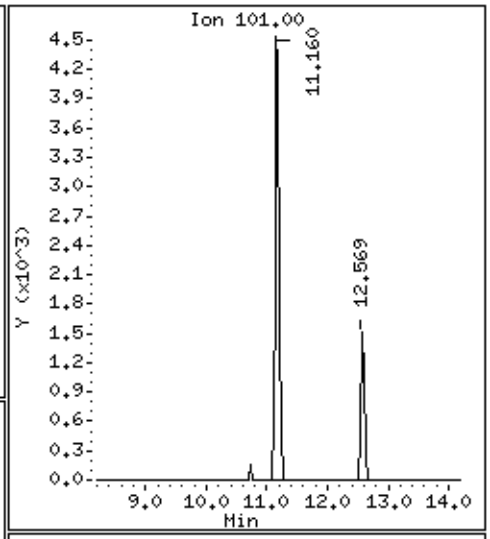
Concentration: 0.2185 PPBV

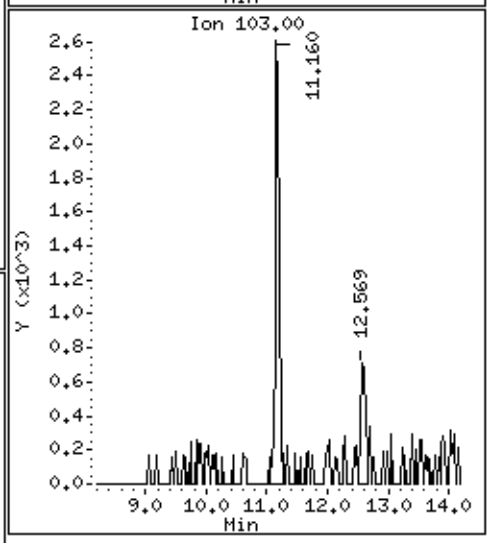












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

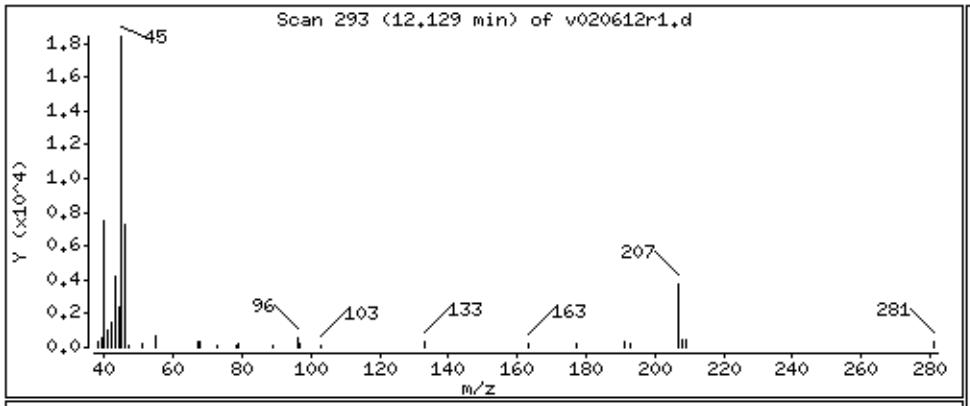
Operator: ef

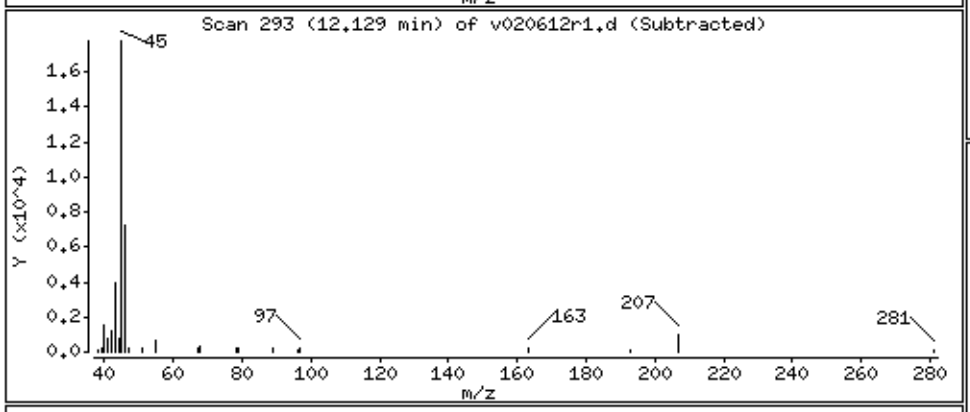
Column phase: RTx-624

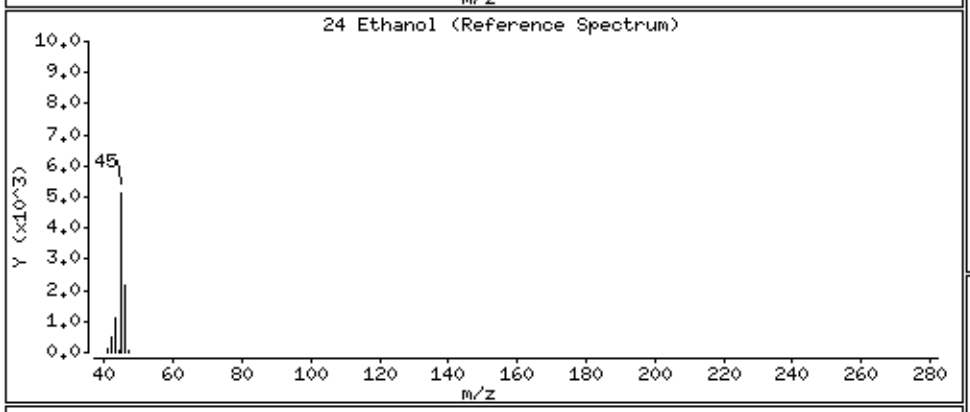
Column diameter: 0.32

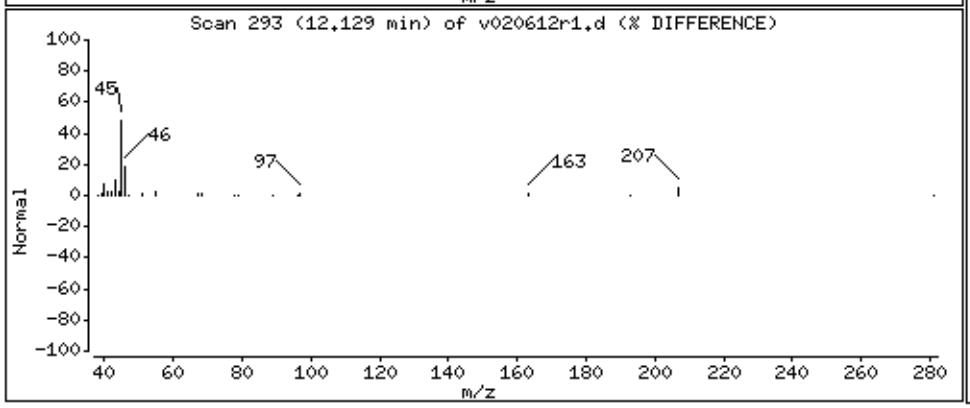
24 Ethanol

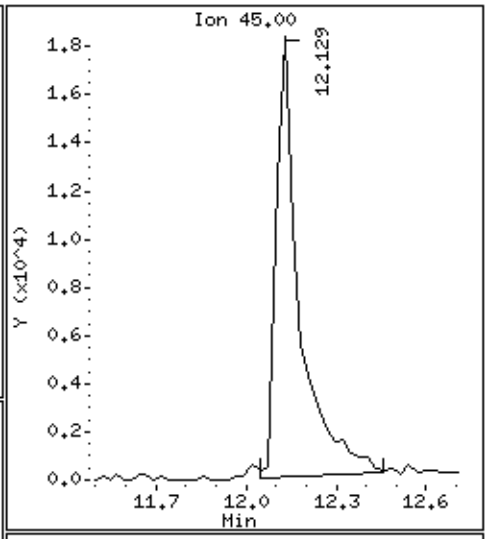
Concentration: 5.206 PPBV

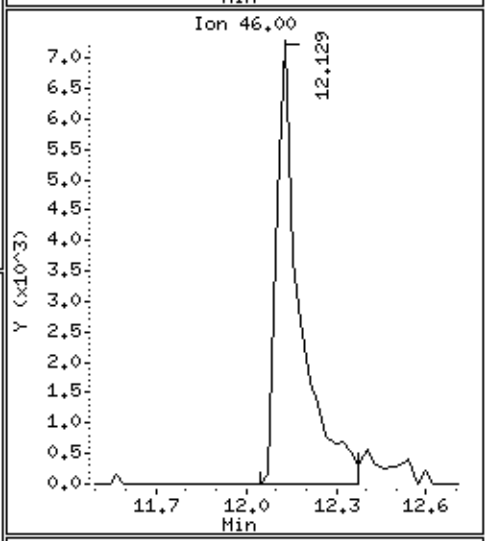


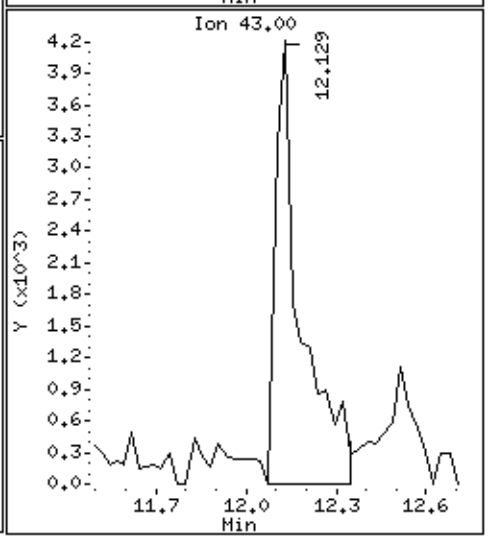












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

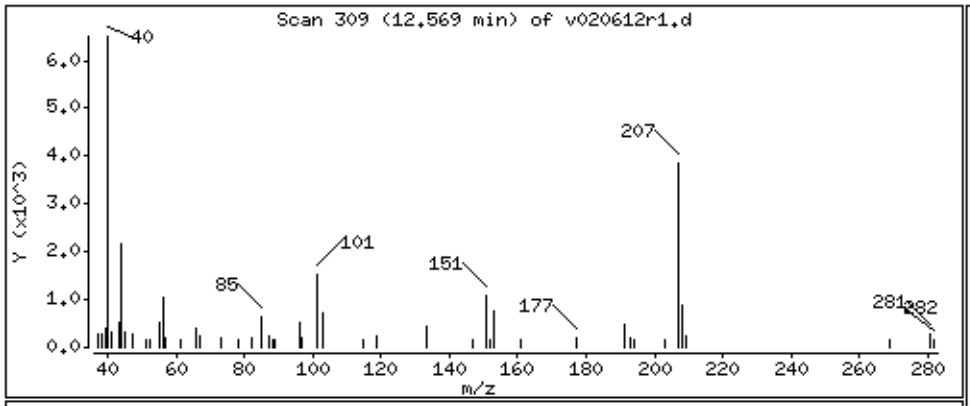
Operator: ef

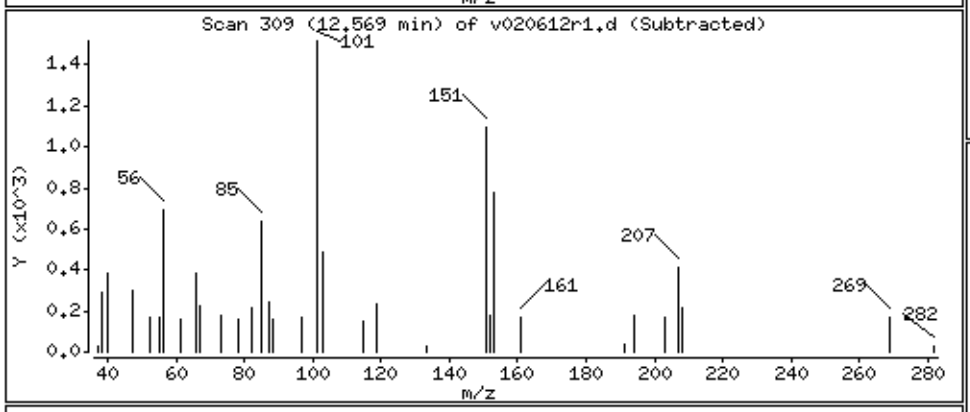
Column phase: RTx-624

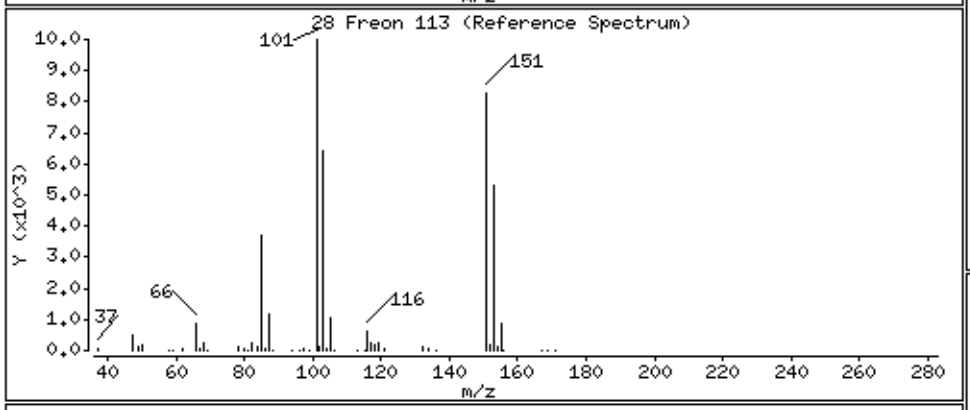
Column diameter: 0.32

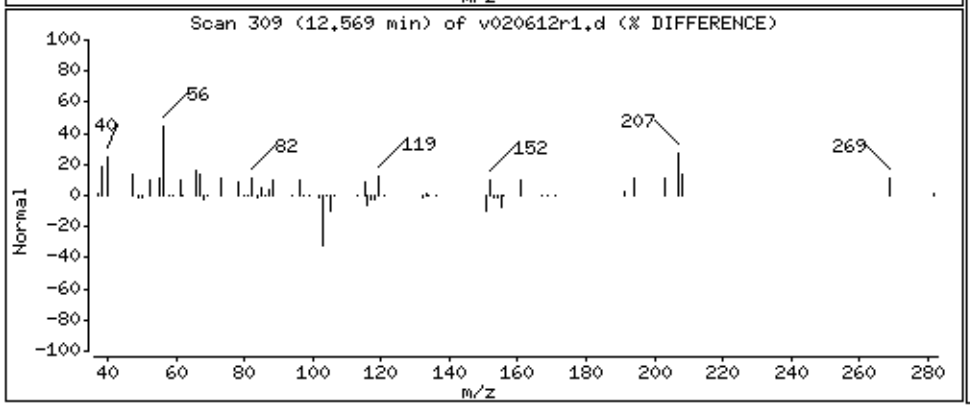
28 Freon 113

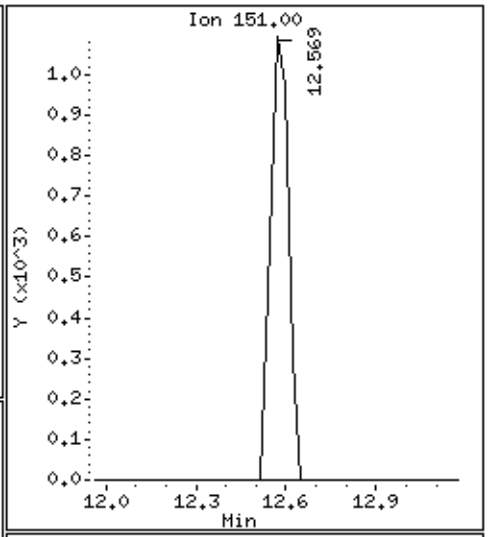
Concentration: 0.07214 PPBV

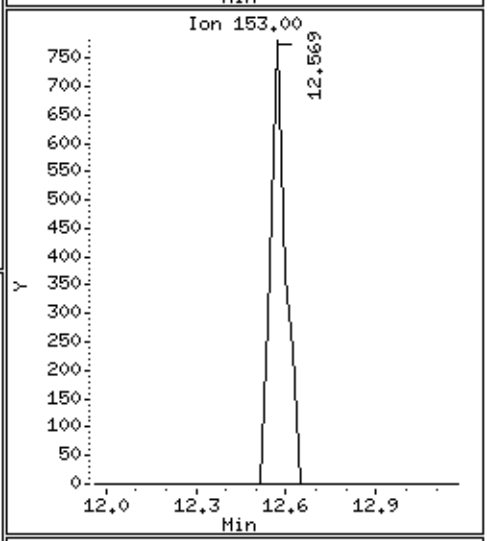


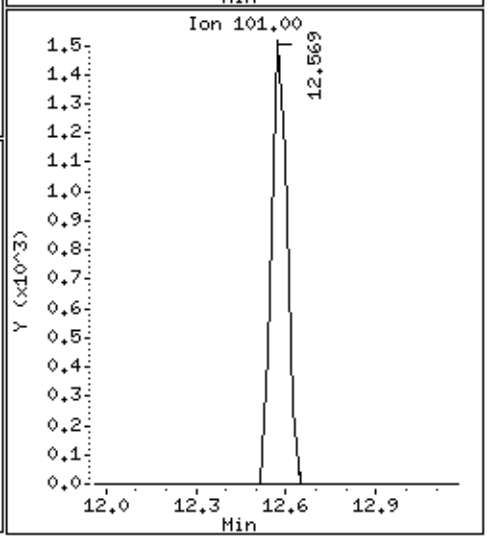












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

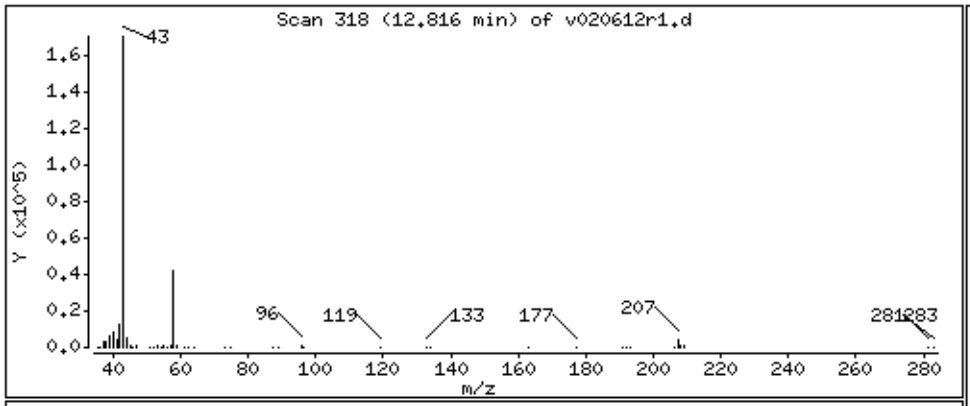
Operator: ef

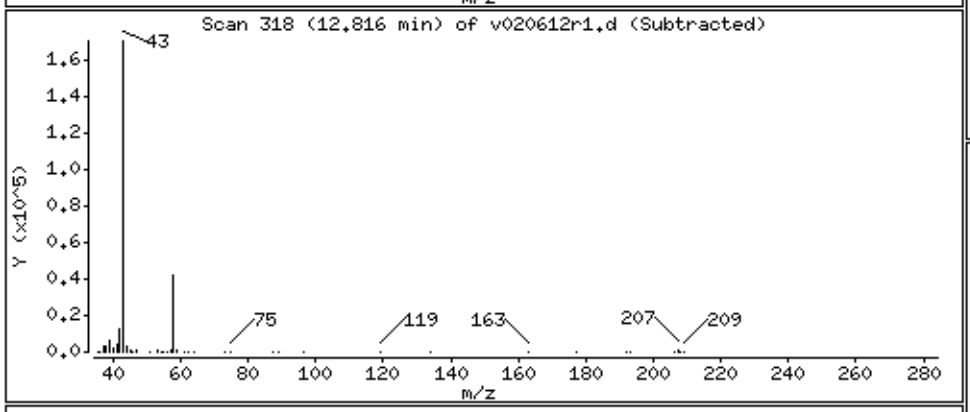
Column phase: RTx-624

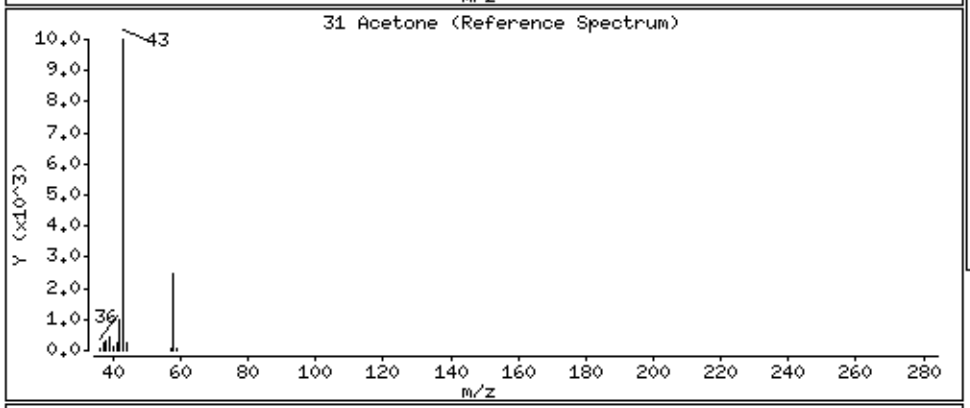
Column diameter: 0.32

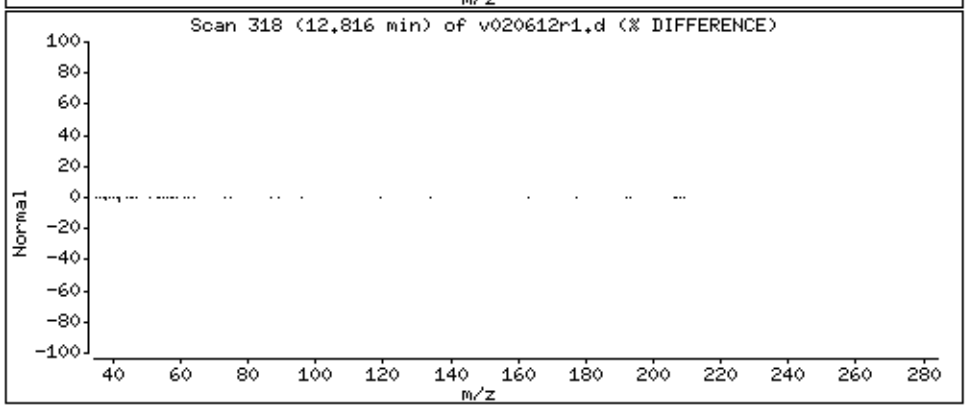
31 Acetone

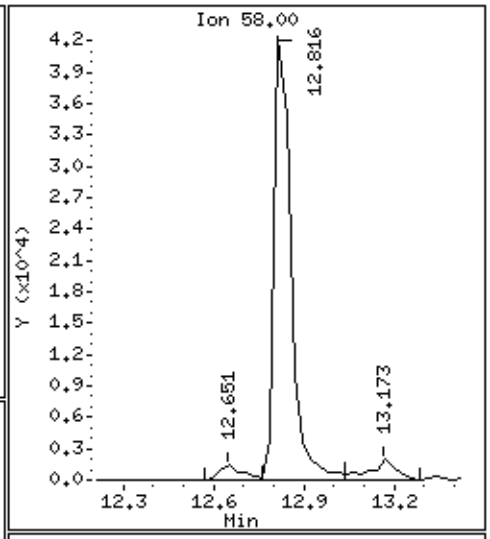
Concentration: 6.712 PPBV

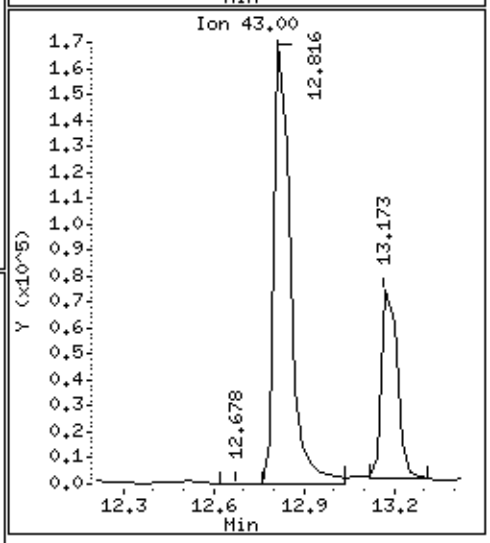












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

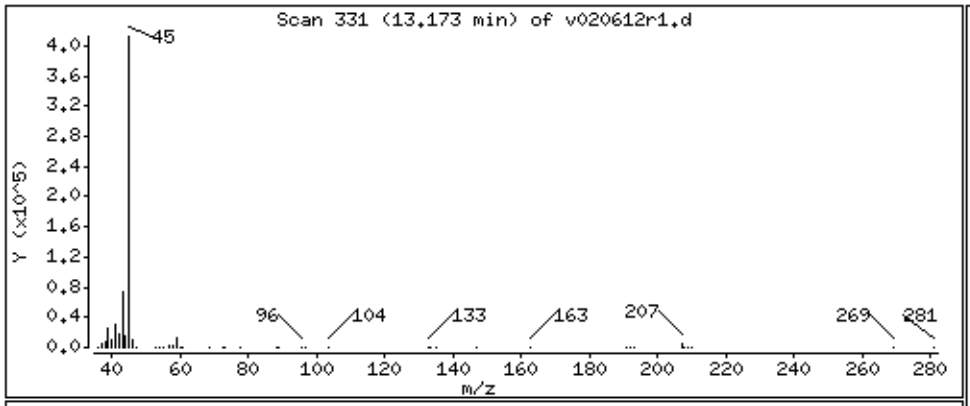
Operator: ef

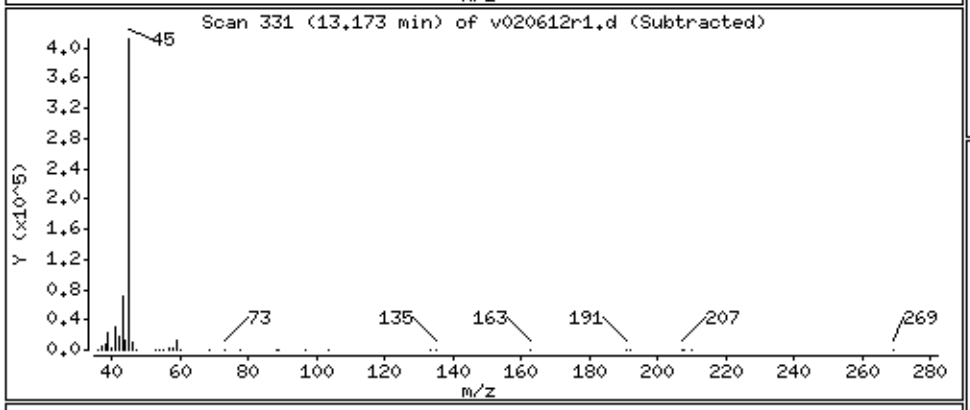
Column phase: RTx-624

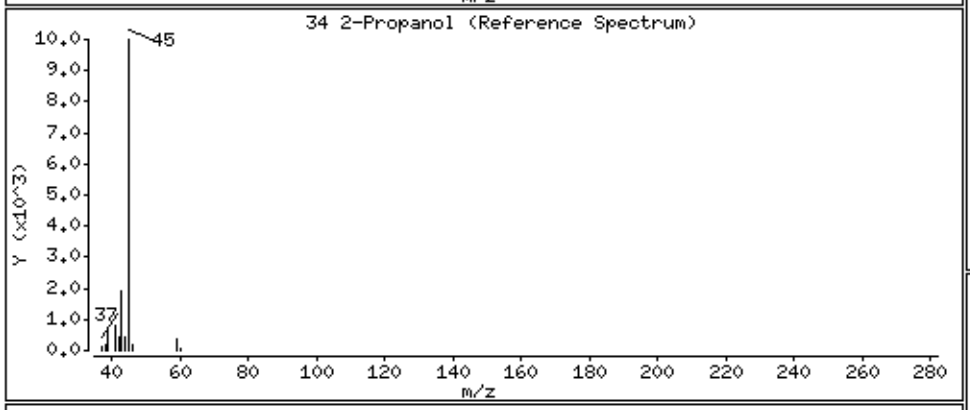
Column diameter: 0.32

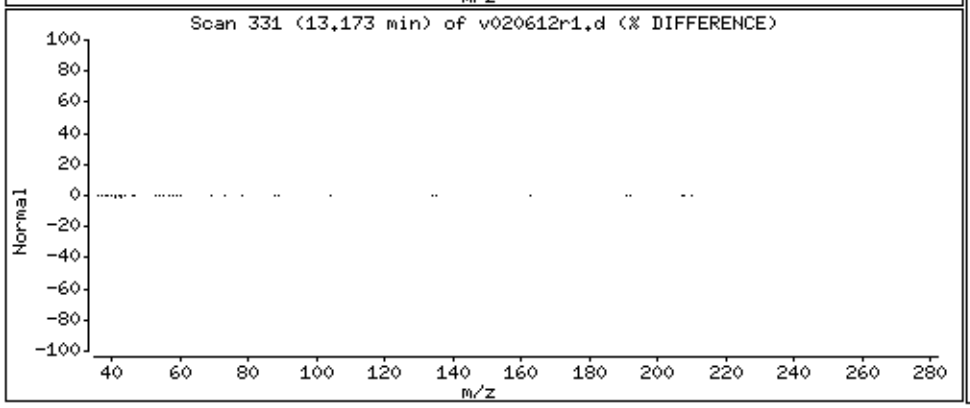
34 2-Propanol

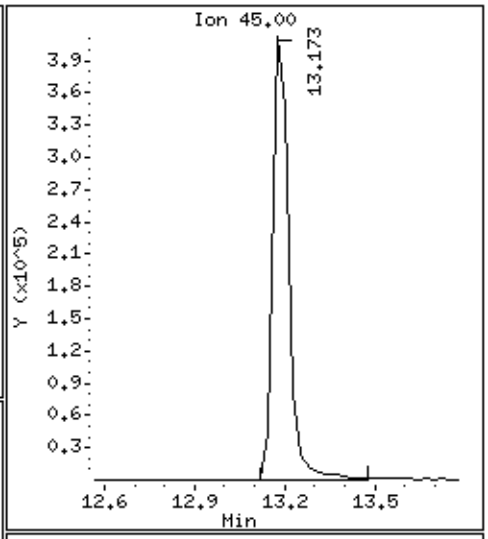
Concentration: 15.984 PPBV

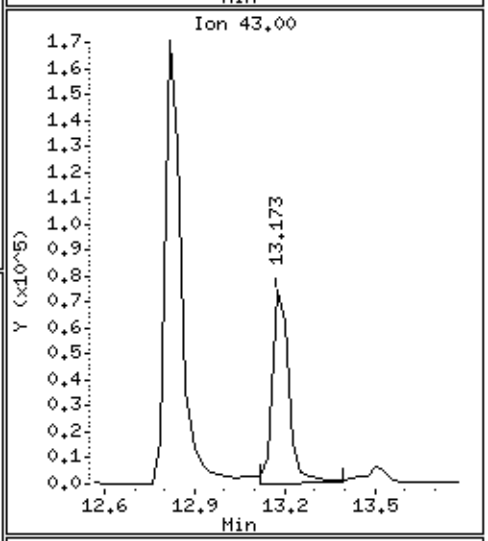


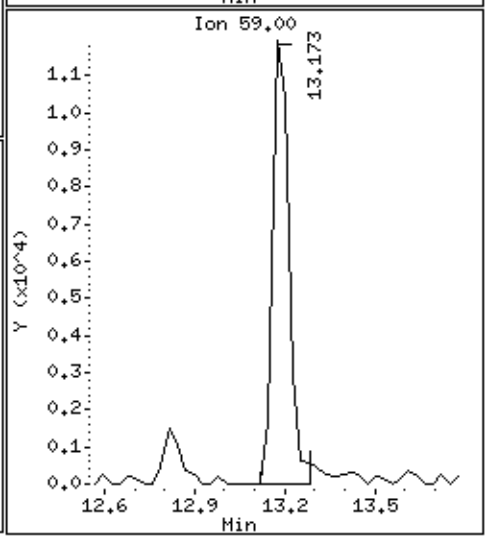












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

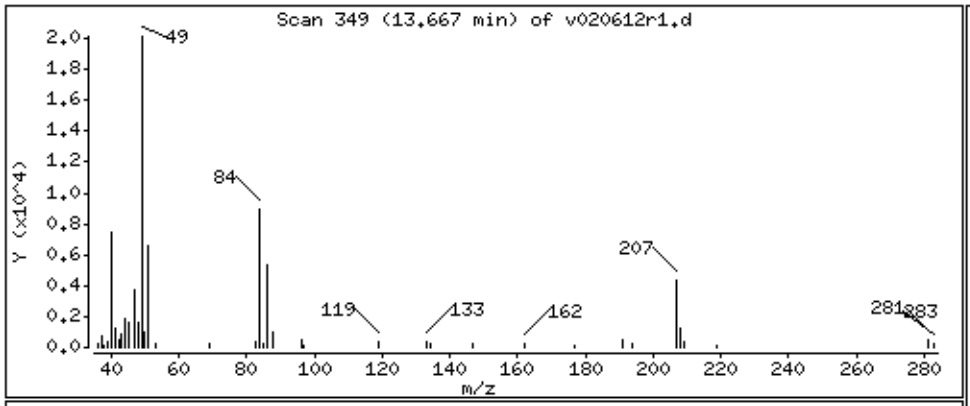
Operator: ef

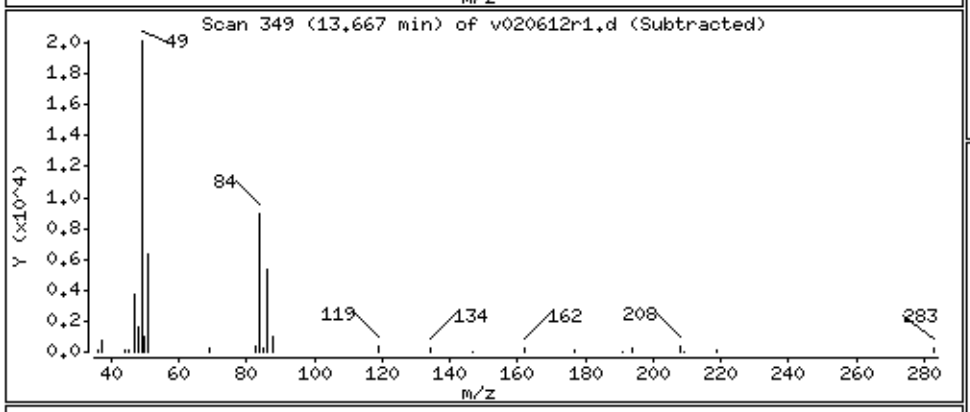
Column phase: RTx-624

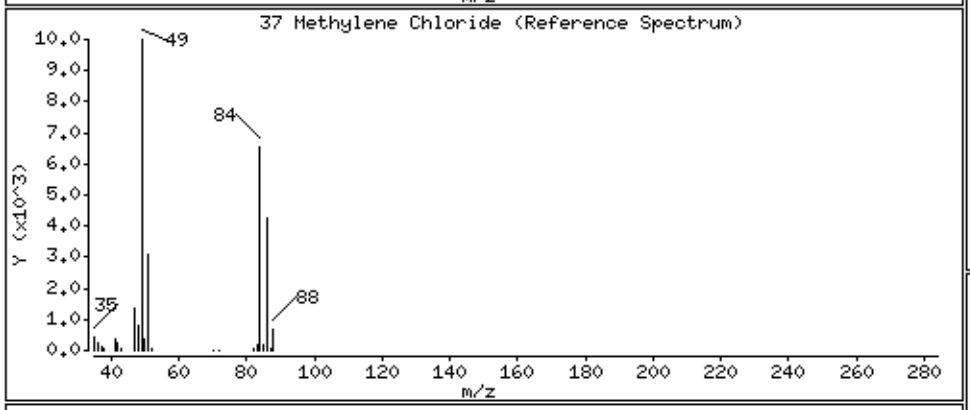
Column diameter: 0.32

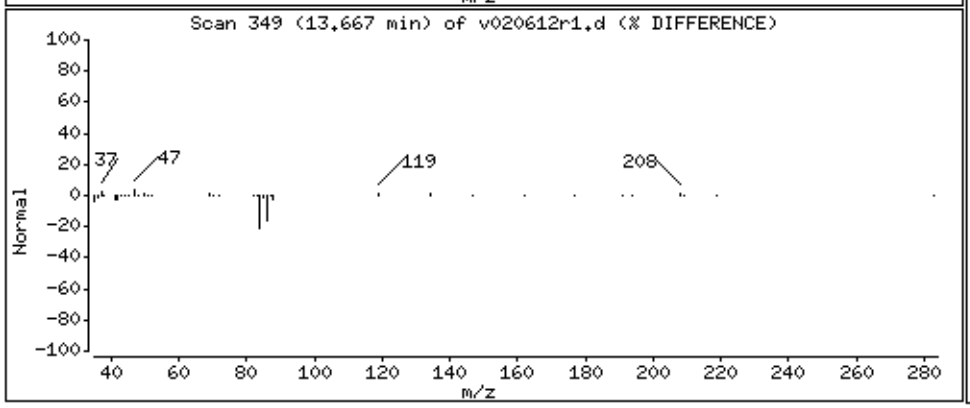
37 Methylene Chloride

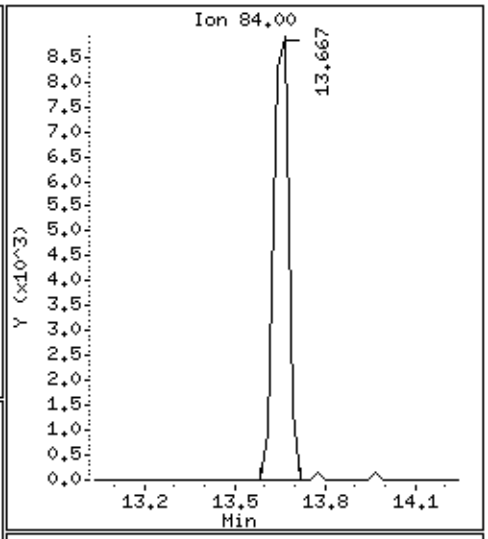
Concentration: 1.061 PPBV

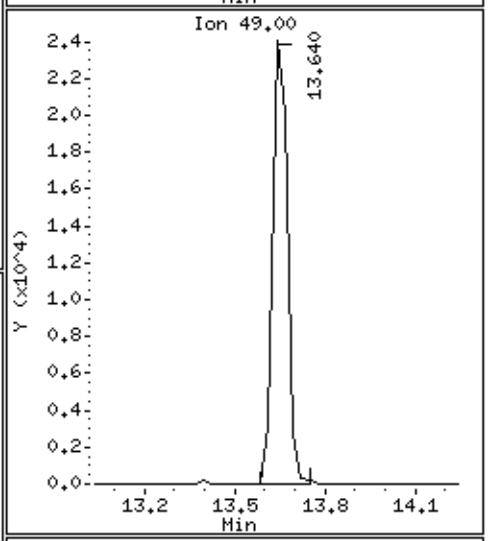


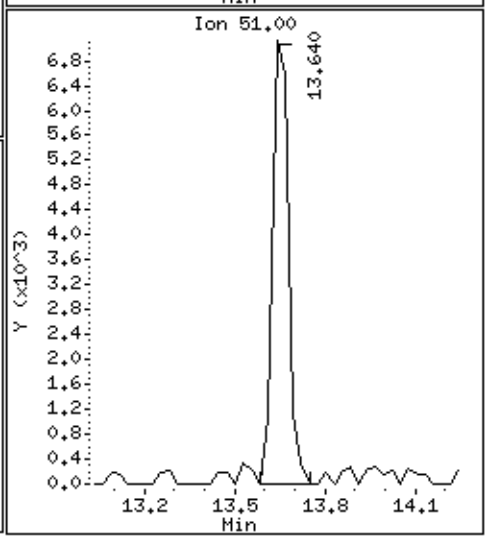












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

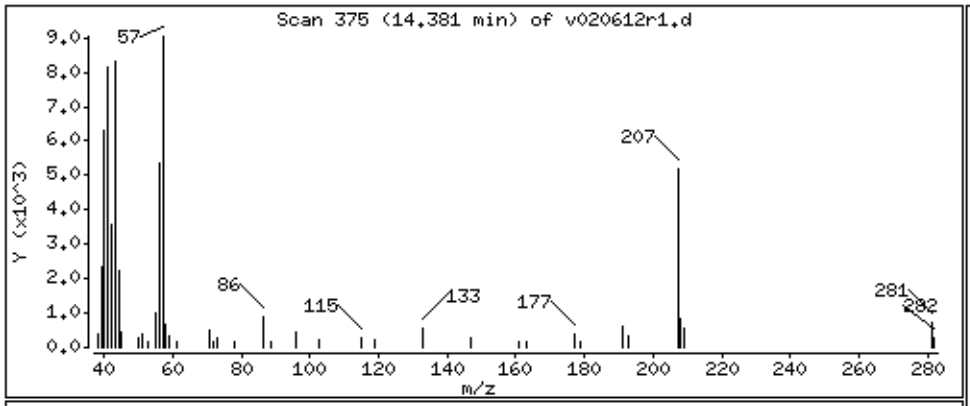
Operator: ef

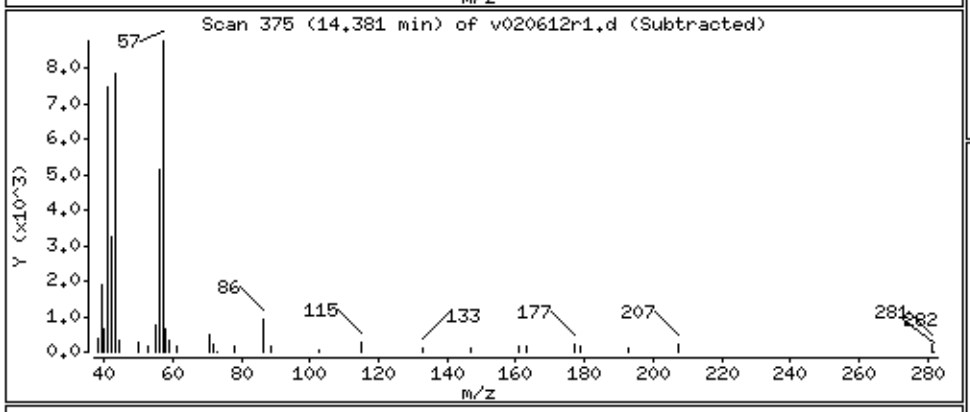
Column phase: RTx-624

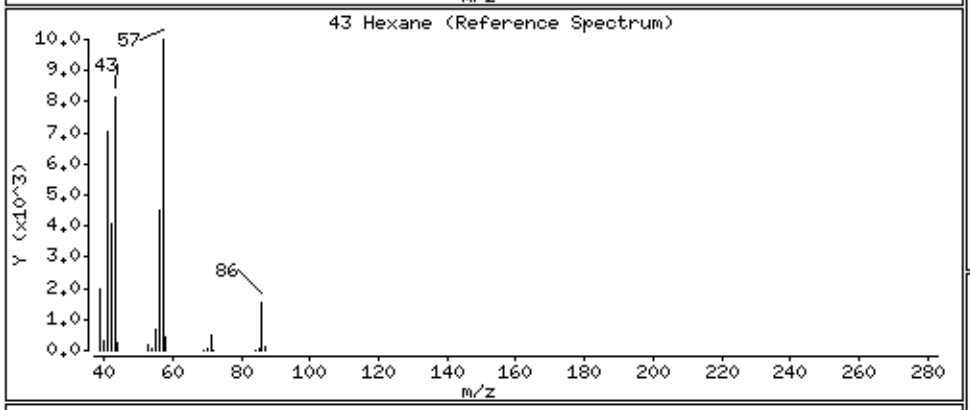
Column diameter: 0.32

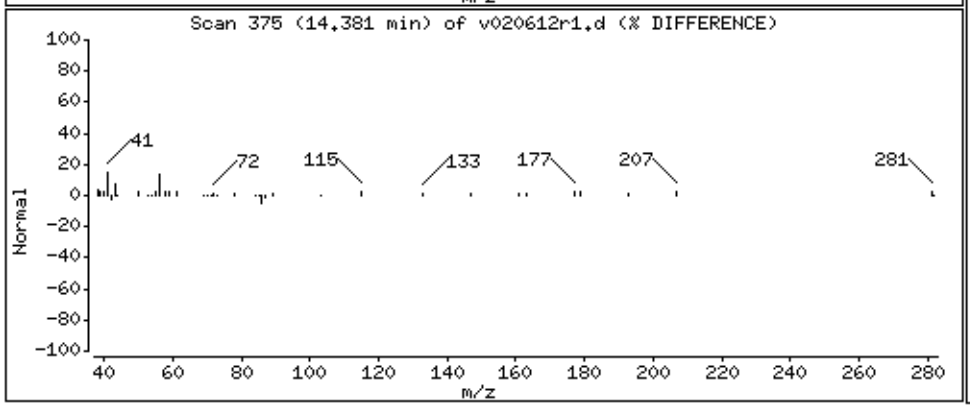
43 Hexane

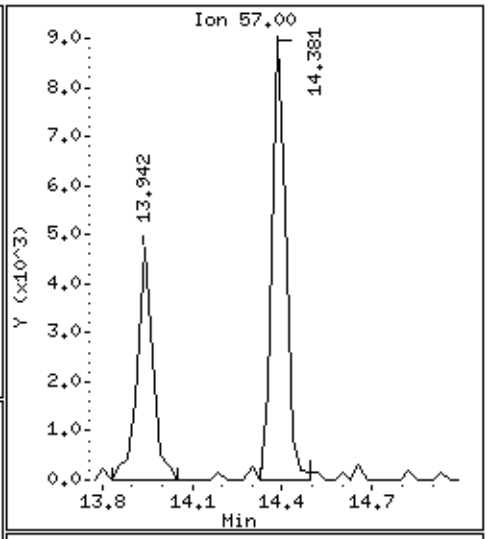
Concentration: 0.3382 PPBV

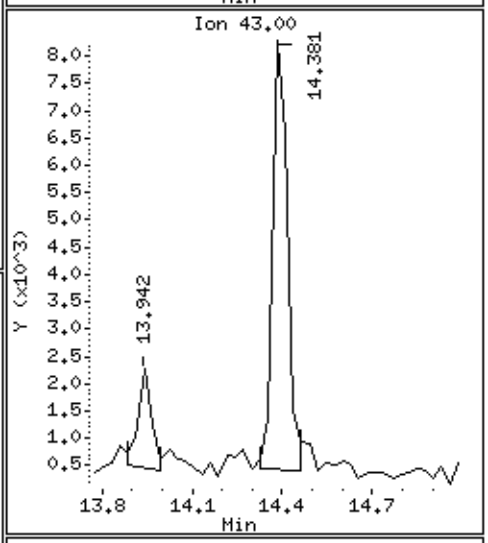


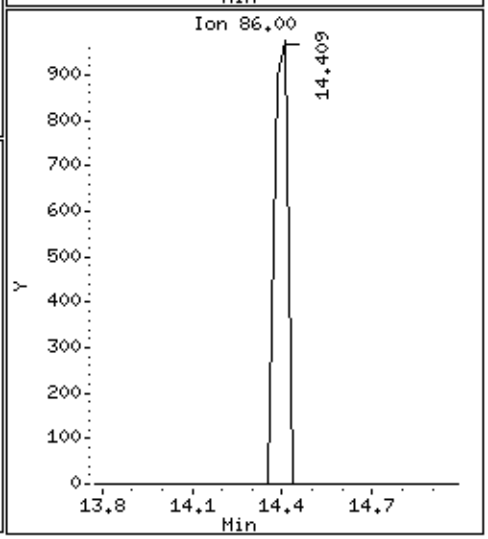












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

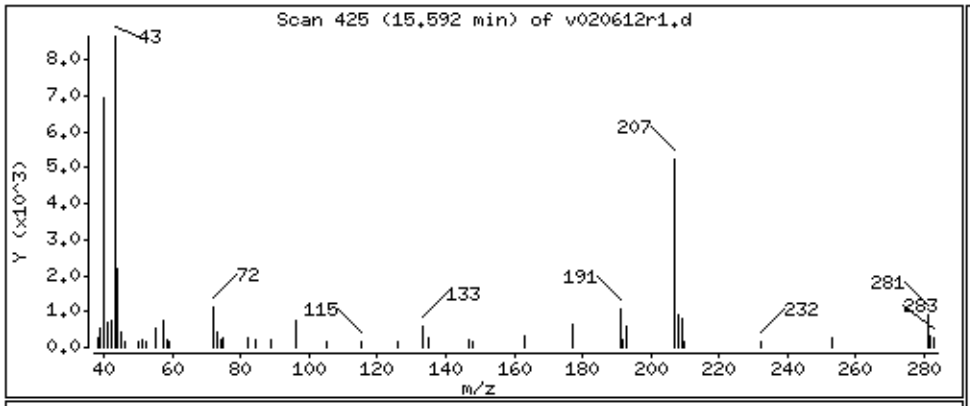
Operator: ef

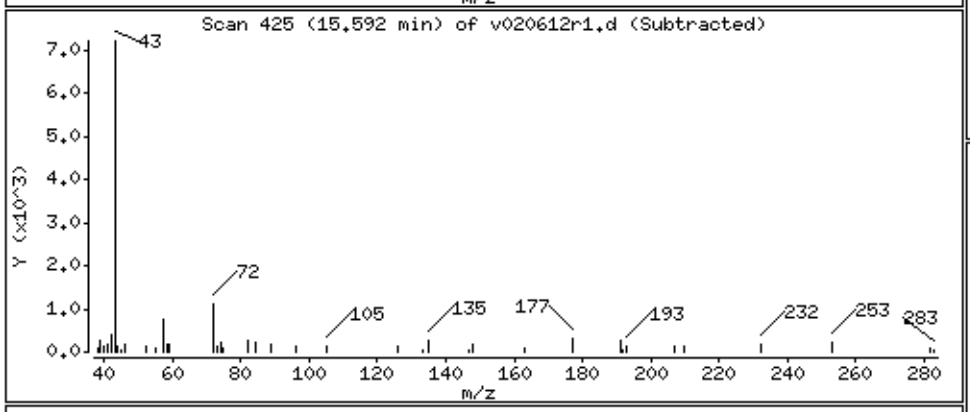
Column phase: RTx-624

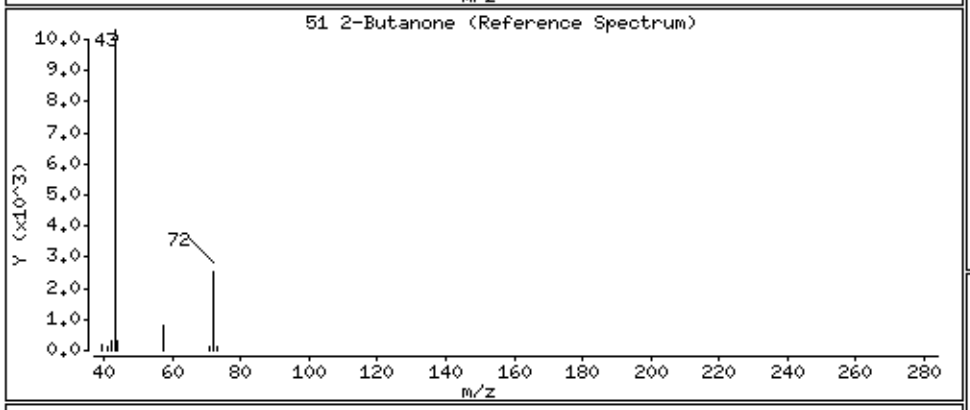
Column diameter: 0.32

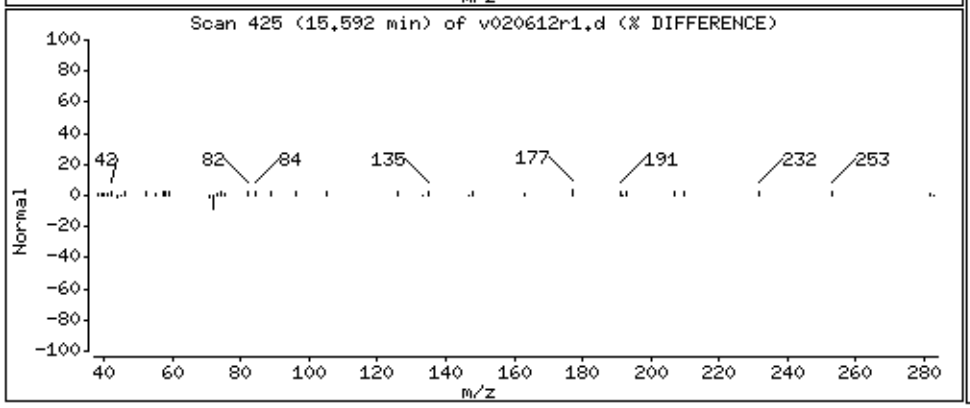
51 2-Butanone

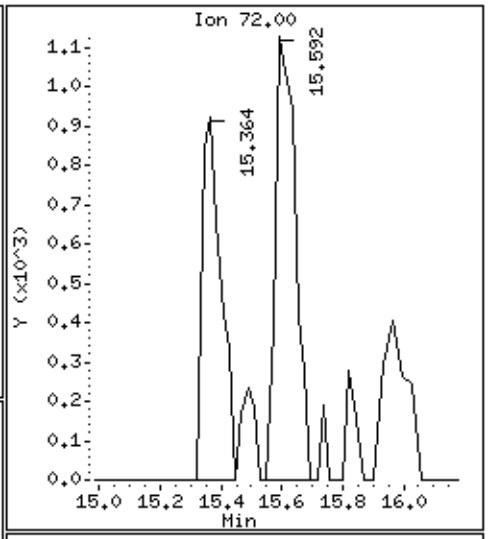
Concentration: 0.3124 PPBV

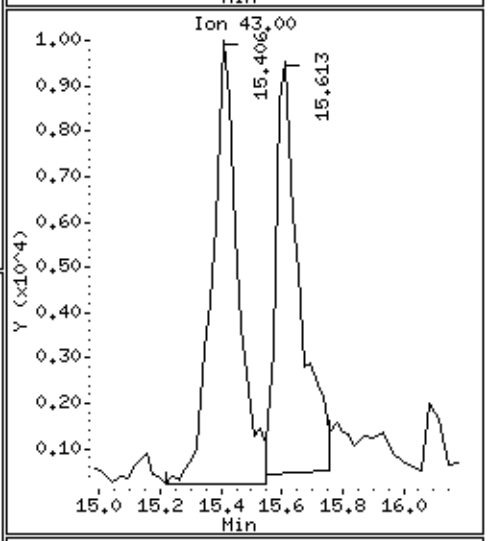


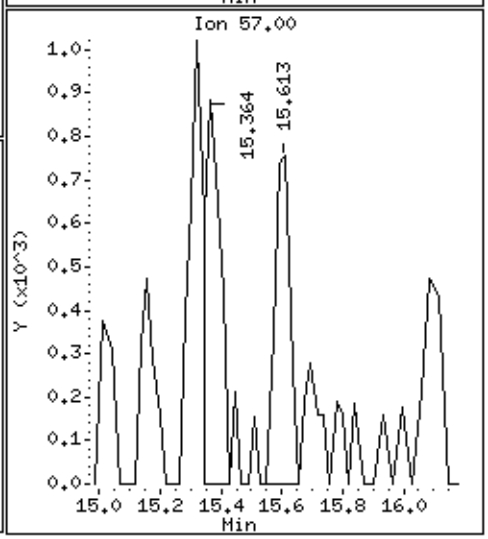












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

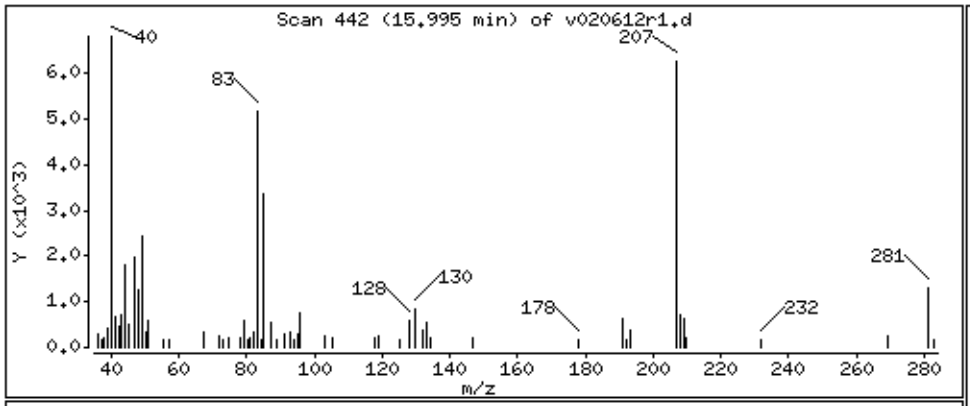
Operator: ef

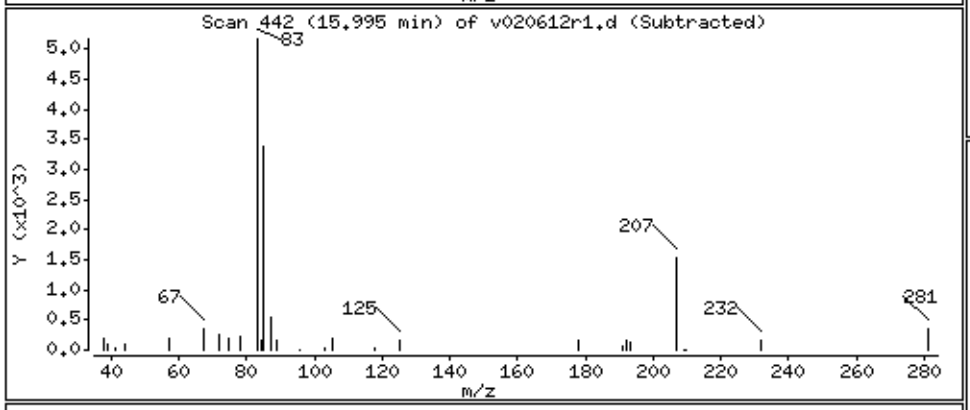
Column phase: RTx-624

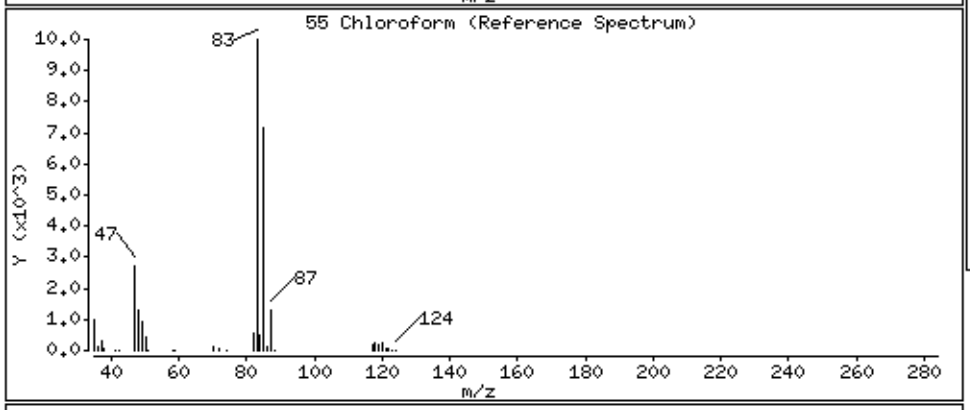
Column diameter: 0.32

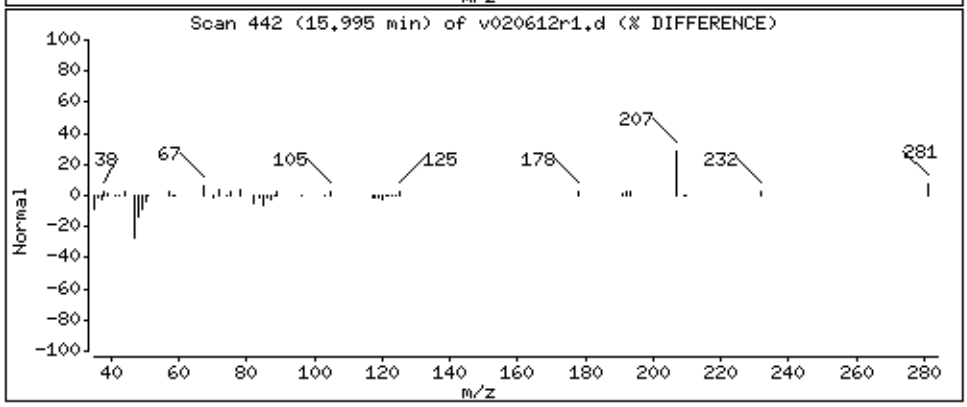
55 Chloroform

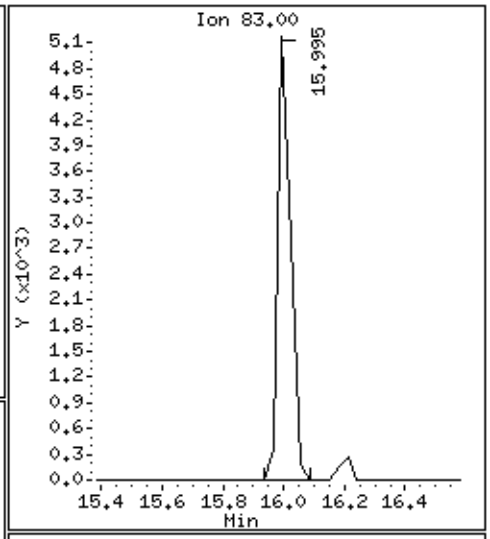
Concentration: 0.2122 PPBV

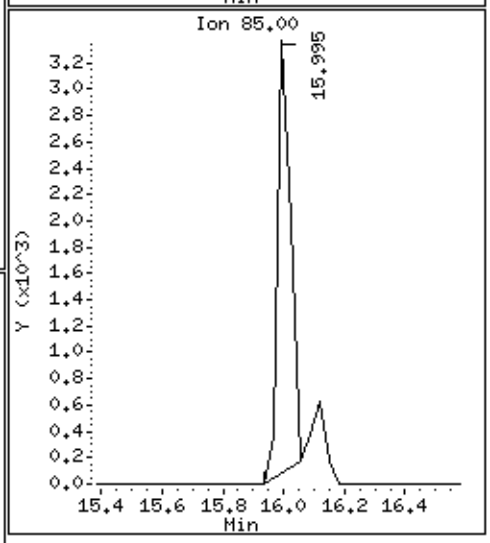












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

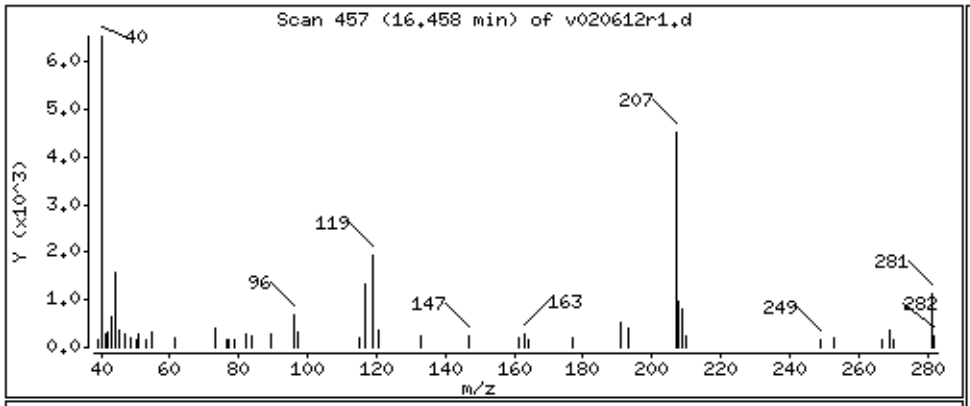
Operator: ef

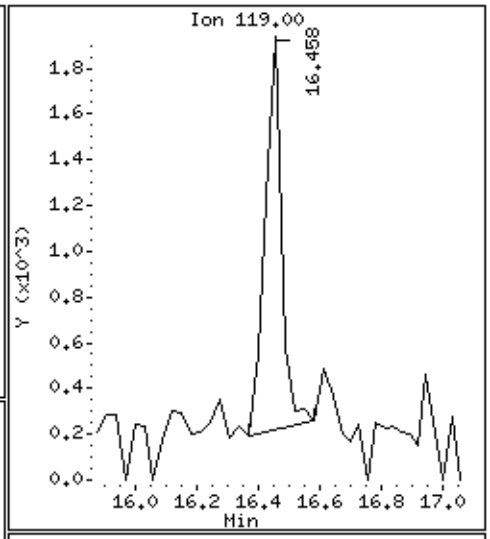
Column phase: RTx-624

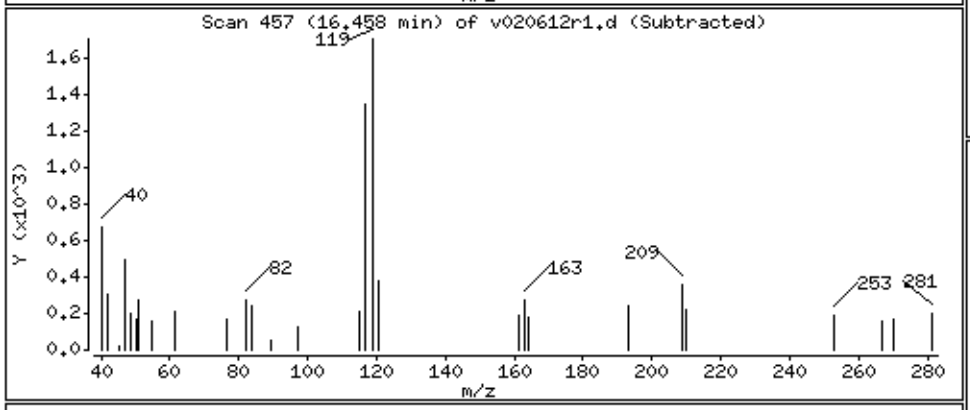
Column diameter: 0.32

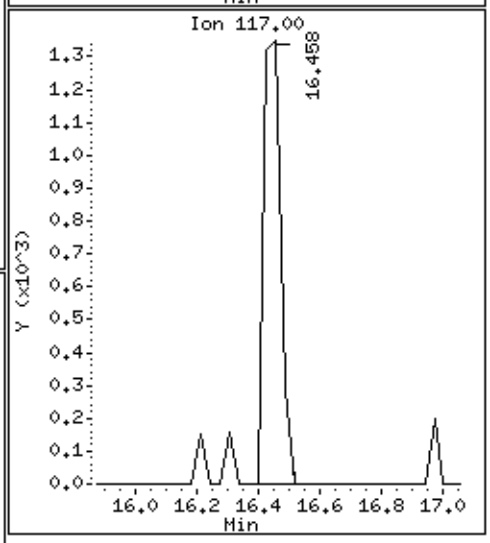
59 Carbon Tetrachloride

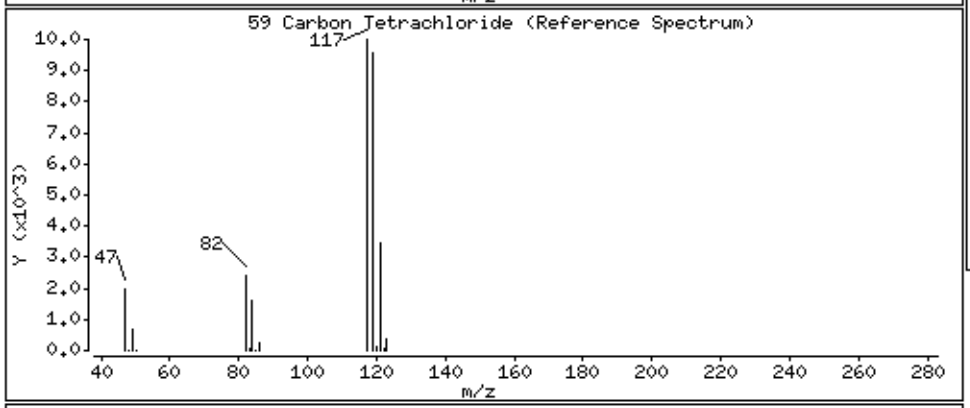
Concentration: 0.08693 PPBV

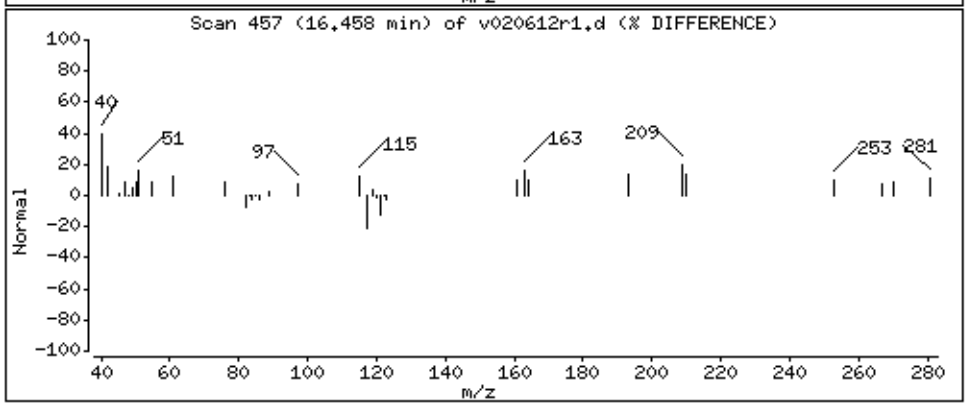












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

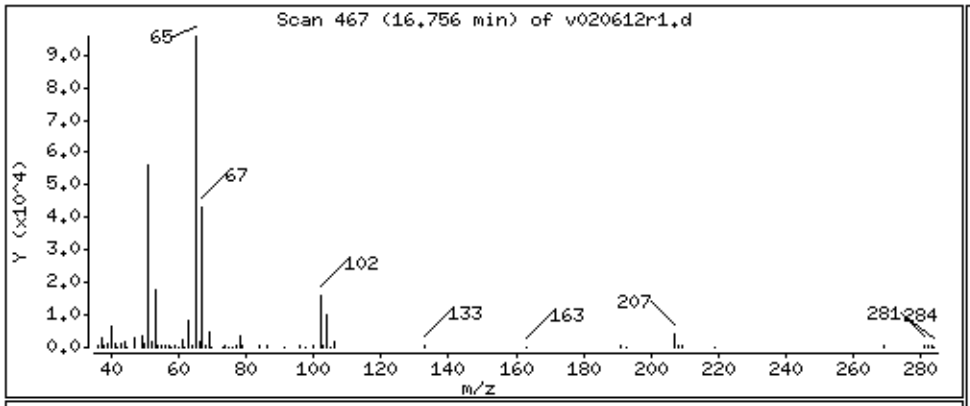
Operator: ef

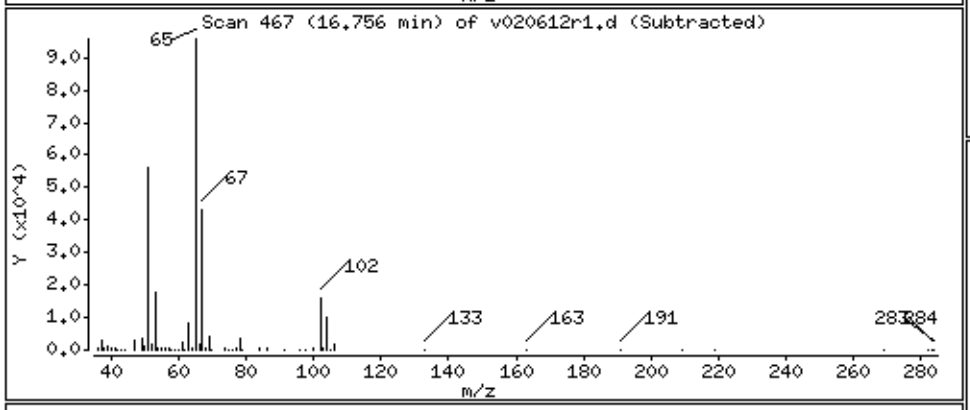
Column phase: RTx-624

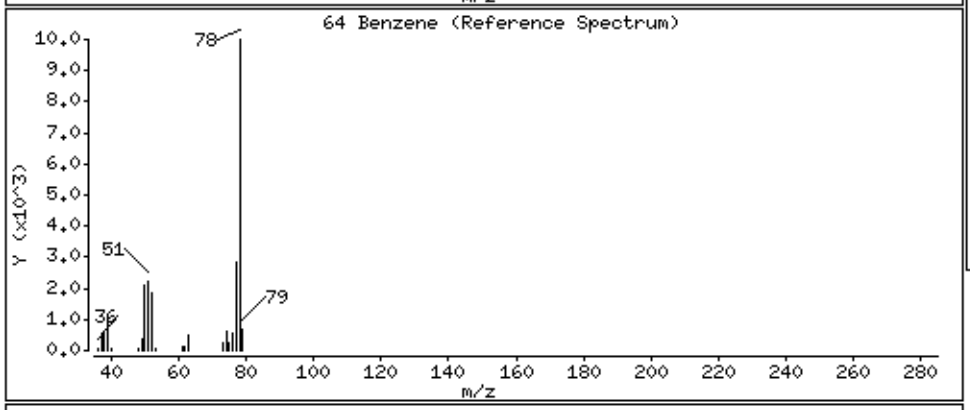
Column diameter: 0.32

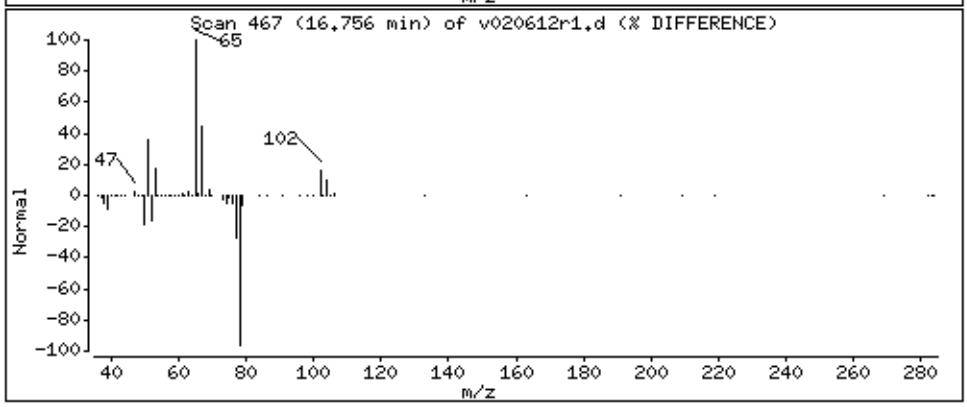
64 Benzene

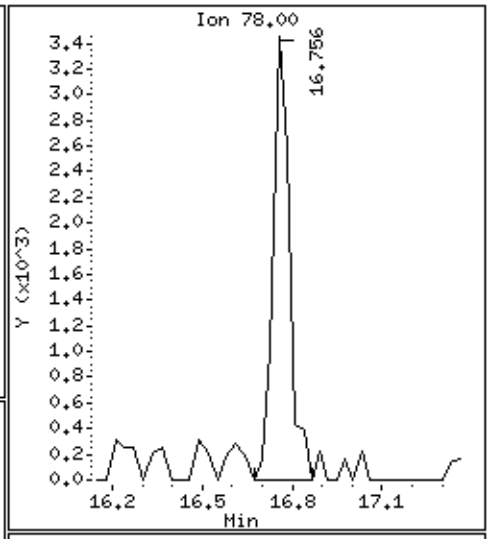
Concentration: 0.1146 PPBV

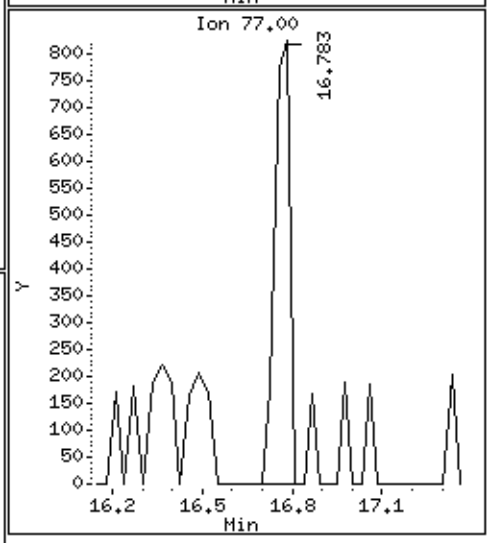












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

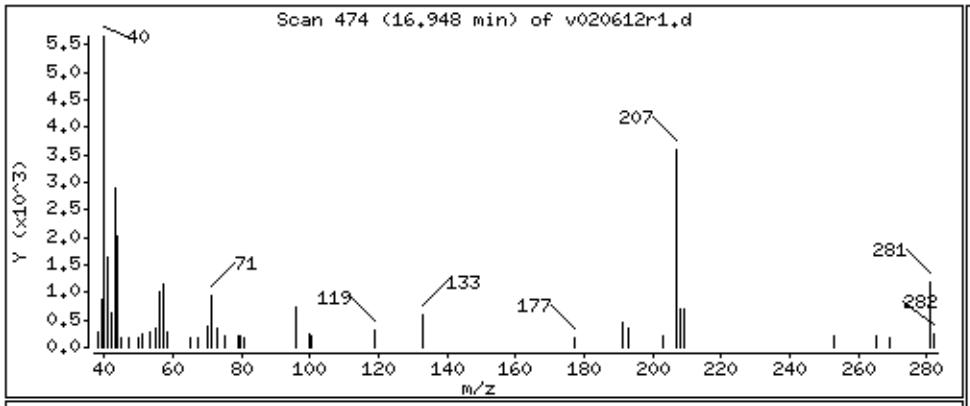
Operator: ef

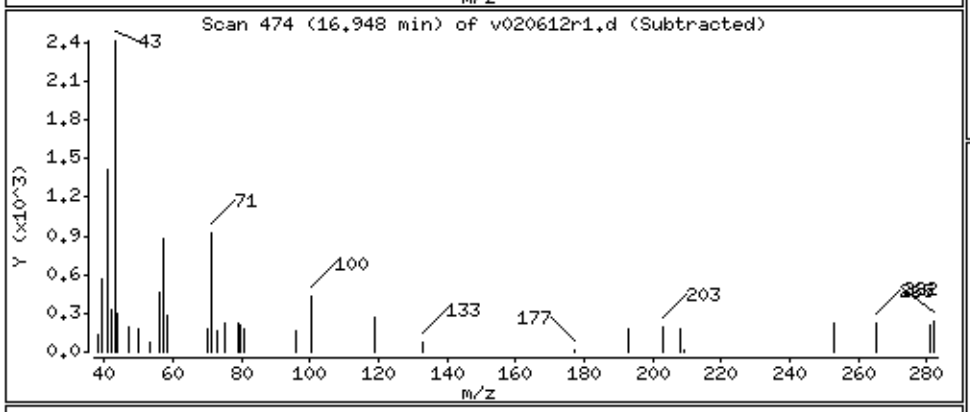
Column phase: RTx-624

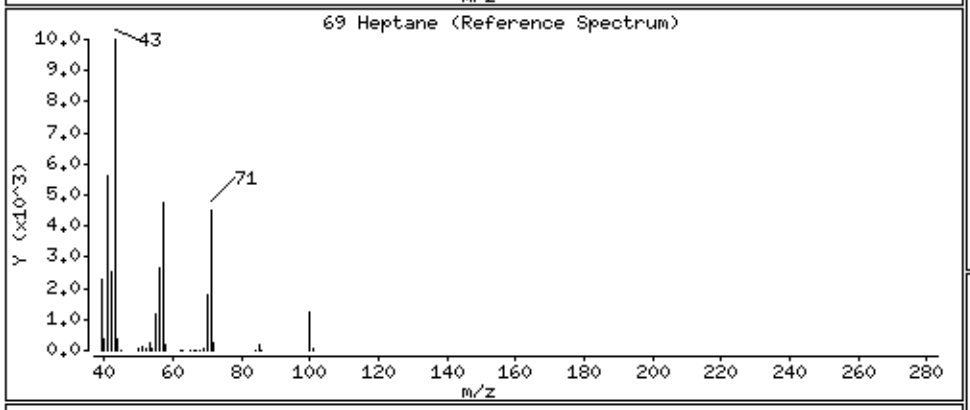
Column diameter: 0.32

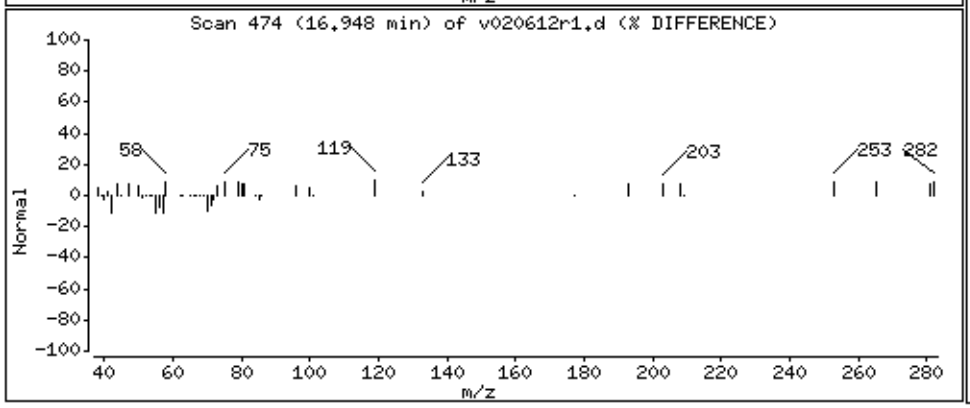
69 Heptane

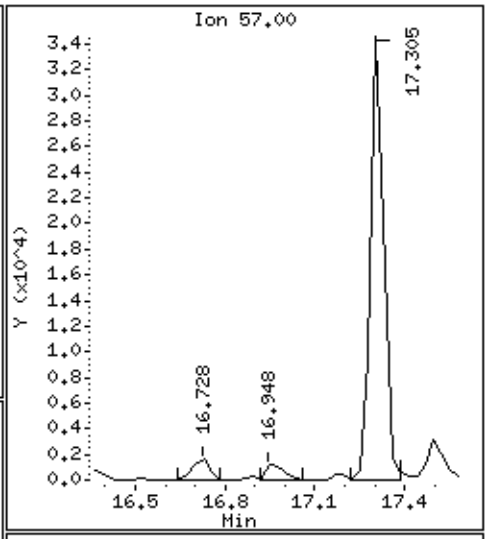
Concentration: 0.08864 PPBV

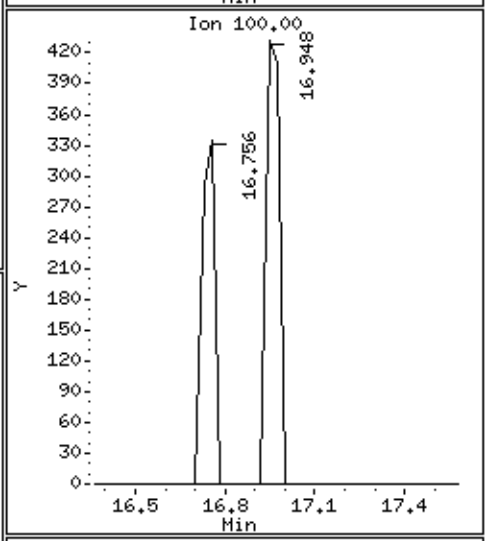


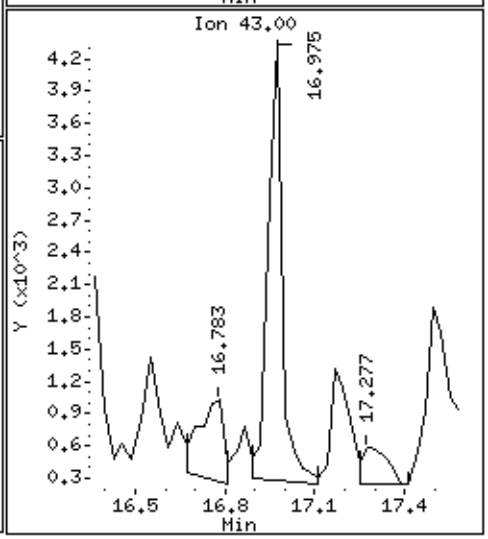












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

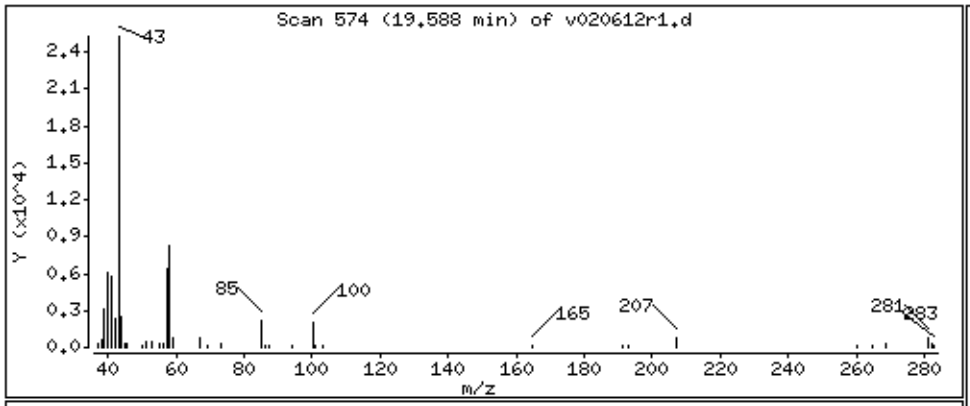
Operator: ef

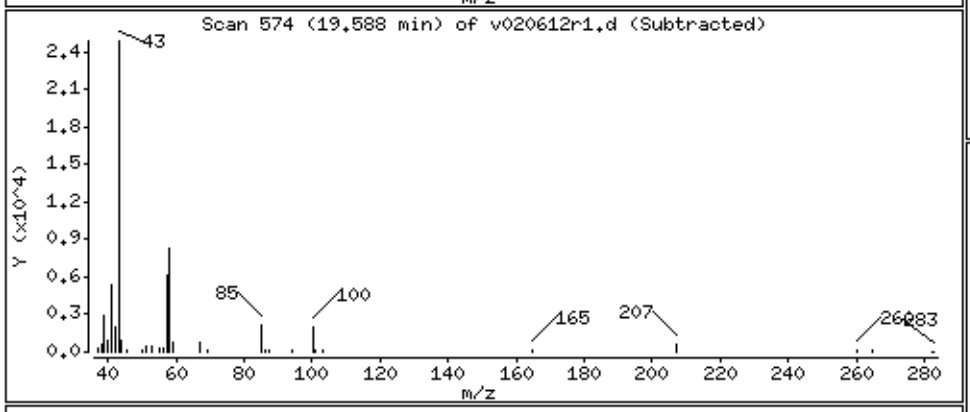
Column phase: RTx-624

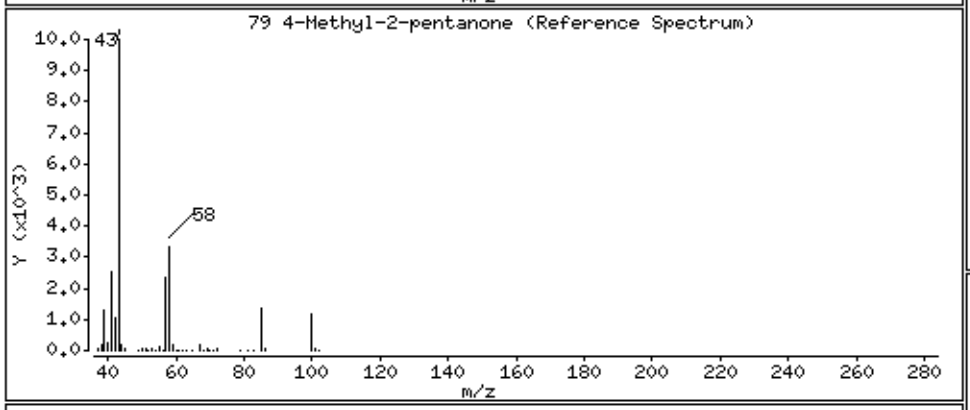
Column diameter: 0.32

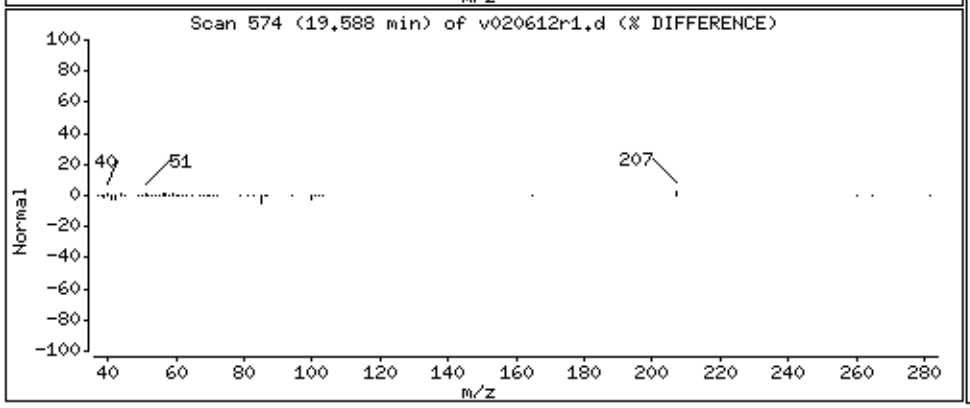
79 4-Methyl-2-pentanone

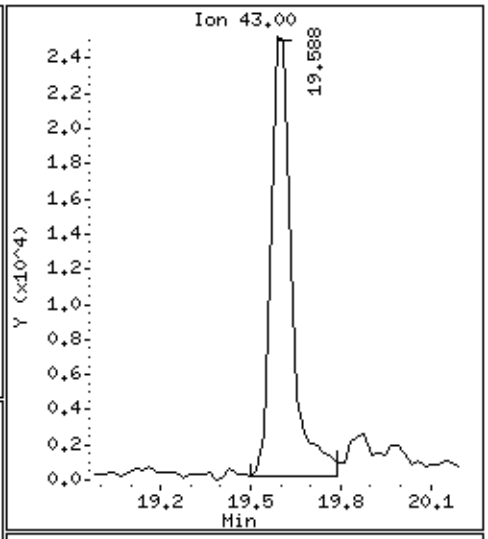
Concentration: 0.7461 PPBV

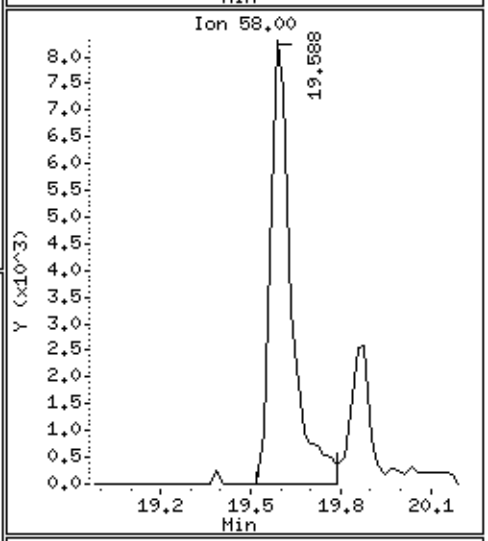


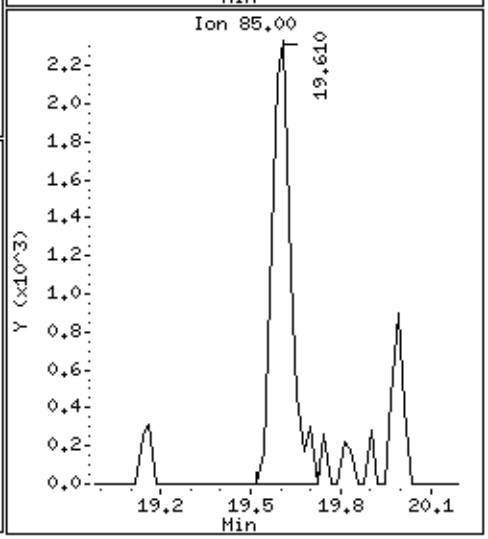












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

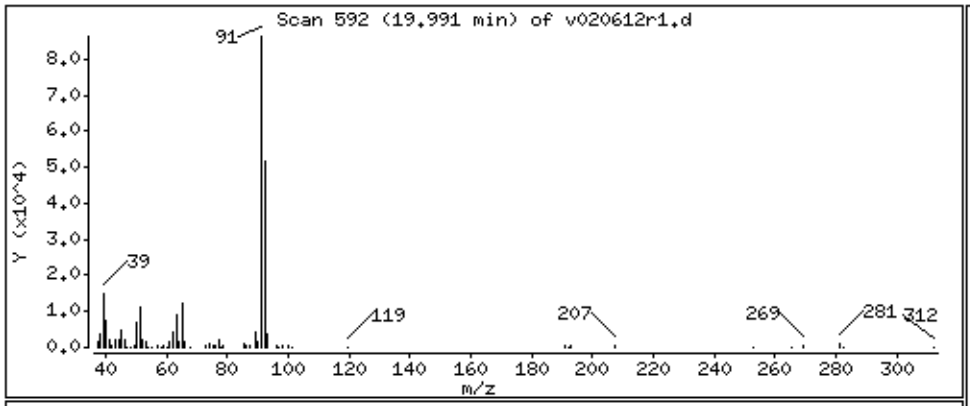
Operator: ef

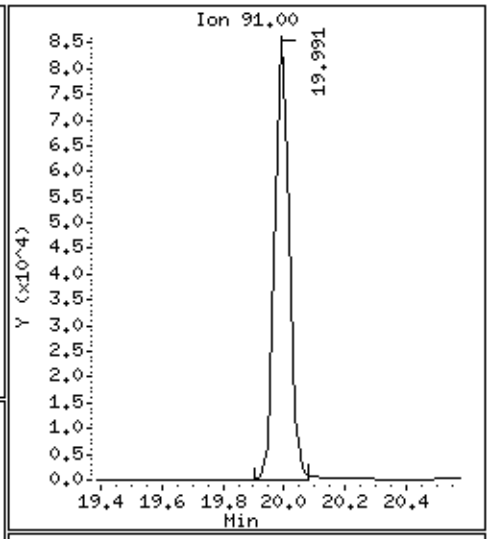
Column phase: RTx-624

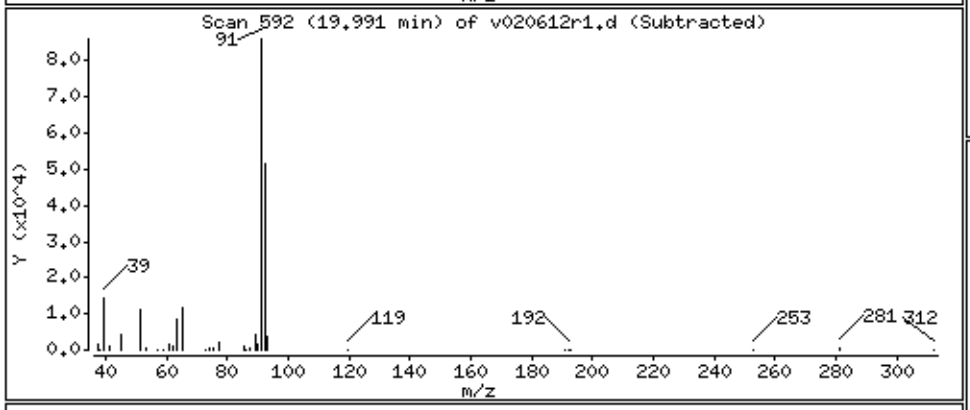
Column diameter: 0.32

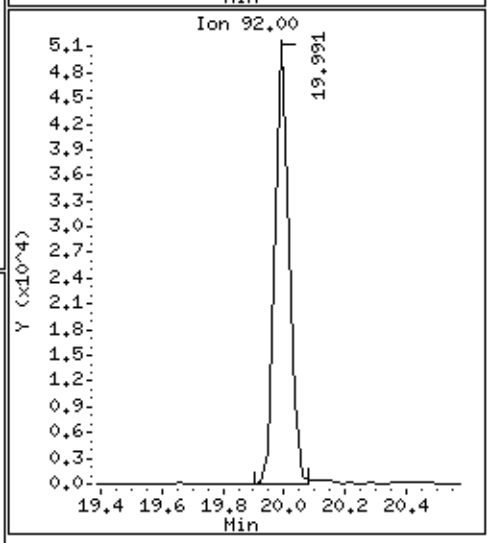
81 Toluene

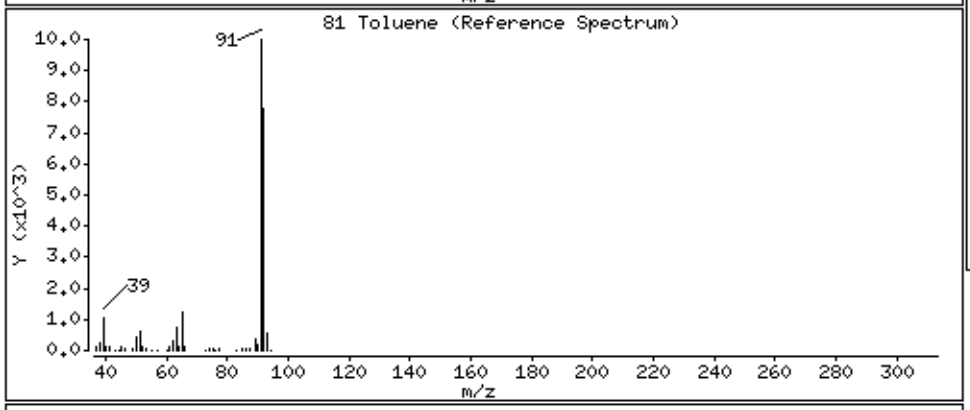
Concentration: 2.188 PPBV

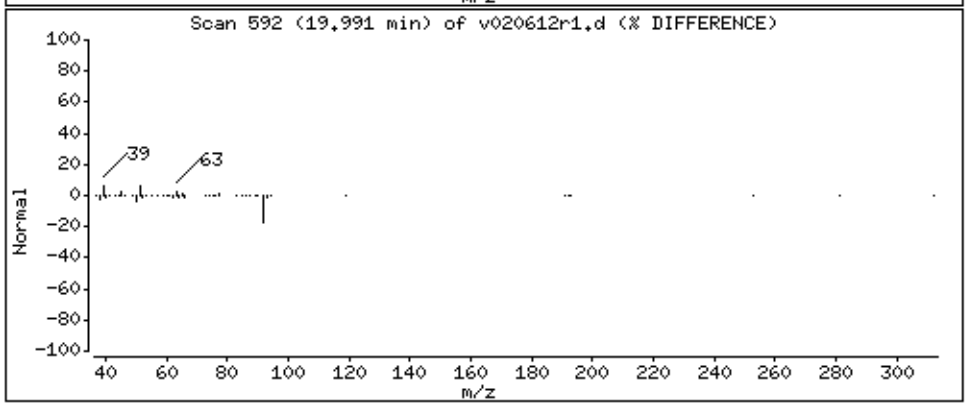












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

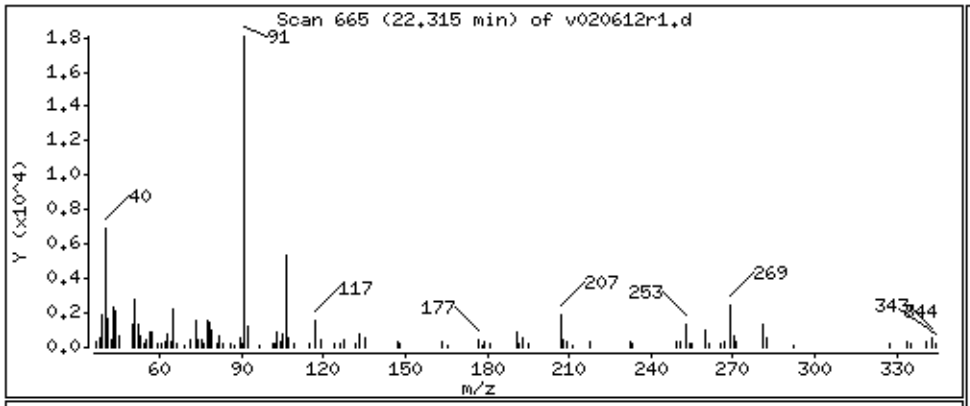
Operator: ef

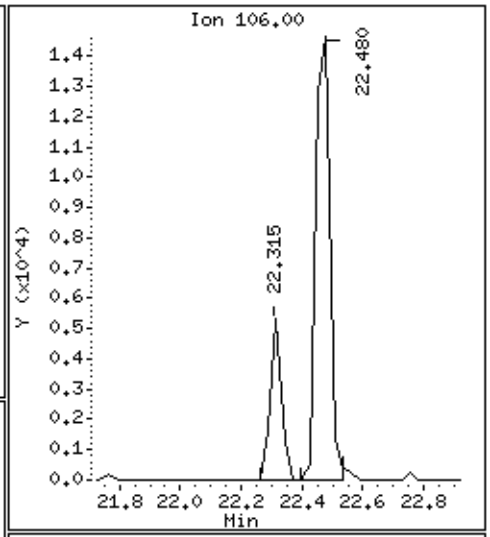
Column phase: RTx-624

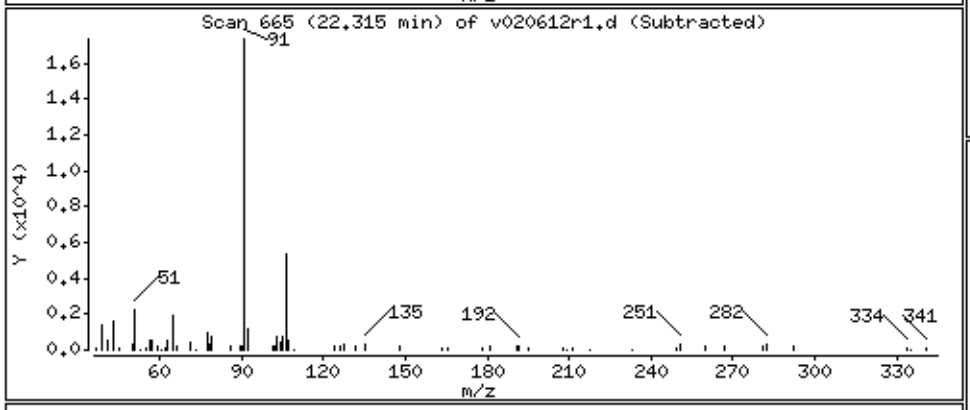
Column diameter: 0.32

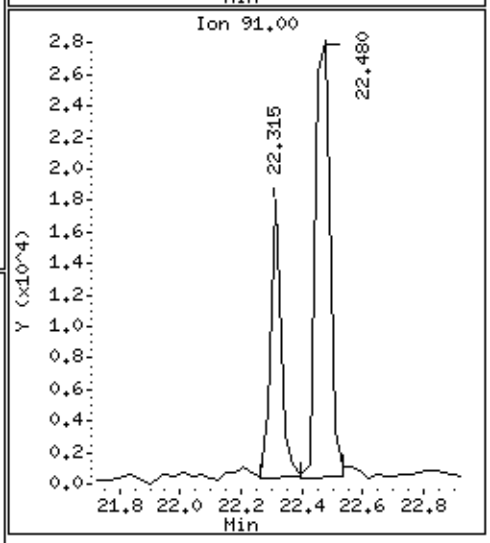
95 Ethyl Benzene

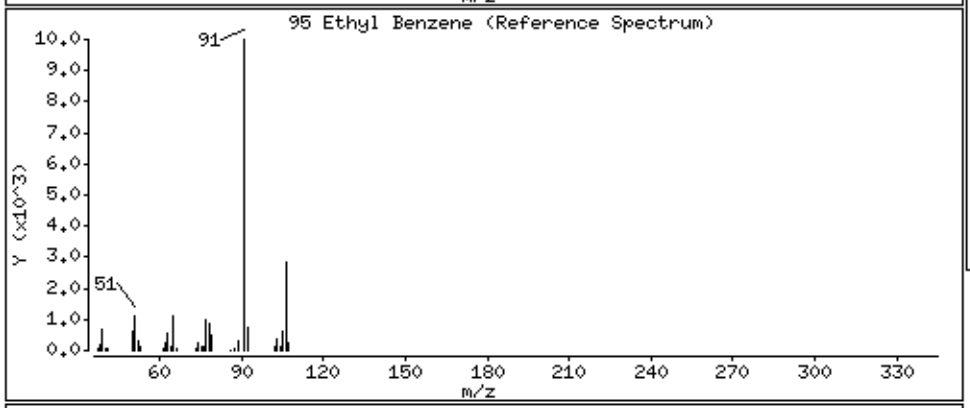
Concentration: 0.2521 PPBV

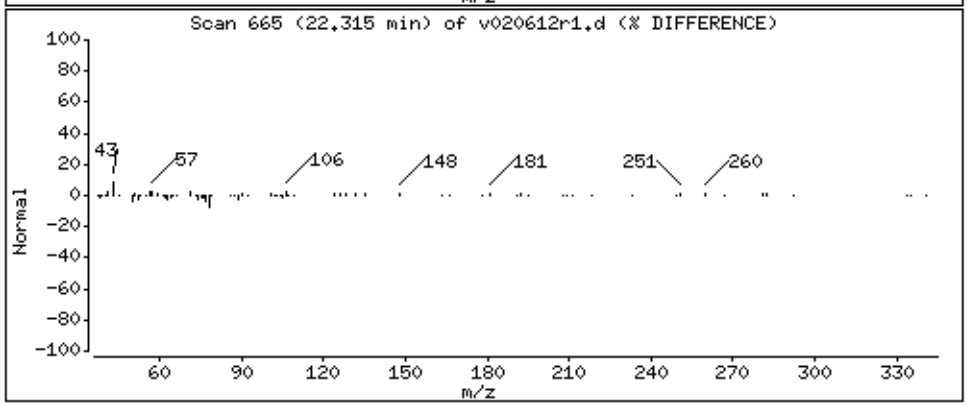












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

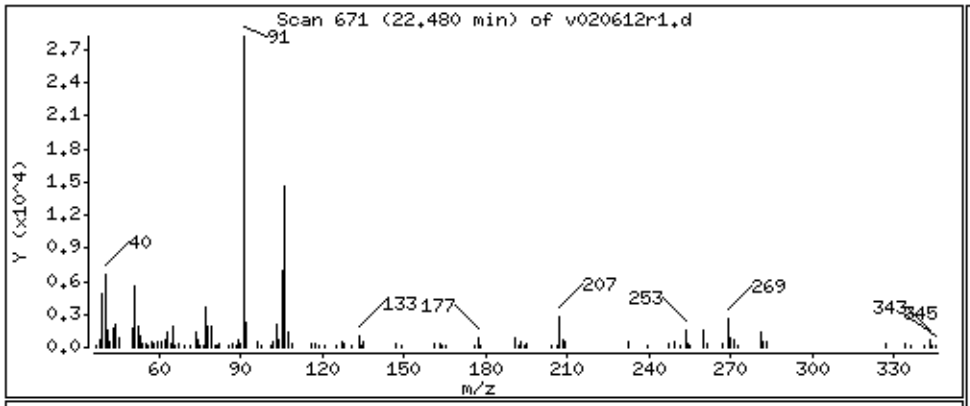
Operator: ef

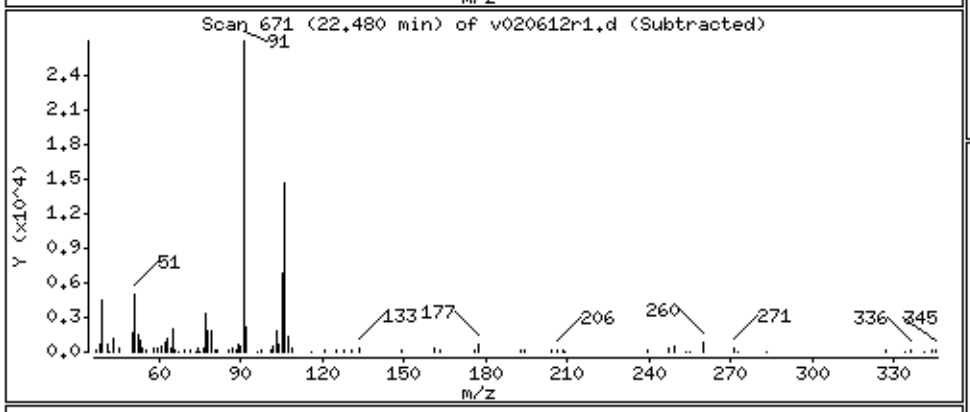
Column phase: RTx-624

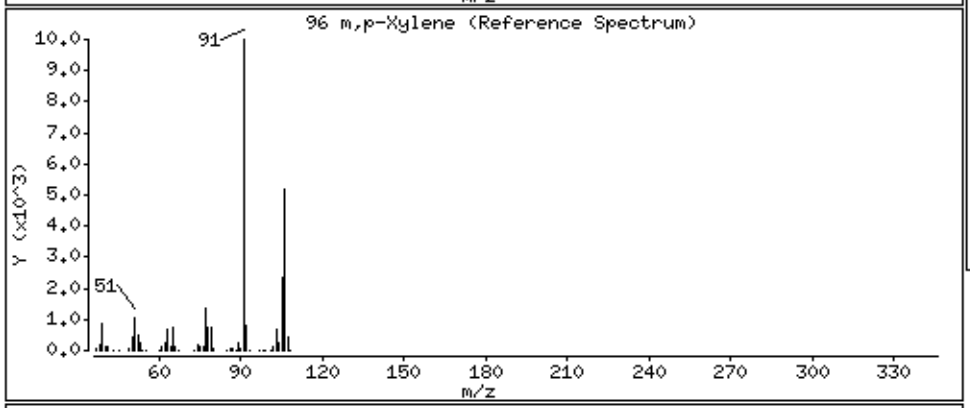
Column diameter: 0.32

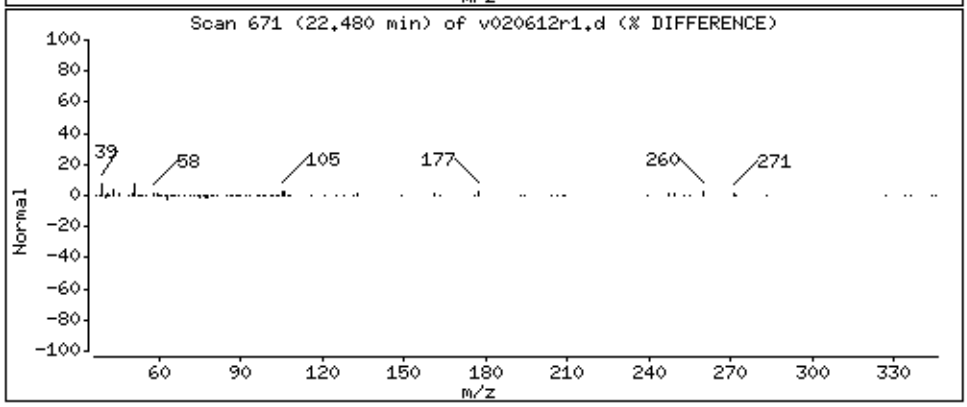
96 m,p-Xylene

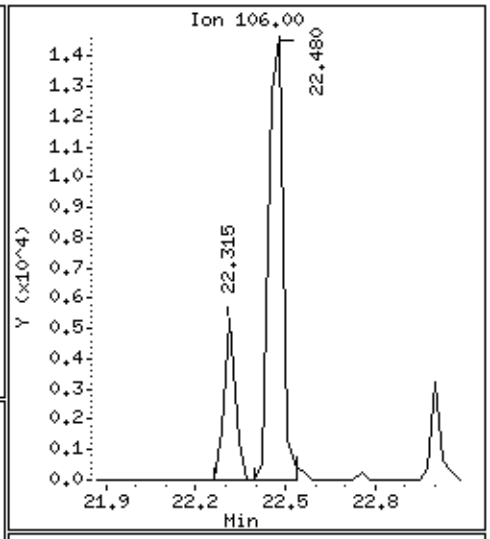
Concentration: 0.8988 PPBV

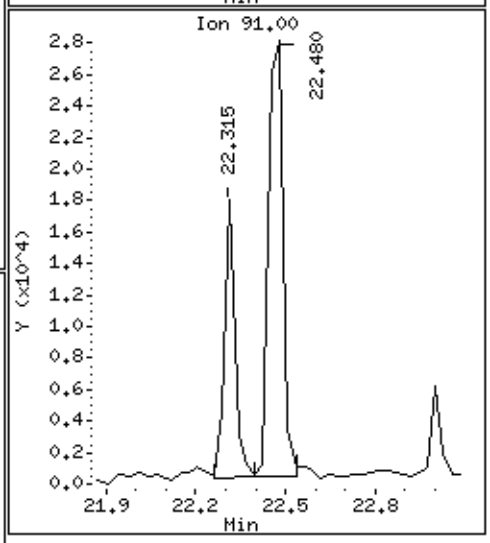












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

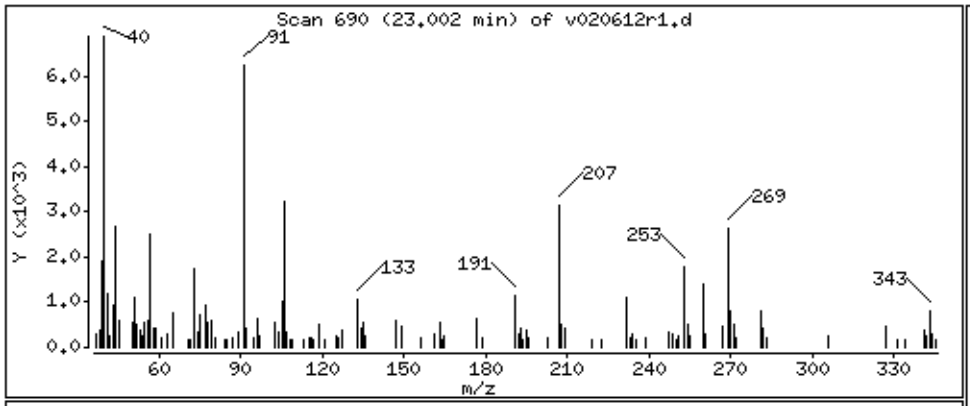
Operator: ef

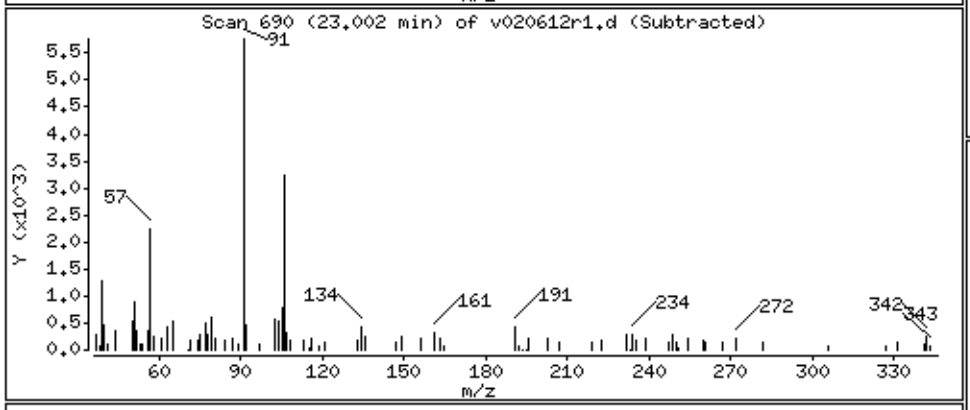
Column phase: RTx-624

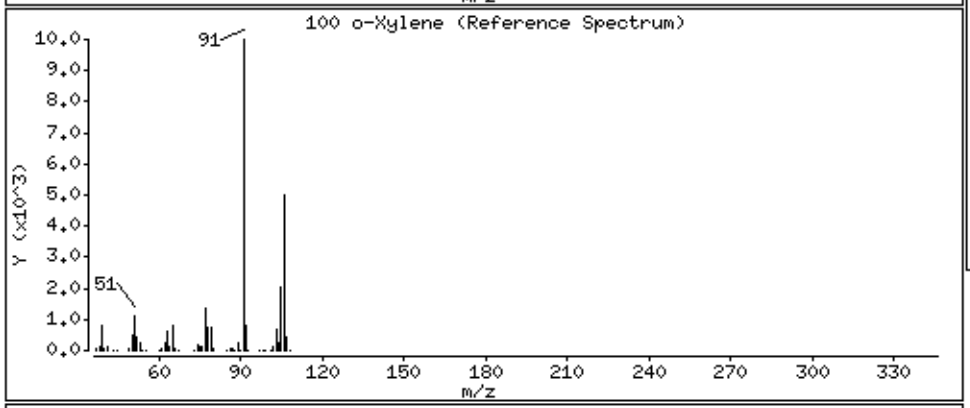
Column diameter: 0.32

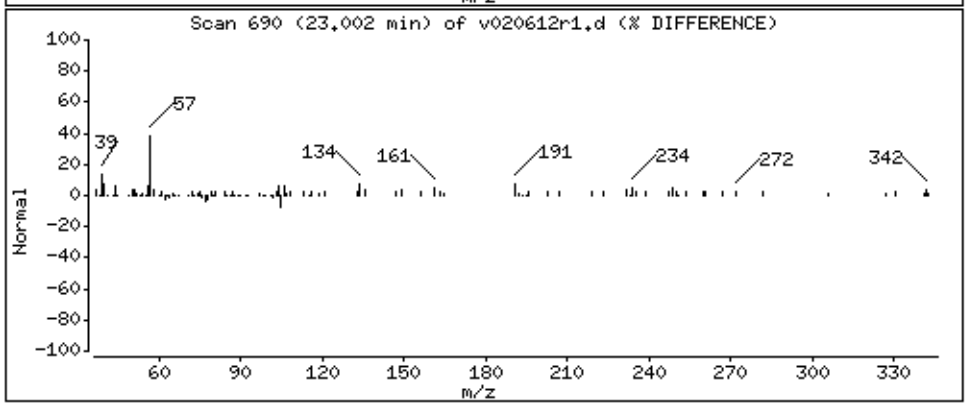
100 o-Xylene

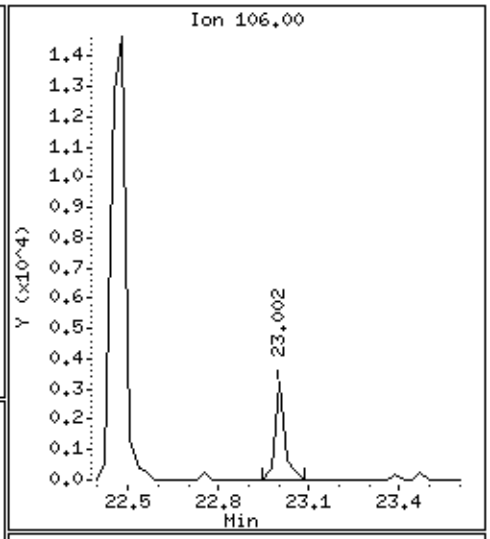
Concentration: 0.1463 PPBV

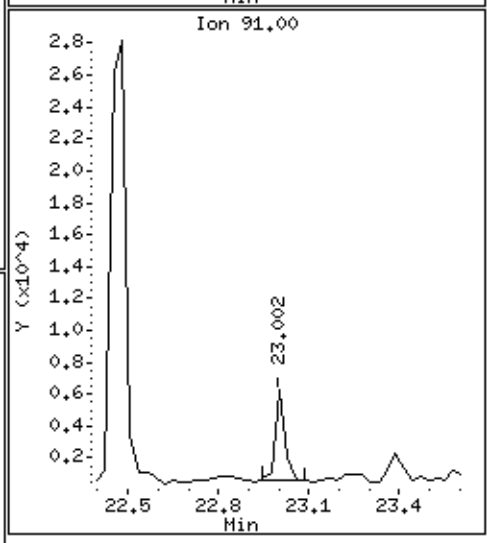












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

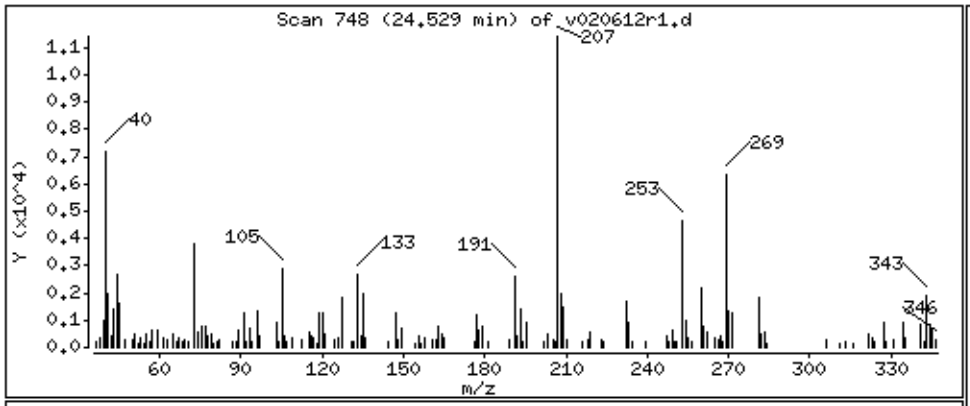
Operator: ef

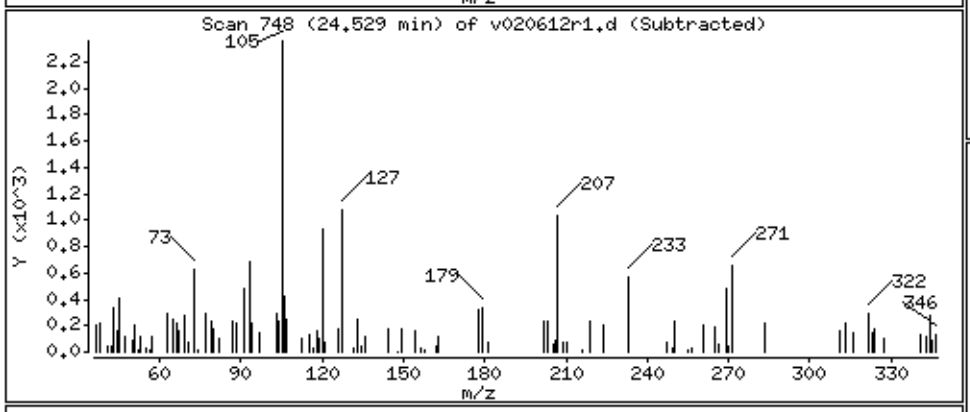
Column phase: RTx-624

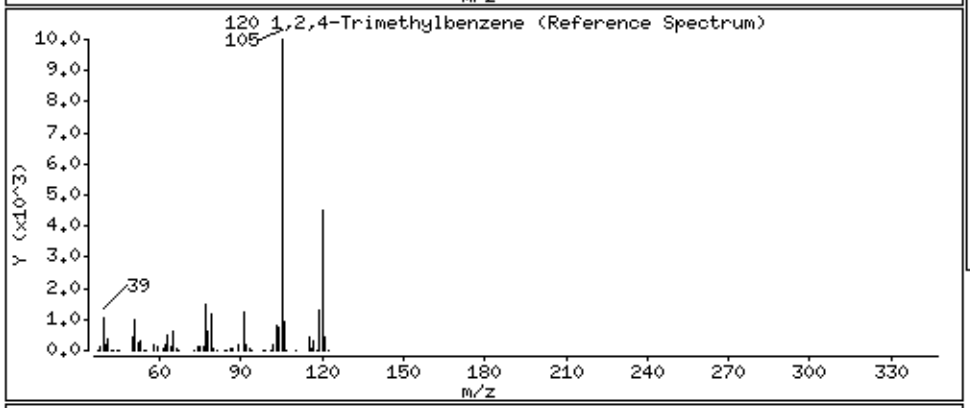
Column diameter: 0.32

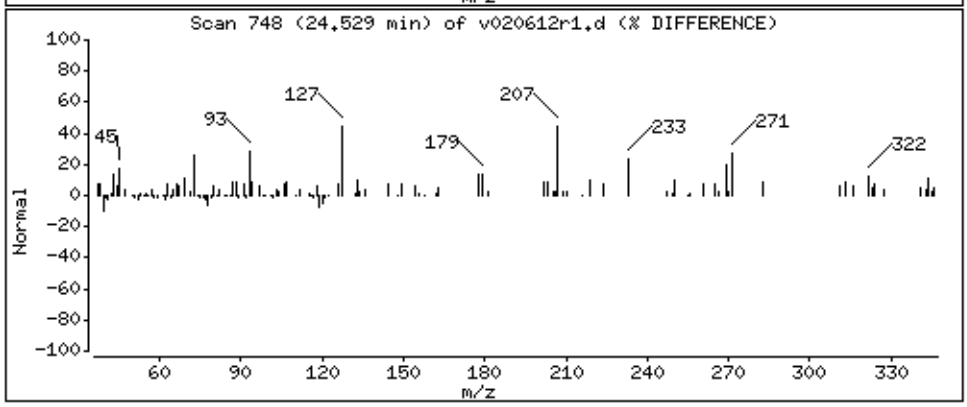
120 1,2,4-Trimethylbenzene

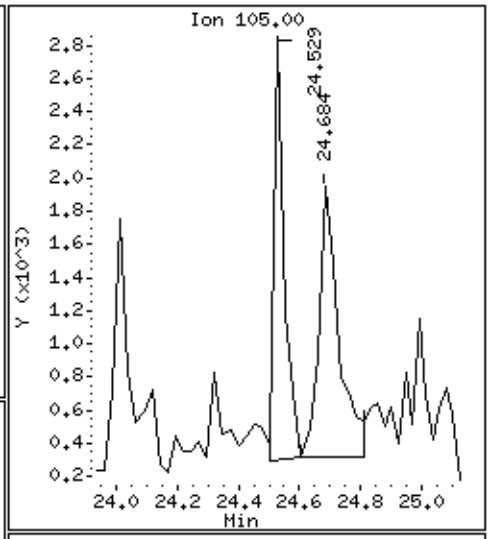
Concentration: 0.06621 PPBV

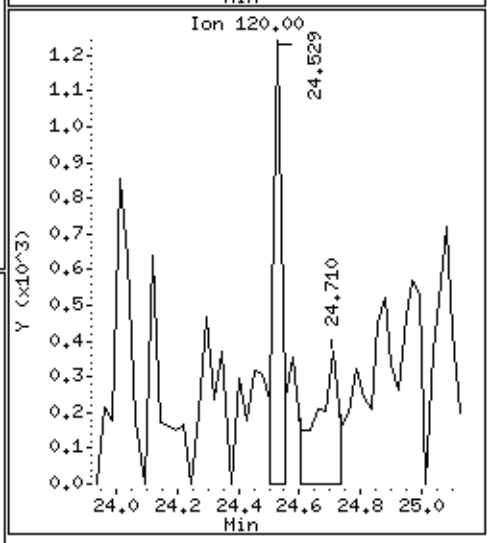












Data File: /chem/msdv.i/06Feb2015.b/v020612r1.d

Date : 06-FEB-2015 14:12

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34222

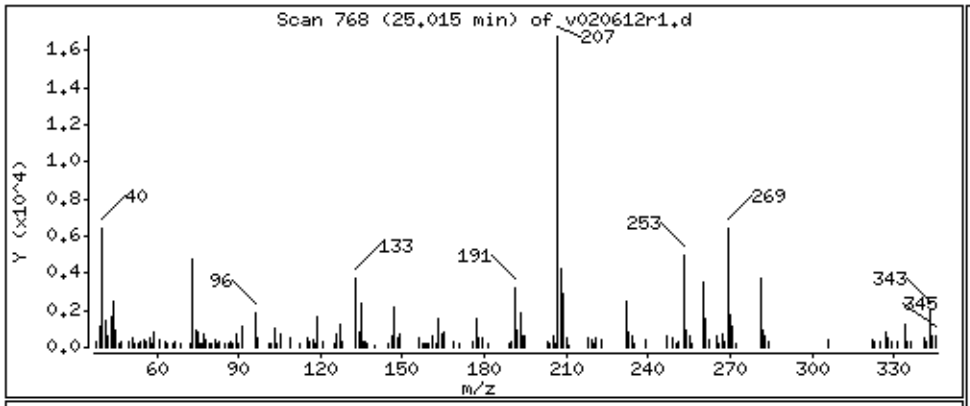
Operator: ef

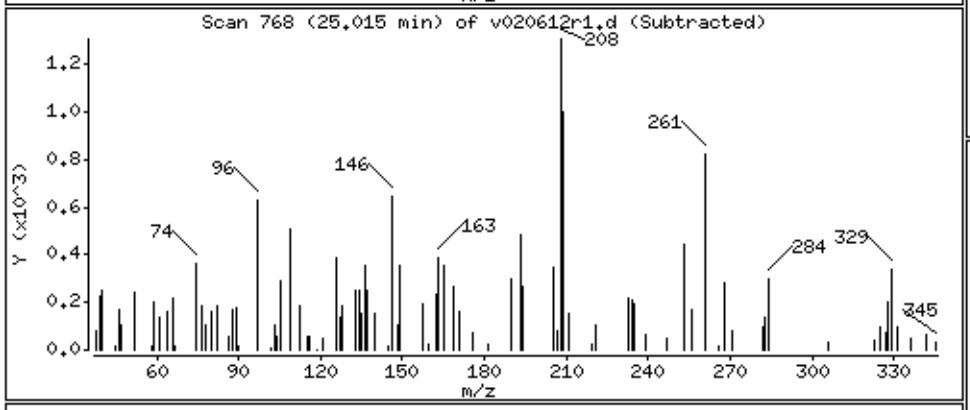
Column phase: RTx-624

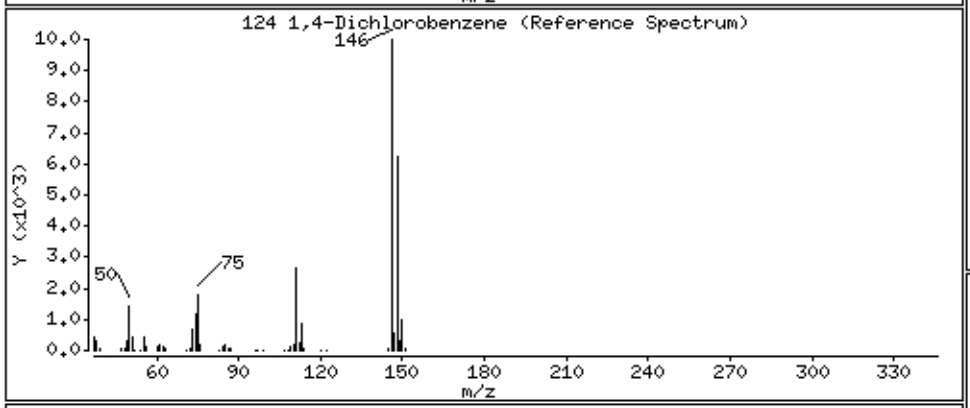
Column diameter: 0.32

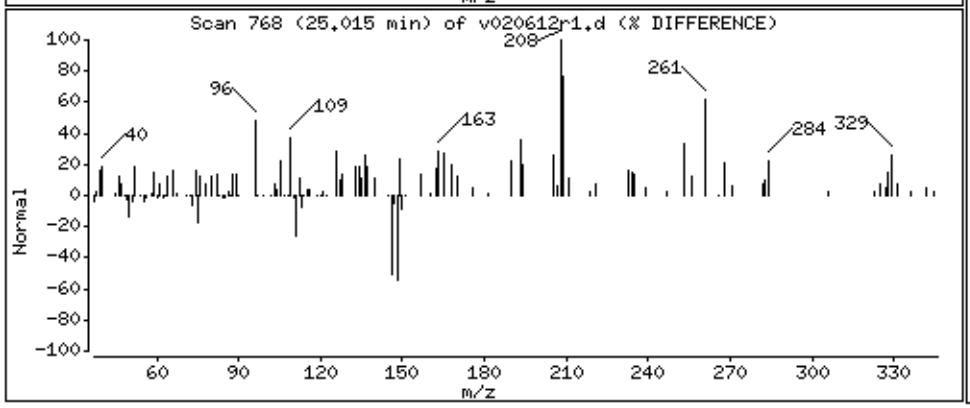
124 1,4-Dichlorobenzene

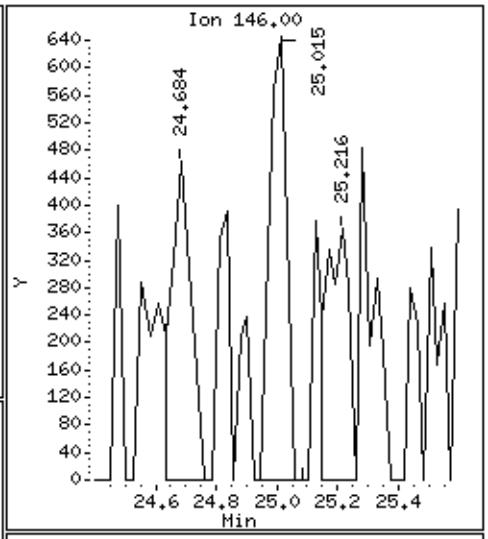
Concentration: 0.03323 PPBV

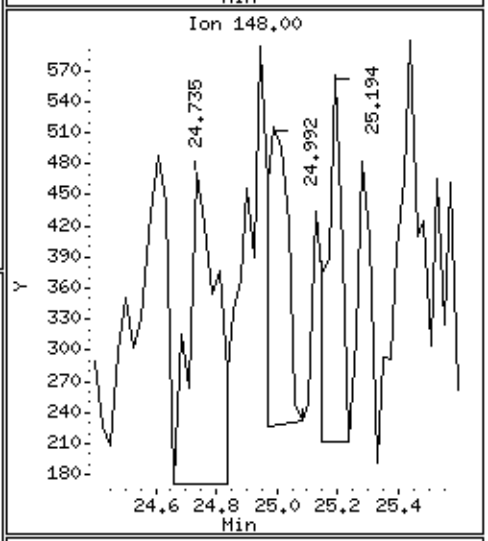


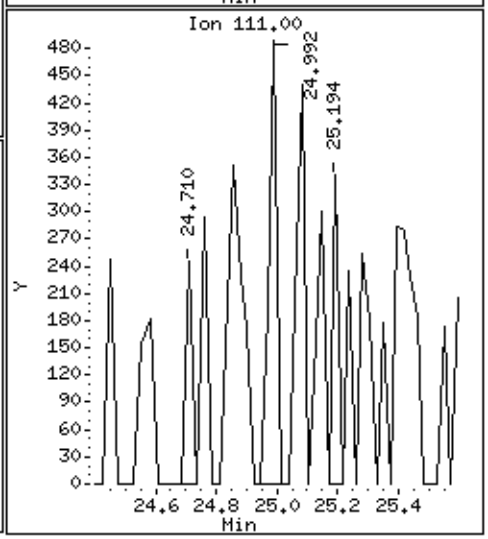












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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B6-AA-1

Lab ID#: 1502053AR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.77	2.1
Chloromethane	0.78	2.6	1.6	5.4
Vinyl Chloride	0.16	0.078 J	0.40	0.20 J
1,3-Butadiene	0.16	0.11 J	0.34	0.25 J
Chloroethane	0.78	0.22 J	2.0	0.58 J
Freon 11	0.16	0.20	0.88	1.1
Ethanol	0.78	240 E	1.5	460 E
Freon 113	0.16	0.063 J	1.2	0.48 J
Acetone	0.78	330 E	1.8	790 E
2-Propanol	0.78	79 E	1.9	190 E
Carbon Disulfide	0.78	3.7	2.4	11
Methylene Chloride	0.31	0.40	1.1	1.4
trans-1,2-Dichloroethene	0.16	0.066 J	0.62	0.26 J
Hexane	0.16	0.66	0.55	2.3
2-Butanone (Methyl Ethyl Ketone)	0.78	35	2.3	100
Tetrahydrofuran	0.78	1.6	2.3	4.7
Chloroform	0.16	0.061 J	0.76	0.30 J
Cyclohexane	0.16	0.18	0.54	0.62
Carbon Tetrachloride	0.16	0.080 J	0.98	0.50 J
Benzene	0.16	0.92	0.50	2.9
Heptane	0.16	0.64	0.64	2.6
Trichloroethene	0.16	0.039 J	0.84	0.21 J
1,4-Dioxane	0.16	0.12 J	0.56	0.45 J
4-Methyl-2-pentanone	0.16	0.56	0.64	2.3
Toluene	0.16	5.5	0.59	21
Tetrachloroethene	0.16	0.054 J	1.0	0.37 J
2-Hexanone	0.78	4.0	3.2	16
Chlorobenzene	0.16	0.070 J	0.72	0.32 J
Ethyl Benzene	0.16	2.8	0.68	12
m,p-Xylene	0.16	1.7	0.68	7.5
o-Xylene	0.16	0.95	0.68	4.1
Styrene	0.16	0.48	0.66	2.0
Cumene	0.16	0.17	0.77	0.84

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

Client Sample ID: B6-AA-1

Lab ID#: 1502053AR1-03A

Propylbenzene	0.16	0.066 J	0.77	0.32 J
4-Ethyltoluene	0.16	0.15 J	0.77	0.73 J
1,2,4-Trimethylbenzene	0.16	0.12 J	0.77	0.60 J
1,3-Dichlorobenzene	0.16	0.076 J	0.94	0.46 J
1,4-Dichlorobenzene	0.16	0.28	0.94	1.7

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Client Sample ID: B6-AA-1

Lab ID#: 1502053AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020611r1**	**Date of Collection:**	**2/3/15 3:35:00 PM**
Dil. Factor:	**1.56**	**Date of Analysis:**	**2/6/15 01:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.77	2.1
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.78	2.6	1.6	5.4
Vinyl Chloride	0.16	0.078 J	0.40	0.20 J
1,3-Butadiene	0.16	0.11 J	0.34	0.25 J
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	0.22 J	2.0	0.58 J
Freon 11	0.16	0.20	0.88	1.1
Ethanol	0.78	240 E	1.5	460 E
Freon 113	0.16	0.063 J	1.2	0.48 J
1,1-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Acetone	0.78	330 E	1.8	790 E
2-Propanol	0.78	79 E	1.9	190 E
Carbon Disulfide	0.78	3.7	2.4	11
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	0.40	1.1	1.4
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
trans-1,2-Dichloroethene	0.16	0.066 J	0.62	0.26 J
Hexane	0.16	0.66	0.55	2.3
1,1-Dichloroethane	0.16	Not Detected	0.63	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	35	2.3	100
cis-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Tetrahydrofuran	0.78	1.6	2.3	4.7
Chloroform	0.16	0.061 J	0.76	0.30 J
1,1,1-Trichloroethane	0.16	Not Detected	0.85	Not Detected
Cyclohexane	0.16	0.18	0.54	0.62
Carbon Tetrachloride	0.16	0.080 J	0.98	0.50 J
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Benzene	0.16	0.92	0.50	2.9
1,2-Dichloroethane	0.16	Not Detected	0.63	Not Detected
Heptane	0.16	0.64	0.64	2.6
Trichloroethene	0.16	0.039 J	0.84	0.21 J
1,2-Dichloropropane	0.16	Not Detected	0.72	Not Detected
1,4-Dioxane	0.16	0.12 J	0.56	0.45 J
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.71	Not Detected
4-Methyl-2-pentanone	0.16	0.56	0.64	2.3
Toluene	0.16	5.5	0.59	21
trans-1,3-Dichloropropene	0.16	Not Detected	0.71	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.85	Not Detected
Tetrachloroethene	0.16	0.054 J	1.0	0.37 J
2-Hexanone	0.78	4.0	3.2	16

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Client Sample ID: B6-AA-1

Lab ID#: 1502053AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020611r1**	**Date of Collection:**	**2/3/15 3:35:00 PM**
Dil. Factor:	**1.56**	**Date of Analysis:**	**2/6/15 01:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	0.070 J	0.72	0.32 J
Ethyl Benzene	0.16	2.8	0.68	12
m,p-Xylene	0.16	1.7	0.68	7.5
o-Xylene	0.16	0.95	0.68	4.1
Styrene	0.16	0.48	0.66	2.0
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	0.17	0.77	0.84
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	0.066 J	0.77	0.32 J
4-Ethyltoluene	0.16	0.15 J	0.77	0.73 J
1,3,5-Trimethylbenzene	0.16	Not Detected	0.77	Not Detected
1,2,4-Trimethylbenzene	0.16	0.12 J	0.77	0.60 J
1,3-Dichlorobenzene	0.16	0.076 J	0.94	0.46 J
1,4-Dichlorobenzene	0.16	0.28	0.94	1.7
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected
Naphthalene	0.78	Not Detected	4.1	Not Detected

J = Estimated value.
E = Exceeds instrument calibration range.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020611r1.d
Lab Smp Id: 1502053Ar1-03A
Inj Date : 06-FEB-2015 13:37
Operator : ef Inst ID: msdv.i
Smp Info : 250mL# 34361
Misc Info : 4.5"Hg - 4.8psi
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 26-Jun-2015 11:38 dbailey Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1
Dil Factor: 1.56000
Integrator: HP RTE Compound Sublist: TO15Nmdl.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	195681	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	151539			0.00- 30.00	77.44
15.934	15.934 (1.000)	49	444894			0.00- 30.00	227.36
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	802167	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	120257			0.00- 30.00	14.99
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	635801	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	350430			0.00- 30.00	55.12
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.756	16.756 (1.052)	65	294226	4.79691	4.797	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	144255			25.13- 85.13	49.03
$ 80 Toluene-d8						CAS #: 2037-26-5	
19.857	19.879 (1.147)	98	750583	4.99734	4.997	80.00- 120.00	100.00
19.812	19.879 (1.145)	70	240314			0.00- 40.74	32.02

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

$  80 Toluene-d8 (continued)
 19.857  19.879 (1.147)   100    490756                    36.73-  96.73    65.38
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    311876 5.23477    5.235  80.00- 120.00   100.00
 23.678  23.704 (1.066)    95    395863                   95.17- 155.17   126.93
 23.704  23.704 (1.067)   176    300686                   64.74- 124.74    96.41
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.278   5.202 (0.331)    85     42152 0.27021   0.4215  80.00- 120.00   100.00
  5.202   5.202 (0.326)    87     13451                    1.73-  61.73    31.91
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.128   7.053 (0.447)    50    168699 1.67531    2.613  80.00- 120.00   100.00
  7.128   7.053 (0.447)    52     51383                    1.57-  61.57    30.46
-------------------------------------------------------------------------------
   10 Vinyl Chloride                                CAS #: 75-01-4
  8.040   8.009 (0.505)    62      3874 0.05005  0.07807  80.00- 120.00   100.00(a)
  8.040   8.009 (0.505)    64      1181                    0.00-  59.13    30.49
-------------------------------------------------------------------------------
   11 1,3-Butadiene                                 CAS #: 106-99-0
  8.288   8.257 (0.520)    54      5473 0.07195   0.1122  80.00- 120.00   100.00(a)
  8.288   8.257 (0.520)    39      5354                   70.79- 130.79    97.83
-------------------------------------------------------------------------------
   17 Chloroethane                                  CAS #: 75-00-3
 10.365  10.341 (0.650)    64      4762 0.14154   0.2208  80.00- 120.00   100.00(a)
 10.365  10.341 (0.650)    66      1162                    0.00-  59.36    24.40
-------------------------------------------------------------------------------
   20 Trichlorofluoromethane/Fr11                   CAS #: 75-69-4
 11.160  11.184 (0.700)   101     21678 0.13037   0.2034  80.00- 120.00   100.00
 11.184  11.184 (0.702)   103     14460                   34.40-  94.40    66.70
-------------------------------------------------------------------------------
   24 Ethanol                                       CAS #: 64-17-5
 12.102  12.102 (0.760)    45   5618841 157.157   245.16  80.00- 120.00   100.00(A)
 12.102  12.102 (0.760)    46   2198047                    9.93-  69.93    39.12
 12.102  12.102 (0.760)    43   1102332                    0.00-  50.31    19.62
-------------------------------------------------------------------------------
   28 Freon 113                                     CAS #: 76-13-1
 12.569  12.569 (0.789)   151      4797 0.04031  0.06288  80.00- 120.00   100.00(a)
 12.569  12.569 (0.789)   153      2303                   33.38-  93.38    48.01
 12.569  12.569 (0.789)   101      6455                   85.19- 145.19   134.56
-------------------------------------------------------------------------------
   31 Acetone                                       CAS #: 67-64-1
 12.816  12.816 (0.804)    58   9673699 214.099   333.99  80.00- 120.00   100.00(A)
 12.816  12.816 (0.804)    43  28794773                  326.03- 386.03   297.66
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	391167	2.35970	3.681	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
13.200	13.173 (0.828)	45	9013362	50.4009	78.625	80.00- 120.00	100.00(A)
13.200	13.173 (0.828)	43	1544830			0.00- 47.97	17.14
13.200	13.173 (0.828)	59	273578			0.00- 33.25	3.04
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	14193	0.25438	0.3968	80.00- 120.00	100.00
13.667	13.640 (0.858)	49	32520			198.57- 258.57	229.13
13.640	13.640 (0.856)	51	10673			41.48- 101.48	75.20
40 trans-1,2-Dichloroethene					CAS #: 156-60-5		
14.052	14.052 (0.882)	98	1746	0.04245	0.06621	80.00- 120.00	100.00(a)
14.052	14.052 (0.882)	61	3472			272.66- 332.66	198.85
14.052	14.052 (0.882)	96	5139			128.53- 188.53	294.33
43 Hexane					CAS #: 110-54-3		
14.381	14.381 (0.903)	57	66431	0.42101	0.6568	80.00- 120.00	100.00
14.409	14.381 (0.904)	43	116010			41.32- 101.32	174.63
14.381	14.381 (0.903)	86	6407			0.00- 40.13	9.64
51 2-Butanone					CAS #: 78-93-3		
15.572	15.572 (0.977)	72	687332	22.4398	35.006	80.00- 120.00	100.00
15.592	15.572 (0.979)	43	11276995			687.17- 747.17	1640.69
15.572	15.572 (0.977)	57	351982			23.39- 83.39	51.21
53 Tetrahydrofuran					CAS #: 109-99-9		
15.934	15.934 (1.000)	42	135925	1.01685	1.586	80.00- 120.00	100.00
15.934	15.934 (1.000)	71	27056			0.00- 51.83	19.91
15.934	15.934 (1.000)	72	25982			0.00- 54.16	19.11
55 Chloroform					CAS #: 67-66-3		
15.995	15.995 (1.004)	83	5315	0.03899	0.06082	80.00- 120.00	100.00(a)
15.995	15.995 (1.004)	85	2261			35.10- 95.10	42.54
57 Cyclohexane					CAS #: 110-82-7		
16.273	16.242 (1.021)	84	10630	0.11474	0.1790	80.00- 120.00	100.00
16.242	16.242 (1.019)	56	34739			160.85- 220.85	326.80
16.242	16.242 (1.019)	41	24911			75.49- 135.49	234.35
59 Carbon Tetrachloride					CAS #: 56-23-5		
16.427	16.458 (1.031)	119	7094	0.05117	0.07982	80.00- 120.00	100.00(a)
16.458	16.458 (1.033)	117	5958			67.96- 127.96	83.99

Sum of Peak Concentrations = 0.07982

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
64 Benzene					CAS #: 71-43-2		
16.756	16.756 (0.968)	78	117464	0.58985	0.9202	80.00- 120.00	100.00
16.756	16.756 (0.968)	77	29403			0.00- 53.39	25.03
69 Heptane					CAS #: 142-82-5		
16.975	16.975 (0.981)	57	38490	0.40822	0.6368	80.00- 120.00	100.00
16.975	16.975 (0.981)	100	6514			0.00- 51.16	16.92
16.975	16.975 (0.981)	43	81982			180.62- 240.62	213.00
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	2543	0.02502	0.03903	80.00- 120.00	100.00(a)
17.717	17.717 (1.024)	95	3255			62.98- 122.98	128.00
17.717	17.717 (1.024)	97	1650			29.44- 89.44	64.88
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	4572	0.08033	0.1253	80.00- 120.00	100.00(a)
18.293	18.266 (1.057)	58	13253			74.73- 134.73	289.87
18.183	18.266 (1.051)	57	715860			4.83- 64.83	15657.48
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	100423	0.36039	0.5622	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	30163			3.17- 63.17	30.04
19.588	19.588 (1.132)	85	8783			0.00- 40.09	8.75
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	795770	3.50685	5.471	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	468012			28.34- 88.34	58.81
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	4511	0.03463	0.05402	80.00- 120.00	100.00(a)
20.901	20.901 (0.941)	129	3346			46.61- 106.61	74.17
20.901	20.901 (0.941)	131	4597			46.38- 106.38	101.91
87 2-Hexanone					CAS #: 591-78-6		
21.045	21.045 (0.948)	58	289713	2.56767	4.006	80.00- 120.00	100.00
21.045	21.045 (0.948)	43	670734			184.27- 244.27	231.52
21.045	21.045 (0.948)	100	37707			0.00- 44.17	13.02
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	8856	0.04458	0.06954	80.00- 120.00	100.00(a)
22.233	22.233 (1.001)	114	4526			1.75- 61.75	51.11
22.205	22.233 (1.000)	77	12240			24.73- 84.73	138.21
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	167558	1.78491	2.784	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	492741			260.31- 320.31	294.07

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
96 m,p-Xylene						CAS #: 108-38-3	
22.452	22.480 (1.011)	106	105255	1.11012	1.732	80.00- 120.00	100.00
22.452	22.480 (1.011)	91	199893			157.23- 217.23	189.91
100 o-Xylene						CAS #: 95-47-6	
23.002	23.002 (1.036)	106	52977	0.60779	0.9482	80.00- 120.00	100.00
23.002	23.002 (1.036)	91	98925			167.76- 227.76	186.73
101 Styrene						CAS #: 100-42-5	
23.029	23.029 (1.037)	104	39660	0.30513	0.4760	80.00- 120.00	100.00
23.029	23.029 (1.037)	78	26770			17.96- 77.96	67.50
103 Cumene						CAS #: 98-82-8	
23.413	23.441 (1.054)	105	26916	0.10922	0.1704	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	7447			0.00- 59.93	27.67
111 Propylbenzene						CAS #: 103-65-1	
23.910	23.910 (1.077)	91	9662	0.04209	0.06566	80.00- 120.00	100.00(a)
23.910	23.910 (1.077)	120	2617			0.00- 56.93	27.09
113 4-Ethyltoluene						CAS #: 622-96-8	
24.013	24.039 (1.081)	105	16497	0.09480	0.1479	80.00- 120.00	100.00(a)
24.013	24.039 (1.081)	120	6112			3.10- 63.10	37.05
120 1,2,4-Trimethylbenzene						CAS #: 95-63-6	
24.529	24.529 (1.105)	105	12557	0.07848	0.1224	80.00- 120.00	100.00(a)
24.529	24.529 (1.105)	120	3152			0.00- 30.00	25.10
122 1,3-Dichlorobenzene						CAS #: 541-73-1	
24.902	24.902 (1.121)	146	5881	0.04862	0.07585	80.00- 120.00	100.00(a)
24.902	24.902 (1.121)	148	3275			32.42- 92.42	55.69
24.925	24.902 (1.122)	111	7658			8.90- 68.90	130.22
124 1,4-Dichlorobenzene						CAS #: 106-46-7	
24.992	24.992 (1.125)	146	22782	0.17777	0.2773	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	14899			34.01- 94.01	65.40
24.992	24.992 (1.125)	111	7967			8.58- 68.58	34.97

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020611r1.d
Lab Smp Id: 1502053Ar1-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 4.5"Hg - 4.8psi

Calibration Date: 06-FEB-2015
Calibration Time: 06:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	195681	-7.26
71 1,4-Difluorobenze	830109	498065	1162153	802167	-3.37
92 Chlorobenzene-d5	628752	377251	880253	635801	1.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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: 26-Jun-2015 11:39

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 06Feb2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1502053Ar1-03A
Level: LOW
Operator: ef
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 4.5"Hg - 4.8psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	4.797	95.94	70-130
$ 80 Toluene-d8	5.000	4.997	99.95	70-130
$ 106 Bromofluorobenzene	5.000	5.235	104.70	70-130

Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

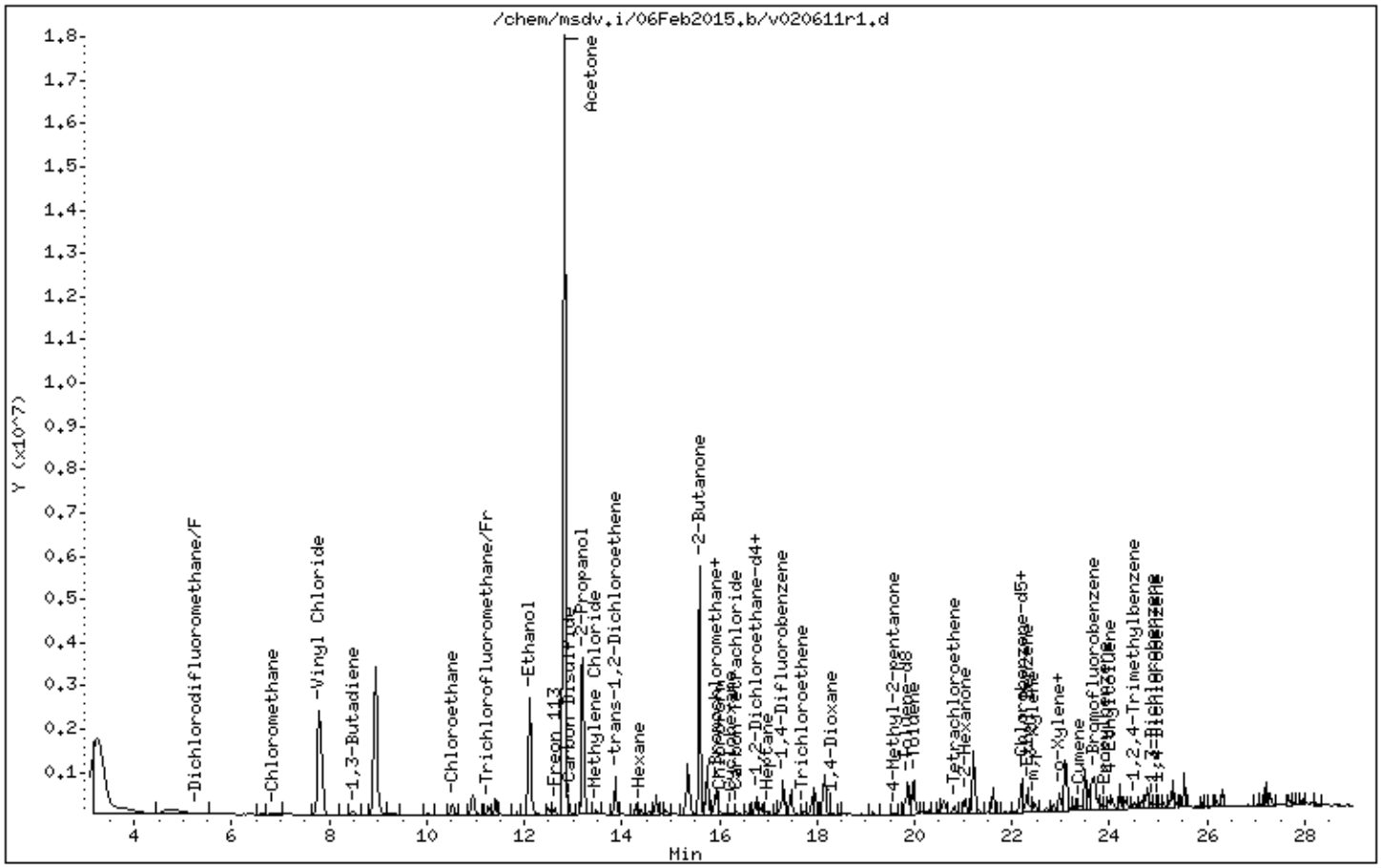
Instrument: msdv.i

Sample Info: 250mL# 34361

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

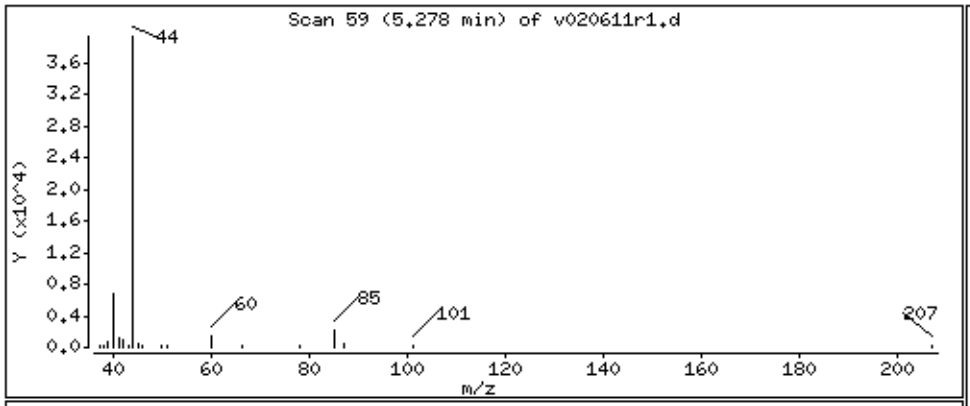
Operator: ef

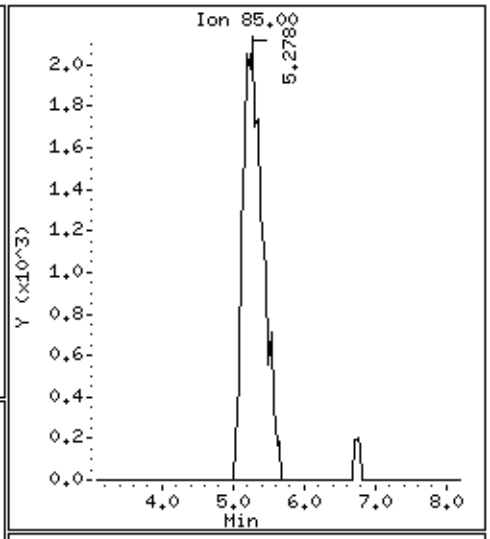
Column phase: RTx-624

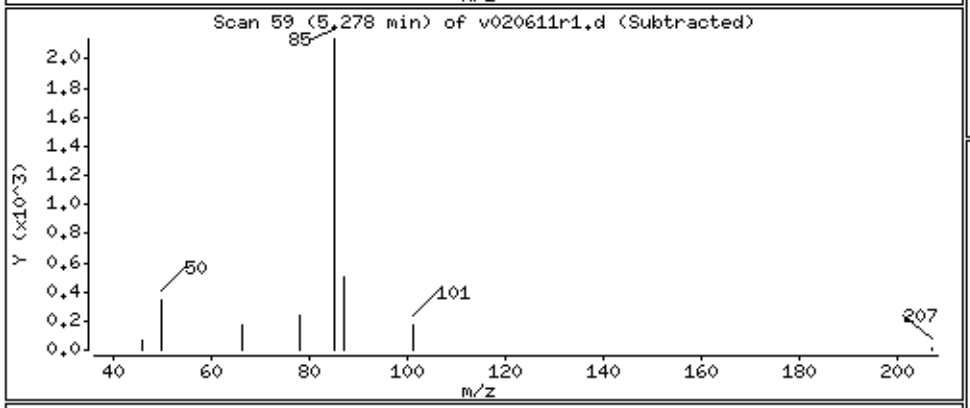
Column diameter: 0.32

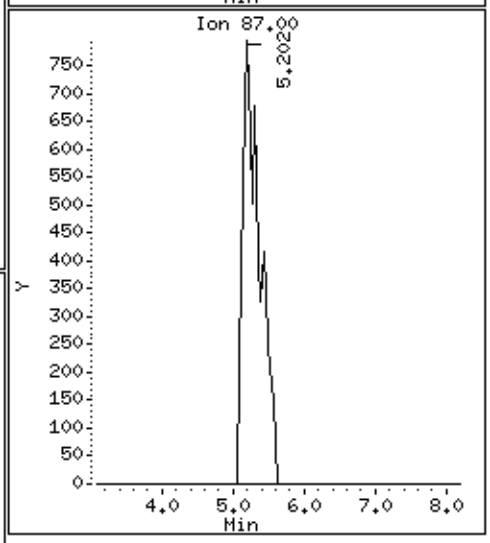
4 Dichlorodifluoromethane/Fr12

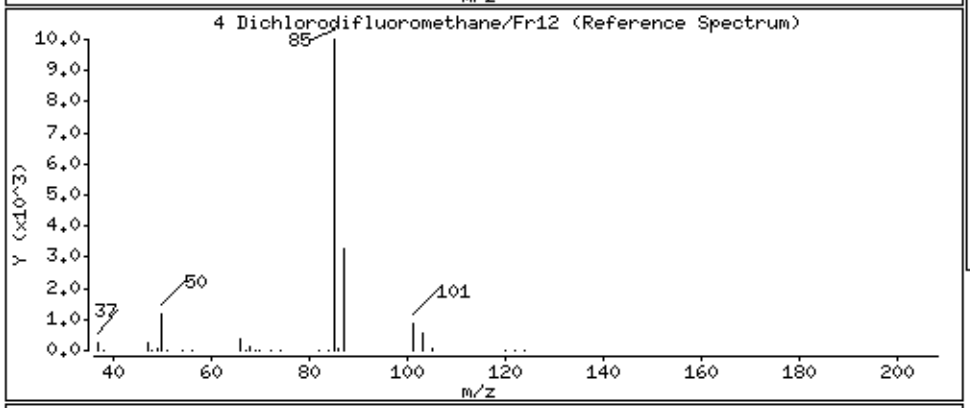
Concentration: 0.4215 PPBV

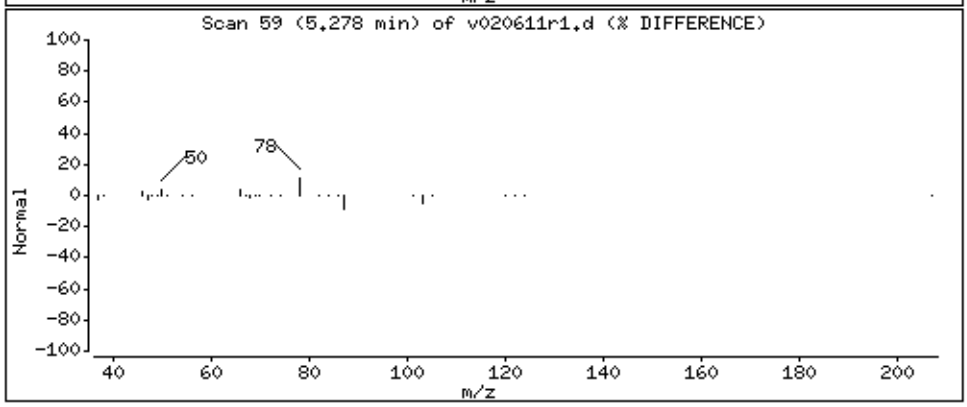












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

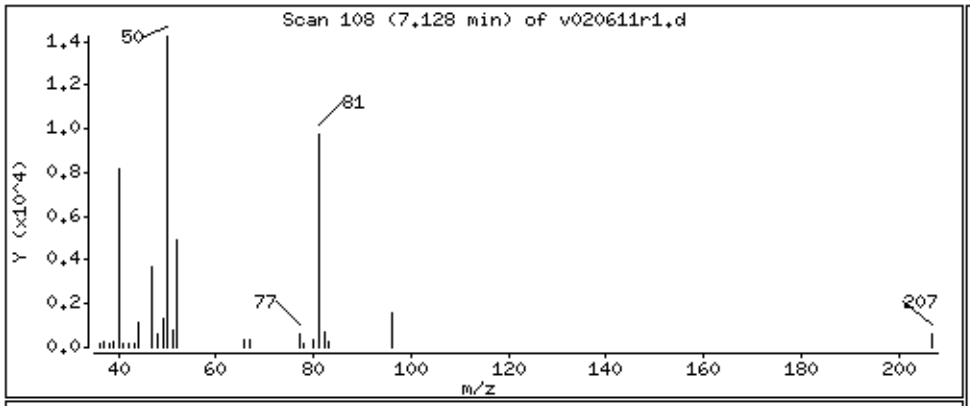
Operator: ef

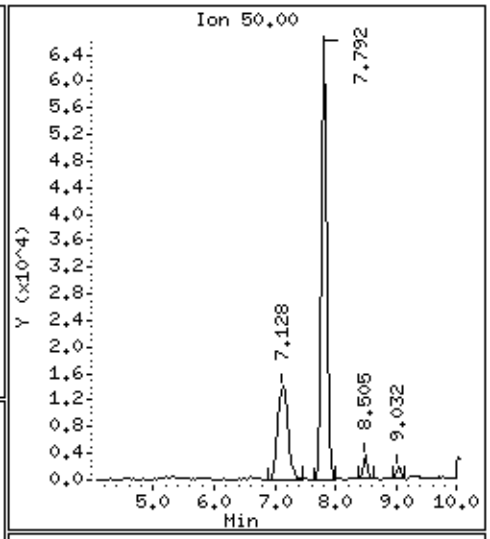
Column phase: RTx-624

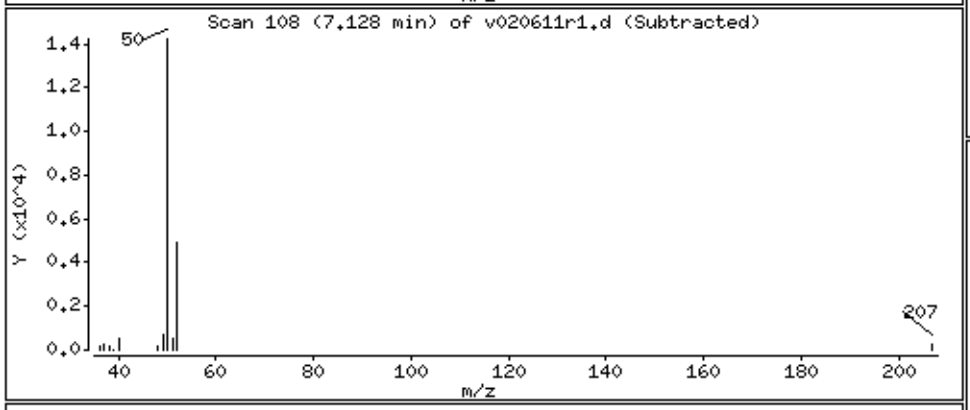
Column diameter: 0.32

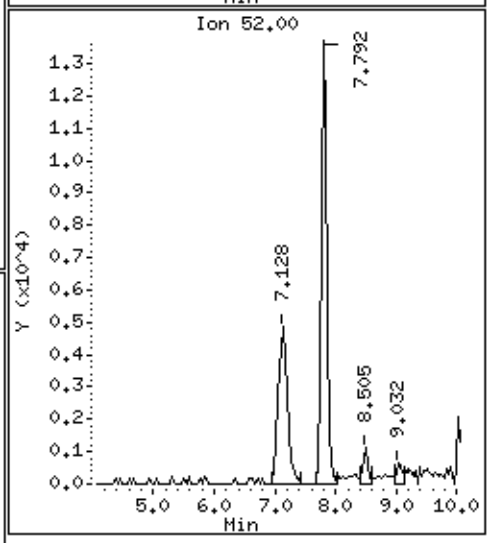
8 Chloromethane

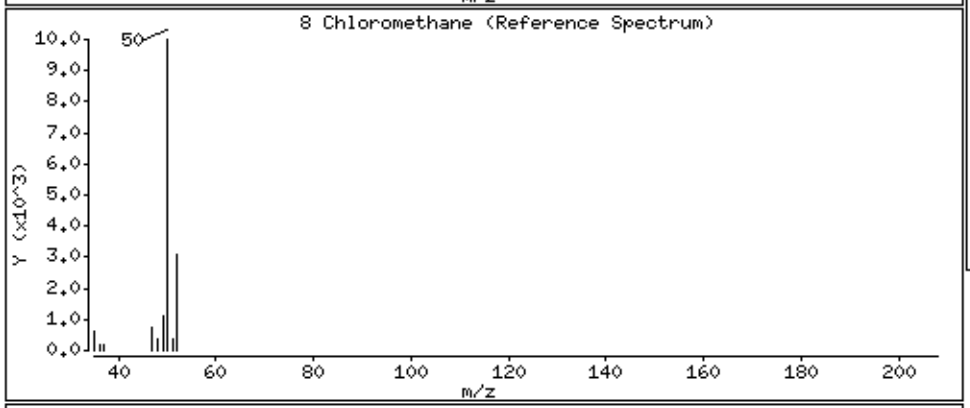
Concentration: 2.613 PPBV

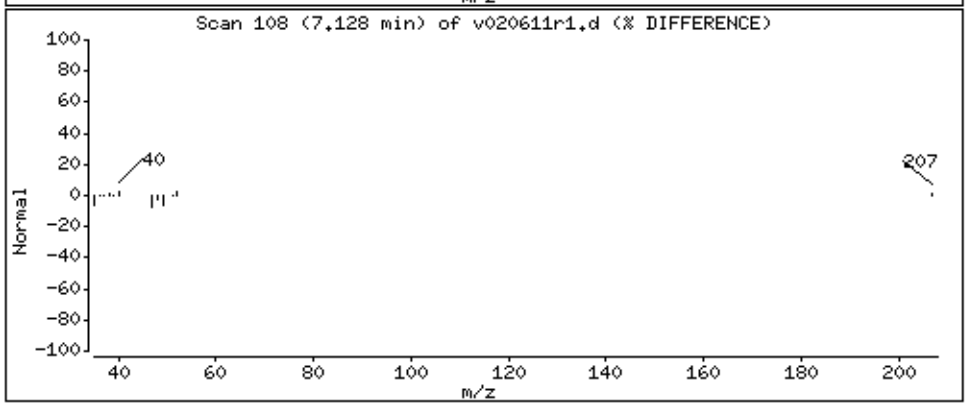












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

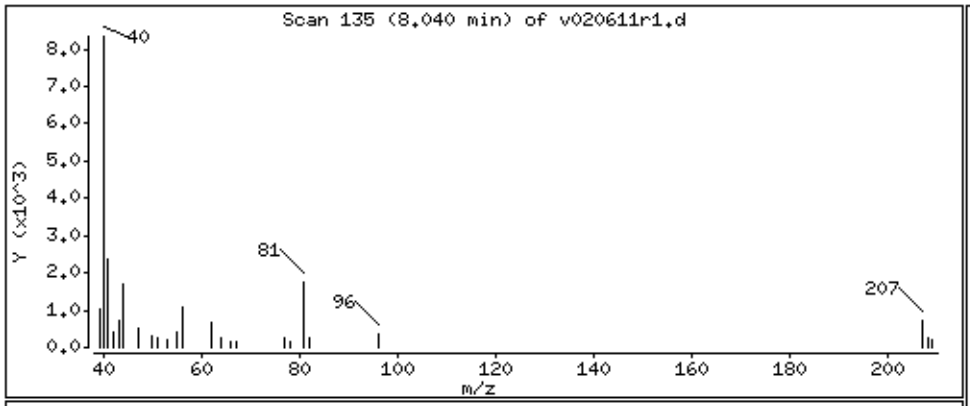
Operator: ef

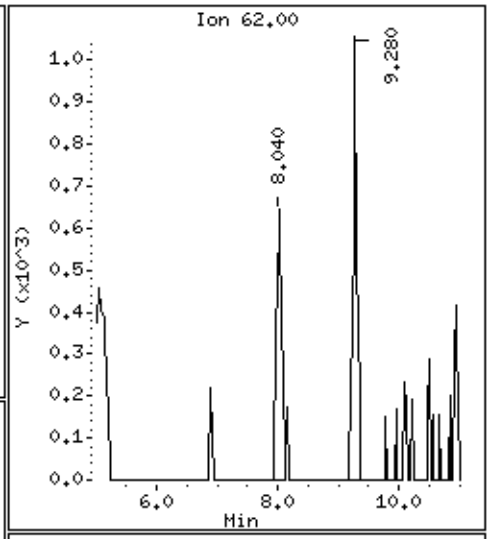
Column phase: RTx-624

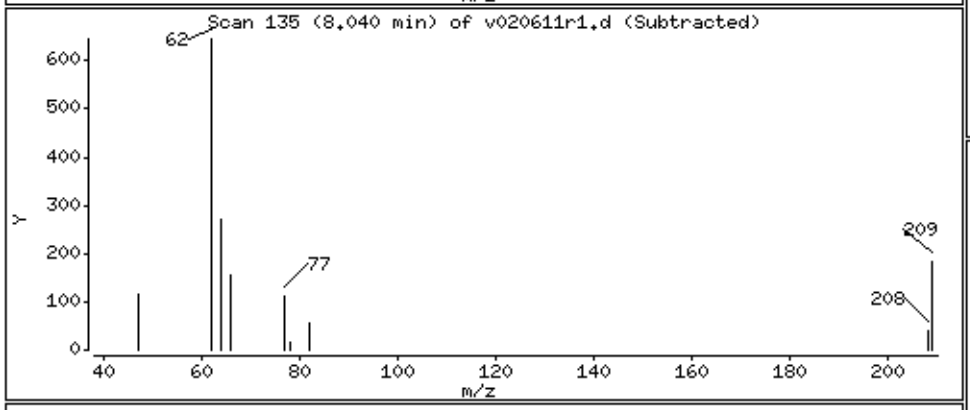
Column diameter: 0.32

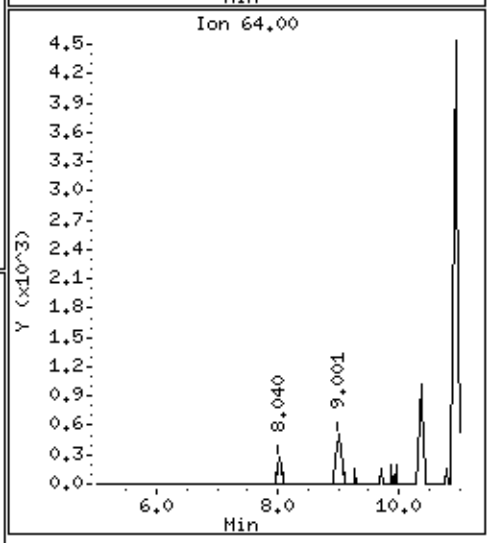
10 Vinyl Chloride

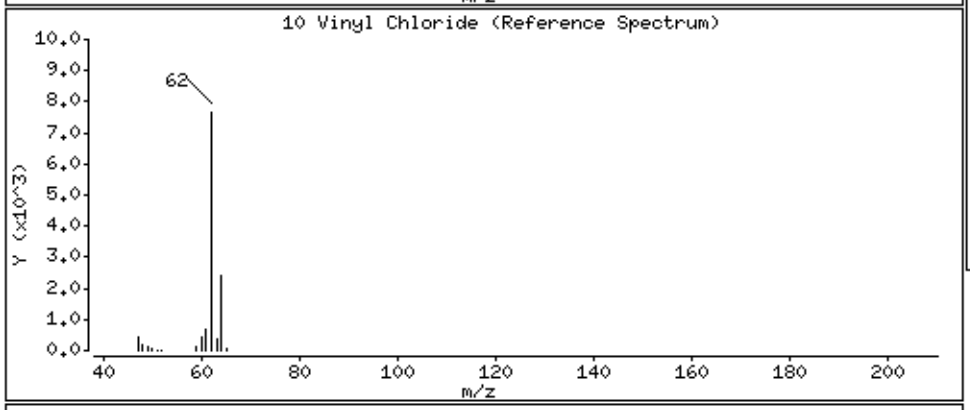
Concentration: 0.07807 PPBV

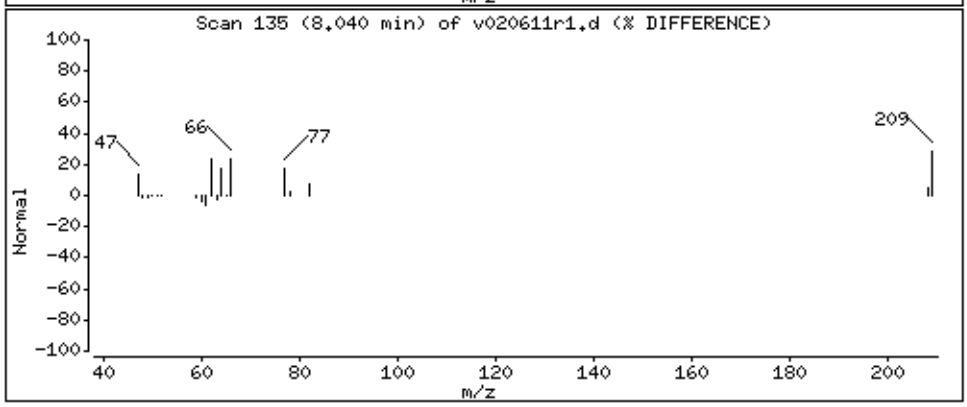












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

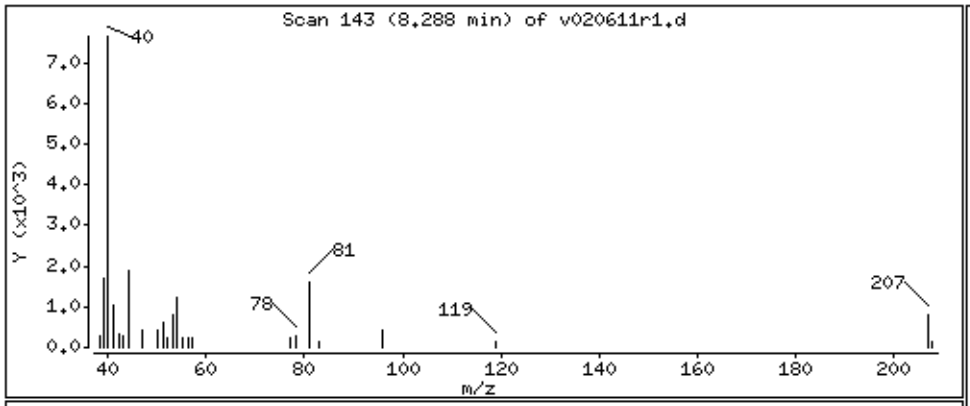
Operator: ef

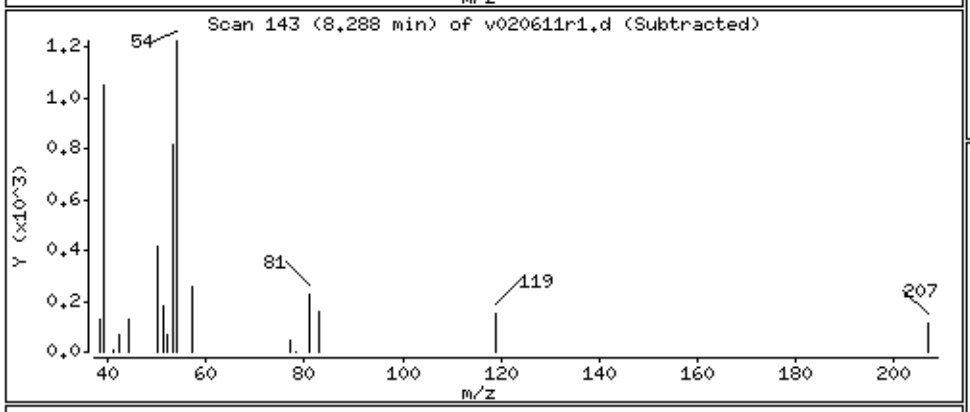
Column phase: RTx-624

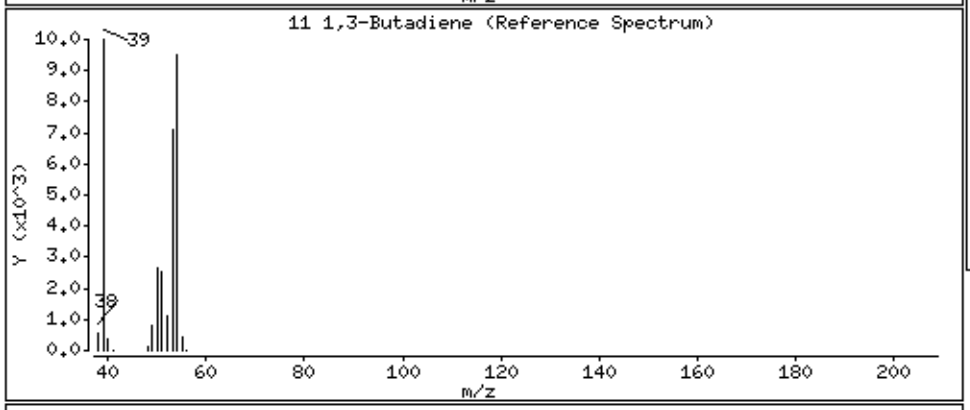
Column diameter: 0.32

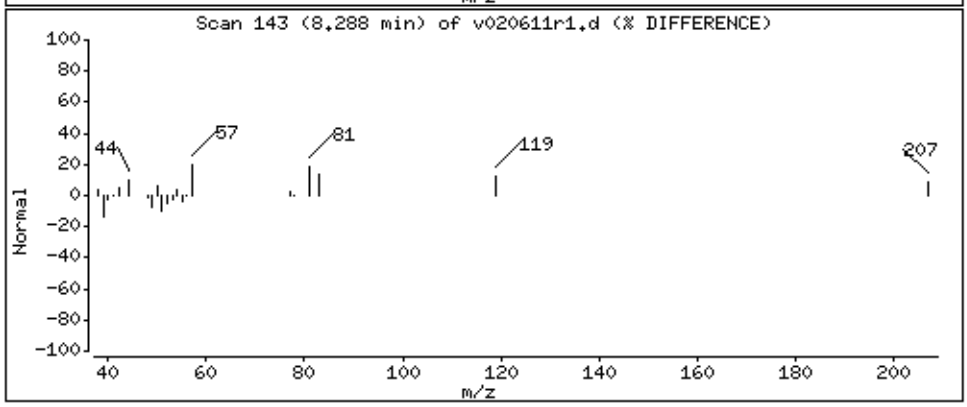
11 1,3-Butadiene

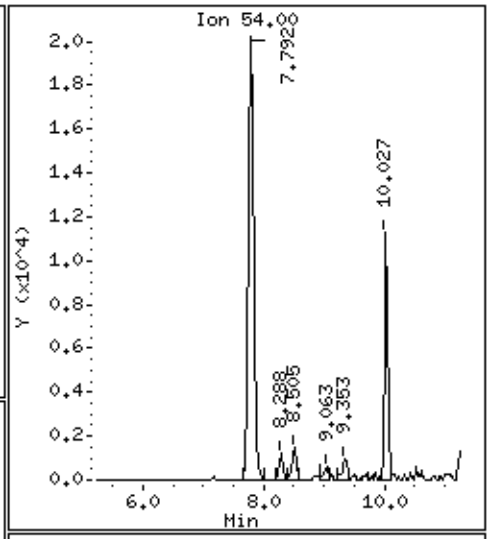
Concentration: 0.1122 PPBV

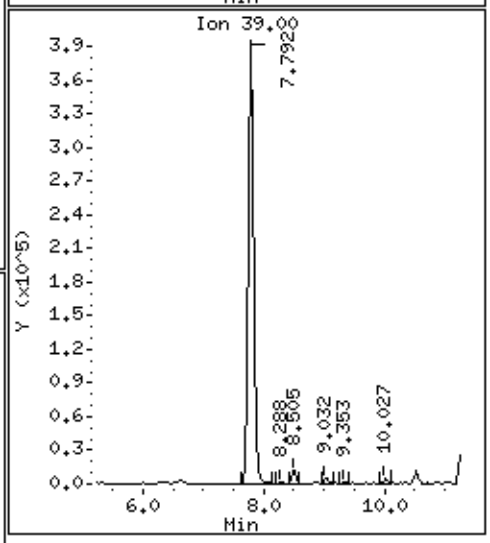












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

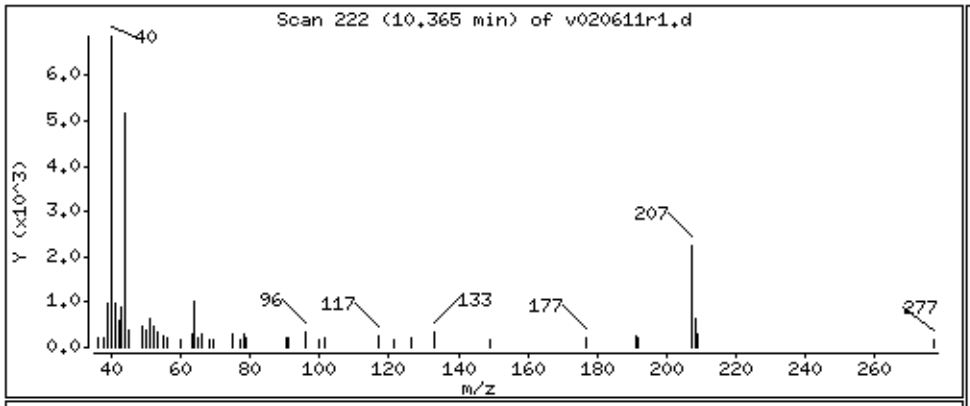
Operator: ef

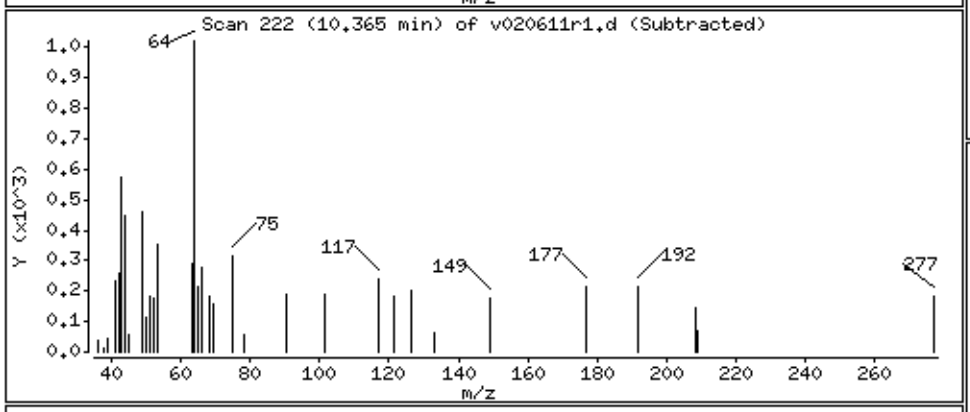
Column phase: RTx-624

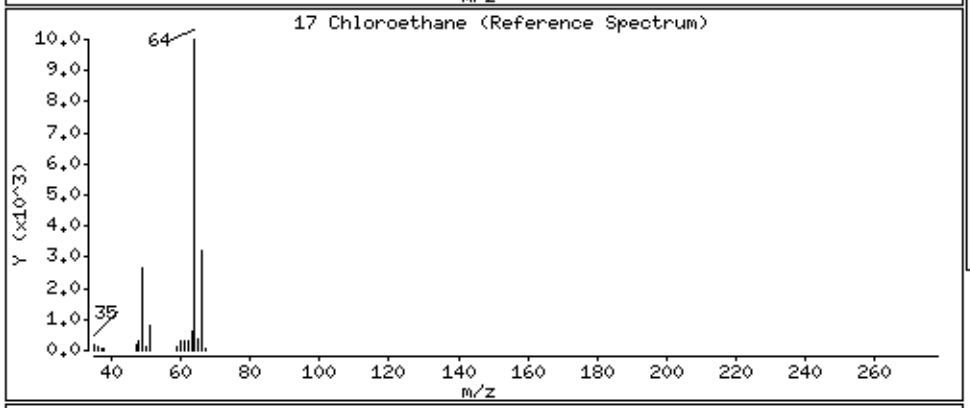
Column diameter: 0.32

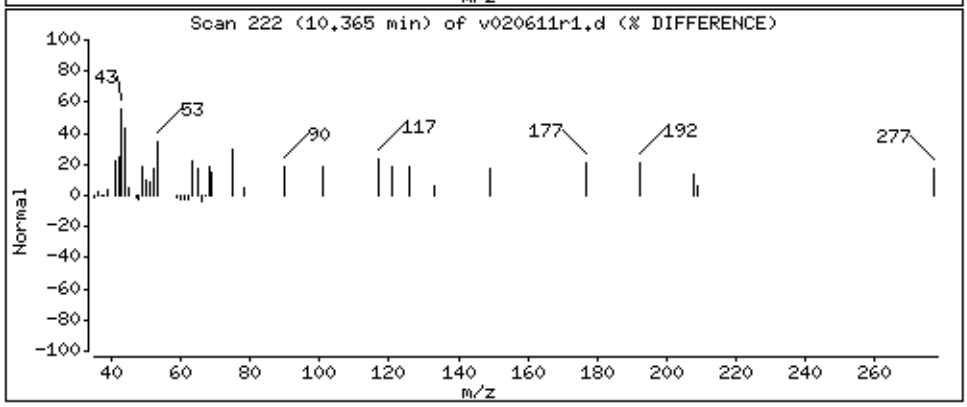
17 Chloroethane

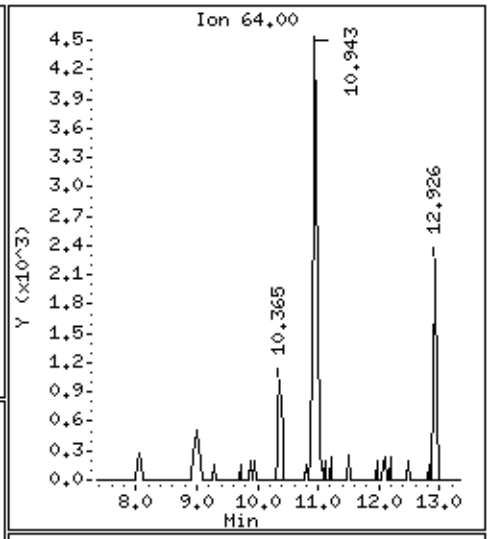
Concentration: 0.2208 PPBV

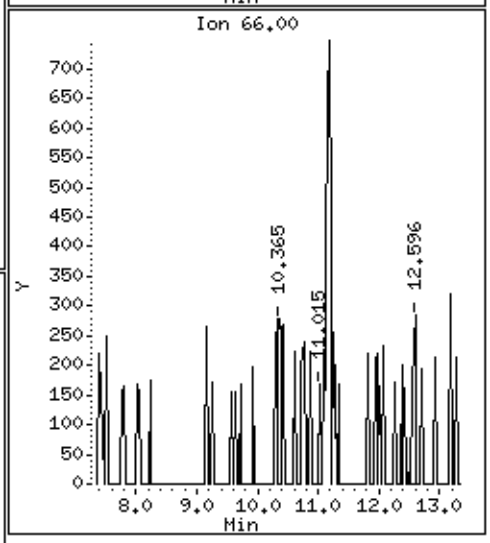












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

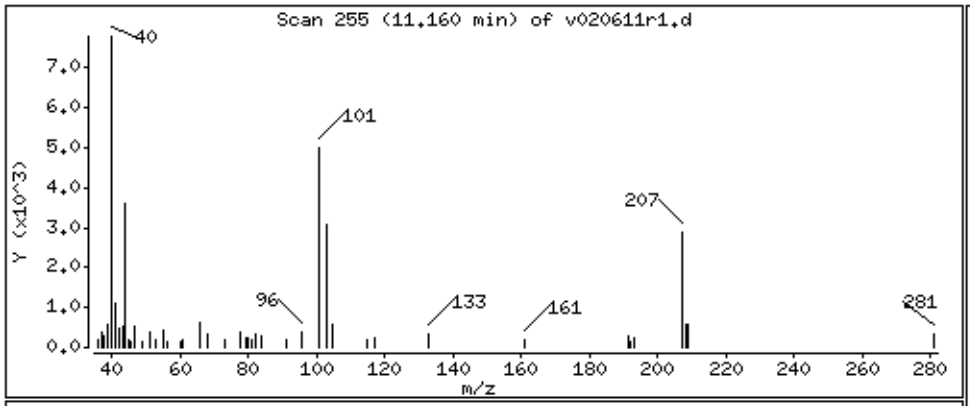
Operator: ef

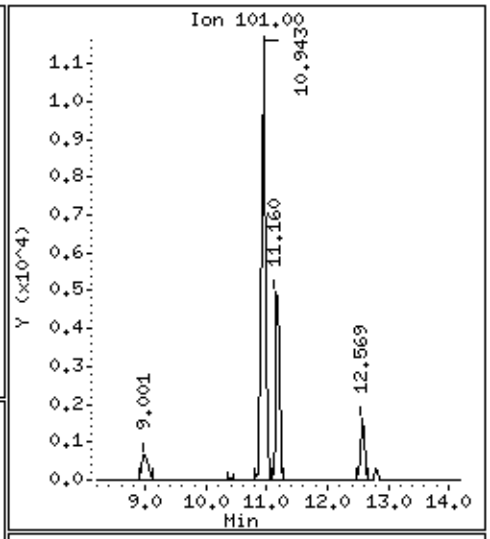
Column phase: RTx-624

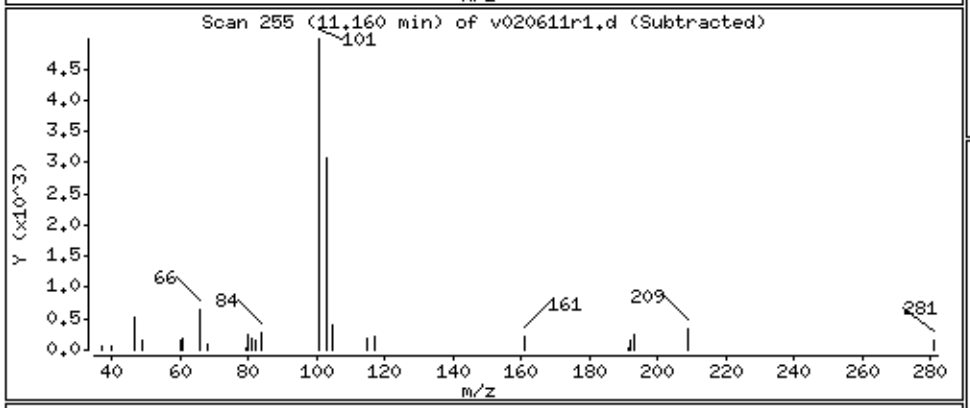
Column diameter: 0.32

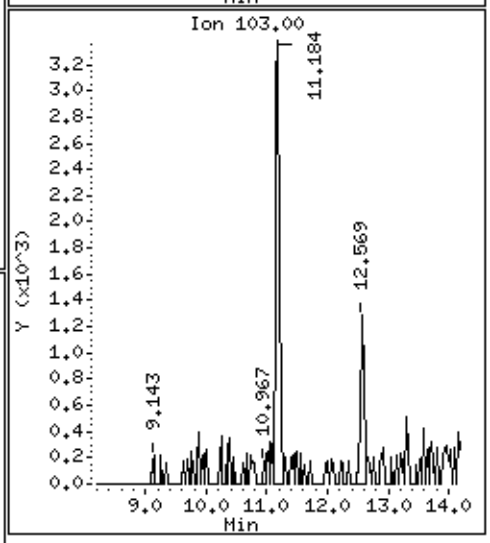
20 Trichlorofluoromethane/Fr11

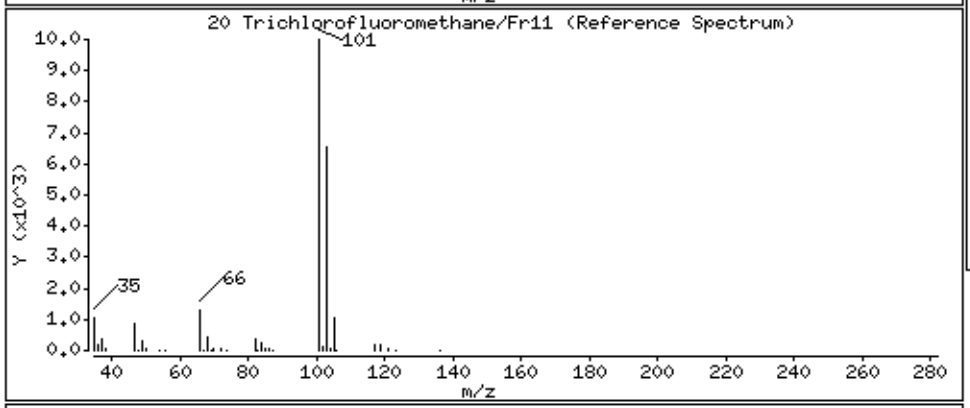
Concentration: 0.2034 PPBV

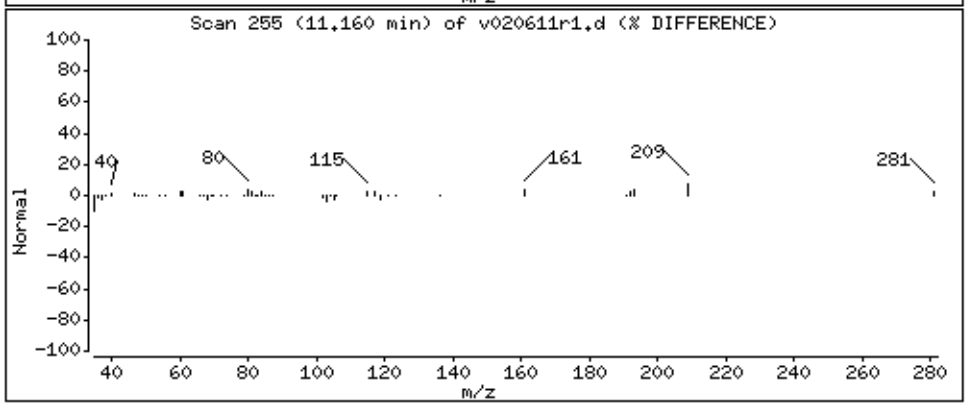












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

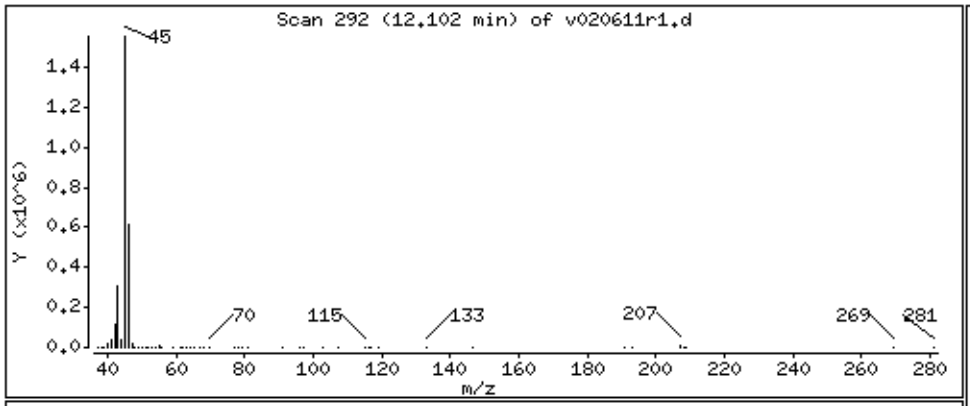
Operator: ef

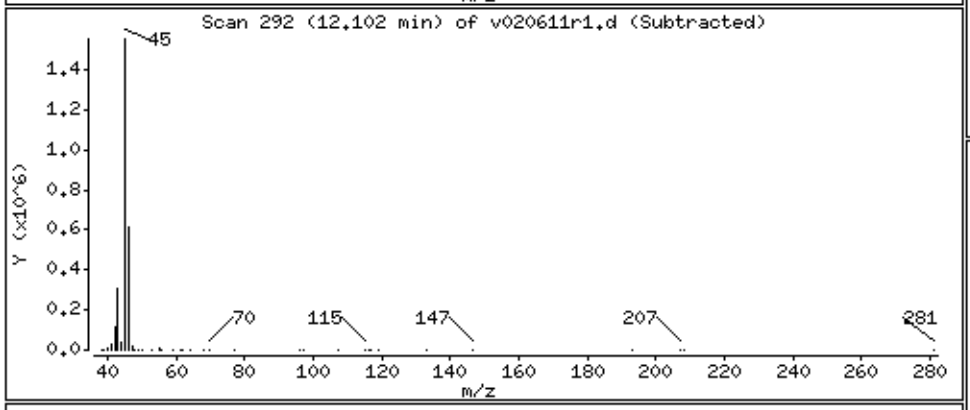
Column phase: RTx-624

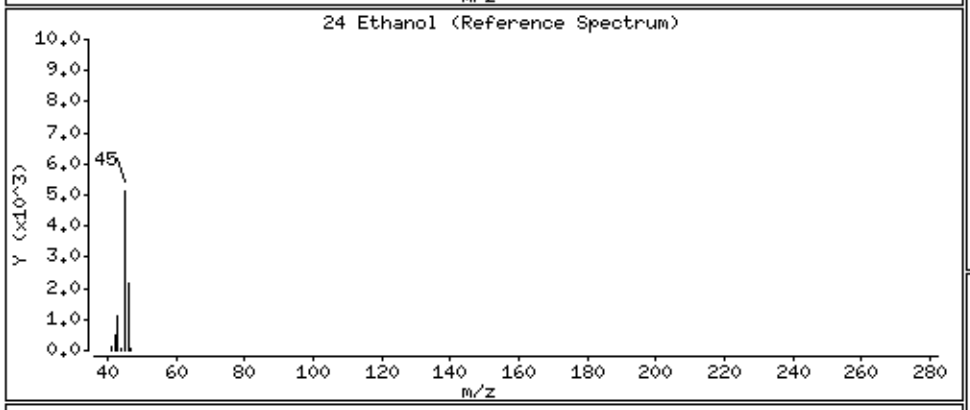
Column diameter: 0.32

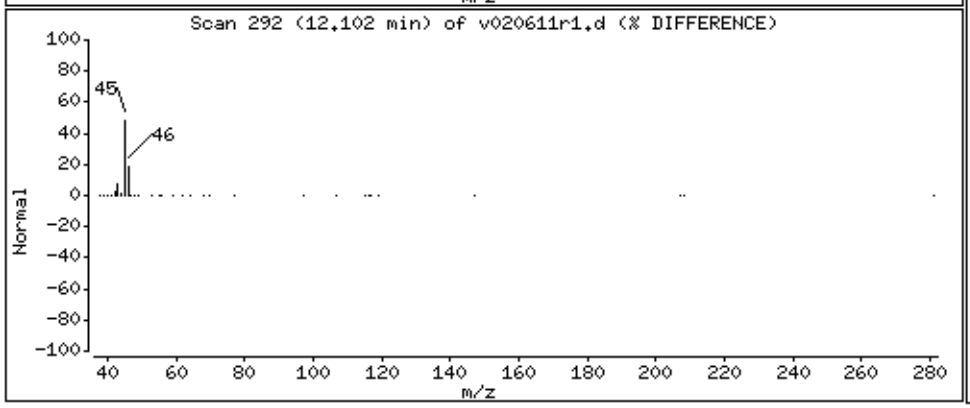
24 Ethanol

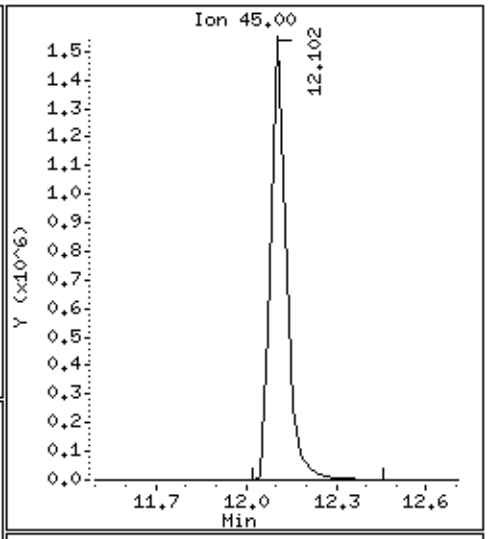
Concentration: 245.16 PPBV

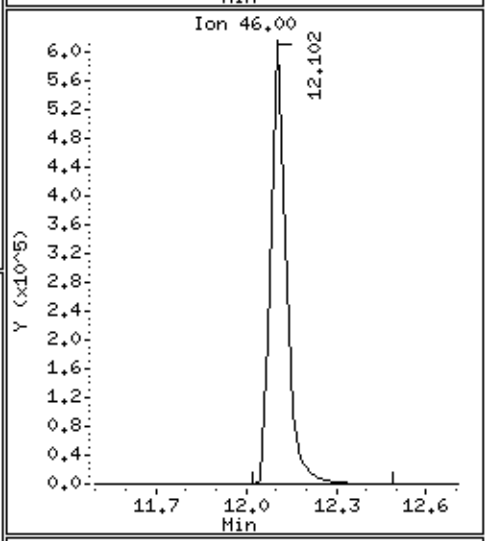


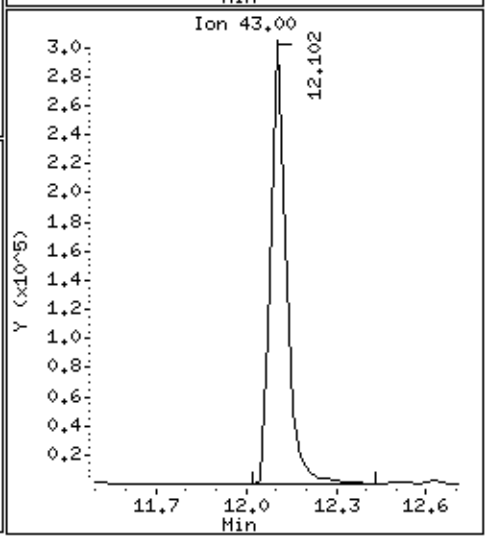












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

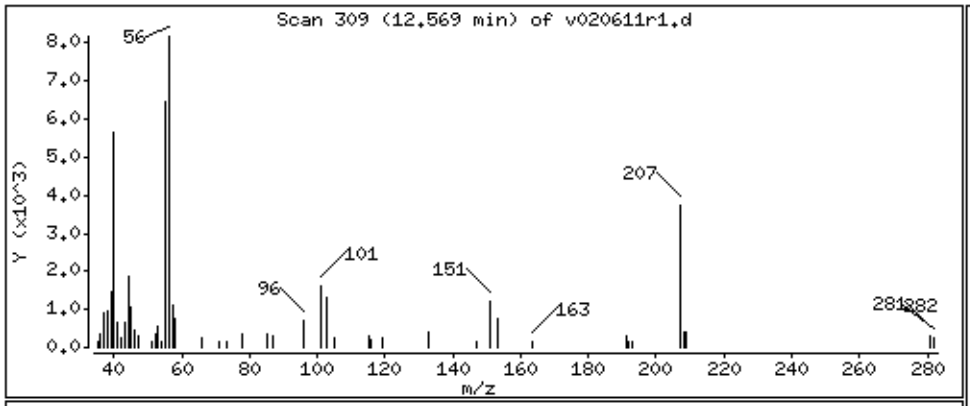
Operator: ef

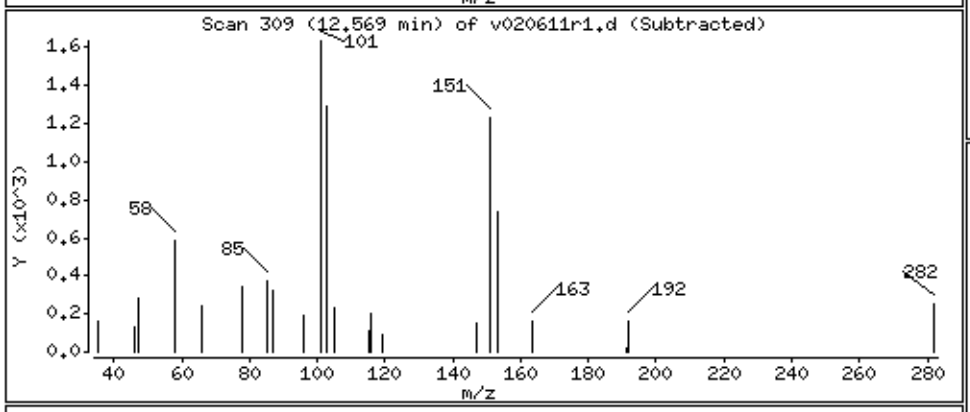
Column phase: RTx-624

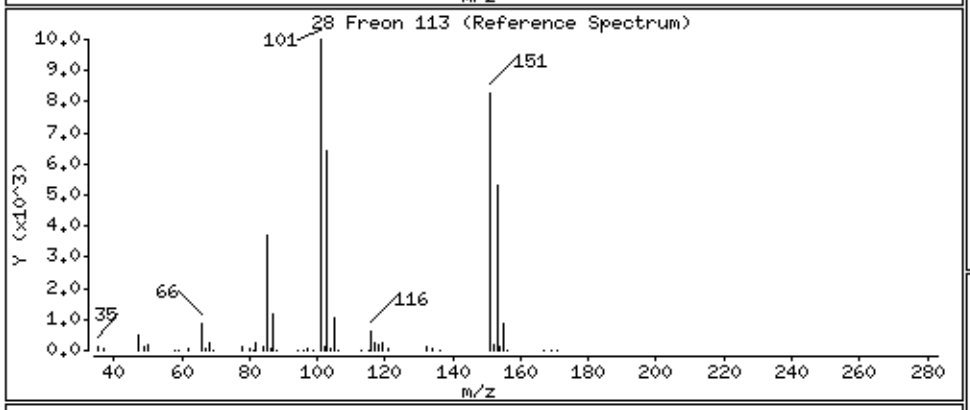
Column diameter: 0.32

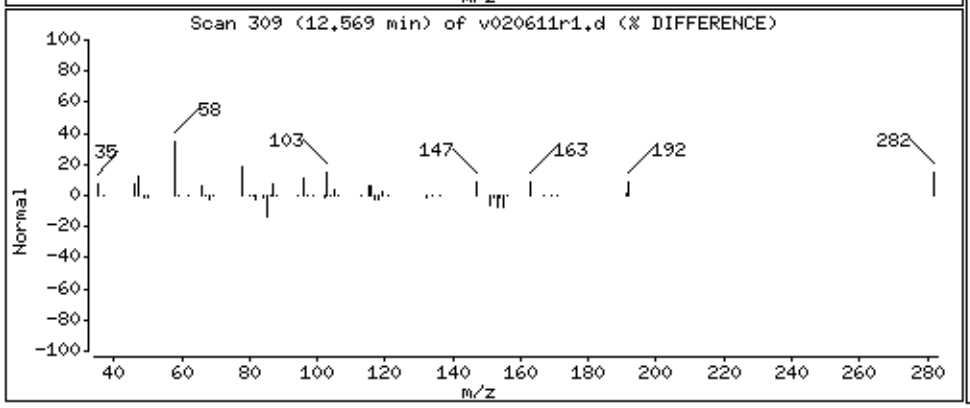
28 Freon 113

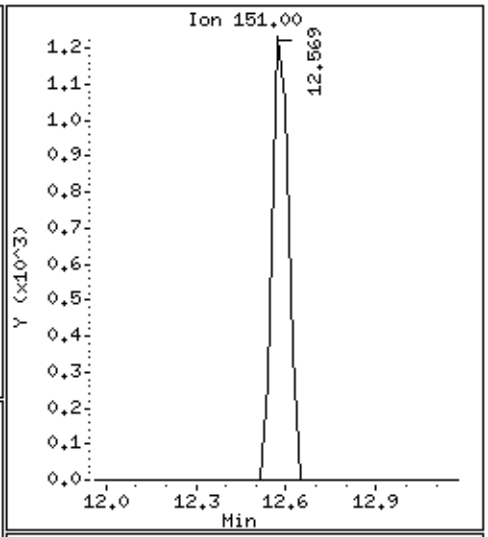
Concentration: 0.06288 PPBV

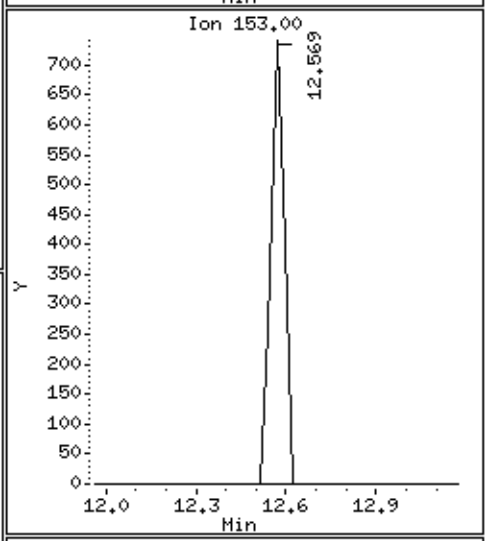


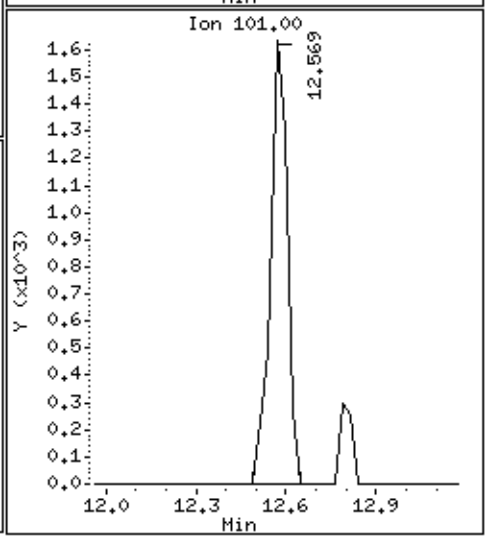












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

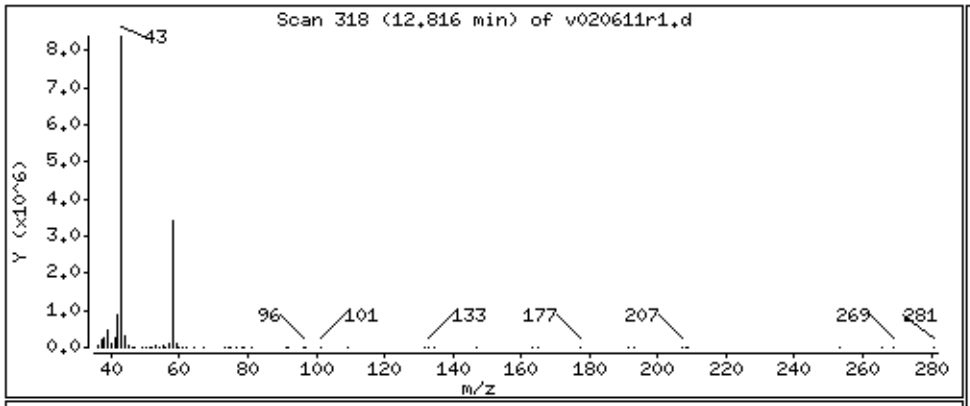
Operator: ef

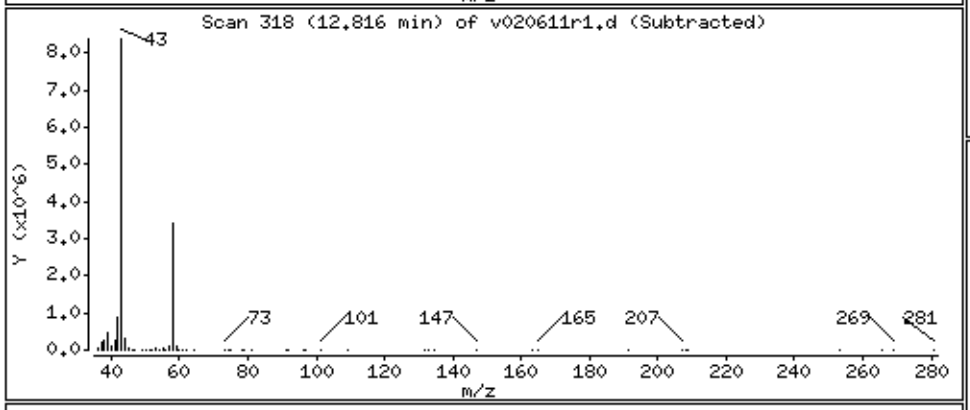
Column phase: RTx-624

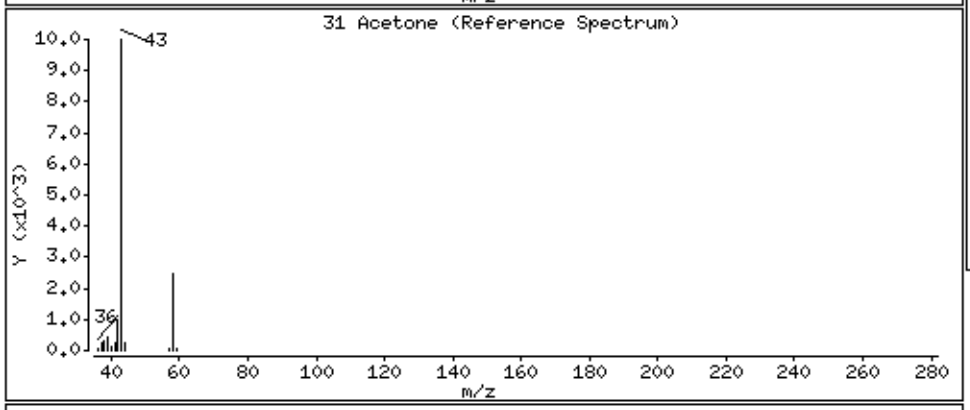
Column diameter: 0.32

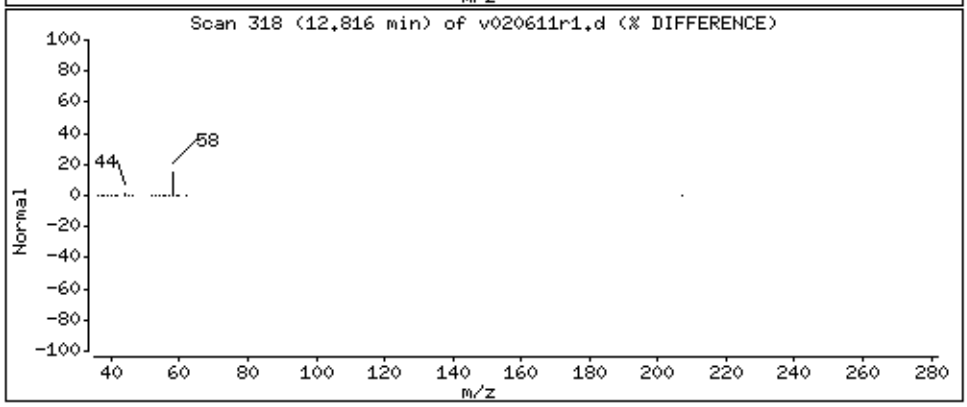
31 Acetone

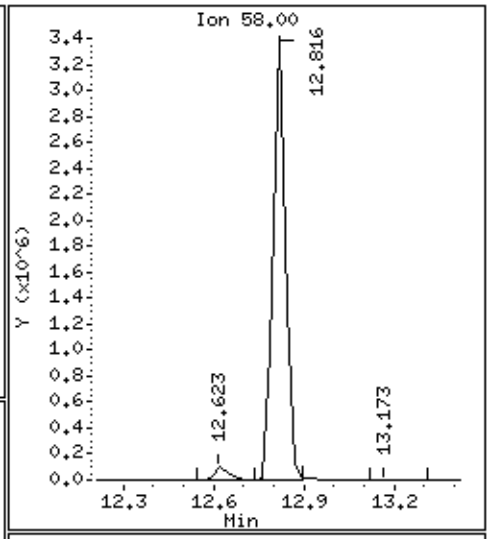
Concentration: 333.99 PPBV

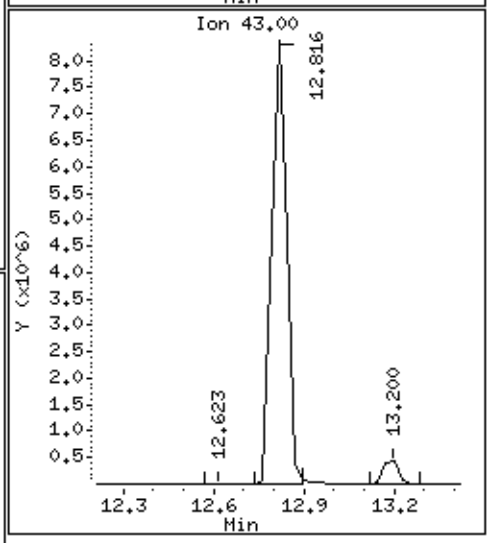












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

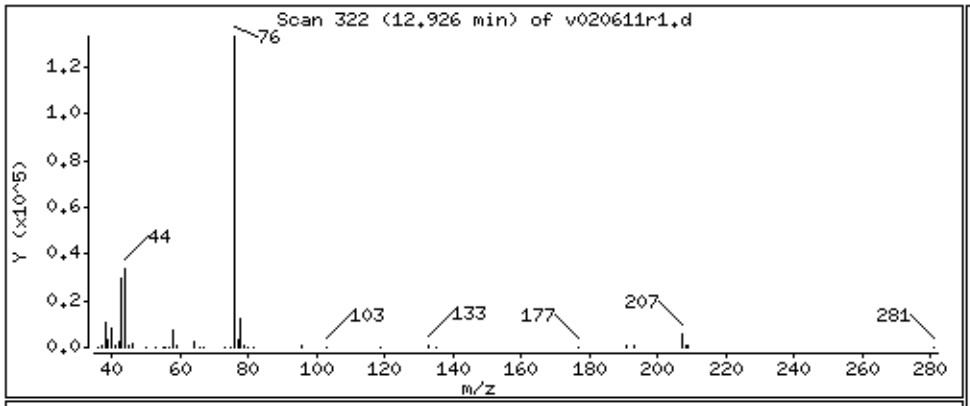
Operator: ef

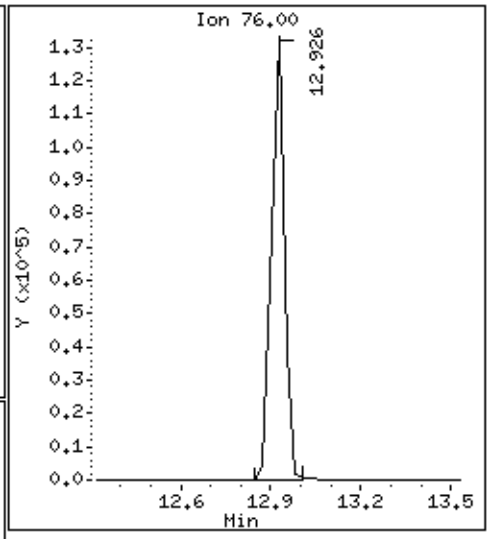
Column phase: RTx-624

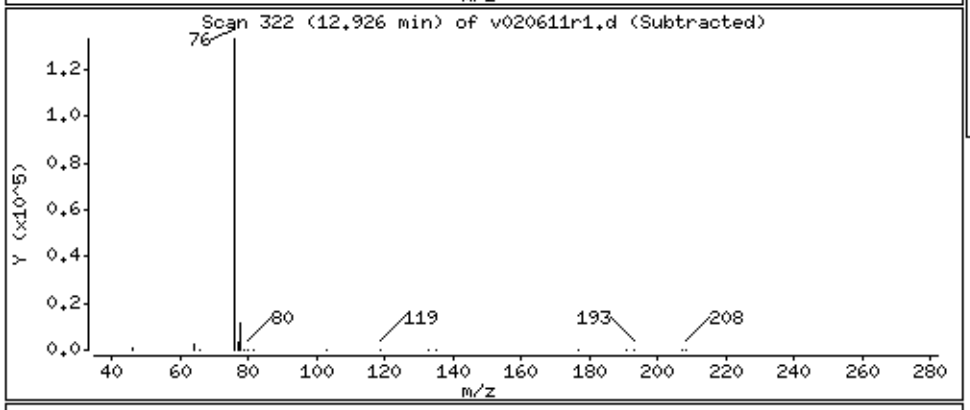
Column diameter: 0.32

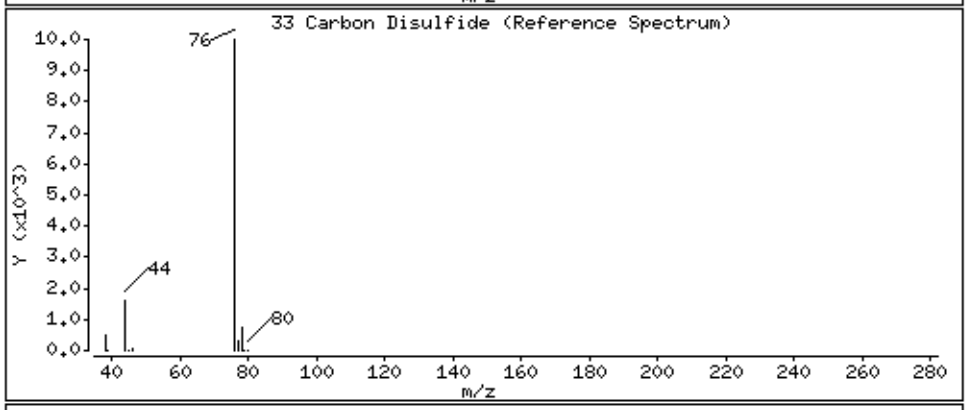
33 Carbon Disulfide

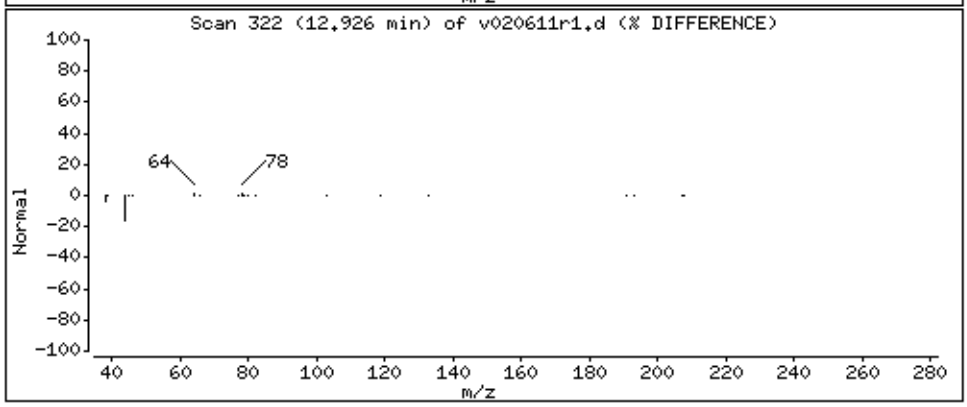
Concentration: 3.681 PPBV











Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

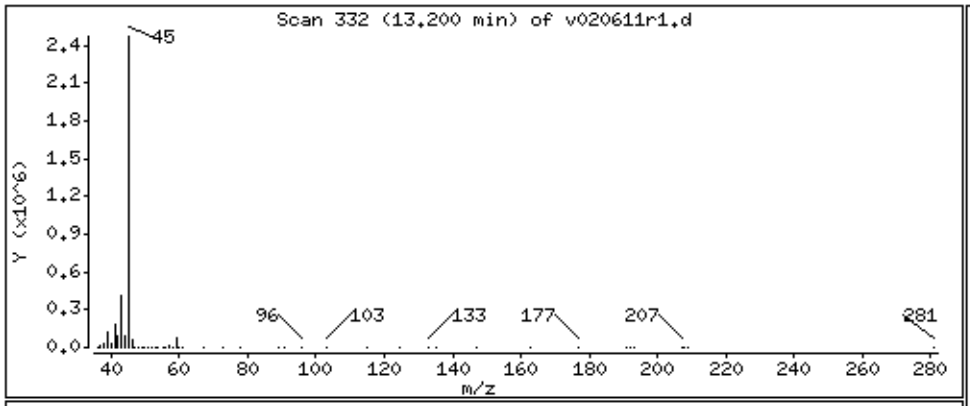
Operator: ef

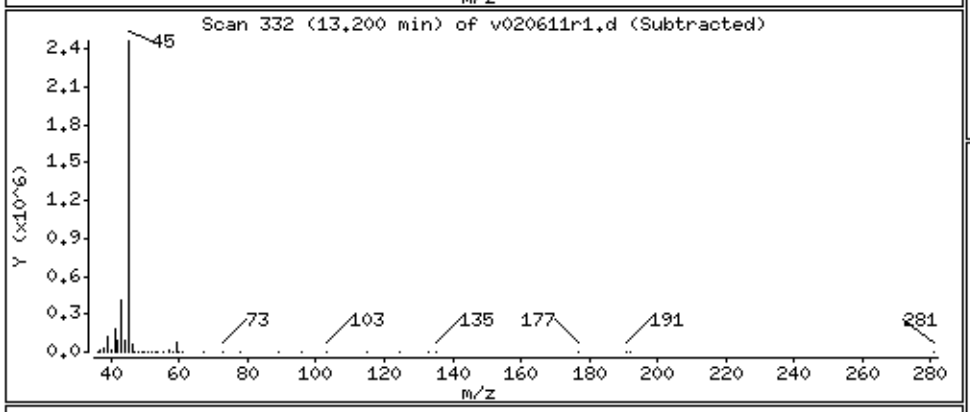
Column phase: RTx-624

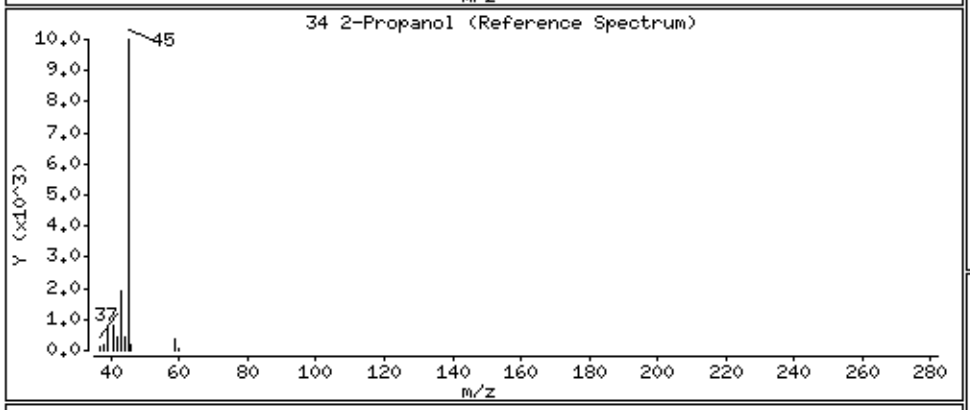
Column diameter: 0.32

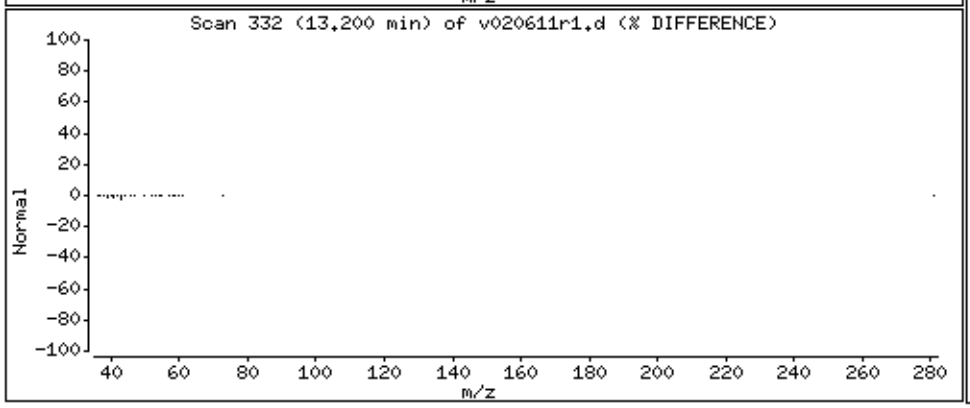
34 2-Propanol

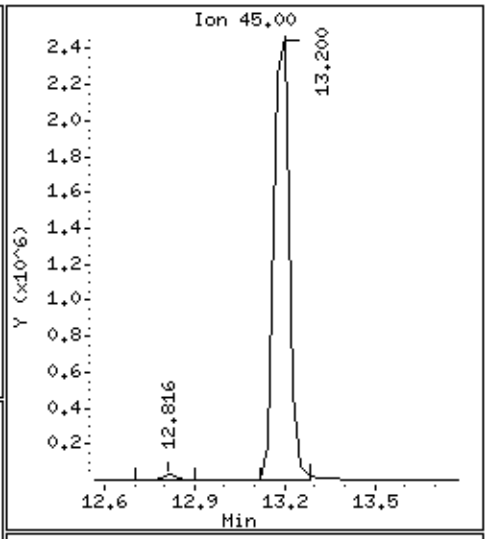
Concentration: 78.625 PPBV

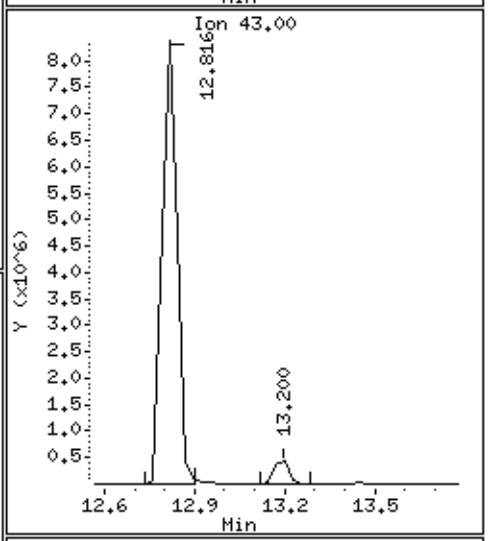


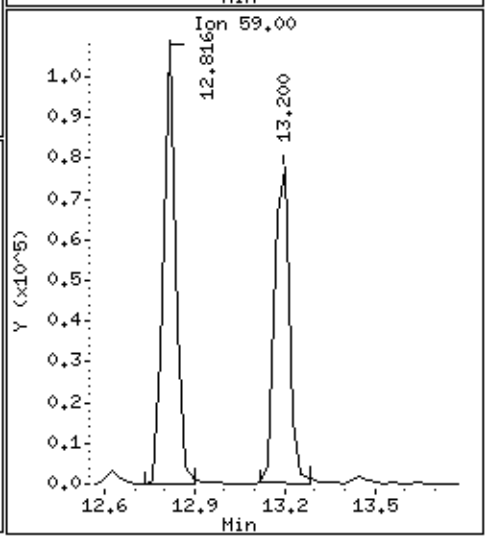












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

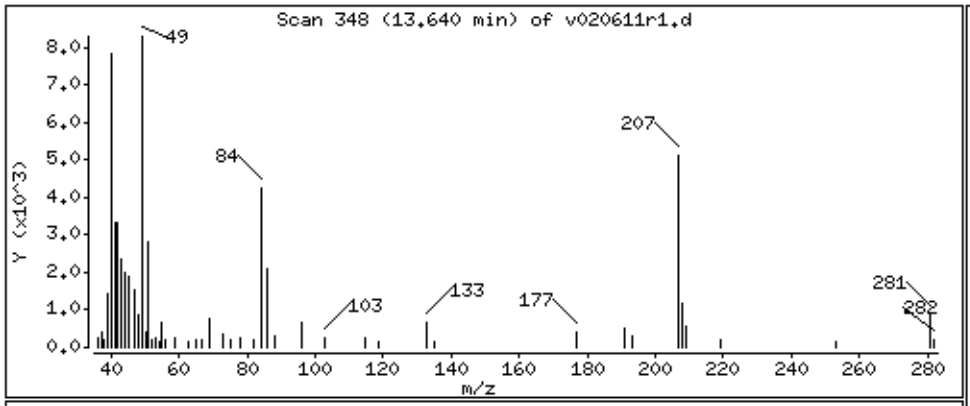
Operator: ef

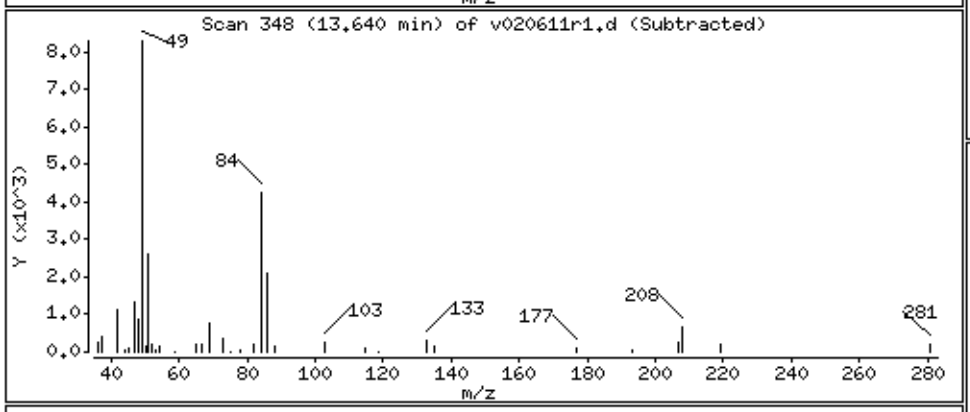
Column phase: RTx-624

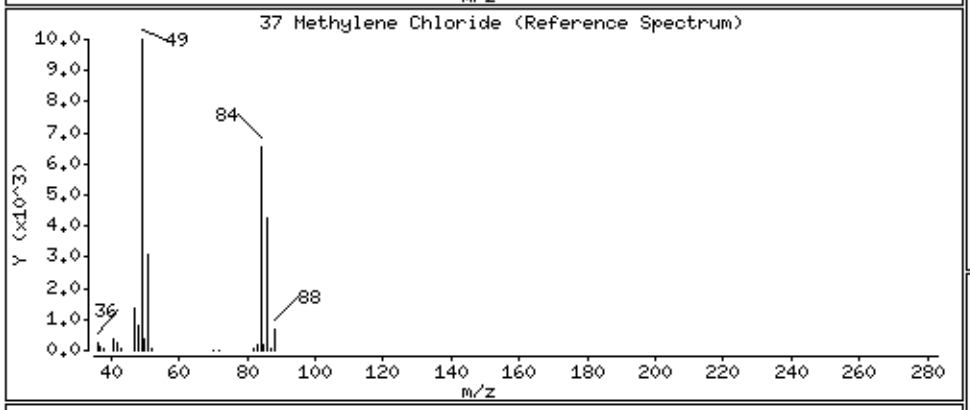
Column diameter: 0.32

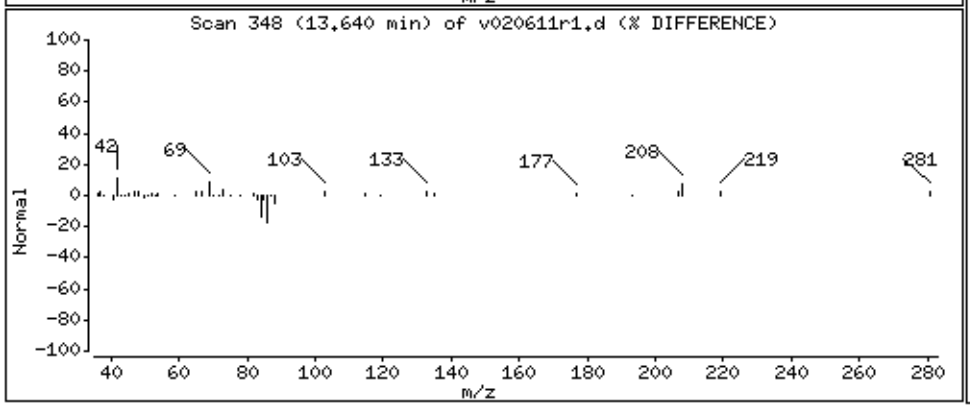
37 Methylene Chloride

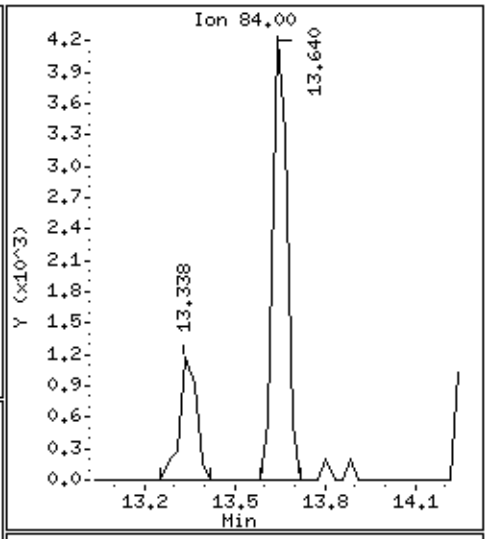
Concentration: 0.3968 PPBV

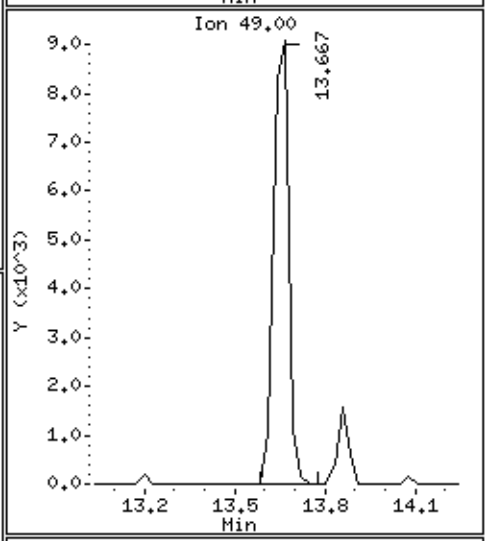


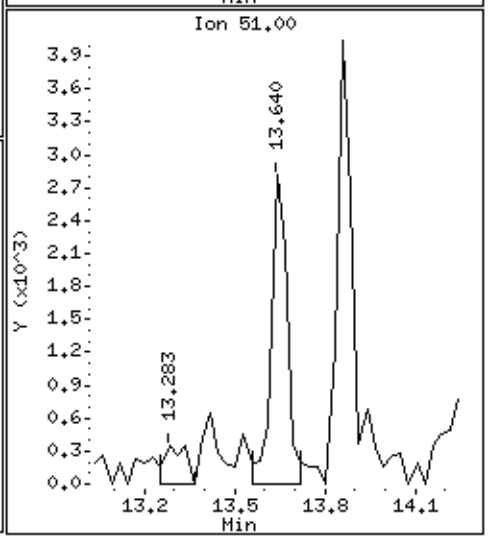












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

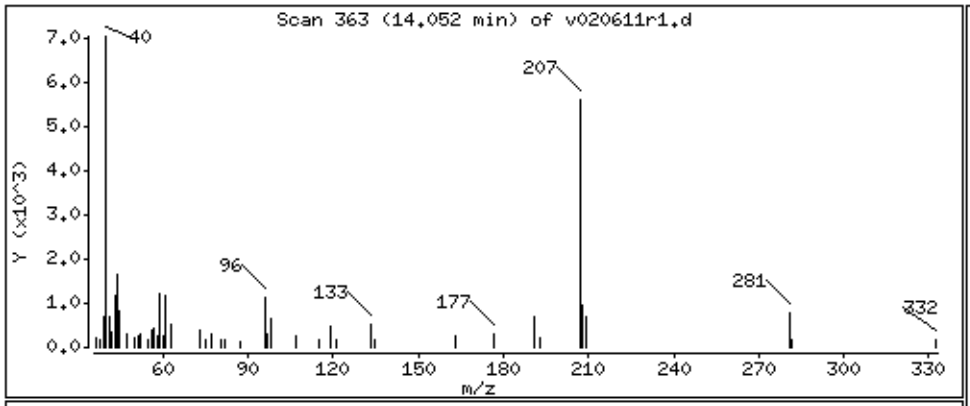
Operator: ef

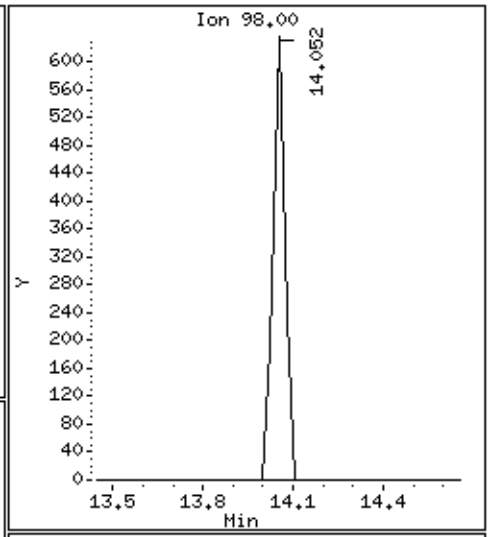
Column phase: RTx-624

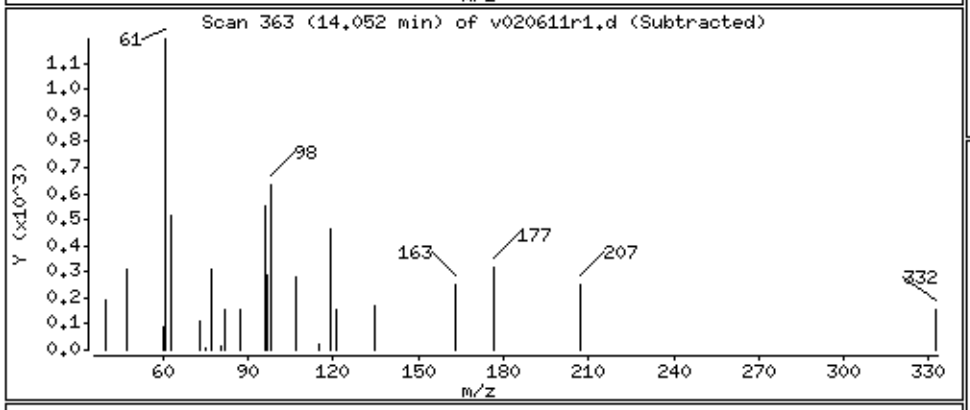
Column diameter: 0.32

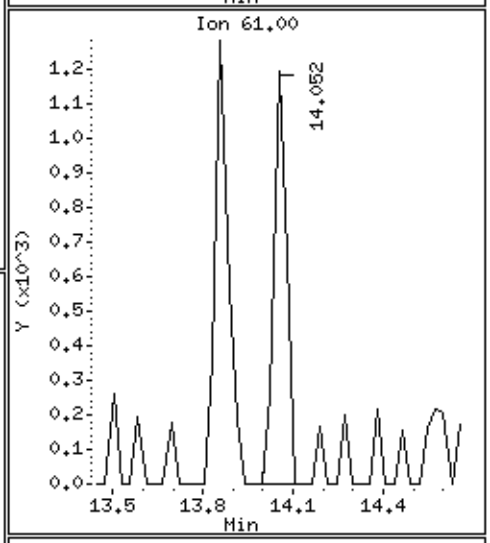
40 trans-1,2-Dichloroethene

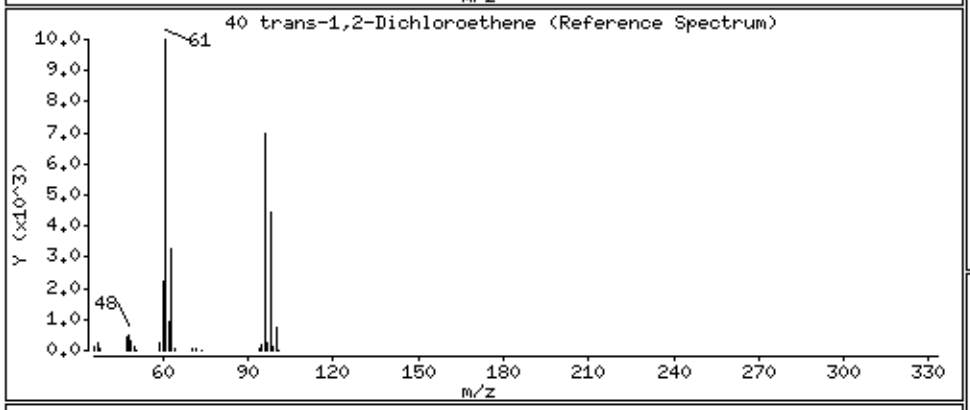
Concentration: 0.06621 PPBV

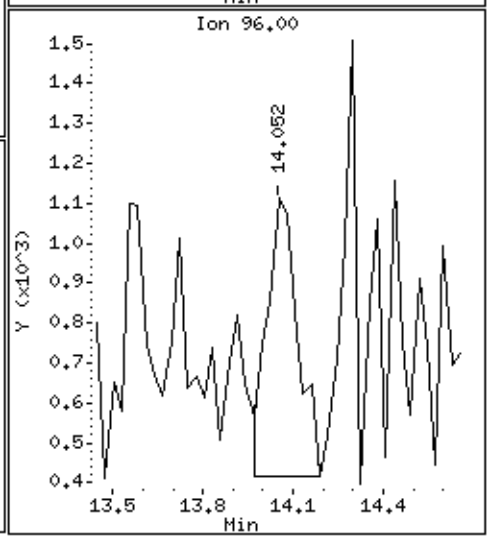


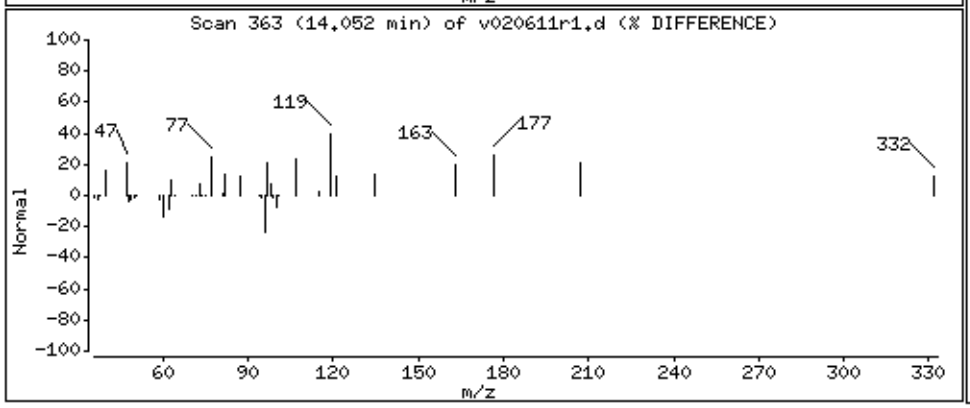












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

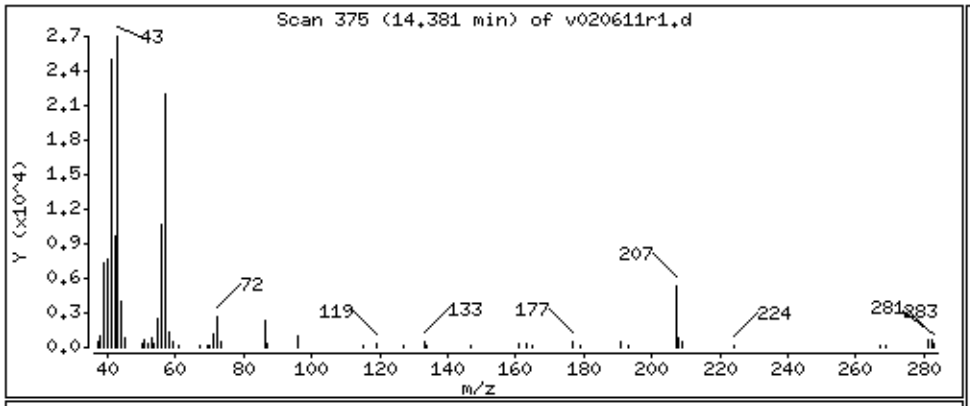
Operator: ef

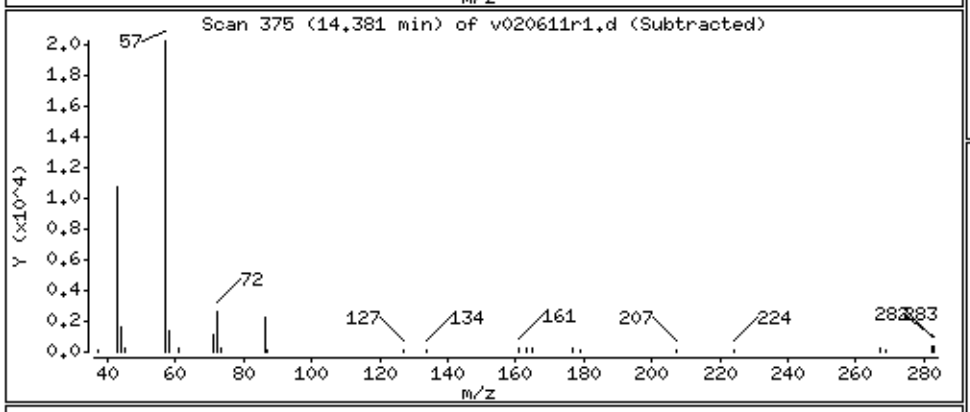
Column phase: RTx-624

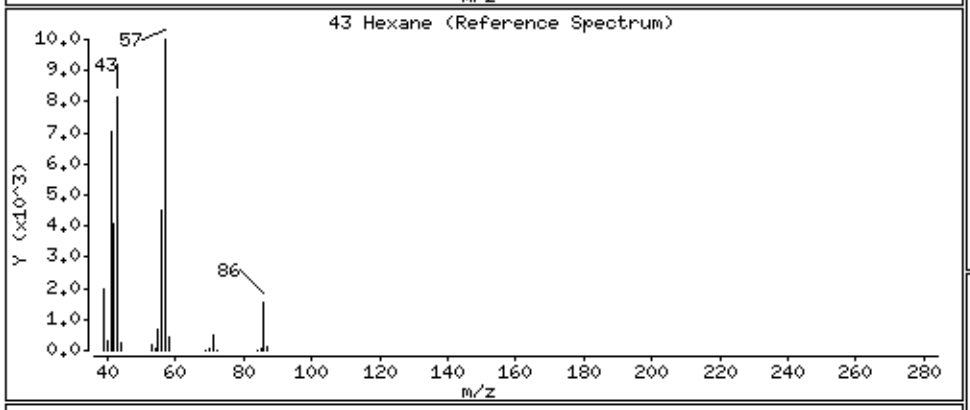
Column diameter: 0.32

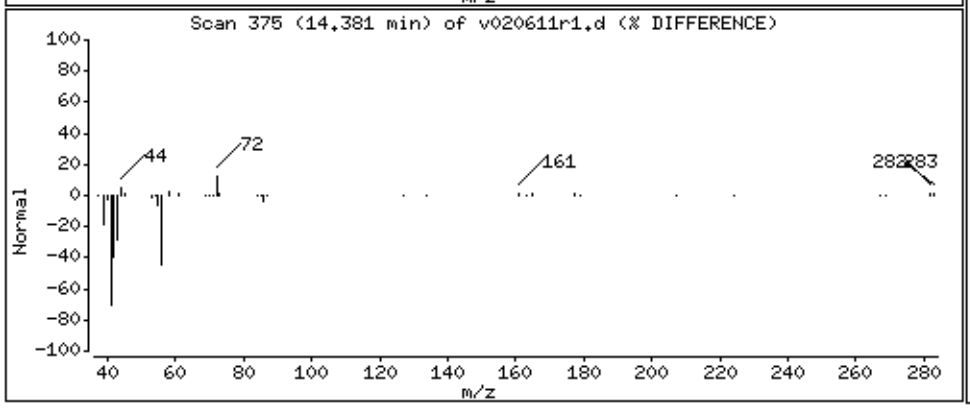
43 Hexane

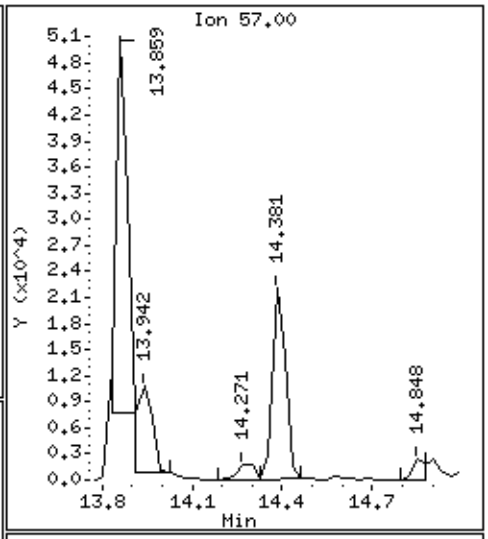
Concentration: 0.6568 PPBV

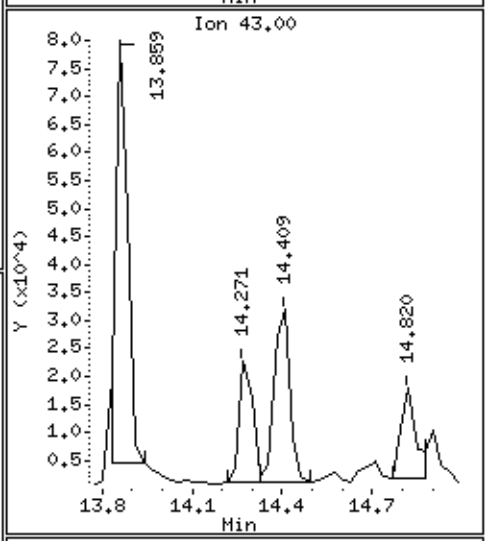


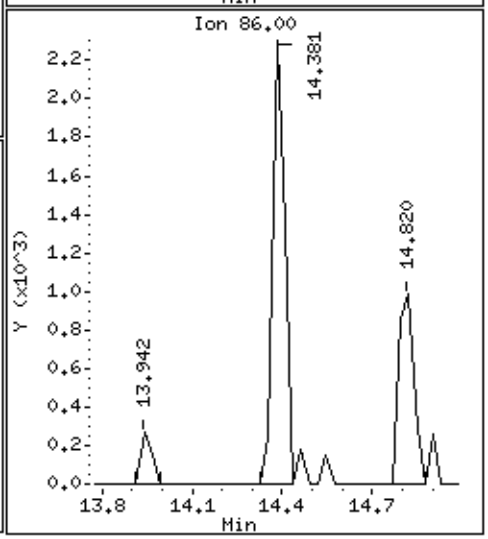












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

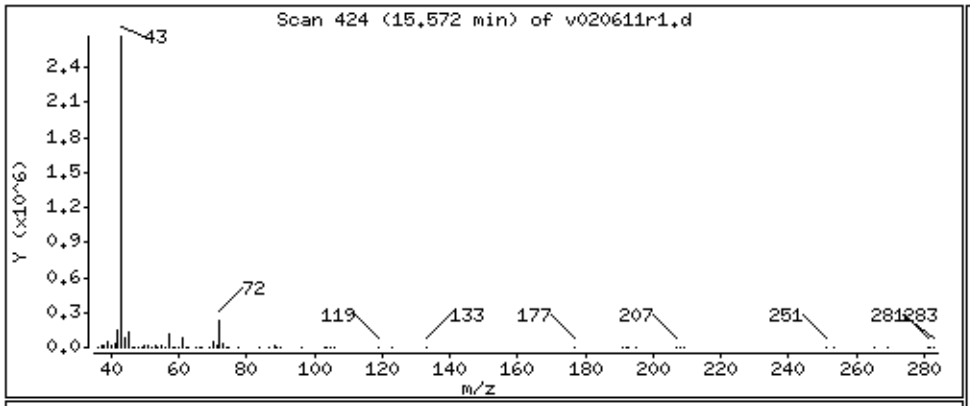
Operator: ef

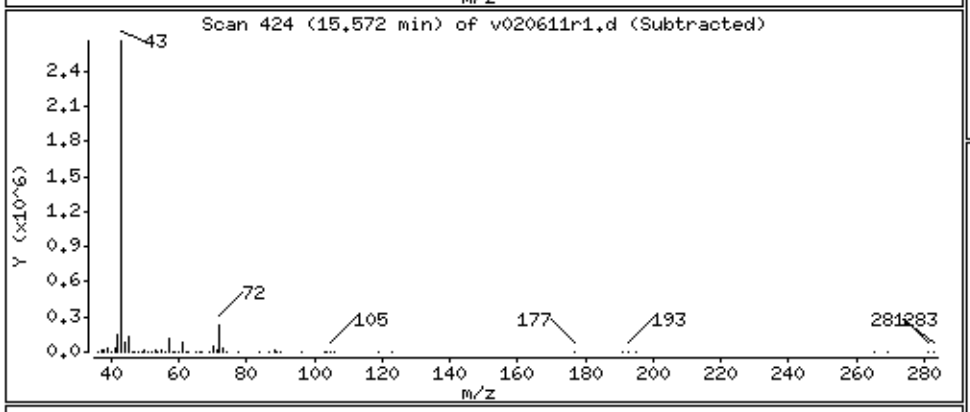
Column phase: RTx-624

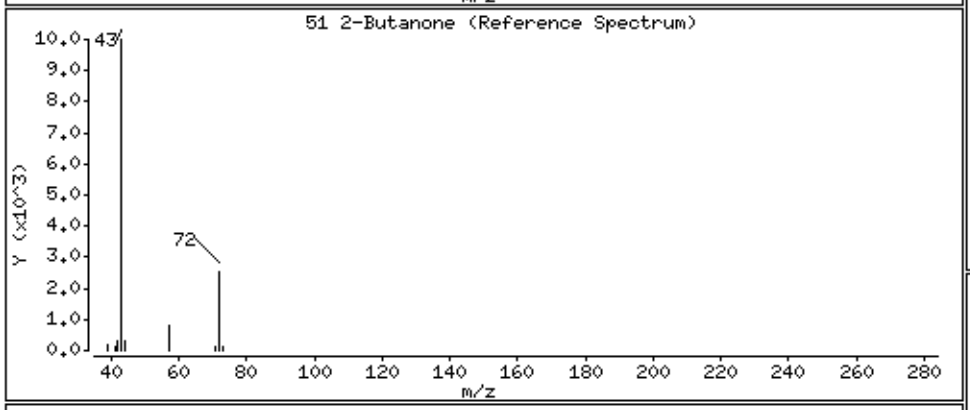
Column diameter: 0.32

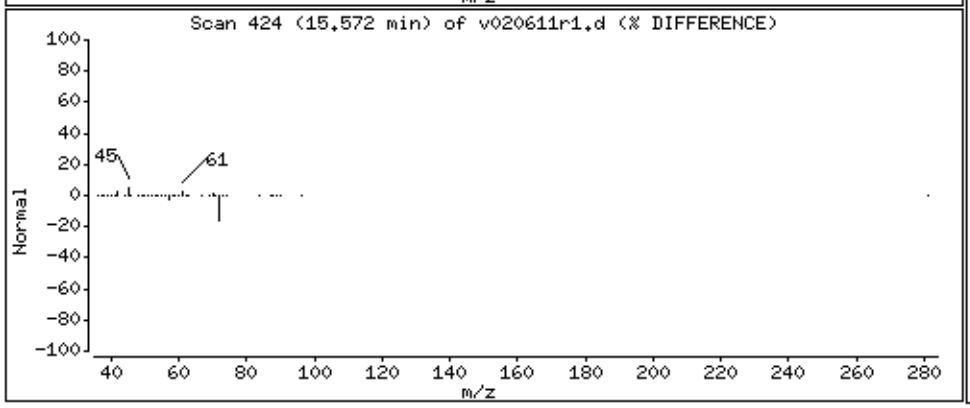
51 2-Butanone

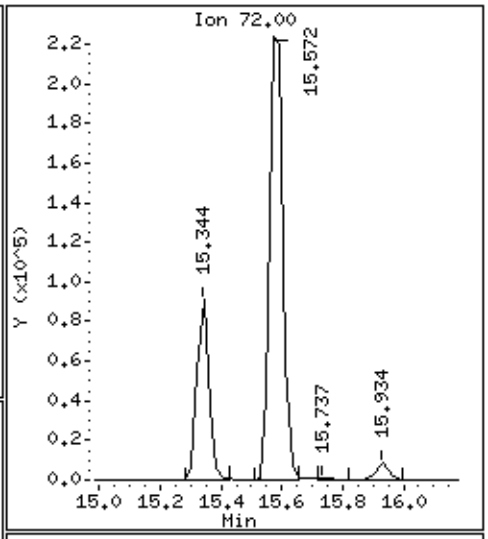
Concentration: 35.006 PPBV

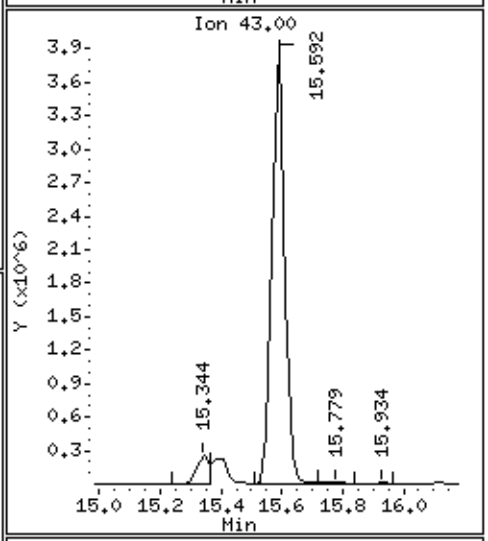


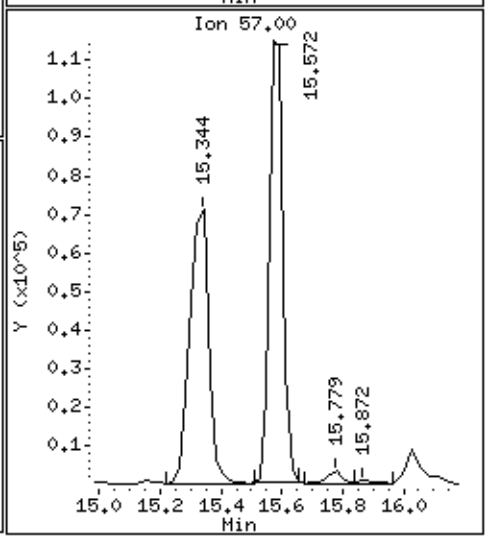












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

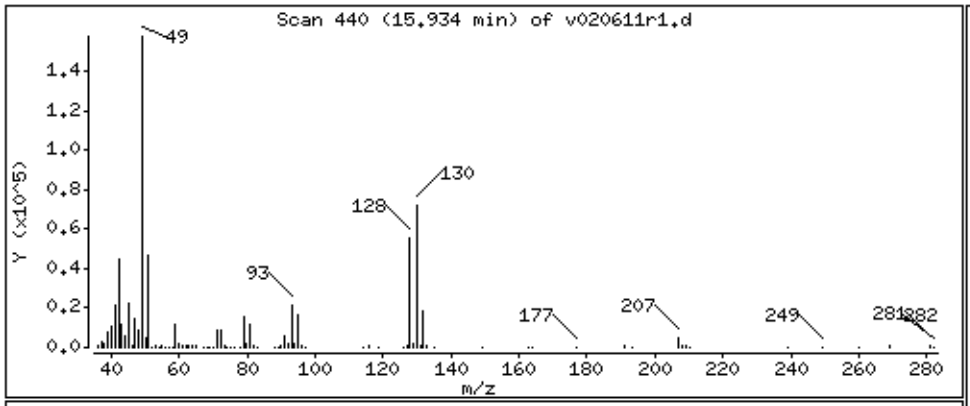
Operator: ef

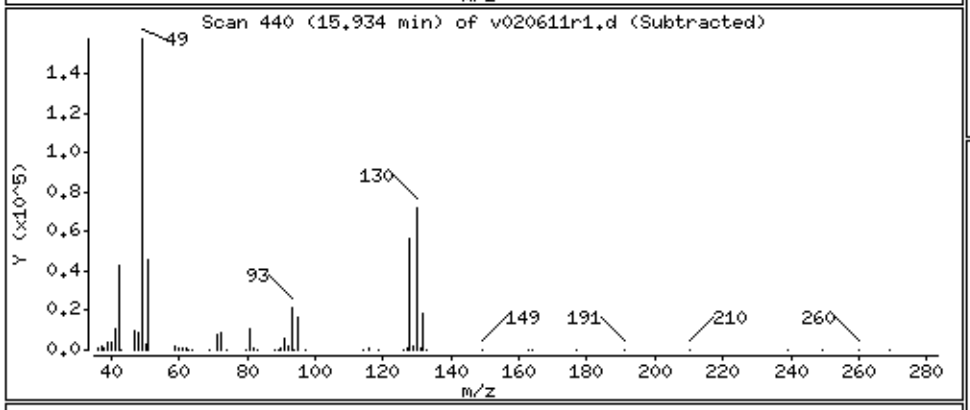
Column phase: RTx-624

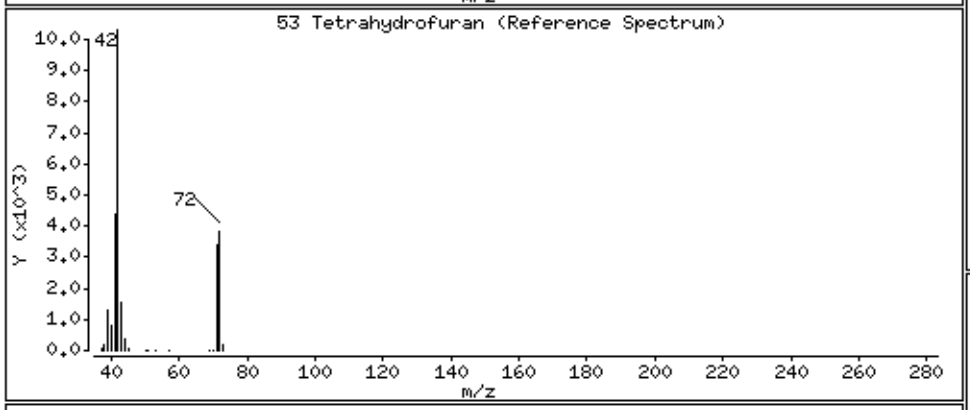
Column diameter: 0.32

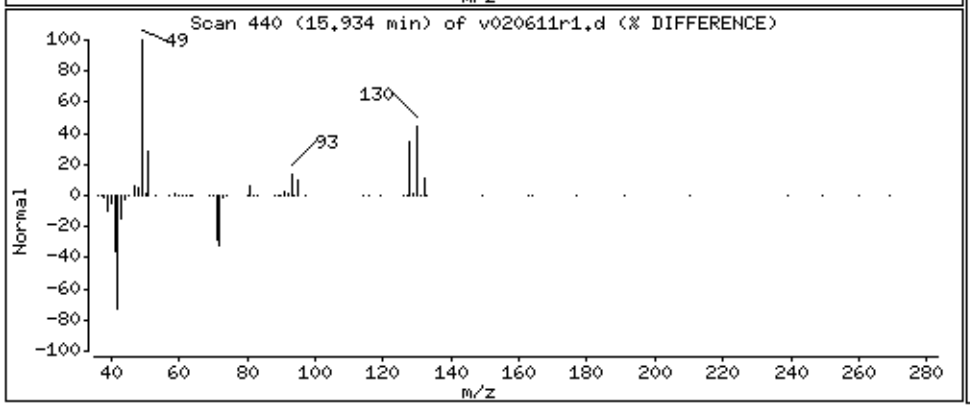
53 Tetrahydrofuran

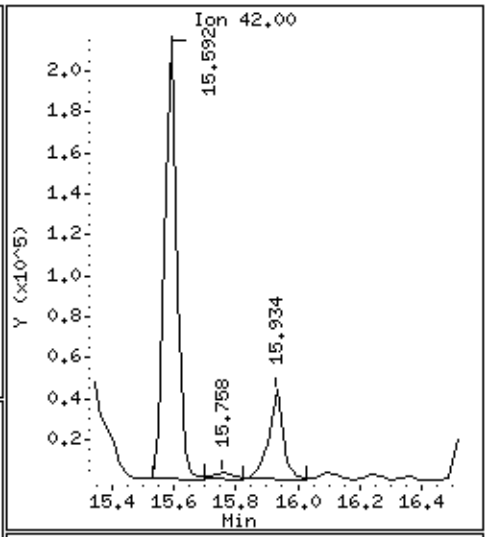
Concentration: 1.586 PPBV

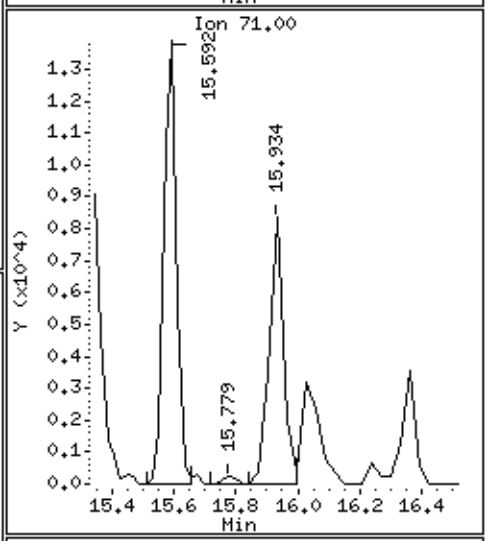


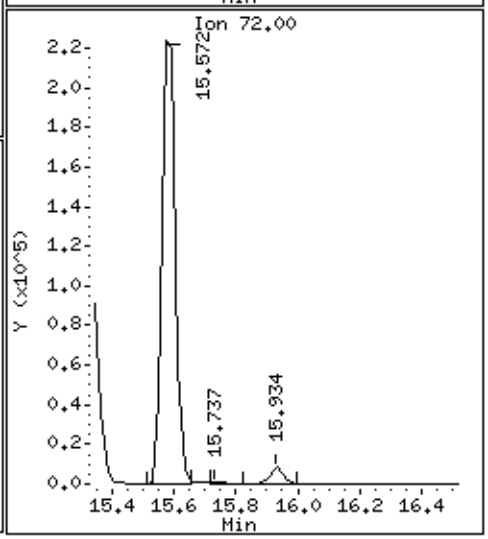












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

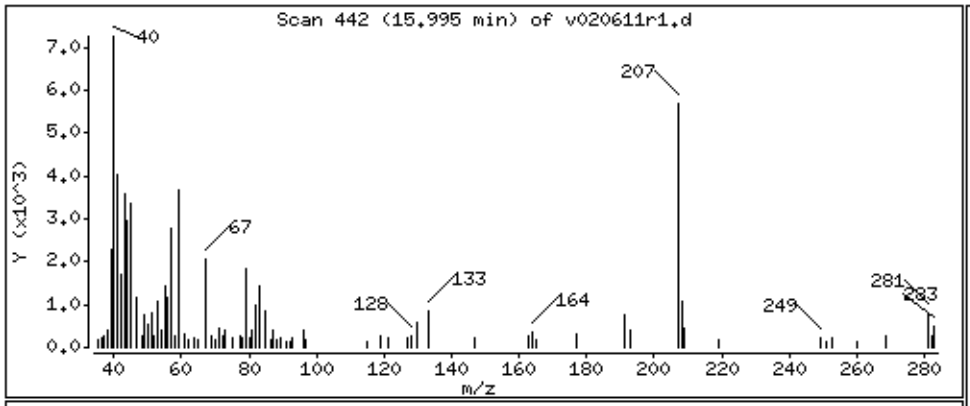
Operator: ef

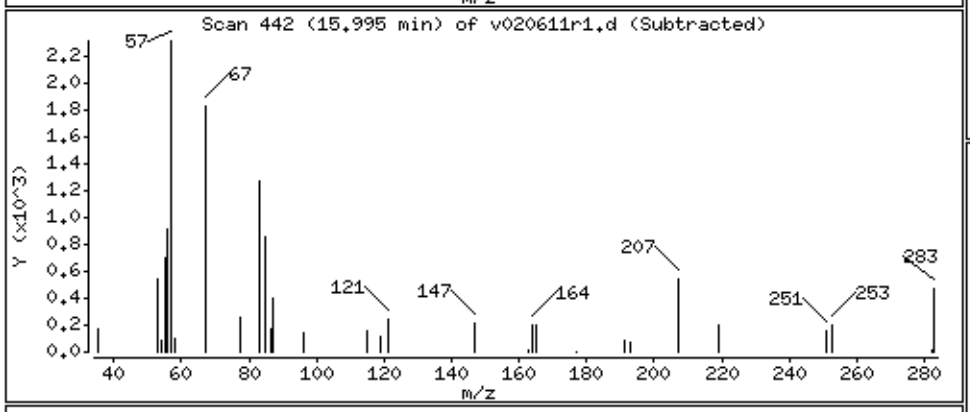
Column phase: RTx-624

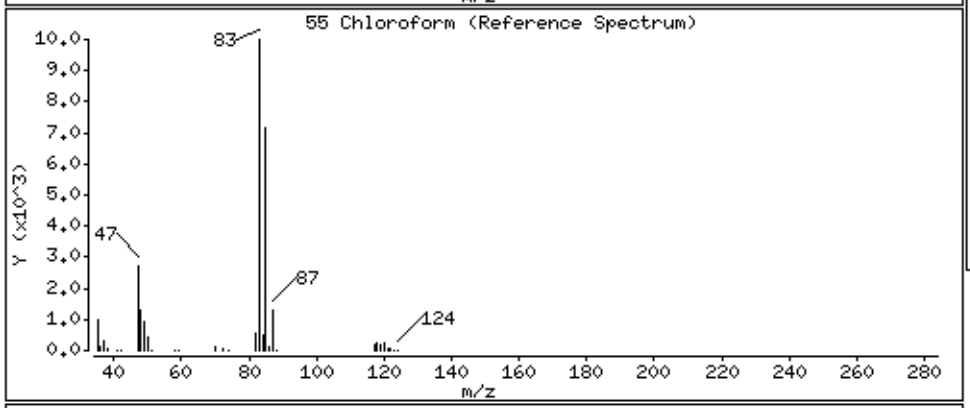
Column diameter: 0.32

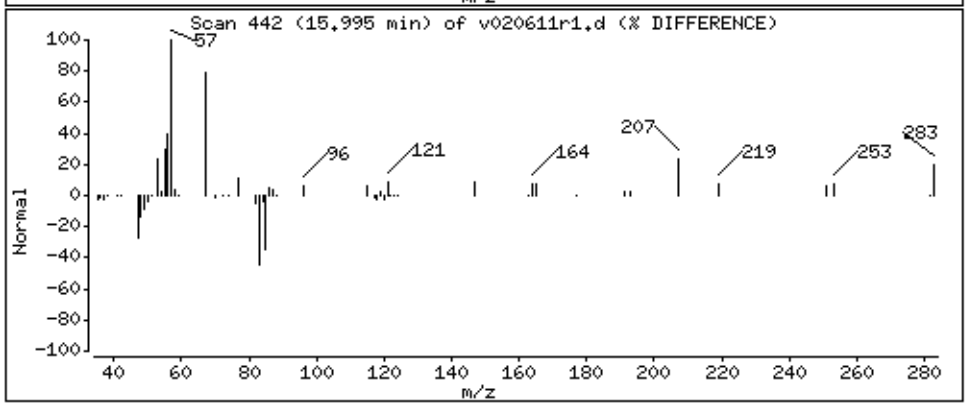
55 Chloroform

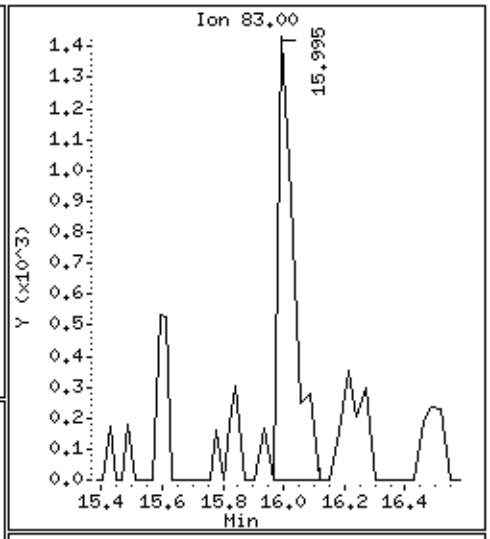
Concentration: 0.06082 PPBV

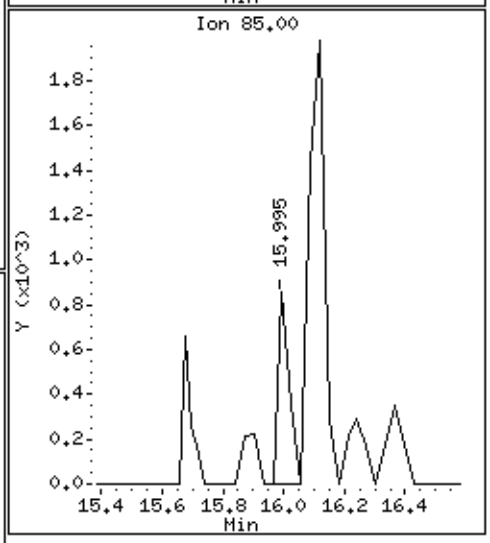












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

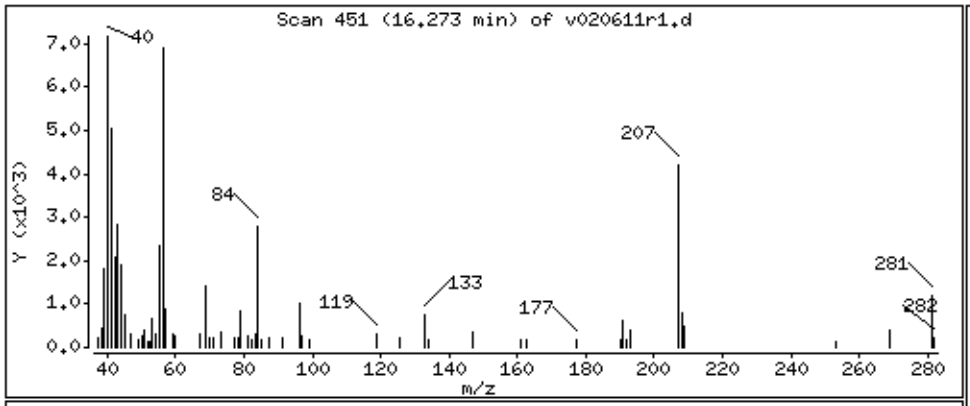
Operator: ef

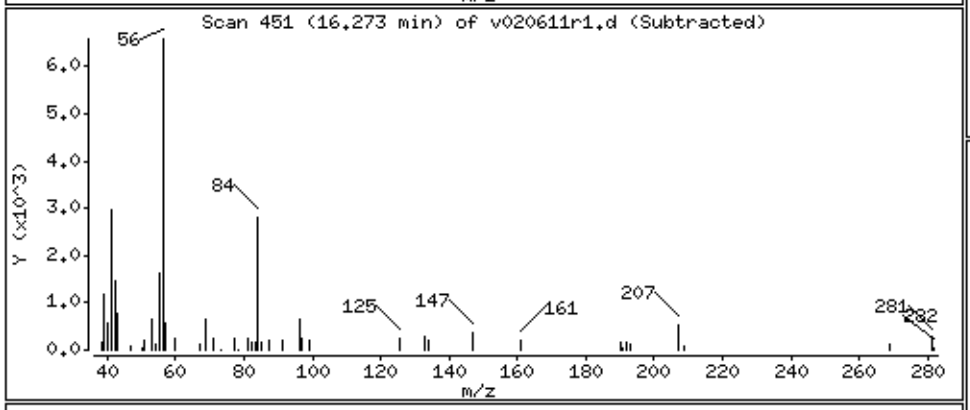
Column phase: RTx-624

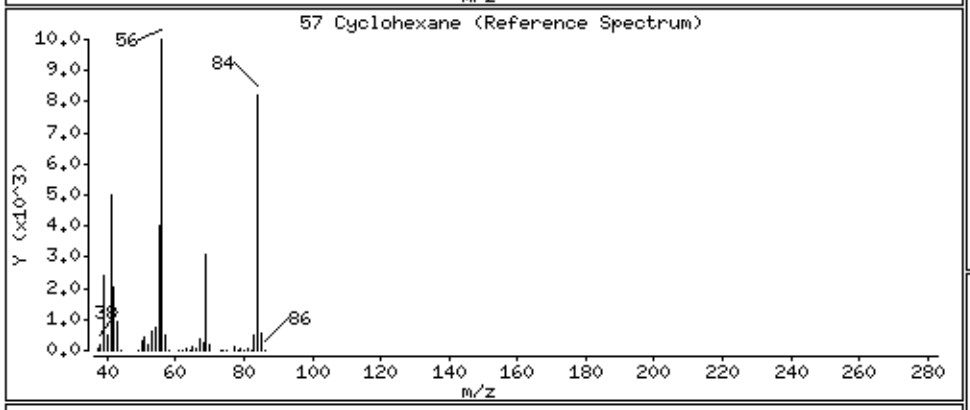
Column diameter: 0.32

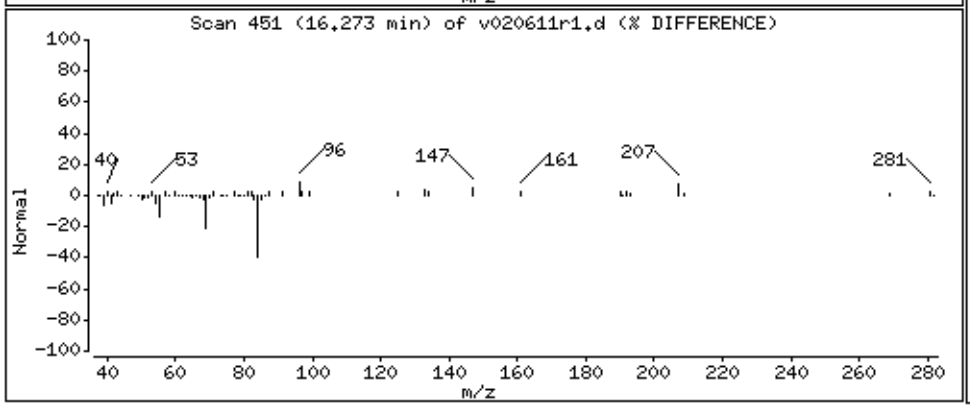
57 Cyclohexane

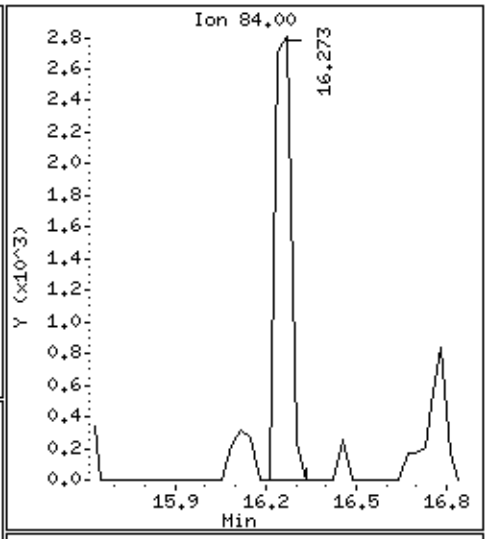
Concentration: 0.1790 PPBV

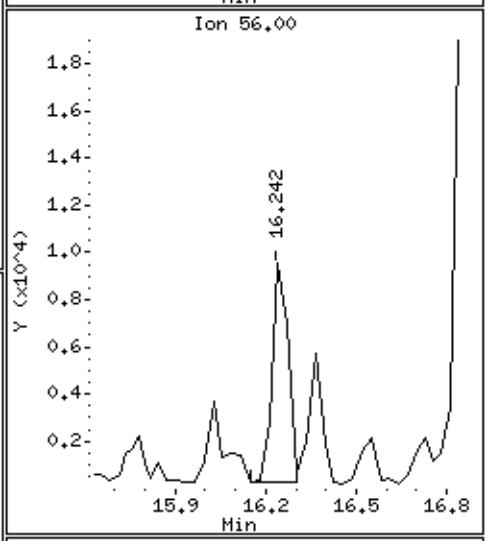


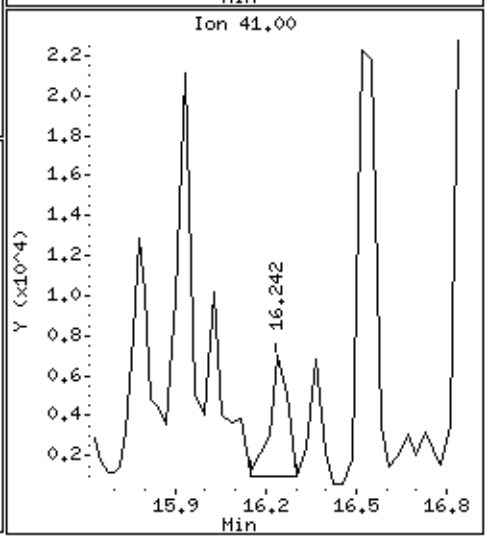












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

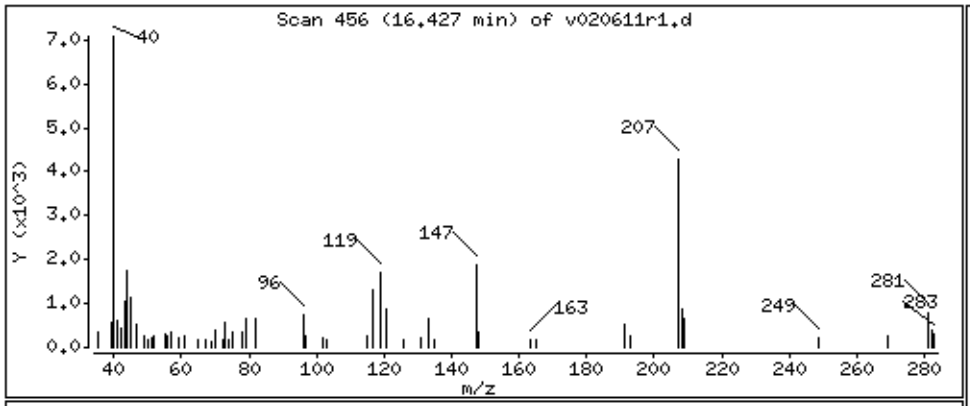
Operator: ef

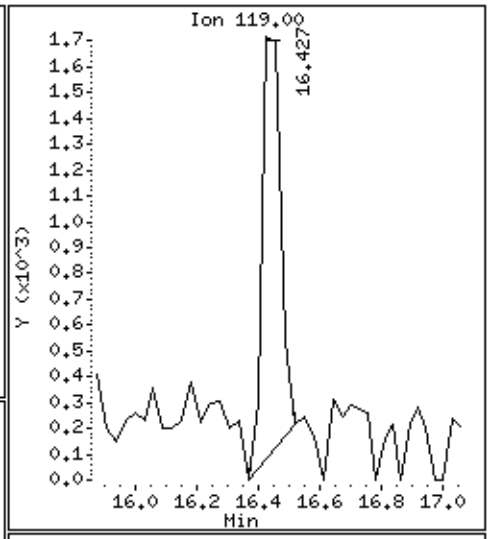
Column phase: RTx-624

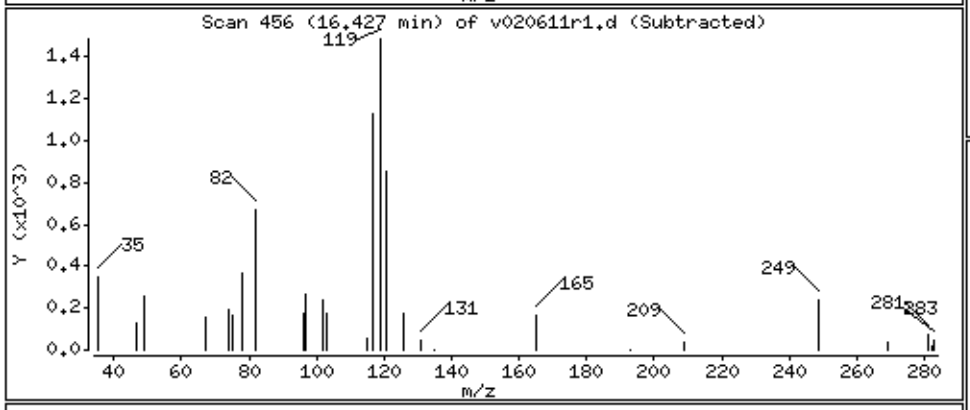
Column diameter: 0.32

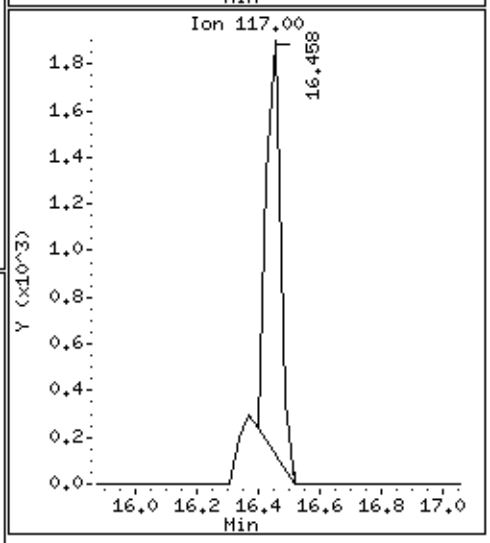
59 Carbon Tetrachloride

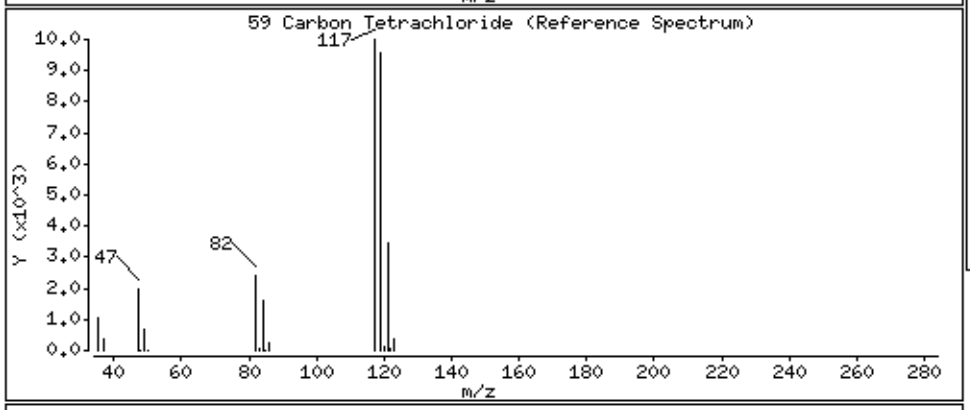
Concentration: 0.07982 PPBV

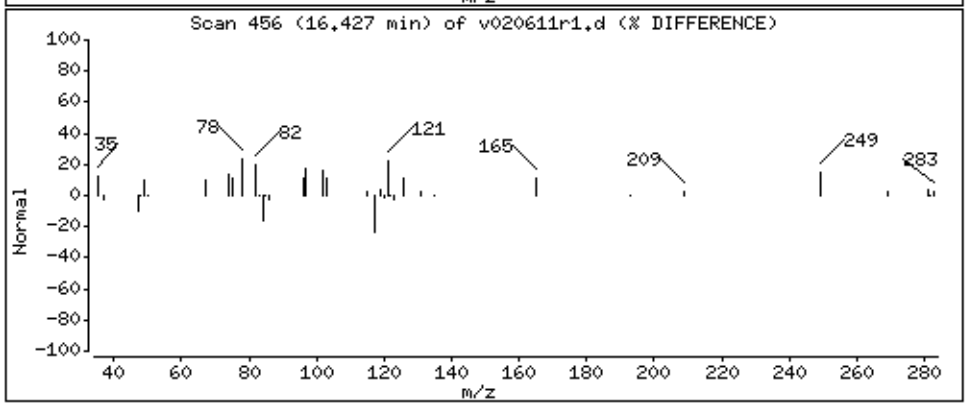












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

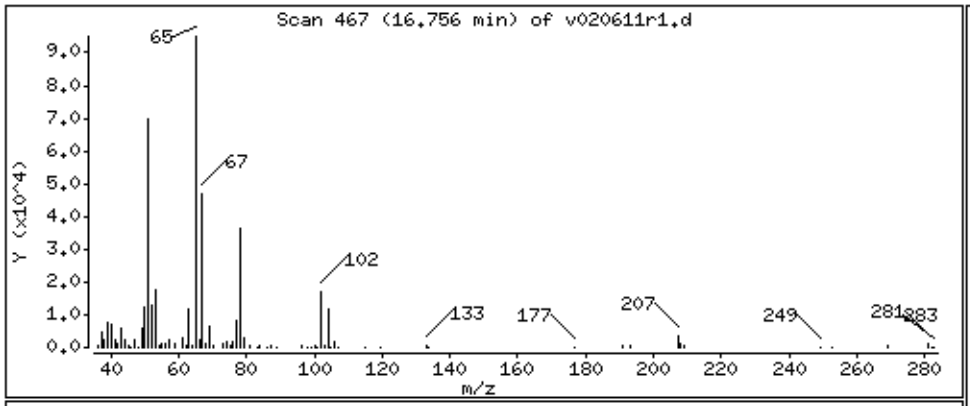
Operator: ef

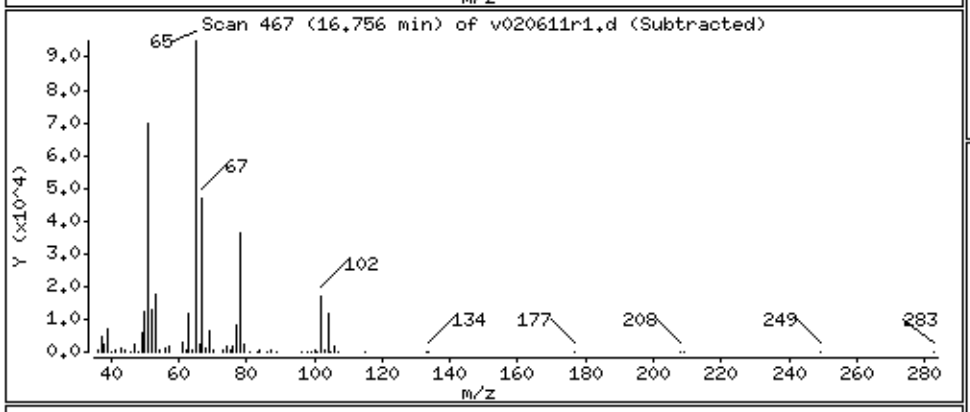
Column phase: RTx-624

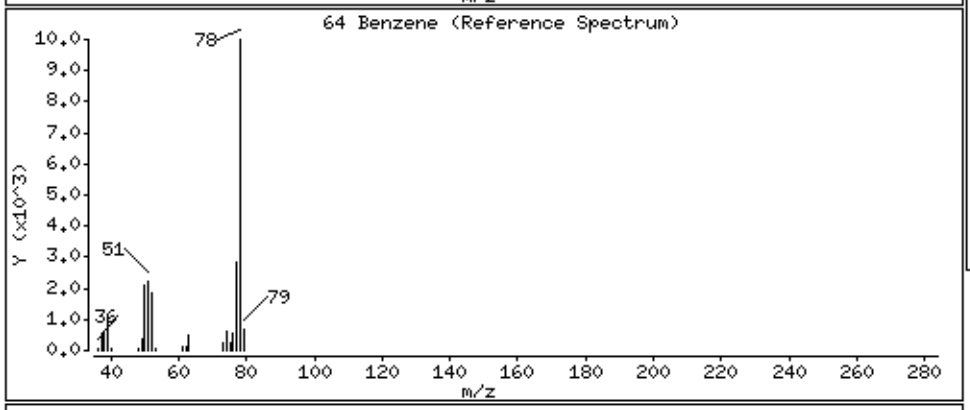
Column diameter: 0.32

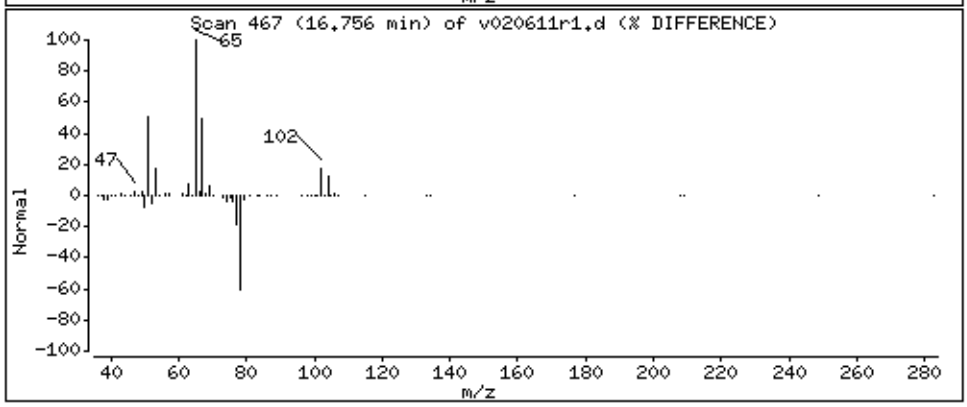
64 Benzene

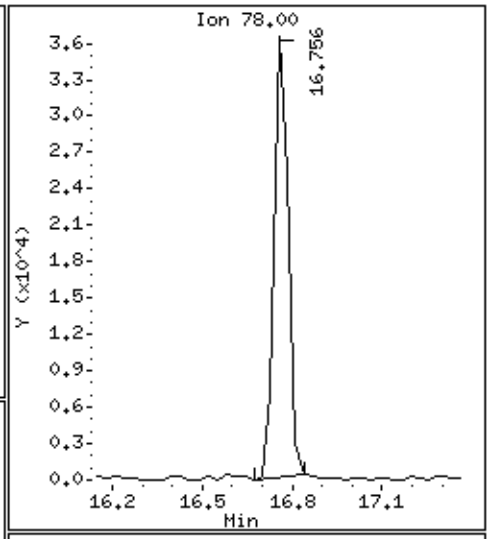
Concentration: 0.9202 PPBV

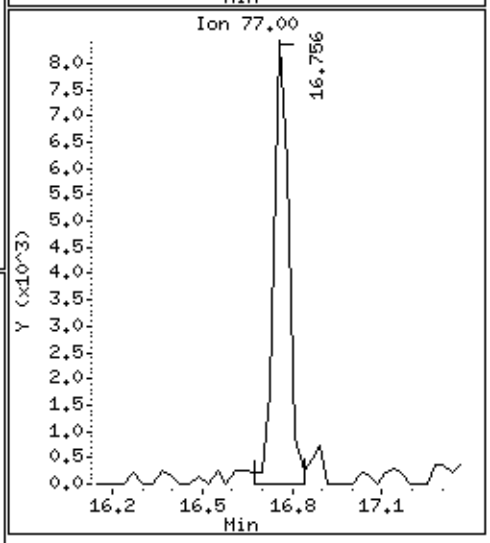












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

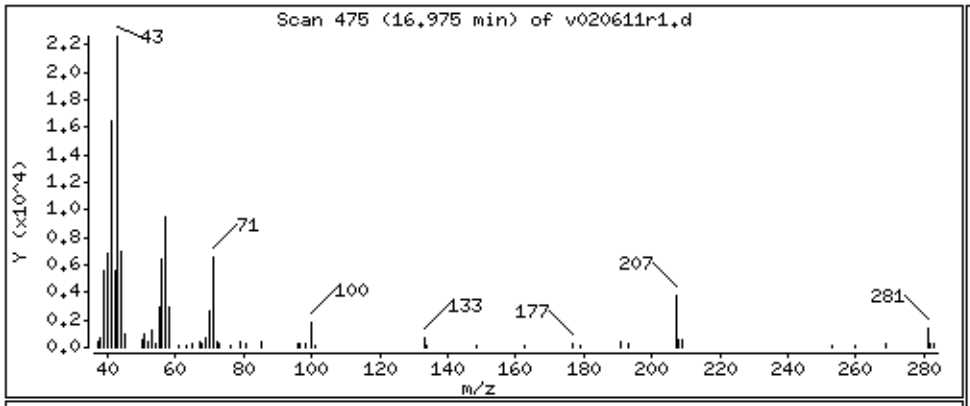
Operator: ef

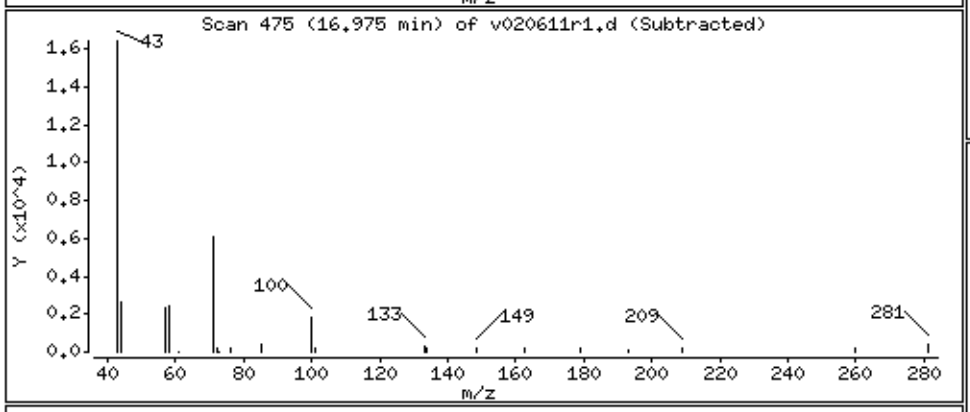
Column phase: RTx-624

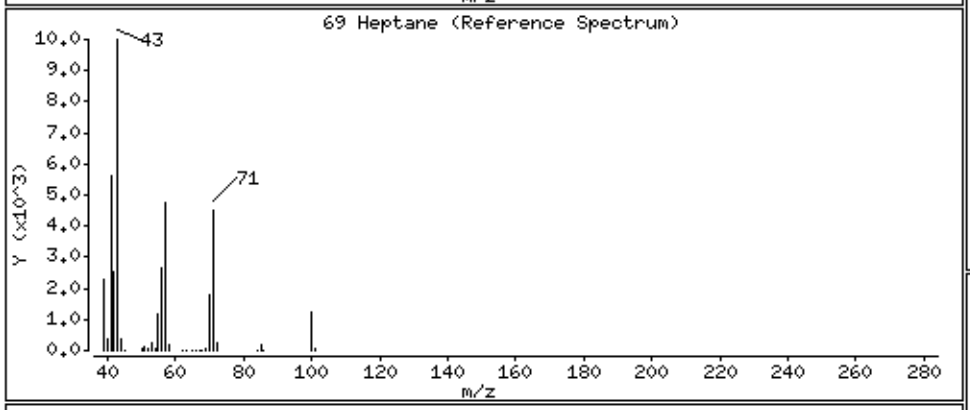
Column diameter: 0.32

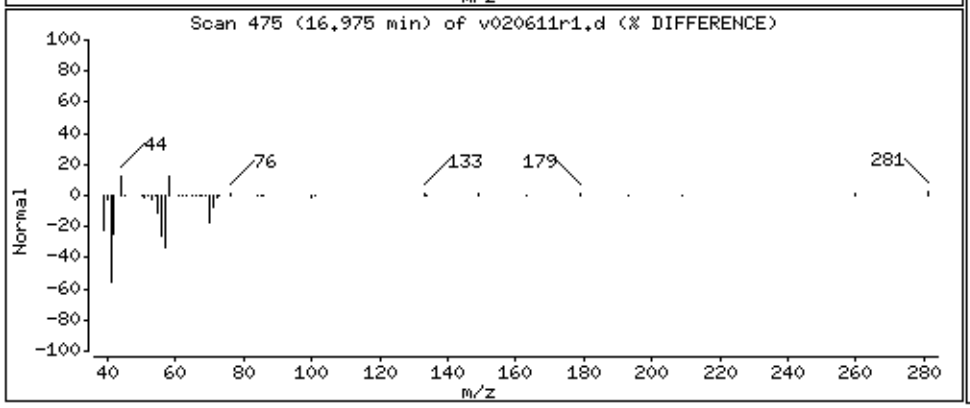
69 Heptane

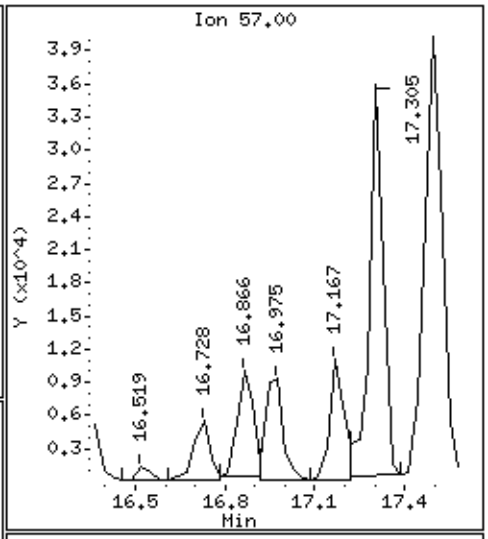
Concentration: 0.6368 PPBV

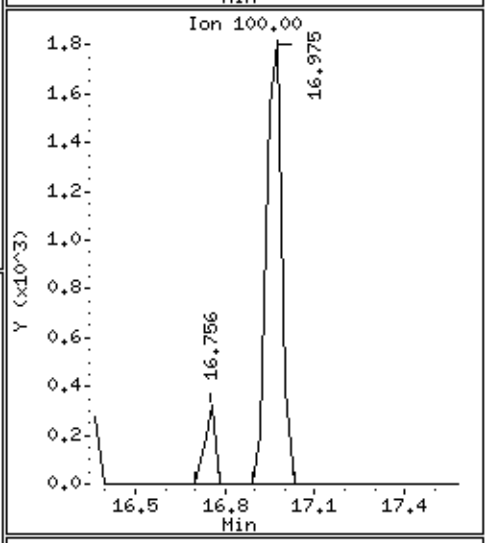


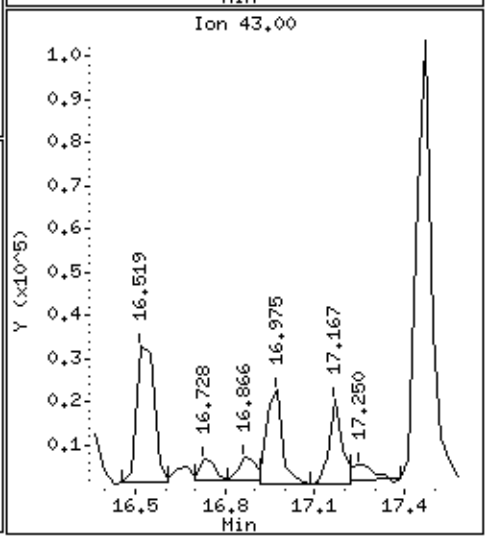












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

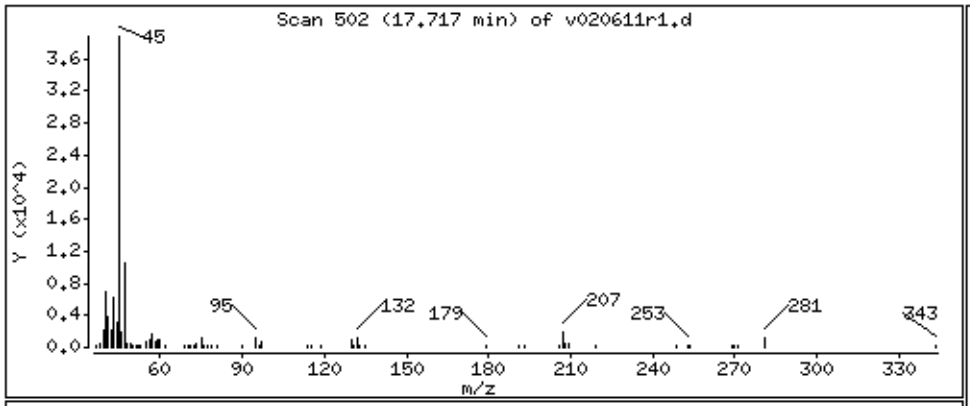
Operator: ef

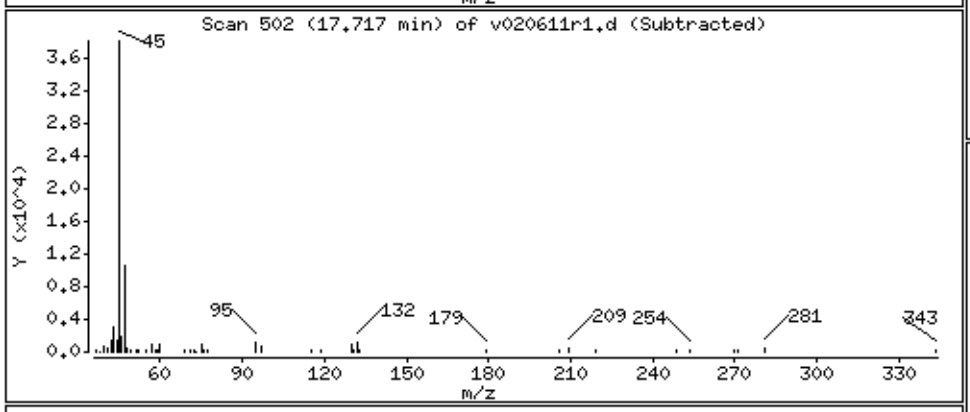
Column phase: RTx-624

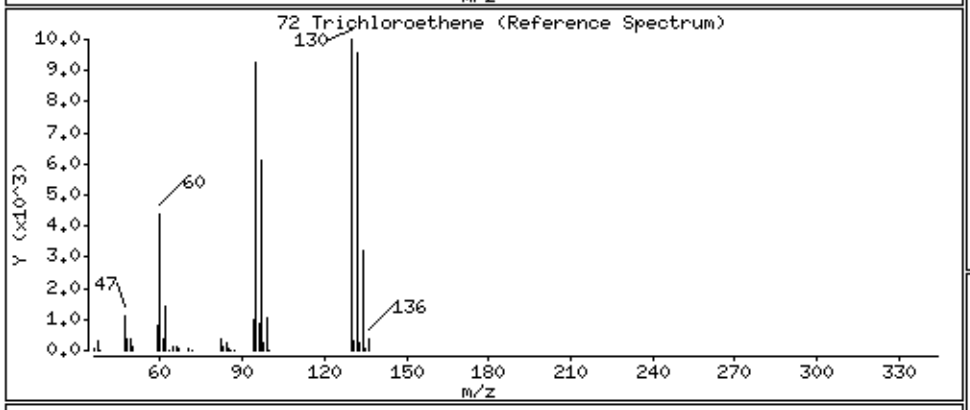
Column diameter: 0.32

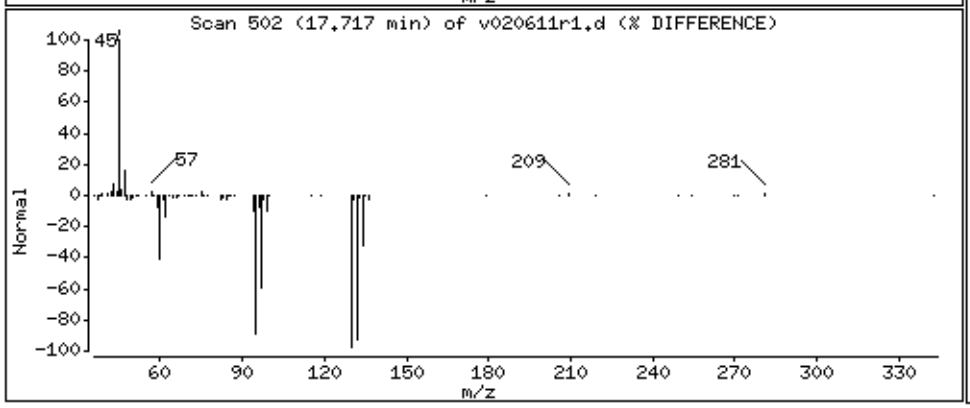
72 Trichloroethene

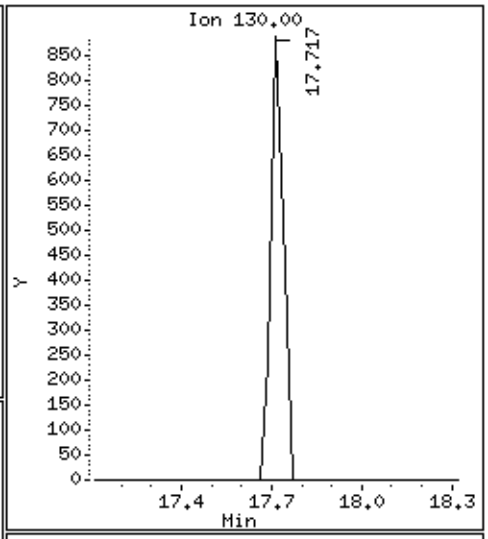
Concentration: 0.03903 PPBV

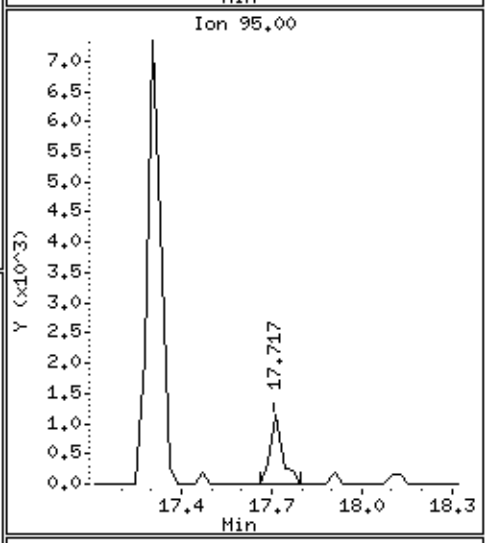


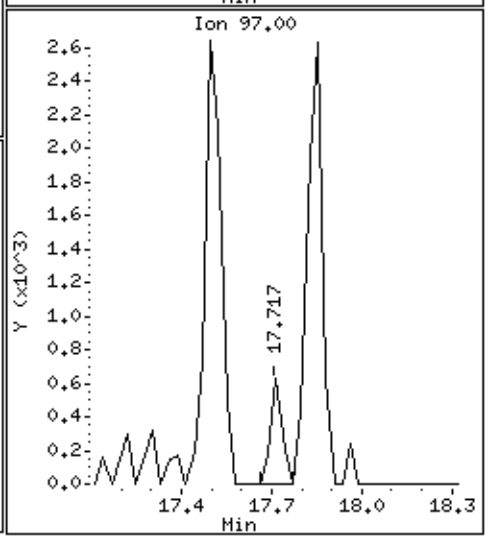












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

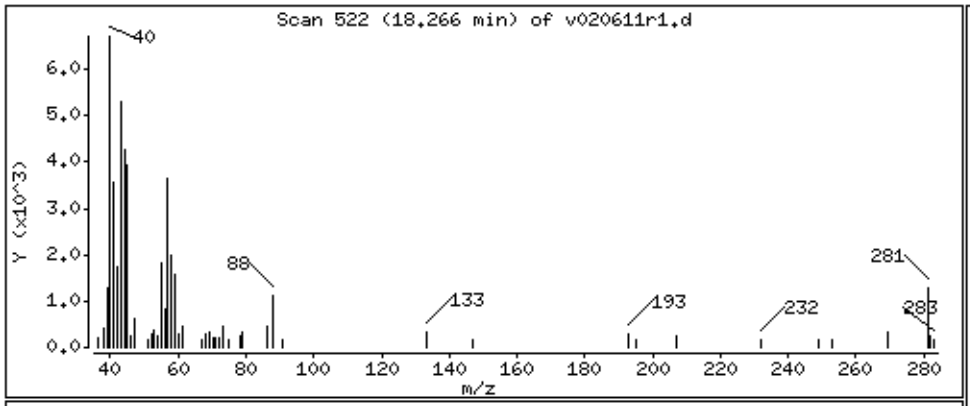
Operator: ef

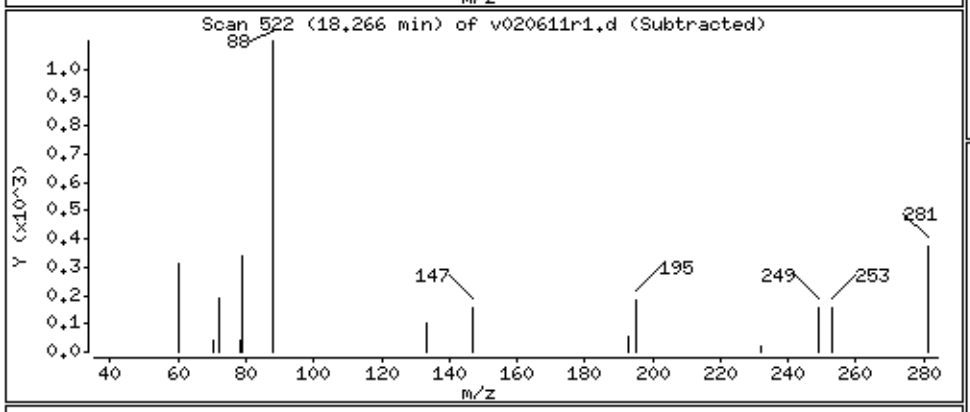
Column phase: RTx-624

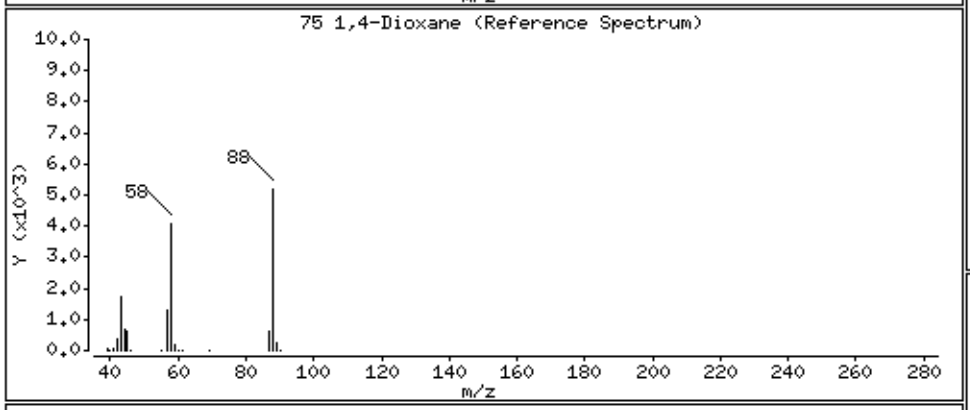
Column diameter: 0.32

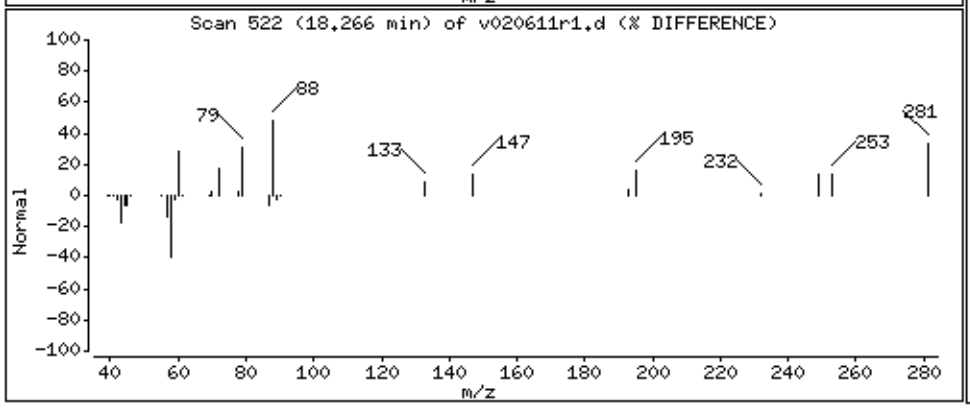
75 1,4-Dioxane

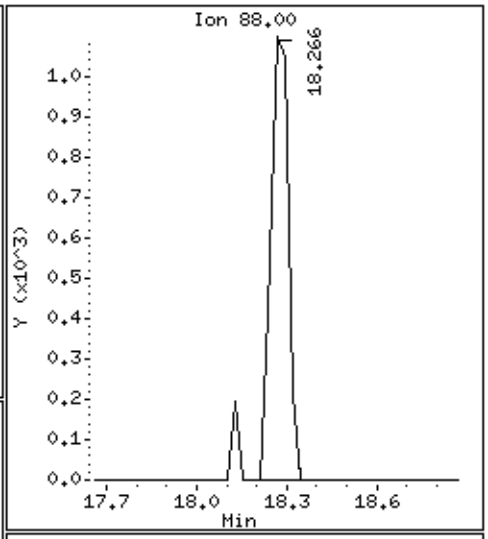
Concentration: 0.1253 PPBV

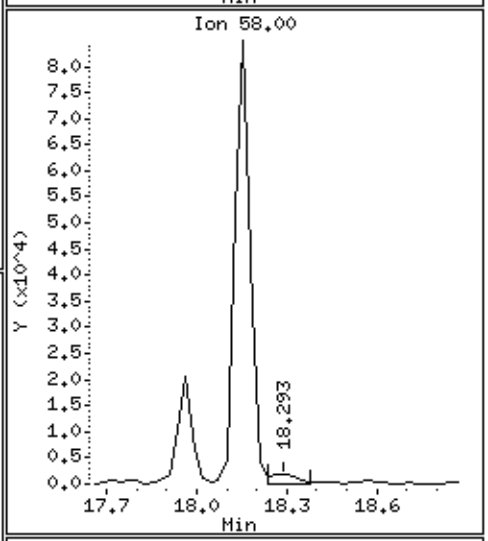


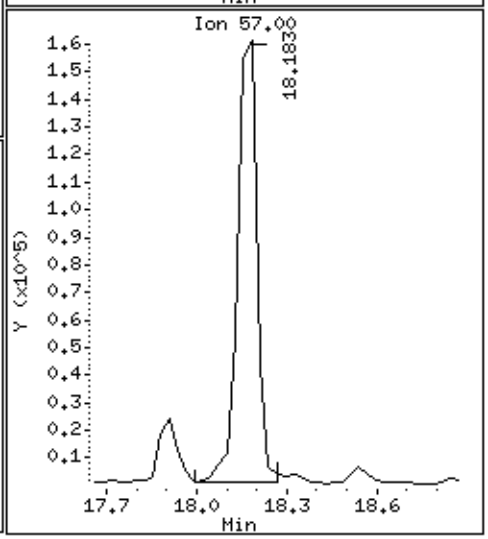












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

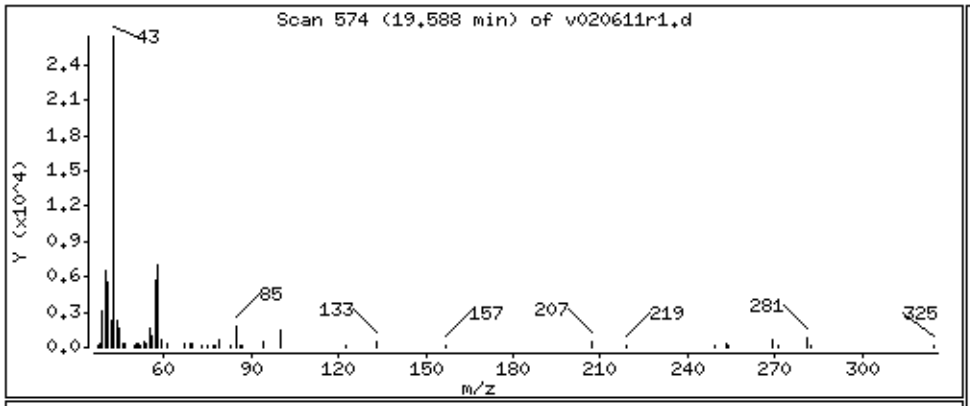
Operator: ef

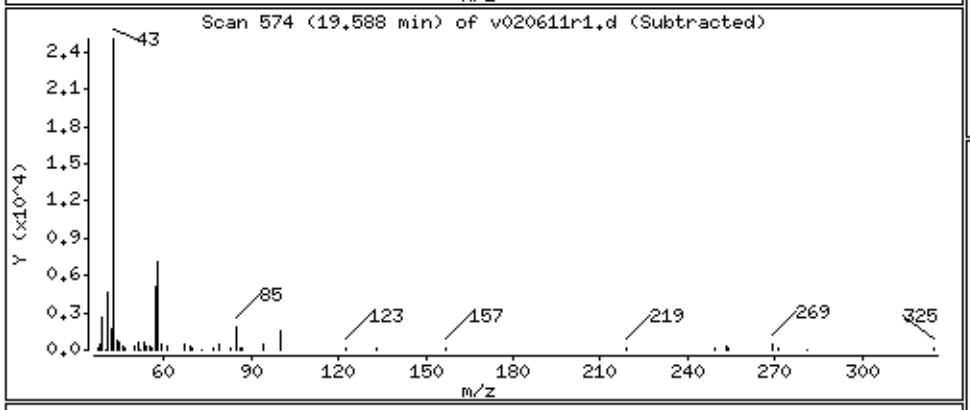
Column phase: RTx-624

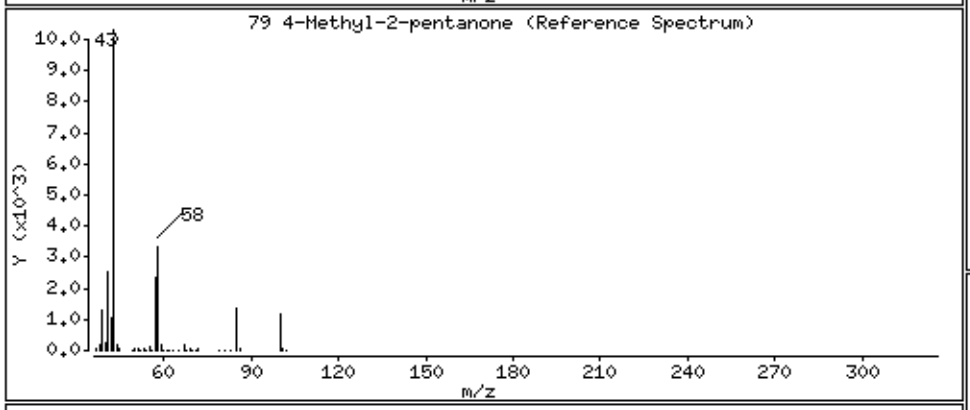
Column diameter: 0.32

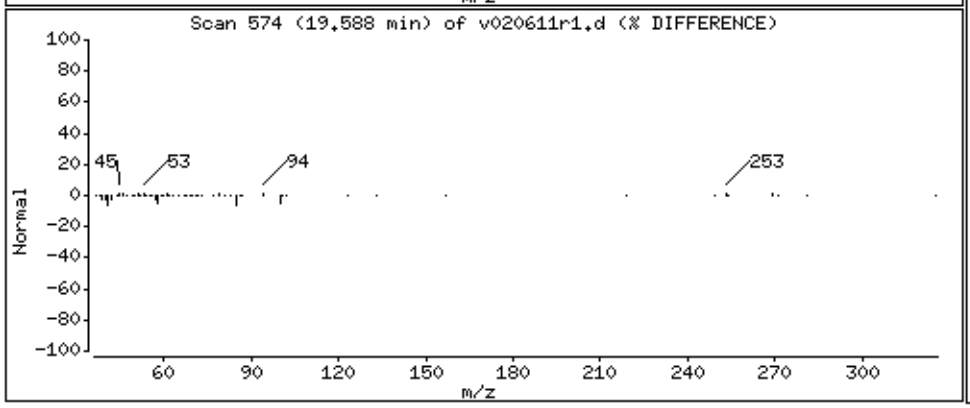
79 4-Methyl-2-pentanone

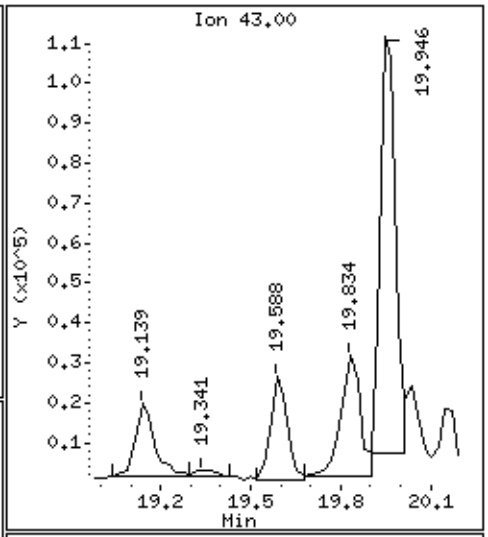
Concentration: 0.5622 PPBV

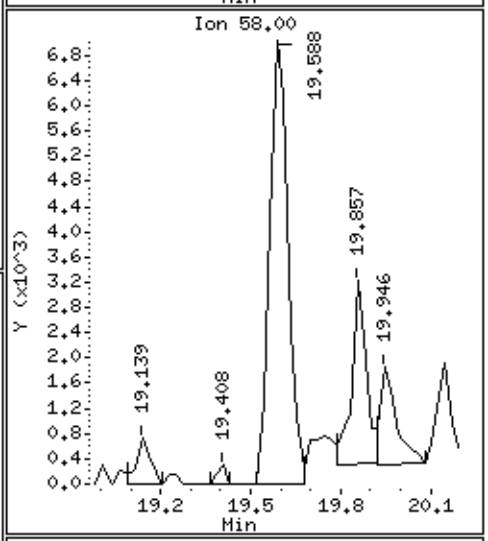


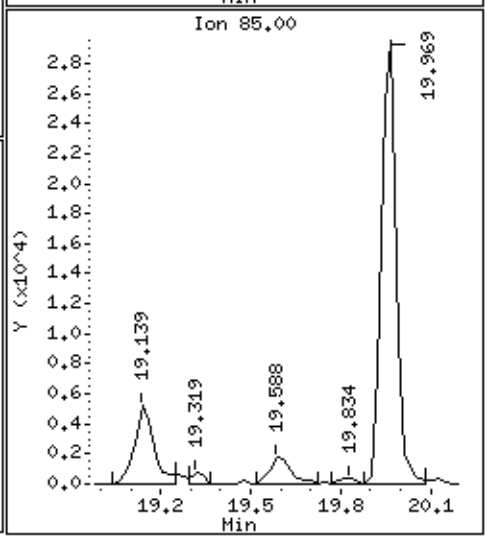












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

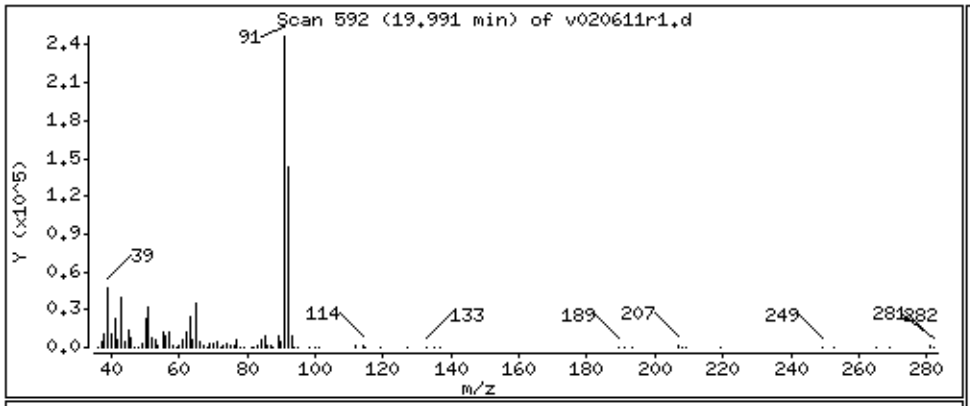
Operator: ef

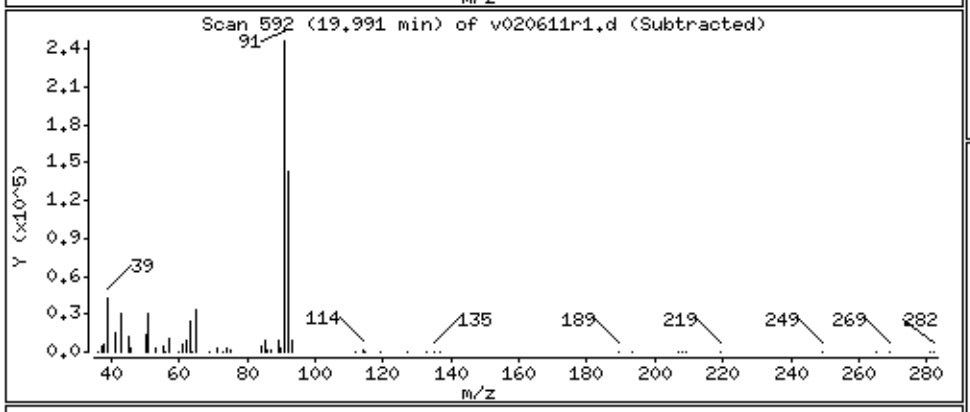
Column phase: RTx-624

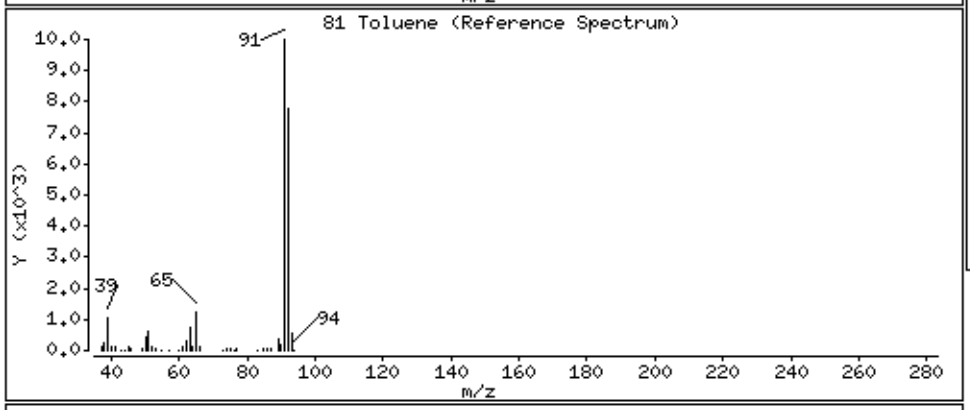
Column diameter: 0.32

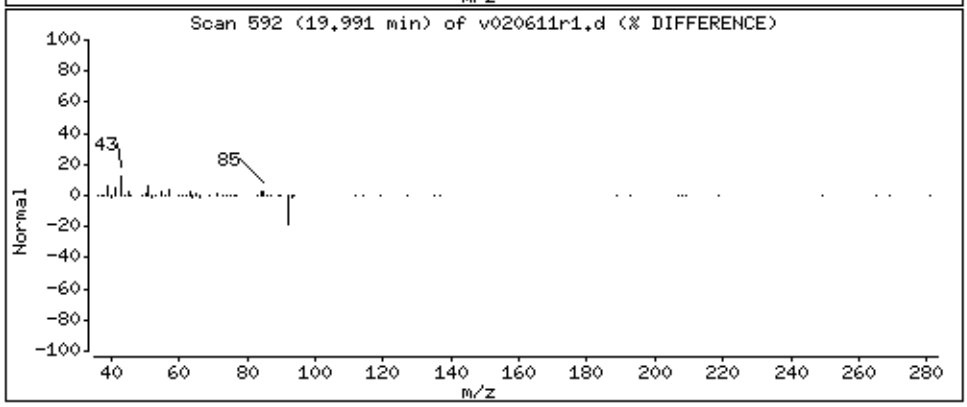
81 Toluene

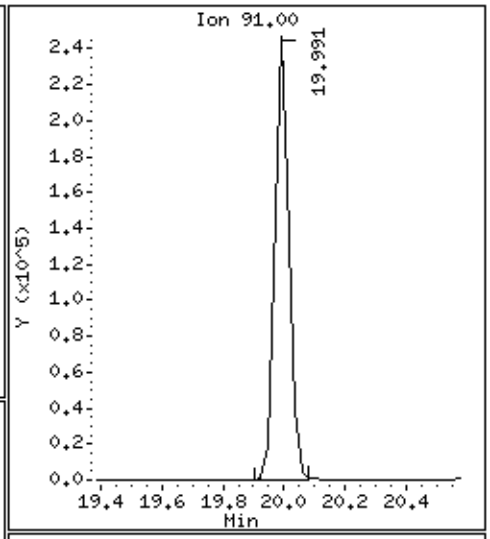
Concentration: 5.471 PPBV

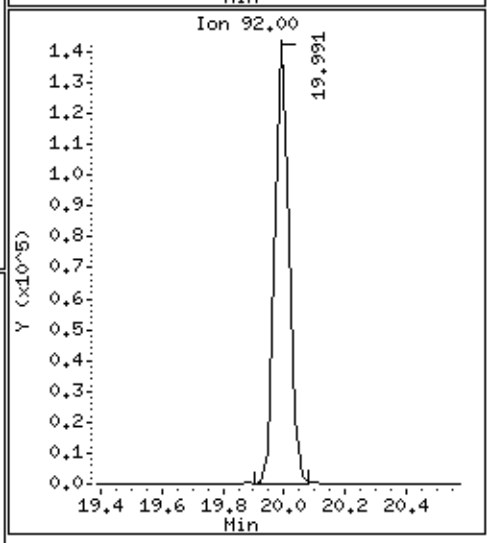












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

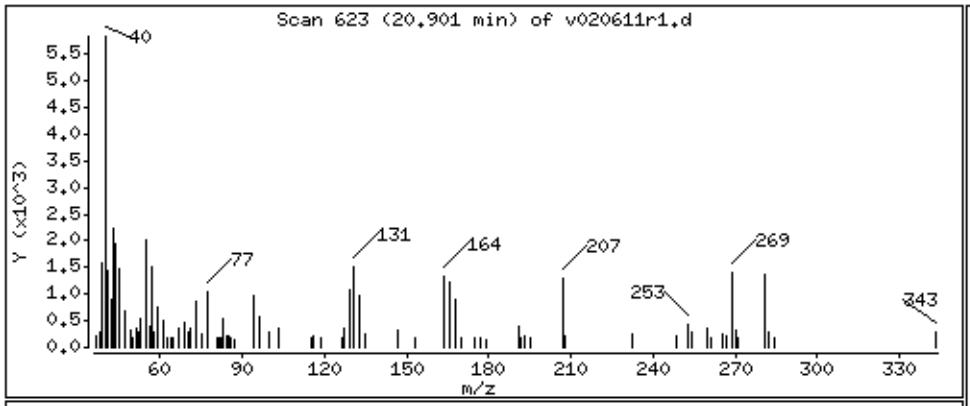
Operator: ef

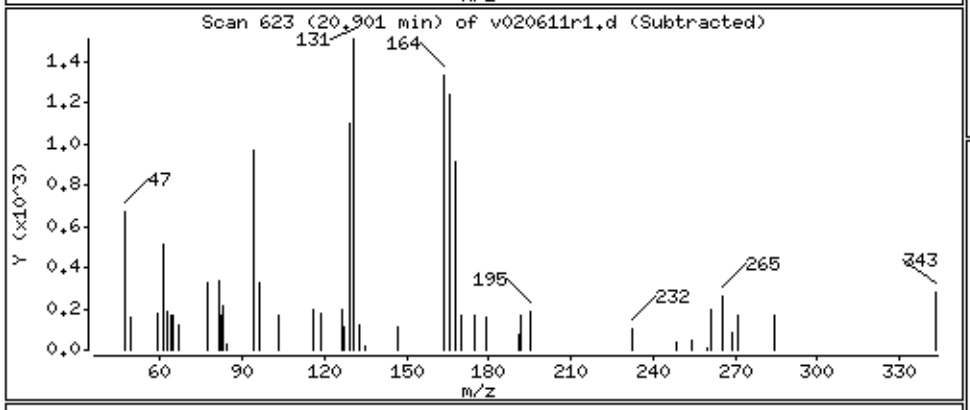
Column phase: RTx-624

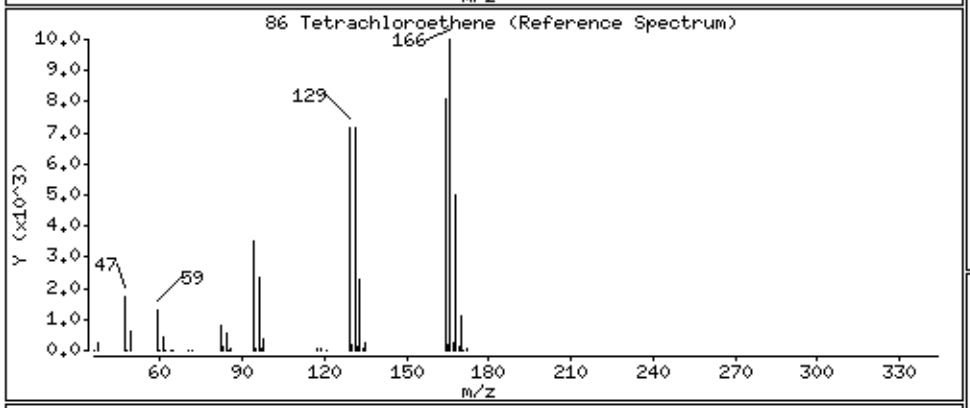
Column diameter: 0.32

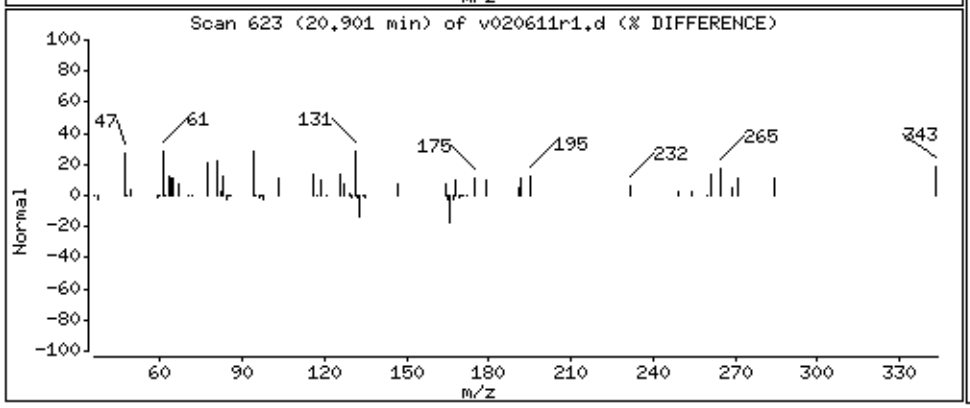
86 Tetrachloroethene

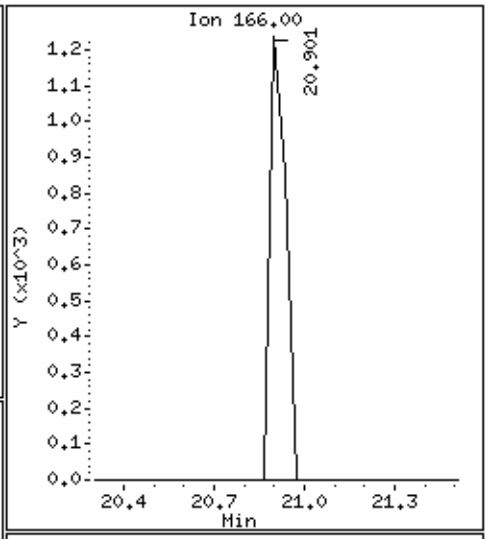
Concentration: 0.05402 PPBV

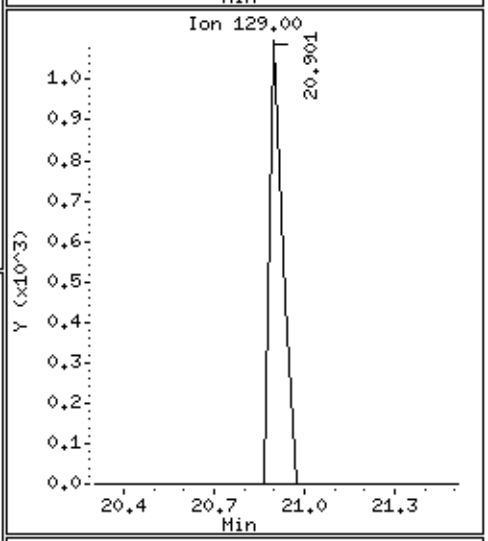


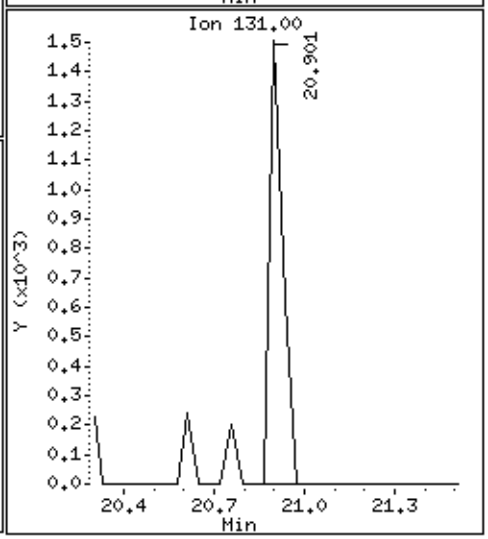












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

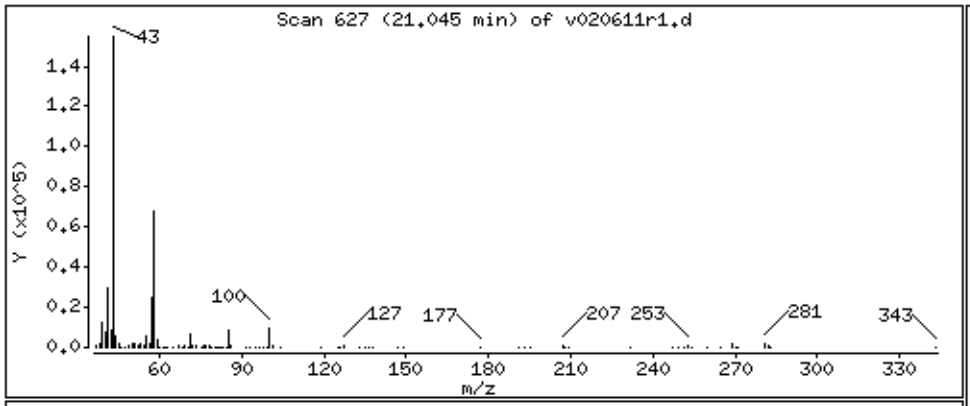
Operator: ef

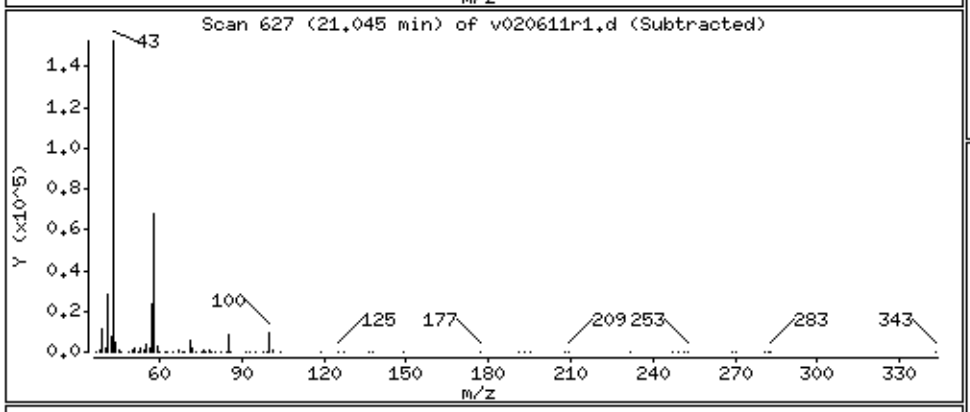
Column phase: RTx-624

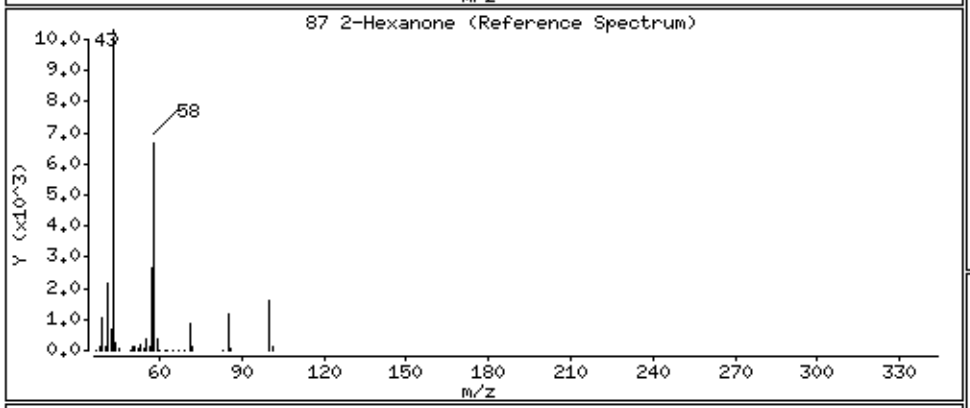
Column diameter: 0.32

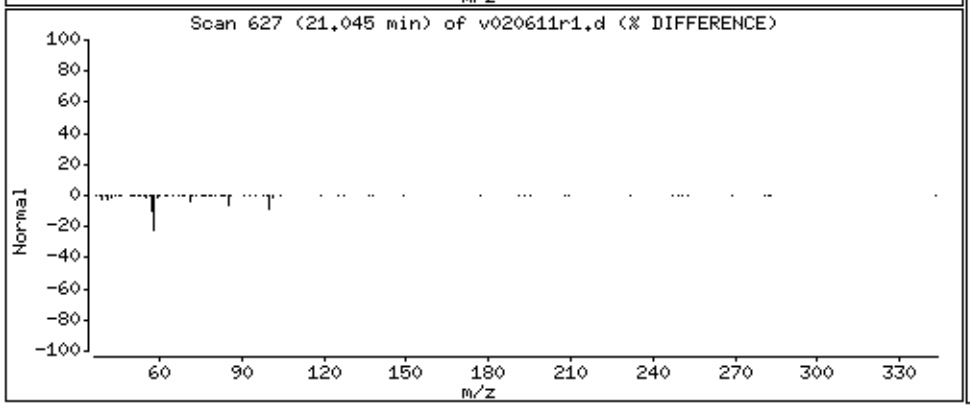
87 2-Hexanone

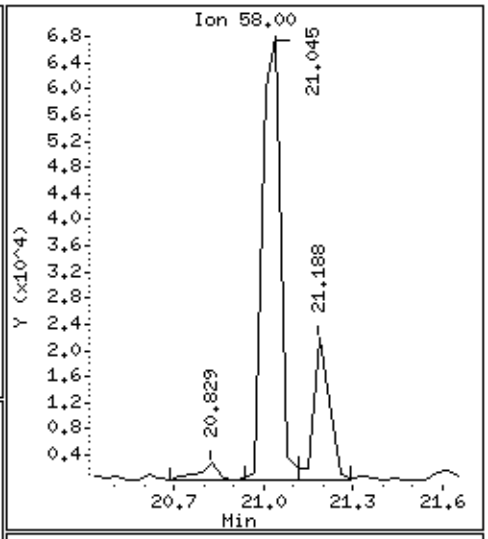
Concentration: 4.006 PPBV

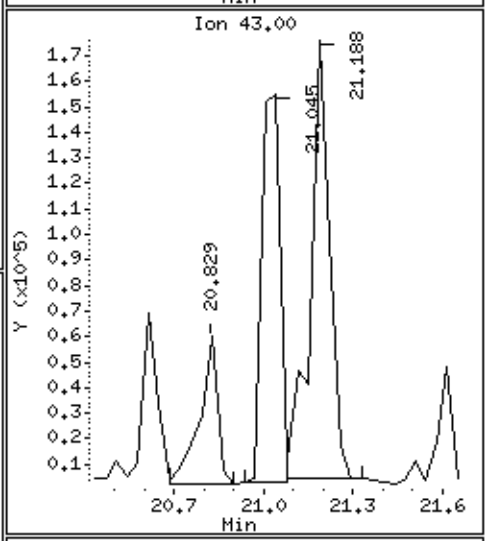


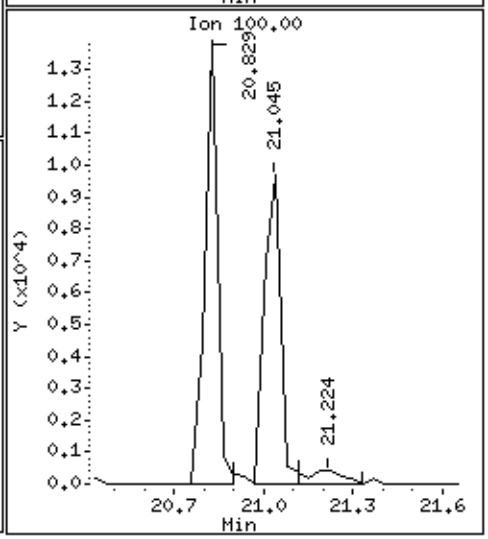












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

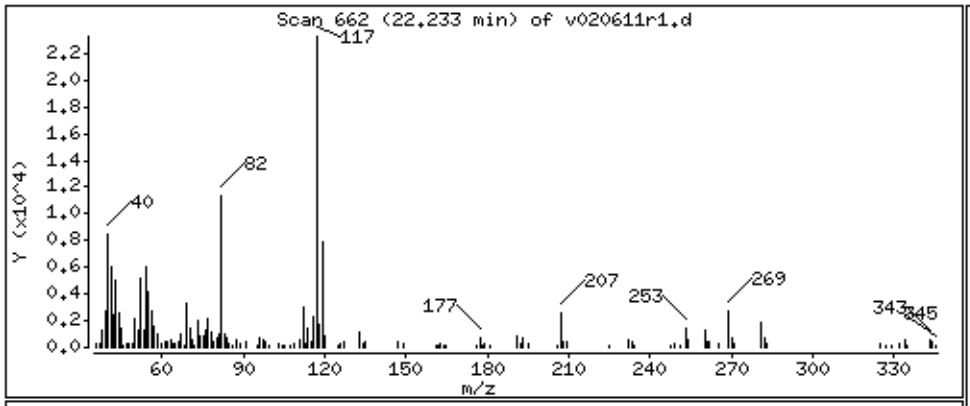
Operator: ef

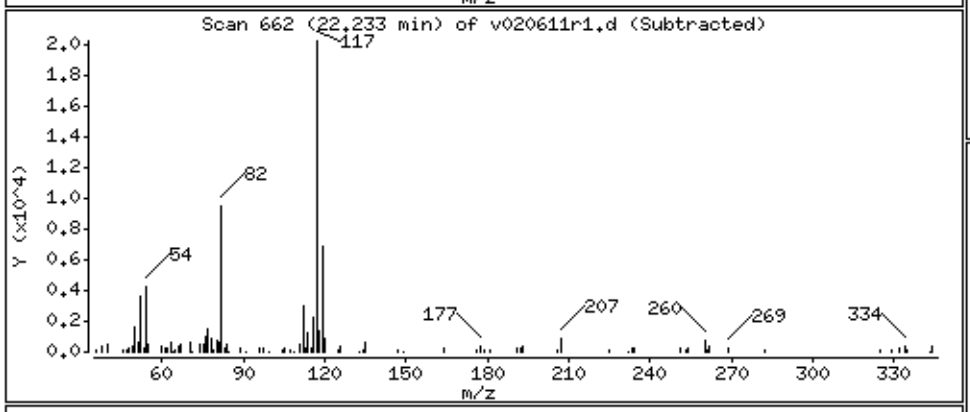
Column phase: RTx-624

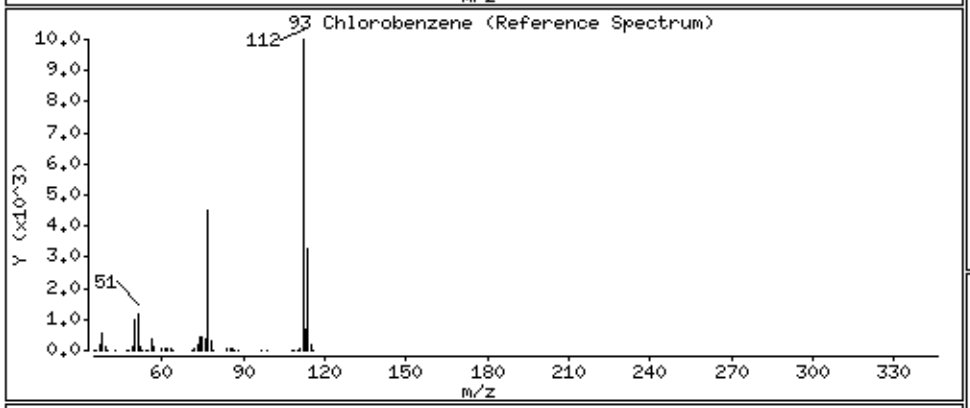
Column diameter: 0.32

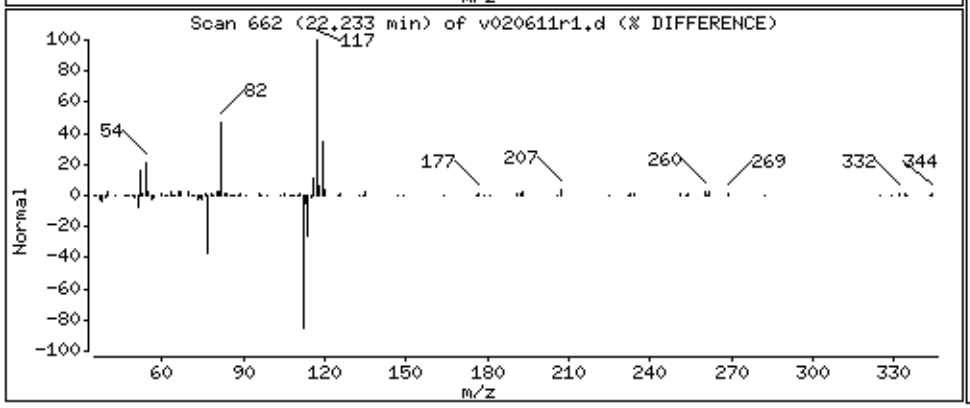
93 Chlorobenzene

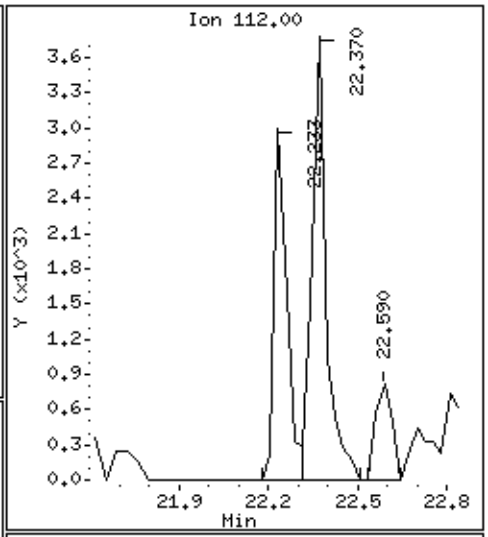
Concentration: 0.06954 PPBV

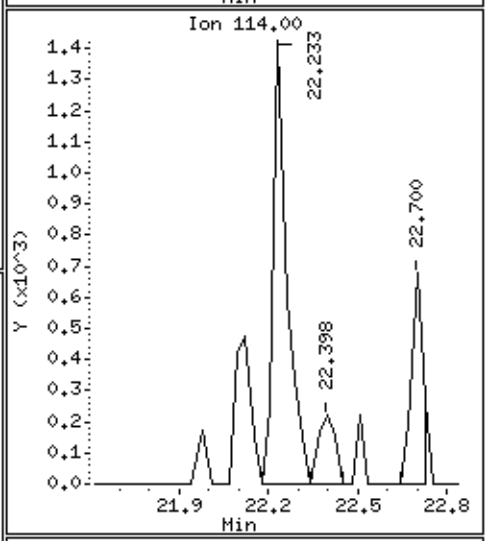


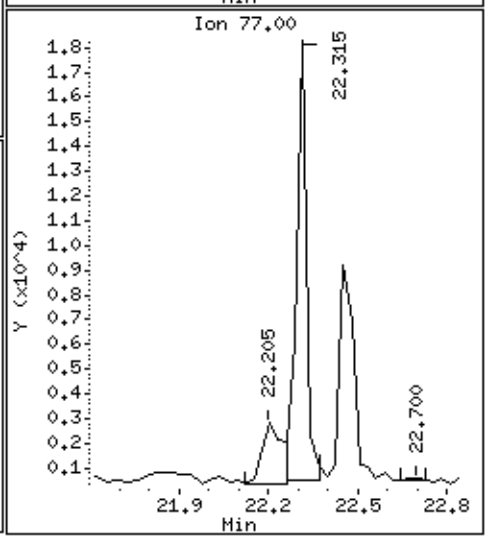












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

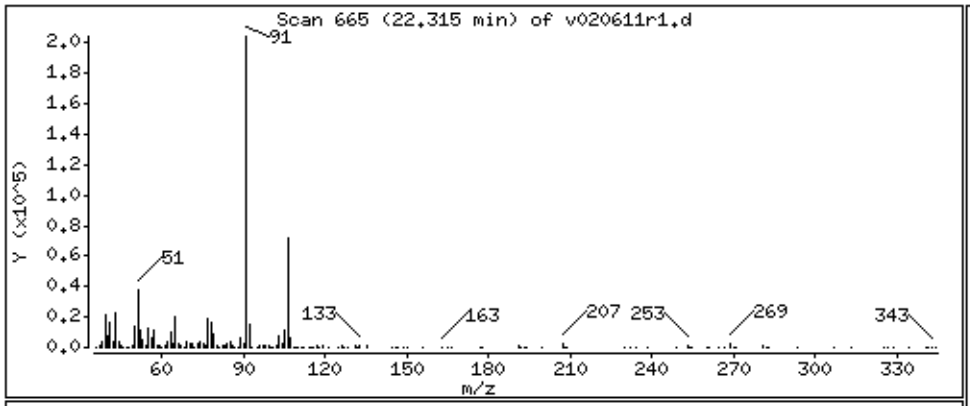
Operator: ef

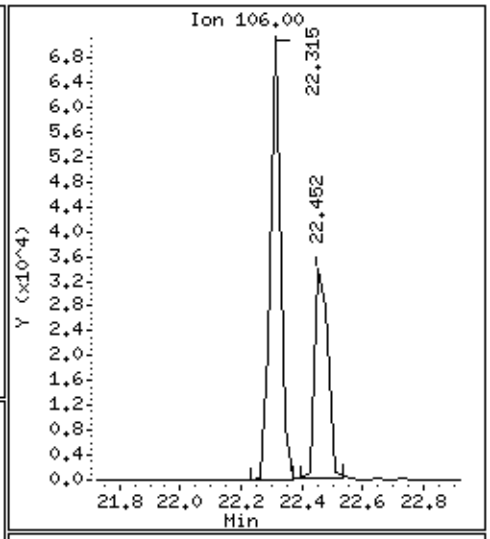
Column phase: RTx-624

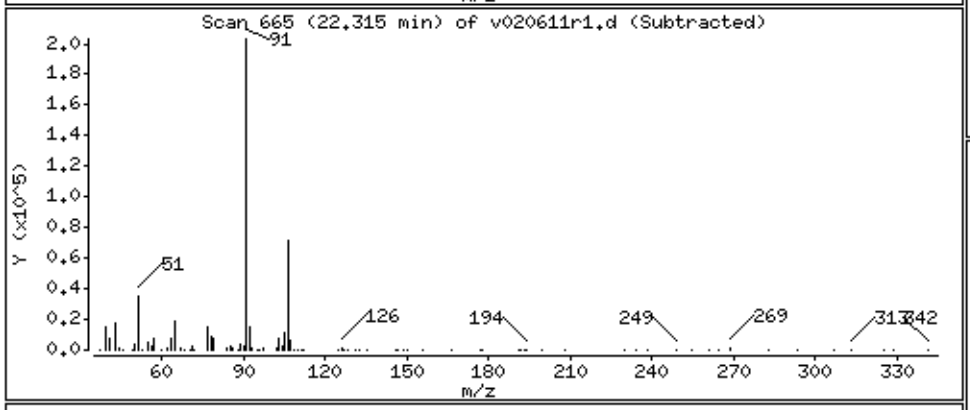
Column diameter: 0.32

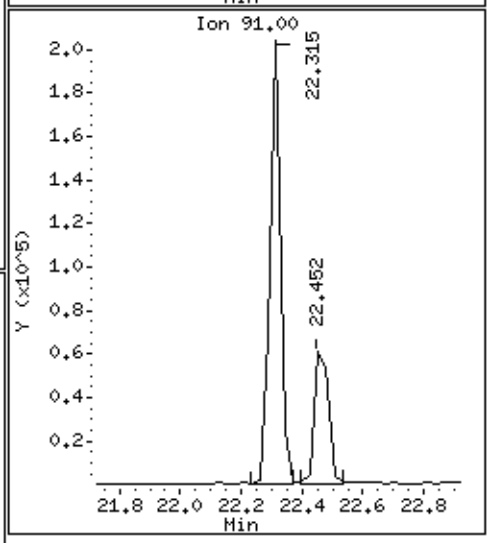
95 Ethyl Benzene

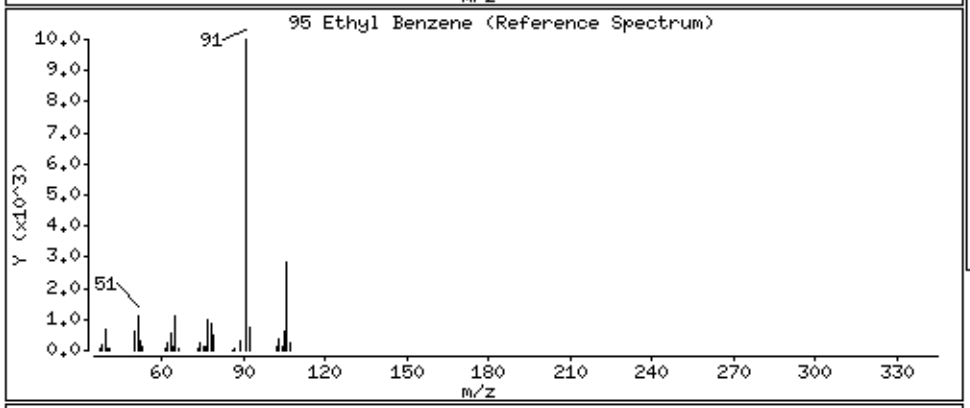
Concentration: 2.784 PPBV

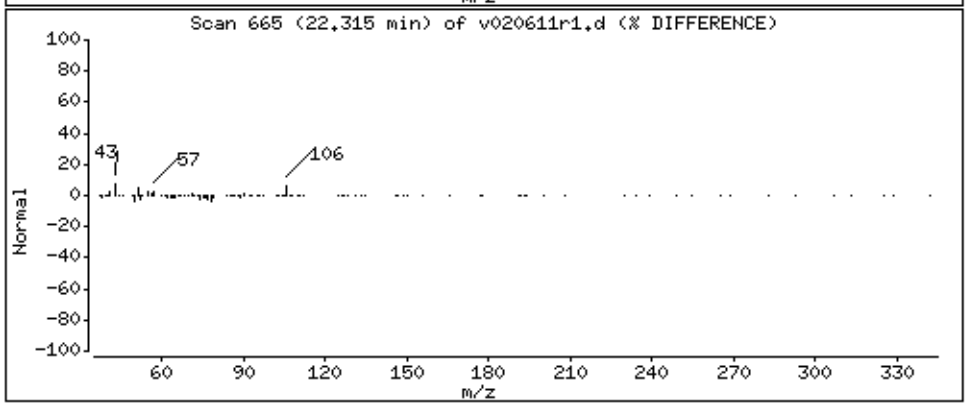












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

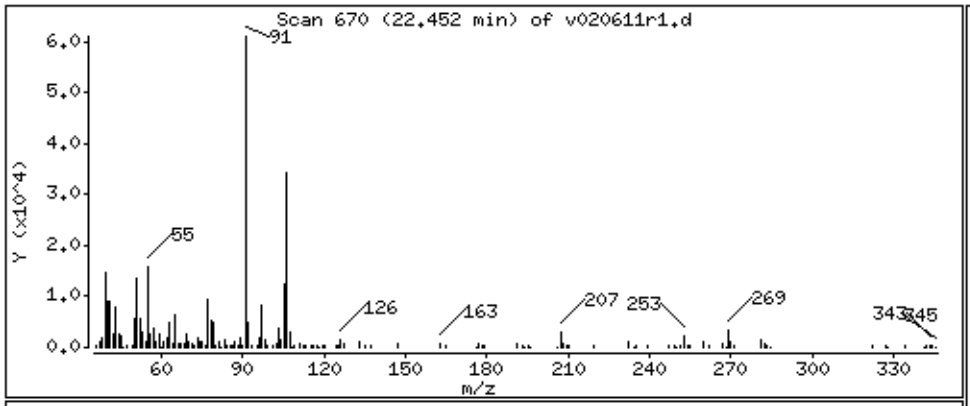
Operator: ef

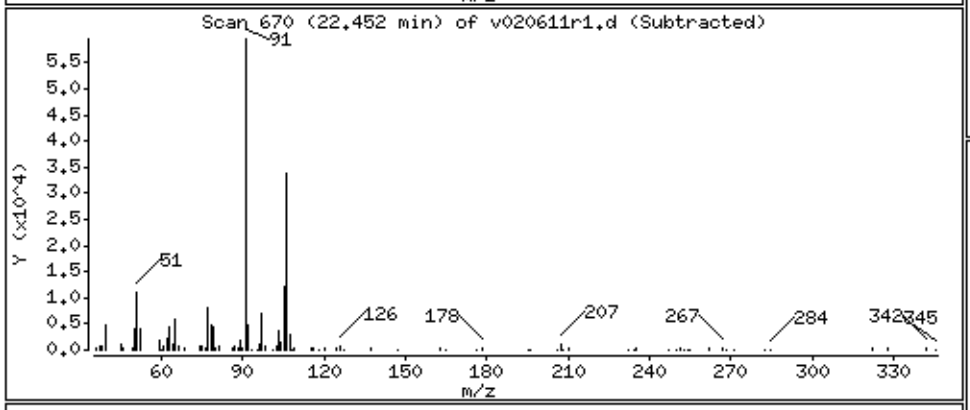
Column phase: RTx-624

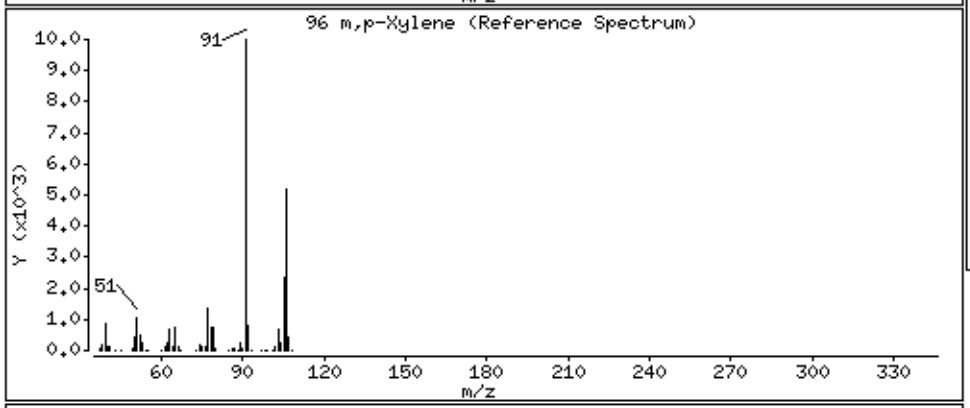
Column diameter: 0.32

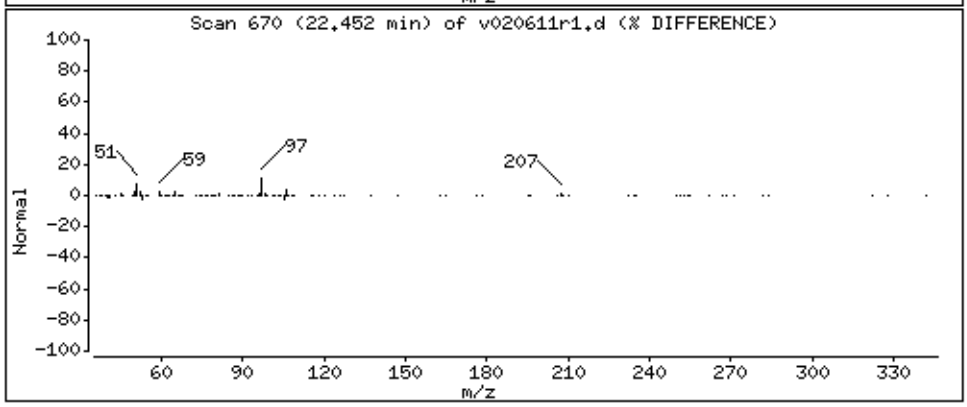
96 m,p-Xylene

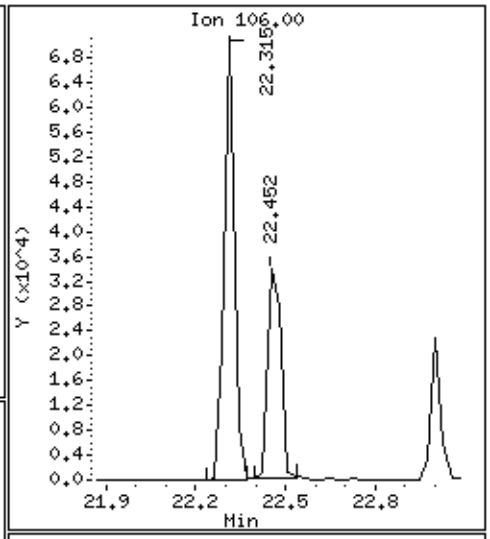
Concentration: 1.732 PPBV

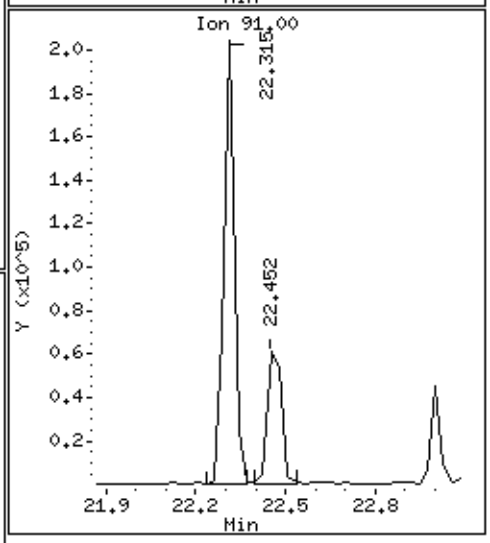












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

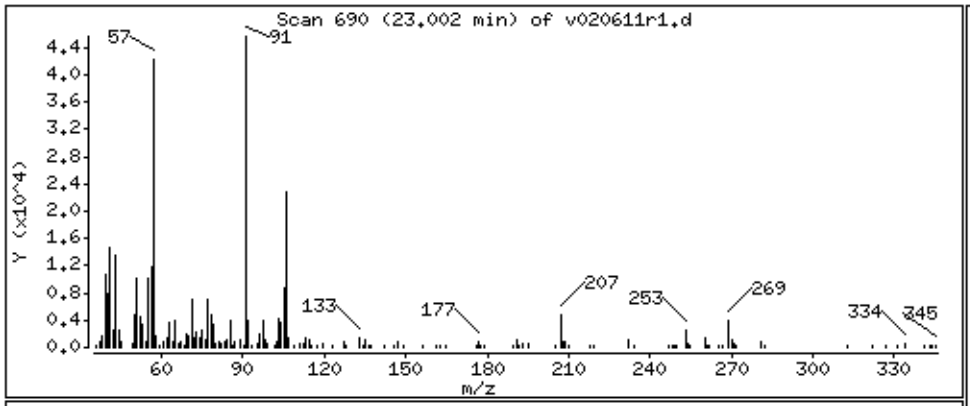
Operator: ef

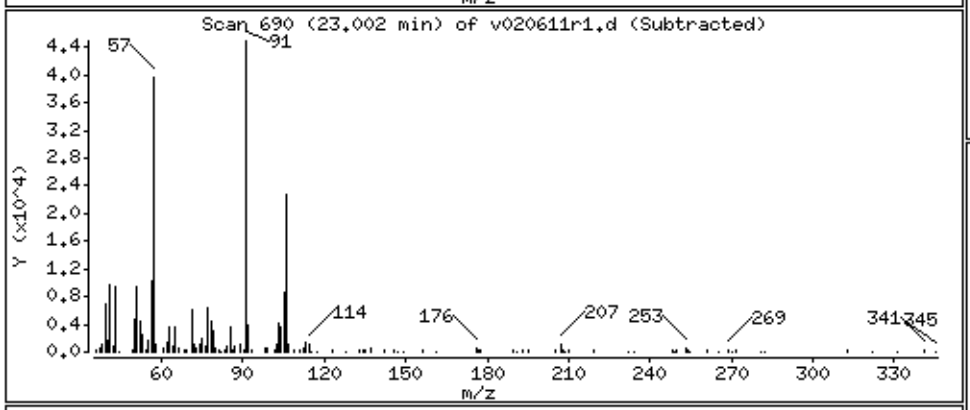
Column phase: RTx-624

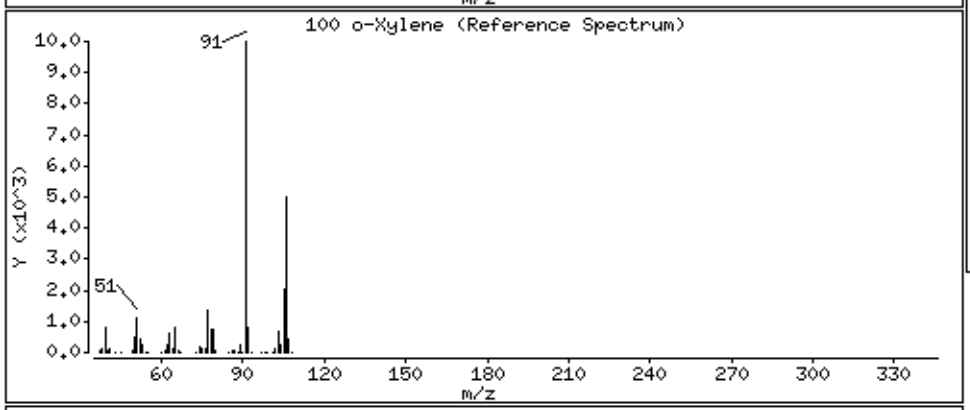
Column diameter: 0.32

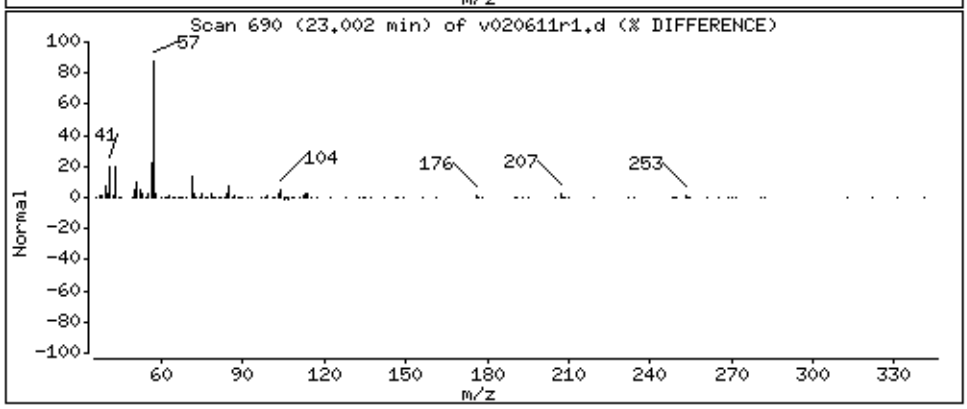
100 o-Xylene

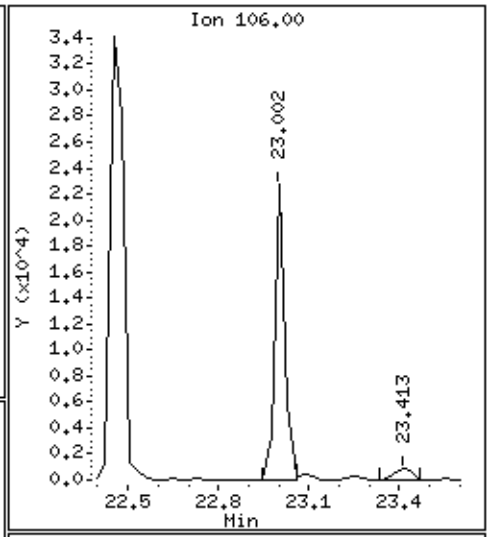
Concentration: 0.9482 PPBV

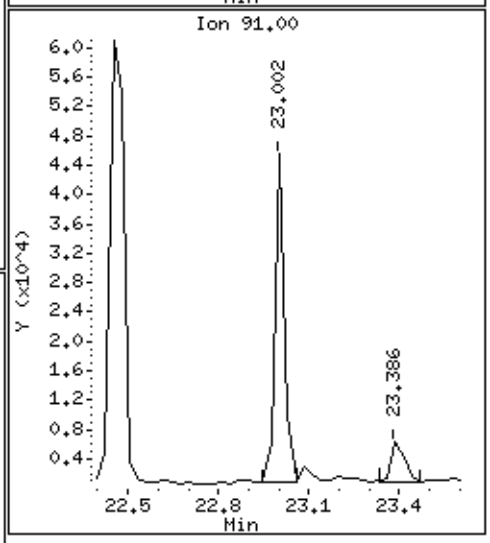












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

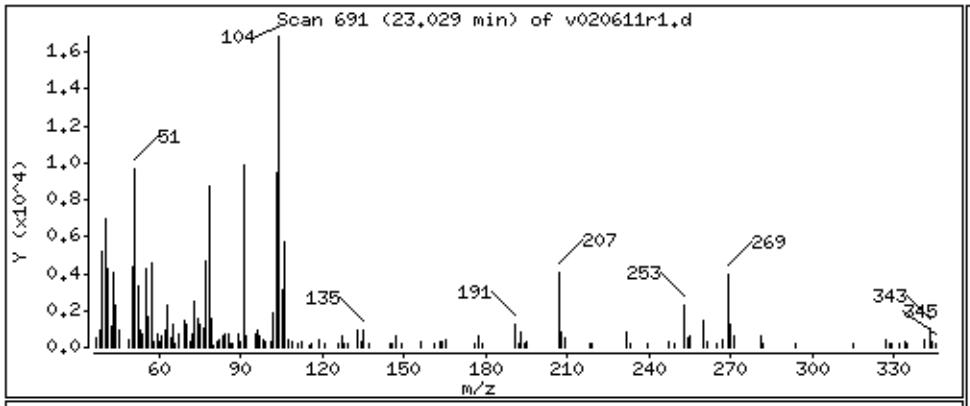
Operator: ef

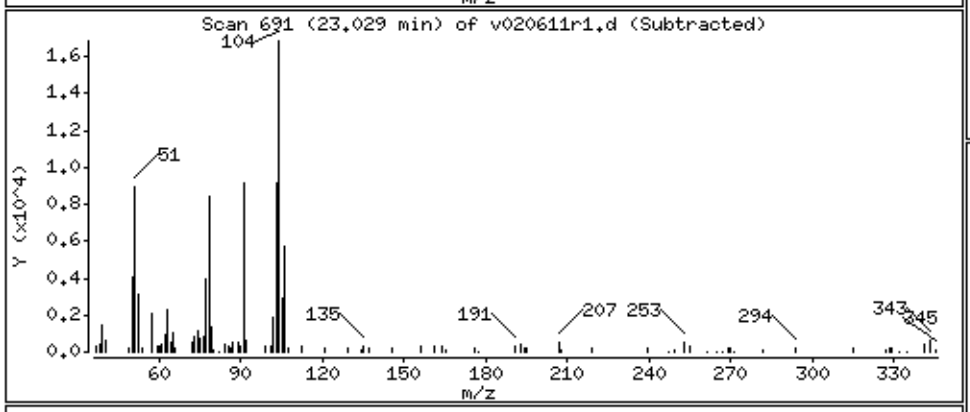
Column phase: RTx-624

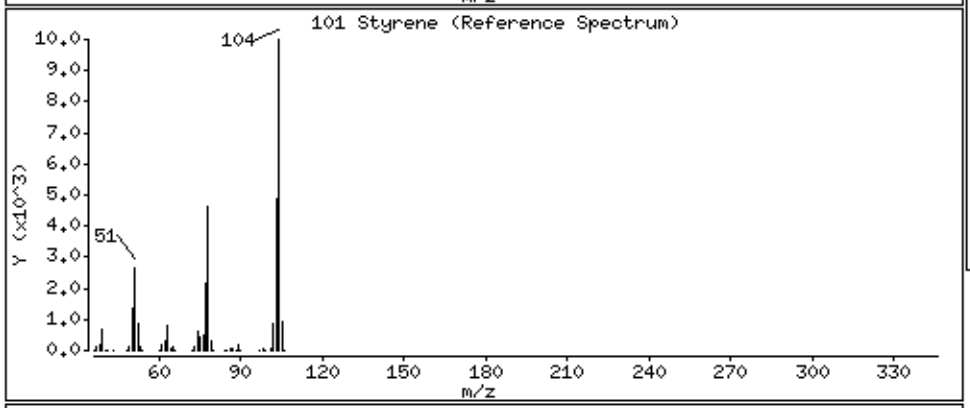
Column diameter: 0.32

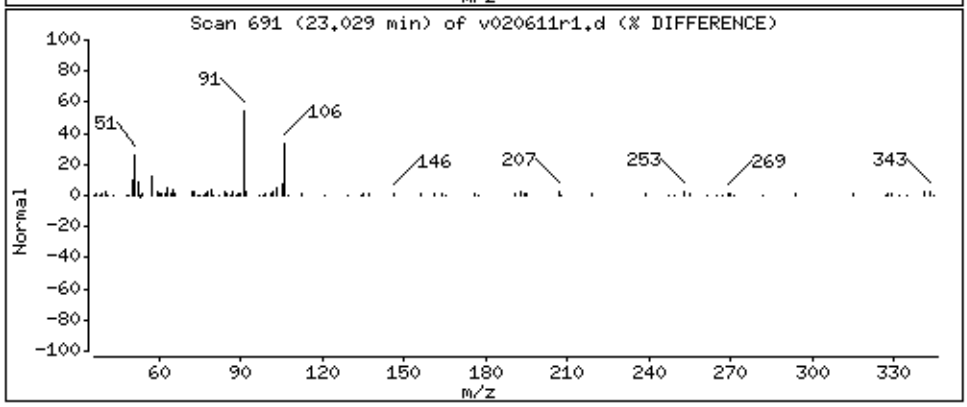
101 Styrene

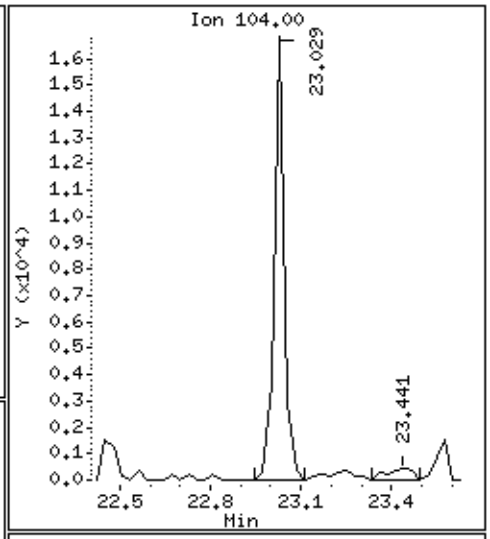
Concentration: 0.4760 PPBV

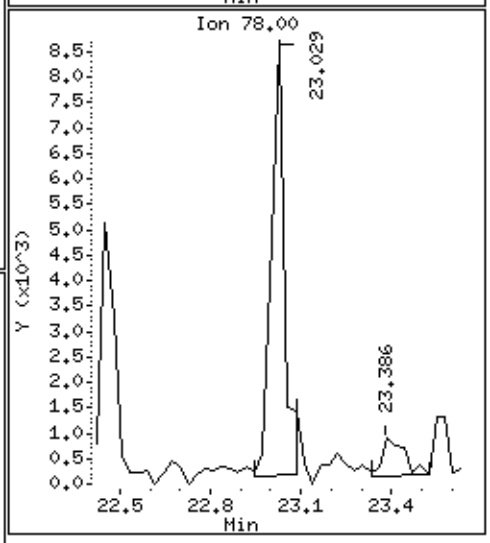












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

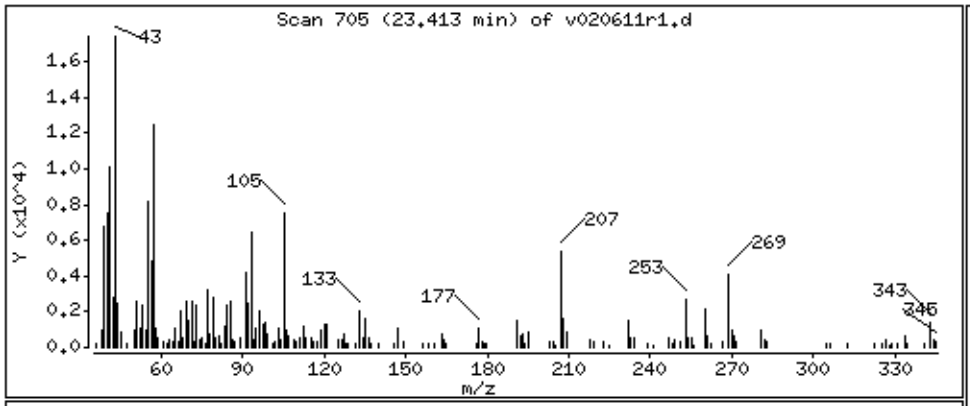
Operator: ef

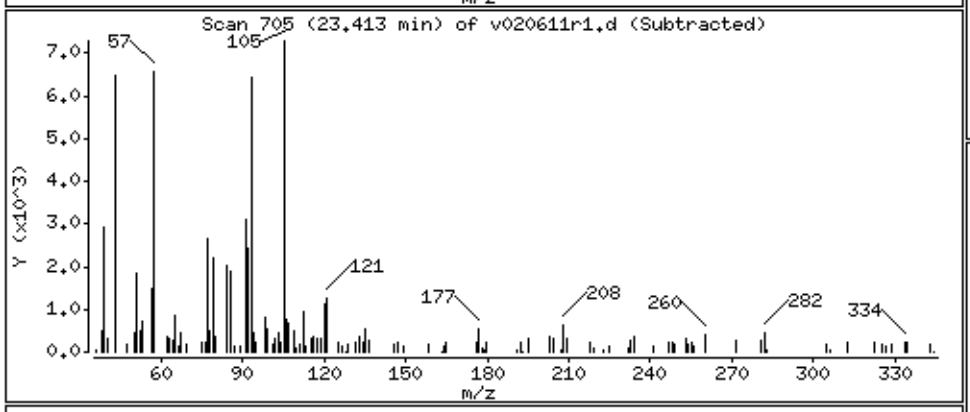
Column phase: RTx-624

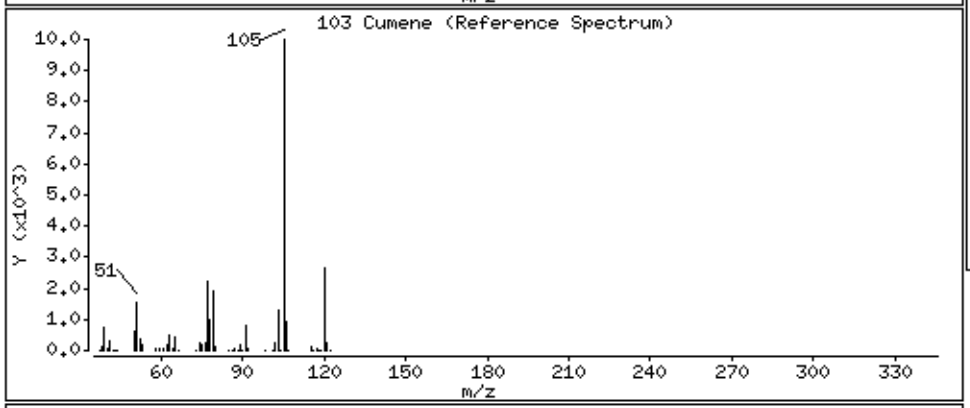
Column diameter: 0.32

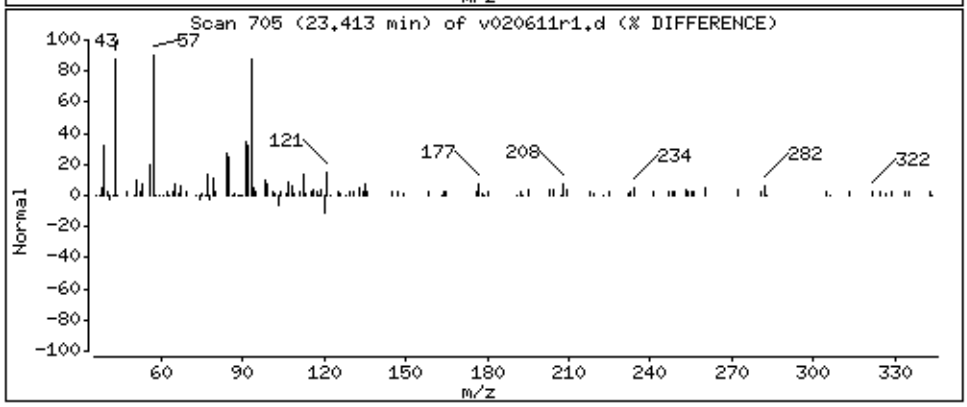
103 Cumene

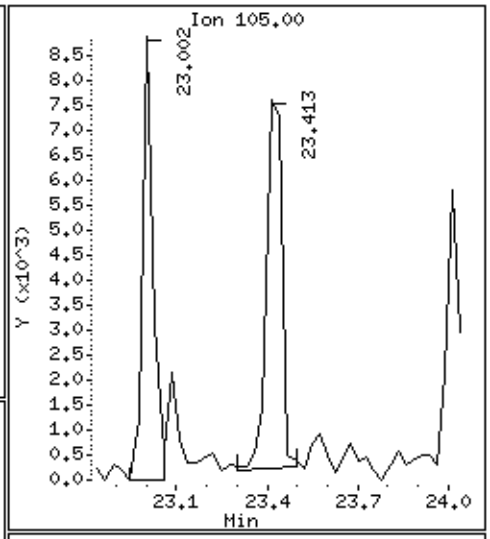
Concentration: 0.1704 PPBV

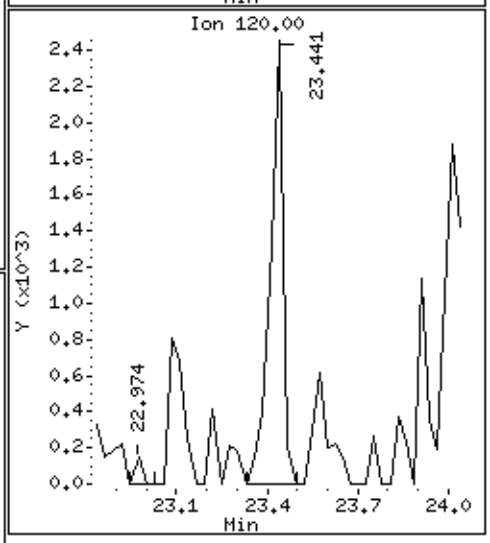












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

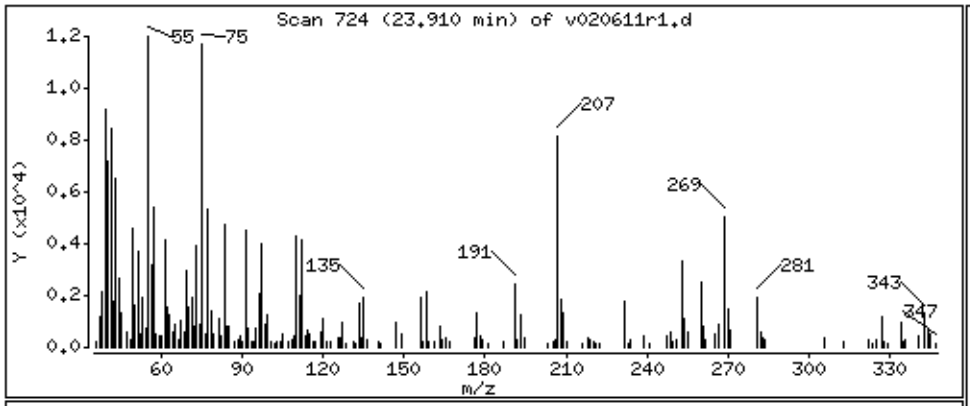
Operator: ef

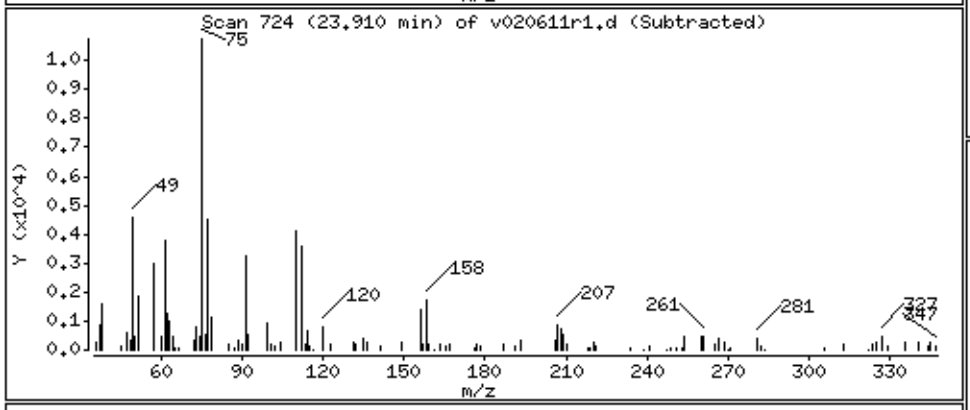
Column phase: RTx-624

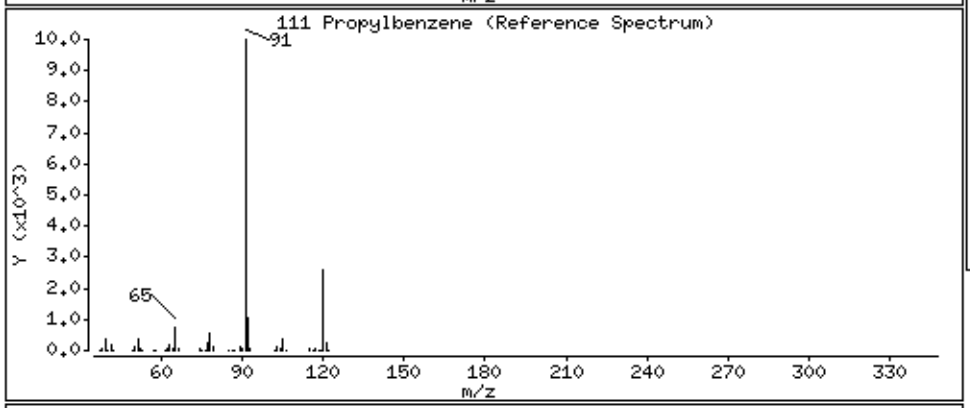
Column diameter: 0.32

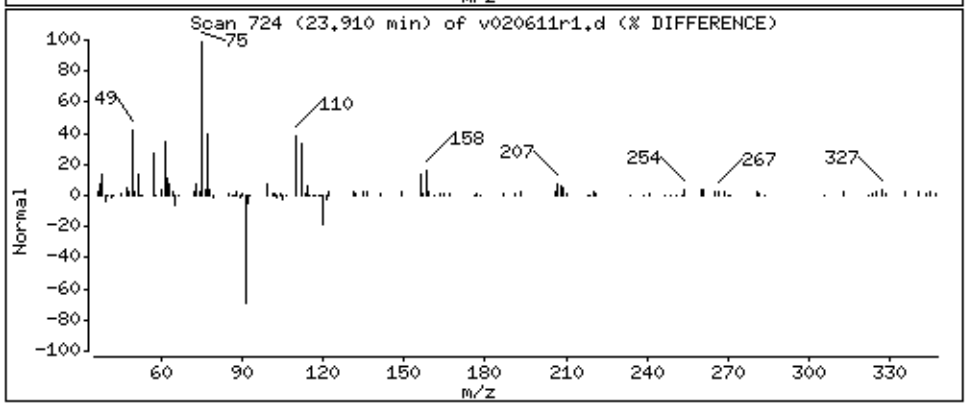
111 Propylbenzene

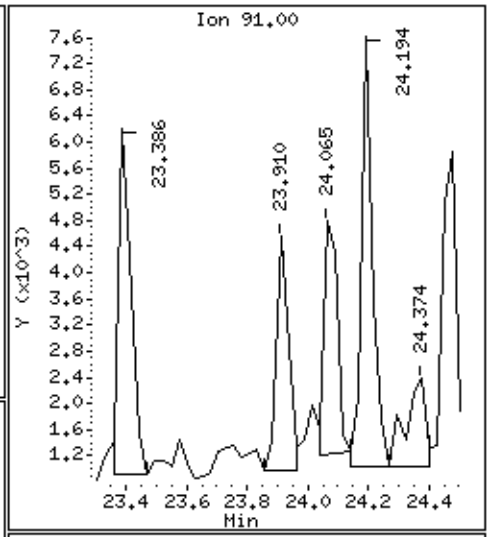
Concentration: 0.06566 PPBV

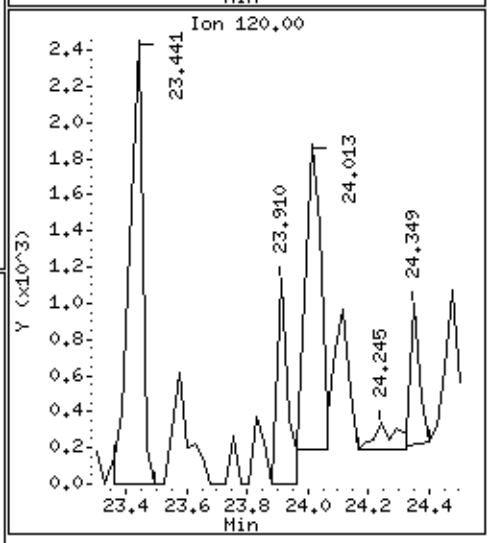












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

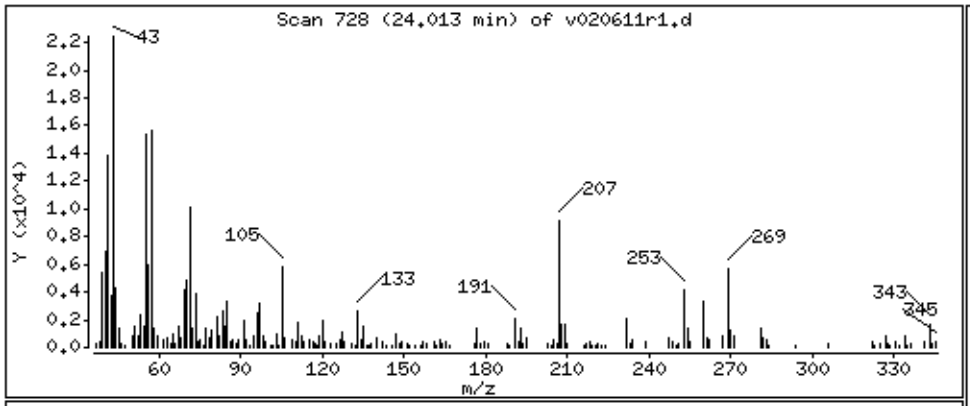
Operator: ef

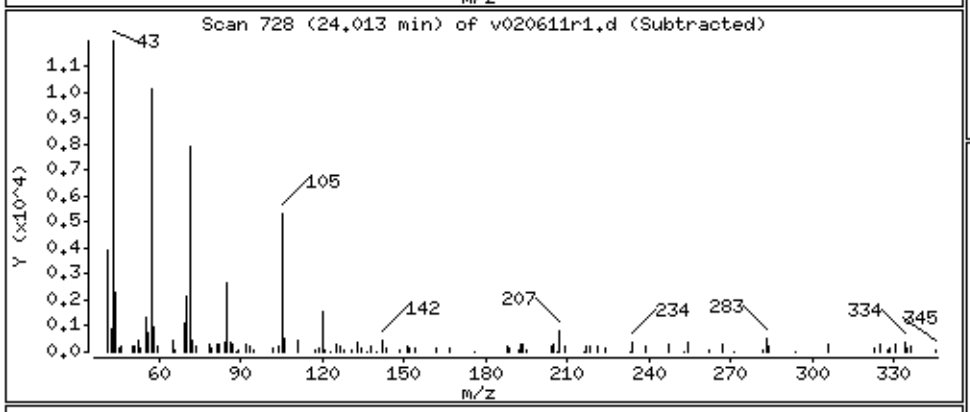
Column phase: RTx-624

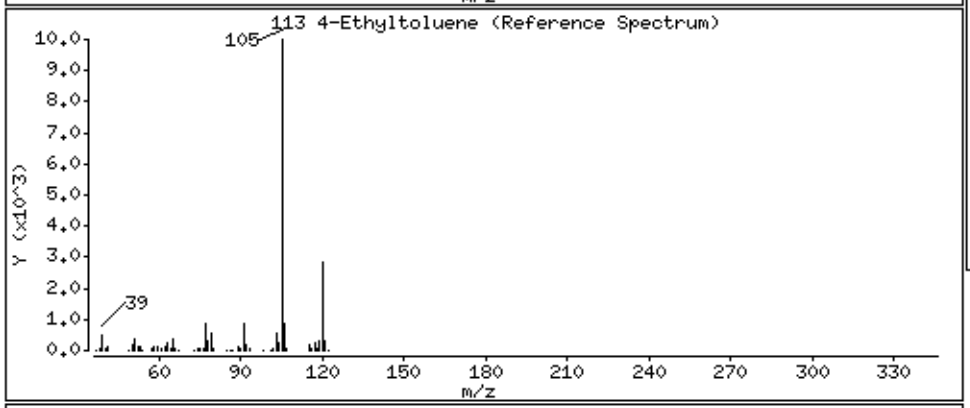
Column diameter: 0.32

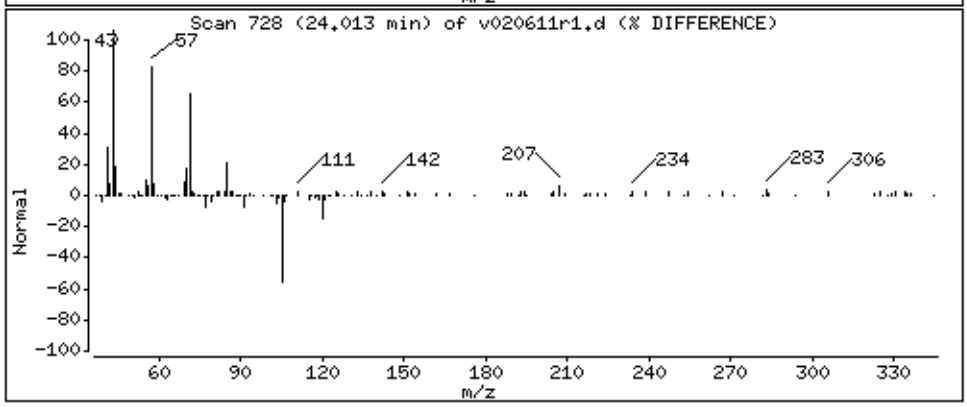
113 4-Ethyltoluene

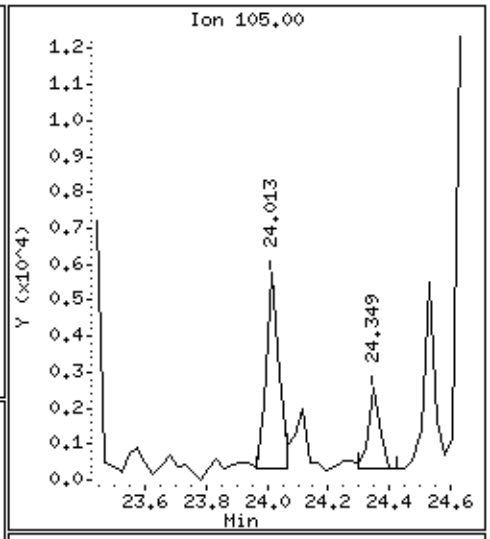
Concentration: 0.1479 PPBV

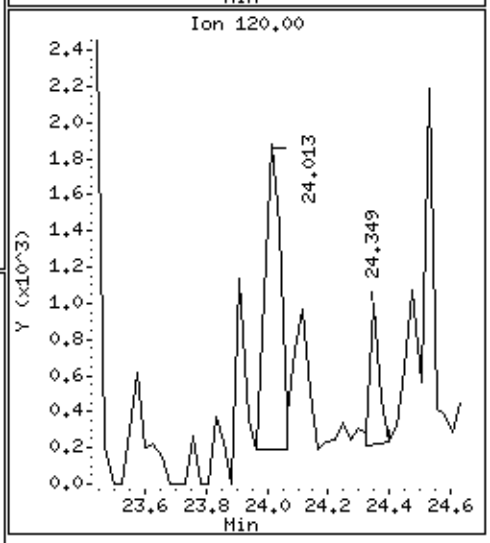












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

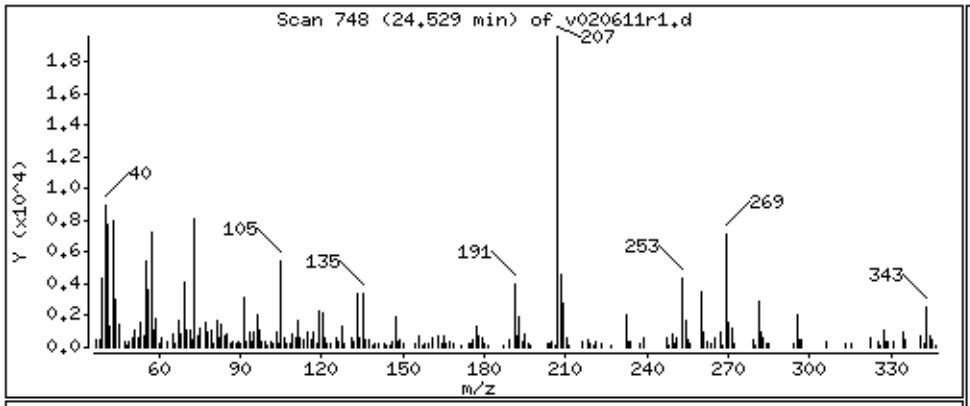
Operator: ef

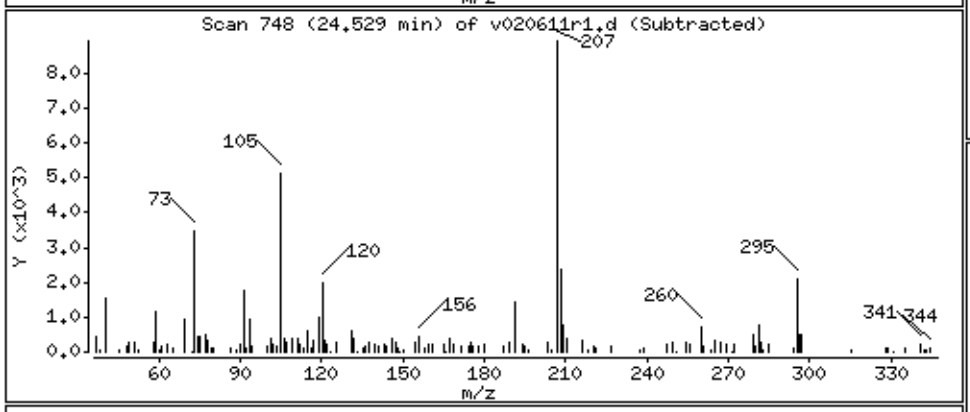
Column phase: RTx-624

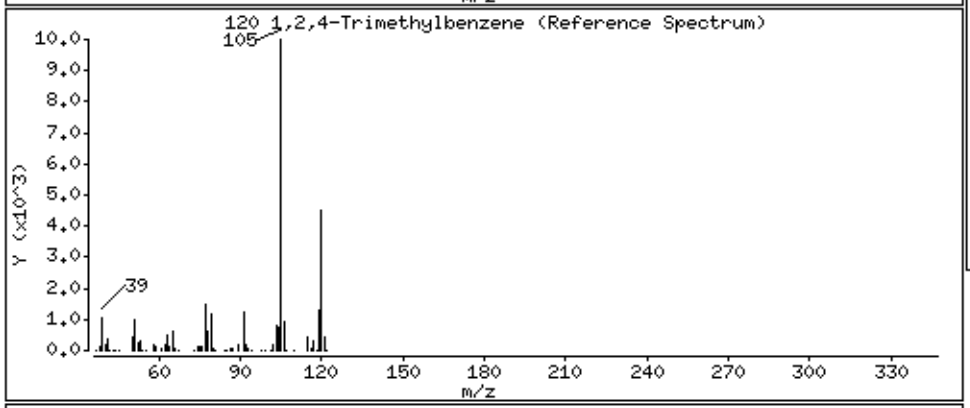
Column diameter: 0.32

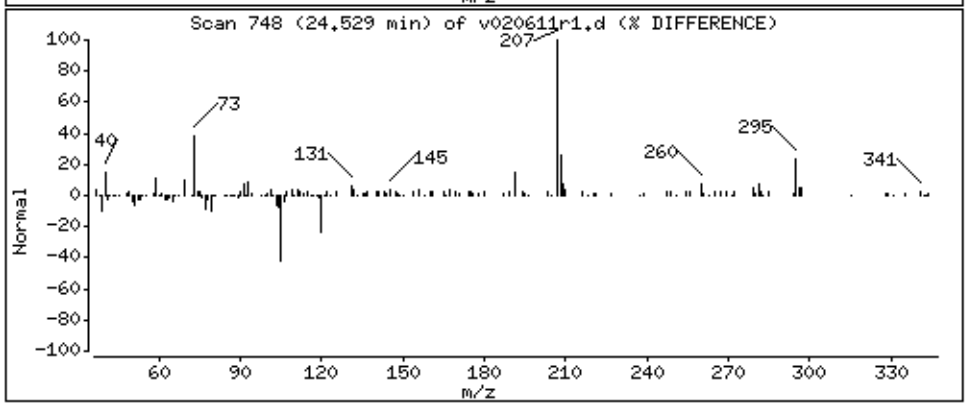
120 1,2,4-Trimethylbenzene

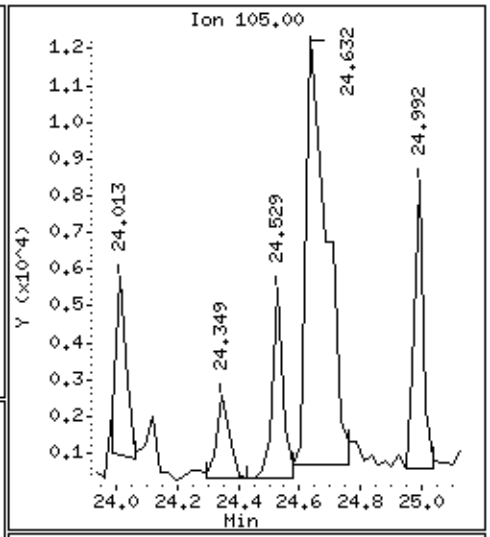
Concentration: 0.1224 PPBV

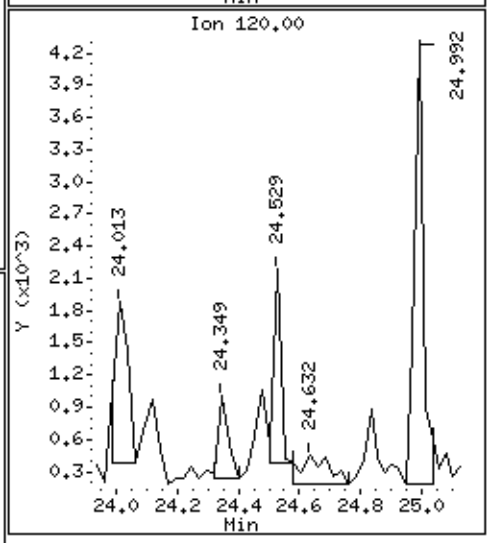












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

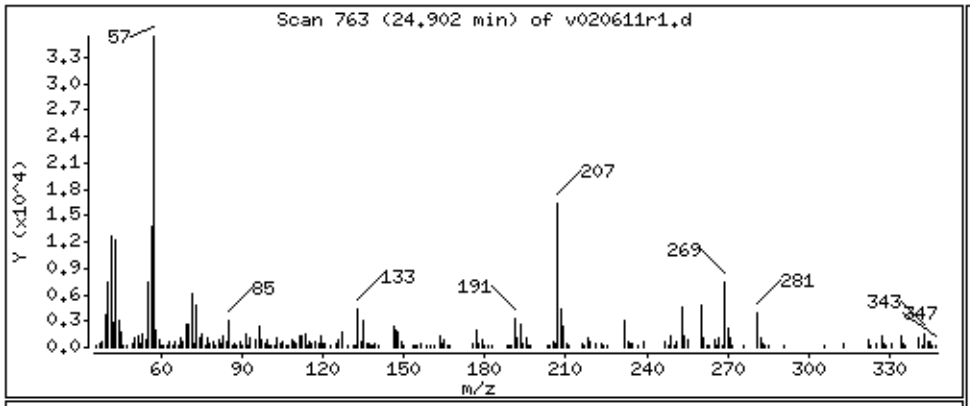
Operator: ef

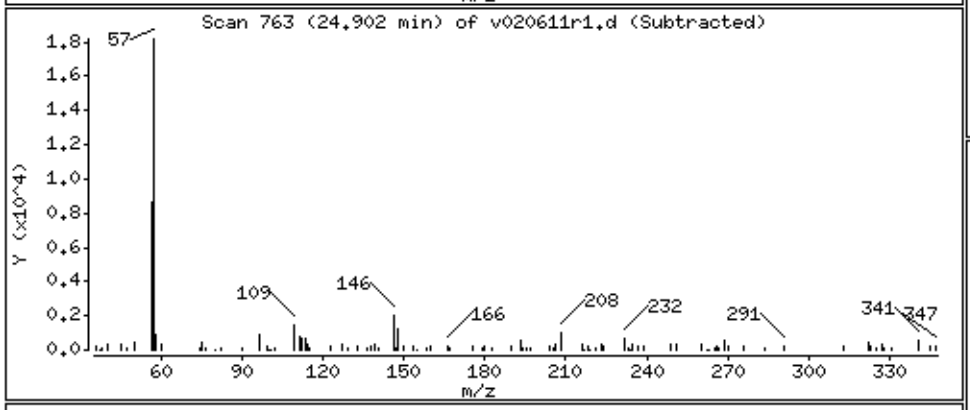
Column phase: RTx-624

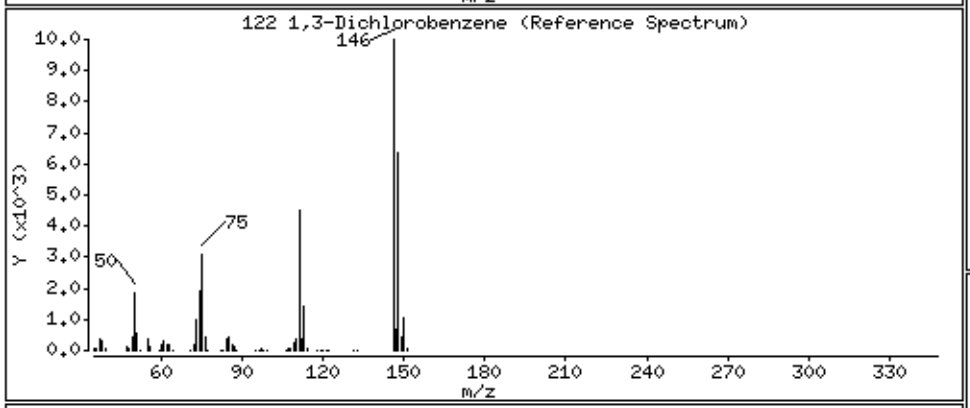
Column diameter: 0.32

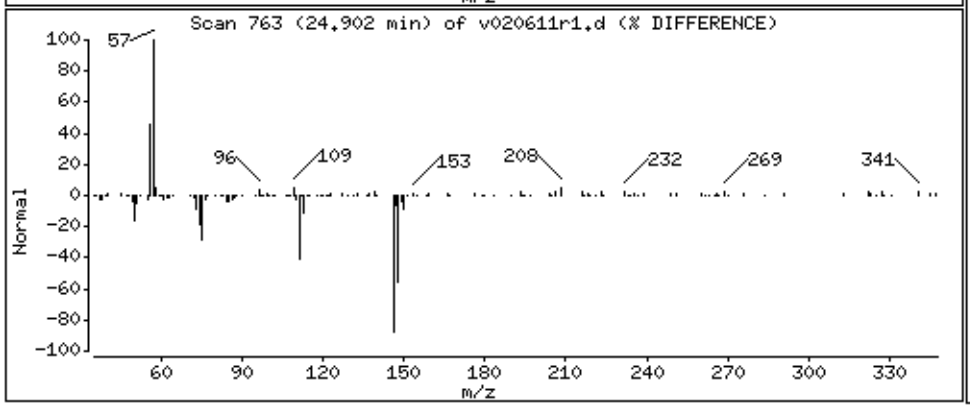
122 1,3-Dichlorobenzene

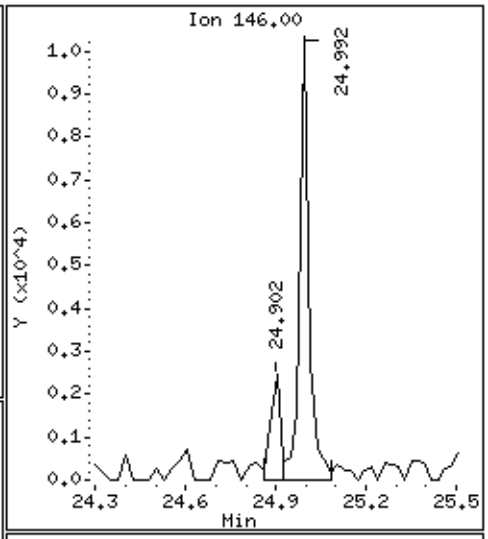
Concentration: 0.07585 PPBV

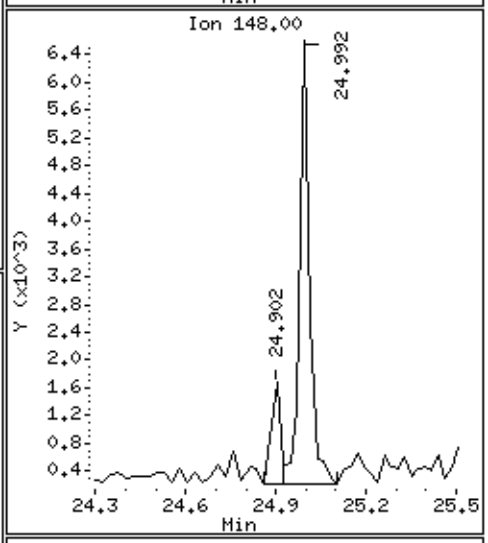


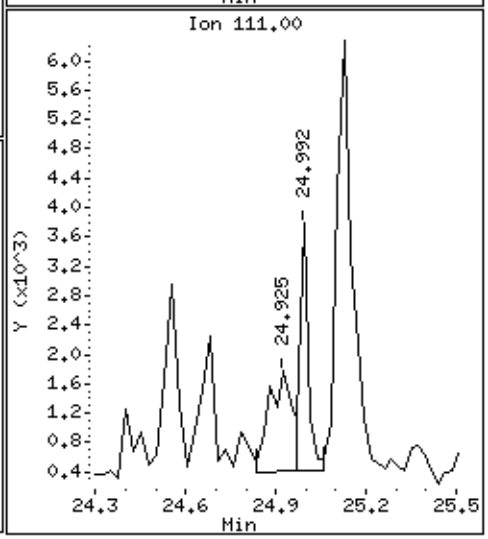












Data File: /chem/msdv.i/06Feb2015.b/v020611r1.d

Date : 06-FEB-2015 13:37

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 34361

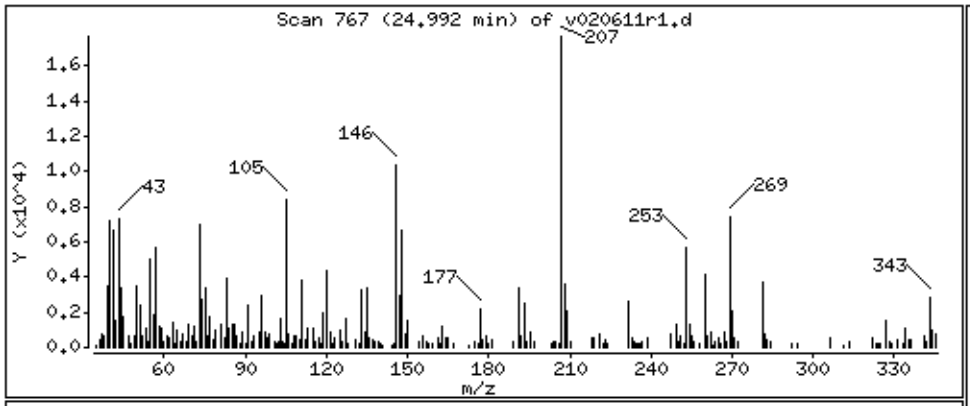
Operator: ef

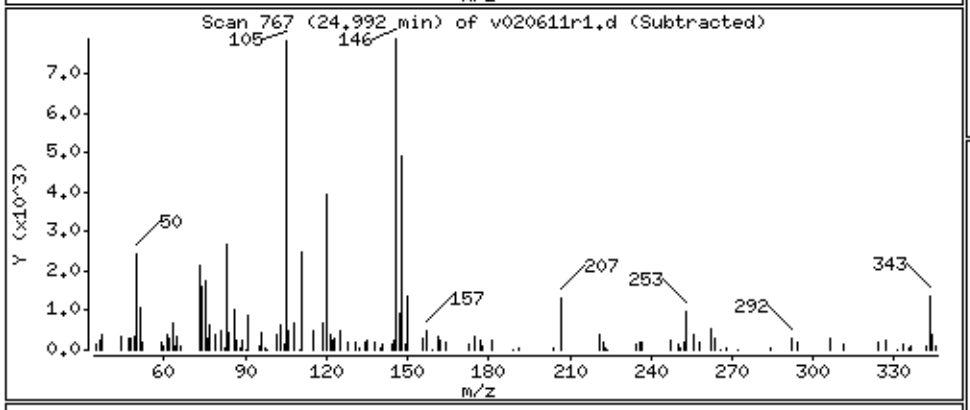
Column phase: RTx-624

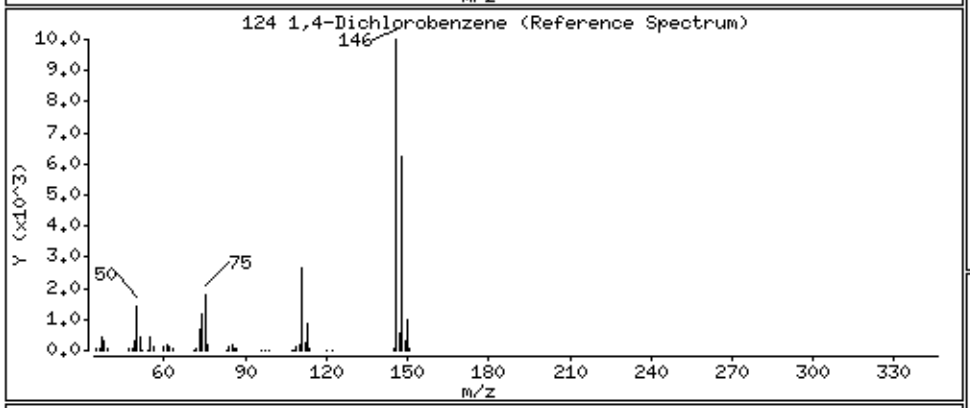
Column diameter: 0.32

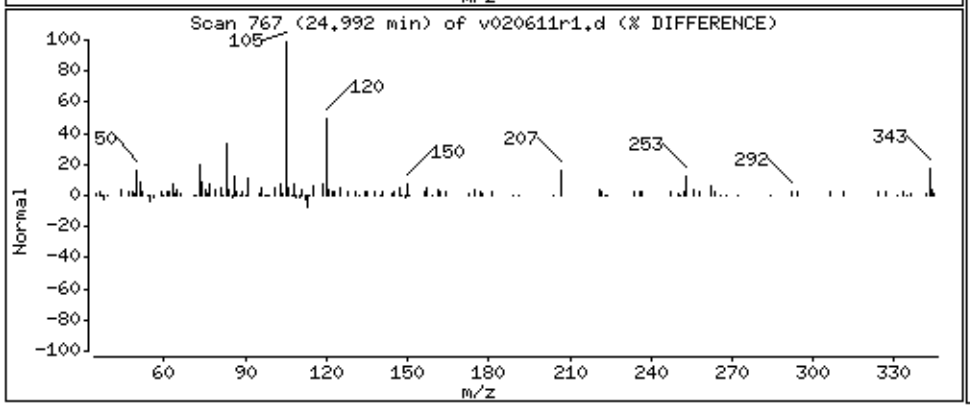
124 1,4-Dichlorobenzene

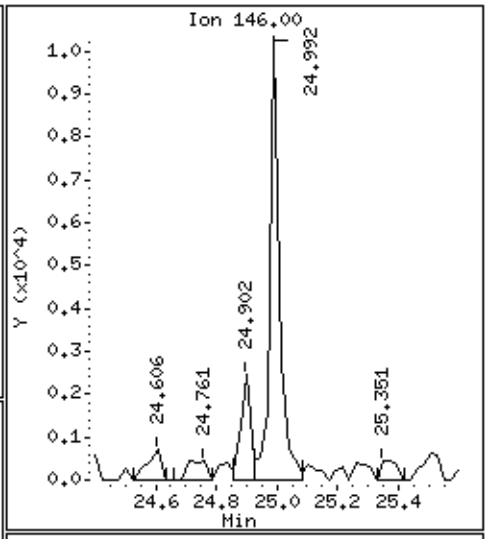
Concentration: 0.2773 PPBV

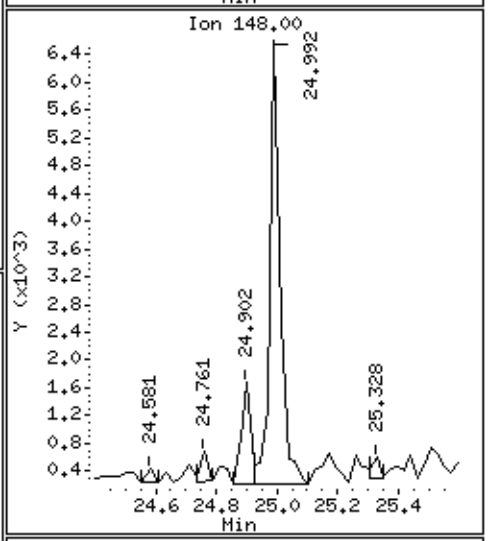


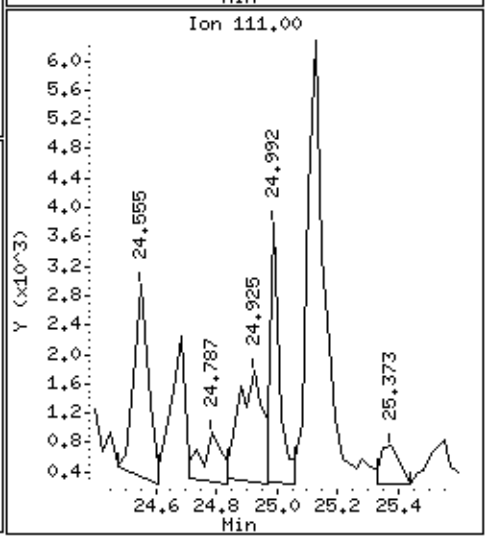












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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B6-3IA

Lab ID#: 1502053AR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.44	0.78	2.2
Chloromethane	0.78	0.68 J	1.6	1.4 J
Freon 11	0.16	0.20	0.88	1.1
Ethanol	0.78	12	1.5	23
Freon 113	0.16	0.064 J	1.2	0.49 J
Acetone	0.78	7.9	1.9	19
2-Propanol	0.78	48	1.9	120
Methylene Chloride	0.31	0.11 J	1.1	0.40 J
Hexane	0.16	1.8	0.55	6.4
2-Butanone (Methyl Ethyl Ketone)	0.78	0.30 J	2.3	0.87 J
Cyclohexane	0.16	0.058 J	0.54	0.20 J
Carbon Tetrachloride	0.16	0.063 J	0.99	0.40 J
Benzene	0.16	0.10 J	0.50	0.33 J
Heptane	0.16	0.058 J	0.64	0.24 J
Toluene	0.16	2.3	0.59	8.7
Ethyl Benzene	0.16	0.045 J	0.68	0.20 J
m,p-Xylene	0.16	0.14 J	0.68	0.59 J
o-Xylene	0.16	0.072 J	0.68	0.31 J
Styrene	0.16	0.037 J	0.67	0.16 J
1,2,4-Trimethylbenzene	0.16	0.056 J	0.77	0.28 J

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Client Sample ID: B6-3IA

Lab ID#: 1502053AR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020613r1**	**Date of Collection:**	**2/3/15 4:00:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**2/6/15 02:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.44	0.78	2.2
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.78	0.68 J	1.6	1.4 J
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.1	Not Detected
Freon 11	0.16	0.20	0.88	1.1
Ethanol	0.78	12	1.5	23
Freon 113	0.16	0.064 J	1.2	0.49 J
1,1-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Acetone	0.78	7.9	1.9	19
2-Propanol	0.78	48	1.9	120
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	0.11 J	1.1	0.40 J
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Hexane	0.16	1.8	0.55	6.4
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	0.30 J	2.3	0.87 J
cis-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Cyclohexane	0.16	0.058 J	0.54	0.20 J
Carbon Tetrachloride	0.16	0.063 J	0.99	0.40 J
2,2,4-Trimethylpentane	0.78	Not Detected	3.7	Not Detected
Benzene	0.16	0.10 J	0.50	0.33 J
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
Heptane	0.16	0.058 J	0.64	0.24 J
Trichloroethene	0.16	Not Detected	0.84	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.72	Not Detected
1,4-Dioxane	0.16	Not Detected	0.56	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.71	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.64	Not Detected
Toluene	0.16	2.3	0.59	8.7
trans-1,3-Dichloropropene	0.16	Not Detected	0.71	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.78	Not Detected	3.2	Not Detected

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Client Sample ID: B6-3IA

Lab ID#: 1502053AR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020613r1**	**Date of Collection:**	**2/3/15 4:00:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**2/6/15 02:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.72	Not Detected
Ethyl Benzene	0.16	0.045 J	0.68	0.20 J
m,p-Xylene	0.16	0.14 J	0.68	0.59 J
o-Xylene	0.16	0.072 J	0.68	0.31 J
Styrene	0.16	0.037 J	0.67	0.16 J
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.77	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.77	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.77	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.77	Not Detected
1,2,4-Trimethylbenzene	0.16	0.056 J	0.77	0.28 J
1,3-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.4	Not Detected
Naphthalene	0.78	Not Detected	4.1	Not Detected

J = Estimated value.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020613r1.d
Lab Smp Id: 1502053Ar1-04A
Inj Date : 06-FEB-2015 14:48
Operator : ef Inst ID: msdv.i
Smp Info : 250mL# 35174
Misc Info : 4.5"Hg - 4.9psi
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 26-Jun-2015 11:38 dbailey Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1
Dil Factor: 1.57000
Integrator: HP RTE Compound Sublist: TO15Nmdl.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
* 54 Bromochloromethane							CAS #: 74-97-5	
15.934	15.934	(1.000)	130	192049	5.00000		80.00- 120.00	100.00
15.934	15.934	(1.000)	128	147454			0.00- 30.00	76.78
15.934	15.934	(1.000)	49	428814			0.00- 30.00	223.28
* 71 1,4-Difluorobenzene							CAS #: 540-36-3	
17.305	17.305	(1.000)	114	797431	5.00000		80.00- 120.00	100.00
17.305	17.305	(1.000)	88	119219			0.00- 30.00	14.95
* 92 Chlorobenzene-d5							CAS #: 3114-55-4	
22.205	22.205	(1.000)	117	620483	5.00000		80.00- 120.00	100.00
22.205	22.205	(1.000)	82	348468			0.00- 30.00	56.16
$ 65 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
16.756	16.756	(1.052)	65	304505	5.05838	5.058	80.00- 120.00	100.00
16.756	16.756	(1.052)	67	140537			25.13- 85.13	46.15
$ 80 Toluene-d8							CAS #: 2037-26-5	
19.879	19.879	(1.149)	98	744300	4.98494	4.985	80.00- 120.00	100.00
19.857	19.879	(1.147)	70	78739			0.00- 40.74	10.58

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

$  80 Toluene-d8 (continued)
 19.879  19.879 (1.149)   100    478246                    36.73-  96.73    64.25
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    297385 5.11476    5.115  80.00- 120.00   100.00
 23.678  23.704 (1.066)    95    361322                   95.17- 155.17   121.50
 23.704  23.704 (1.067)   176    277774                   64.74- 124.74    93.41
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.278   5.202 (0.331)    85     42449 0.27726   0.4353  80.00- 120.00   100.00
  5.316   5.202 (0.334)    87     13682                    1.73-  61.73    32.23
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.128   7.053 (0.447)    50     43074 0.43585   0.6843  80.00- 120.00   100.00(a)
  7.090   7.053 (0.445)    52     14230                    1.57-  61.57    33.04
-------------------------------------------------------------------------------
   20 Trichlorofluoromethane/Fr11                   CAS #: 75-69-4
 11.184  11.184 (0.702)   101     21079 0.12917   0.2028  80.00- 120.00   100.00
 11.184  11.184 (0.702)   103     16219                   34.40-  94.40    76.94
-------------------------------------------------------------------------------
   24 Ethanol                                       CAS #: 64-17-5
 12.102  12.102 (0.760)    45    277973 7.92185   12.437  80.00- 120.00   100.00
 12.102  12.102 (0.760)    46    109710                    9.93-  69.93    39.47
 12.102  12.102 (0.760)    43     55842                    0.00-  50.31    20.09
-------------------------------------------------------------------------------
   28 Freon 113                                     CAS #: 76-13-1
 12.596  12.569 (0.791)   151      4802 0.04111  0.06455  80.00- 120.00   100.00(a)
 12.596  12.569 (0.791)   153      3118                   33.38-  93.38    64.93
 12.596  12.569 (0.791)   101      5459                   85.19- 145.19   113.68
-------------------------------------------------------------------------------
   31 Acetone                                       CAS #: 67-64-1
 12.816  12.816 (0.804)    58    223837 5.04767    7.925  80.00- 120.00   100.00
 12.816  12.816 (0.804)    43    842010                  326.03- 386.03   376.17
-------------------------------------------------------------------------------
   34 2-Propanol                                    CAS #: 67-63-0
 13.173  13.173 (0.827)    45   5429749 30.9363   48.570  80.00- 120.00   100.00
 13.173  13.173 (0.827)    43    971541                    0.00-  47.97    17.89
 13.173  13.173 (0.827)    59    169036                    0.00-  33.25     3.11
-------------------------------------------------------------------------------
   37 Methylene Chloride                            CAS #: 75-09-2
 13.667  13.640 (0.858)    84      3969 0.07248   0.1138  80.00- 120.00   100.00(a)
 13.640  13.640 (0.856)    49     11708                  198.57- 258.57   294.99
 13.667  13.640 (0.858)    51      4765                   41.48- 101.48   120.06
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57    179007 1.15593    1.815  80.00- 120.00   100.00
```

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

   43 Hexane (continued)
 14.381  14.381 (0.903)    43    140392                    41.32- 101.32    78.43
 14.381  14.381 (0.903)    86     17814                     0.00-  40.13     9.95
-------------------------------------------------------------------------------
   51 2-Butanone                                   CAS #: 78-93-3
 15.613  15.572 (0.980)    72      5655 0.18811   0.2953  80.00- 120.00   100.00(a)
 15.613  15.572 (0.980)    43     51160                   687.17- 747.17   904.69
 15.613  15.572 (0.980)    57      2551                    23.39-  83.39    45.11
-------------------------------------------------------------------------------
   57 Cyclohexane                                  CAS #: 110-82-7
 16.242  16.242 (1.019)    84      3384 0.03722  0.05843  80.00- 120.00   100.00(a)
 16.242  16.242 (1.019)    56      7750                   160.85- 220.85   229.02
 16.273  16.242 (1.021)    41      6267                    75.49- 135.49   185.20
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                         CAS #: 56-23-5
 16.458  16.458 (1.033)   119      5458 0.04011  0.06298  80.00- 120.00   100.00(a)
 16.458  16.458 (1.033)   117      8142                    67.96- 127.96   149.18
                   Sum of Peak Concentrations =  0.06298
-------------------------------------------------------------------------------
   64 Benzene                                      CAS #: 71-43-2
 16.756  16.756 (0.968)    78     13131 0.06633   0.1041  80.00- 120.00   100.00(a)
 16.783  16.756 (0.970)    77      2615                     0.00-  53.39    19.91
-------------------------------------------------------------------------------
   69 Heptane                                      CAS #: 142-82-5
 16.975  16.975 (0.981)    57      3454 0.03685  0.05786  80.00- 120.00   100.00(a)
  0.000  16.975 (0.000)   100         0                     0.00-  51.16     0.00
 16.975  16.975 (0.981)    43      9364                   180.62- 240.62   271.11
-------------------------------------------------------------------------------
   81 Toluene                                      CAS #: 108-88-3
 19.991  19.991 (1.155)    91    330678 1.46591    2.301  80.00- 120.00   100.00
 19.991  19.991 (1.155)    92    190792                    28.34-  88.34    57.70
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                CAS #: 100-41-4
 22.315  22.315 (1.005)   106      2627 0.02867  0.04502  80.00- 120.00   100.00(a)
 22.315  22.315 (1.005)    91      9297                   260.31- 320.31   353.90
-------------------------------------------------------------------------------
   96 m,p-Xylene                                   CAS #: 108-38-3
 22.480  22.480 (1.012)   106      7992 0.08637   0.1356  80.00- 120.00   100.00(a)
 22.480  22.480 (1.012)    91     17714                   157.23- 217.23   221.65
-------------------------------------------------------------------------------
  100 o-Xylene                                     CAS #: 95-47-6
 23.002  23.002 (1.036)   106      3930 0.04620  0.07254  80.00- 120.00   100.00(a)
 23.002  23.002 (1.036)    91      9279                   167.76- 227.76   236.11
-------------------------------------------------------------------------------
  101 Styrene                                      CAS #: 100-42-5
 23.056  23.029 (1.038)   104      2978 0.02348  0.03686  80.00- 120.00   100.00(a)
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
101 Styrene (continued)								
23.056	23.029	(1.038)	78	4436			17.96- 77.96	148.96
120 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
24.529	24.529	(1.105)	105	5628	0.03604	0.05658	80.00- 120.00	100.00(a)
24.529	24.529	(1.105)	120	4315			0.00- 30.00	76.67

QC Flag Legend

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

Report Date: 26-Jun-2015 11:39

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020613r1.d
Lab Smp Id: 1502053Ar1-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 4.5"Hg - 4.9psi

Calibration Date: 06-FEB-2015
Calibration Time: 06:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	192049	-8.98
71 1,4-Difluorobenze	830109	498065	1162153	797431	-3.94
92 Chlorobenzene-d5	628752	377251	880253	620483	-1.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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: 26-Jun-2015 11:39

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 06Feb2015
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1502053Ar1-04A
Level: LOW Operator: ef
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT12.spk Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 4.5"Hg - 4.9psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	5.058	101.17	70-130
$ 80 Toluene-d8	5.000	4.985	99.70	70-130
$ 106 Bromofluorobenzene	5.000	5.115	102.30	70-130

Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

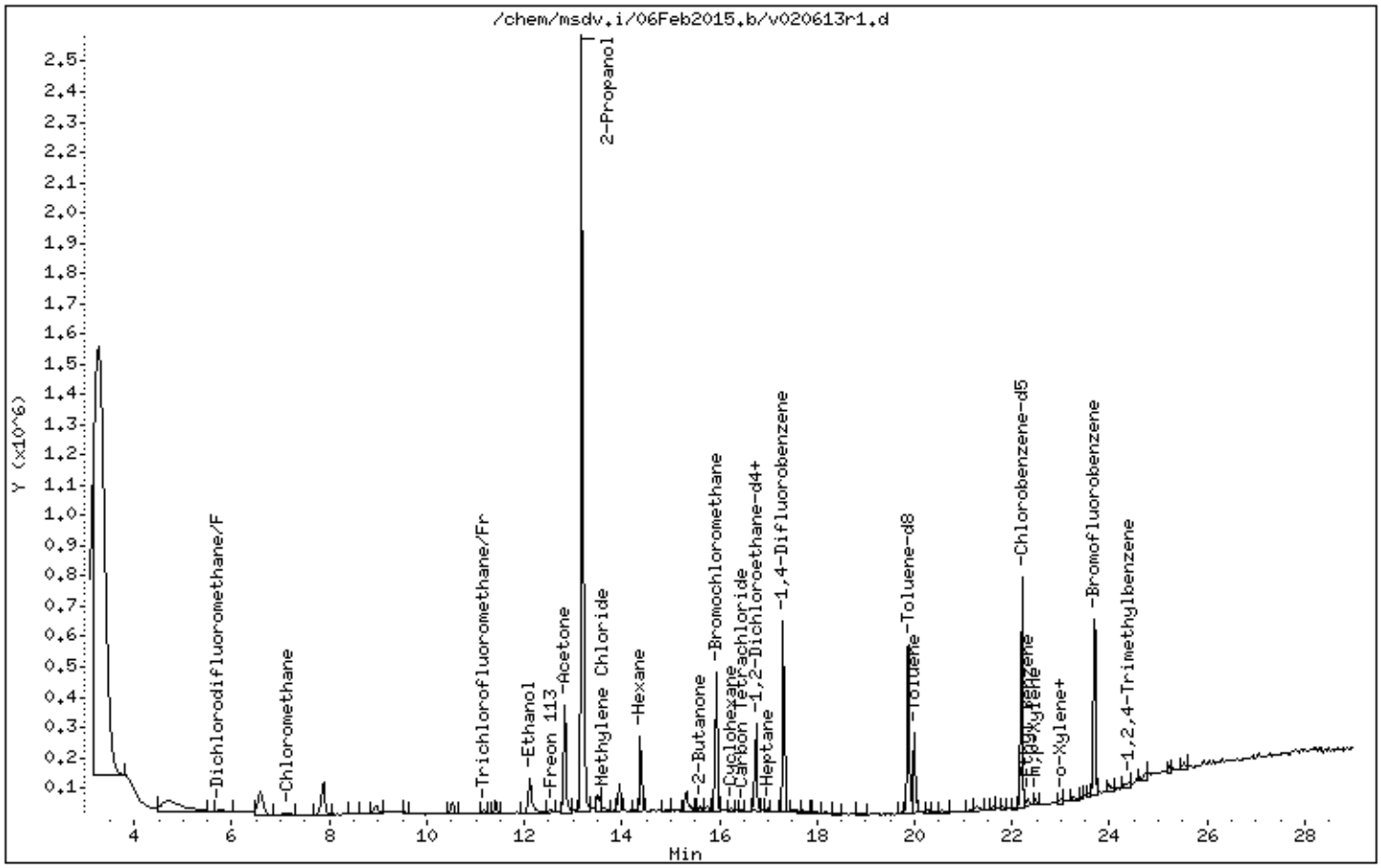
Instrument: msdv.i

Sample Info: 250mL# 35174

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

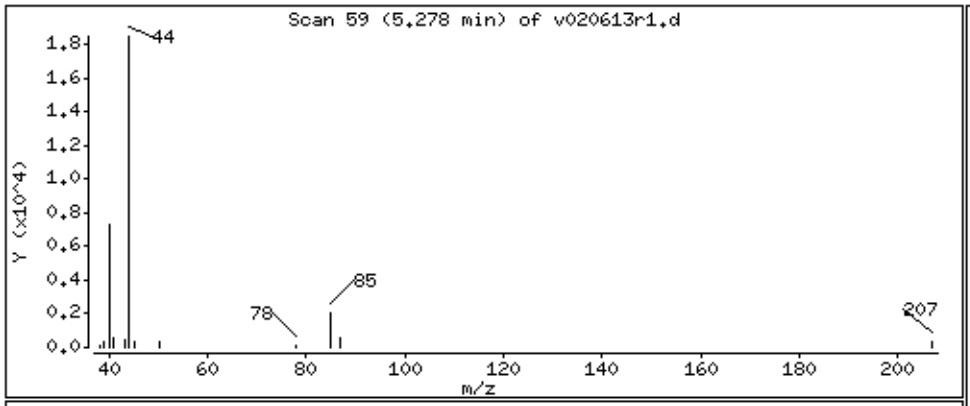
Operator: ef

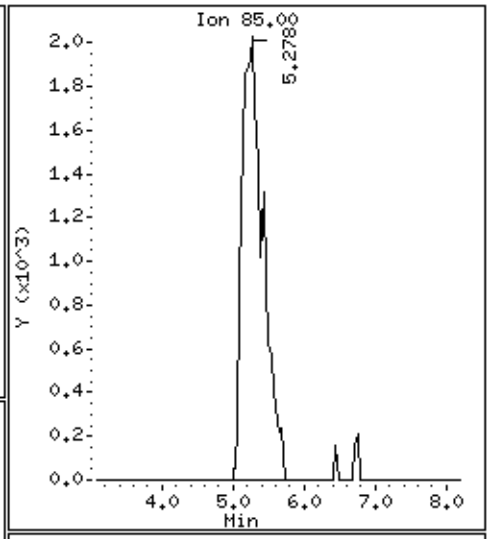
Column phase: RTx-624

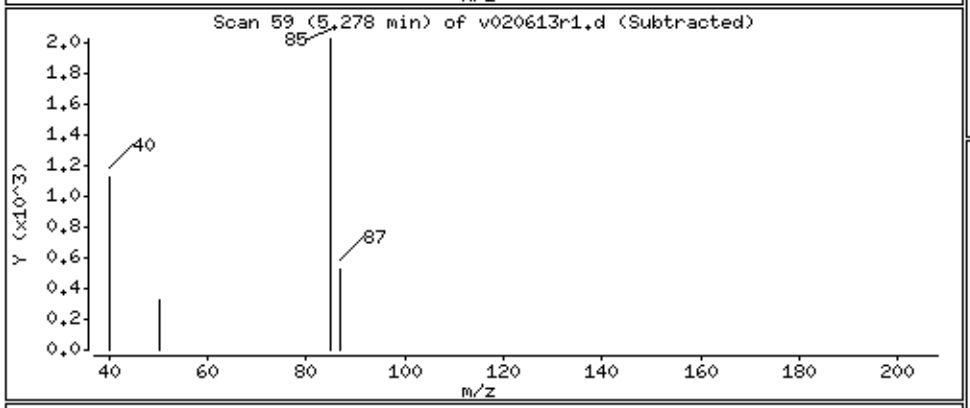
Column diameter: 0.32

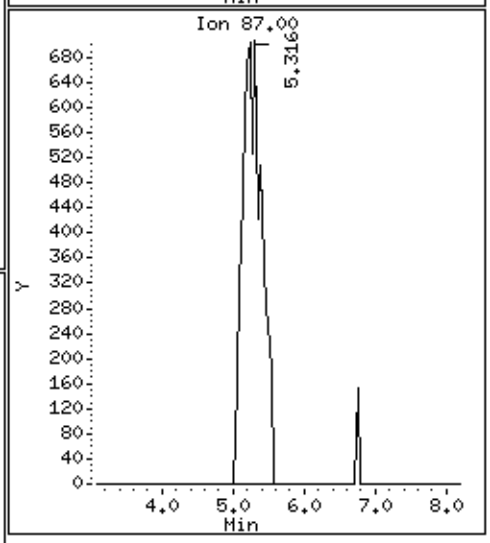
4 Dichlorodifluoromethane/Fr12

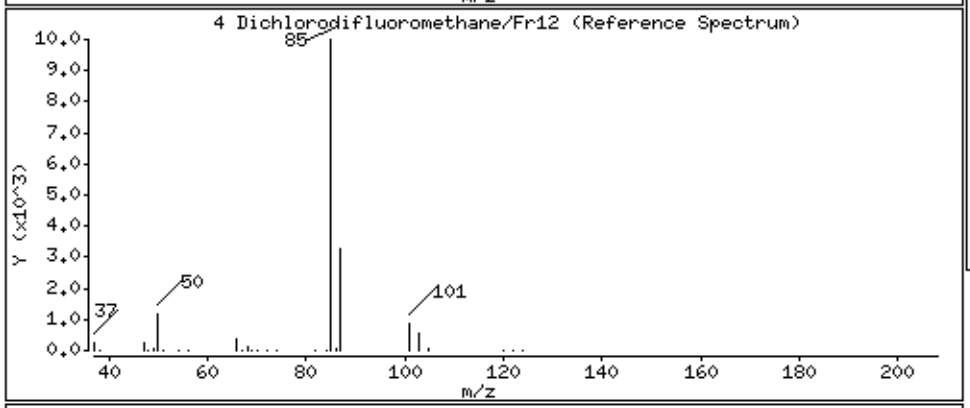
Concentration: 0.4353 PPBV

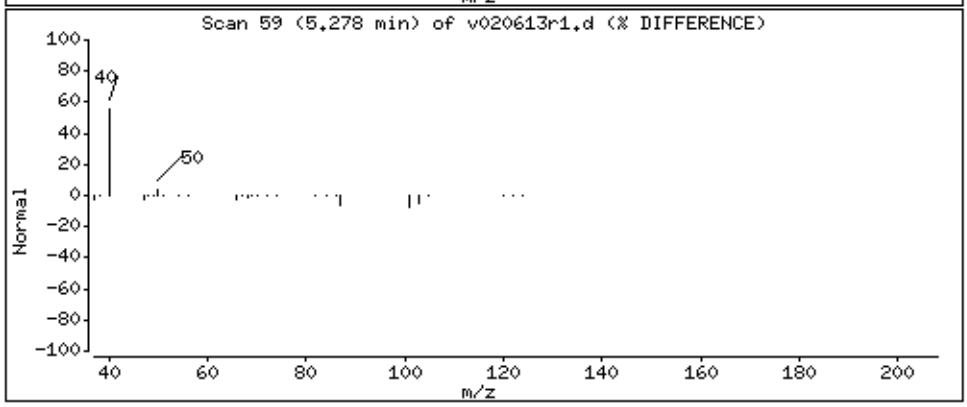












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

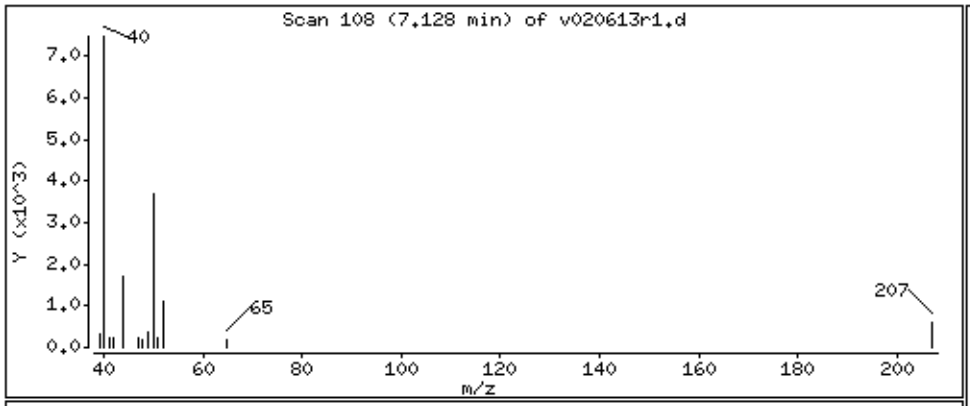
Operator: ef

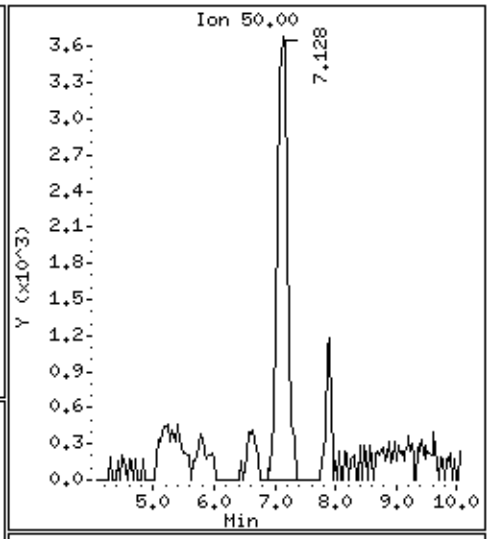
Column phase: RTx-624

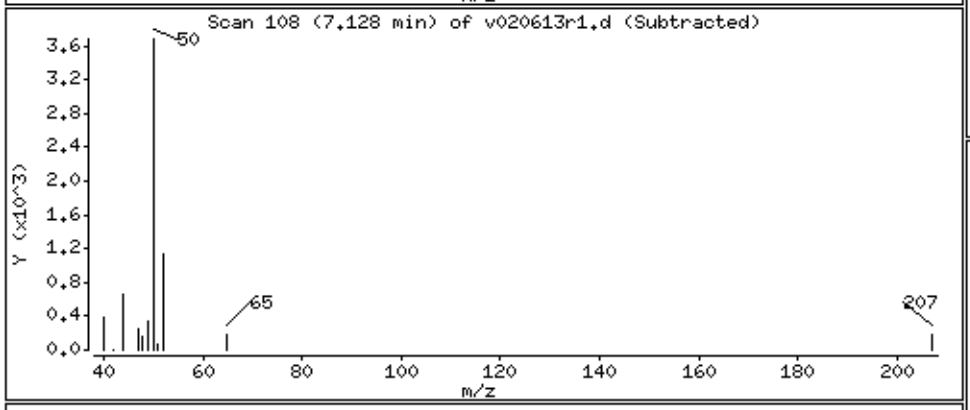
Column diameter: 0.32

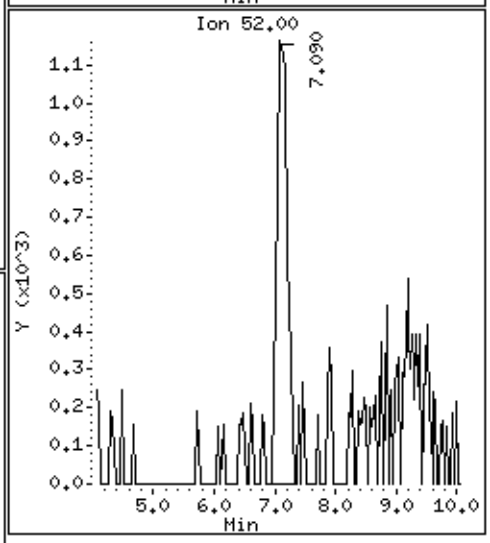
8 Chloromethane

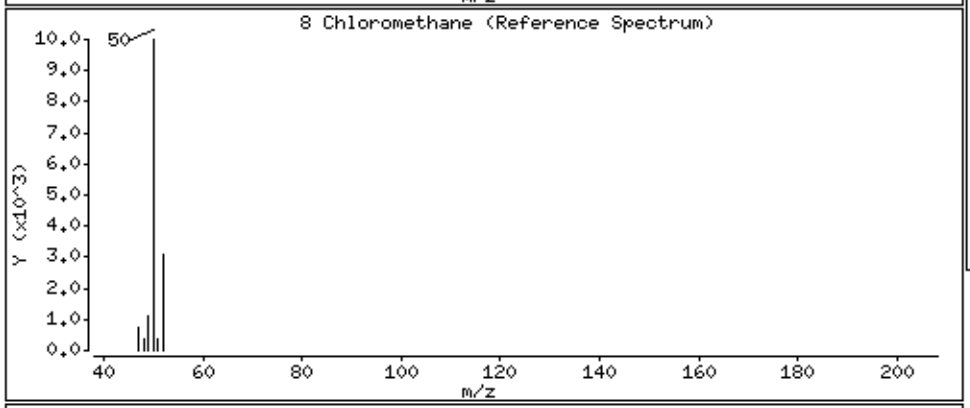
Concentration: 0.6843 PPBV

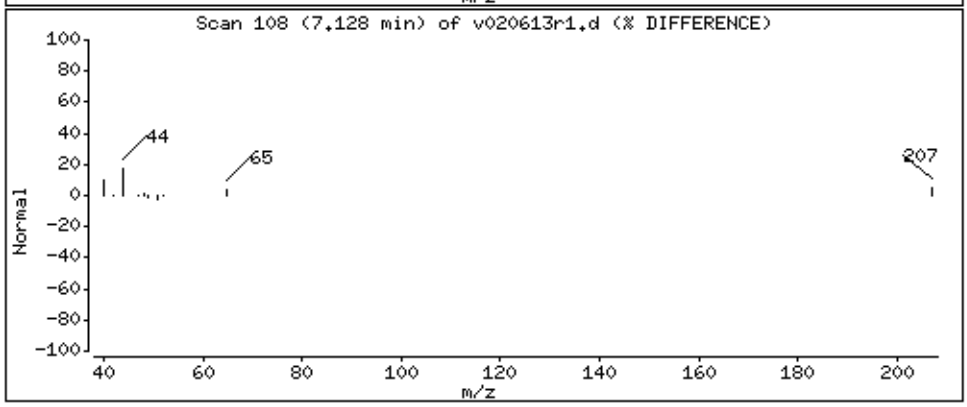












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

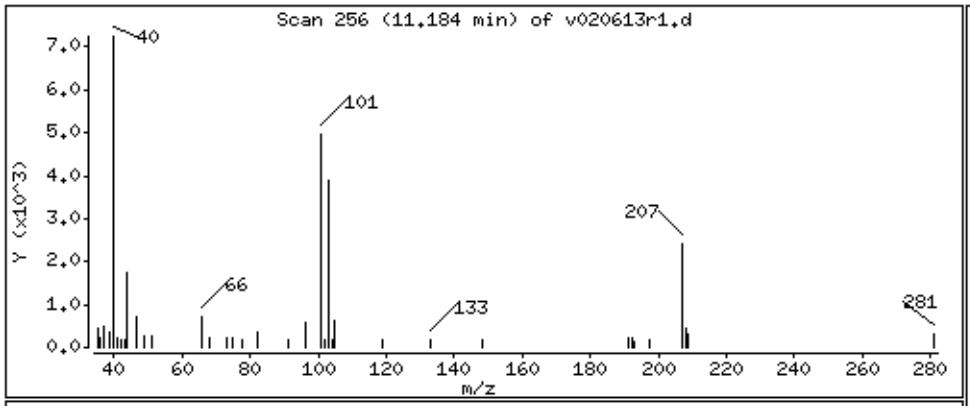
Operator: ef

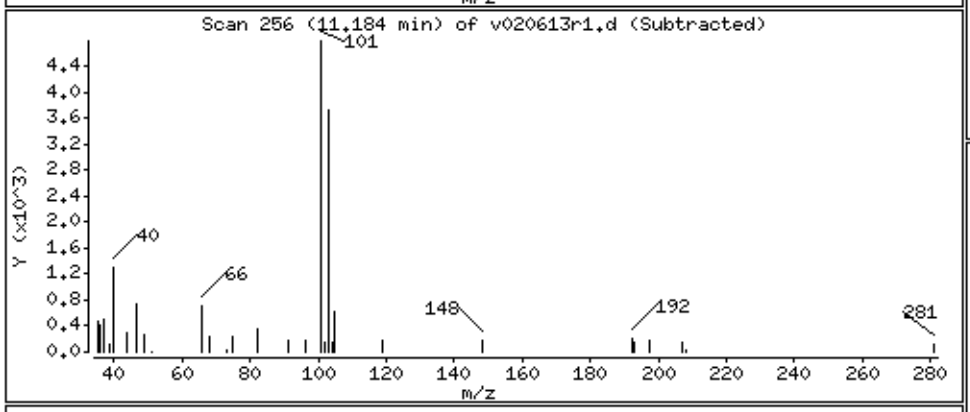
Column phase: RTx-624

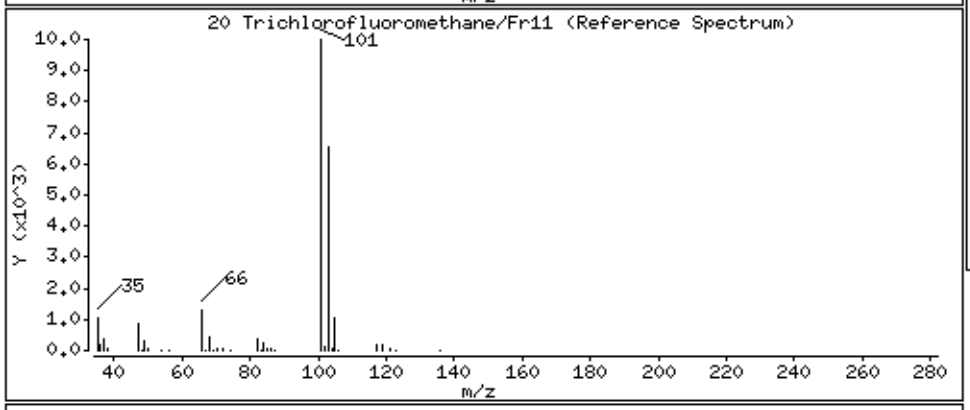
Column diameter: 0.32

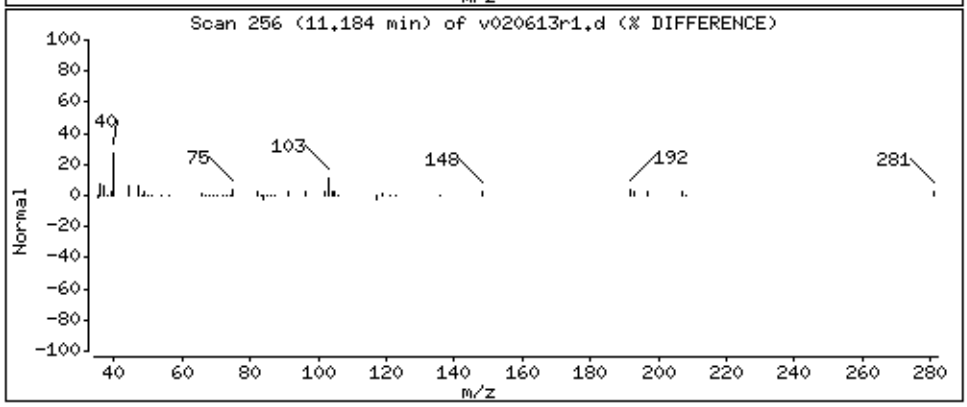
20 Trichlorofluoromethane/Fr11

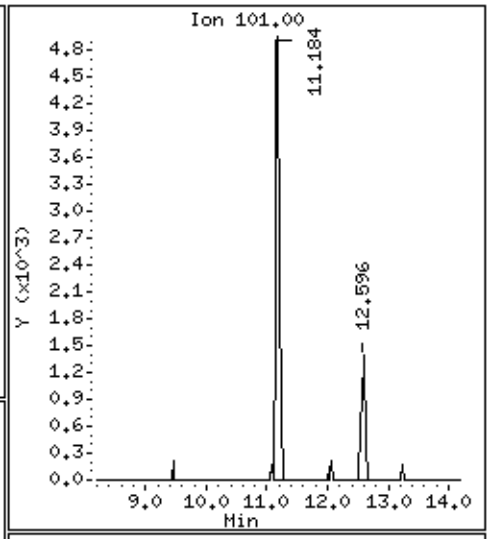
Concentration: 0.2028 PPBV

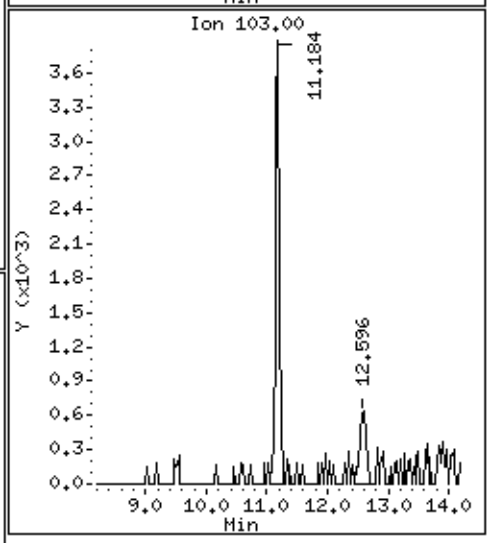












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

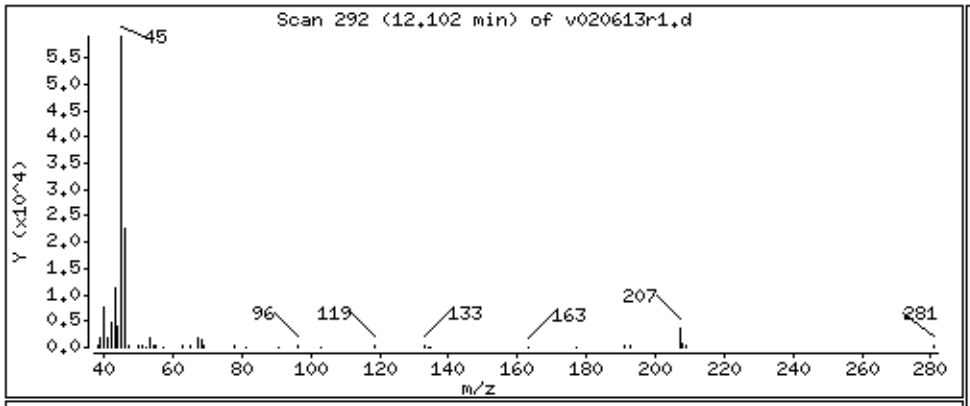
Operator: ef

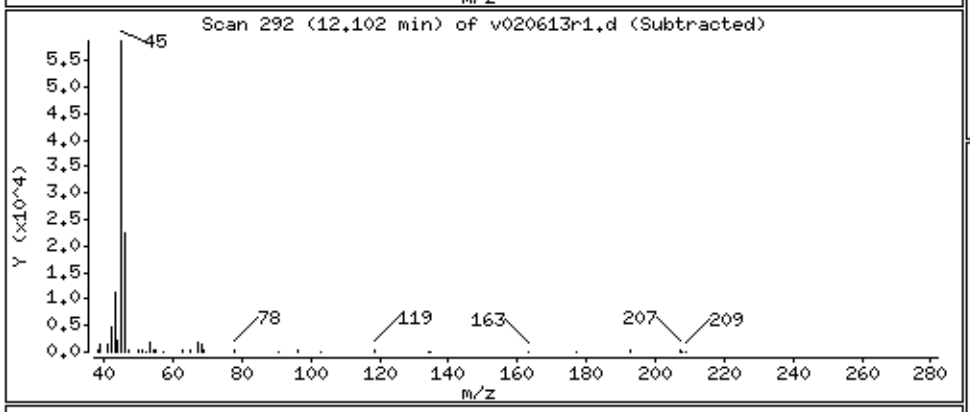
Column phase: RTx-624

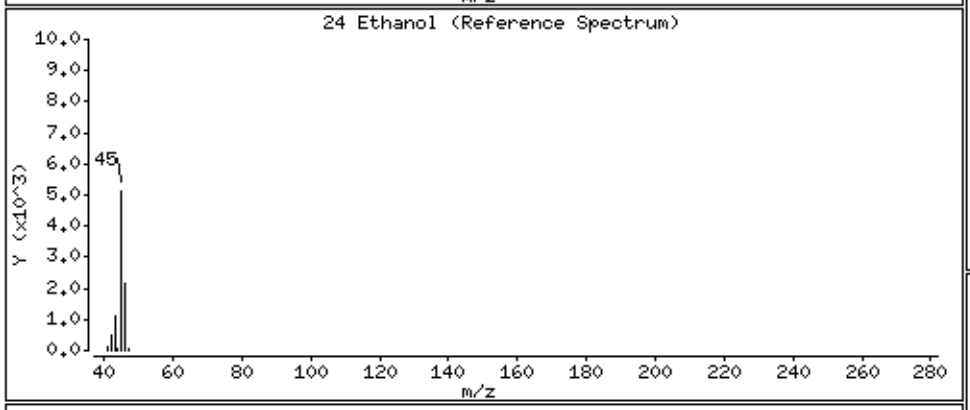
Column diameter: 0.32

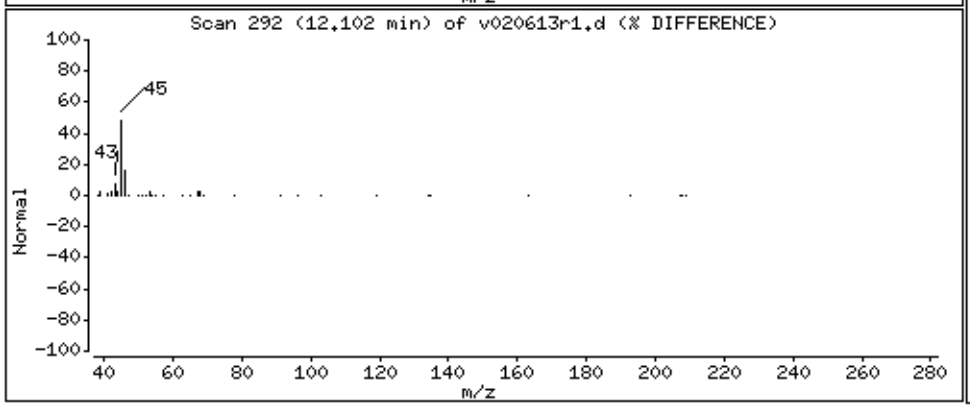
24 Ethanol

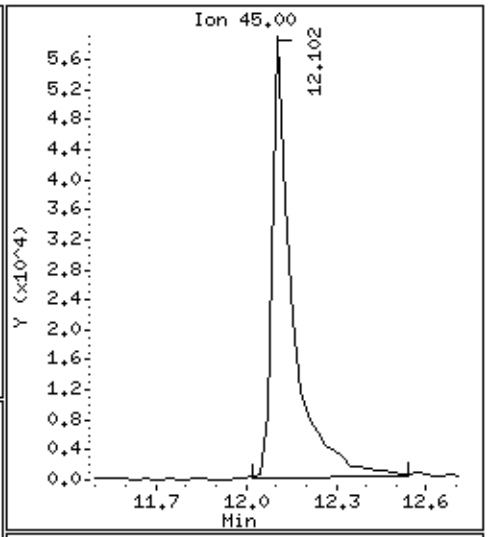
Concentration: 12.437 PPBV

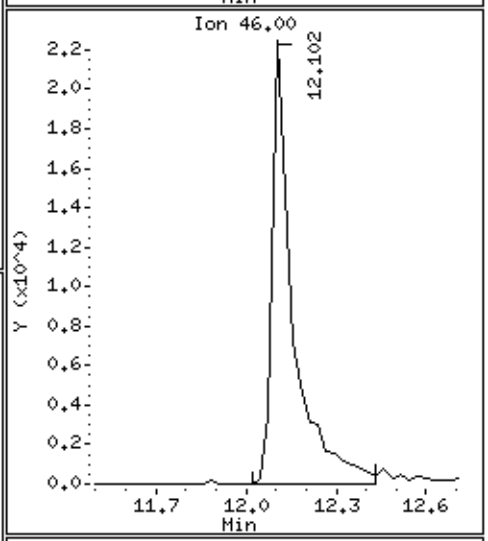


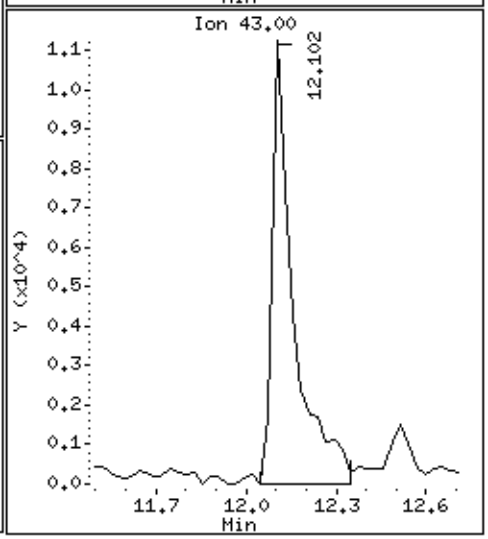












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

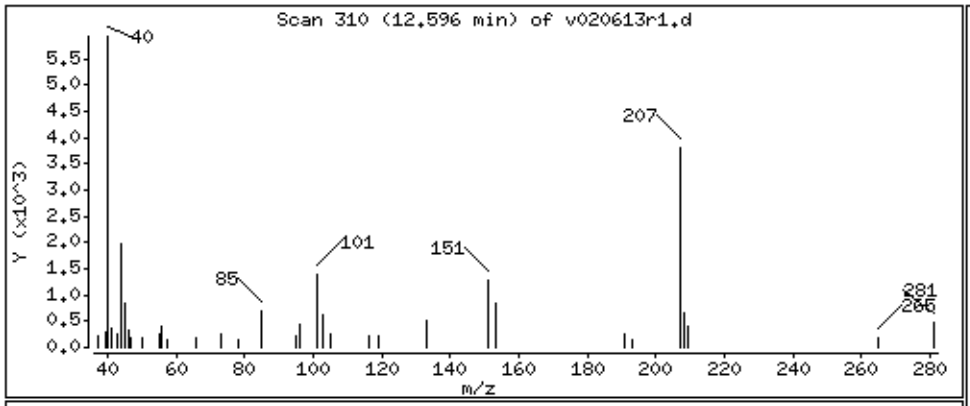
Operator: ef

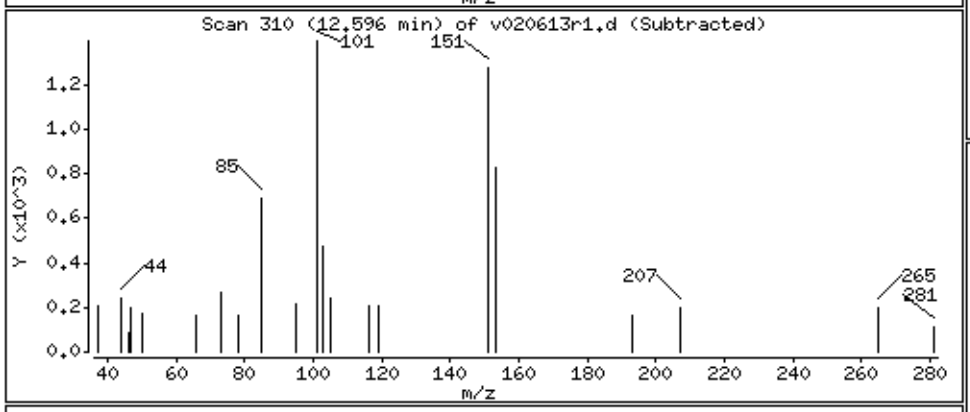
Column phase: RTx-624

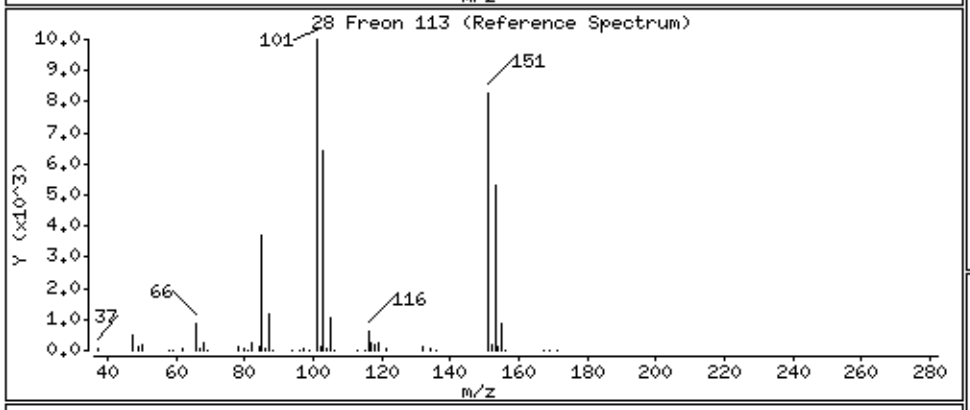
Column diameter: 0.32

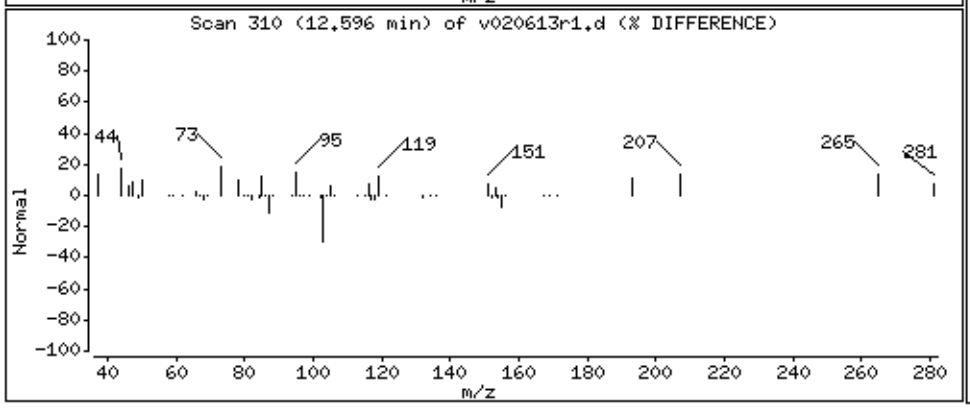
28 Freon 113

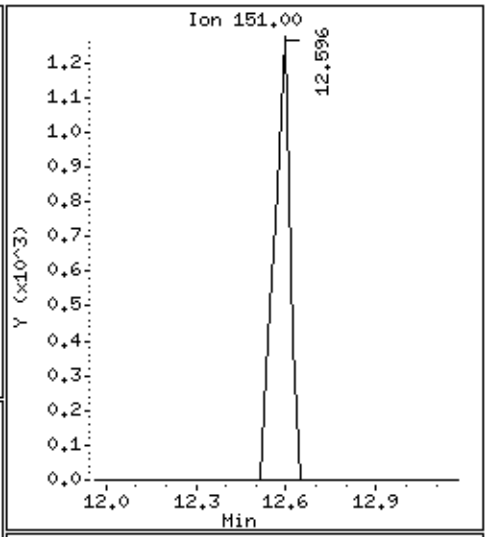
Concentration: 0.06455 PPBV

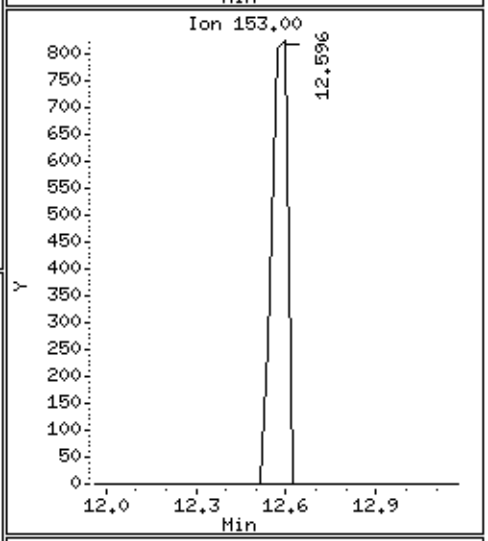


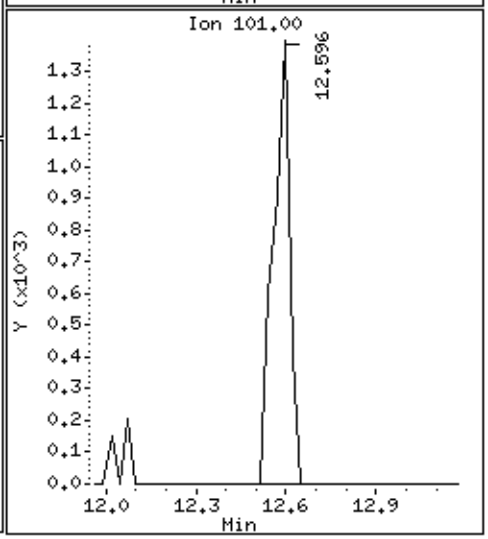












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

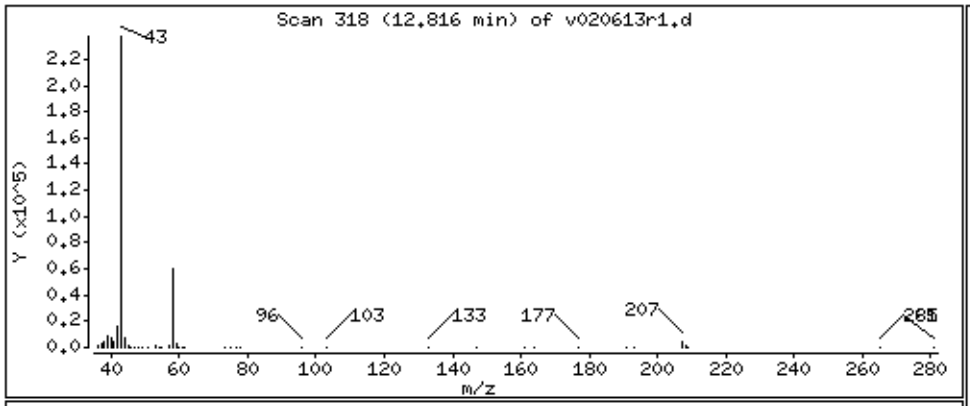
Operator: ef

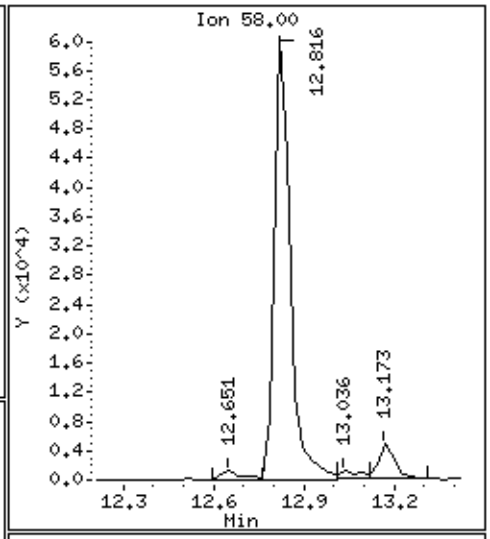
Column phase: RTx-624

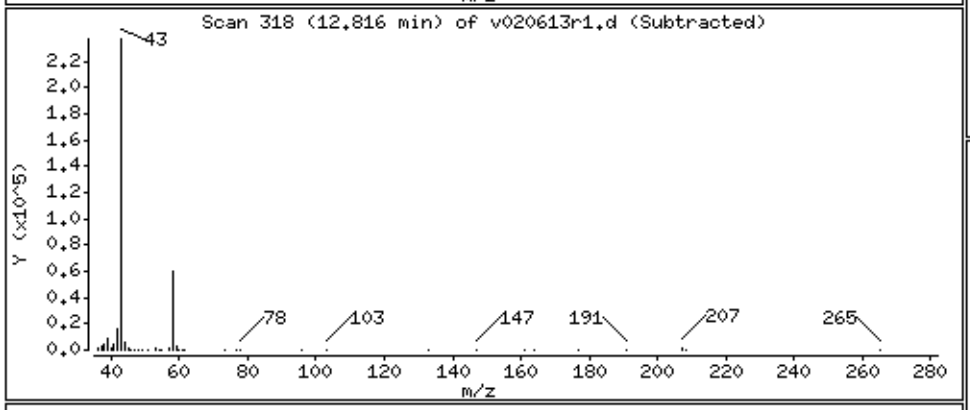
Column diameter: 0.32

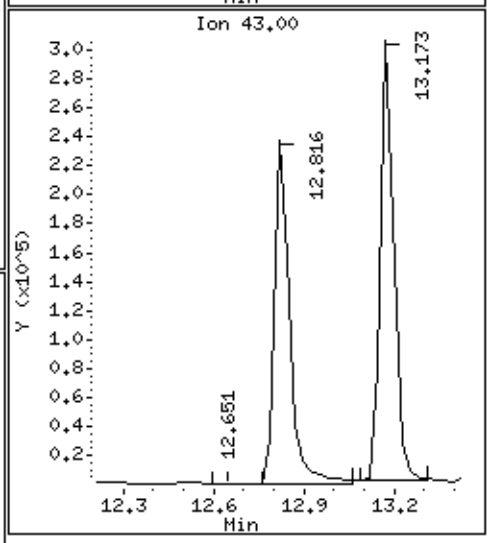
31 Acetone

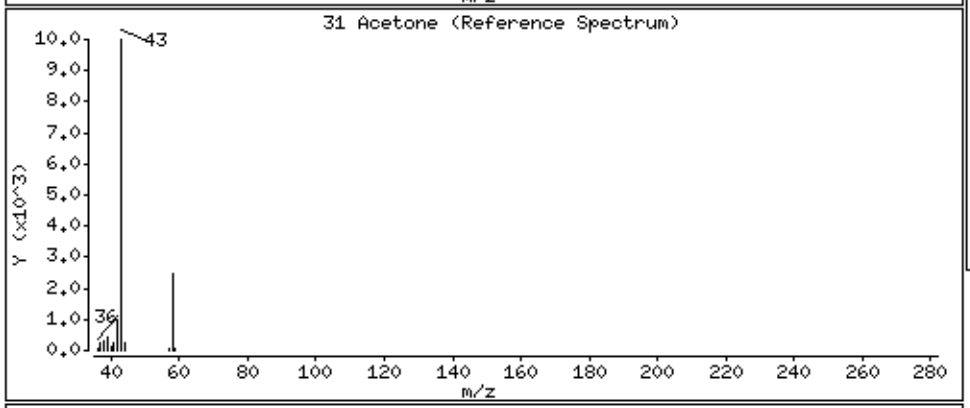
Concentration: 7.925 PPBV

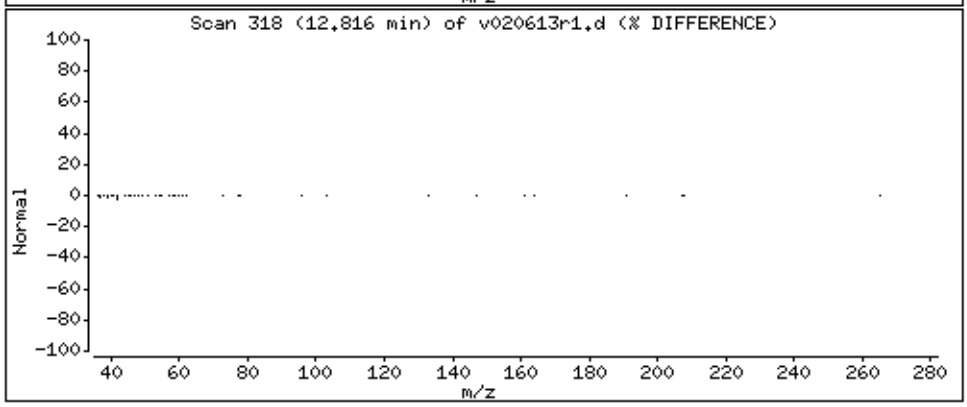












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

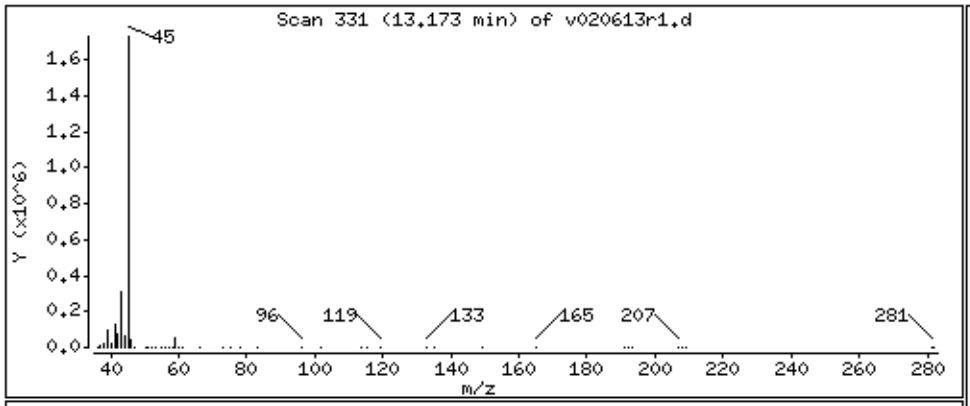
Operator: ef

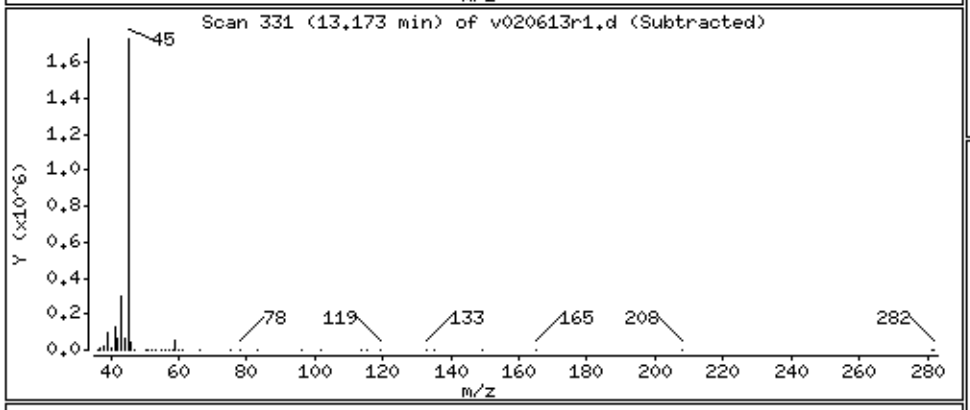
Column phase: RTx-624

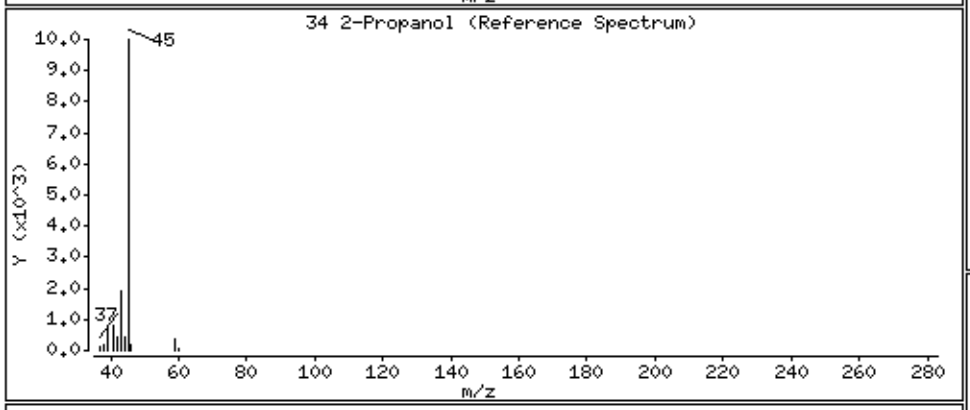
Column diameter: 0.32

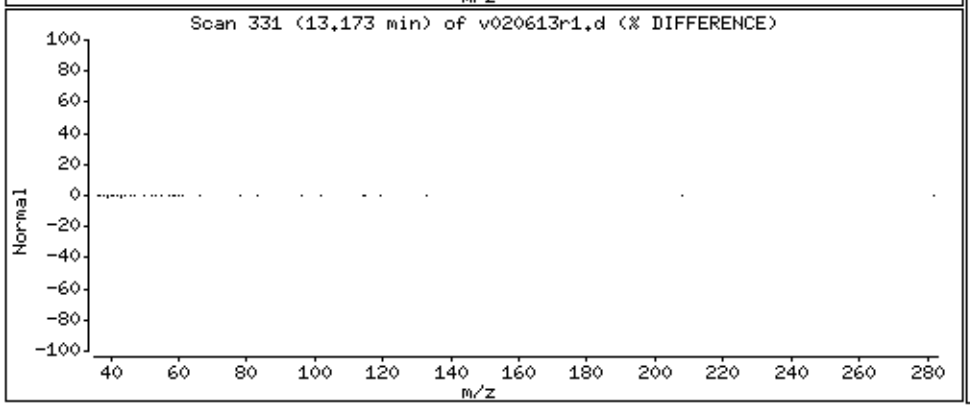
34 2-Propanol

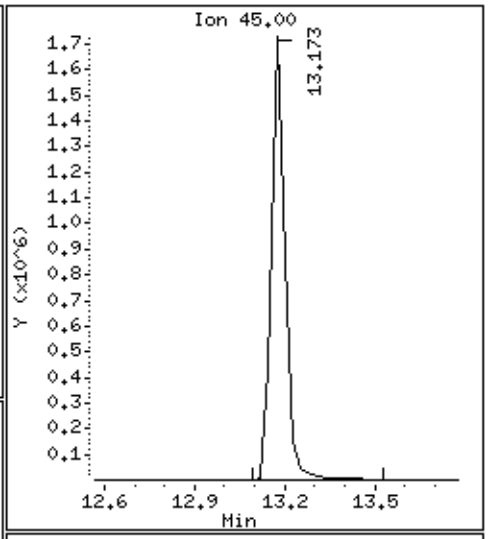
Concentration: 48.570 PPBV

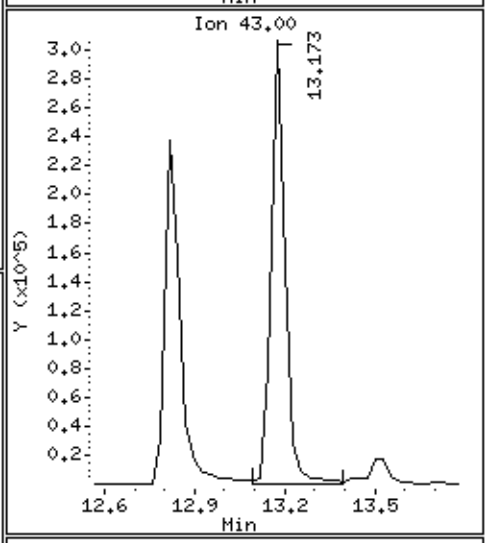


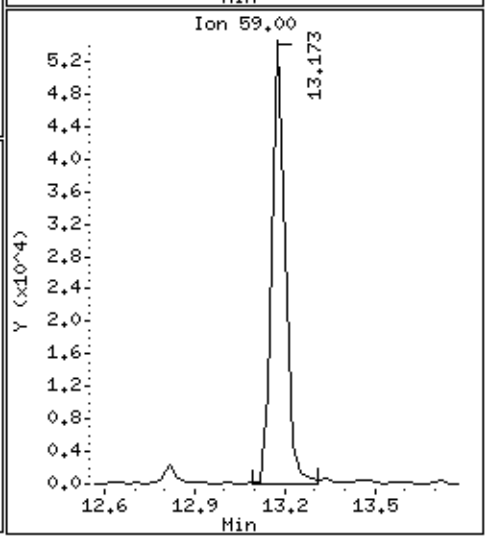












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

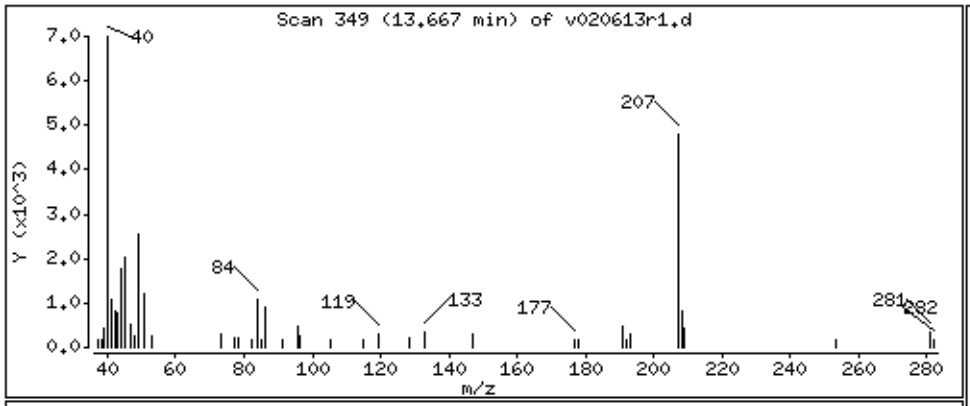
Operator: ef

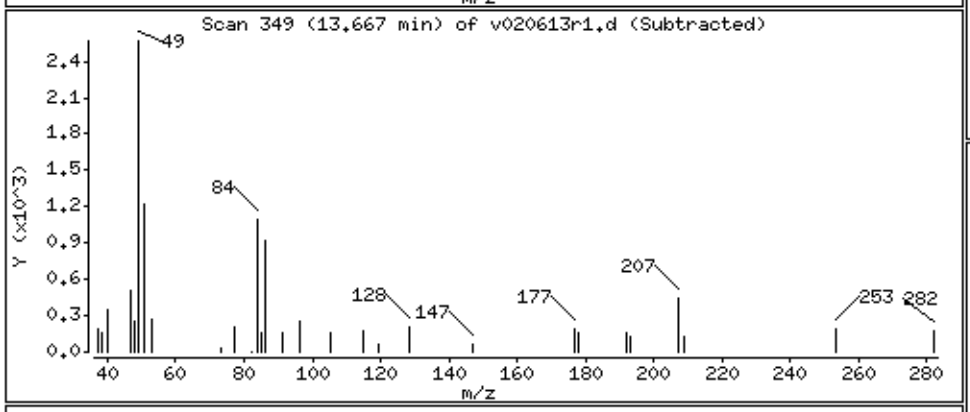
Column phase: RTx-624

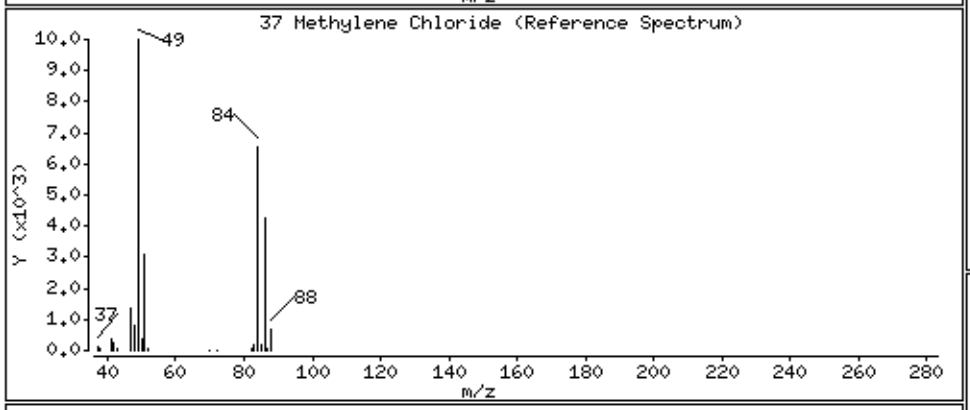
Column diameter: 0.32

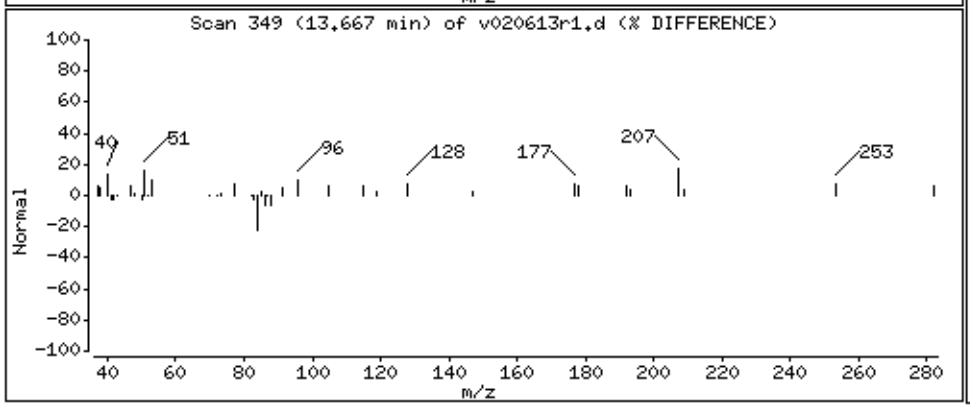
37 Methylene Chloride

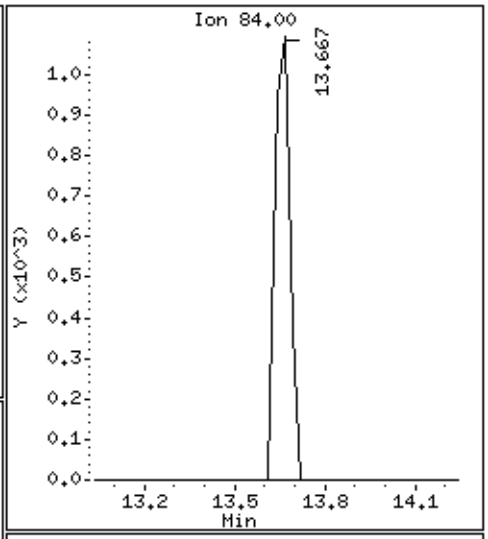
Concentration: 0.1138 PPBV

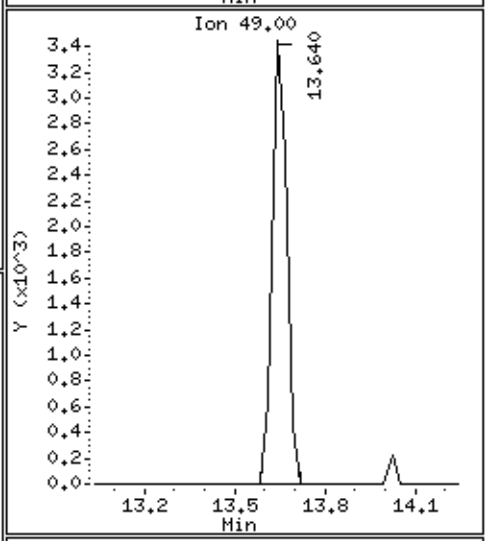


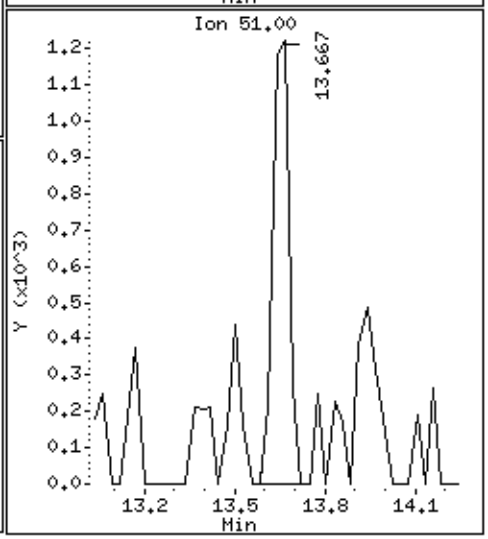












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

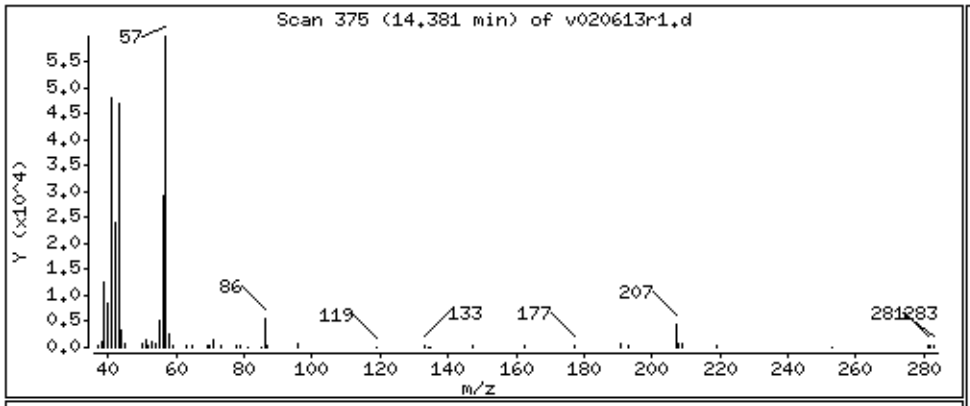
Operator: ef

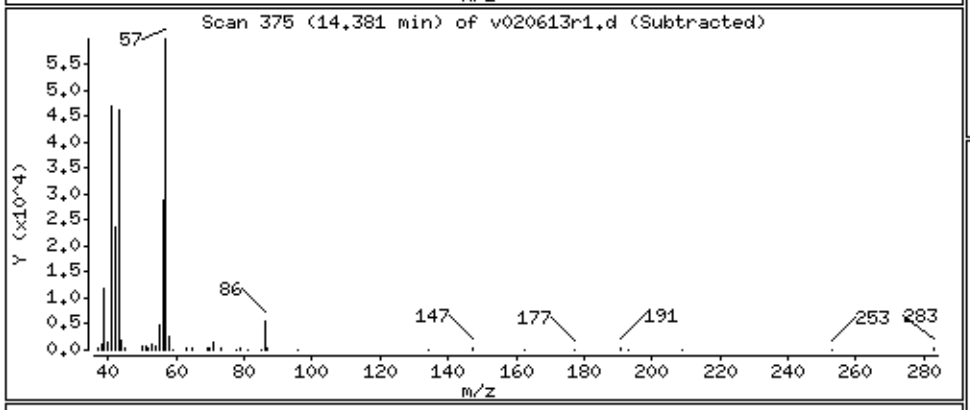
Column phase: RTx-624

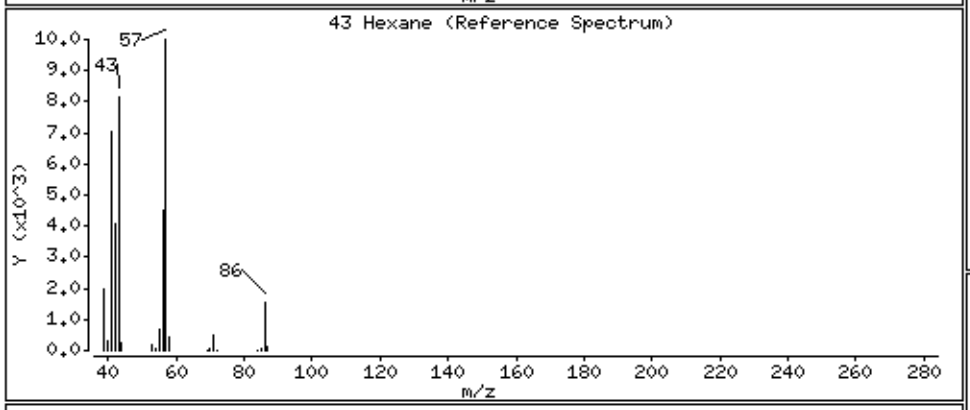
Column diameter: 0.32

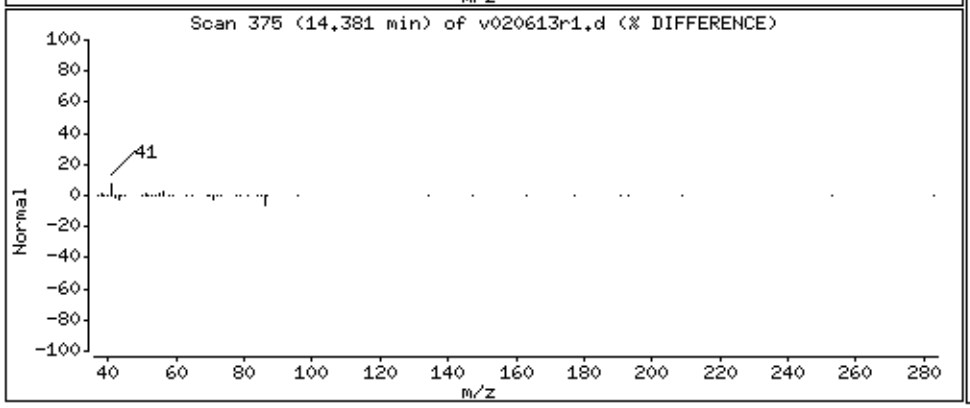
43 Hexane

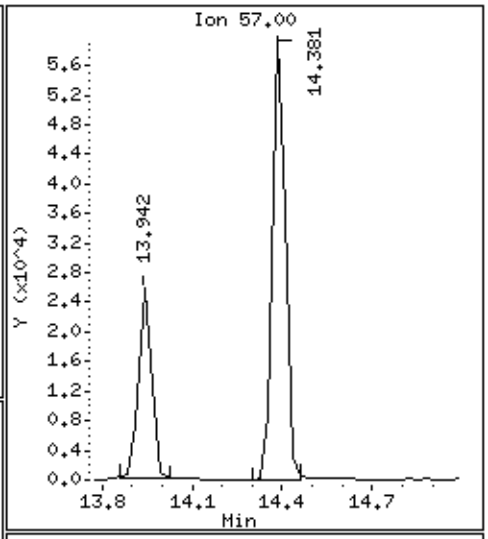
Concentration: 1.815 PPBV

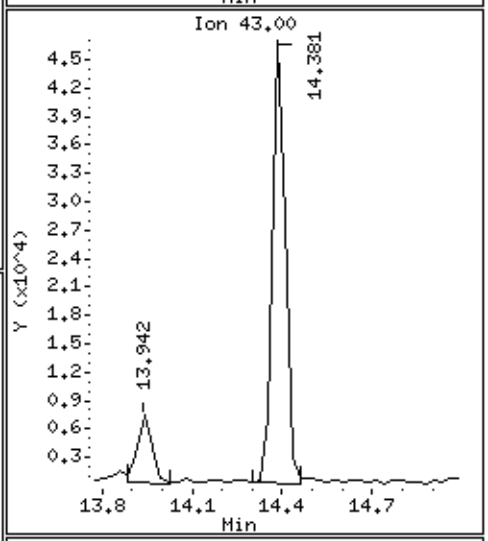


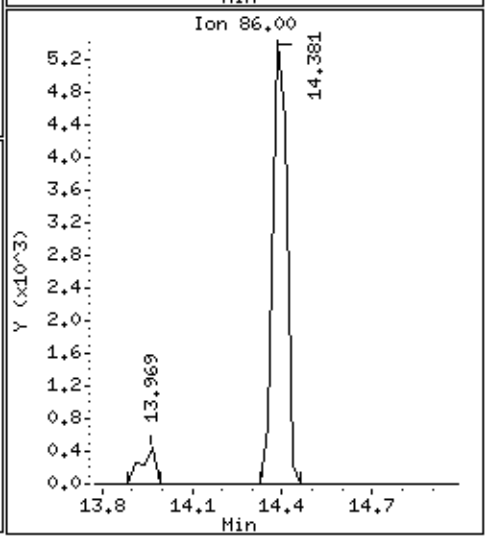












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

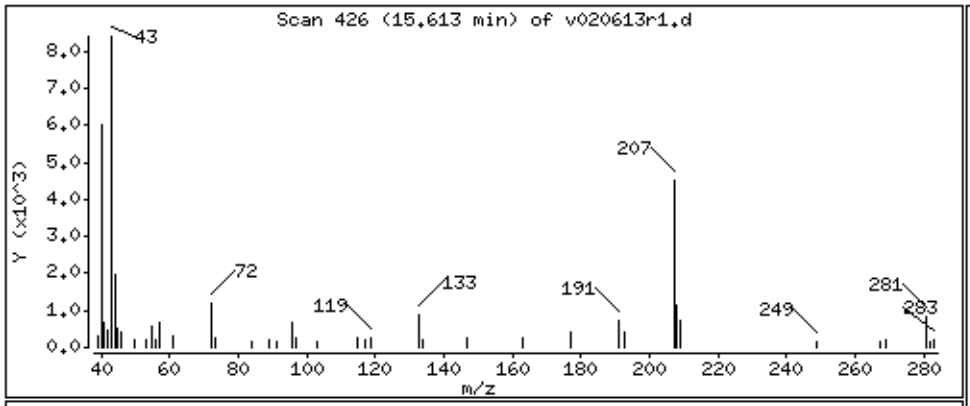
Operator: ef

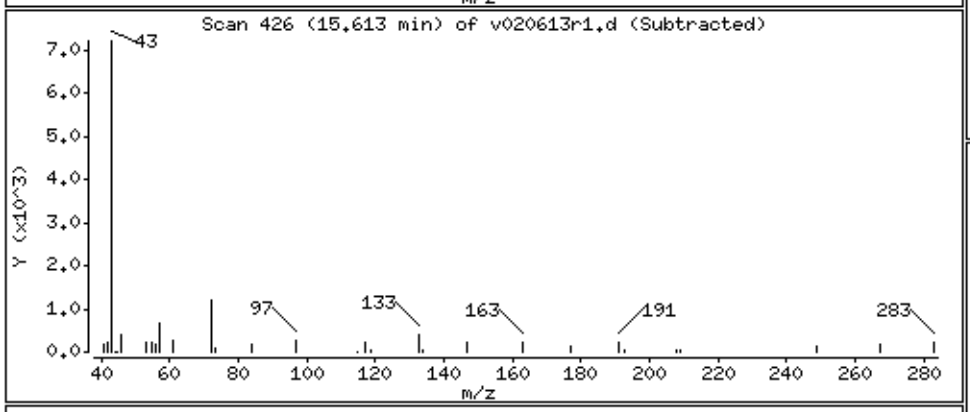
Column phase: RTx-624

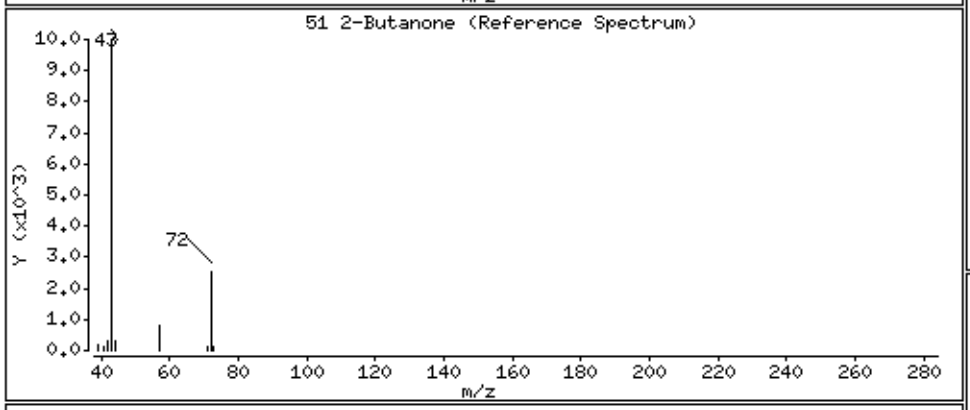
Column diameter: 0.32

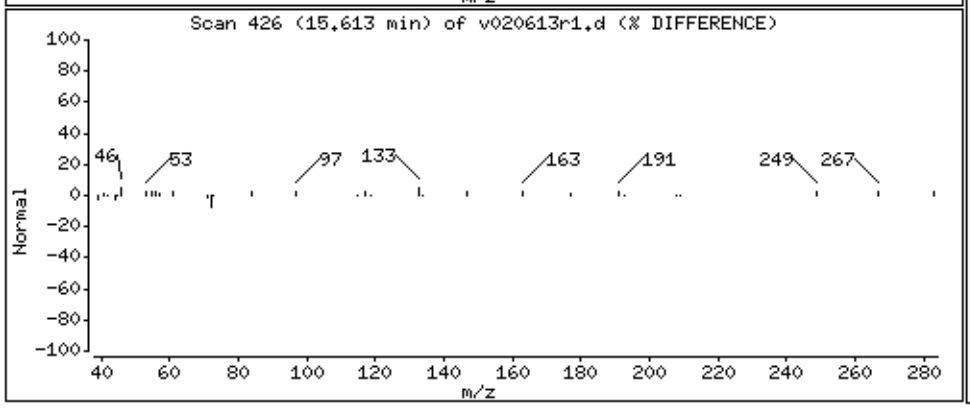
51 2-Butanone

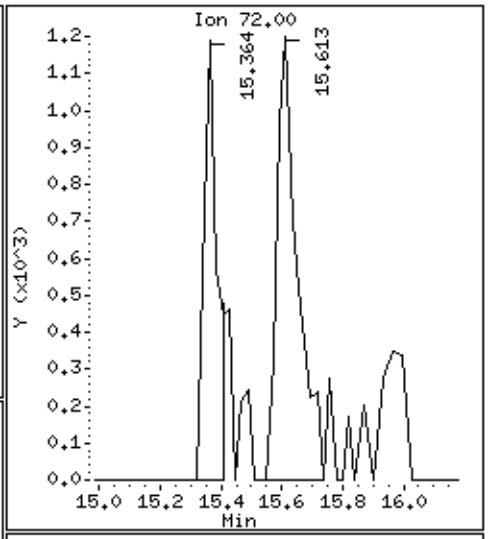
Concentration: 0.2953 PPBV

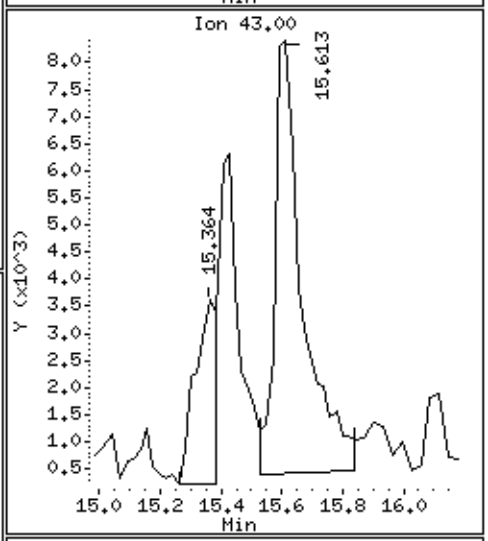


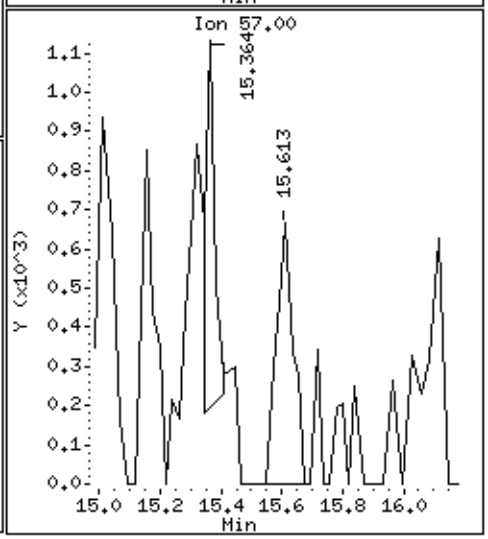












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

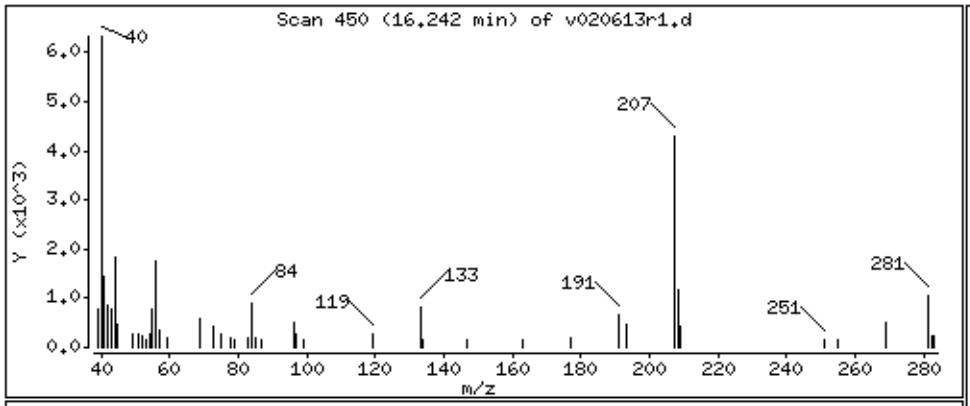
Operator: ef

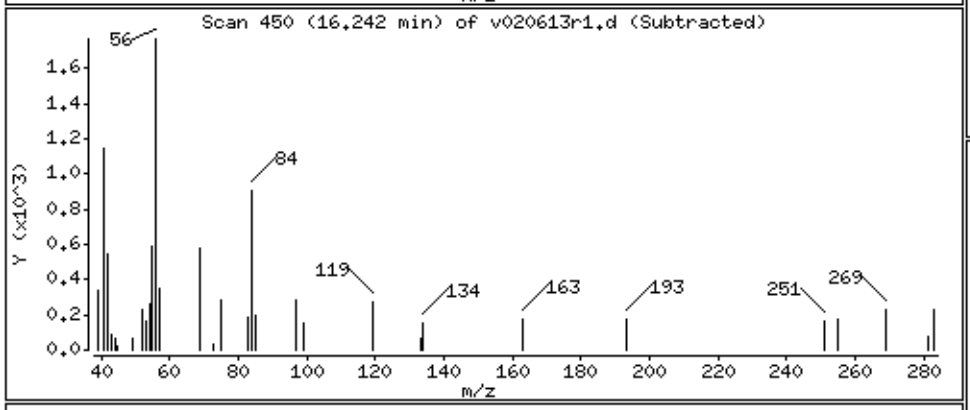
Column phase: RTx-624

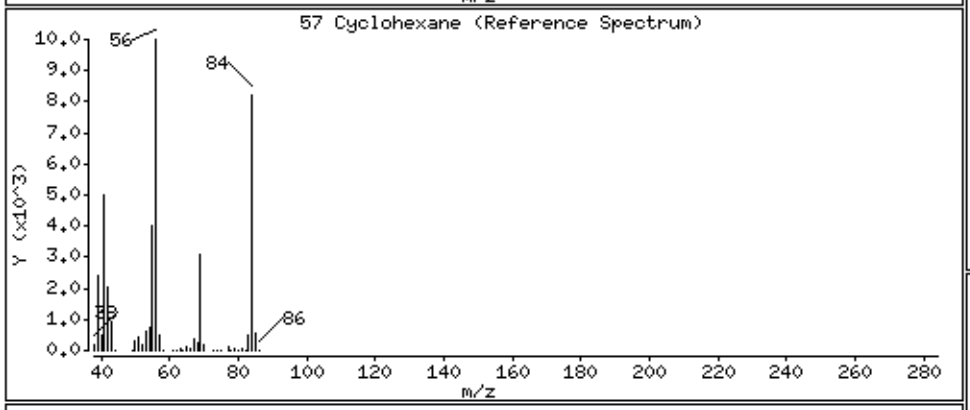
Column diameter: 0.32

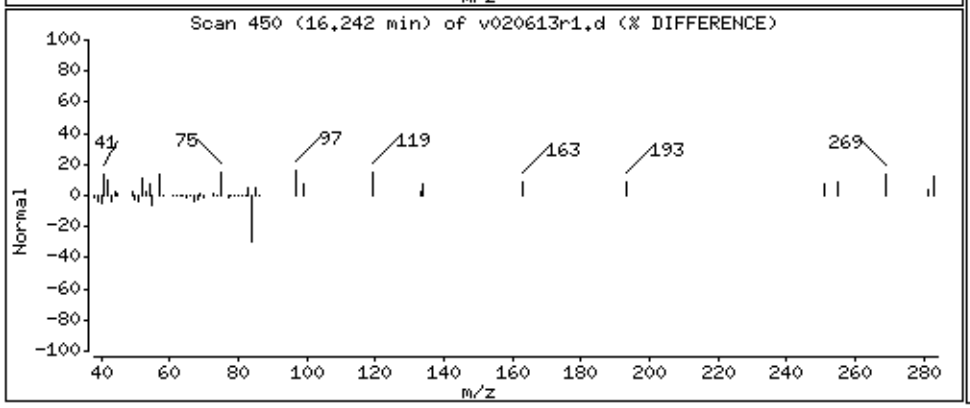
57 Cyclohexane

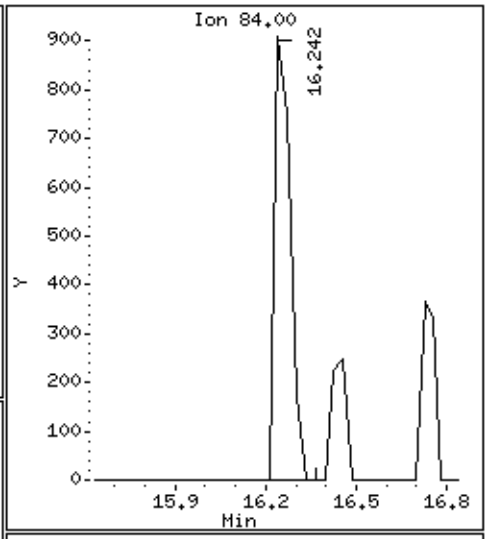
Concentration: 0.05843 PPBV

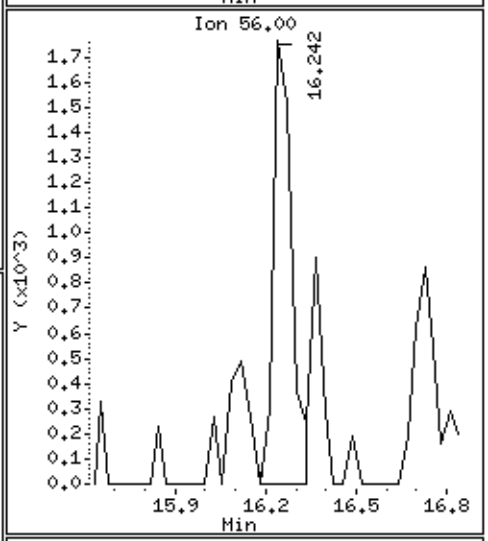


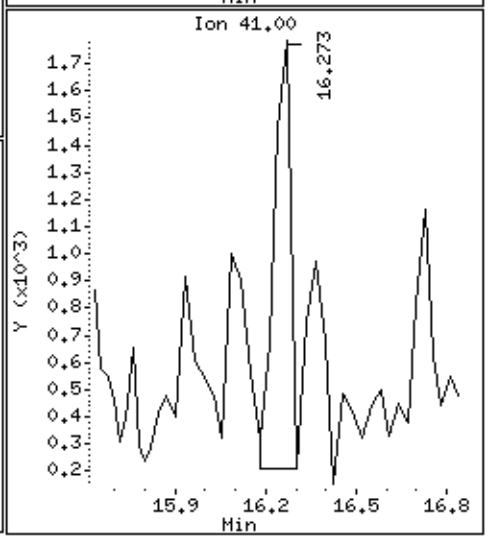












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

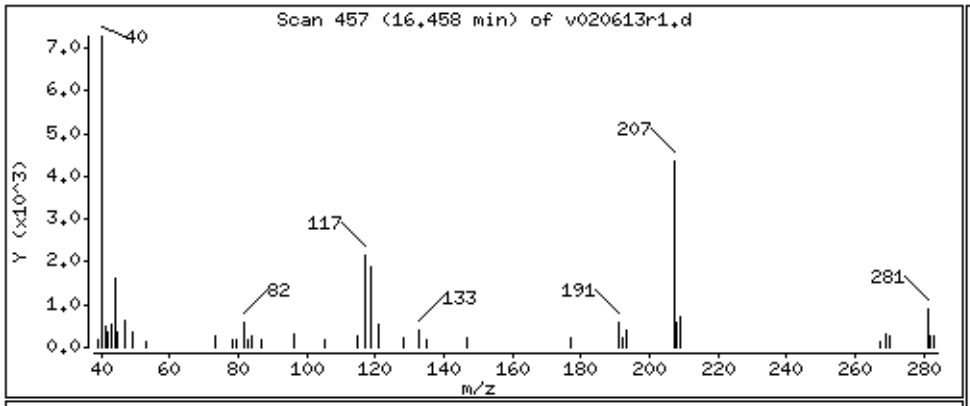
Operator: ef

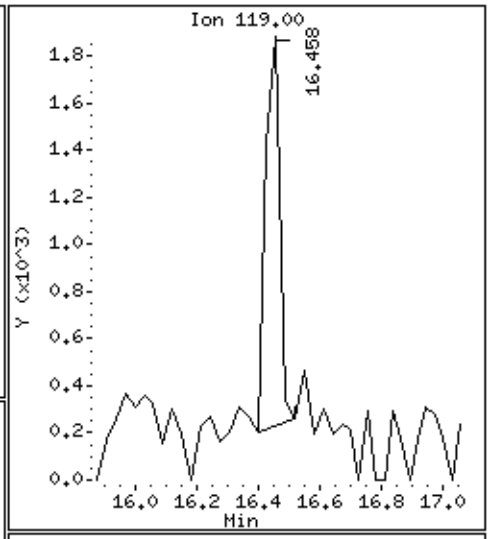
Column phase: RTx-624

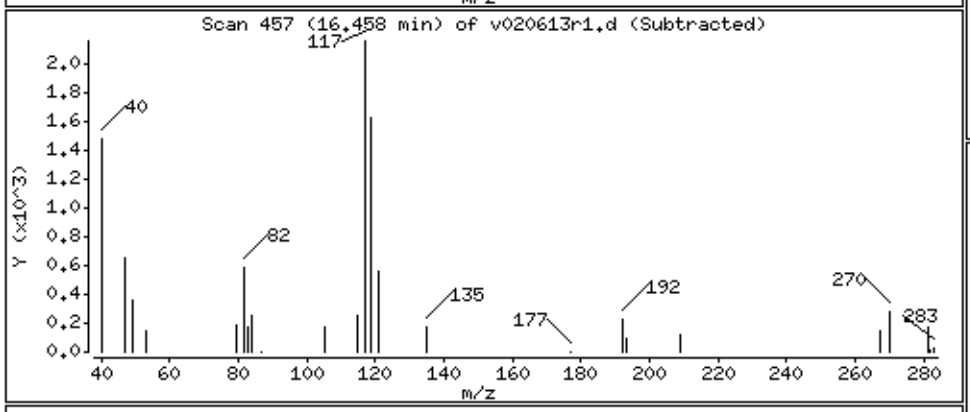
Column diameter: 0.32

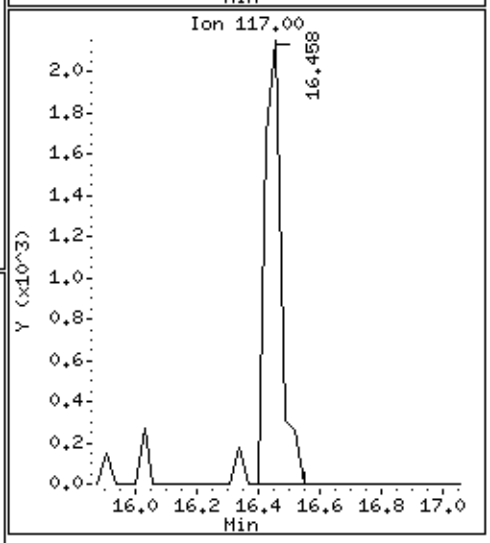
59 Carbon Tetrachloride

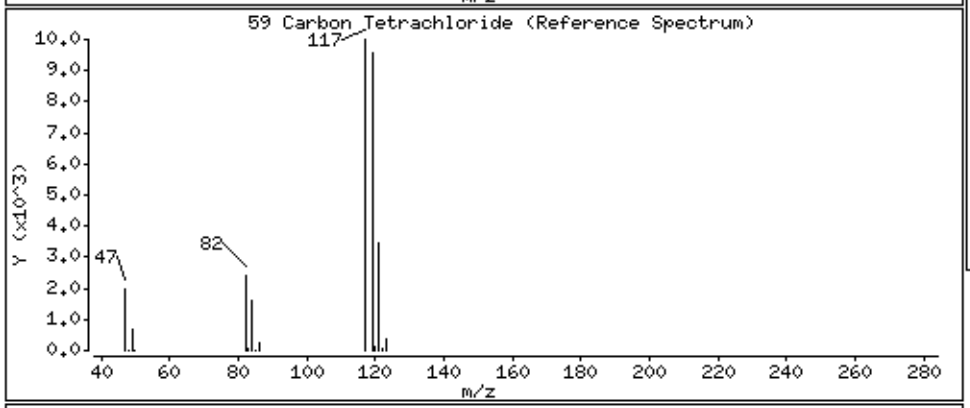
Concentration: 0.06298 PPBV

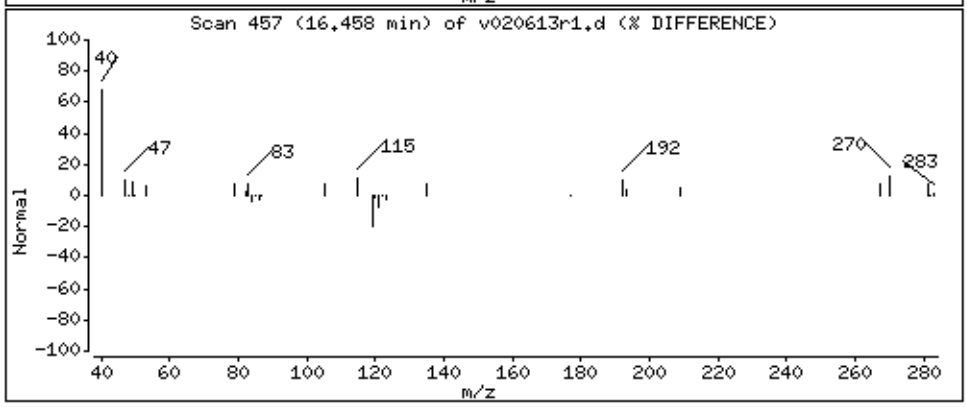












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

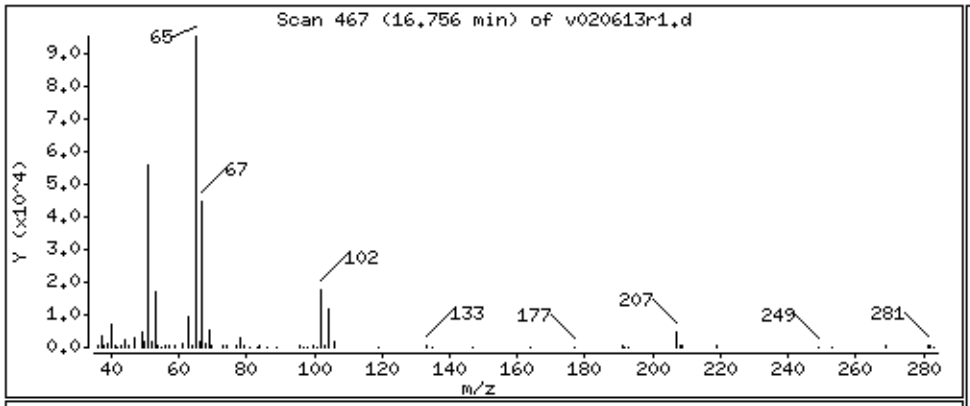
Operator: ef

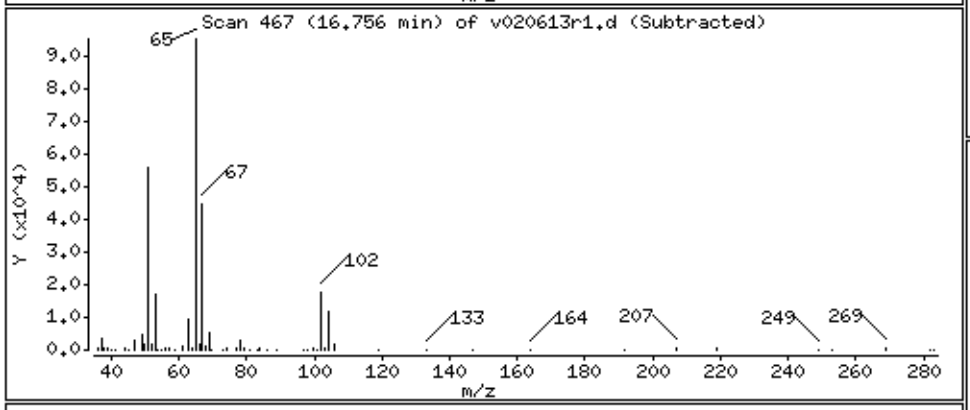
Column phase: RTx-624

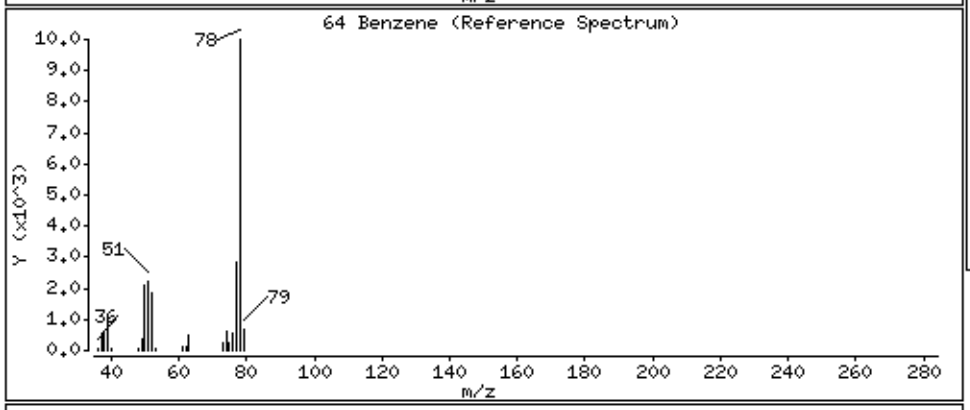
Column diameter: 0.32

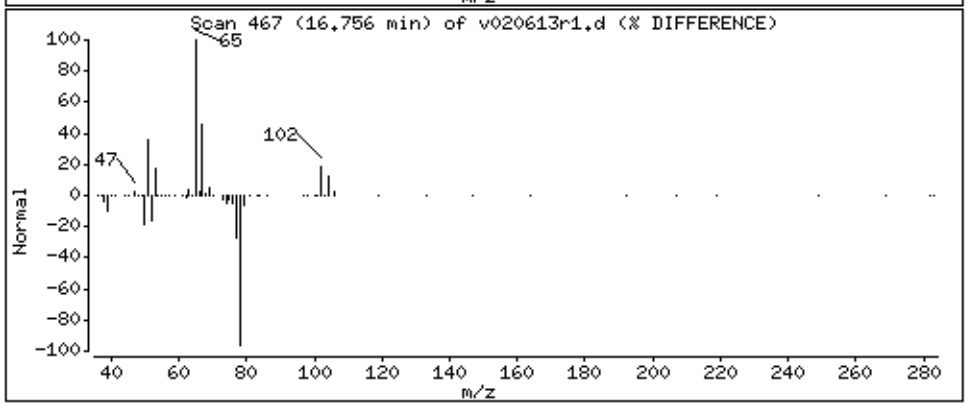
64 Benzene

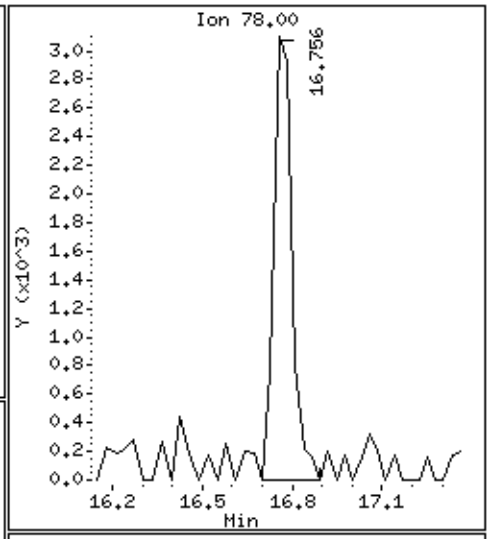
Concentration: 0.1041 PPBV

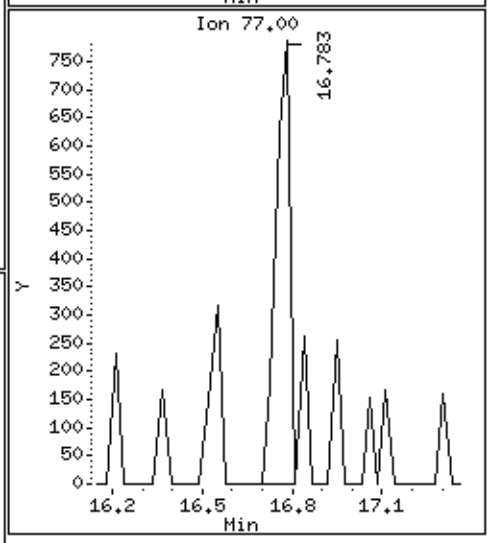












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

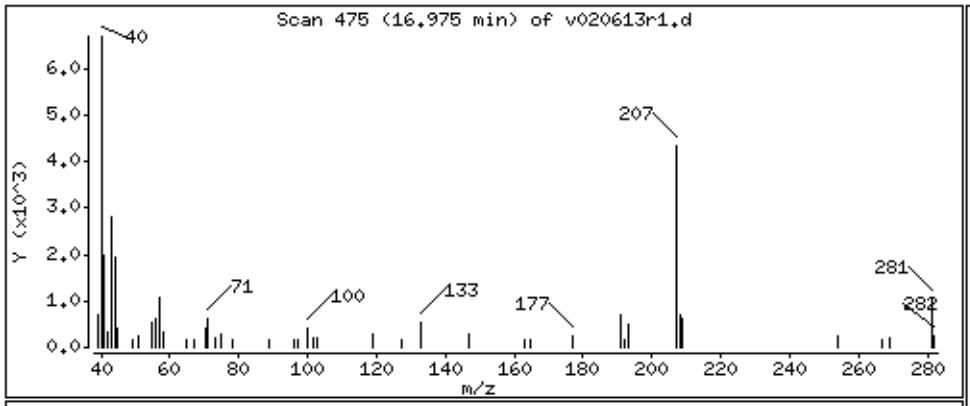
Operator: ef

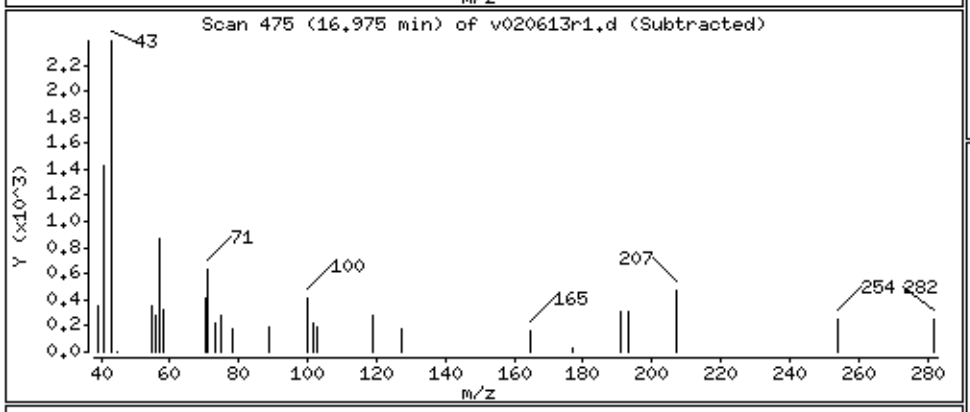
Column phase: RTx-624

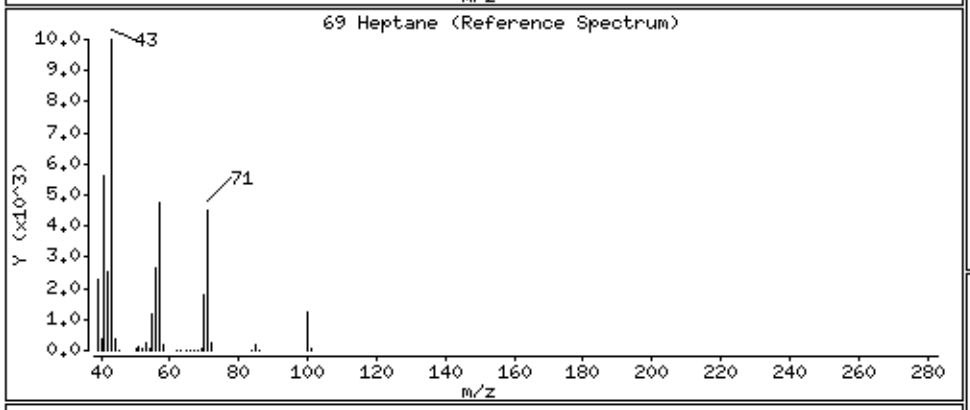
Column diameter: 0.32

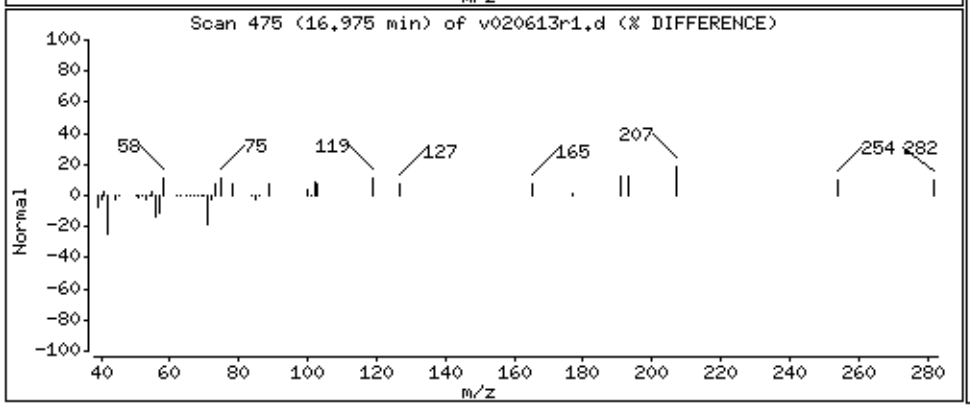
69 Heptane

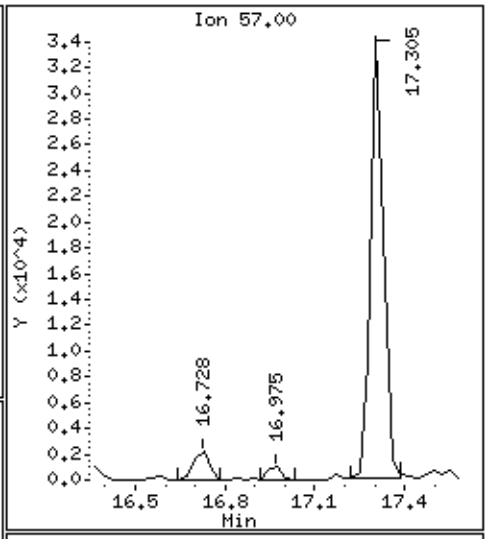
Concentration: 0.05786 PPBV

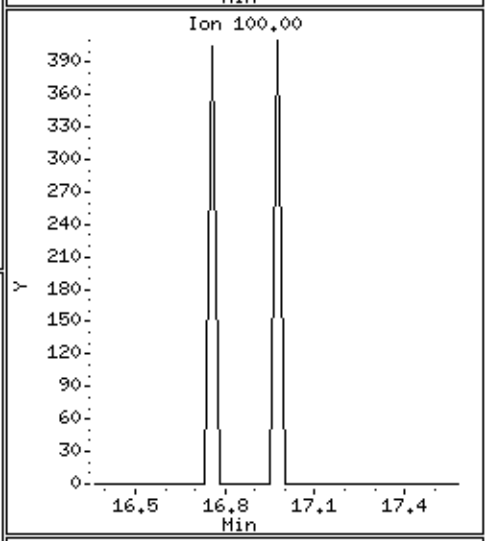


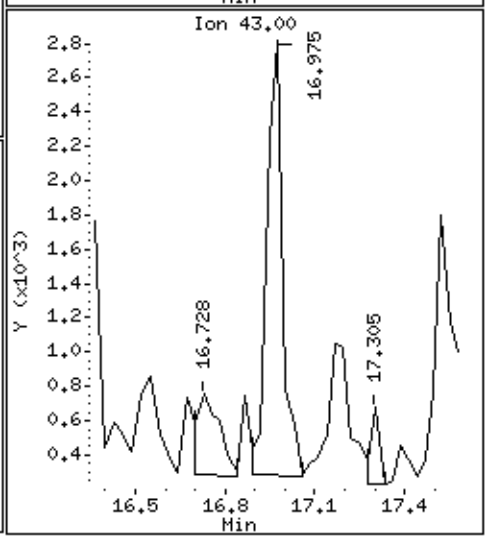












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

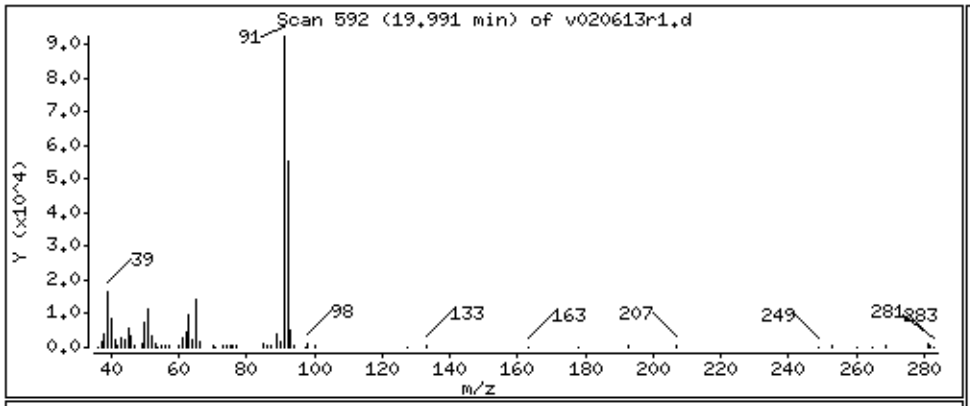
Operator: ef

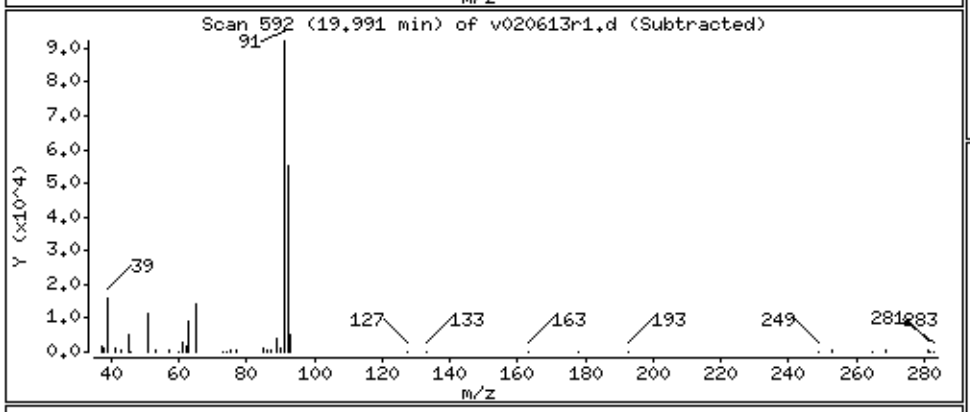
Column phase: RTx-624

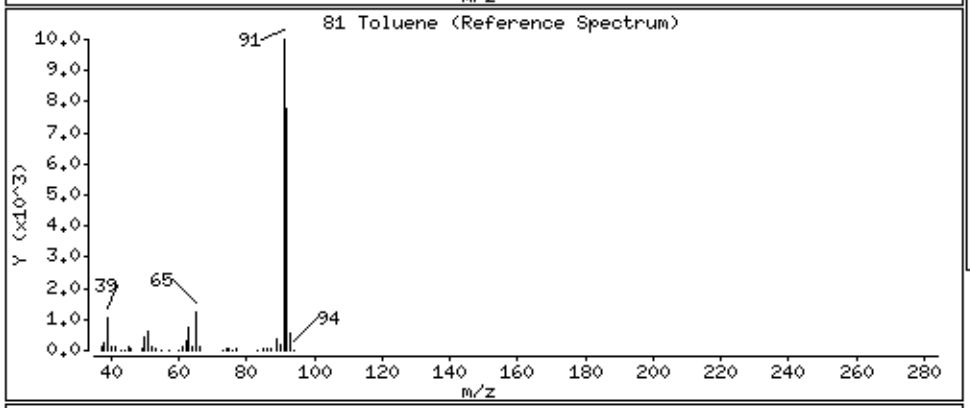
Column diameter: 0.32

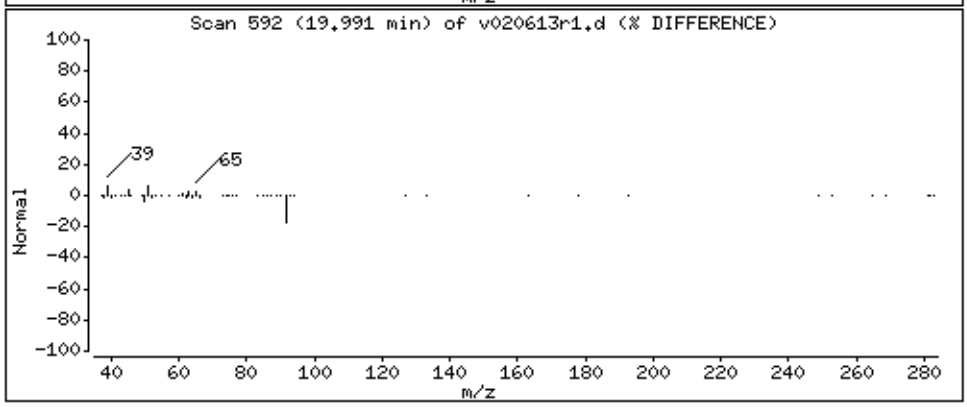
81 Toluene

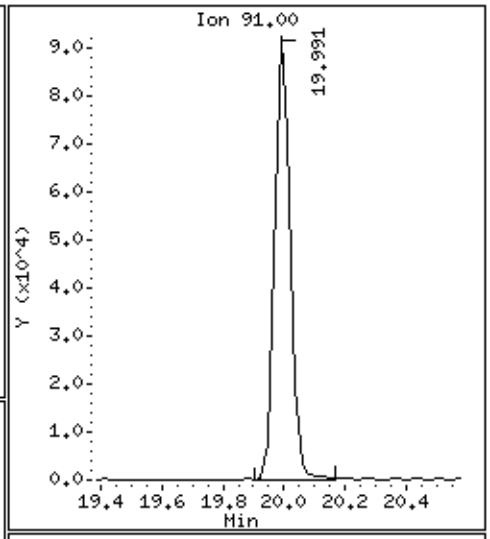
Concentration: 2.301 PPBV

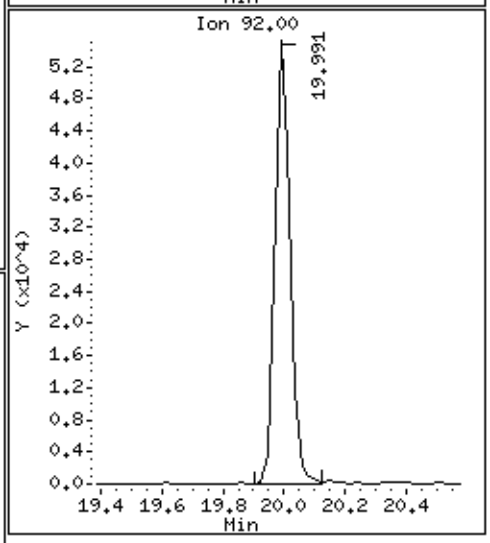












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

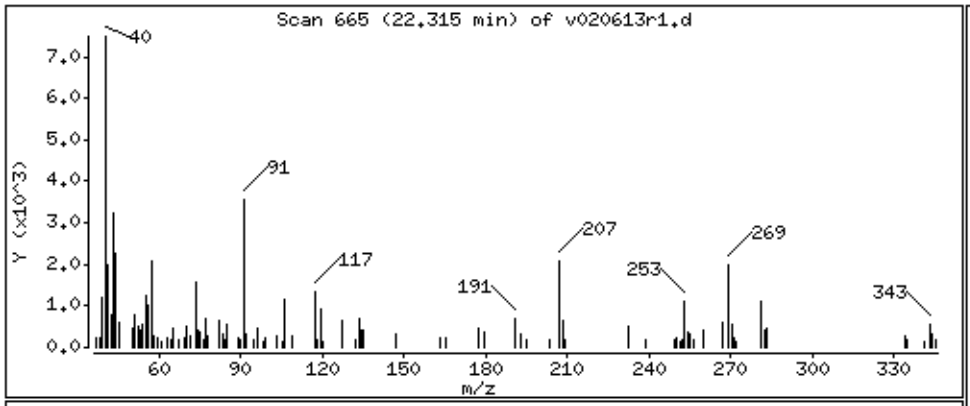
Operator: ef

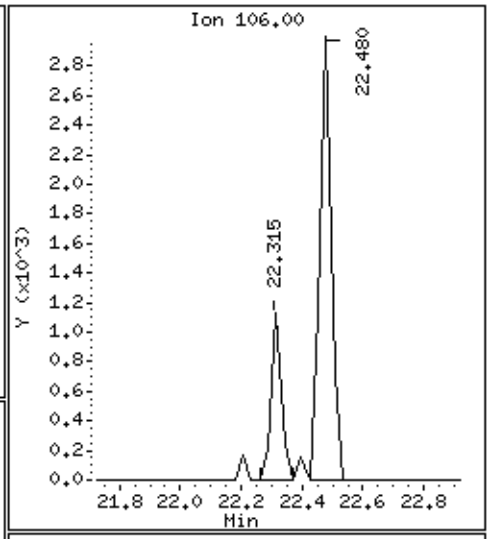
Column phase: RTx-624

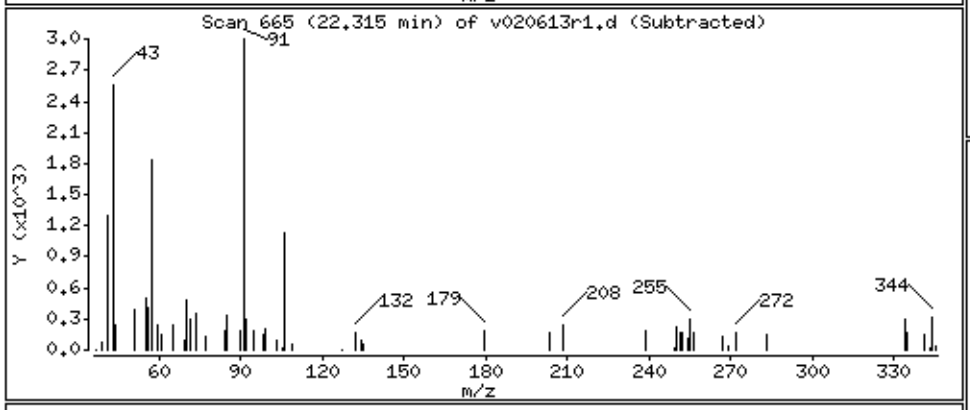
Column diameter: 0.32

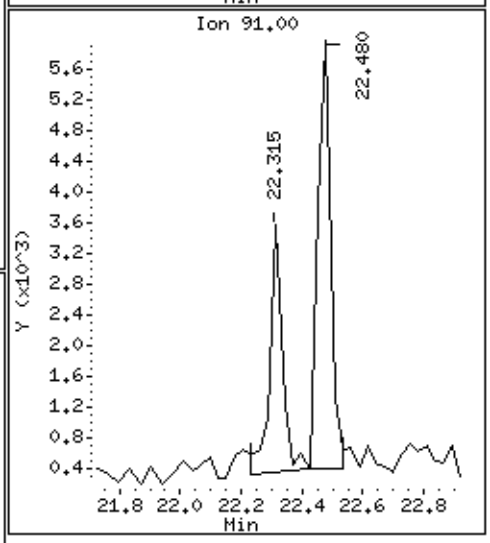
95 Ethyl Benzene

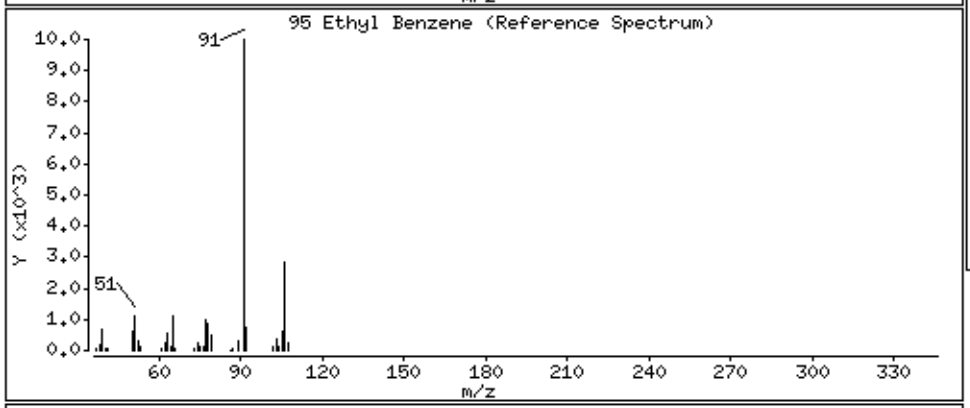
Concentration: 0.04502 PPBV

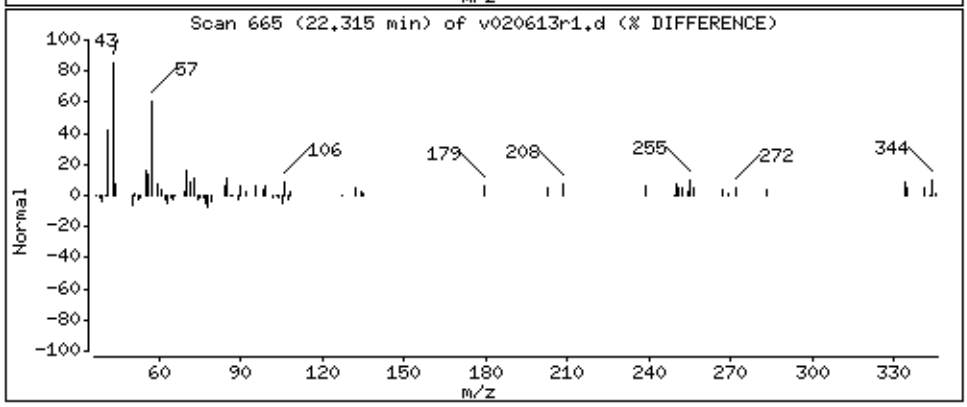












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

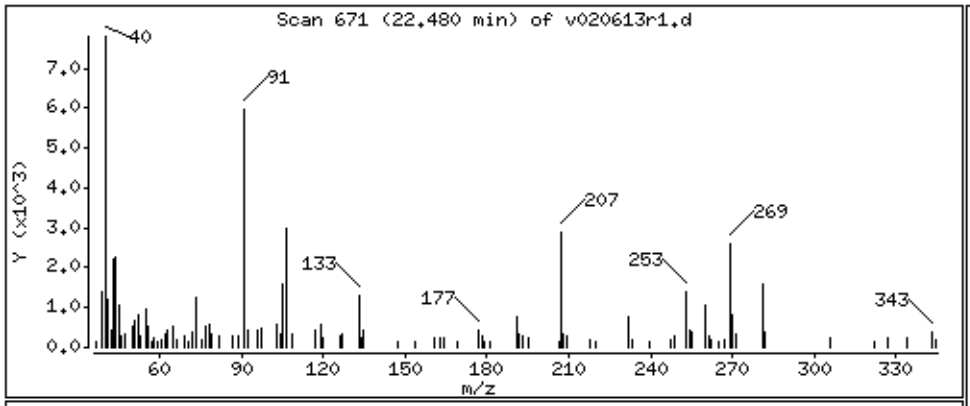
Operator: ef

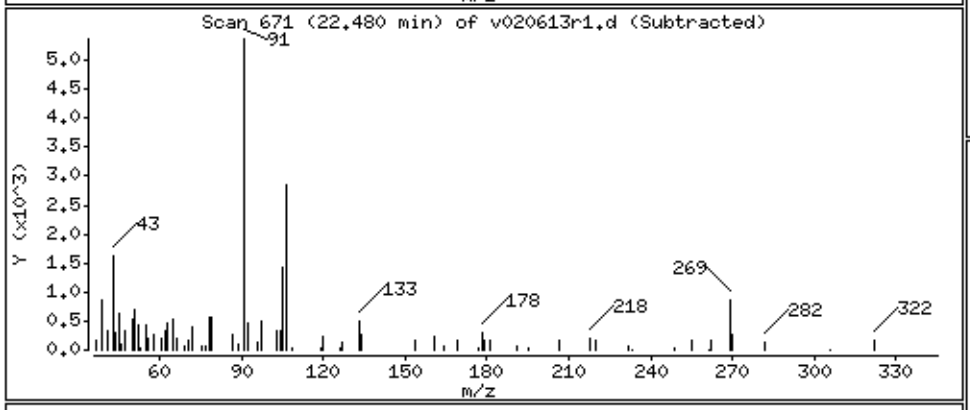
Column phase: RTx-624

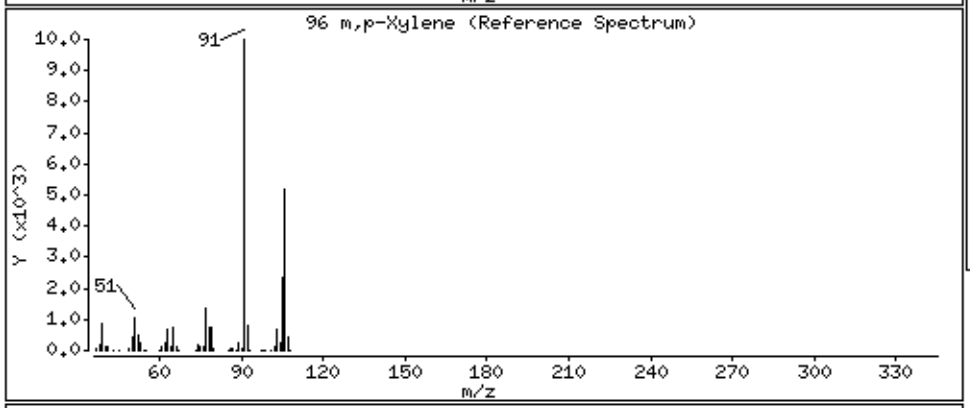
Column diameter: 0.32

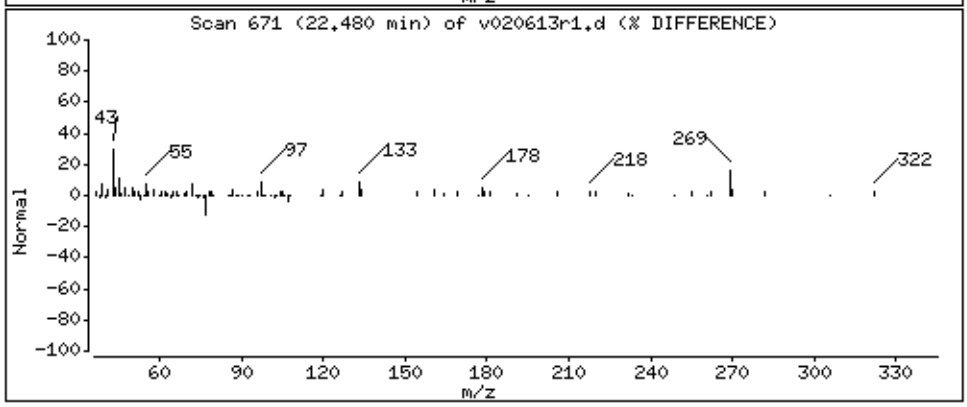
96 m,p-Xylene

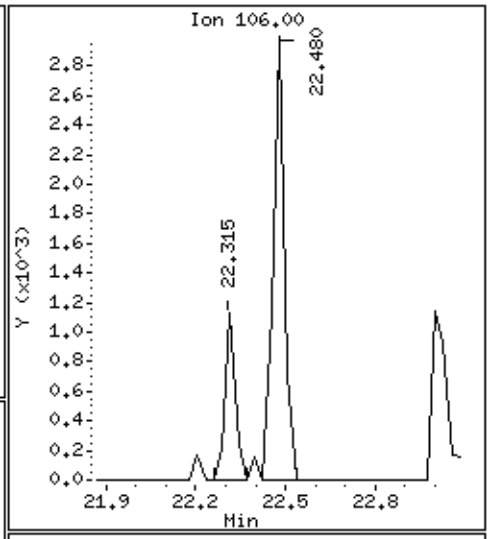
Concentration: 0.1356 PPBV

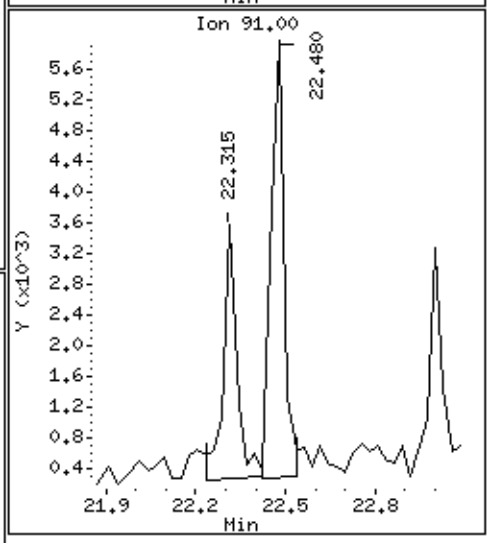












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

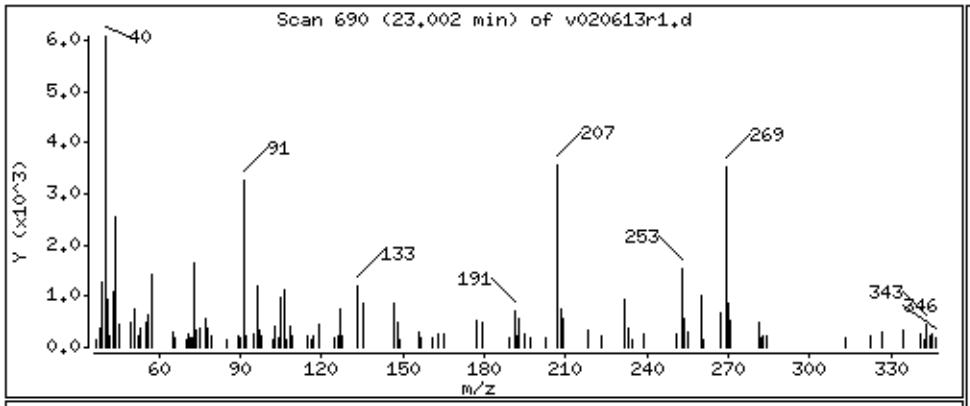
Operator: ef

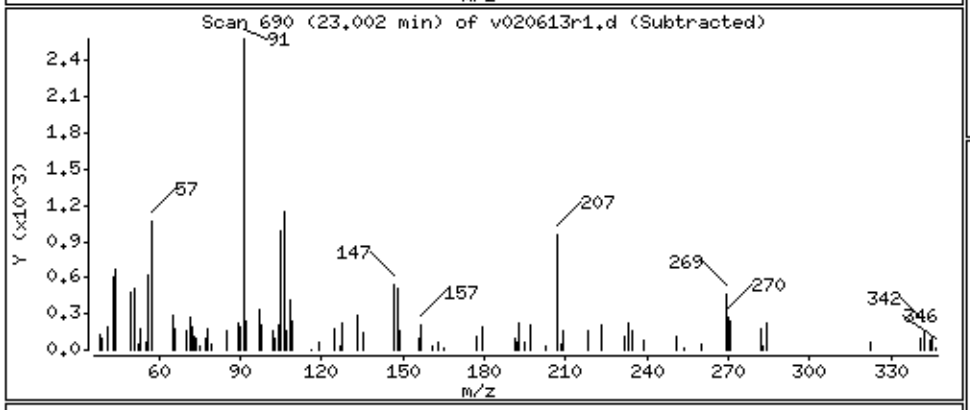
Column phase: RTx-624

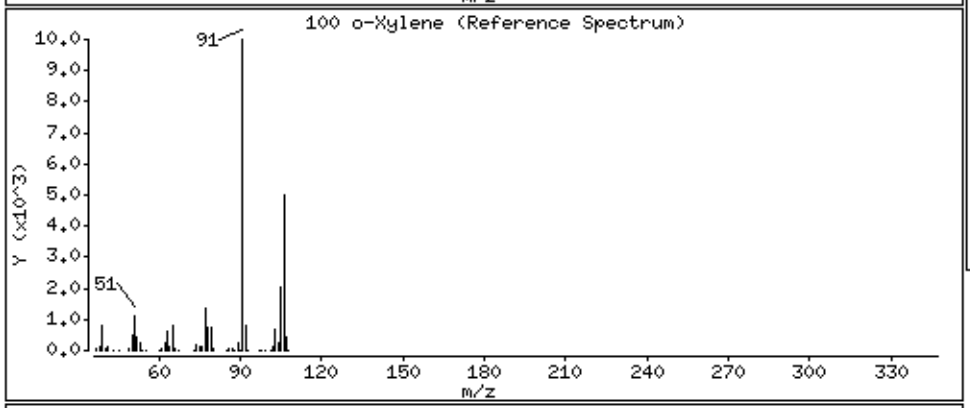
Column diameter: 0.32

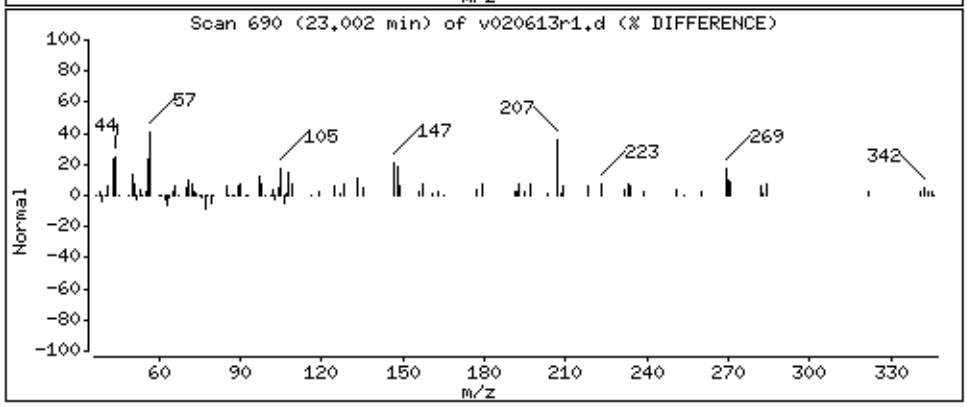
100 o-Xylene

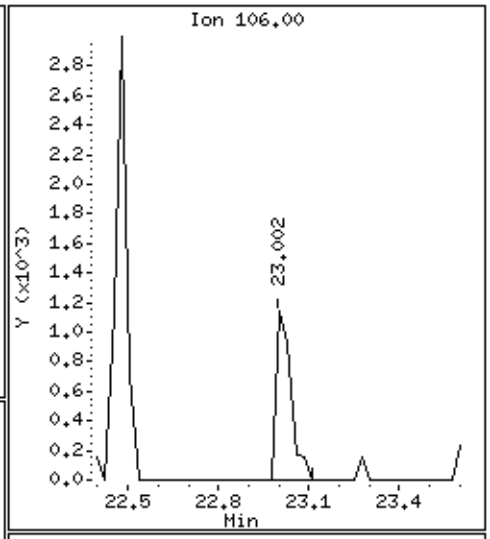
Concentration: 0.07254 PPBV

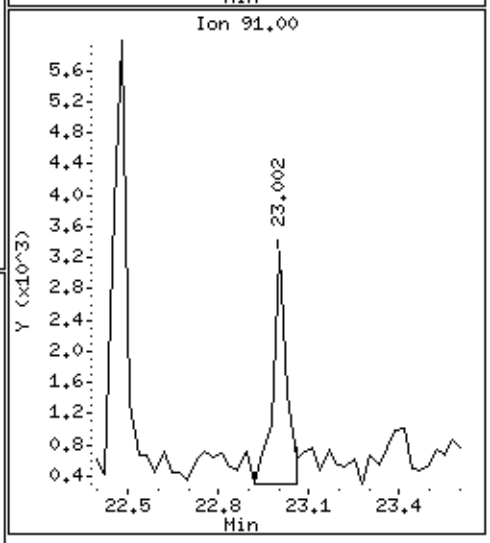












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

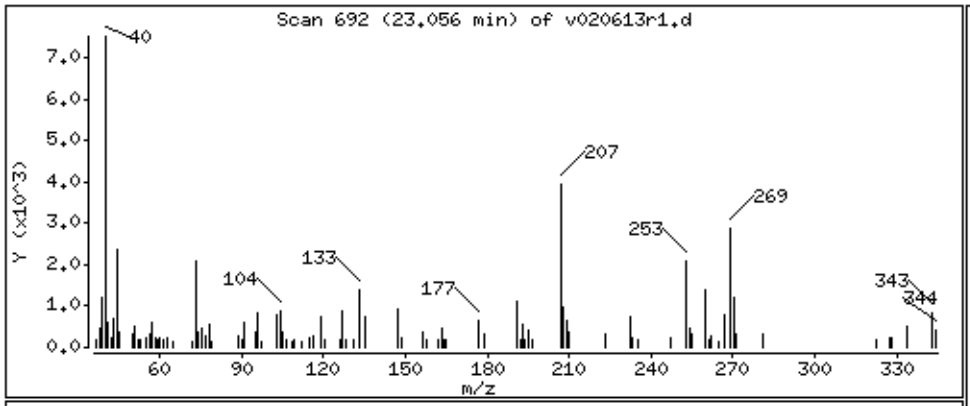
Operator: ef

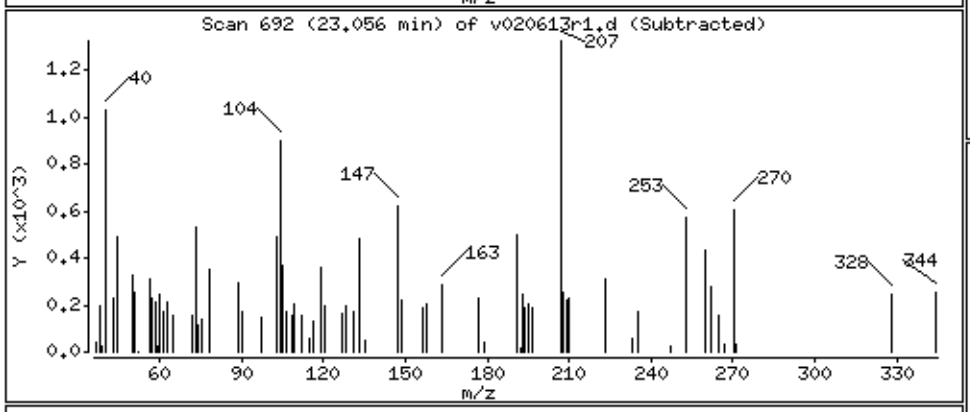
Column phase: RTx-624

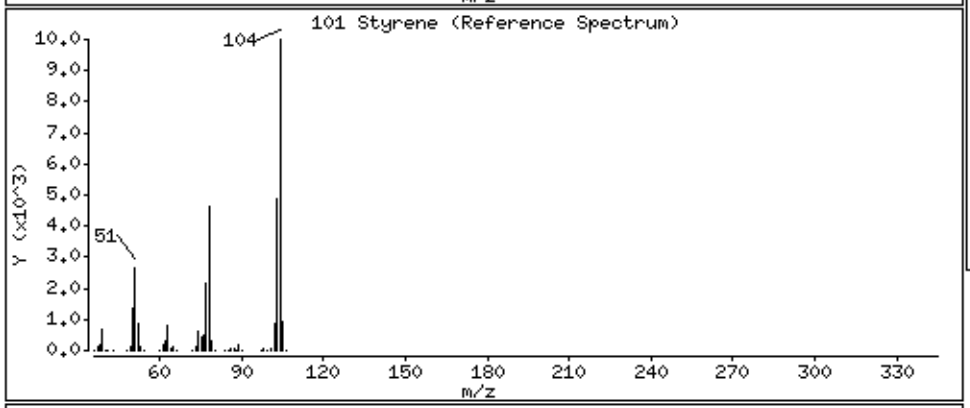
Column diameter: 0.32

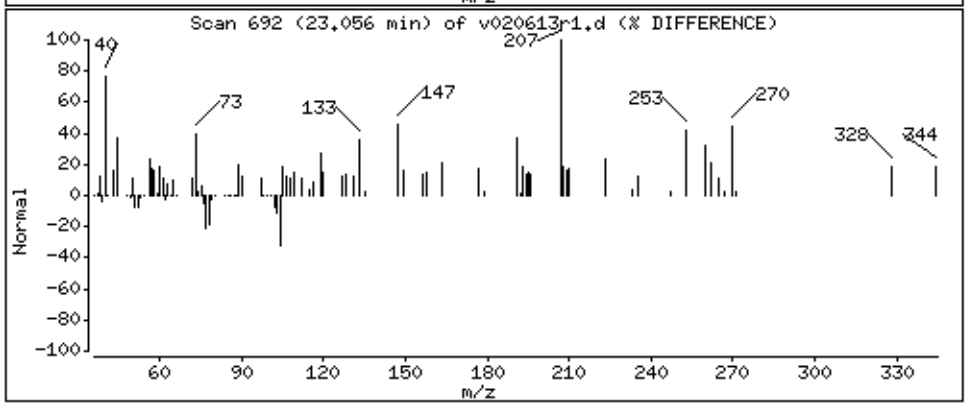
101 Styrene

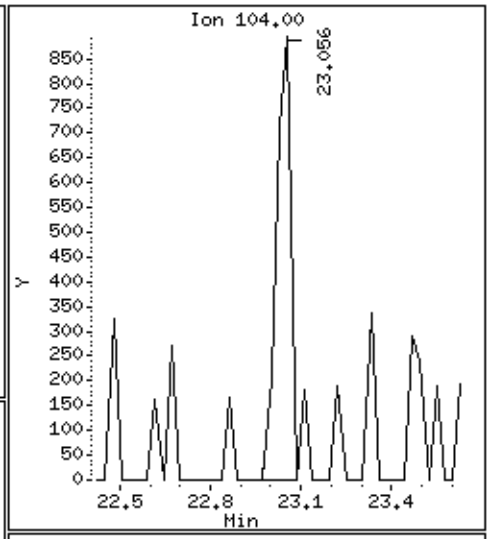
Concentration: 0.03686 PPBV

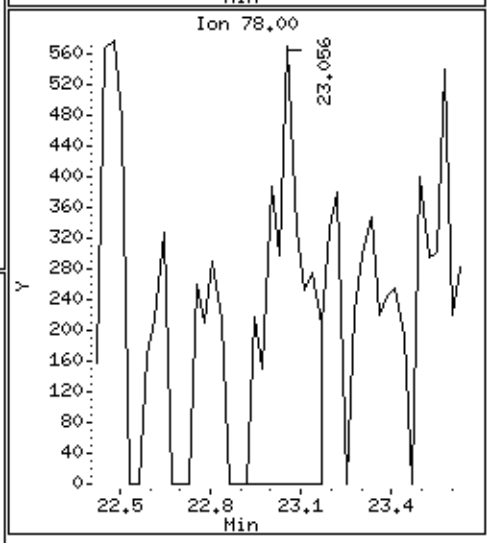












Data File: /chem/msdv.i/06Feb2015.b/v020613r1.d

Date : 06-FEB-2015 14:48

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 35174

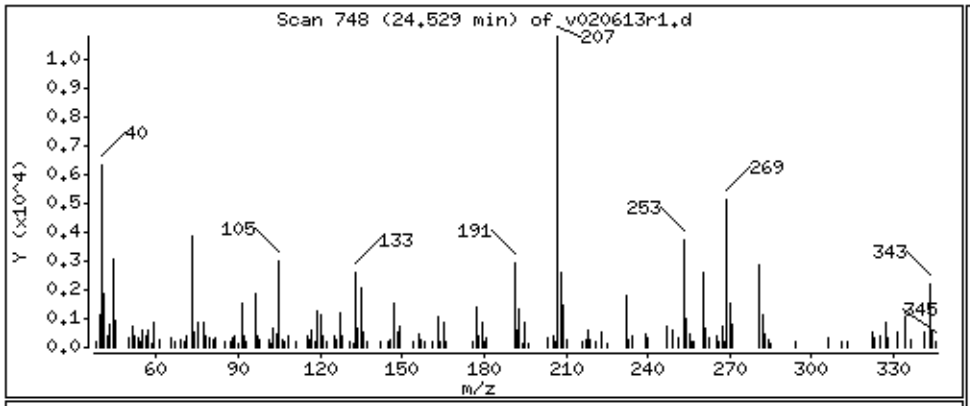
Operator: ef

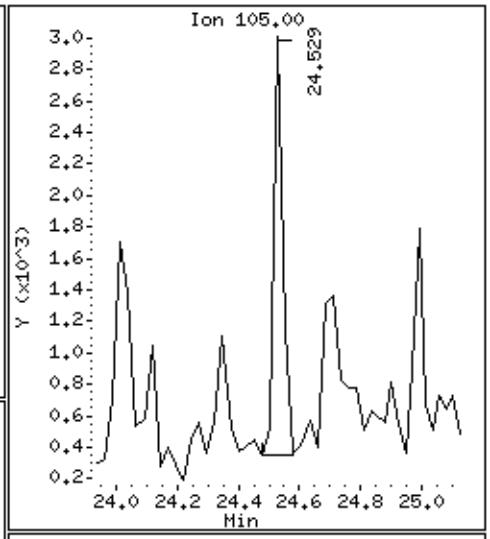
Column phase: RTx-624

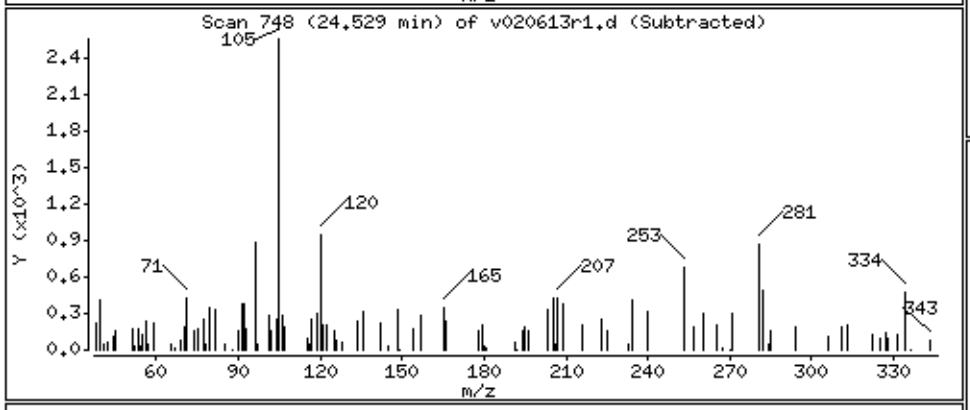
Column diameter: 0.32

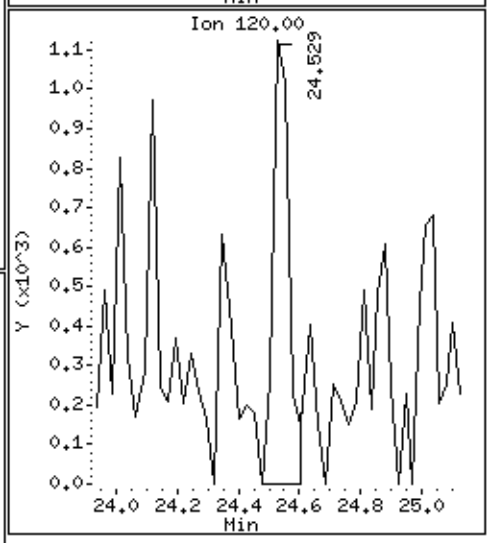
120 1,2,4-Trimethylbenzene

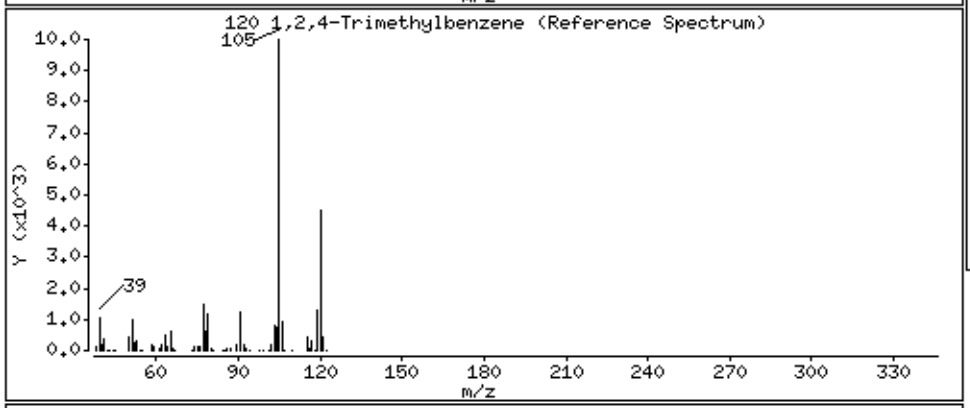
Concentration: 0.05658 PPBV

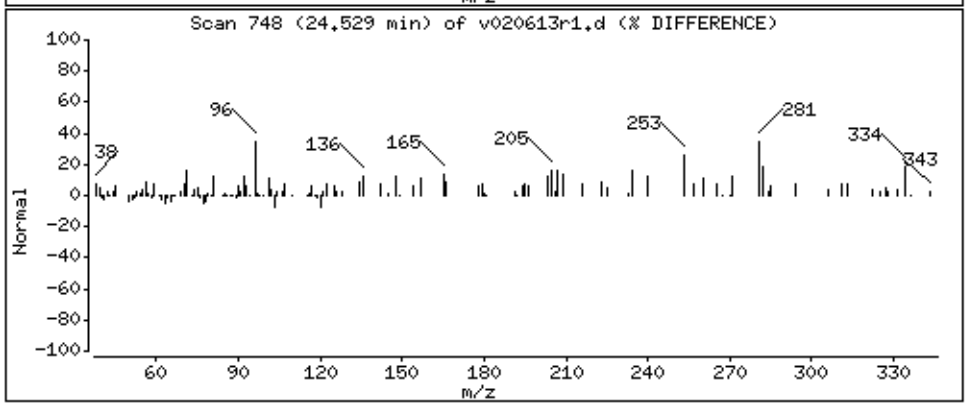












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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B6-3IAD

Lab ID#: 1502053AR1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.44	0.87	2.2
Chloromethane	0.88	0.70 J	1.8	1.4 J
Freon 11	0.18	0.20	0.99	1.1
Ethanol	0.88	10	1.6	20
Freon 113	0.18	0.069 J	1.3	0.53 J
Acetone	0.88	6.6	2.1	16
2-Propanol	0.88	49	2.2	120
Methylene Chloride	0.35	0.18 J	1.2	0.61 J
Hexane	0.18	1.4	0.62	5.0
Carbon Tetrachloride	0.18	0.076 J	1.1	0.48 J
Benzene	0.18	0.099 J	0.56	0.32 J
Heptane	0.18	0.070 J	0.72	0.29 J
Toluene	0.18	1.8	0.66	6.7
Ethyl Benzene	0.18	0.047 J	0.76	0.20 J
m,p-Xylene	0.18	0.14 J	0.76	0.61 J
o-Xylene	0.18	0.048 J	0.76	0.21 J
1,2,4-Trimethylbenzene	0.18	0.068 J	0.86	0.33 J

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Client Sample ID: B6-3IAD

Lab ID#: 1502053AR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020614r1**	**Date of Collection:**	**2/3/15 4:00:00 PM**
Dil. Factor:	**1.76**	**Date of Analysis:**	**2/6/15 03:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.44	0.87	2.2
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.88	0.70 J	1.8	1.4 J
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.18	0.20	0.99	1.1
Ethanol	0.88	10	1.6	20
Freon 113	0.18	0.069 J	1.3	0.53 J
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	6.6	2.1	16
2-Propanol	0.88	49	2.2	120
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.8	Not Detected
Methylene Chloride	0.35	0.18 J	1.2	0.61 J
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Hexane	0.18	1.4	0.62	5.0
1,1-Dichloroethane	0.18	Not Detected	0.71	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.86	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.18	0.076 J	1.1	0.48 J
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Benzene	0.18	0.099 J	0.56	0.32 J
1,2-Dichloroethane	0.18	Not Detected	0.71	Not Detected
Heptane	0.18	0.070 J	0.72	0.29 J
Trichloroethene	0.18	Not Detected	0.94	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	1.8	0.66	6.7
trans-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected

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Client Sample ID: B6-3IAD

Lab ID#: 1502053AR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020614r1**	**Date of Collection:**	**2/3/15 4:00:00 PM**
Dil. Factor:	**1.76**	**Date of Analysis:**	**2/6/15 03:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.81	Not Detected
Ethyl Benzene	0.18	0.047 J	0.76	0.20 J
m,p-Xylene	0.18	0.14 J	0.76	0.61 J
o-Xylene	0.18	0.048 J	0.76	0.21 J
Styrene	0.18	Not Detected	0.75	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	0.068 J	0.86	0.33 J
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.4	Not Detected
Naphthalene	0.88	Not Detected	4.6	Not Detected

J = Estimated value.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020614r1.d
Lab Smp Id: 1502053Ar1-05A
Inj Date : 06-FEB-2015 15:23
Operator : ef Inst ID: msdv.i
Smp Info : 250mL# 33658
Misc Info : 7.3"Hg - 4.8psi
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 26-Jun-2015 11:38 dbailey Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1
Dil Factor: 1.76000
Integrator: HP RTE Compound Sublist: TO15Nmdl.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	185162	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	153788			0.00- 30.00	83.06
15.934	15.934 (1.000)	49	441840			0.00- 30.00	238.62
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	779140	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	118386			0.00- 30.00	15.19
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	632617	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	331438			0.00- 30.00	52.39
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.756	16.756 (1.052)	65	295386	5.08940	5.089	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	142129			25.13- 85.13	48.12
$ 80 Toluene-d8						CAS #: 2037-26-5	
19.879	19.879 (1.149)	98	738053	5.05915	5.059	80.00- 120.00	100.00
19.856	19.879 (1.147)	70	81252			0.00- 40.74	11.01

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

$  80 Toluene-d8 (continued)
 19.879  19.879 (1.149)   100    466445                    36.73-  96.73    63.20
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    289866 4.88982    4.890  80.00- 120.00   100.00
 23.678  23.704 (1.066)    95    378747                   95.17- 155.17   130.66
 23.704  23.704 (1.067)   176    286787                   64.74- 124.74    98.94
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.202   5.202 (0.326)    85     37158 0.25173   0.4430  80.00- 120.00   100.00
  5.164   5.202 (0.324)    87     11099                    1.73-  61.73    29.87
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.090   7.053 (0.445)    50     38029 0.39911   0.7024  80.00- 120.00   100.00(a)
  7.128   7.053 (0.447)    52     13829                    1.57-  61.57    36.36
-------------------------------------------------------------------------------
   20 Trichlorofluoromethane/Fr11                   CAS #: 75-69-4
 11.184  11.184 (0.702)   101     17812 0.11321   0.1992  80.00- 120.00   100.00
 11.184  11.184 (0.702)   103     11492                   34.40-  94.40    64.52
-------------------------------------------------------------------------------
   24 Ethanol                                       CAS #: 64-17-5
 12.102  12.102 (0.760)    45    199379 5.89337   10.372  80.00- 120.00   100.00
 12.102  12.102 (0.760)    46     75734                    9.93-  69.93    37.98
 12.102  12.102 (0.760)    43     36029                    0.00-  50.31    18.07
-------------------------------------------------------------------------------
   28 Freon 113                                     CAS #: 76-13-1
 12.569  12.569 (0.789)   151      4413 0.03919  0.06897  80.00- 120.00   100.00(a)
 12.569  12.569 (0.789)   153      2646                   33.38-  93.38    59.96
 12.569  12.569 (0.789)   101      6484                   85.19- 145.19   146.93
-------------------------------------------------------------------------------
   31 Acetone                                       CAS #: 67-64-1
 12.816  12.816 (0.804)    58    161367 3.77428    6.643  80.00- 120.00   100.00
 12.816  12.816 (0.804)    43    603584                  326.03- 386.03   374.04
-------------------------------------------------------------------------------
   34 2-Propanol                                    CAS #: 67-63-0
 13.173  13.173 (0.827)    45   4706678 27.8140   48.952  80.00- 120.00   100.00
 13.173  13.173 (0.827)    43    845857                    0.00-  47.97    17.97
 13.173  13.173 (0.827)    59    144117                    0.00-  33.25     3.06
-------------------------------------------------------------------------------
   37 Methylene Chloride                            CAS #: 75-09-2
 13.640  13.640 (0.856)    84      5297 0.10033   0.1766  80.00- 120.00   100.00(a)
 13.640  13.640 (0.856)    49     14167                  198.57- 258.57   267.45
 13.640  13.640 (0.856)    51      5728                   41.48- 101.48   108.14
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57    120233 0.80528    1.417  80.00- 120.00   100.00
```

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

   43 Hexane (continued)
 14.381  14.381 (0.903)    43     92381                    41.32- 101.32    76.83
 14.381  14.381 (0.903)    86     12131                     0.00-  40.13    10.09
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                          CAS #: 56-23-5
 16.458  16.458 (1.033)   119      5689 0.04337  0.07632  80.00- 120.00   100.00(a)
 16.427  16.458 (1.031)   117      5507                    67.96- 127.96    96.80
                   Sum of Peak Concentrations =  0.07632
-------------------------------------------------------------------------------
   64 Benzene                                       CAS #: 71-43-2
 16.756  16.756 (0.968)    78     10934 0.05653  0.09949  80.00- 120.00   100.00(a)
 16.783  16.756 (0.970)    77      2574                     0.00-  53.39    23.54
-------------------------------------------------------------------------------
   69 Heptane                                       CAS #: 142-82-5
 16.975  16.975 (0.981)    57      3655 0.03991  0.07024  80.00- 120.00   100.00(a)
  0.000  16.975 (0.000)   100         0                     0.00-  51.16     0.00
 16.975  16.975 (0.981)    43      6516                   180.62- 240.62   178.28
-------------------------------------------------------------------------------
   81 Toluene                                       CAS #: 108-88-3
 19.991  19.991 (1.155)    91    222165 1.00799    1.774  80.00- 120.00   100.00
 19.991  19.991 (1.155)    92    126517                    28.34-  88.34    56.95
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                 CAS #: 100-41-4
 22.315  22.315 (1.005)   106      2510 0.02687  0.04730  80.00- 120.00   100.00(a)
 22.315  22.315 (1.005)    91      6314                   260.31- 320.31   251.55
-------------------------------------------------------------------------------
   96 m,p-Xylene                                    CAS #: 108-38-3
 22.480  22.480 (1.012)   106      7488 0.07937   0.1397  80.00- 120.00   100.00(a)
 22.480  22.480 (1.012)    91     16224                   157.23- 217.23   216.67
-------------------------------------------------------------------------------
  100 o-Xylene                                      CAS #: 95-47-6
 23.002  23.002 (1.036)   106      2391 0.02757  0.04852  80.00- 120.00   100.00(a)
 23.002  23.002 (1.036)    91      8779                   167.76- 227.76   367.17
-------------------------------------------------------------------------------
  120 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 24.529  24.529 (1.105)   105      6113 0.03840  0.06758  80.00- 120.00   100.00(a)
 24.529  24.529 (1.105)   120      4549                     0.00-  30.00    74.42
-------------------------------------------------------------------------------
```

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020614r1.d
Lab Smp Id: 1502053Ar1-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 7.3"Hg - 4.8psi

Calibration Date: 06-FEB-2015
Calibration Time: 06:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	185162	-12.25
71 1,4-Difluorobenze	830109	498065	1162153	779140	-6.14
92 Chlorobenzene-d5	628752	377251	880253	632617	0.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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: 26-Jun-2015 11:39

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 06Feb2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1502053Ar1-05A
Level: LOW
Operator: ef
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 7.3"Hg - 4.8psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	5.089	101.79	70-130
$ 80 Toluene-d8	5.000	5.059	101.18	70-130
$ 106 Bromofluorobenzene	5.000	4.890	97.80	70-130

Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

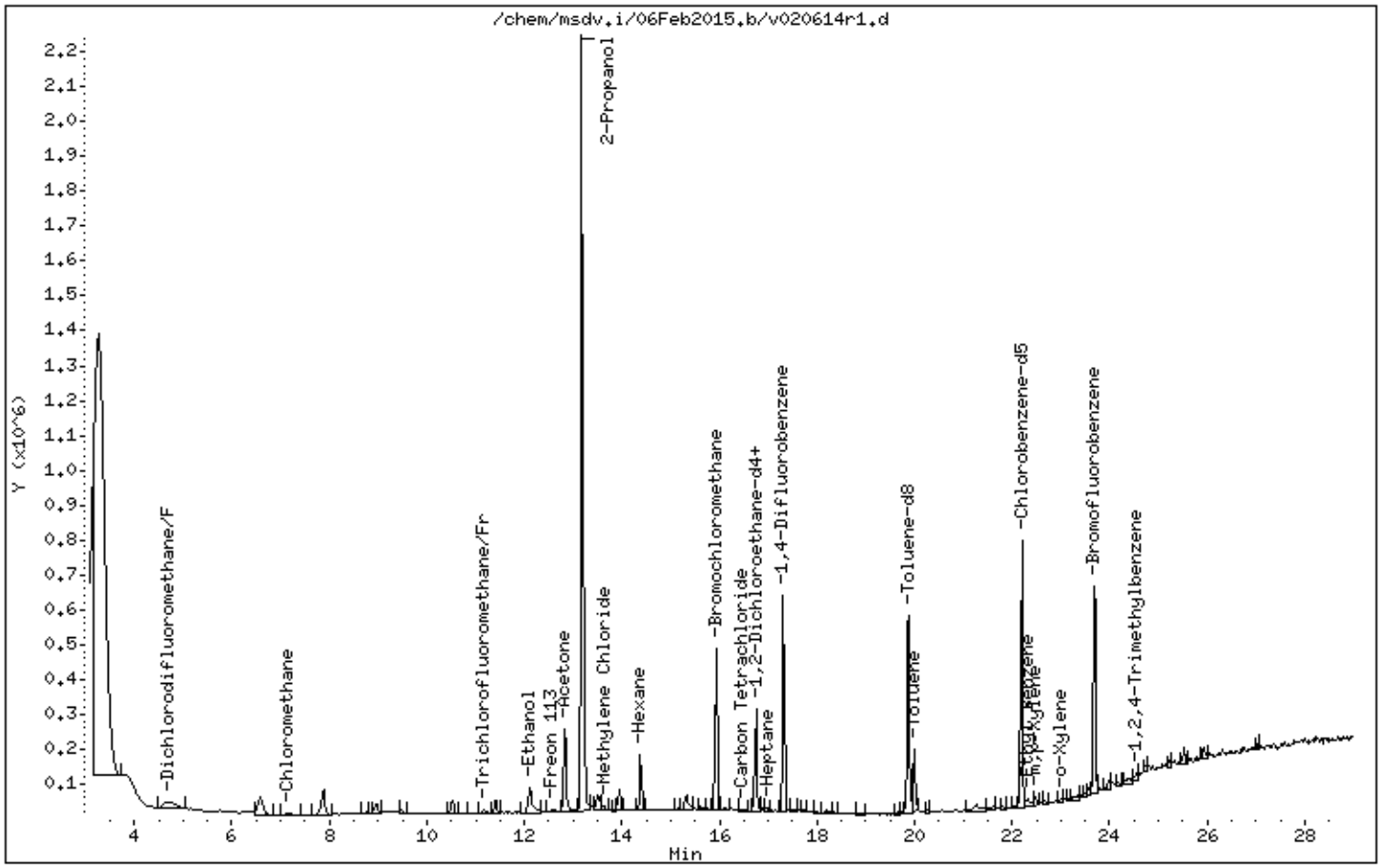
Instrument: msdv.i

Sample Info: 250mL# 33658

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

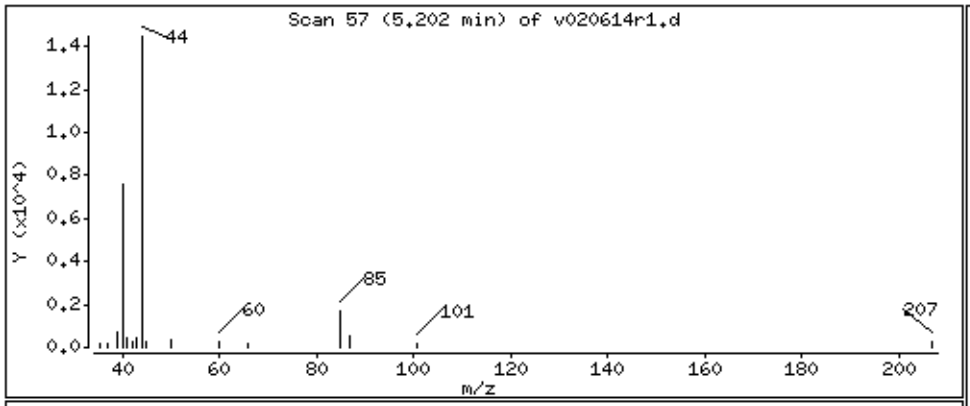
Operator: ef

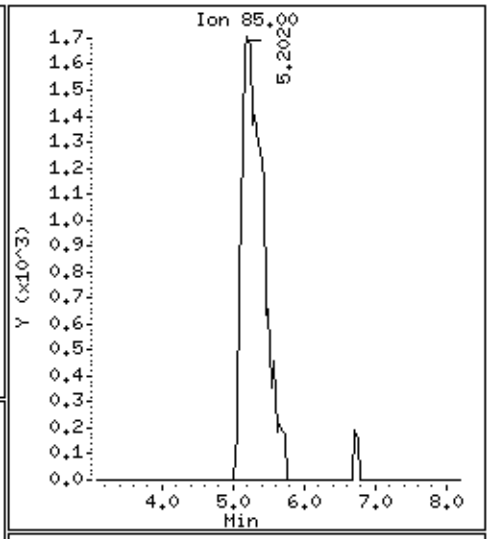
Column phase: RTx-624

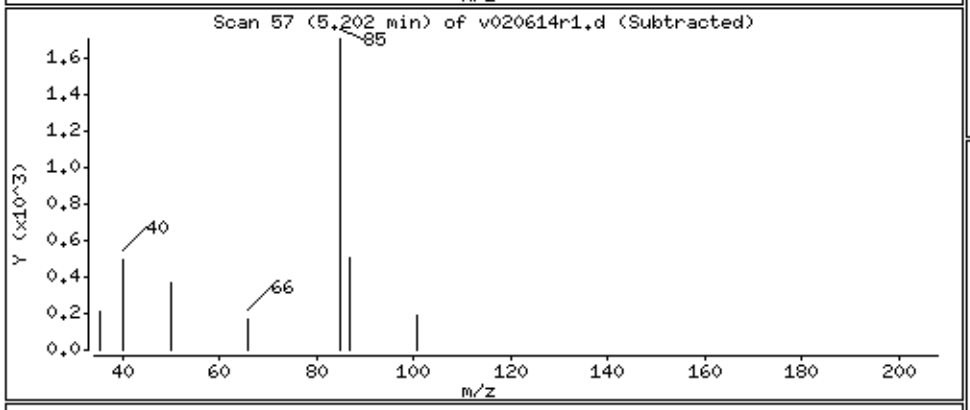
Column diameter: 0.32

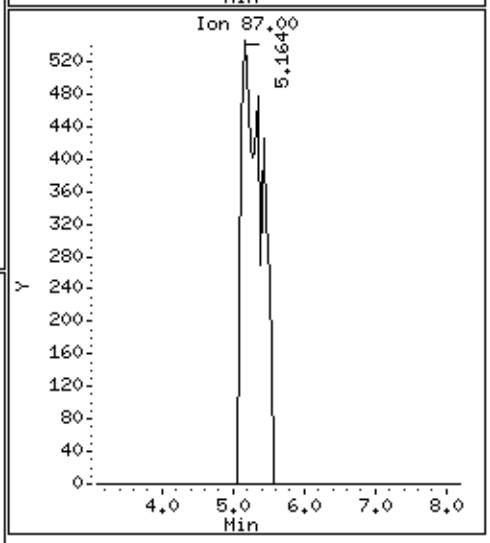
4 Dichlorodifluoromethane/Fr12

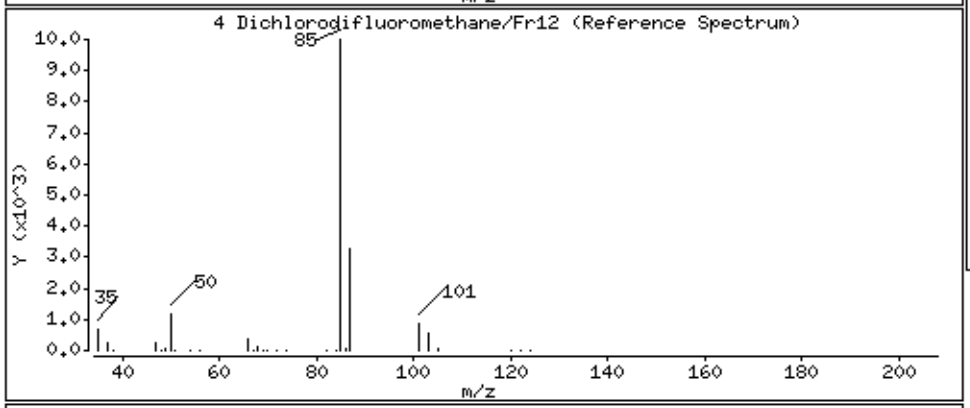
Concentration: 0.4430 PPBV

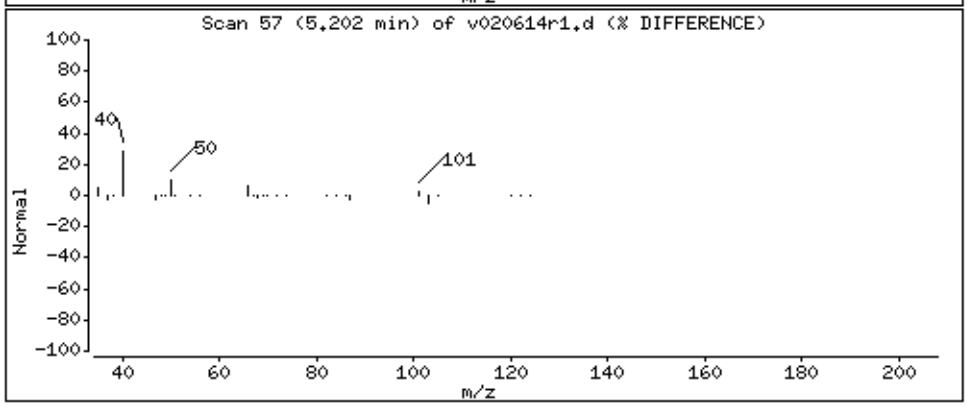












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

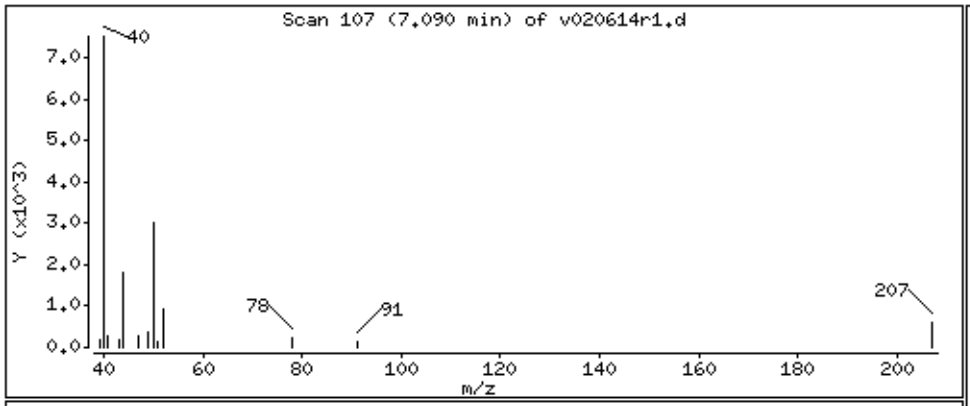
Operator: ef

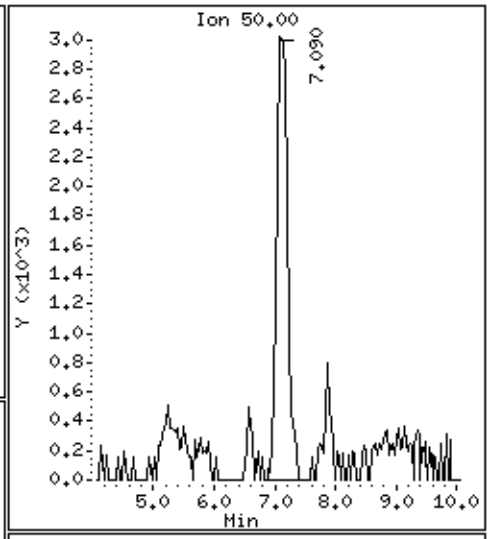
Column phase: RTx-624

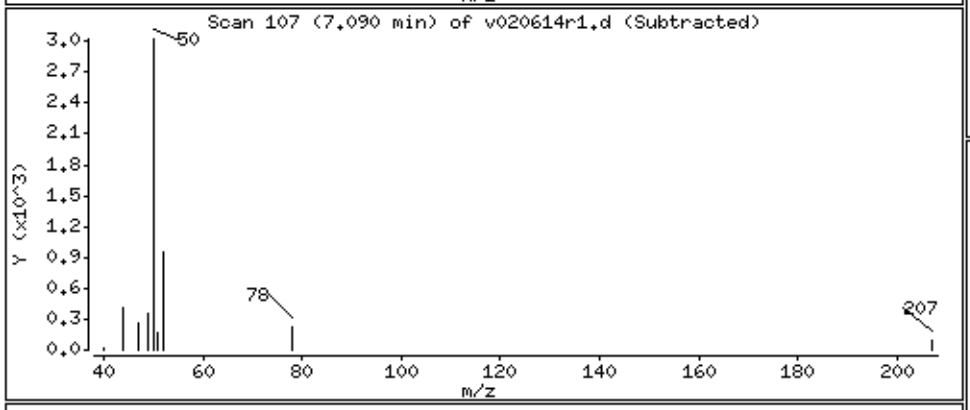
Column diameter: 0.32

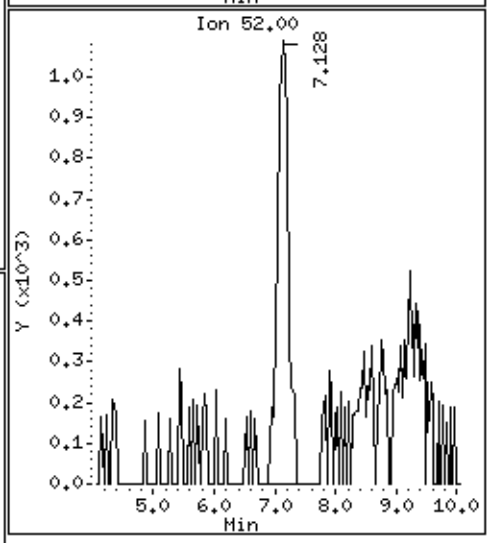
8 Chloromethane

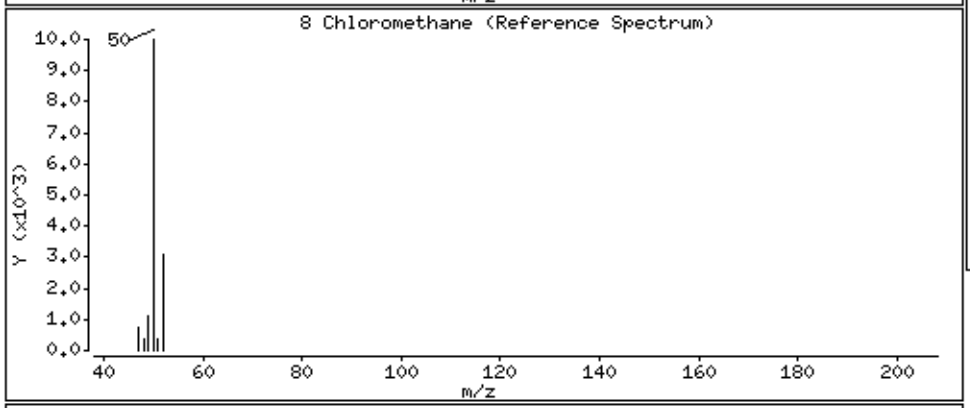
Concentration: 0.7024 PPBV

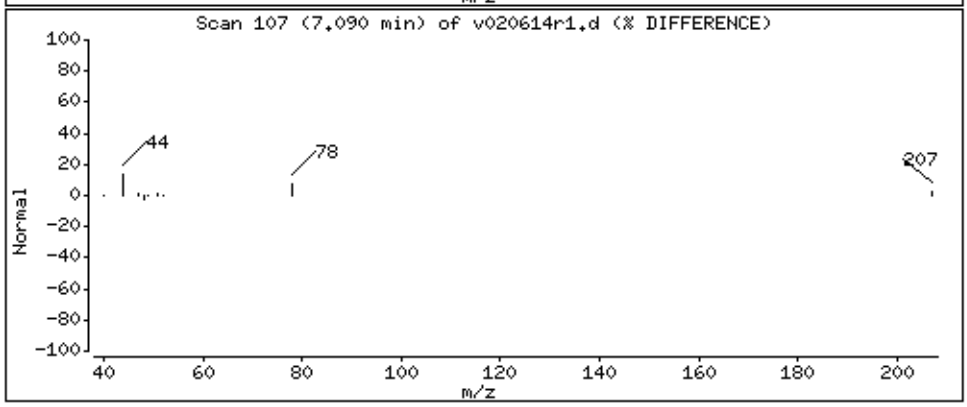












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

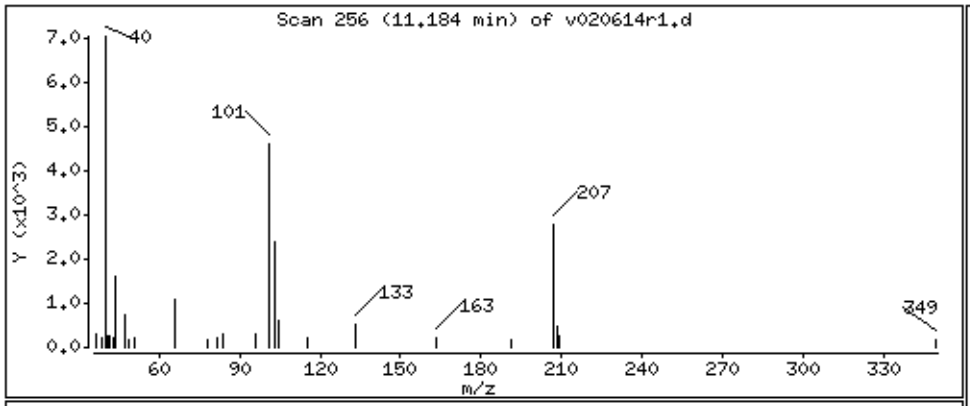
Operator: ef

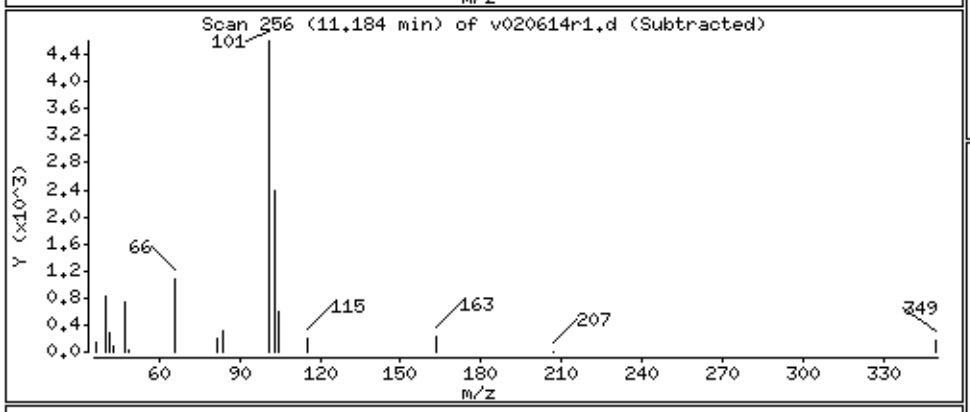
Column phase: RTx-624

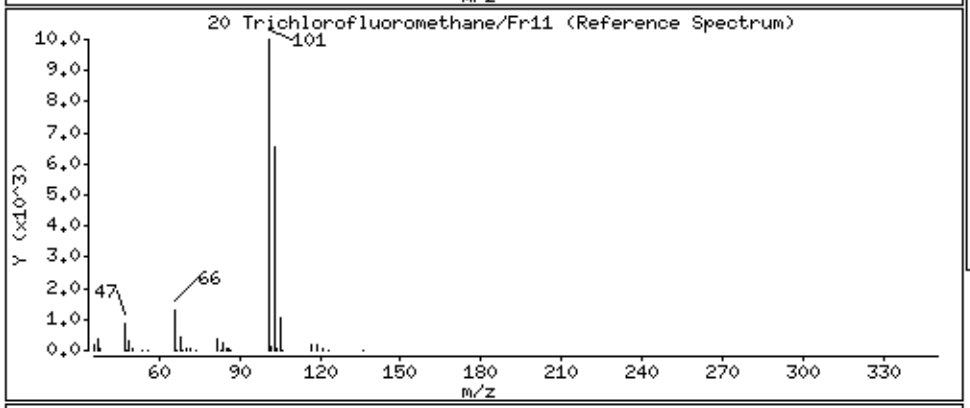
Column diameter: 0.32

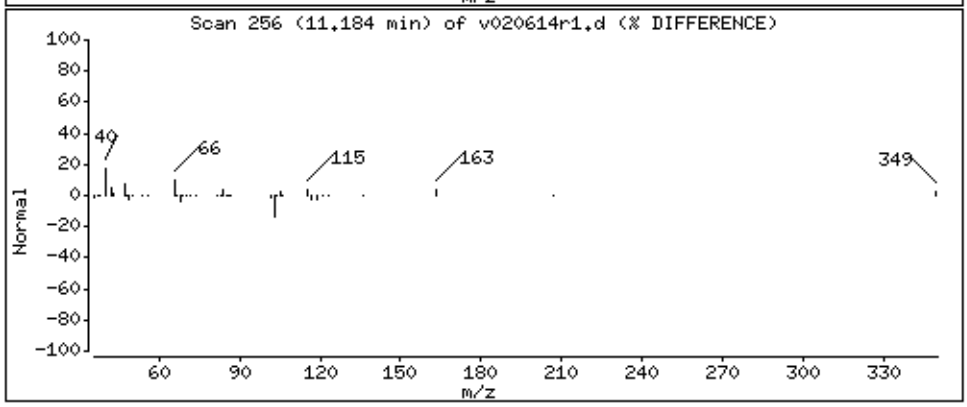
20 Trichlorofluoromethane/Fr11

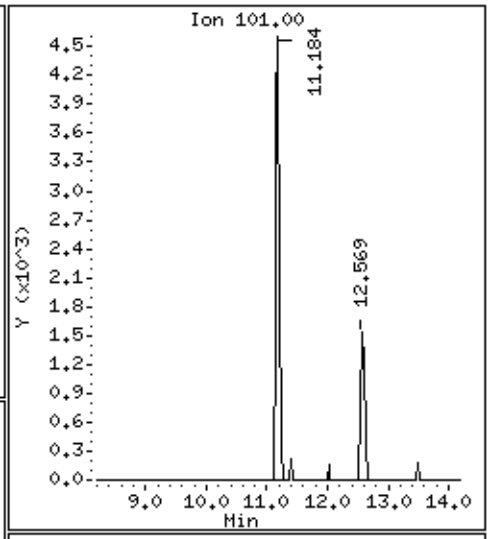
Concentration: 0.1992 PPBV

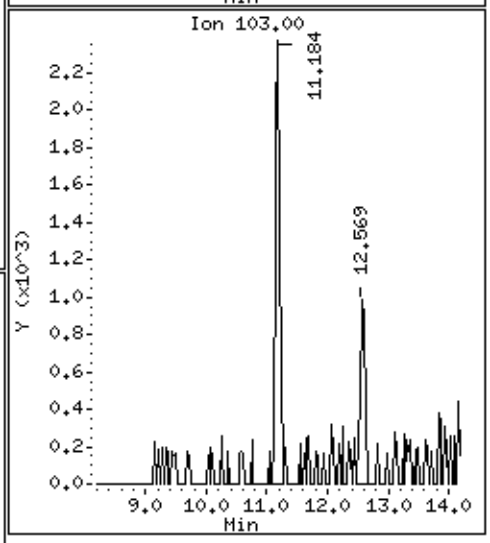












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

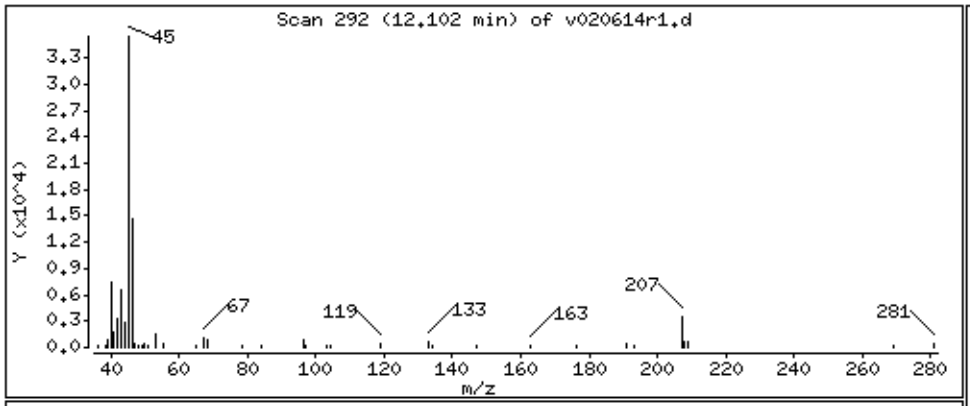
Operator: ef

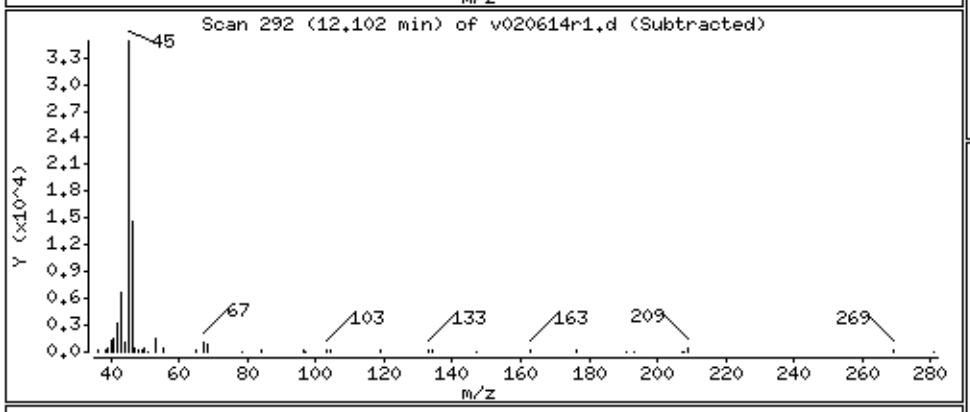
Column phase: RTx-624

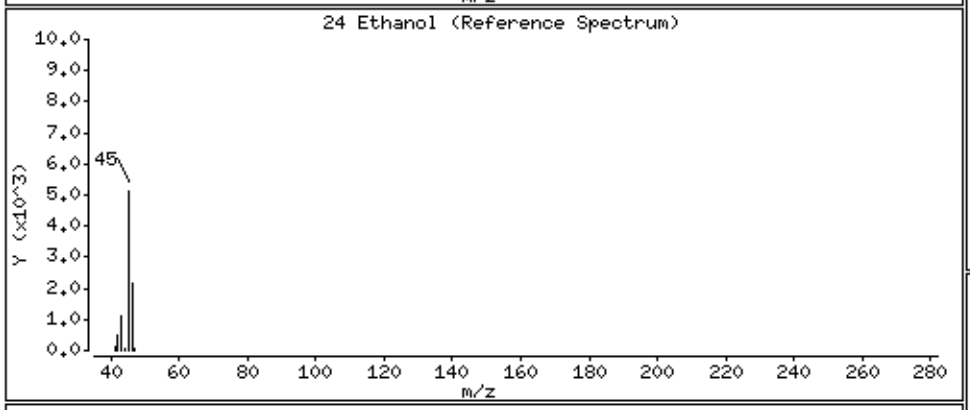
Column diameter: 0.32

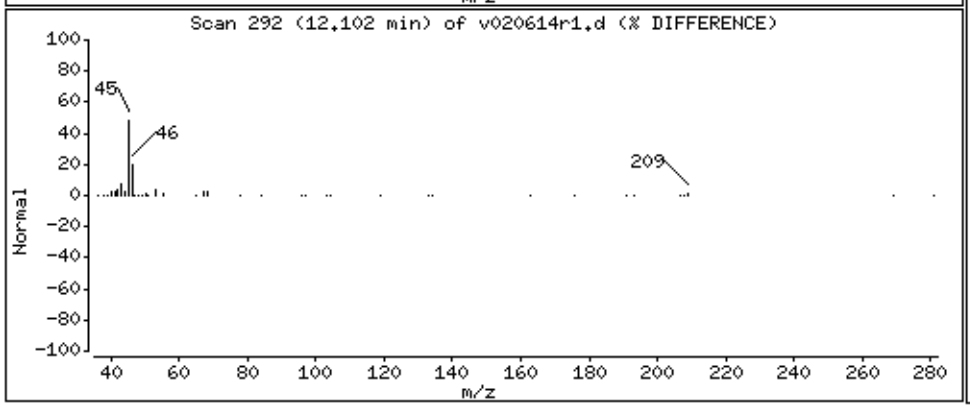
24 Ethanol

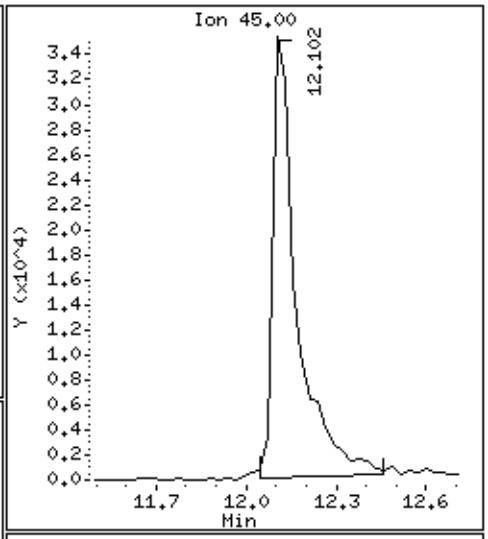
Concentration: 10.372 PPBV

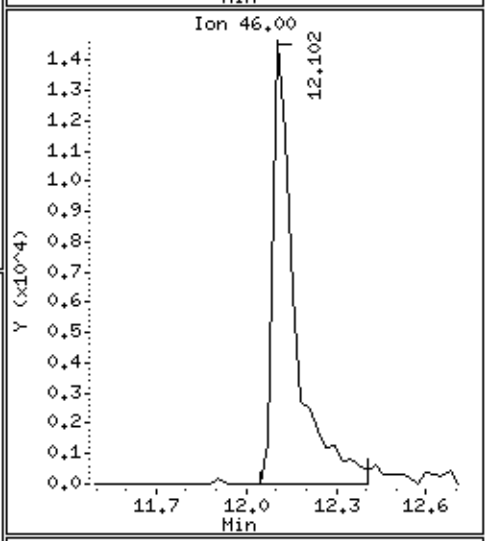


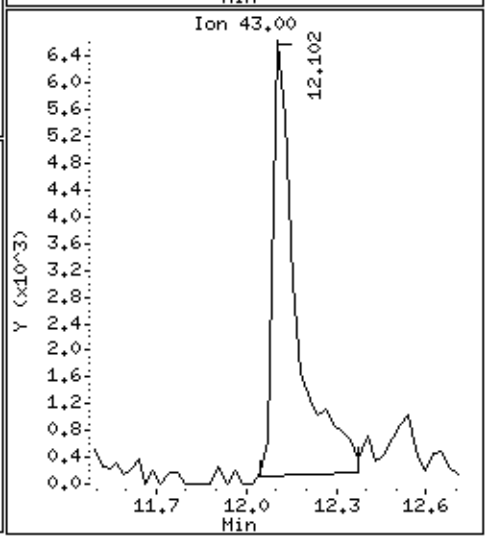












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

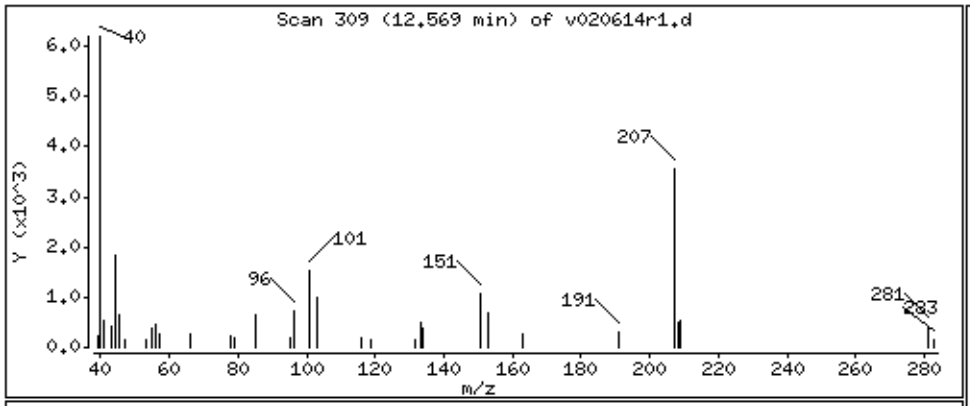
Operator: ef

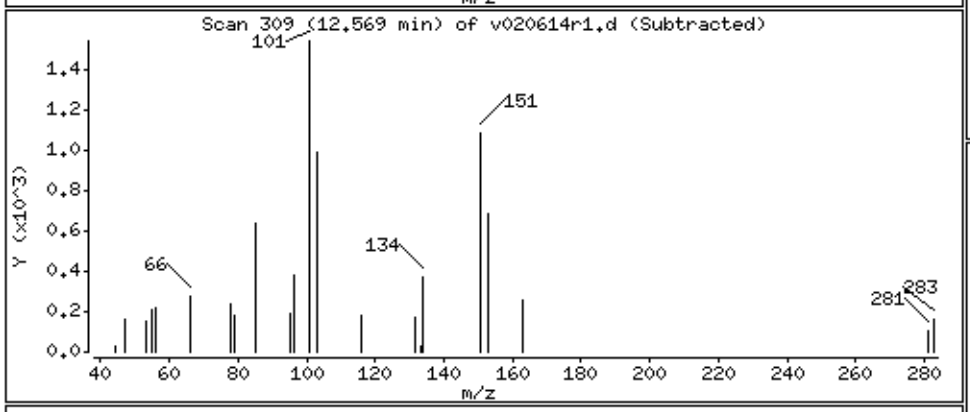
Column phase: RTx-624

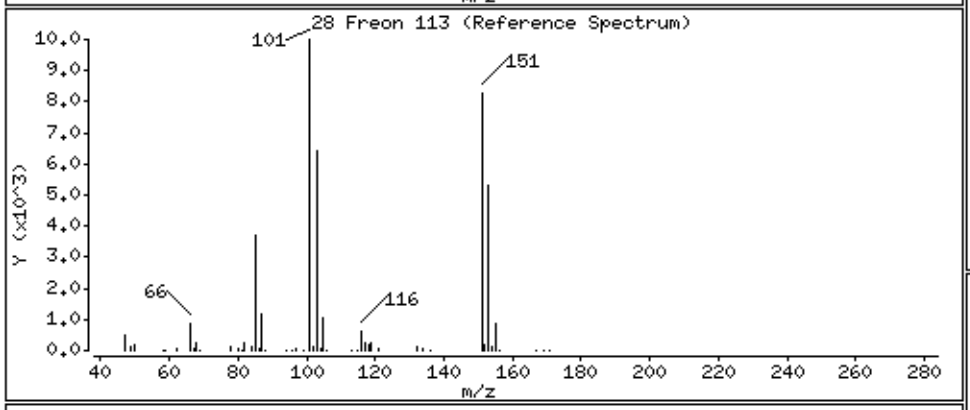
Column diameter: 0.32

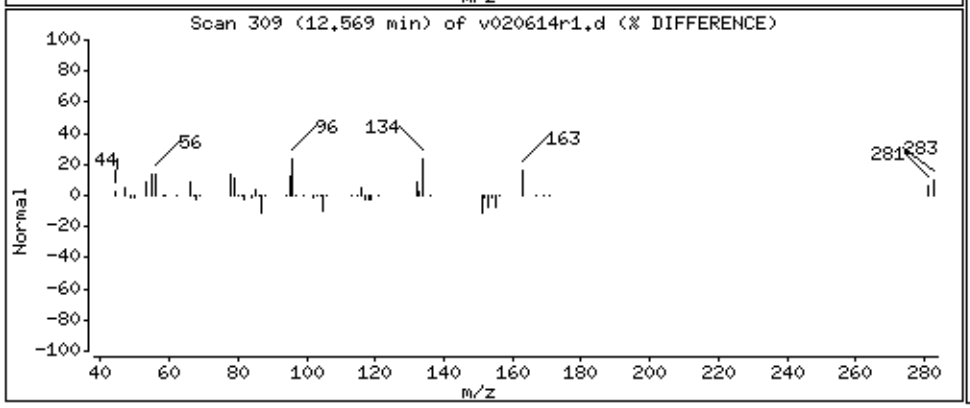
28 Freon 113

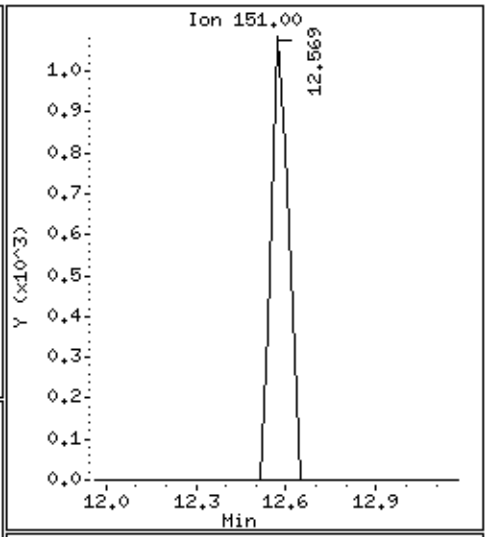
Concentration: 0.06897 PPBV

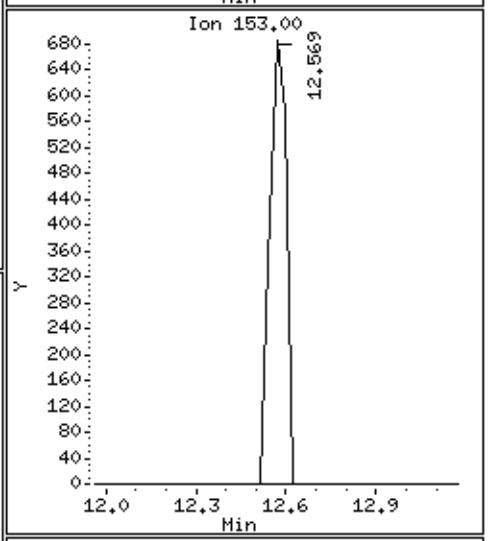


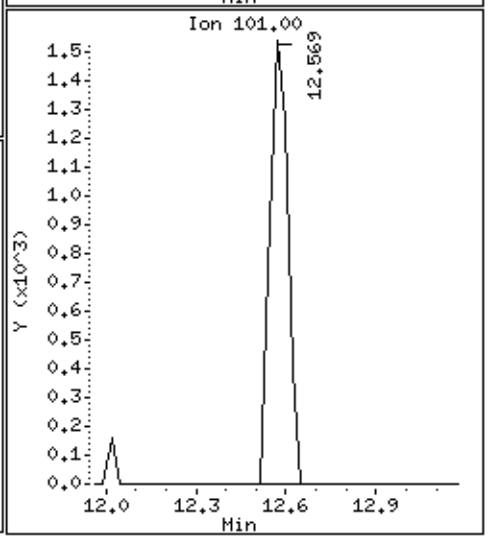












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

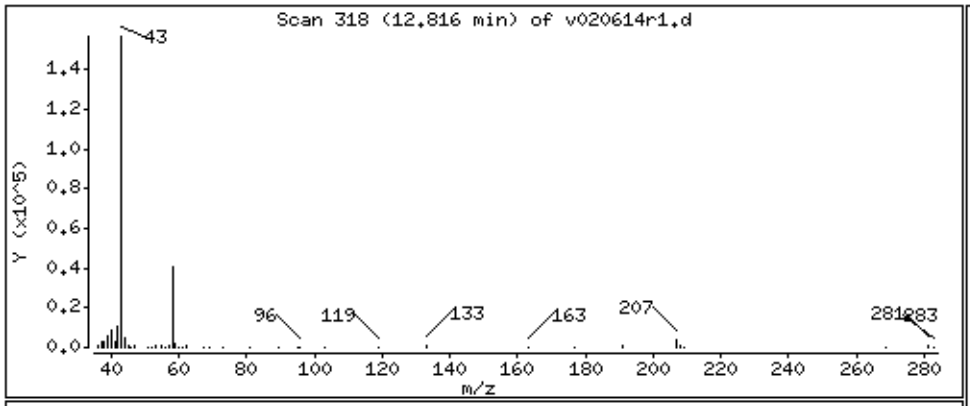
Operator: ef

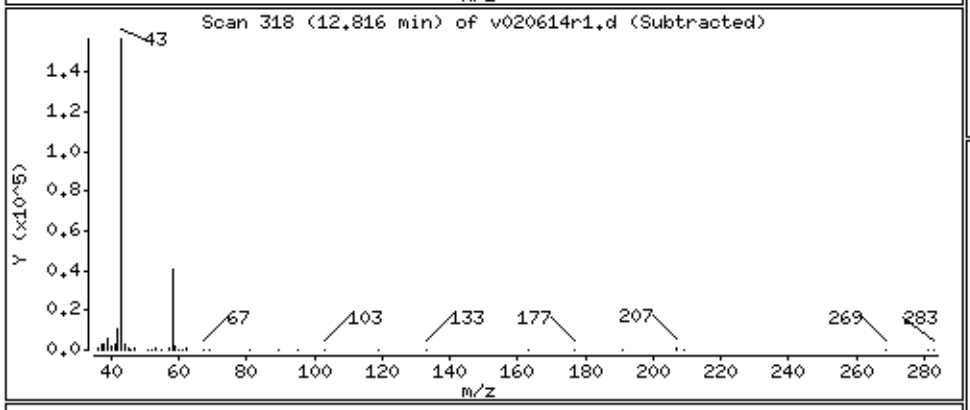
Column phase: RTx-624

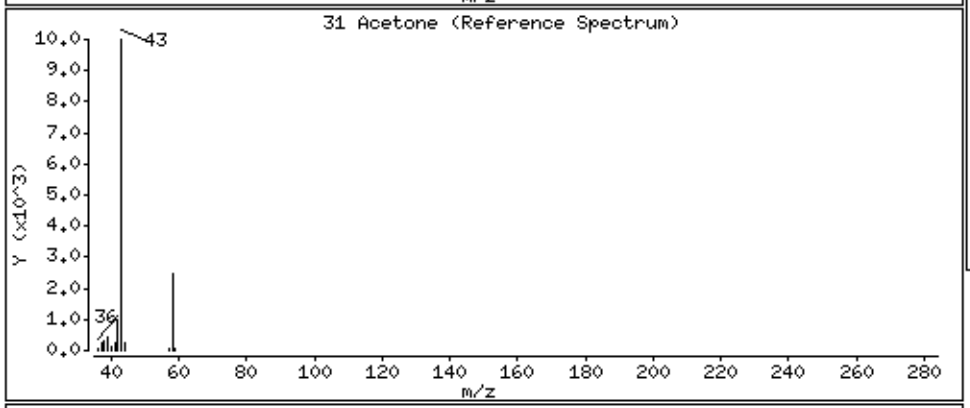
Column diameter: 0.32

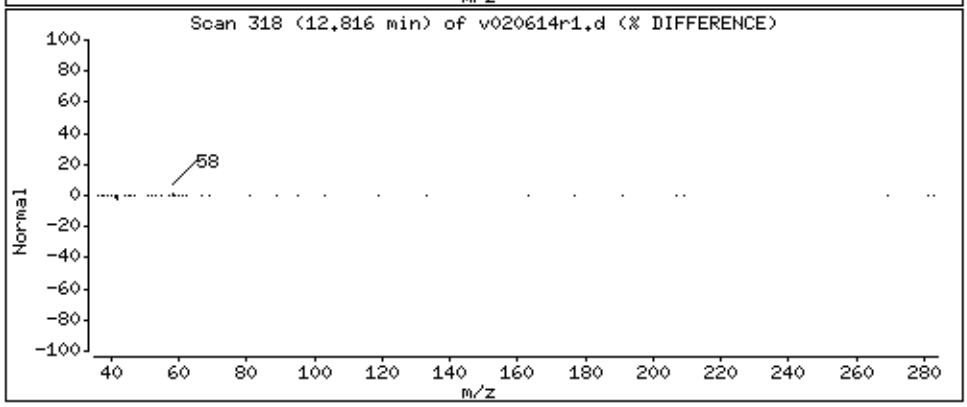
31 Acetone

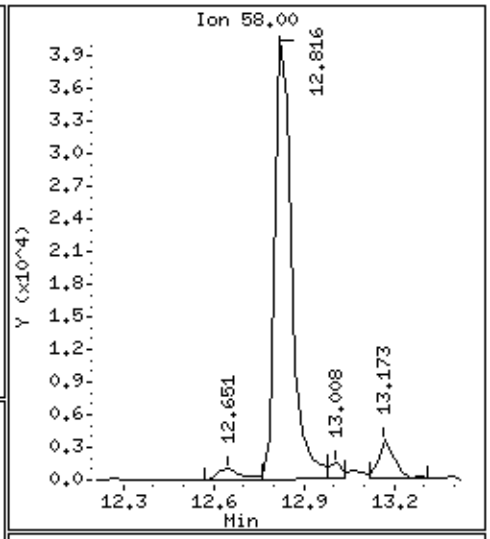
Concentration: 6.643 PPBV

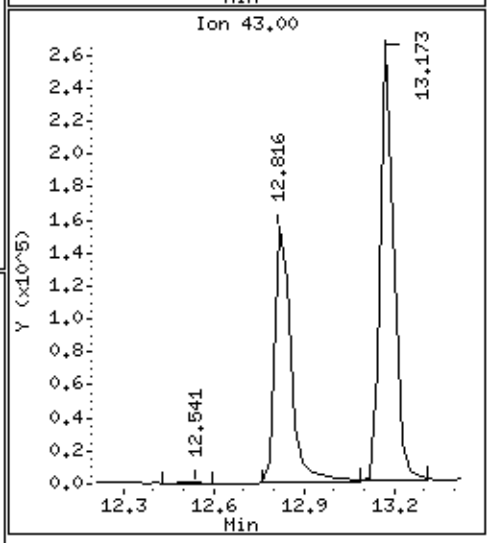












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

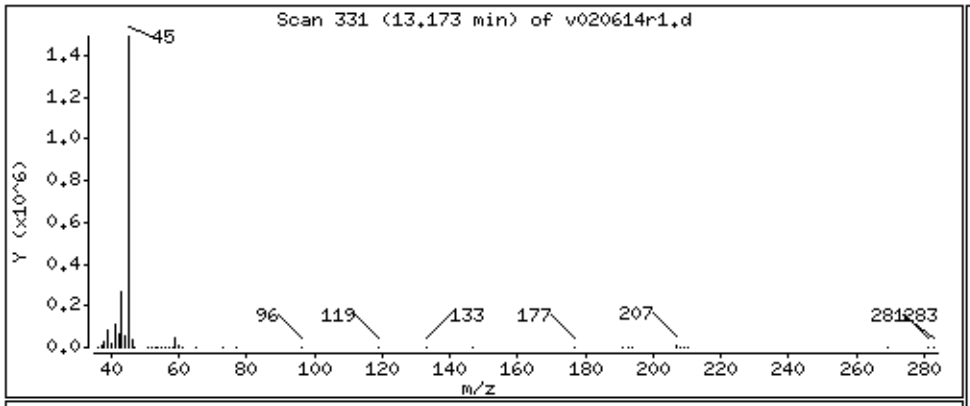
Operator: ef

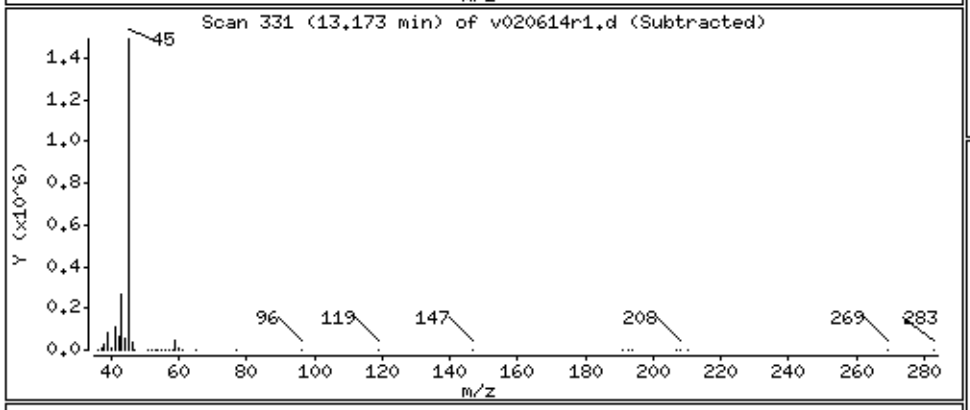
Column phase: RTx-624

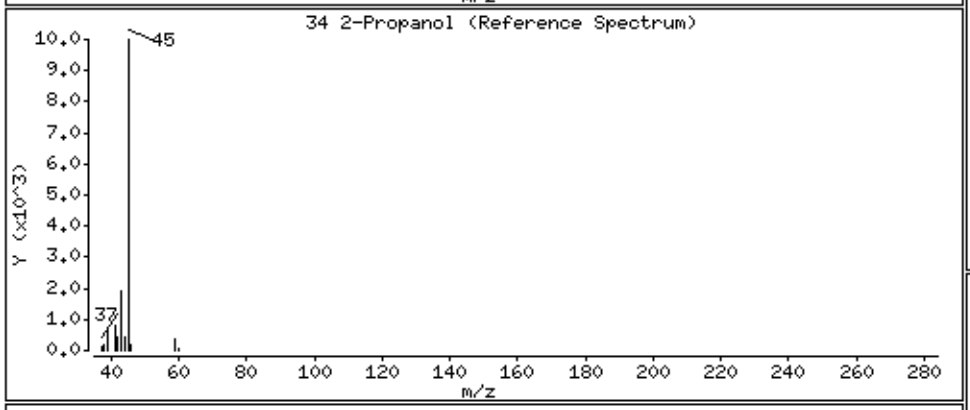
Column diameter: 0.32

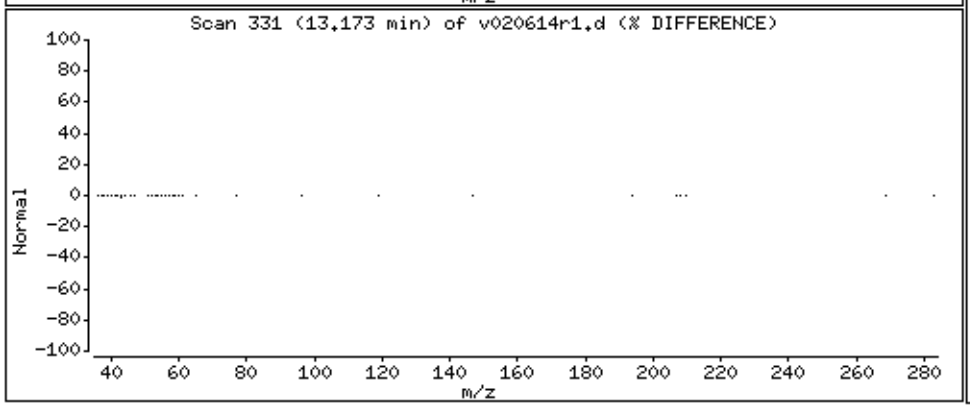
34 2-Propanol

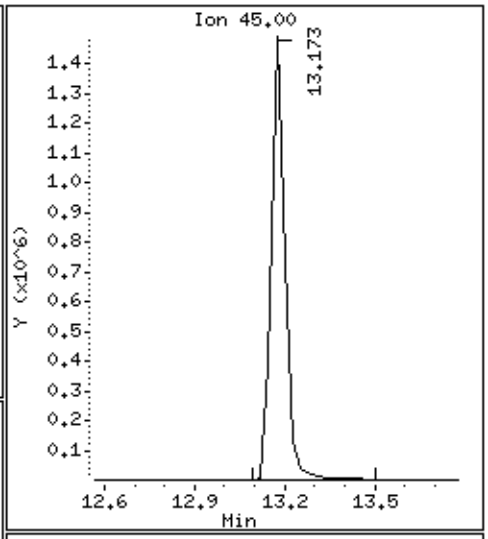
Concentration: 48.952 PPBV

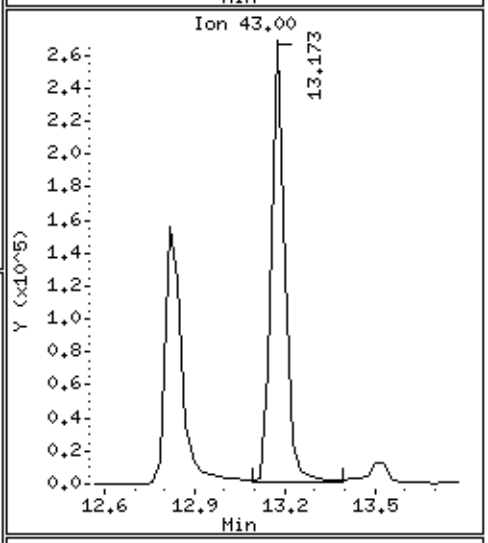


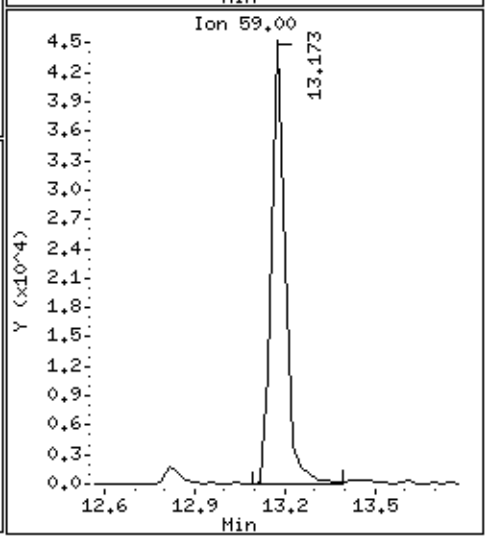












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

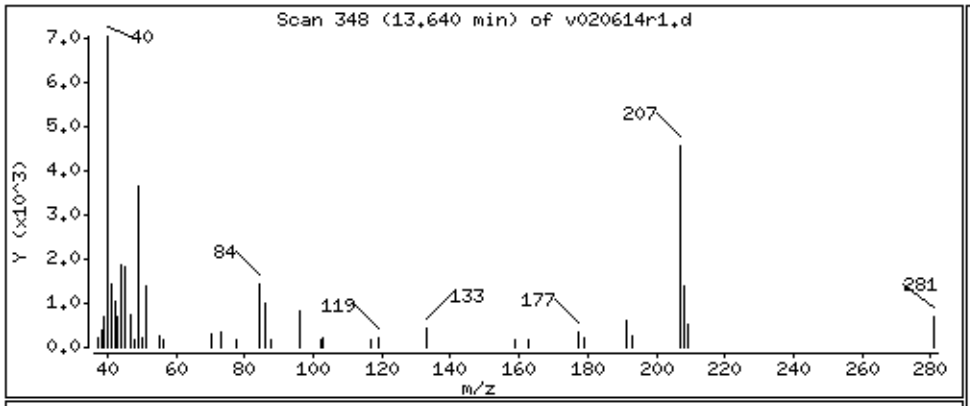
Operator: ef

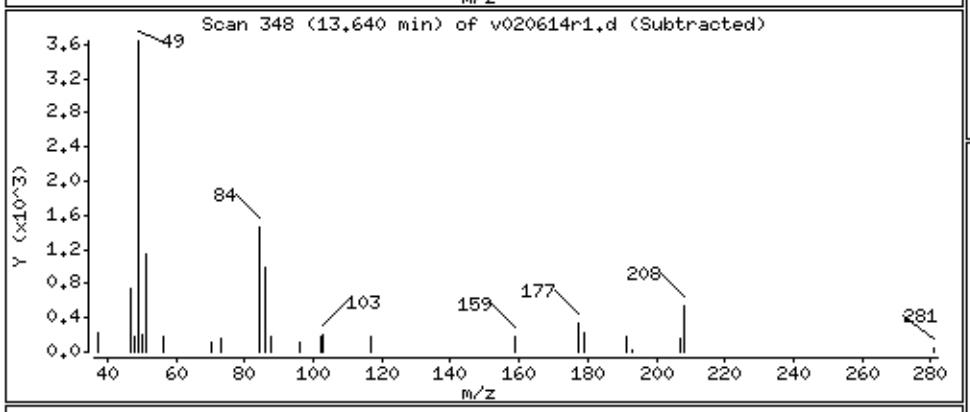
Column phase: RTx-624

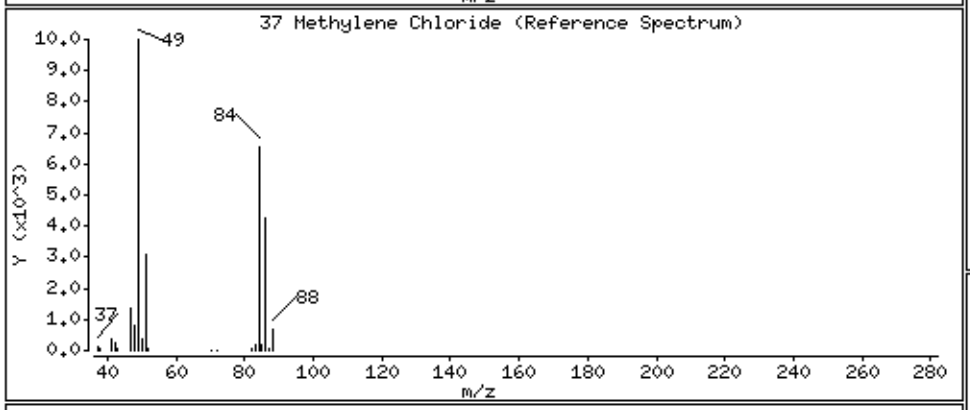
Column diameter: 0.32

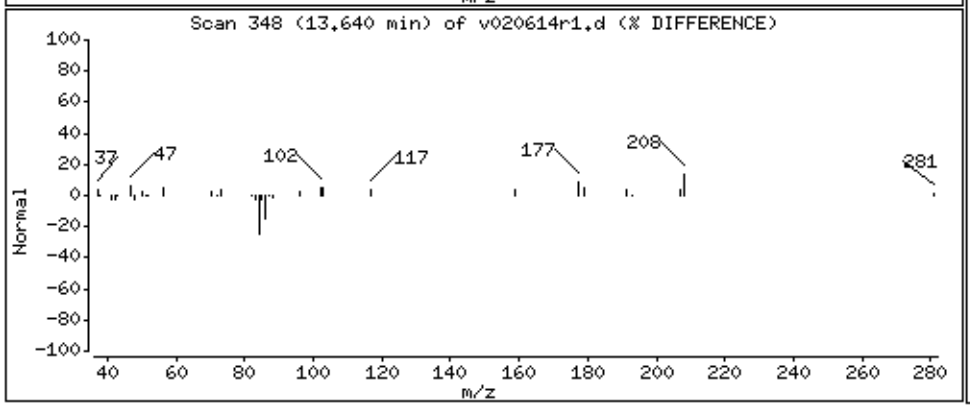
37 Methylene Chloride

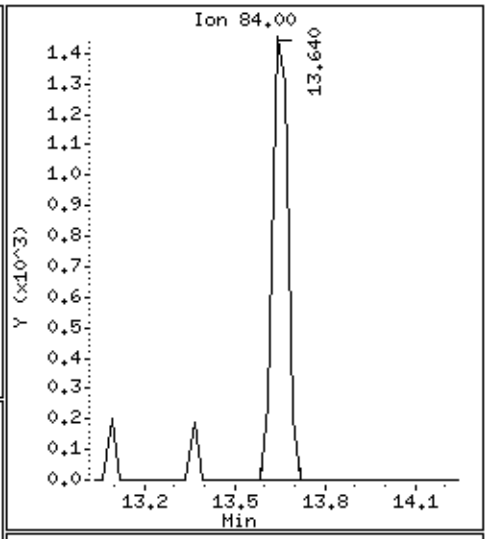
Concentration: 0.1766 PPBV

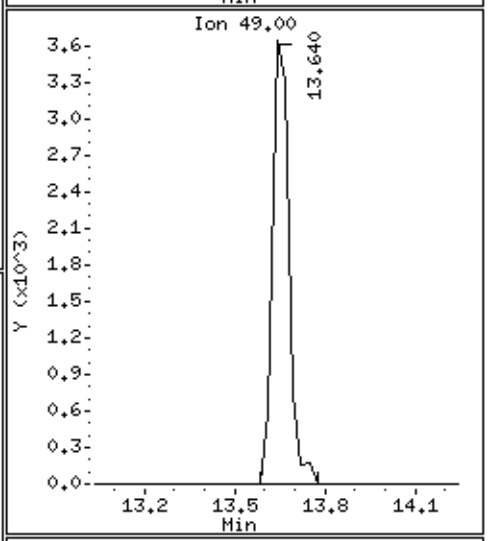


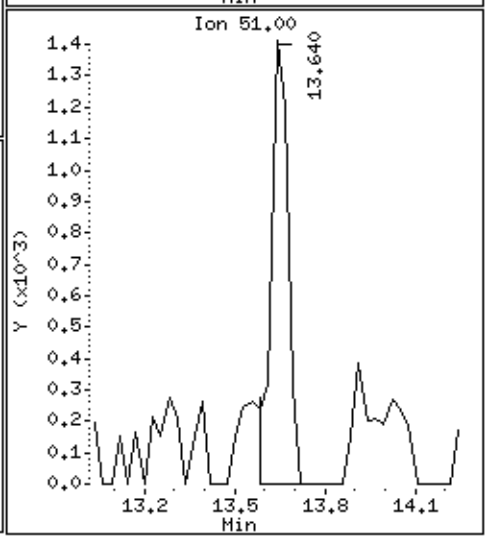












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

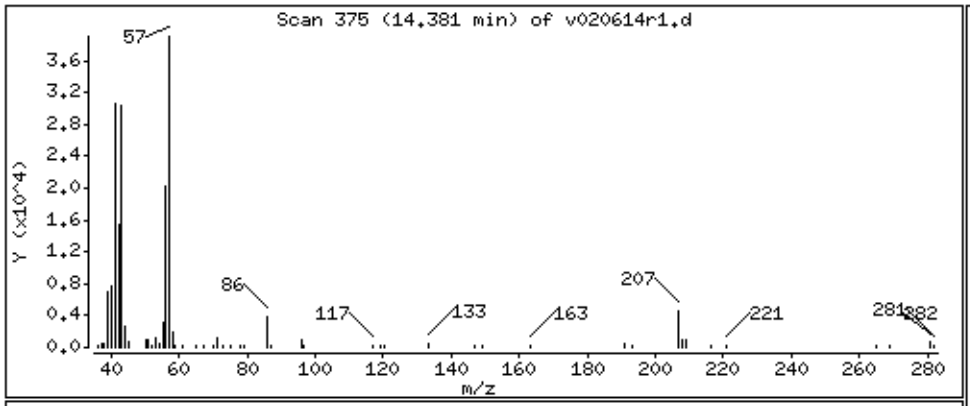
Operator: ef

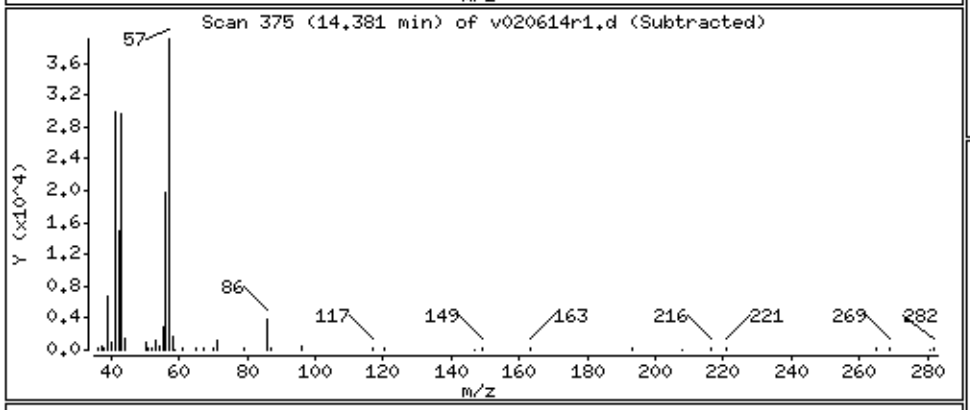
Column phase: RTx-624

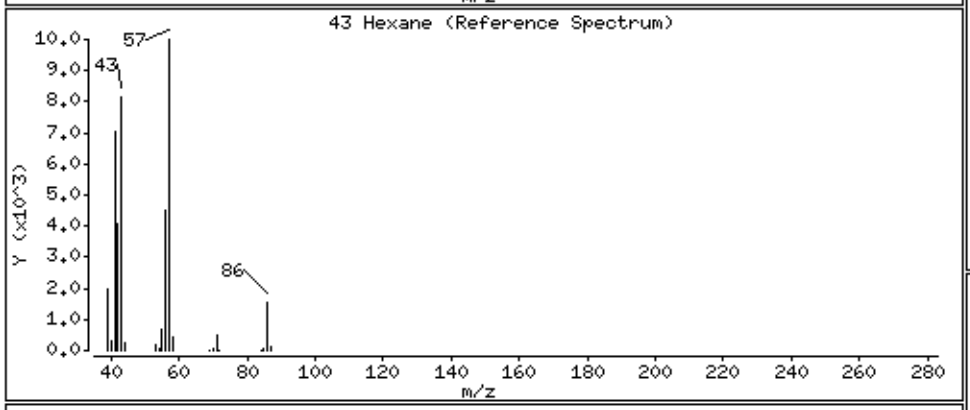
Column diameter: 0.32

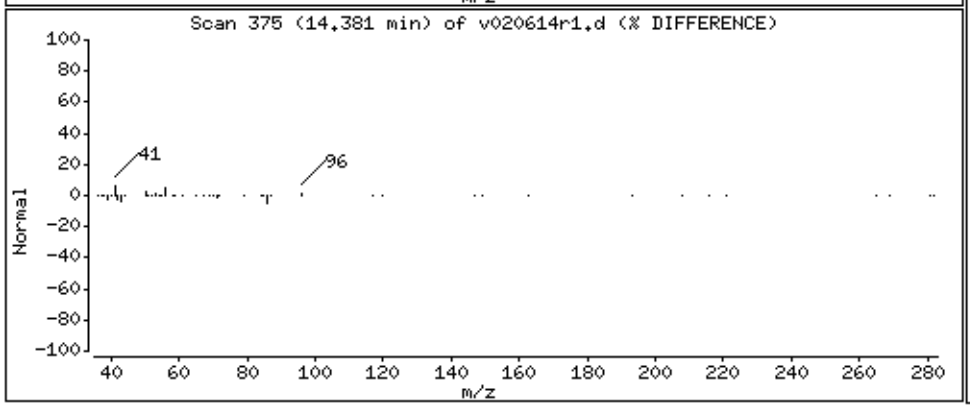
43 Hexane

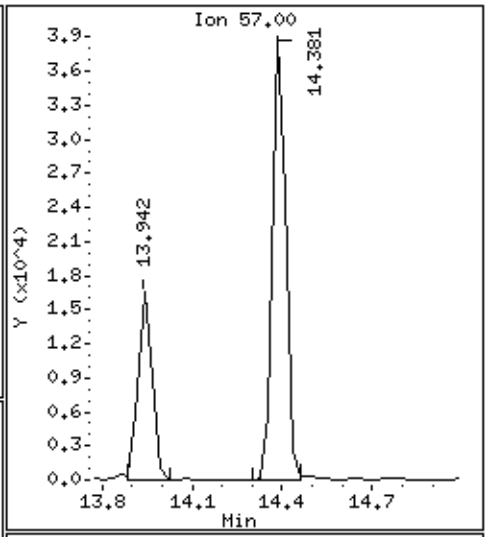
Concentration: 1.417 PPBV

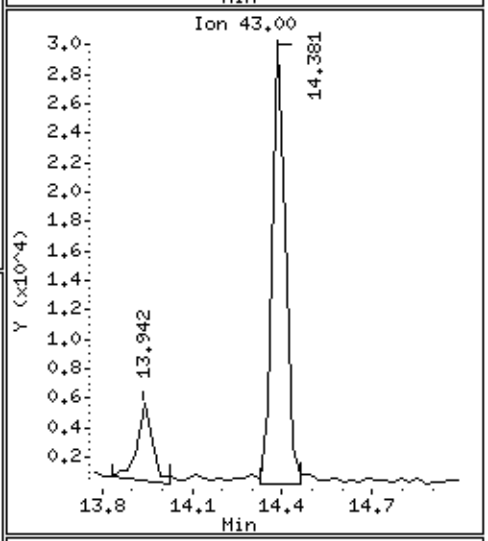


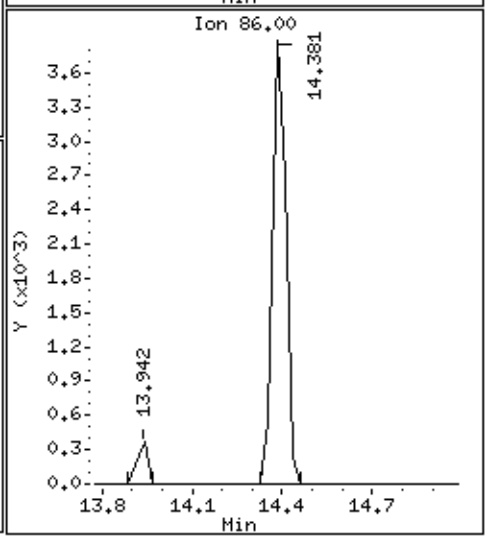












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

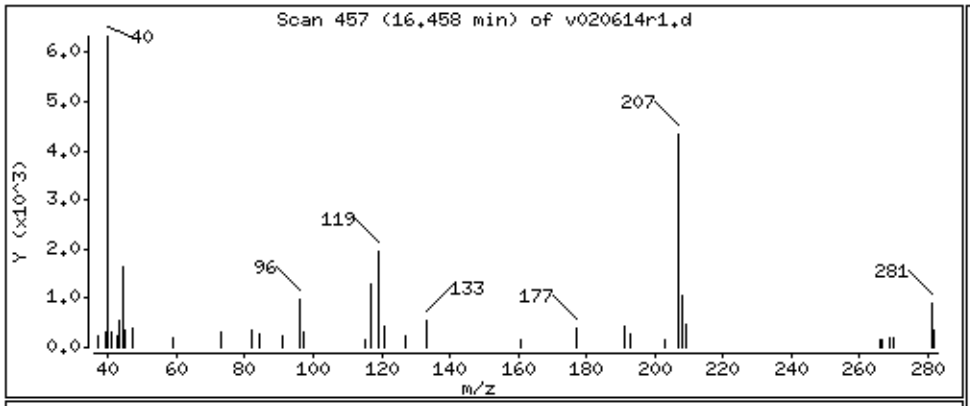
Operator: ef

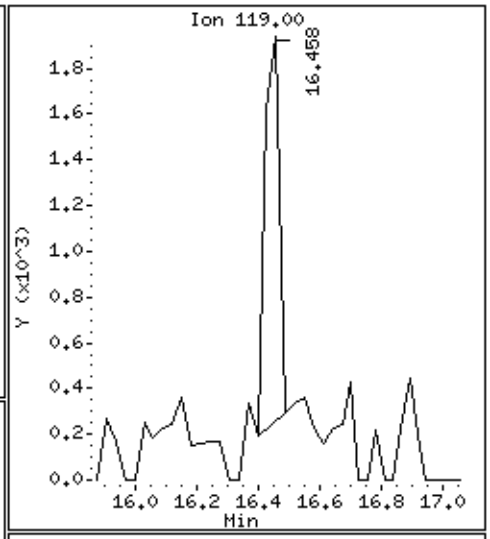
Column phase: RTx-624

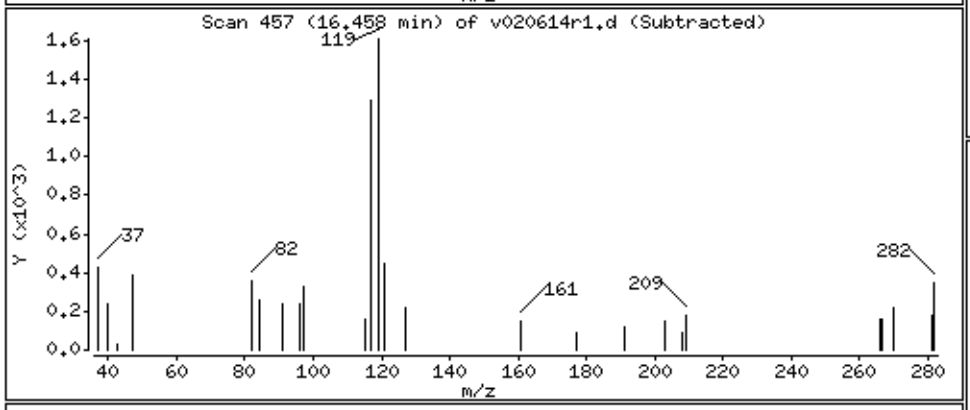
Column diameter: 0.32

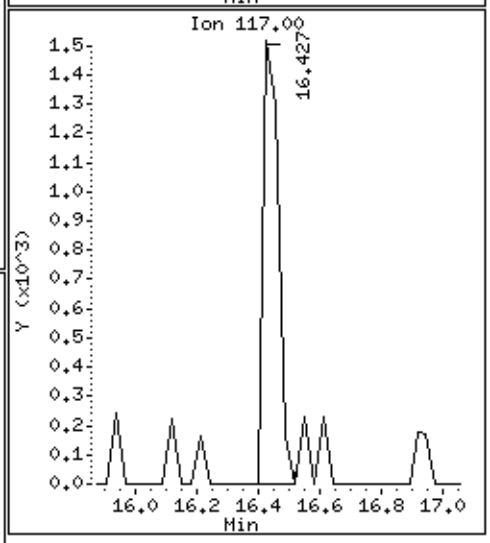
59 Carbon Tetrachloride

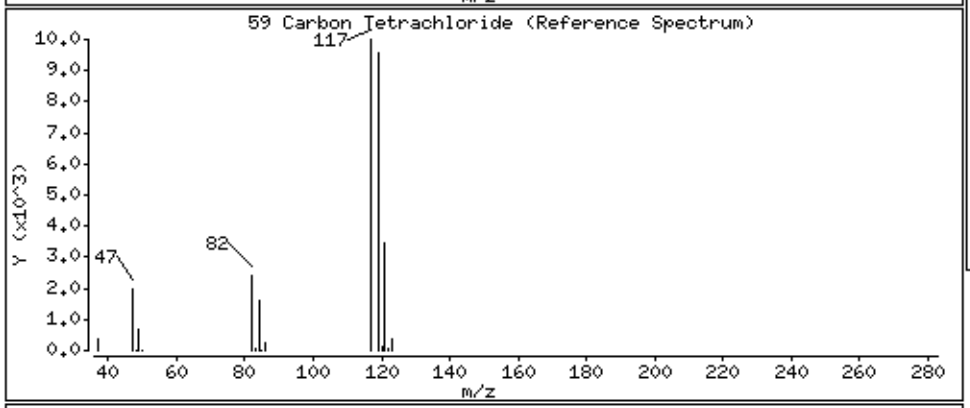
Concentration: 0.07632 PPBV

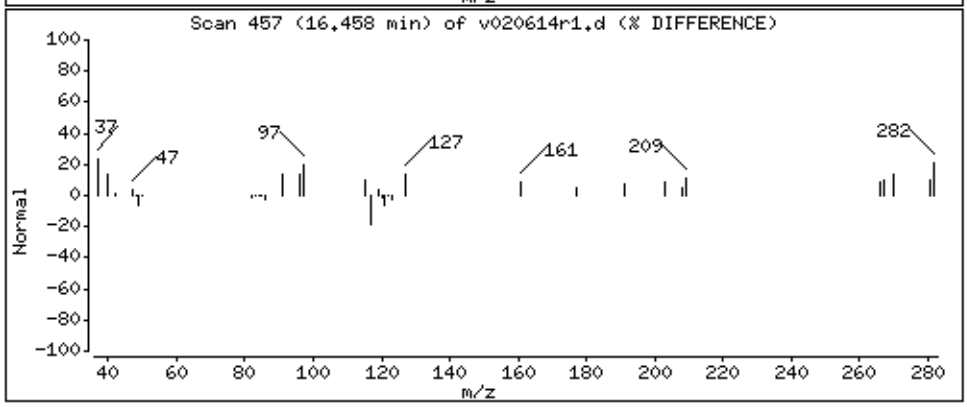












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

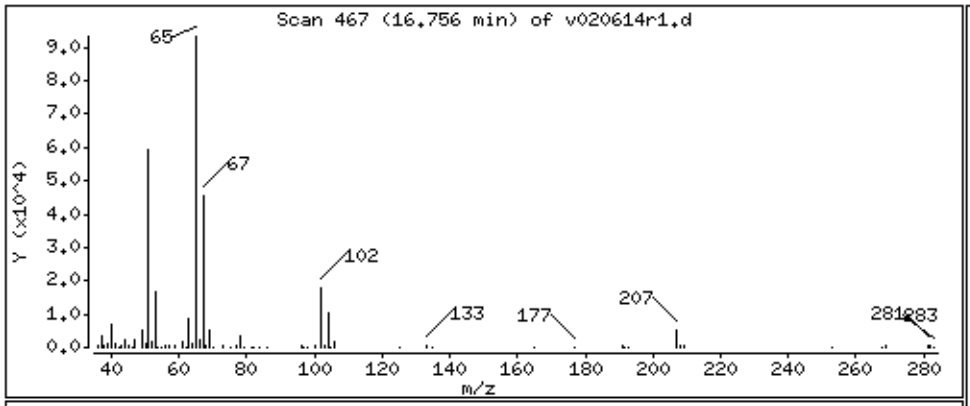
Operator: ef

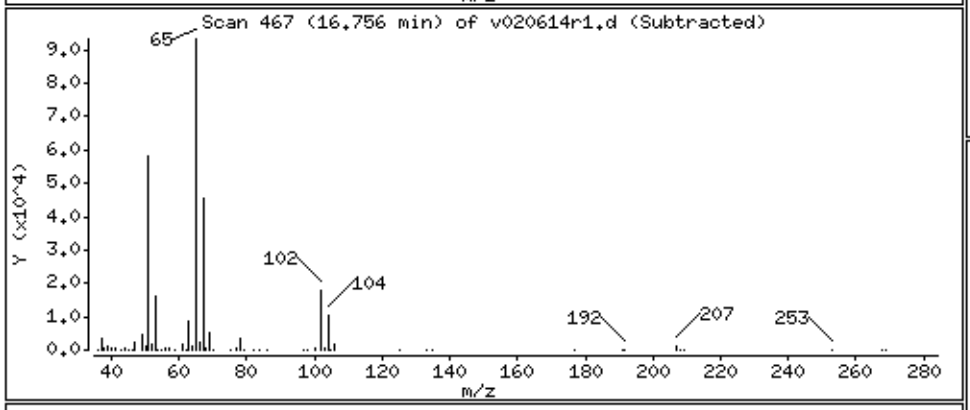
Column phase: RTx-624

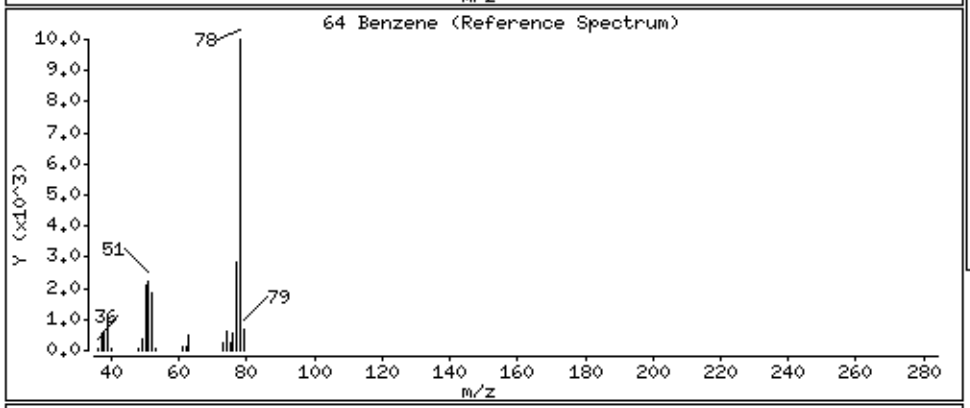
Column diameter: 0.32

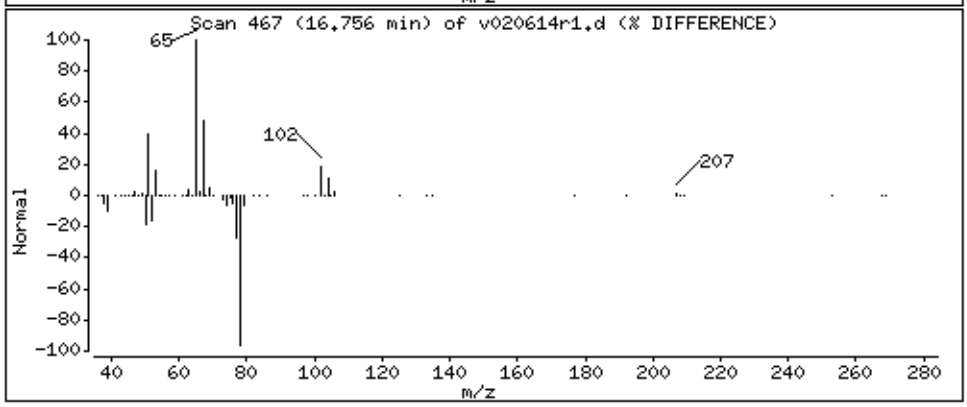
64 Benzene

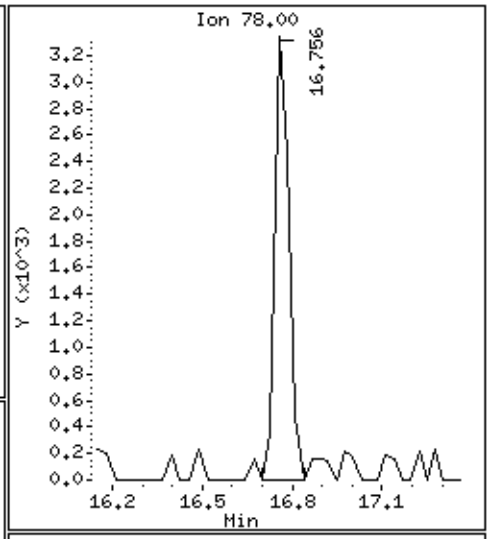
Concentration: 0.09949 PPBV

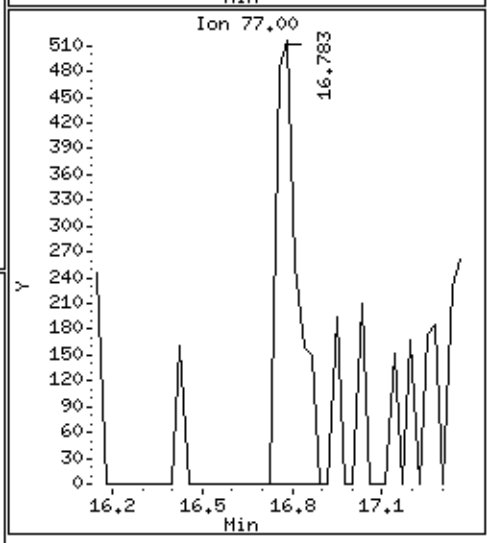












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

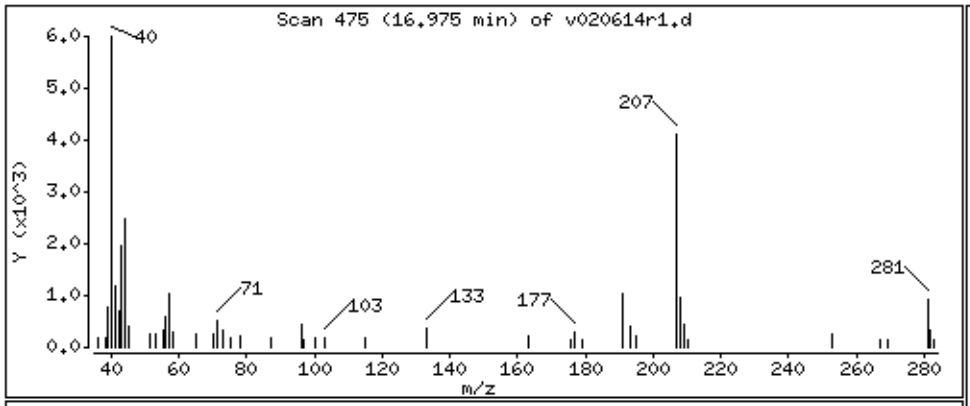
Operator: ef

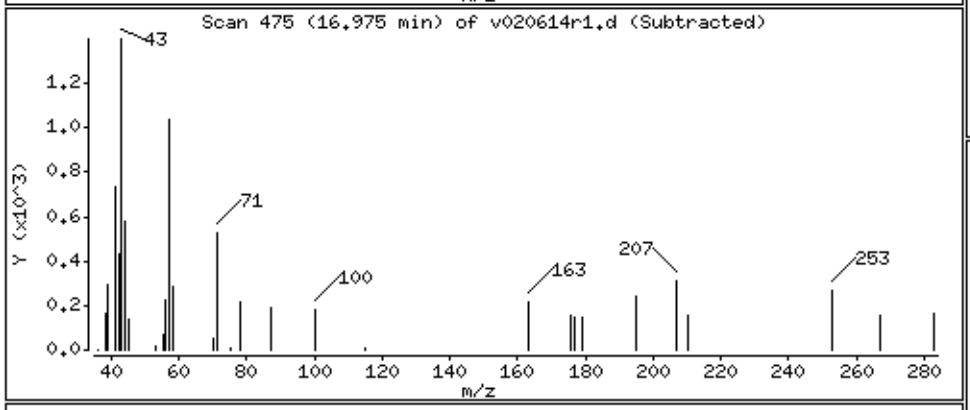
Column phase: RTx-624

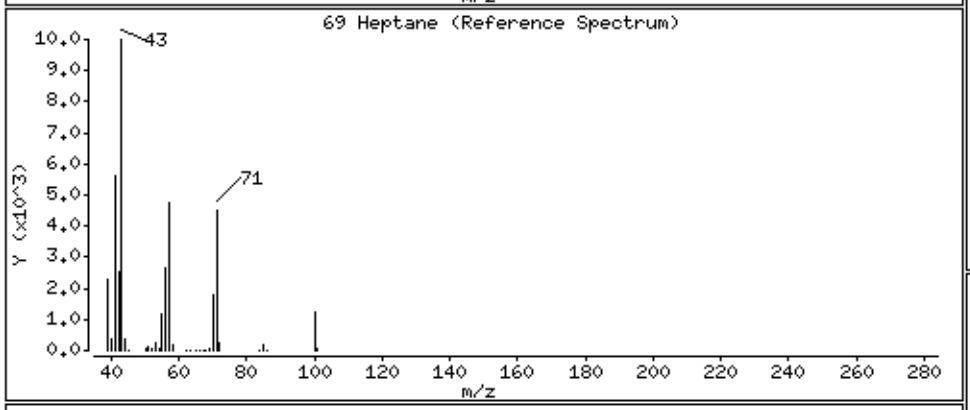
Column diameter: 0.32

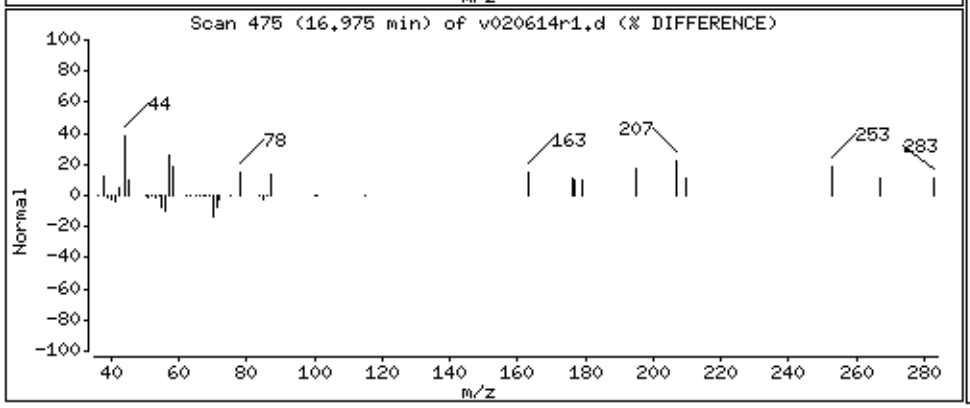
69 Heptane

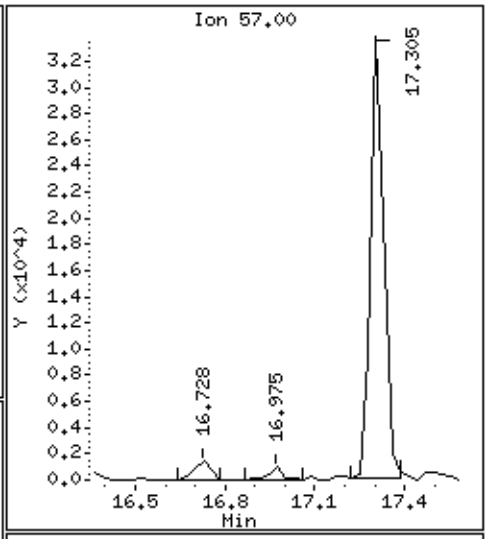
Concentration: 0.07024 PPBV

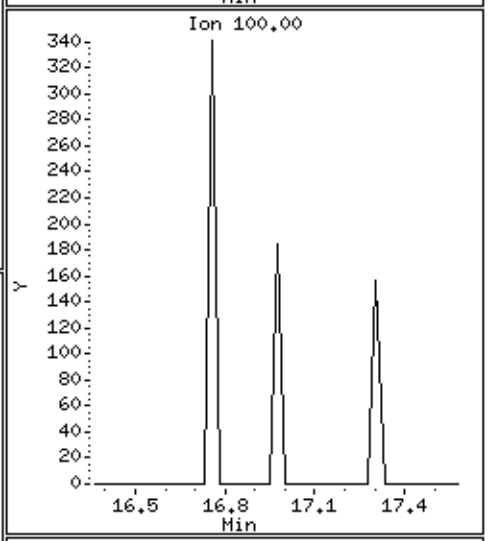


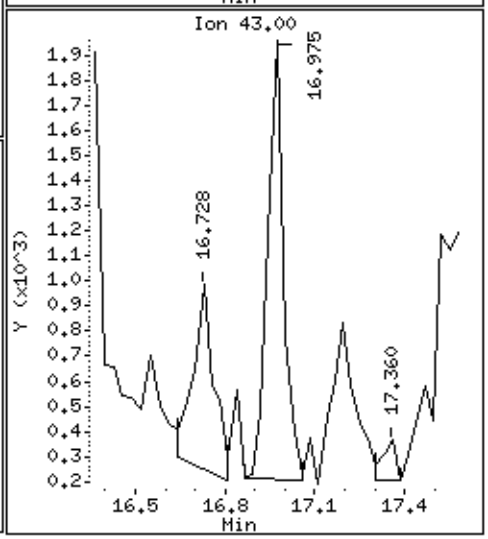












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

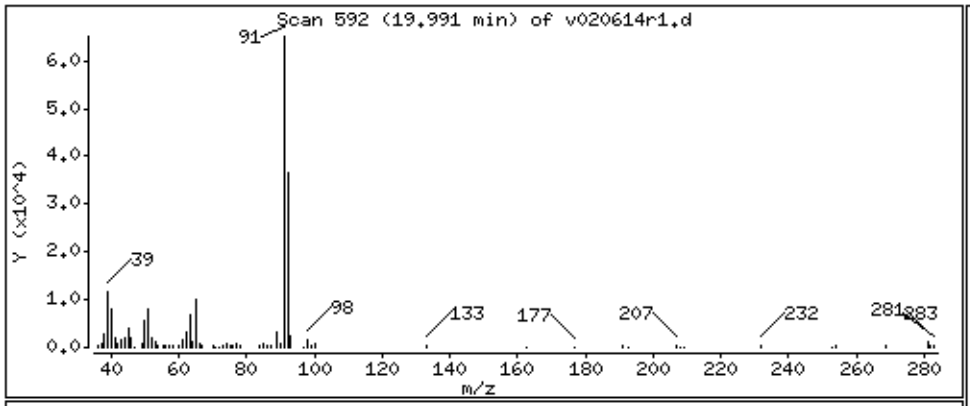
Operator: ef

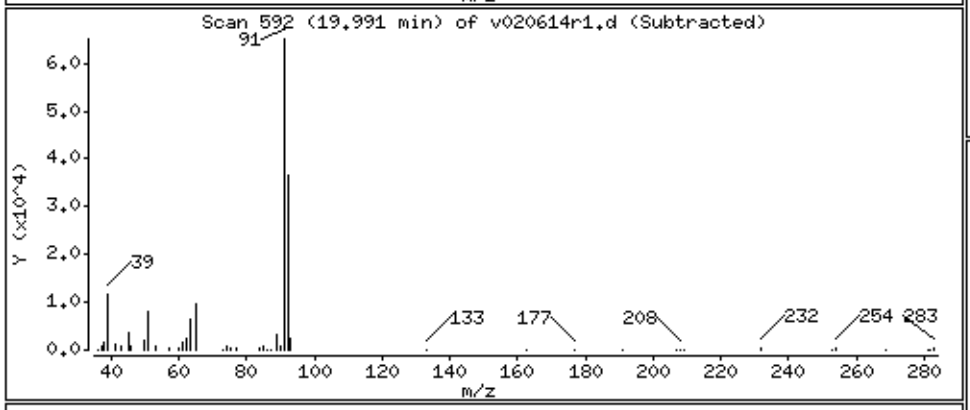
Column phase: RTx-624

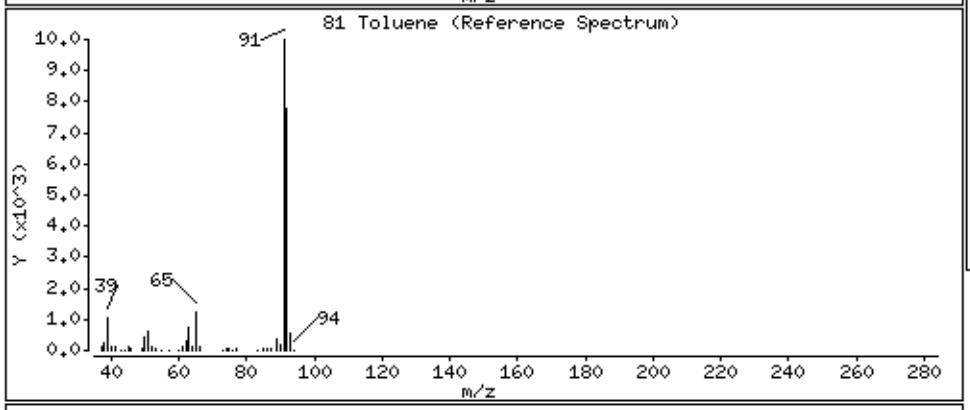
Column diameter: 0.32

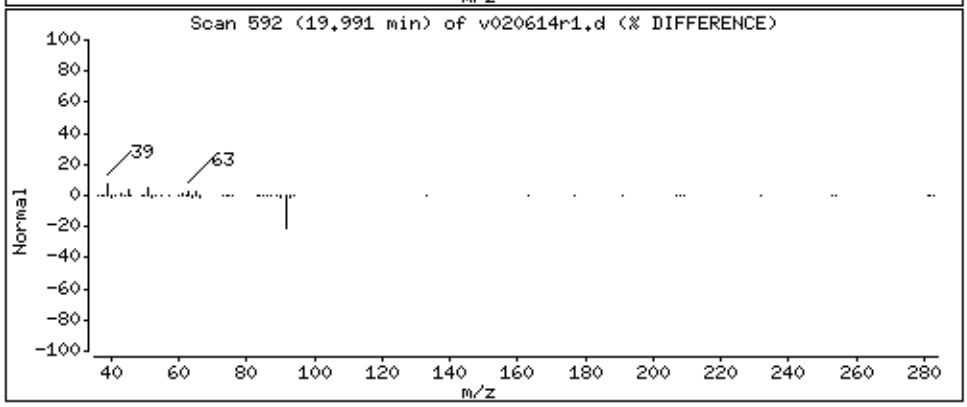
81 Toluene

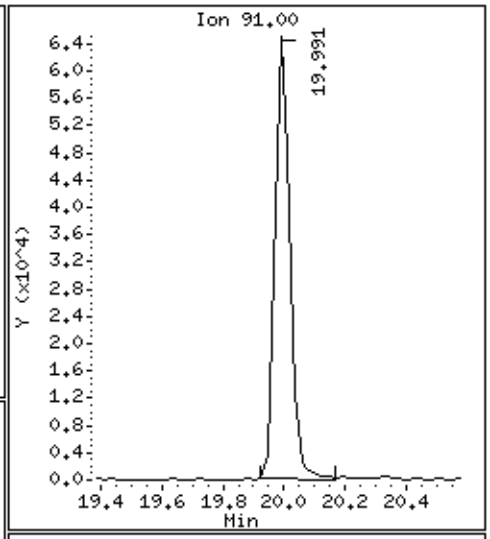
Concentration: 1.774 PPBV

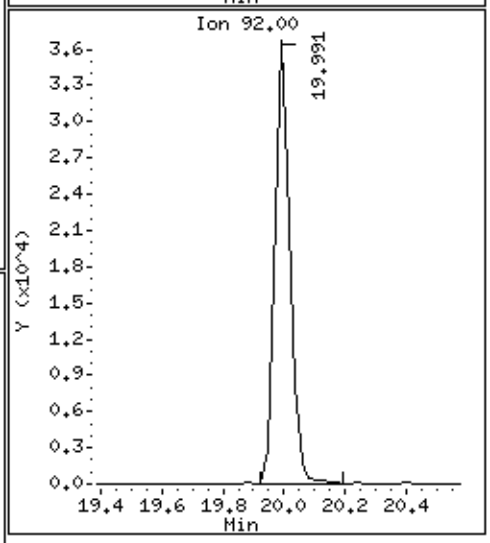












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

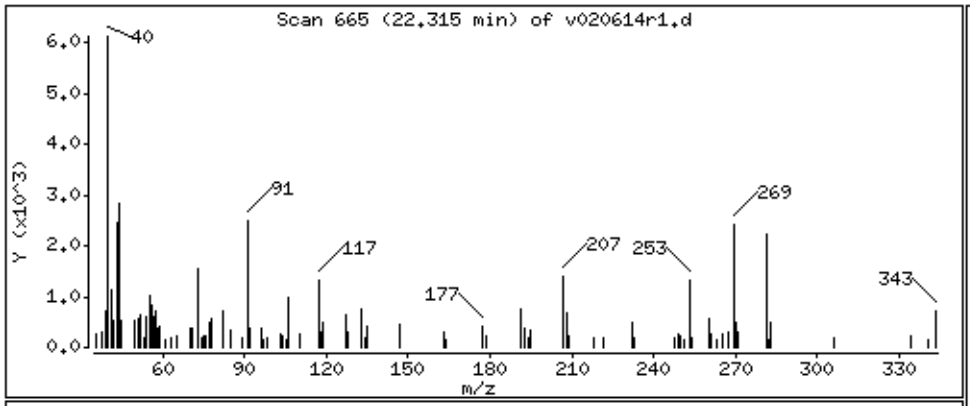
Operator: ef

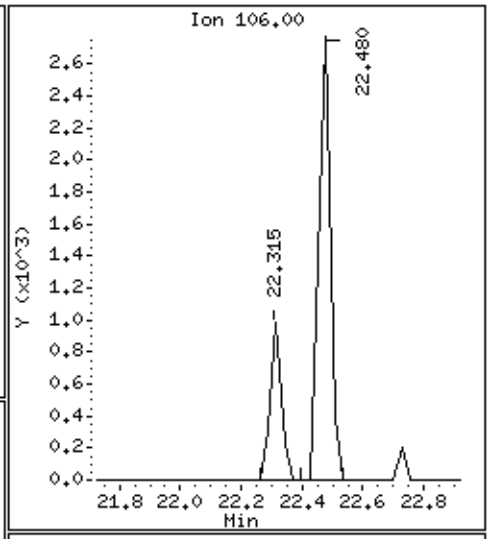
Column phase: RTx-624

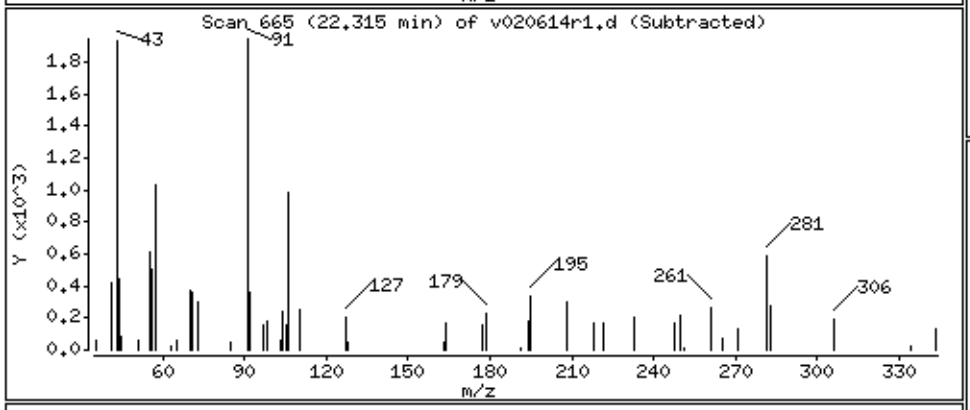
Column diameter: 0.32

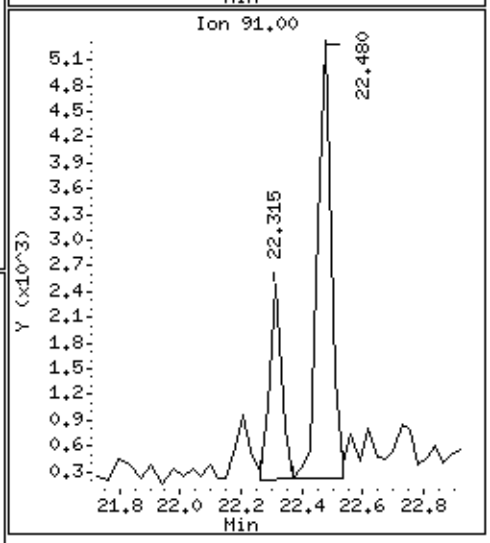
95 Ethyl Benzene

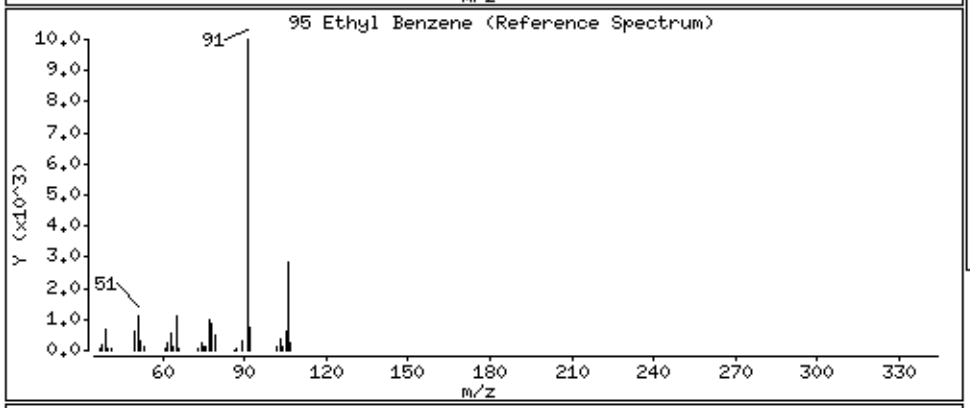
Concentration: 0.04730 PPBV

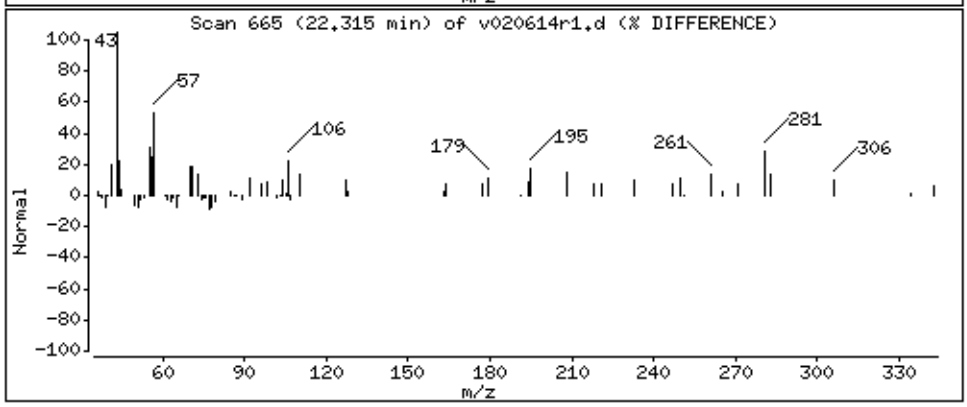












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

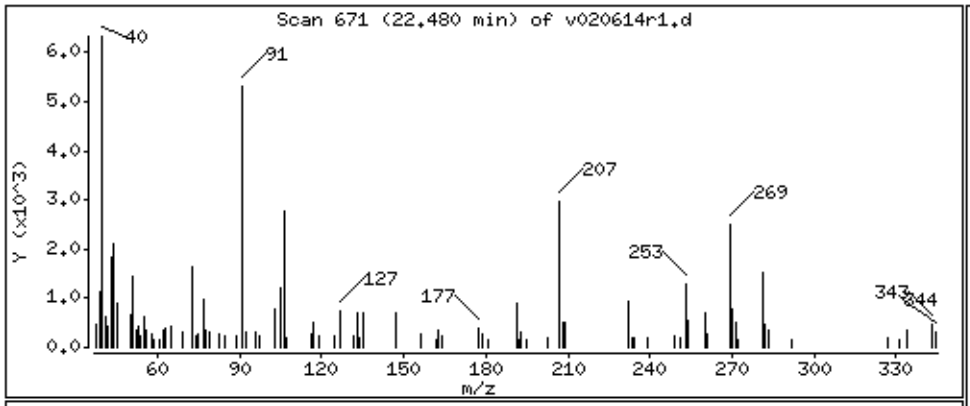
Operator: ef

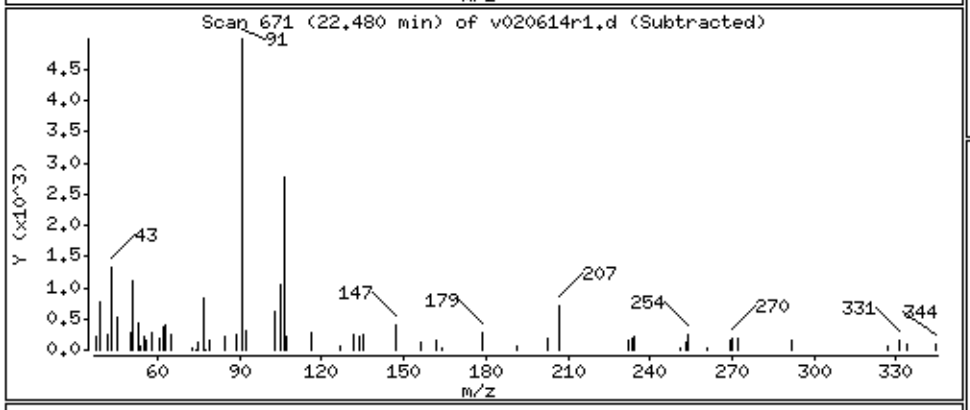
Column phase: RTx-624

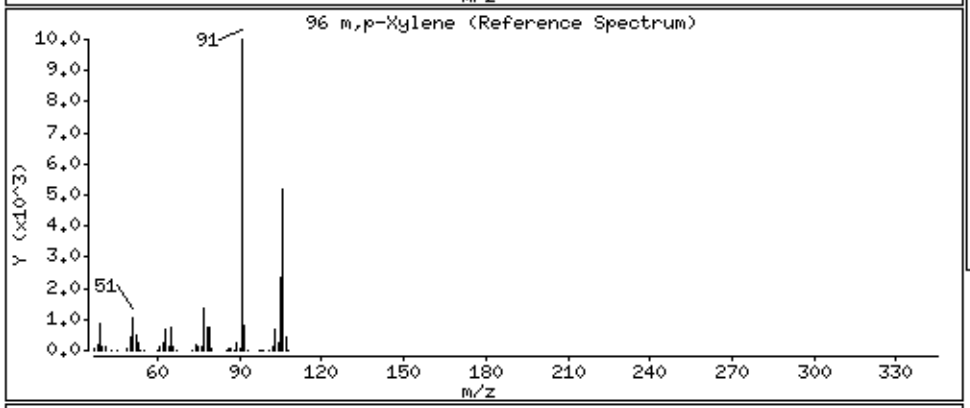
Column diameter: 0.32

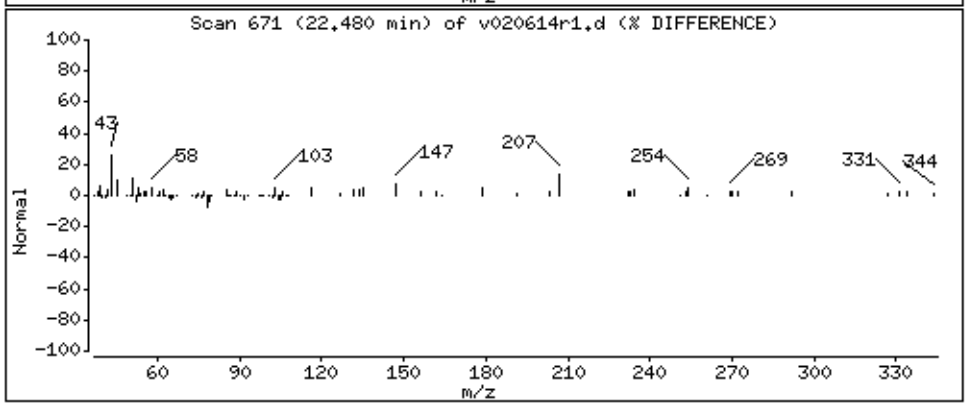
96 m,p-Xylene

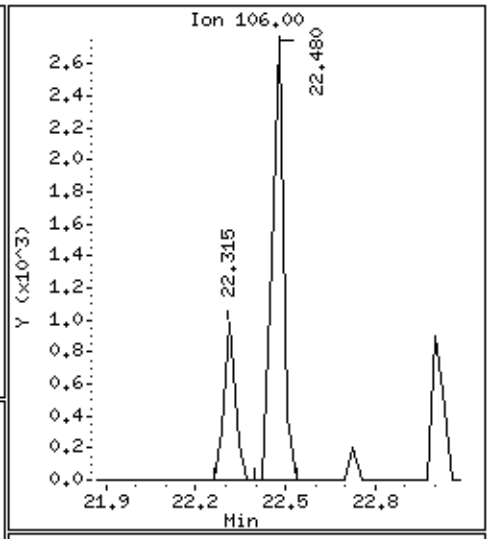
Concentration: 0.1397 PPBV

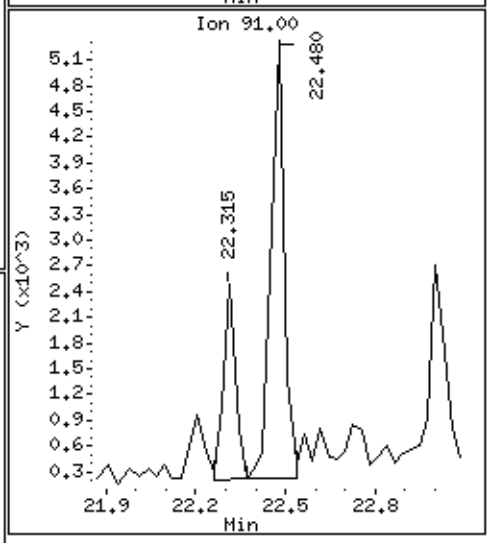












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

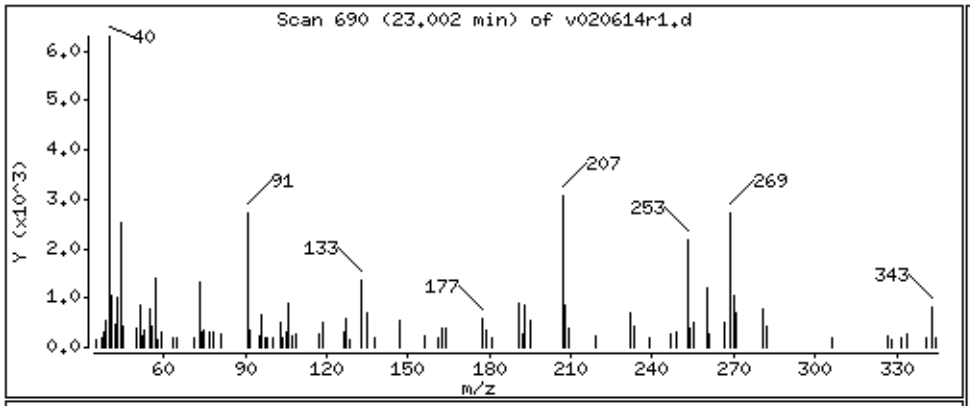
Operator: ef

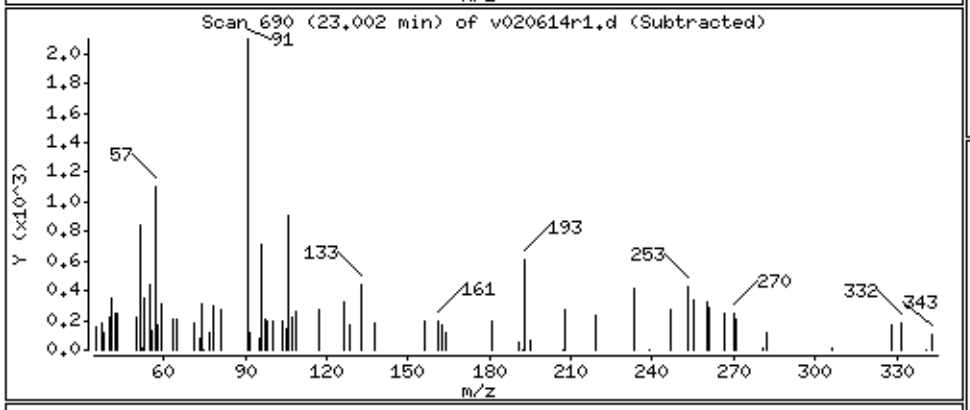
Column phase: RTx-624

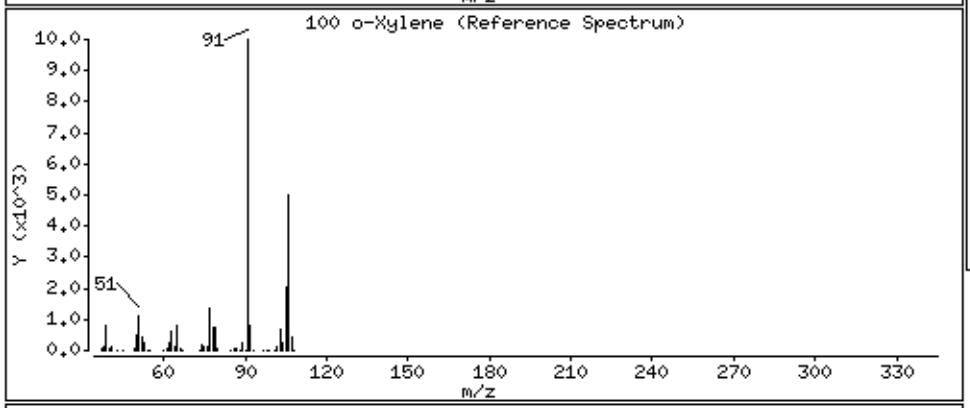
Column diameter: 0.32

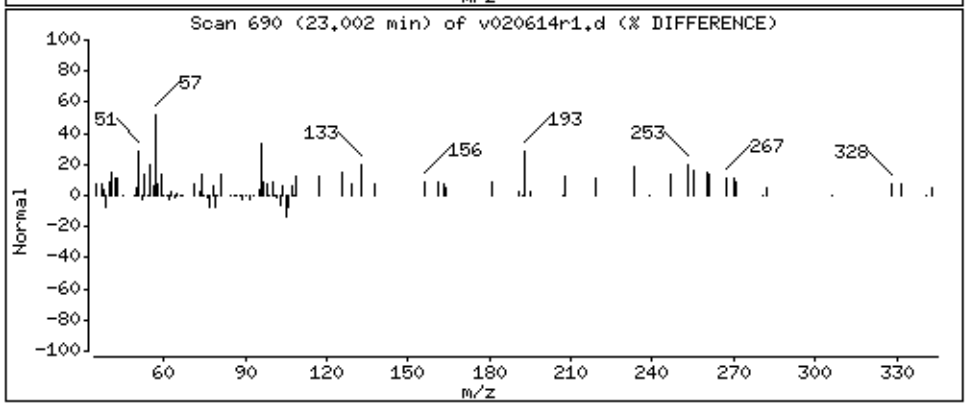
100 o-Xylene

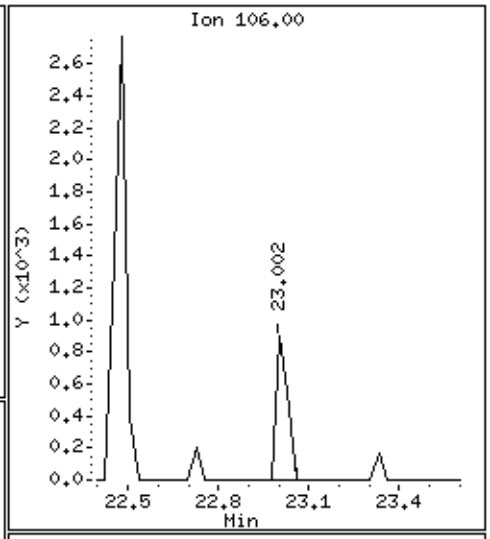
Concentration: 0.04852 PPBV

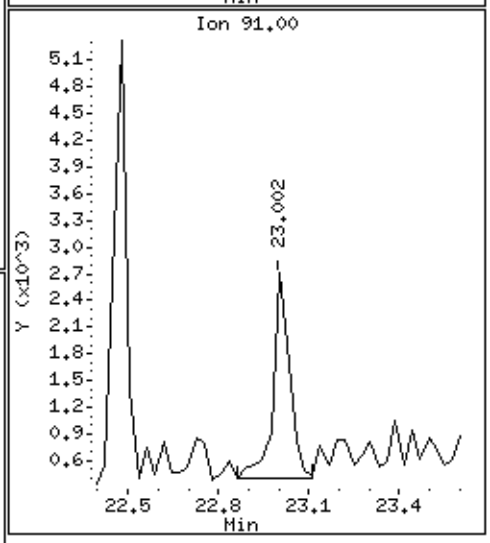












Data File: /chem/msdv.i/06Feb2015.b/v020614r1.d

Date : 06-FEB-2015 15:23

Client ID:

Instrument: msdv.i

Sample Info: 250mL# 33658

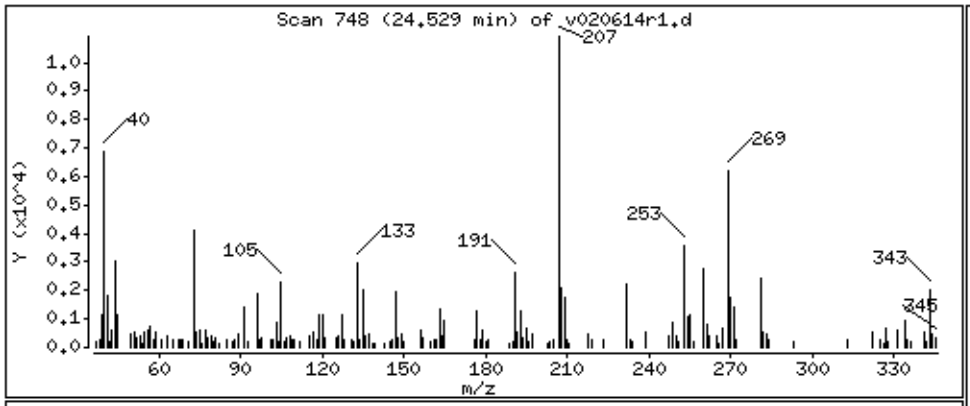
Operator: ef

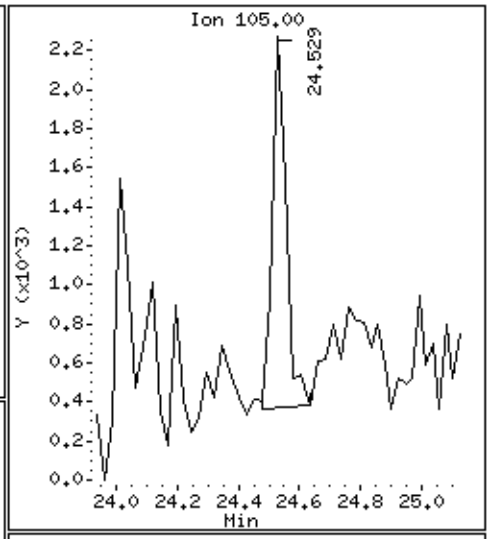
Column phase: RTx-624

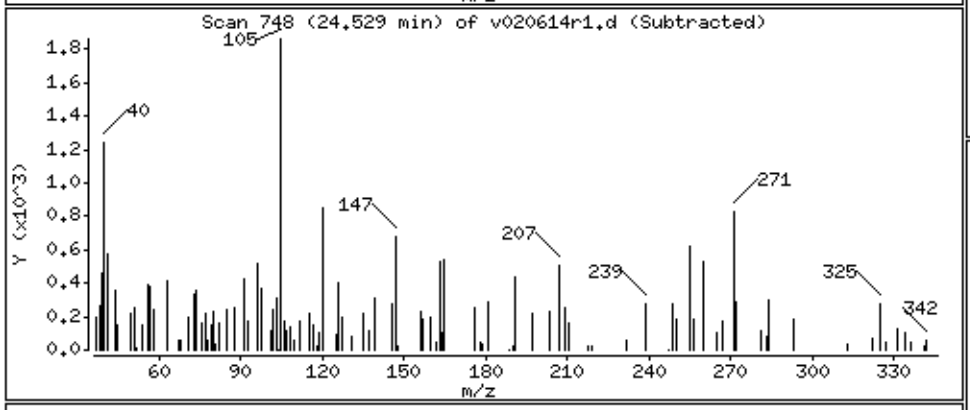
Column diameter: 0.32

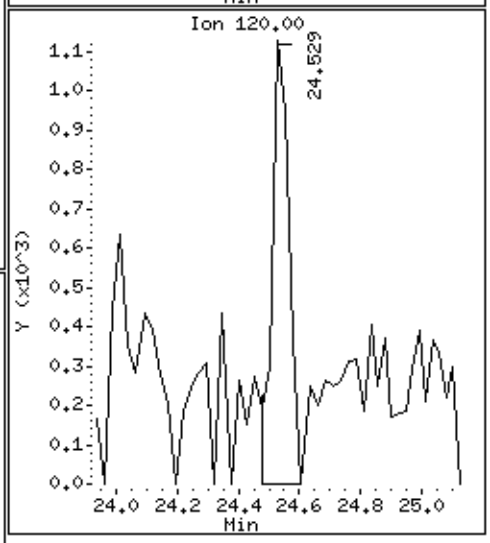
120 1,2,4-Trimethylbenzene

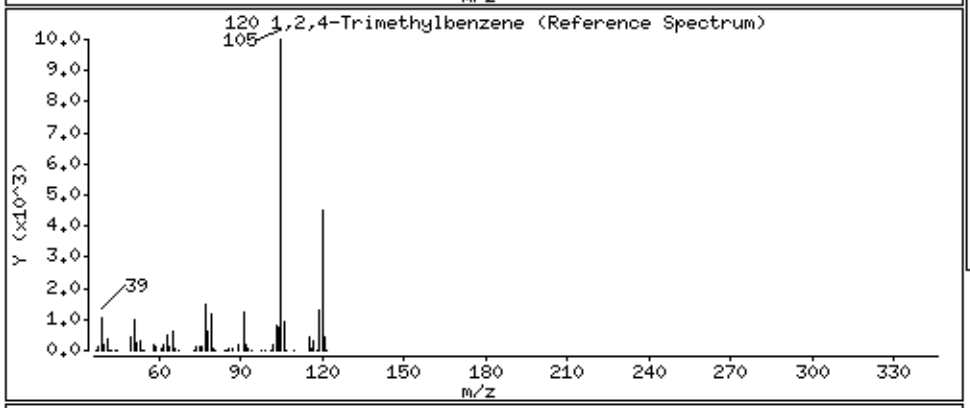
Concentration: 0.06758 PPBV

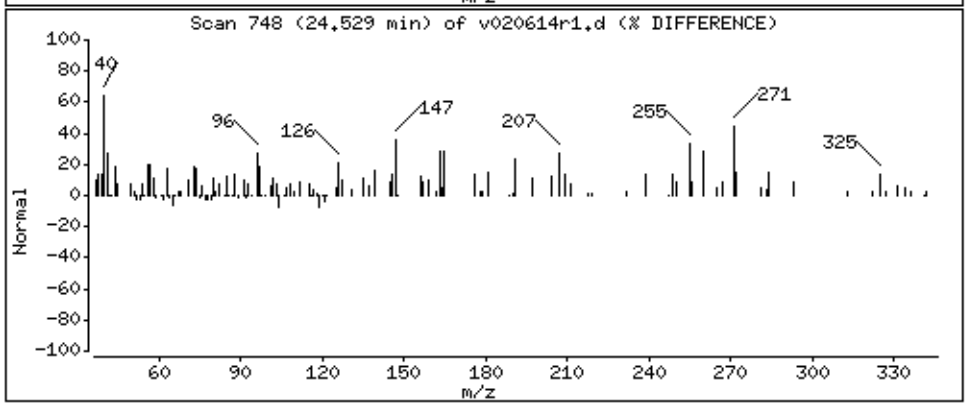












QC Results and Raw Data

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Client Sample ID: Lab Blank

Lab ID#: 1502053AR1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020609r1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 11:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.25 J	1.2	0.60 J
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1502053AR1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020609r1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 11:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020609r1.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 06-FEB-2015 11:49
Operator : ef Inst ID: msdv.i
Smp Info : 250mL# 34034
Misc Info : Humid
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 26-Jun-2015 11:01 dbailey Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15Nmdl.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.933	15.934 (1.000)	130	193389	5.00000		80.00- 120.00	100.00
15.933	15.934 (1.000)	128	148538			0.00- 30.00	76.81
15.933	15.934 (1.000)	49	437171			0.00- 30.00	226.06
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	774501	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	119157			0.00- 30.00	15.39
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	622984	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	339048			0.00- 30.00	54.42
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	291639	4.81108	4.811	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	140150			25.13- 85.13	48.06
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.879	19.879 (1.149)	98	734605	5.06567	5.066	80.00- 120.00	100.00
19.879	19.879 (1.149)	70	77629			0.00- 40.74	10.57

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)								
19.879	19.879	(1.149)	100	476450			36.73- 96.73	64.86
$ 106 Bromofluorobenzene						CAS #: 460-00-4		
23.704	23.704	(1.067)	174	289507	4.95928	4.959	80.00- 120.00	100.00
23.678	23.704	(1.066)	95	356838			95.17- 155.17	123.26
23.704	23.704	(1.067)	176	279310			64.74- 124.74	96.48
31 Acetone						CAS #: 67-64-1		
12.871	12.816	(0.808)	58	11306	0.25319	0.2532	80.00- 120.00	100.00(a)
12.871	12.816	(0.808)	43	40965			326.03- 386.03	362.33

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020609r1.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: Humid

Calibration Date: 06-FEB-2015
Calibration Time: 06:35
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	193389	-8.35
71 1,4-Difluorobenze	830109	498065	1162153	774501	-6.70
92 Chlorobenzene-d5	628752	377251	880253	622984	-0.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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: 26-Jun-2015 11:08

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 06Feb2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: ef
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	4.811	96.22	70-130
$ 80 Toluene-d8	5.000	5.066	101.31	70-130
$ 106 Bromofluorobenzene	5.000	4.959	99.19	70-130

Data File: /chem/msdv.i/06Feb2015.b/v020609r1.d

Date : 06-FEB-2015 11:49

Client ID: Lab Blank

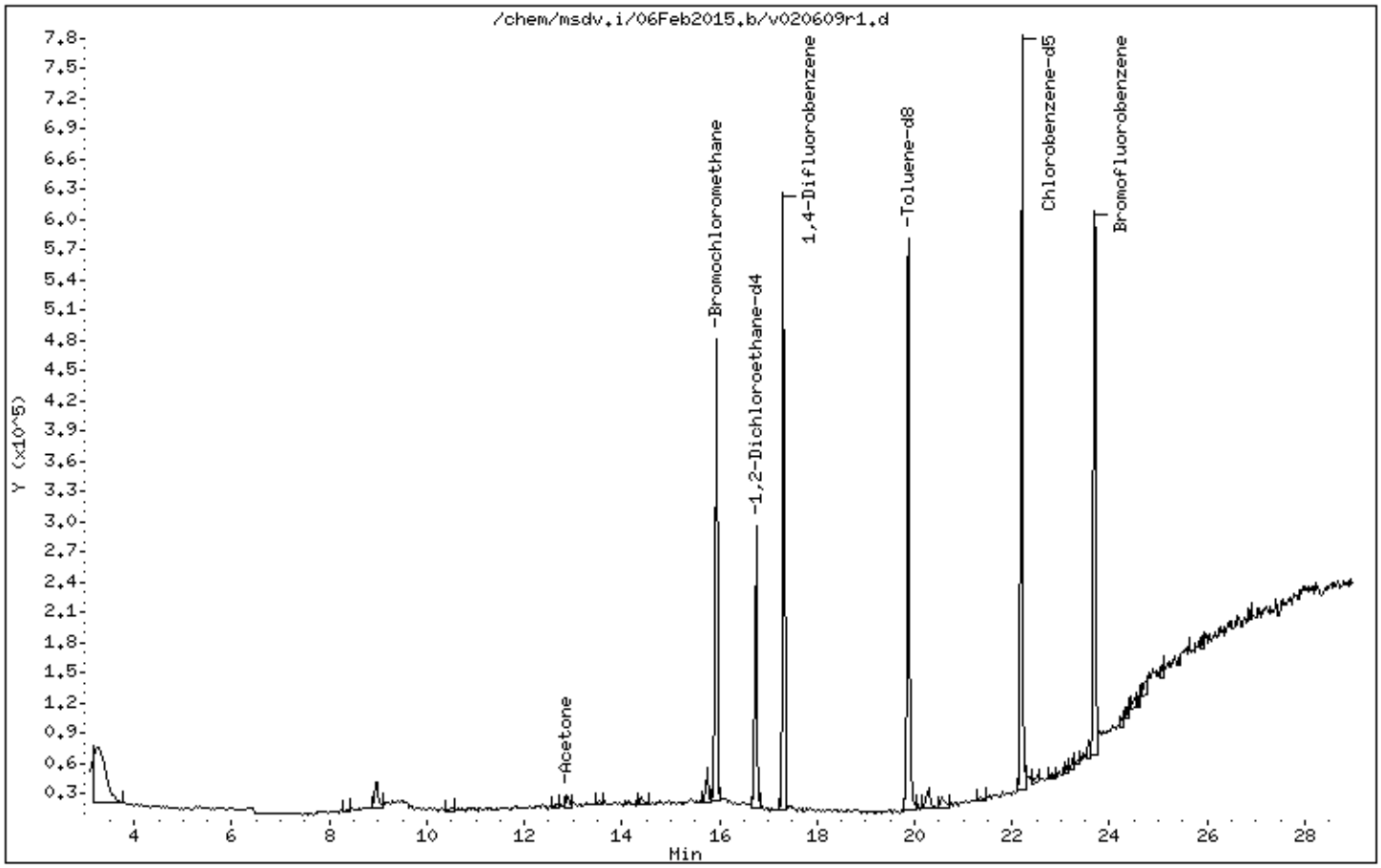
Instrument: msdv.i

Sample Info: 250mL# 34034

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdv.i/06Feb2015.b/v020609r1.d

Date : 06-FEB-2015 11:49

Client ID: Lab Blank

Instrument: msdv.i

Sample Info: 250mL# 34034

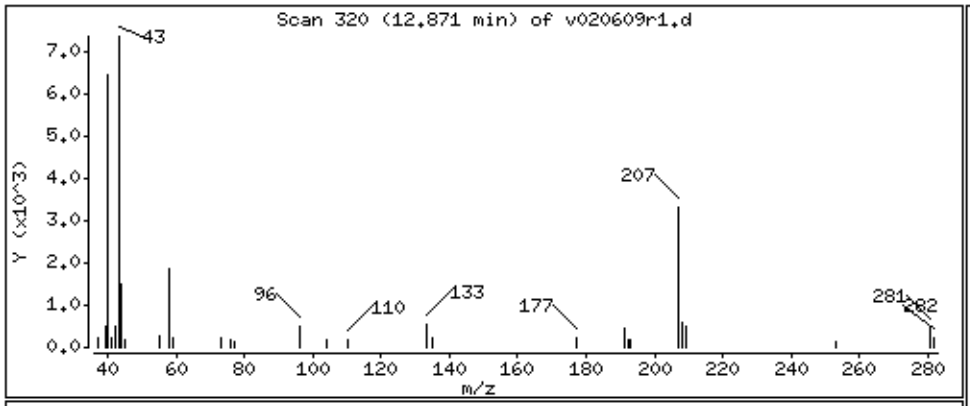
Operator: ef

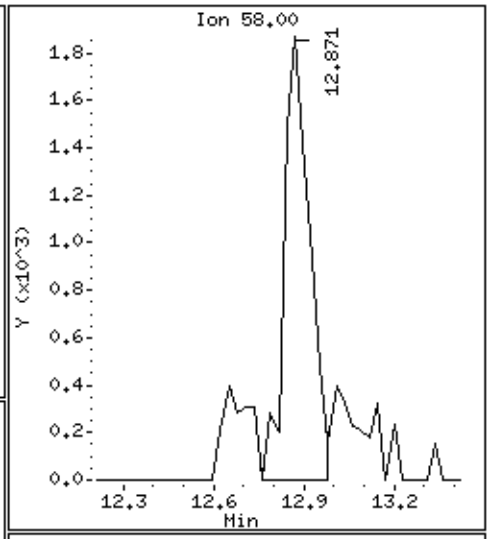
Column phase: RTx-624

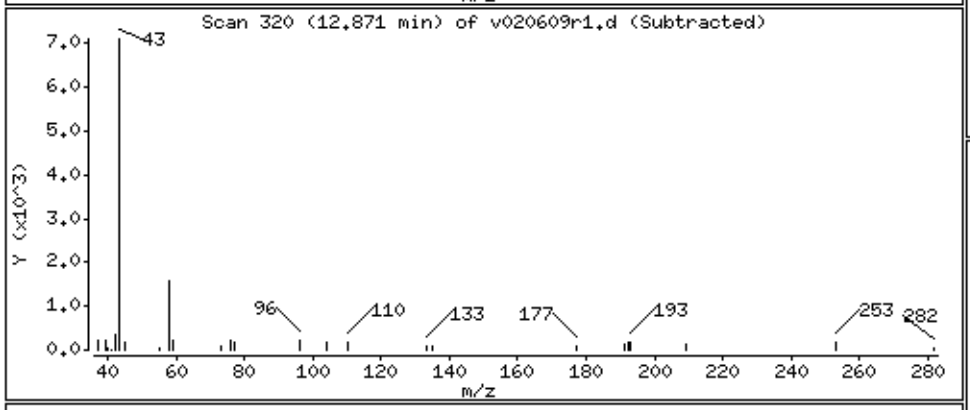
Column diameter: 0.32

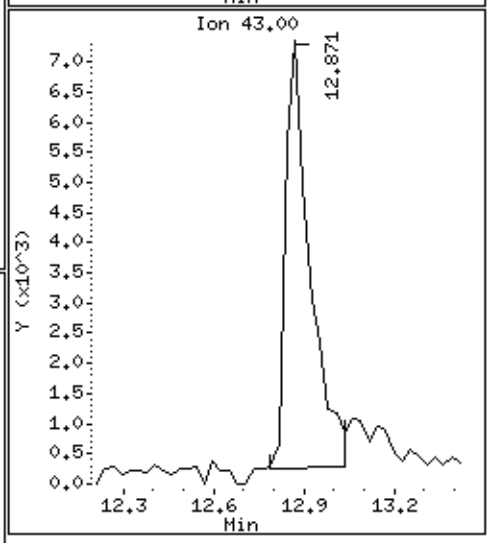
31 Acetone

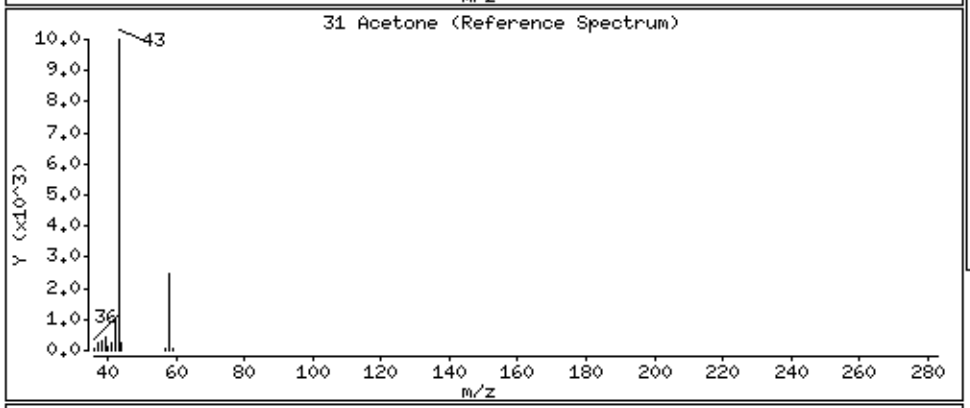
Concentration: 0.2532 PPBV

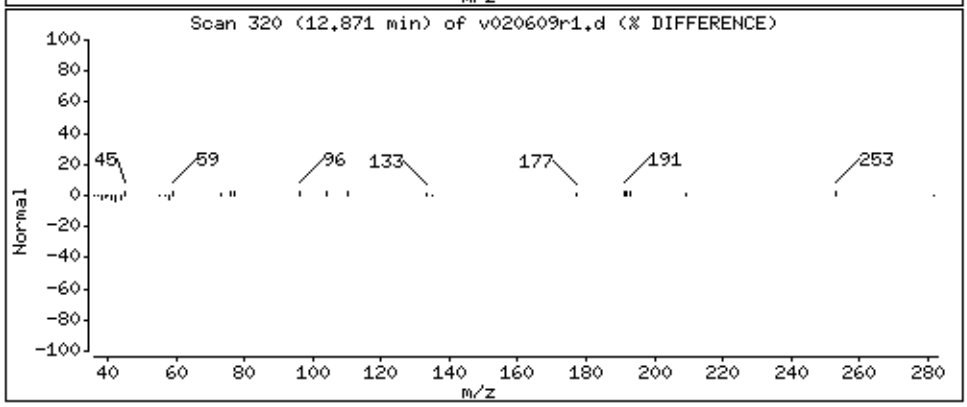












LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1502053AR1

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	B6-4IA	107		102		99				0
02	B6-5IA	106		98		101				0
03	B6-AA-1	96		100		105				0
04	B6-3IA	101		100		102				0
05	B6-3IAD	102		101		98				0
06	Lab Blank	96		101		99				0
07	CCV	94		98		99				0
08	LCS	95		100		95				0
09	LCSD	97		100		97				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:	1502053AR1
Lab File ID:	v020602.d	Date Analyzed:	02/06/2015
Instrument ID:	msdv.i	Time Analyzed:	06:35 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	628752		22.21		830109		17.3		211005		15.93	
	UPPER LIMIT	880253		22.54		1162153		17.63		295407		16.26	
	LOWER LIMIT	377251		21.88		498065		16.97		126603		15.60	
	CLIENT SAMPLE NO												
01	B6-4IA	623974		22.21		785028		17.3		178989		15.93	
02	B6-5IA	631267		22.21		802340		17.3		183871		15.93	
03	B6-AA-1	635801		22.21		802167		17.3		195681		15.93	
04	B6-3IA	620483		22.21		797431		17.3		192049		15.93	
05	B6-3IAD	632617		22.21		779140		17.3		185162		15.93	
06	Lab Blank	622984		22.21		774501		17.3		193389		15.93	
07	CCV	628752		22.21		830109		17.3		211005		15.93	
08	LCS	621201		22.21		802446		17.3		204477		15.93	
09	LCSD	627568		22.21		798604		17.3		199785		15.93	
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: v020604.d & v020603.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 2/6/15 & 2/6/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	88		92		4.4	
79-34-5	1,1,2,2-Tetrachloroethane	94		95		1.0	
79-00-5	1,1,2-Trichloroethane	102		100		2.0	
75-34-3	1,1-Dichloroethane	95		97		2.1	
75-35-4	1,1-Dichloroethene	96		100		4.1	
120-82-1	1,2,4-Trichlorobenzene	90		88		2.2	
95-63-6	1,2,4-Trimethylbenzene	96		97		1.0	
106-93-4	1,2-Dibromoethane (EDB)	100		100		0	
95-50-1	1,2-Dichlorobenzene	89		89		0	
107-06-2	1,2-Dichloroethane	95		95		0	
78-87-5	1,2-Dichloropropane	99		99		0	
108-67-8	1,3,5-Trimethylbenzene	95		95		0	
106-99-0	1,3-Butadiene	98		98		0	
541-73-1	1,3-Dichlorobenzene	97		98		1.0	
106-46-7	1,4-Dichlorobenzene	81		83		2.4	
123-91-1	1,4-Dioxane	86		83		3.6	
540-84-1	2,2,4-Trimethylpentane	96		96		0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	97		91		6.4	
591-78-6	2-Hexanone	96		98		2.1	
67-63-0	2-Propanol	106		106		0	
107-05-1	3-Chloropropene	90		86		4.5	
622-96-8	4-Ethyltoluene	98		95		3.1	
108-10-1	4-Methyl-2-pentanone	100		99		1.0	
67-64-1	Acetone	89		93		4.4	
100-44-7	alpha-Chlorotoluene	105		105		0	
71-43-2	Benzene	93		92		1.1	
75-27-4	Bromodichloromethane	99		96		3.1	
75-25-2	Bromoform	103		98		5.0	
74-83-9	Bromomethane	102		101		0.98	
75-15-0	Carbon Disulfide	84		86		2.4	
56-23-5	Carbon Tetrachloride	90		92		2.2	
108-90-7	Chlorobenzene	96		95		1.0	
75-00-3	Chloroethane	100		105		4.9	
67-66-3	Chloroform	94		95		1.0	
74-87-3	Chloromethane	100		102		2.0	
156-59-2	cis-1,2-Dichloroethene	99		102		3.0	
10061-01-5	cis-1,3-Dichloropropene	90		90		0	
98-82-8	Cumene	97		96		1.0	
110-82-7	Cyclohexane	93		96		3.2	
124-48-1	Dibromochloromethane	102		98		4.0	
64-17-5	Ethanol	126		126		0	
100-41-4	Ethyl Benzene	95		94		1.0	
75-69-4	Freon 11	95		96		1.0	
76-13-1	Freon 113	92		95		3.2	
76-14-2	Freon 114	97		101		4.0	

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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: v020604.d & v020603.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 2/6/15 & 2/6/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
75-71-8	Freon 12	97		98		1.0	
142-82-5	Heptane	103		101		2.0	
87-68-3	Hexachlorobutadiene	89		86		3.4	
110-54-3	Hexane	96		99		3.1	
108-38-3	m,p-Xylene	96		96		0	
1634-04-4	Methyl tert-butyl ether	93		96		3.2	
75-09-2	Methylene Chloride	93		95		2.1	
91-20-3	Naphthalene	88		87		1.1	
95-47-6	o-Xylene	100		99		1.0	
103-65-1	Propylbenzene	97		94		3.1	
100-42-5	Styrene	101		99		2.0	
127-18-4	Tetrachloroethene	98		96		2.1	
109-99-9	Tetrahydrofuran	99		102		3.0	
108-88-3	Toluene	96		96		0	
156-60-5	trans-1,2-Dichloroethene	84		88		4.6	
10061-02-6	trans-1,3-Dichloropropene	96		94		2.1	
79-01-6	Trichloroethene	98		97		1.0	
75-01-4	Vinyl Chloride	102		103		0.98	

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

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JAN-2015 16:43
End Cal Date : 27-JAN-2015 14:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Calibration File Names:
Level 5: /chem/msdv.i/23Jan2015.b/v012306a.d
Level 6: /chem/msdv.i/23Jan2015.b/v012307.d
Level 7: /chem/msdv.i/27Jan2015.b/v012705.d
Level 8: /chem/msdv.i/27Jan2015.b/v012706.d
Level 9: /chem/msdv.i/27Jan2015.b/v012709.d
Level 10: /chem/msdv.i/23Jan2015.b/v012311.d
Level 11: /chem/msdv.i/23Jan2015.b/v012312.d
Level 12: /chem/msdv.i/23Jan2015.b/v012313.d
Level 13: /chem/msdv.i/27Jan2015.b/v012707.d
Level 16: /chem/msdv.i/27Jan2015.b/v012708.d

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
1 Freon 134a	+++++	+++++	1.05579	0.96197	0.95348	+++++		
	+++++	+++++	1.00837	0.94819			0.98556	4.659
208 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 Freon 152A	+++++	+++++	0.75156	0.63786	0.62506	+++++		
	+++++	+++++	0.67172	0.62622			0.66248	8.038
3 Propylene	+++++	+++++	2.14669	2.11709	2.22802	2.03575		
	1.85663	1.90263	+++++	+++++			2.04780	7.071
4 Dichlorodifluoromethane/Fr12	+++++	4.69575	3.89645	3.70258	4.36500	3.96886		
	3.61243	3.66094	+++++	+++++			3.98600	10.146
5 Freon 22	+++++	+++++	+++++	+++++	2.66601	+++++		
	+++++	+++++	2.82724	2.76524			2.75283	2.954

Eurofins Air Toxics Inc.

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Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
6 Freon 114	3.42120	3.73148	3.28379	3.13738	3.70132	3.33663		
	3.05978	3.13618	#####	#####			3.35097	7.598
7 Isobutylene	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
8 Chloromethane	#####	3.32024	2.60843	2.41706	2.76615	2.49220		
	2.23819	2.16871	#####	#####			2.57300	15.080
9 Butane	#####	#####	0.47309	0.45549	0.51149	0.45106		
	0.41651	0.43695	#####	#####			0.45743	7.121
10 Vinyl Chloride	#####	2.15449	1.88838	1.84610	2.22777	2.02089		
	1.84475	1.86321	#####	#####			1.97794	8.040
11 1,3-Butadiene	#####	2.24512	1.76413	1.81688	2.17563	1.93161		
	1.80842	1.86450	#####	#####			1.94375	9.800
12 Bromomethane	#####	1.32009	1.08359	1.02192	1.44840	1.31753		
	1.21323	1.20470	#####	#####			1.22992	11.928
13 Vinyl Bromide	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
14 Freon 21	#####	#####	3.14056	2.97136	2.85387	#####		
	#####	#####	2.93076	2.80170			2.93965	4.430
15 1-Pentene	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####

Eurofins Air Toxics Inc.

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Integrator : HP RTE
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Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
16 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
17 Chloroethane	+++++	+++++	0.83275	0.79576	0.99609	0.89999		
	0.81083	0.82262	+++++	+++++			0.85967	8.829
18 Isopentane	+++++	+++++	1.93206	1.75645	2.13895	1.95650		
	1.77566	1.81239	+++++	+++++			1.89534	7.643
19 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
20 Trichlorofluoromethane/Fr11	4.34032	5.06248	4.13386	3.90608	4.66731	4.16896		
	3.82591	3.88453	+++++	+++++			4.24868	10.120
21 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
22 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
23 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
24 Ethanol	+++++	+++++	0.54280	0.95193	1.12106	0.99629		
	0.93128	0.93796	+++++	+++++			0.91355	21.324
25 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

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Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
26 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
27 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
28 Freon 113	3.05266	3.31255	3.14344	2.88907	3.31917	3.01022		
	2.76441	2.83607	+++++	+++++			3.04095	6.856
29 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
30 1,1-Dichloroethene	+++++	0.99462	0.97758	1.03786	1.16489	1.02558		
	0.96855	0.97862	+++++	+++++			1.02110	6.707
31 Acetone	+++++	+++++	1.31117	1.28772	1.16984	1.09472		
	1.01838	1.04525	+++++	+++++			1.15451	10.719
32 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
33 Carbon Disulfide	+++++	+++++	4.20891	4.04658	4.73818	4.29612		
	3.99456	4.12998	+++++	+++++			4.23572	6.352
34 2-Propanol	+++++	+++++	4.44840	4.53817	4.96245	4.59854		
	4.39228	4.47723	+++++	+++++			4.56951	4.494
35 3-Chloroprene	+++++	0.70657	0.61881	0.51657	0.71644	0.67031		
	0.63822	0.65180	+++++	+++++			0.64553	10.354

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Integrator : HP RTE
Method file : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
36 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
37 Methylene Chloride	+++++	1.62816	1.42059	1.31835	1.53476	1.43119		
	1.31873	1.32777	+++++	+++++			1.42565	8.373
38 tert-butyl alcohol	+++++	+++++	6.27237	5.92401	5.05657	4.68459		
	4.35732	4.49661	+++++	+++++			5.13191	15.436
39 MTBE	+++++	4.84625	4.27039	4.17425	5.02507	4.53050		
	4.17566	4.18245	+++++	+++++			4.45779	7.925
40 trans-1,2-Dichloroethene	+++++	0.97418	1.06530	1.00890	1.19446	1.09980		
	0.99743	1.01746	+++++	+++++			1.05108	7.249
41 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
42 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
43 Hexane	+++++	4.39314	4.05525	3.79631	4.56638	4.06382		
	3.65651	3.69096	+++++	+++++			4.03177	8.654
44 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
45 Isopropyl ether	+++++	+++++	9.86439	8.96093	10.81973	9.74702		
	8.80502	8.79628	+++++	+++++			9.49890	8.428

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
46 1,1-Dichloroethane	+++++	4.18620	3.50892	3.56336	4.14842	3.77995		
	3.47153	3.49538	+++++	+++++			3.73625	8.350
47 Vinyl Acetate	+++++	+++++	0.20600	0.32907	0.45437	0.44083		
	0.40286	0.42563	+++++	+++++			0.37646	25.096
48 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
49 Ethyl-tert-butyl ether	+++++	+++++	7.41881	7.21509	8.35030	7.60156		
	6.95727	7.05020	+++++	+++++			7.43221	6.835
50 cis-1,2-Dichloroethene	+++++	1.43134	1.07597	1.12864	1.27821	1.17488		
	1.06158	1.09492	+++++	+++++			1.17793	11.365
51 2-Butanone	+++++	+++++	0.69578	0.82336	0.86602	0.78897		
	0.75565	0.76613	+++++	+++++			0.78265	7.493
52 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
53 Tetrahydrofuran	+++++	+++++	3.70325	3.60164	3.64864	3.32919		
	3.08349	3.12723	+++++	+++++			3.41557	7.992
55 Chloroform	+++++	3.60788	3.52552	3.36383	3.85471	3.50942		
	3.23411	3.28743	+++++	+++++			3.48327	6.098
56 1,1-Dicholoropropene	+++++	+++++	0.85150	0.91189	0.92110	+++++		
	+++++	+++++	0.87506	0.87289			0.88649	3.281

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
57 Cyclohexane	+++++	2.92984	2.23906	2.17702	2.56907	2.35722		
	2.11920	2.17880	+++++	+++++			2.36717	12.280
58 1,1,1-Trichloroethane	4.64979	4.26610	3.65119	3.59023	4.13868	3.80791		
	3.46208	3.48174	+++++	+++++			3.88096	11.033
59 Carbon Tetrachloride	3.20801	3.68637	3.39549	3.31417	4.12179	3.74650		
	3.41698	3.45060	+++++	+++++			3.54249	8.318
60 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
61 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
62 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
63 2,2,4-Trimethylpentane	+++++	5.26032	4.03563	4.00276	4.68454	4.22568		
	3.88430	3.81881	+++++	+++++			4.27315	12.209
64 Benzene	+++++	1.60986	1.13970	1.12874	1.31989	1.20092		
	1.15492	1.13498	+++++	+++++			1.24129	14.161
66 tert-amyl methyl ether	+++++	+++++	0.30466	0.31954	0.35455	0.32347		
	0.30642	0.30513	+++++	+++++			0.31896	6.014
67 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Eurofins Air Toxics Inc.

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Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
68 1,2-Dichloroethane	+++++	0.83967	0.72046	0.70755	0.80179	0.72592		
	0.68845	0.68793	+++++	+++++			0.73882	7.959
69 Heptane	+++++	0.66252	0.52586	0.53519	0.65399	0.60391		
	0.57655	0.55588	+++++	+++++			0.58770	9.313
70 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
72 Trichloroethene	0.53146	0.68906	0.62040	0.62892	0.70999	0.64540		
	0.62277	0.62005	+++++	+++++			0.63351	8.433
73 Methylcyclohexane	+++++	+++++	0.78111	0.74299	0.85816	0.78031		
	0.75789	0.74659	+++++	+++++			0.77784	5.471
74 1,2-Dichloropropane	+++++	0.63876	0.59213	0.55690	0.68126	0.61147		
	0.59269	0.59115	+++++	+++++			0.60919	6.599
75 1,4-Dioxane	+++++	0.47404	0.34976	0.39549	0.35097	0.30795		
	0.30274	0.30228	+++++	+++++			0.35475	17.671
76 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
77 Bromodichloromethane	0.82148	0.98183	0.89726	0.89772	1.01422	0.93281		
	0.90067	0.90226	+++++	+++++			0.91853	6.409
78 cis-1,3-Dichloropropene	+++++	0.79632	0.68925	0.70399	0.84281	0.78015		
	0.75098	0.76409	+++++	+++++			0.76108	6.956

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JAN-2015 16:43
End Cal Date : 27-JAN-2015 14:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
79 4-Methyl-2-pentanone	+++++	1.83927	1.79759	1.81327	1.78651	1.65849		
	1.64774	1.61501	+++++	+++++			1.73684	5.330
81 Toluene	+++++	1.58815	1.34907	1.34899	1.55016	1.41117		
	1.35647	1.29685	+++++	+++++			1.41441	7.870
82 trans-1,3-Dichloropropene	+++++	0.92606	0.76231	0.83549	0.93579	0.83992		
	0.81778	0.84624	+++++	+++++			0.85194	7.135
83 1,3-Dichloropropane	+++++	+++++	0.64680	0.67046	0.64482	+++++		
	+++++	+++++	0.63888	0.63169			0.64653	2.261
84 1,1,2-Trichloroethane	0.56916	0.76189	0.67219	0.63473	0.77626	0.68689		
	0.65988	0.68338	+++++	+++++			0.68055	9.751
85 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
86 Tetrachloroethene	1.18728	1.08540	1.00896	0.93774	1.11913	0.97613		
	0.93539	0.94557	+++++	+++++			1.02445	9.293
87 2-Hexanone	+++++	+++++	0.82662	0.99945	0.89353	0.84115		
	0.86828	0.89486	+++++	+++++			0.88732	6.919
88 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
89 Dibromochloromethane	1.14800	1.38011	1.30231	1.24371	1.47841	1.35284		
	1.31732	1.36226	+++++	+++++			1.32312	7.406

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Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
90 1,2-Dibromoethane	0.93522	1.19393	1.11808	1.13233	1.28861	1.14916		
	1.11927	1.15611	#####	#####			1.13659	8.681
91 1,1,1,2-Tetrachloroethane	#####	#####	0.96917	0.93657	0.84506	#####		
	#####	#####	0.87380	0.86428			0.89778	5.862
93 Chlorobenzene	#####	1.77612	1.50943	1.54786	1.69238	1.50634		
	1.45031	1.45315	#####	#####			1.56223	7.979
94 cis-1,4-dichloro-2-butene	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
95 Ethyl Benzene	#####	0.83751	0.76299	0.68517	0.79588	0.70560		
	0.68861	0.69193	#####	#####			0.73824	8.254
96 m,p-Xylene	#####	0.86231	0.73282	0.71670	0.78231	0.72015		
	0.71912	0.68600	#####	#####			0.74563	7.909
97 Bromobenzene	#####	#####	0.78884	0.72444	0.66782	#####		
	#####	#####	0.69852	0.69715			0.71535	6.390
98 trans-1,4-dichloro-2-butene	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
99 Decane	#####	#####	#####	#####	#####	#####		
	#####	#####	#####	#####			#####	#####
100 o-Xylene	#####	0.76050	0.65344	0.62985	0.75468	0.67956		
	0.67395	0.64624	#####	#####			0.68546	7.591

Eurofins Air Toxics Inc.

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Curve Type : Average

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	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
101 Styrene	+++++	1.12137	0.91031	0.91243	1.11467	1.02277		
	1.05805	1.01557	+++++	+++++			1.02217	8.405
102 Bromoform	1.11503	1.15423	1.09497	1.09420	1.34985	1.20735		
	1.19613	1.25792	+++++	+++++			1.18371	7.509
103 Cumene	+++++	2.09005	1.80658	1.80283	2.09485	1.89392		
	1.95890	1.91888	+++++	+++++			1.93800	6.178
104 Bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
105 1,2,3-Trichloropropane	+++++	+++++	0.43683	0.36355	0.35954	+++++		
	+++++	+++++	0.37697	0.36591			0.38056	8.438
107 2-Chlorotoluene	+++++	+++++	0.46243	0.40536	0.40386	+++++		
	+++++	+++++	0.43909	0.41208			0.42456	6.002
108 1,1,2,2-Tetrachloroethane	1.59448	1.63828	1.38665	1.28941	1.37781	1.21195		
	1.18904	1.21442	+++++	+++++			1.36276	12.731
109 4-Chlorotoluene	+++++	+++++	0.38571	0.34165	0.32573	+++++		
	+++++	+++++	0.35052	0.32748			0.34622	7.030
110 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
111 Propylbenzene	+++++	2.41502	1.65965	1.59322	1.83696	1.69647		
	1.73932	1.69591	+++++	+++++			1.80522	15.456

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Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
112 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
113 4-Ethyltoluene	+++++	1.71662	1.31907	1.25878	1.39664	1.28503		
	1.32622	1.27723	+++++	+++++			1.36851	11.689
114 1,3,5-Trimethylbenzene	1.92683	1.89227	1.49982	1.24129	1.41808	1.23236		
	1.19260	0.98245	+++++	+++++			1.42321	23.702
115 tert-Butylbenzene	+++++	+++++	1.09606	0.91731	0.89350	+++++		
	+++++	+++++	1.01603	0.88620			0.96182	9.490
116 p-Cymene	+++++	+++++	1.80892	1.30456	1.00403	+++++		
	+++++	+++++	1.25200	1.01605			1.27711	25.581
117 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
118 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
119 sec-Butylbenzene	+++++	+++++	1.60764	1.18542	1.12696	+++++		
	+++++	+++++	1.23768	1.11054			1.25365	16.286
120 1,2,4-Trimethylbenzene	1.71629	1.75570	1.34023	1.16423	1.26955	1.04702		
	0.97659	0.79714	+++++	+++++			1.25834	27.025
121 1,2,3-trimethylbenzene	+++++	+++++	0.74295	0.61143	0.46590	+++++		
	+++++	+++++	0.55392	0.47644			0.57013	19.898

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Integrator : HP RTE
Method file : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
122 1,3-Dichlorobenzene	1.36399	0.82514	0.85338	0.86867	0.98859	0.91032		
	0.91967	0.87962	+++++	+++++			0.95117	18.290
123 Butylbenzene	+++++	+++++	0.60164	0.51295	0.31674	+++++		
	+++++	+++++	0.43053	0.33373			0.43912	27.427
124 1,4-Dichlorobenzene	1.43537	1.51250	0.91704	0.86333	0.88467	0.80571		
	0.84202	0.80188	+++++	+++++			1.00781	28.868
125 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
126 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
127 alpha-chlorotoluene	+++++	+++++	0.99226	1.01947	1.27544	1.20767		
	1.26918	1.24914	+++++	+++++			1.16886	11.015
128 1,2-Dichlorobenzene	1.42545	1.13177	0.84889	0.87602	0.89006	0.82463		
	0.85779	0.80954	+++++	+++++			0.95802	22.381
129 1,2-dibromo-3-chloropropane	+++++	+++++	0.61698	0.56970	0.56845	+++++		
	+++++	+++++	0.59331	0.57660			0.58501	3.494
130 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
131 1,2,4-Trichlorobenzene	1.44218	0.98188	1.01547	0.97959	0.71144	0.64738		
	0.65037	0.51332	+++++	+++++			0.86770	34.387 <-

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Integrator : HP RTE
Method file : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
132 Hexachlorobutadiene	+++++	0.98848	0.66248	0.64604	0.49872	0.47866		
	0.54172	0.57472	+++++	+++++			0.62726	27.671
133 Naphthalene	+++++	+++++	+++++	1.88665	1.24650	1.15649		
	1.21161	1.00160	+++++	+++++			1.30057	26.201
204 Butyl Acetate	+++++	+++++	0.27119	0.27793	0.31297	+++++		
	+++++	+++++	0.29559	0.29298			0.29013	5.629
205 2-Heptanone	+++++	+++++	0.93908	0.81449	0.79716	+++++		
	+++++	+++++	0.81766	0.79115			0.83191	7.327
206 1-Butanol	+++++	+++++	0.31117	0.35929	0.72828	+++++		
	+++++	+++++	0.61915	0.70946			0.54547	36.123 <-
207 1-Methoxy-2-Propyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
209 Cyclohexanone	+++++	+++++	0.73749	0.75470	0.76379	+++++		
	+++++	+++++	0.70270	0.76253			0.74424	3.424
210 1-Propanol	+++++	+++++	0.19809	0.26731	0.41746	+++++		
	+++++	+++++	0.32446	0.36604			0.31467	27.121
211 Cyclopentene	+++++	+++++	2.79855	2.56383	2.54224	+++++		
	+++++	+++++	2.54054	2.56226			2.60148	4.255
212 Pentachloroethane	+++++	+++++	0.60888	0.60306	0.56464	+++++		
	+++++	+++++	0.57664	0.57972			0.58659	3.185

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Integrator : HP RTE
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Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	___ RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
213 Diisobutyl Ketone	+++++	+++++	2.14641	1.76812	1.08361	+++++		
	+++++	+++++	1.46845	1.18327			1.52997	28.489
214 Isobutanol	+++++	+++++	1.23818	1.34704	2.44603	+++++		
	+++++	+++++	1.49419	1.55670			1.61643	29.708
215 2,2-Dichloropropane	+++++	+++++	2.64968	2.71194	2.55664	+++++		
	+++++	+++++	2.58640	2.54422			2.60977	2.689
216 1,2-Dichlorotrifluoroethane	+++++	+++++	2.23514	2.14792	2.05459	+++++		
	+++++	+++++	2.14640	2.05872			2.12855	3.516
217 Freon 123	+++++	+++++	3.15559	3.25656	3.14820	+++++		
	+++++	+++++	3.25131	3.17752			3.19783	1.638
218 Freon 142b	+++++	+++++	2.65593	2.55956	2.42757	+++++		
	+++++	+++++	2.53981	2.46097			2.52877	3.541
$ 65 1,2-Dichloroethane-d4	1.51319	1.49873	1.55444	1.51671	1.53452	1.59522		
	1.56539	1.75989	+++++	+++++			1.56726	5.355
$ 80 Toluene-d8	0.93690	0.93590	0.93698	0.91928	0.95236	0.93554		
	0.93919	0.93339	+++++	+++++			0.93619	0.961
$ 106 Bromofluorobenzene	0.45313	0.43176	0.46169	0.46138	0.48032	0.47372		
	0.48997	0.49624	+++++	+++++			0.46853	4.478

Calibration History

Method : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Start Cal Date: 23-JAN-2015 16:43
End Cal Date : 27-JAN-2015 14:21

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 0.05000		
23-JAN-2015 16:43	SpRL	/chem/msdv.i/23Jan2015.b/v012306a.d
23-JAN-2015 16:43	Level05	/chem/msdv.i/23Jan2015.b/v012306.d

Cal Level: 6 , Cal Amount: 0.10000		
23-JAN-2015 17:30	Level#1	/chem/msdv.i/23Jan2015.b/v012307.d

Cal Level: 7 , Cal Amount: 0.50000		
27-JAN-2015 11:30	AT1crv	/chem/msdv.i/27Jan2015.b/v012705.d
23-JAN-2015 18:15	HiLoFULLcrv	/chem/msdv.i/23Jan2015.b/v012308.d

Cal Level: 8 , Cal Amount: 1.00000		
27-JAN-2015 12:09	AT1crv	/chem/msdv.i/27Jan2015.b/v012706.d
23-JAN-2015 19:01	HiLoFULLcrv	/chem/msdv.i/23Jan2015.b/v012309.d

Cal Level: 9 , Cal Amount: 5.00000		
27-JAN-2015 14:21	AT1crv	/chem/msdv.i/27Jan2015.b/v012709.d
23-JAN-2015 19:41	HiLoFULLcrv	/chem/msdv.i/23Jan2015.b/v012310.d

Cal Level: 10, Cal Amount: 10.00000		
23-JAN-2015 20:25	HiLoFULLcrv	/chem/msdv.i/23Jan2015.b/v012311.d

Cal Level: 11, Cal Amount: 20.00000		
23-JAN-2015 21:15	AT12	/chem/msdv.i/23Jan2015.b/v012312.d

Cal Level: 12, Cal Amount: 40.00000		
23-JAN-2015 22:26	HiLoFULLcrv	/chem/msdv.i/23Jan2015.b/v012313.d

Cal Level: 13, Cal Amount: 2.00000		
27-JAN-2015 12:52	AT1crv	/chem/msdv.i/27Jan2015.b/v012707.d

Cal Level: 16, Cal Amount: 4.00000		
27-JAN-2015 13:35	AT1crv	/chem/msdv.i/27Jan2015.b/v012708.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 9

Ccal Level: 9 , Ccal Amount: 5.000		
27-JAN-2015 06:33	AT12	/chem/msdv.i/27Jan2015.b/v012702.d

Ccal Level: 8 , Ccal Amount: 1.000		
27-JAN-2015 12:09	AT1CCV	/chem/msdv.i/27Jan2015.b/v012706a.d

Ccal Level: 9 , Ccal Amount: 5.000		
27-JAN-2015 14:21	AT1crv	/chem/msdv.i/27Jan2015.b/v012709.d

Curve Name: V15L0123B

Initial Calibration Narrative

An initial calibration curve was analyzed on 1/23/15 on MSD-V.

The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

ICAL: One (1) out; 1,2,4-Trichlorobenzene @ 34%.

ICV: Zero (0) out. Zero (0) out in AFCEE 4.0, DOD control limits, and in-house control limits.
File # V012403. Standard 2687-186; 10ppbv (50ppbv); 50mL load.

The reporting limit for alpha-Chlorotoluene has been raised from 0.1ppbv to 0.5ppbv for the duration of Q1 2015 due to poor peak quality at the normal reporting limit during Q4 2014.

Naphthalene was calibrated at 0.1ppbv, 0.5ppbv, 1.0ppbv, 2.0ppbv, and 4.0ppbv.

The following compounds were calibrated down to a special RL of 0.05ppbv:

Freon 11
Freon 113
1,1,1,-Trichloroethane
Carbon Tetrachloride
Trichloroethene
Bromodichloromethane
1,1,2-Trichloroethane
Tetrachloroethane
Dibromochloromethane
1,2-Dibromoethane
Bromoform
1,1,2,2-Tetrachloroethane
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Freon 114
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene

A five (5) point initial calibration for the AT-1 special was run on 1/27/15 at levels 0.5ppbv, 1.0ppbv, 2.0ppbv, 4.0ppbv, and 5.0ppbv. Zero (0) out. The 0.5ppbv and 1.0ppbv points for Freon 22 were dropped due to the absence of the tertiary ion.
An ICV for the AT-1 special (minus Freons) was run on 1/27/15. Two (2) out: Butyl Acetate @ 156%, 1-Butanol @ 55%.
File # V012721. Standard 2716-8; 1.0ppbv (5.0ppbv); 50mL load.

The 0.05ppbv ICAL point was requantified on 1/27/15 and now includes 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

MDL 2/14, 2/18, & 2/19/2014
AT1 MDL: 03/18/2014
Special RL MDL for Hexabutadiene and 1,2,4-Trichlorobenzene on 8/19/14

Eurofins Air Toxics Inc.

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Method file : /chem/msdv.i/27Jan2015.b/v1510123b.m
Cal Date : 28-Jan-2015 08:24 efinn
Curve Type : Average

Calibration File Names:
Level 5: /chem/msdv.i/23Jan2015.b/v012306a.d
Level 6: /chem/msdv.i/23Jan2015.b/v012307.d
Level 7: /chem/msdv.i/27Jan2015.b/v012705.d
Level 8: /chem/msdv.i/27Jan2015.b/v012706.d
Level 9: /chem/msdv.i/27Jan2015.b/v012709.d
Level 10: /chem/msdv.i/23Jan2015.b/v012311.d
Level 11: /chem/msdv.i/23Jan2015.b/v012312.d
Level 12: /chem/msdv.i/23Jan2015.b/v012313.d
Level 13: /chem/msdv.i/27Jan2015.b/v012707.d
Level 16: /chem/msdv.i/27Jan2015.b/v012708.d

if 1/28/15

Please see Calibration History page(s) for all the calibration files.

Compound	0.05000 Level 5	0.10000 Level 6	0.50000 Level 7	1.000 Level 8	5.000 Level 9	10.000 Level 10	RRF	% RSD
	20.000 Level 11	40.000 Level 12	2.000 Level 13	4.000 Level 16				
1 Freon 134a	+++++	+++++	1.05579	0.96197	0.95348	+++++		
	+++++	+++++	1.00837	0.94819			0.98556	4.659
208 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 Freon 152A	+++++	+++++	0.75156	0.63786	0.62506	+++++		
	+++++	+++++	0.67172	0.62622			0.66248	8.038
3 Propylene	+++++	+++++	2.14669	2.11709	2.22802	2.03575		
	1.85663	1.90263	+++++	+++++			2.04780	7.071
4 Dichlorodifluoromethane/Fr12	+++++	4.69575	3.89645	3.70258	4.36500	3.96986		
	3.61243	3.66094	+++++	+++++			3.98600	10.146
5 Freon 22	+++++	+++++	+++++	+++++	2.66601	+++++		
	+++++	+++++	2.82724	2.76524			2.75283	2.954

Eurofins Air Toxics, Inc. **MSD-V** **Logbook #2684**

BFB Verification of 176/174 m/z Ratio:	(512782/529833)x100 = 96.78
Tekmar Purge Flow:	—
Vacuum:	1/23/15

IS/S Std. #:	2687-266	Exp. Date:	4/9/15
BCM	LL: 253263	STM:	276969
1,4-DFB	1019789		1046528
CB-d5	833326		0634113

Verified CCV IS vs ICAL mid-point (-40%D): _____

File ID:	V012811
Compound:	Toluene-d8
Initials:	[illegible]

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = (954,158) x (5.000) = 4.996
(1019789) (0.93619)

SOP# (Circle one): 6 / 83 / 38 / 91 / 109 Method (Circle one): TO-14A/TO-15/TO-17 Reported Result: 4.996

Method Name: V15L0123A / V15S0123A

	Use	File	Lab ID#	Can#	Pressure	Amt. Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	V012801	BFB Tune check	2297-710	50 psig	2 mL	1.00	[illegible]	1/23/15	1324	[illegible]	
2	✓	02	ICAL Level 1	2716-9	0.003 ppbv	15 mL	1.00	[illegible]		1346	[illegible]	Exp. 4/6/15
3	✓	03	2		0.005 ppbv	25 mL	1.00	[illegible]		1424	GH	
4	✓	04	3		0.01 ppbv	50 mL	1.00	[illegible]		1506	GH	
5	✓	05	4		0.02 ppbv	100 mL	1.00	[illegible]		1549	GH	
6	✓	06	5		0.05 ppbv	250 mL	1.00	GH		1643	GH	
7	✓	07	6	2716-10	0.1 ppbv	25 mL	1.00	GH		1730	GH	
8	✓	08	7		0.5 ppbv	125 mL	1.00	GH		1815	GH	
9	✓	09	8		1.0 ppbv	250 mL	1.00	GH		1901	GH	
10	✓	10	9	2687-244	5.0 ppbv	25 mL	1.00	GH		1941	GH	
11	✓	11	10		10.0 ppbv	50 mL	1.00	GH		2025	GH	
12	✓	12	11		20.0 ppbv	100 mL	1.00	GH		2115	GH	
13	✓	13	12		40 ppbv	200 mL	1.00	GH		2226	GH	
14	X	14	System blank	34043	humid	250 mL	1.00	GH		2325	GH	

[signature] Reviewed 1/22/15 Date

Eurofins Air Toxics, Inc.

MSD-V

Logbook #2684

BFB Verification of 176/174 m/z Ratio:	544,874 / 566,058 x 100 = 96.26
Tekmar Purge Flow:	
Vacuum:	8r 1/24/15

IS/S Std. #:	2687-244	Exp. Date: 4/1/15
BCM	286,629 (Lu)	306,972 (SIM)
1,4-DFB	1,105,428	1,178,441
CB-d5	881,154	908,552

Verified CCV IS vs ICAL mid-point (-40%D): 8r

File ID:	V012402
Compound:	Tol-d8
Initials:	8r

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = $\frac{(1,033,629)}{(1,105,428)} \times \frac{(5.00)}{(0.9361)}$ = 4.994

SOP# (Circle one): 6 / 83 / 38 / 91 / 109

Method (Circle one): TO-14A/TO-15/TO-17

Method Name: V15L0123A / V15S0123A

Reported Result: 4.994

	Use	File	Lab ID#	Can#	Pressure	Amt. Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	V012401	BFB TUNE CHECK	2299-390	50mT	2.0ml	1.00	8r	1/24/15	0701	8r	
2	✓	02	CCV (50ppbv)	2687-244	5.0ppbv	25ml	1.00	8r		0725	8r	Exp: 4/6/15 1ppbT Lu 60ppbSIM
3	✓	03	ICV/LCS (50ppbv)	2687-186	10ppbv	50ml	1.00	8r		0804	8r	Exp: 3/19/15 Lu 8ppbT SIM 8ppbT
4	✓	04	LCSD (50ppbv)	↓	10ppbv	50ml	1.00	8r		0840	8r	↓ 1ppbT SIM 8ppbT
5	X	05	LAB BLANK	34034	1atm	25ml	1.00	8r		0933	8r	
6	✓	06	↓	↓	8r 1/24/15 5.3 ↓	↓	↓	8r		1026	8r	
7	✓	07	1501267-01AB	34746	5.3"Hg-5.1psi	25ml	1.64	8r		1121	8r	5.3"Hg-5psi
8	✓	08	-02AB	33537	4.7"Hg-5.1psi	25ml	1.60	8r		1227	8r	
9	✓	09	-03AB	33898	4.5"Hg-5psi	25ml	1.58	8r		1306	8r	
10	✓	10	-04AB	26038	3.9"Hg-5.1psi	25ml	1.55	8r		1345	8r	
11	✓	11	-05AB 8/24/15	1700	5.5"Hg-4.9psi	250ml	1.63	8r	gd/1/24	~~1508~~ 1427	gd/Ar	05AB
12	✓	12	-06AB	34754	4.1"Hg-4.9psi	250ml	1.58	gd		1508	gd/	
13	✓	13	-07AB	33585	4.1"Hg-5.1psi	250ml	1.56	gd		1602	gd/	
14	✓	14	-08AB	9948	4.5"Hg-5.2psi	250ml	1.59	gd		1641	gd/	

gd
Reviewed

1/24/15
Date

Eurofins Air Toxics, Inc. **MSD-V** **Logbook #2684**

BFB Verification of 176/174 m/z Ratio: (775510/808917) X100 = 95.87%	
Tekmar Purge Flow:	
Vacuum:	1/27/15 ACT

IS/S Std. #: 2687-2660		Exp. Date: 4/9/15	
BCM	LL: 2659762	SIM: 2745508	
1,4-DFB	10006128		10506538
CB-d5	792159		832728

Verified CCV IS vs ICAL mid-point (-40%D): ACT

File ID:	V012702
Compound:	Tol-d8
Initials:	ACT

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = (937324) x (5000) / (10006128) (0.93619) = 4.976

SOP# (Circle one): 6 / 83 / 38 / 91 / 109 Method (Circle one): TO-14A/TO-15/TO-17 Reported Result: 4.976

Method Name: V15L01234/V15S01234

	Use	File	Lab ID#	Can#	Pressure	Amt. Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	V012701	BFB Tune Check	2699-775	50ng	2.0ml	1.00	ACT	1/27/15	0611	ACT	
2	✓	02	CCV (50ppbv)	2687-244	5.0ppbv	25mL		ACT		0633	ACT	Exp 4/6/15 LL: 1004 SIM: Ø out
3	✓	03	LCS	2687-186				ACT		0719	ACT	Exp 3/9/15 Ø out
4	/	04	LCSD					ACT		0801	~~ET~~	
5	/	05	ICAL LEVEL 7	2716-22	0.5 ppbv	25mL	1.00	ET		1150	ET	Exp. 4/7/15 Ar. 1
6	/	06	8		1.0 ppbv	50mL	1.00	ET		1209	ET	
7	/	07	13		2.0 ppbv	100mL	1.00	ET		1252	ET	
8	/	08	16		4.0 ppbv	200mL	1.00	ET		1335	ET	
9	/	09	9		5.0 ppbv	250mL	1.00	ET		1421	ET	
10		10	LAB Blank	34034	Humid	250mL	1.00	ET				
11												
12												
13												
14												ET 1/27/15

Reviewed 1/27/15 Date

Eurofins Air Toxics, Inc. **MSD-V** **Logbook #2684**

	Use	File	Lab ID#	Can#	Pressure	Amt. Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
15	✓	V012715	1501251AB-01A	25247	6.0"Hg-5.0psi	250mL	1.68	MB	1/27/15	1947	MB	
16	✓	16	-02A	33382	5.5"Hg-5.0psi	250mL	1.64	MB		2022	MB	
17	✓	17	-03A	34235	5.0"Hg-5.0psi	250mL	1.61	MB		2057	MB	
18	✓	18	1501222AB-01A	4203	4.5"Hg-5.0psi	250mL	1.58	MB		2148	MB	
19	✓	19	-02A	34335	5.0"Hg-5.0psi	250mL	1.61	MB		2223	AT	
20	✓	20	-03A	5705	4.0"Hg-5.0psi	250mL	1.55	MB		2301	AT	
21	✓	21	1/28/15 AT ~~LCS~~ ICVsp	2746-8	1.0ppbv	50mL	1.00	AT	1/28/15	0610	AT	Exp 4/28/15 AT-1 Cout
22												
23												
24												1/28/15
25												AT
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												

Reviewed

1/28/15
Date

Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15 Low Level
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
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
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

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/24Jan2015.b/v012403.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 24-JAN-2015 08:04
Operator : sn Inst ID: msdv.i
Smp Info : 50mL #2687-186
Misc Info : 10ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/24Jan2015.b/v15l0123a.m
Meth Date : 24-Jan-2015 08:05 snguyen Quant Type: ISTD
Cal Date : 23-JAN-2015 20:25 Cal File: v012311.d
Als bottle: 1 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	255943	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	196875			48.09- 108.09	76.92
15.934	15.934 (1.000)	49	546906			196.04- 256.04	213.68
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	1024736	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	154990			0.00- 45.23	15.12
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	822638	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	445714			23.86- 83.86	54.18
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.756	16.756 (1.052)	65	382128	4.76315	4.763	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	212868			25.13- 85.13	55.71
$ 80 Toluene-d8						CAS #: 2037-26-5	
19.857	19.857 (1.147)	98	961123	5.00924	5.009	80.00- 120.00	100.00
19.857	19.857 (1.147)	70	101919			0.00- 40.74	10.60

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

$  80 Toluene-d8 (continued)
 19.857  19.857 (1.147)   100    625573                    36.73-  96.73    65.09
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    387141 5.02223    5.022  80.00- 120.00   100.00
 23.678  23.678 (1.066)    95    481073                    95.17- 155.17   124.26
 23.704  23.704 (1.067)   176    363641                    64.74- 124.74    93.93
-------------------------------------------------------------------------------
    3 Propylene                                     CAS #: 115-07-1
  4.674   4.674 (0.293)    41    956561 9.12539    9.125  80.00- 120.00   100.00
  4.674   4.674 (0.293)    42    660892                    37.91-  97.91    69.09
  4.674   4.674 (0.293)    39    681985                    38.58-  98.58    71.30
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.202   5.202 (0.326)    85   1956155 9.58722    9.587  80.00- 120.00   100.00
  5.202   5.202 (0.326)    87    622652                     1.73-  61.73    31.83
-------------------------------------------------------------------------------
    6 Freon 114                                     CAS #: 76-14-2
  6.713   6.713 (0.421)   135   1647741 9.60606    9.606  80.00- 120.00   100.00
  6.713   6.713 (0.421)   137    525386                     2.34-  62.34    31.89
  6.713   6.713 (0.421)    85   1877247                    93.53- 153.53   113.93
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.053   7.053 (0.443)    50   1203295 9.13608    9.136  80.00- 120.00   100.00
  7.053   7.053 (0.443)    52    387526                     1.57-  61.57    32.21
-------------------------------------------------------------------------------
    9 Butane                                        CAS #: 106-97-8
  7.854   7.854 (0.493)    58    224996 9.60896    9.609  80.00- 120.00   100.00
  7.854   7.854 (0.493)    43   2019252                   879.44- 939.44   897.46
-------------------------------------------------------------------------------
   10 Vinyl Chloride                                CAS #: 75-01-4
  8.009   8.009 (0.503)    62    984044 9.71914    9.719  80.00- 120.00   100.00
  8.009   8.009 (0.503)    64    288156                     0.00-  59.13    29.28
-------------------------------------------------------------------------------
   11 1,3-Butadiene                                 CAS #: 106-99-0
  8.257   8.257 (0.518)    54    918890 9.23526    9.235  80.00- 120.00   100.00
  8.257   8.257 (0.518)    39    916671                    70.79- 130.79    99.76
-------------------------------------------------------------------------------
   12 Bromomethane                                  CAS #: 74-83-9
  9.835   9.835 (0.617)    94    634546 10.0789   10.079  80.00- 120.00   100.00
  9.835   9.835 (0.617)    96    597367                    64.45- 124.45    94.14
-------------------------------------------------------------------------------
   17 Chloroethane                                  CAS #: 75-00-3
 10.340  10.340 (0.649)    64    448164 10.1843   10.184  80.00- 120.00   100.00
 10.340  10.340 (0.649)    66    133250                     0.00-  59.36    29.73
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	946664	9.75745	9.757	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	1540191			135.34- 195.34	162.70
10.533	10.533 (0.661)	42	1311314			110.64- 170.64	138.52
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.184	11.160 (0.702)	101	2023425	9.30379	9.304	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	1318171			34.40- 94.40	65.15
24 Ethanol					CAS #: 64-17-5		
12.102	12.102 (0.760)	45	535829	11.4583	11.458	80.00- 120.00	100.00
12.102	12.102 (0.760)	46	198804			9.93- 69.93	37.10
12.102	12.102 (0.760)	43	95140			0.00- 50.31	17.76
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.569	12.569 (0.789)	98	493315	9.43806	9.438	80.00- 120.00	100.00
12.569	12.569 (0.789)	61	1647387			316.34- 376.34	333.94
12.569	12.569 (0.789)	96	783875			133.12- 193.12	158.90
28 Freon 113					CAS #: 76-13-1		
12.569	12.569 (0.789)	151	1410370	9.06046	9.060	80.00- 120.00	100.00
12.569	12.569 (0.789)	153	896284			33.38- 93.38	63.55
12.569	12.569 (0.789)	101	1622334			85.19- 145.19	115.03
31 Acetone					CAS #: 67-64-1		
12.816	12.816 (0.804)	58	547029	9.25632	9.256	80.00- 120.00	100.00
12.816	12.816 (0.804)	43	1880958			326.03- 386.03	343.85
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	1805901	8.32901	8.329	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.365	13.365 (0.839)	76	309922	9.37911	9.379	80.00- 120.00	100.00
13.365	13.365 (0.839)	41	1491266			456.88- 516.88	481.17
34 2-Propanol					CAS #: 67-63-0		
13.173	13.173 (0.827)	45	2392849	10.2299	10.230	80.00- 120.00	100.00
13.173	13.173 (0.827)	43	421273			0.00- 47.97	17.61
13.173	13.173 (0.827)	59	79394			0.00- 33.25	3.32
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	667407	9.14544	9.145	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	1571654			198.57- 258.57	235.49
13.640	13.640 (0.856)	51	475032			41.48- 101.48	71.18
39 MTBE					CAS #: 1634-04-4		
13.997	13.997 (0.878)	73	2083426	9.13030	9.130	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
39 MTBE (continued)							
13.997	13.997 (0.878)	57	757608			6.35- 66.35	36.36
13.997	13.997 (0.878)	41	739664			5.74- 65.74	35.50
40 trans-1,2-Dichloroethene					CAS #: 156-60-5		
14.052	14.052 (0.882)	98	437961	8.14007	8.140	80.00- 120.00	100.00
14.052	14.052 (0.882)	61	1338586			272.66- 332.66	305.64
14.052	14.052 (0.882)	96	702964			128.53- 188.53	160.51
43 Hexane					CAS #: 110-54-3		
14.381	14.381 (0.903)	57	1911328	9.26119	9.261	80.00- 120.00	100.00
14.381	14.381 (0.903)	43	1374457			41.32- 101.32	71.91
14.381	14.381 (0.903)	86	192894			0.00- 40.13	10.09
46 1,1-Dichloroethane					CAS #: 75-34-3		
14.765	14.765 (0.927)	63	1779035	9.30197	9.302	80.00- 120.00	100.00
14.765	14.765 (0.927)	65	522924			0.00- 59.80	29.39
47 Vinyl Acetate					CAS #: 108-05-4		
14.793	14.793 (0.928)	86	198259	10.2882	10.288	80.00- 120.00	100.00
14.793	14.793 (0.928)	42	255466			166.91- 226.91	128.85
14.793	14.793 (0.928)	43	3574563			2680.08-2740.08	1802.98
50 cis-1,2-Dichloroethene					CAS #: 156-59-2		
15.592	15.592 (0.979)	98	597531	9.90983	9.910	80.00- 120.00	100.00
15.592	15.592 (0.979)	61	1673665			242.79- 302.79	280.10
15.592	15.592 (0.979)	96	951385			127.33- 187.33	159.22
51 2-Butanone					CAS #: 78-93-3		
15.572	15.572 (0.977)	72	379295	9.46749	9.467	80.00- 120.00	100.00
15.572	15.572 (0.977)	43	2651379			687.17- 747.17	699.03
15.572	15.572 (0.977)	57	186071			23.39- 83.39	49.06
53 Tetrahydrofuran					CAS #: 109-99-9		
15.934	15.934 (1.000)	42	1564026	8.94556	8.946	80.00- 120.00	100.00
15.934	15.934 (1.000)	71	337469			0.00- 51.83	21.58
15.934	15.934 (1.000)	72	363969			0.00- 54.16	23.27
55 Chloroform					CAS #: 67-66-3		
15.995	15.995 (1.004)	83	1623407	9.10472	9.105	80.00- 120.00	100.00
15.995	15.995 (1.004)	85	1038367			35.10- 95.10	63.96
57 Cyclohexane					CAS #: 110-82-7		
16.242	16.242 (1.019)	84	1107411	9.13915	9.139	80.00- 120.00	100.00
16.242	16.242 (1.019)	56	2102838			160.85- 220.85	189.89
16.242	16.242 (1.019)	41	1166379			75.49- 135.49	105.32

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

   58 1,1,1-Trichloroethane                        CAS #: 71-55-6
 16.242  16.242 (1.019)    97   1759747 8.85804    8.858  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99   1106337                   33.24-  93.24    62.87
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                         CAS #: 56-23-5
 16.458  16.458 (1.033)   119   1717321 9.47044    9.470  80.00- 120.00   100.00
 16.458  16.458 (1.033)   117   1673690                   67.96- 127.96    97.46
                   Sum of Peak Concentrations =    9.470
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                       CAS #: 540-84-1
 16.728  16.728 (1.050)    56   1974417 9.02646    9.026  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57   5969086                  274.66- 334.66   302.32
 16.728  16.728 (1.050)    41   1573531                   54.64- 114.64    79.70
-------------------------------------------------------------------------------
   64 Benzene                                      CAS #: 71-43-2
 16.756  16.756 (0.968)    78   2251048 8.84852    8.848  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77    514196                    0.00-  53.39    22.84
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                           CAS #: 107-06-2
 16.865  16.866 (0.975)    62   1371836 9.05981    9.060  80.00- 120.00   100.00
 16.865  16.866 (0.975)    64    406670                    0.00-  59.72    29.64
-------------------------------------------------------------------------------
   69 Heptane                                      CAS #: 142-82-5
 16.975  16.948 (0.981)    57   1123775 9.33003    9.330  80.00- 120.00   100.00
 16.975  16.975 (0.981)   100    246577                    0.00-  51.16    21.94
 16.948  16.948 (0.979)    43   2399314                  180.62- 240.62   213.50
-------------------------------------------------------------------------------
   72 Trichloroethene                              CAS #: 79-01-6
 17.717  17.717 (1.024)   130   1222748 9.41768    9.418  80.00- 120.00   100.00
 17.717  17.717 (1.024)    95   1130497                   62.98- 122.98    92.46
 17.717  17.717 (1.024)    97    728787                   29.44-  89.44    59.60
-------------------------------------------------------------------------------
   73 Methylcyclohexane                            CAS #: 108-87-2
 17.964  17.964 (1.038)    83   1499874 9.40853    9.408  80.00- 120.00   100.00
 17.964  17.964 (1.038)    98    703621                   16.83-  76.83    46.91
 17.964  17.964 (1.038)    55   1886636                   97.27- 157.27   125.79
-------------------------------------------------------------------------------
   74 1,2-Dichloropropane                          CAS #: 78-87-5
 18.156  18.156 (1.049)    63   1174357 9.40596    9.406  80.00- 120.00   100.00
 18.156  18.156 (1.049)    62    859650                   43.06- 103.06    73.20
 18.156  18.156 (1.049)    41    767152                   36.58-  96.58    65.33
-------------------------------------------------------------------------------
   75 1,4-Dioxane                                  CAS #: 123-91-1
 18.266  18.266 (1.056)    88    601545 8.27386    8.274  80.00- 120.00   100.00
 18.266  18.266 (1.056)    58    617410                   74.73- 134.73   102.64
 18.266  18.266 (1.056)    57    198511                    4.83-  64.83    33.00
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	1773598	9.42148	9.421	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	1140070			33.73- 93.73	64.28
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	1407399	9.02282	9.023	80.00- 120.00	100.00
19.386	19.386 (1.120)	77	449042			0.66- 60.66	31.91
19.386	19.386 (1.120)	39	1045885			43.67- 103.67	74.31
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	3272948	9.19470	9.195	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	1105642			3.17- 63.17	33.78
19.588	19.588 (1.132)	85	328119			0.00- 40.09	10.03
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	2658754	9.17194	9.172	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	1569150			28.34- 88.34	59.02
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	1288899	9.19540	9.195	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	400004			1.98- 61.98	31.03
20.399	20.399 (0.919)	39	926812			41.22- 101.22	71.91
84 1,1,2-Trichloroethane					CAS #: 79-00-5		
20.758	20.722 (0.935)	97	1054133	9.41451	9.414	80.00- 120.00	100.00
20.758	20.722 (0.935)	99	648937			31.80- 91.80	61.56
20.722	20.722 (0.933)	83	872066			51.12- 111.12	82.73
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	1518460	9.00895	9.009	80.00- 120.00	100.00
20.901	20.901 (0.941)	129	1179754			46.61- 106.61	77.69
20.901	20.901 (0.941)	131	1167681			46.38- 106.38	76.90
87 2-Hexanone					CAS #: 591-78-6		
21.009	21.045 (0.946)	58	1382216	9.46802	9.468	80.00- 120.00	100.00
21.009	21.045 (0.946)	43	2947464			184.27- 244.27	213.24
21.045	21.045 (0.948)	100	196876			0.00- 44.17	14.24
89 Dibromochloromethane					CAS #: 124-48-1		
21.367	21.367 (0.962)	129	2105044	9.66992	9.670	80.00- 120.00	100.00
21.367	21.367 (0.962)	127	1631621			48.71- 108.71	77.51
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.583	21.583 (0.972)	107	1820796	9.73686	9.737	80.00- 120.00	100.00
21.583	21.583 (0.972)	109	1679410			63.80- 123.80	92.23

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	2311523	8.99321	8.993	80.00- 120.00	100.00
22.233	22.233 (1.001)	114	728363			1.75- 61.75	31.51
22.233	22.233 (1.001)	77	1258509			24.73- 84.73	54.45
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	1064148	8.76125	8.761	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	3080349			260.31- 320.31	289.47
96 m,p-Xylene					CAS #: 108-38-3		
22.452	22.452 (1.011)	106	1030741	8.40210	8.402	80.00- 120.00	100.00
22.452	22.452 (1.011)	91	1973030			157.23- 217.23	191.42
100 o-Xylene					CAS #: 95-47-6		
23.002	23.002 (1.036)	106	1037859	9.20273	9.203	80.00- 120.00	100.00
23.002	23.002 (1.036)	91	2000511			167.76- 227.76	192.75
101 Styrene					CAS #: 100-42-5		
23.029	23.029 (1.037)	104	1531942	9.10925	9.109	80.00- 120.00	100.00
23.029	23.029 (1.037)	78	725680			17.96- 77.96	47.37
102 Bromoform					CAS #: 75-25-2		
23.331	23.331 (1.051)	173	1899320	9.75245	9.752	80.00- 120.00	100.00
23.331	23.331 (1.051)	171	988130			22.04- 82.04	52.03
103 Cumene					CAS #: 98-82-8		
23.441	23.413 (1.056)	105	2828728	8.87153	8.872	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	843144			0.00- 59.93	29.81
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	1922078	8.57264	8.573	80.00- 120.00	100.00
23.833	23.833 (1.073)	85	1249252			34.94- 94.94	64.99
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	2469842	8.31572	8.316	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	676687			0.00- 56.93	27.40
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	1868796	8.29992	8.300	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	635460			3.10- 63.10	34.00
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	1806335	8.12490	8.125	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	937706			21.49- 81.49	51.91
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	1572651	8.01274	8.013	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
120 1,2,4-Trimethylbenzene (continued)							
24.529	24.529 (1.105)	120	776332			19.48- 79.48	49.36
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	1324732	8.46505	8.465	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	833105			32.42- 92.42	62.89
24.902	24.902 (1.121)	111	517741			8.90- 68.90	39.08
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	1165836	7.03102	7.031	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	738329			34.01- 94.01	63.33
24.992	24.992 (1.125)	111	444476			8.58- 68.58	38.13
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.127	25.127 (1.132)	91	1879190	9.77169	9.772	80.00- 120.00	100.00
25.127	25.127 (1.132)	126	441947			0.00- 54.03	23.52
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	1215508	7.71161	7.712	80.00- 120.00	100.00
25.396	25.396 (1.144)	148	755232			32.53- 92.53	62.13
25.396	25.396 (1.144)	111	499385			10.66- 70.66	41.08
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	1065269	7.46191	7.462	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	1024228			66.06- 126.06	96.15
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.167	27.167 (1.223)	225	723505	7.01061	7.011	80.00- 120.00	100.00
27.167	27.167 (1.223)	223	469705			32.60- 92.60	64.92
133 Naphthalene					CAS #: 91-20-3		
27.368	27.368 (1.232)	128	155503	0.72672	0.7267	80.00- 120.00	100.00
27.368	27.368 (1.232)	127	18326			0.00- 44.62	11.78

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012403.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: sn
Method File: /chem/msdv.i/24Jan2015.b/v15l0123a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 24-JAN-2015
Calibration Time: 07:25
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	286629	171977	401281	255943	-10.71
71 1,4-Difluorobenze	1105428	663257	1547599	1024736	-7.30
92 Chlorobenzene-d5	881154	528692	1233616	822638	-6.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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: 24-Jan-2015 08:43

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 24Jan2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: ICV
Level: LOW
Operator: sn
Data Type: MS DATA
SampleType: ICV
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdv.i/24Jan2015.b/v15l0123a.m
Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	10.000	9.587	95.87	70-130
3 Propylene	10.000	9.125	91.25	60-140
6 Freon 114	10.000	9.606	96.06	70-130
8 Chloromethane	10.000	9.136	91.36	70-130
10 Vinyl Chloride	10.000	9.719	97.19	70-130
11 1,3-Butadiene	10.000	9.235	92.35	70-130
12 Bromomethane	10.000	10.079	100.79	70-130
17 Chloroethane	10.000	10.184	101.84	70-130
20 Trichlorofluoromet	10.000	9.304	93.04	70-130
24 Ethanol	10.000	11.458	114.58	70-130
28 Freon 113	10.000	9.060	90.60	70-130
30 1,1-Dichloroethene	10.000	9.438	94.38	70-130
31 Acetone	10.000	9.256	92.56	70-130
33 Carbon Disulfide	10.000	8.329	83.29	70-130
34 2-Propanol	10.000	10.230	102.30	70-130
35 3-Chloroprene	10.000	9.379	93.79	70-130
37 Methylene Chloride	10.000	9.145	91.45	70-130
39 MTBE	10.000	9.130	91.30	70-130
40 trans-1,2-Dichloro	10.000	8.140	81.40	70-130
43 Hexane	10.000	9.261	92.61	70-130
46 1,1-Dichloroethane	10.000	9.302	93.02	70-130
47 Vinyl Acetate	10.000	10.288	102.88	60-140
50 cis-1,2-Dichloroet	10.000	9.910	99.10	70-130
51 2-Butanone	10.000	9.467	94.67	70-130
53 Tetrahydrofuran	10.000	8.946	89.46	70-130
55 Chloroform	10.000	9.105	91.05	70-130
57 Cyclohexane	10.000	9.139	91.39	70-130
58 1,1,1-Trichloroeth	10.000	8.858	88.58	70-130
59 Carbon Tetrachlori	10.000	9.470	94.70	70-130
63 2,2,4-Trimethylpen	10.000	9.026	90.26	70-130
64 Benzene	10.000	8.848	88.49	70-130
69 Heptane	10.000	9.330	93.30	70-130
68 1,2-Dichloroethane	10.000	9.060	90.60	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
72 Trichloroethene	10.000	9.418	94.18	70-130
74 1,2-Dichloropropan	10.000	9.406	94.06	70-130
75 1,4-Dioxane	10.000	8.274	82.74	70-130
77 Bromodichlorometha	10.000	9.421	94.21	70-130
78 cis-1,3-Dichloropr	10.000	9.023	90.23	70-130
79 4-Methyl-2-pentano	10.000	9.195	91.95	70-130
81 Toluene	10.000	9.172	91.72	70-130
82 trans-1,3-Dichloro	10.000	9.195	91.95	70-130
84 1,1,2-Trichloroeth	10.000	9.414	94.15	70-130
87 2-Hexanone	10.000	9.468	94.68	70-130
86 Tetrachloroethene	10.000	9.009	90.09	70-130
89 Dibromochlorometha	10.000	9.670	96.70	70-130
90 1,2-Dibromoethane	10.000	9.737	97.37	70-130
93 Chlorobenzene	10.000	8.993	89.93	70-130
95 Ethyl Benzene	10.000	8.761	87.61	70-130
96 m,p-Xylene	10.000	8.402	84.02	70-130
100 o-Xylene	10.000	9.203	92.03	70-130
101 Styrene	10.000	9.109	91.09	70-130
102 Bromoform	10.000	9.752	97.52	70-130
103 Cumene	10.000	8.872	88.72	70-130
108 1,1,2,2-Tetrachlor	10.000	8.573	85.73	70-130
111 Propylbenzene	10.000	8.316	83.16	70-130
113 4-Ethyltoluene	10.000	8.300	83.00	70-130
114 1,3,5-Trimethylben	10.000	8.125	81.25	70-130
120 1,2,4-Trimethylben	10.000	8.013	80.13	70-130
122 1,3-Dichlorobenzen	10.000	8.465	84.65	70-130
124 1,4-Dichlorobenzen	10.000	7.031	70.31	70-130
127 alpha-chlorotoluen	10.000	9.772	97.72	70-130
128 1,2-Dichlorobenzen	10.000	7.712	77.12	70-130
131 1,2,4-Trichloroben	10.000	7.462	74.62	70-130
132 Hexachlorobutadien	10.000	7.011	70.11	70-130
133 Naphthalene	1.000	0.7267	72.67	60-140
18 Isopentane	10.000	9.757	97.57	60-140
9 Butane	10.000	9.609	96.09	60-140
73 Methylcyclohexane	10.000	9.408	94.09	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	4.763	95.26	70-130
$ 80 Toluene-d8	5.000	5.009	100.18	70-130
$ 106 Bromofluorobenzene	5.000	5.022	100.44	70-130

Data File: /chem/msdv.i/24Jan2015.b/v012403.d

Date : 24-JAN-2015 08:04

Client ID: ICV

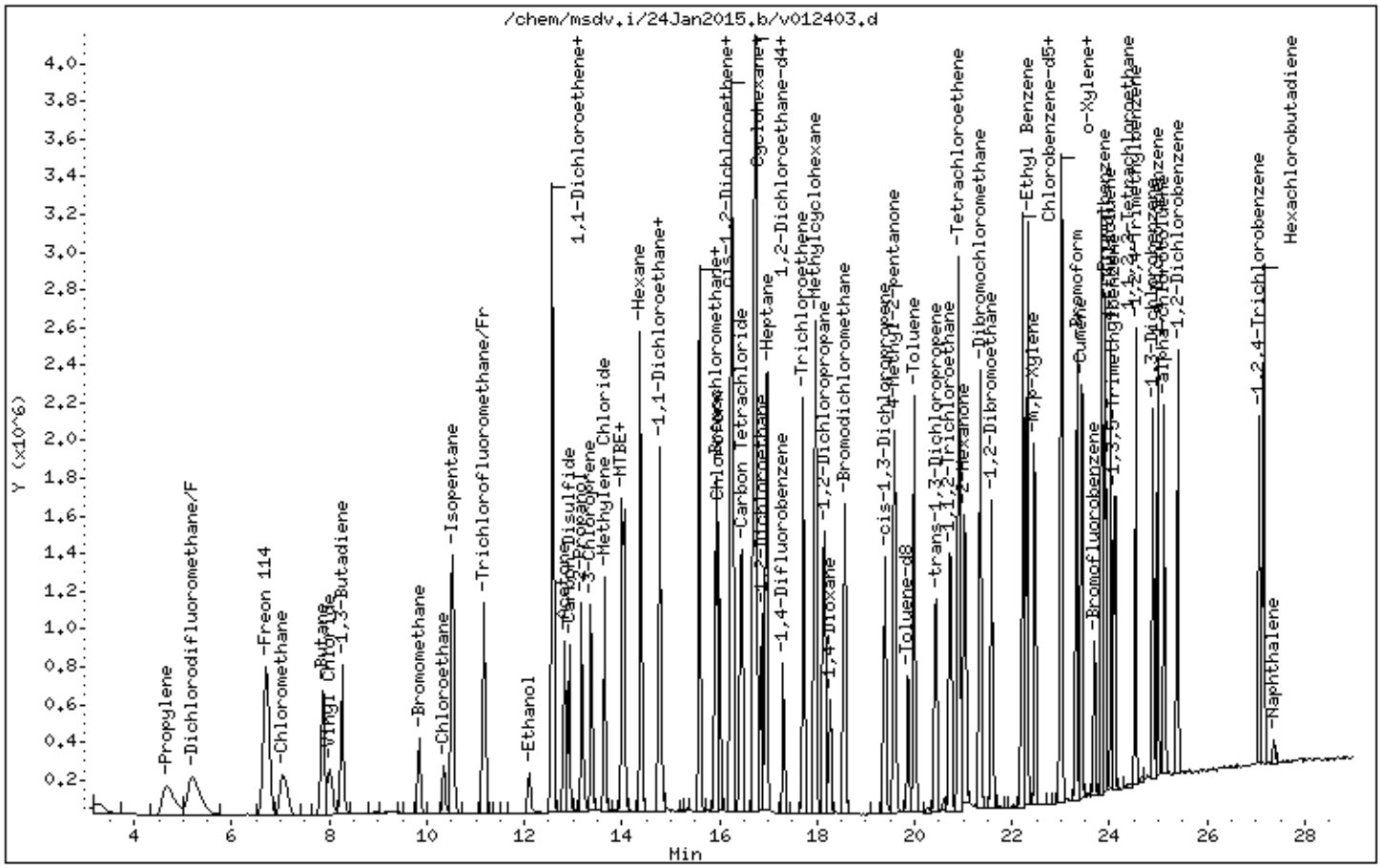
Instrument: msdv.i

Sample Info: 50mL #2687-186

Operator: sn

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/27Jan2015.b/v012721.d
Lab Smp Id: ICV Client Smp ID: LCS
Inj Date : 28-JAN-2015 06:10
Operator : act Inst ID: msdv.i
Smp Info : 50mL #2716-8
Misc Info : 1.0ppbv (5.0ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Meth Date : 28-Jan-2015 08:24 efinn Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1CCV.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.934	15.934 (1.000)	130	237350	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	182288			0.00- 30.00	76.80
15.934	15.934 (1.000)	49	514051			0.00- 30.00	216.58
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	968057	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	145531			0.00- 30.00	15.03
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	743628	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	427960			0.00- 30.00	57.55
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	346278	4.65441	4.654	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	168058			25.13- 85.13	48.53
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.857	19.856 (1.147)	98	882199	4.86711	4.867	80.00- 120.00	100.00
19.857	19.856 (1.147)	70	98603			0.00- 40.74	11.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)							
19.857	19.856 (1.147)	100	582422			36.73- 96.73	66.02
$ 106 Bromofluorobenzene					CAS #: 460-00-4		
23.678	23.704 (1.066)	174	328874	4.71966	4.720	80.00- 120.00	100.00
23.678	23.704 (1.066)	95	433622			95.17- 155.17	131.85
23.678	23.704 (1.066)	176	331223			64.74- 124.74	100.71
211 Cyclopentene					CAS #: 142-29-0		
13.420	13.420 (0.842)	67	129534	1.04892	1.049	80.00- 120.00	100.00
13.420	13.420 (0.842)	68	46509			0.00- 30.00	35.91
13.420	13.420 (0.842)	53	42376			0.00- 30.00	32.71
210 1-Propanol					CAS #: 71-23-8		
14.903	14.903 (0.935)	59	15633	1.04656	1.046	80.00- 120.00	100.00
14.903	14.903 (0.935)	42	12842			0.00- 30.00	82.15
14.903	14.903 (0.935)	41	7503			0.00- 30.00	47.99
215 2,2-Dichloropropane					CAS #: 594-20-7		
15.551	15.551 (0.976)	77	117969	0.95224	0.9522	80.00- 120.00	100.00
15.551	15.551 (0.976)	79	40007			0.00- 30.00	33.91
15.551	15.551 (0.976)	97	25923			0.00- 30.00	21.98
56 1,1-Dicholoropropene					CAS #: 563-58-6		
16.458	16.458 (1.033)	110	42170	1.00210	1.002	80.00- 120.00	100.00
16.458	16.458 (1.033)	75	108977			0.00- 30.00	258.42
214 Isobutanol					CAS #: 78-83-1		
16.519	16.519 (1.037)	41	71060	0.92608	0.9261	80.00- 120.00	100.00
16.519	16.519 (1.037)	43	94980			0.00- 30.00	133.66
16.458	16.519 (1.033)	39	119495			0.00- 30.00	168.16
206 1-Butanol					CAS #: 71-36-3		
17.497	17.470 (1.011)	56	58115	0.55028	0.5503	80.00- 120.00	100.00(R)
17.470	17.470 (1.010)	41	46471			0.00- 30.00	79.96
17.497	17.470 (1.011)	43	42308			0.00- 30.00	72.80
83 1,3-Dichloropropane					CAS #: 142-28-9		
21.045	21.045 (1.216)	76	117689	0.94019	0.9402	80.00- 120.00	100.00
21.045	21.045 (1.216)	41	124735			0.00- 30.00	105.99
21.045	21.045 (1.216)	78	40662			0.00- 30.00	34.55
204 Butyl Acetate					CAS #: 123-86-4		
21.152	21.152 (1.222)	56	87477	1.55728	1.557	80.00- 120.00	100.00(R)
21.152	21.152 (1.222)	73	19893			0.00- 30.00	22.74
21.152	21.152 (1.222)	43	207674			0.00- 30.00	237.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
91 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
22.343	22.343 (1.006)	131	129060	0.96658	0.9666	80.00- 120.00	100.00
22.343	22.343 (1.006)	117	96041			0.00- 30.00	74.42
22.315	22.343 (1.005)	95	46025			0.00- 30.00	35.66
205 2-Heptanone					CAS #: 110-43-0		
23.111	23.111 (1.041)	58	131889	1.06598	1.066	80.00- 120.00	100.00
23.111	23.111 (1.041)	43	236548			0.00- 30.00	179.35
209 Cyclohexanone					CAS #: 108-94-1		
23.652	23.652 (1.065)	55	143278	1.29443	1.294	80.00- 120.00	100.00
23.652	23.652 (1.065)	98	38113			0.00- 30.00	26.60
23.652	23.652 (1.065)	42	92830			0.00- 30.00	64.79
97 Bromobenzene					CAS #: 108-86-1		
23.884	23.884 (1.076)	156	105801	0.99445	0.9944	80.00- 120.00	100.00
23.884	23.884 (1.076)	158	99225			0.00- 30.00	93.78
23.884	23.884 (1.076)	77	188787			0.00- 30.00	178.44
105 1,2,3-Trichloropropane					CAS #: 96-18-4		
23.910	23.910 (1.077)	110	54443	0.96191	0.9619	80.00- 120.00	100.00
23.910	23.910 (1.077)	75	148374			0.00- 30.00	272.53
23.910	23.910 (1.077)	61	49230			0.00- 30.00	90.42
107 2-Chlorotoluene					CAS #: 95-49-8		
24.065	24.065 (1.084)	126	65044	1.03010	1.030	80.00- 120.00	100.00
24.065	24.065 (1.084)	91	158129			0.00- 30.00	243.11
24.065	24.065 (1.084)	65	19074			0.00- 30.00	29.32
109 4-Chlorotoluene					CAS #: 106-43-4		
24.194	24.194 (1.090)	126	46858	0.91002	0.9100	80.00- 120.00	100.00
24.194	24.194 (1.090)	91	139440			0.00- 30.00	297.58
24.194	24.194 (1.090)	63	20283			0.00- 30.00	43.29
213 Diisobutyl Ketone					CAS #: 108-83-8		
24.220	24.220 (1.091)	57	268848	1.18151	1.182	80.00- 120.00	100.00
24.220	24.220 (1.091)	85	146506			0.00- 30.00	54.49
115 tert-Butylbenzene					CAS #: 98-06-6		
24.477	24.478 (1.102)	119	149126	1.04250	1.042	80.00- 120.00	100.00
24.477	24.478 (1.102)	134	39459			0.00- 30.00	26.46
24.452	24.478 (1.101)	91	87024			0.00- 30.00	58.36
212 Pentachloroethane					CAS #: 76-01-7		
24.555	24.555 (1.106)	167	81006	0.92854	0.9285	80.00- 120.00	100.00
24.555	24.555 (1.106)	117	79257			0.00- 30.00	97.84

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
212 Pentachloroethane (continued)							
24.555	24.555 (1.106)	169	37471			0.00- 30.00	46.26
119 sec-Butylbenzene					CAS #: 135-98-8		
24.710	24.710 (1.113)	105	197291	1.05815	1.058	80.00- 120.00	100.00
24.710	24.710 (1.113)	134	43658			0.00- 30.00	22.13
24.710	24.710 (1.113)	91	28735			0.00- 30.00	14.57
116 p-Cymene					CAS #: 99-87-6		
24.835	24.835 (1.118)	119	209822	1.10468	1.105	80.00- 120.00	100.00
24.835	24.835 (1.118)	134	60586			0.00- 30.00	28.88
24.835	24.835 (1.118)	91	50393			0.00- 30.00	24.02
121 1,2,3-trimethylbenzene					CAS #: 526-73-8		
24.992	24.992 (1.125)	120	90771	1.07050	1.070	80.00- 120.00	100.00
24.992	24.992 (1.125)	105	194667			0.00- 30.00	214.46
24.992	24.992 (1.125)	77	26809			0.00- 30.00	29.54
123 Butylbenzene					CAS #: 104-51-8		
25.261	25.261 (1.138)	134	69634	1.06623	1.066	80.00- 120.00	100.00
25.261	25.261 (1.138)	91	240075			0.00- 30.00	344.77
25.261	25.261 (1.138)	92	126563			0.00- 30.00	181.75
129 1,2-dibromo-3-chloropropane					CAS #: 96-12-8		
26.203	26.203 (1.180)	157	69783	0.80205	0.8020	80.00- 120.00	100.00
26.203	26.203 (1.180)	75	63399			0.00- 30.00	90.85
26.203	26.203 (1.180)	155	55985			0.00- 30.00	80.23

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012721.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: act
Method File: /chem/msdv.i/27Jan2015.b/v15l0123b.m
Misc Info: 1.0ppbv (5.0ppbv)

Calibration Date: 27-JAN-2015
Calibration Time: 06:33
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	265976	159586	372366	237350	-10.76
71 1,4-Difluorobenze	1006128	603677	1408579	968057	-3.78
92 Chlorobenzene-d5	792159	475295	1109023	743628	-6.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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.

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 28Jan2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: LCS
Level: LOW
Operator: act
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT-1.spk
Quant Type: ISTD
Sublist File: AT1CCV.sub
Method File: /chem/msdv.i/27Jan2015.b/v15l0123b.m
Misc Info: 1.0ppbv (5.0ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
56 1,1-Dicholoroprope	1.000	1.002	100.21	60-140
83 1,3-Dichloropropan	1.000	0.9402	94.02	60-140
91 1,1,1,2-Tetrachlor	1.000	0.9666	96.66	60-140
97 Bromobenzene	1.000	0.9944	99.45	60-140
105 1,2,3-Trichloropro	1.000	0.9619	96.19	60-140
107 2-Chlorotoluene	1.000	1.030	103.01	60-140
109 4-Chlorotoluene	1.000	0.9100	91.00	60-140
115 tert-Butylbenzene	1.000	1.042	104.25	60-140
116 p-Cymene	1.000	1.105	110.47	60-140
119 sec-Butylbenzene	1.000	1.058	105.81	60-140
121 1,2,3-trimethylben	1.000	1.070	107.05	60-140
123 Butylbenzene	1.000	1.066	106.62	60-140
129 1,2-dibromo-3-chlo	1.000	0.8020	80.20	60-140
204 Butyl Acetate	1.000	1.557	155.73*	60-140
205 2-Heptanone	1.000	1.066	106.60	60-140
206 1-Butanol	1.000	0.5503	55.03*	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	4.654	93.09	70-130
$ 80 Toluene-d8	5.000	4.867	97.34	70-130
$ 106 Bromofluorobenzene	5.000	4.720	94.39	70-130

Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

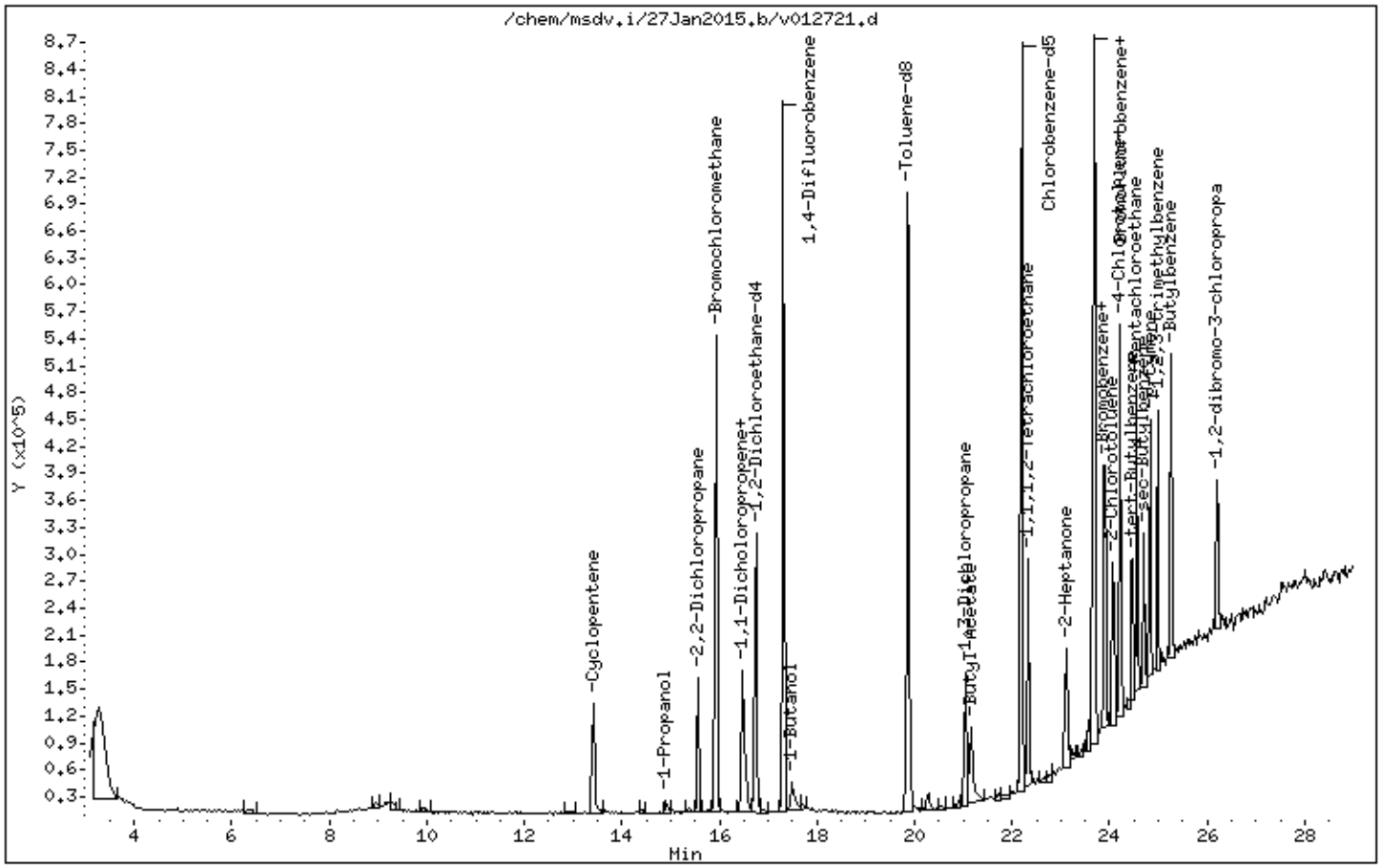
Instrument: msdv.i

Sample Info: 50mL #2716-8

Operator: act

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

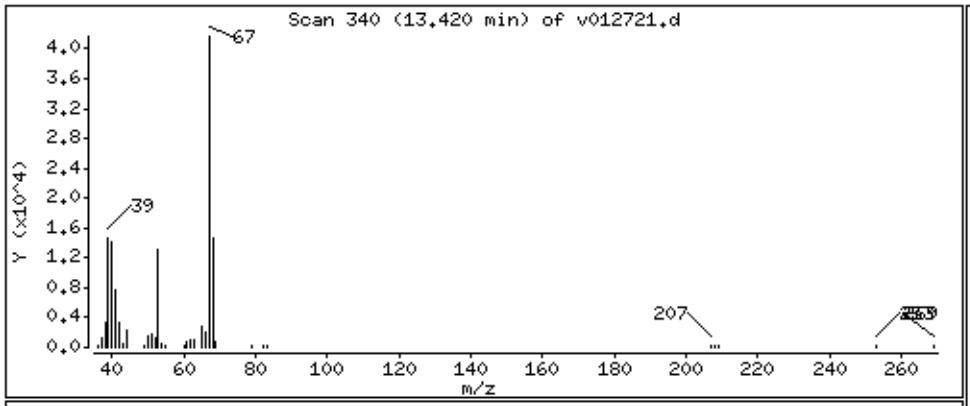
Operator: act

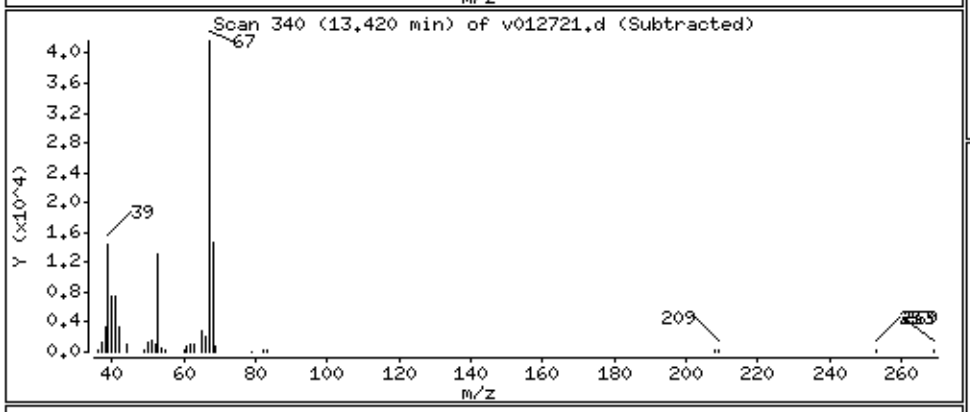
Column phase: RTx-624

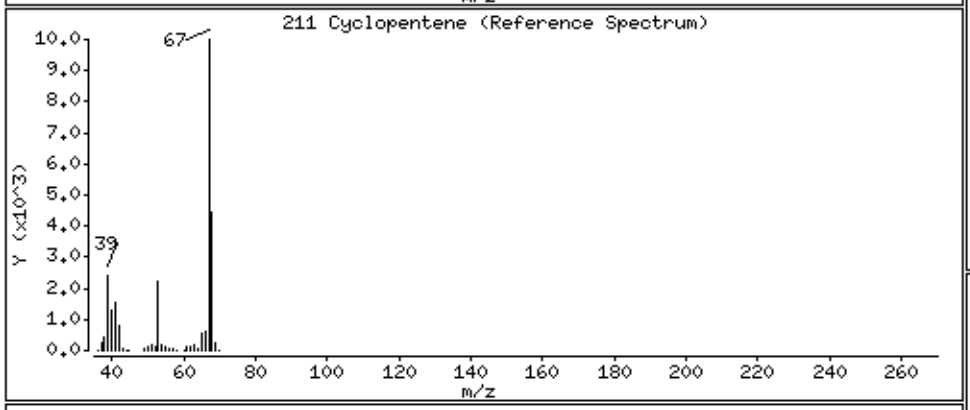
Column diameter: 0.32

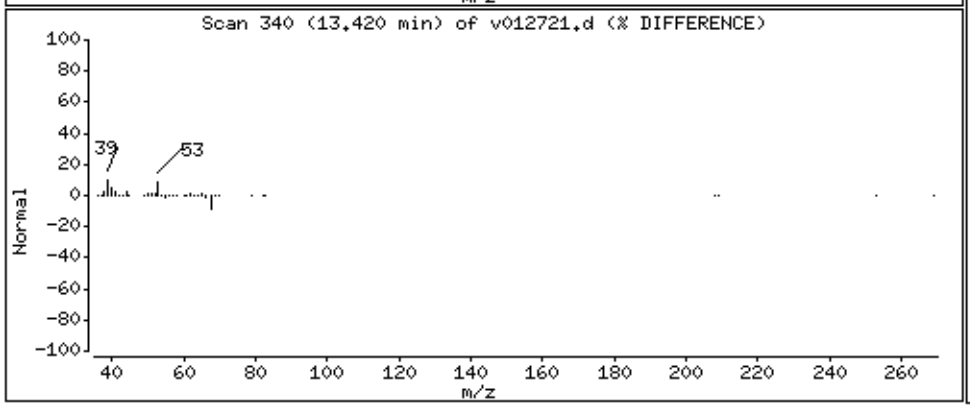
211 Cyclopentene

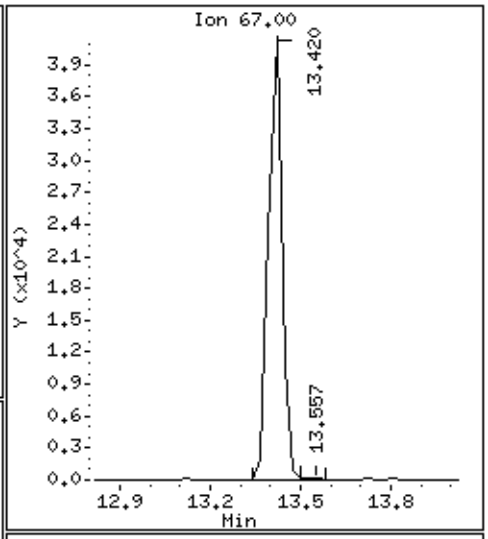
Concentration: 1.049 PPBV

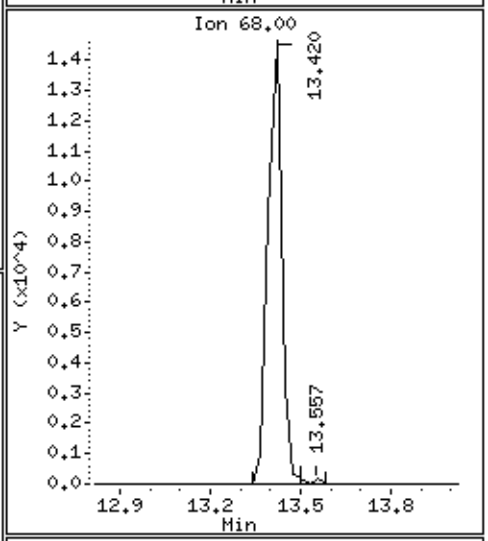


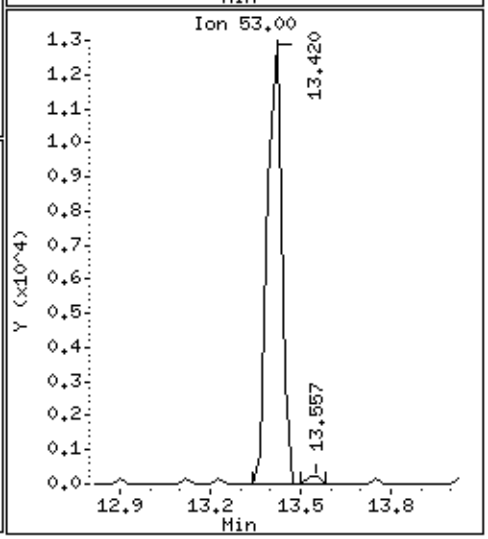












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

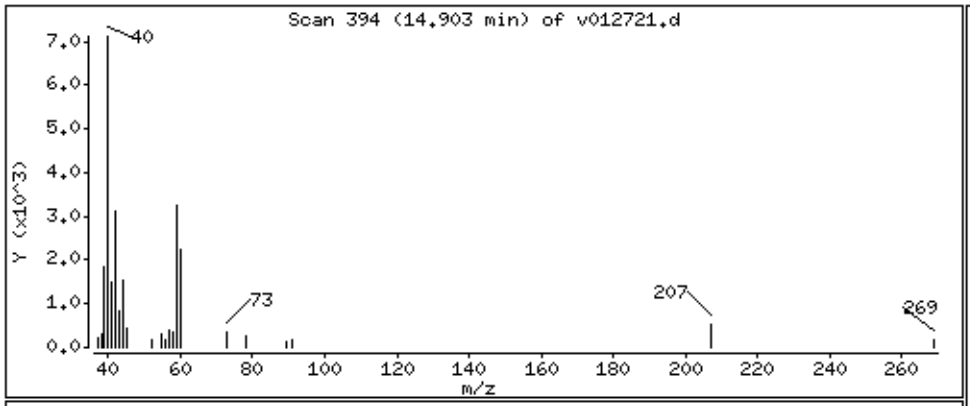
Operator: act

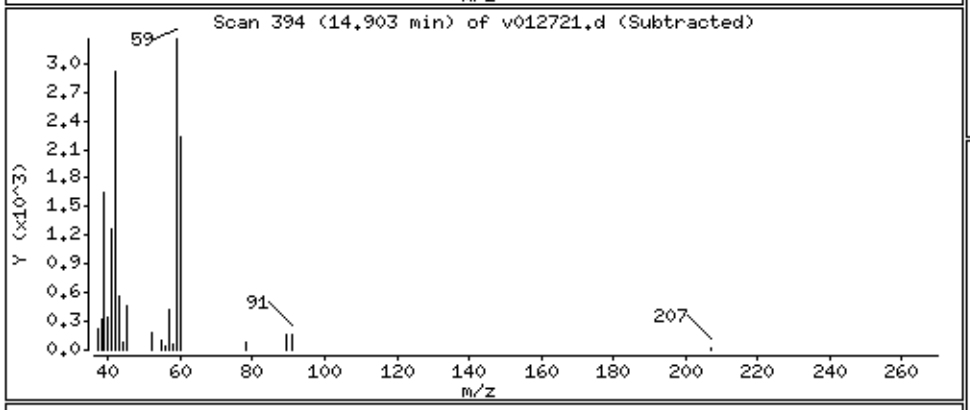
Column phase: RTx-624

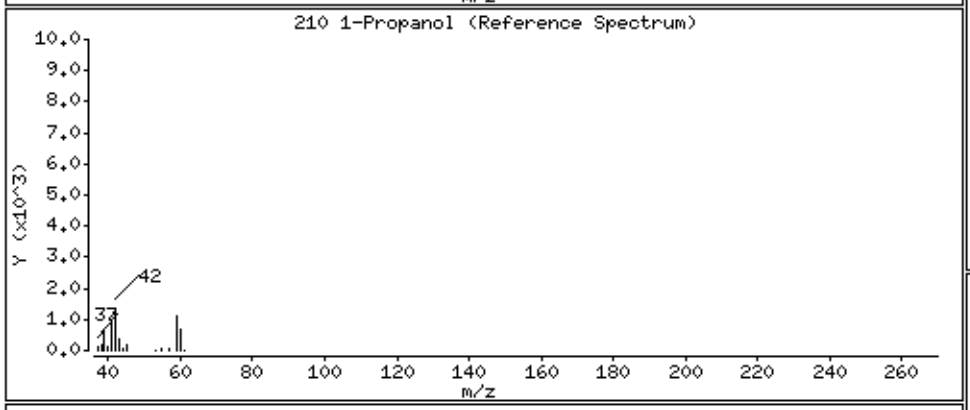
Column diameter: 0.32

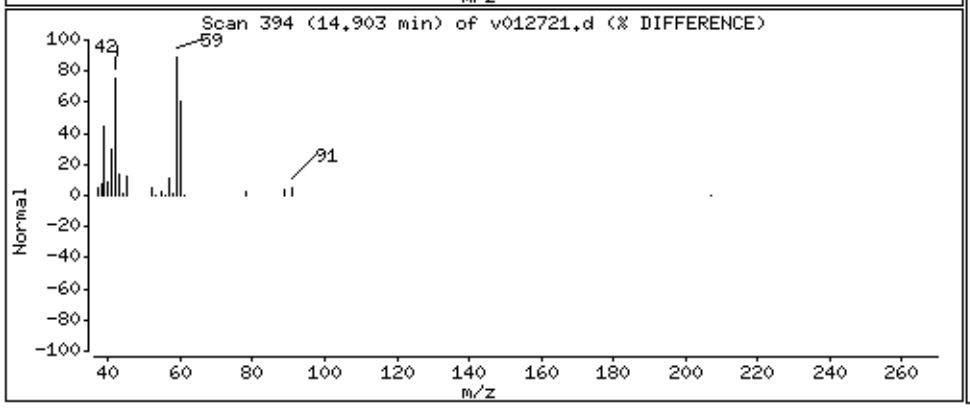
210 1-Propanol

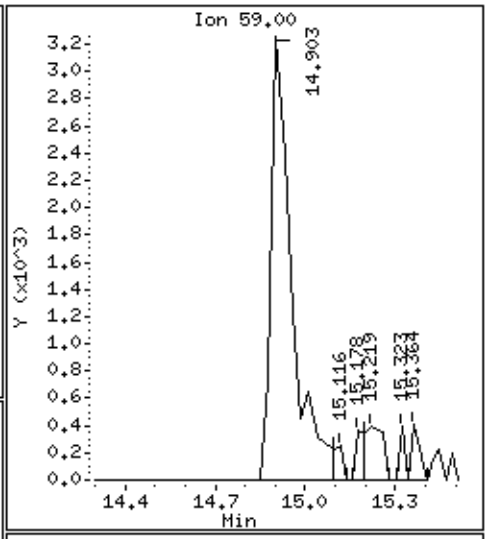
Concentration: 1.046 PPBV

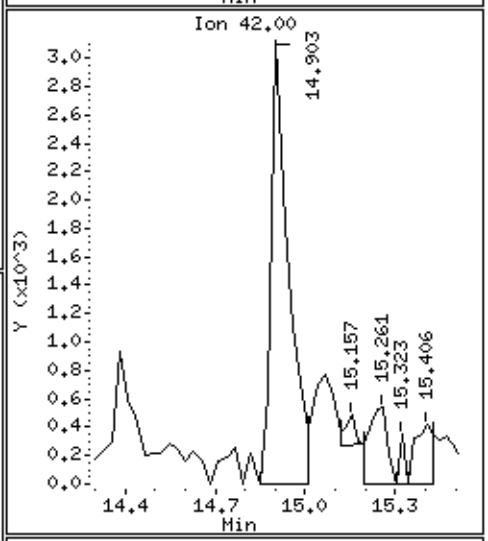


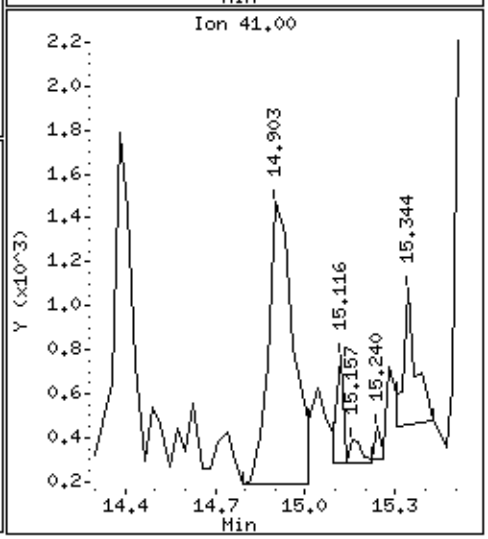












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

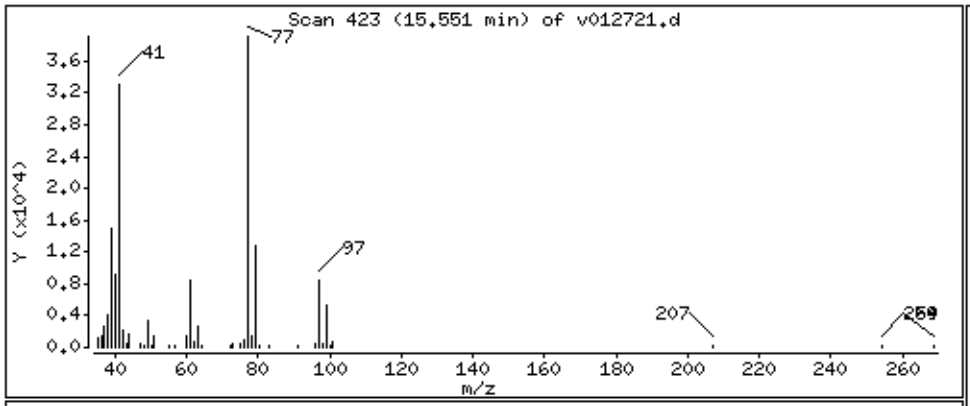
Operator: act

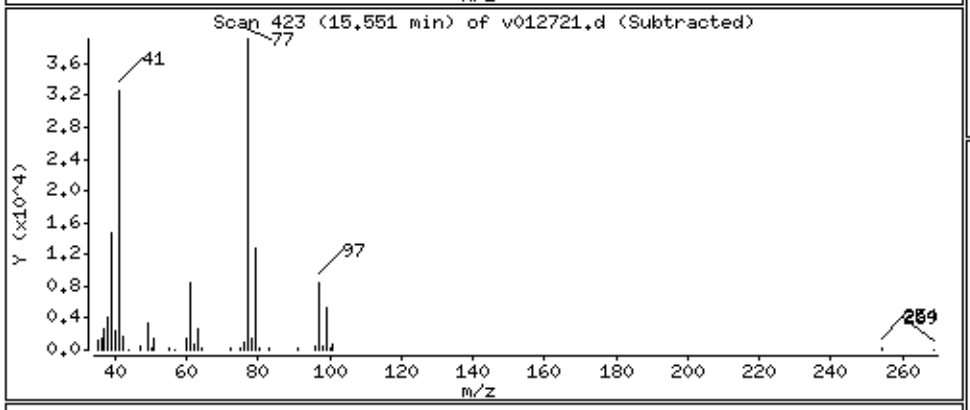
Column phase: RTx-624

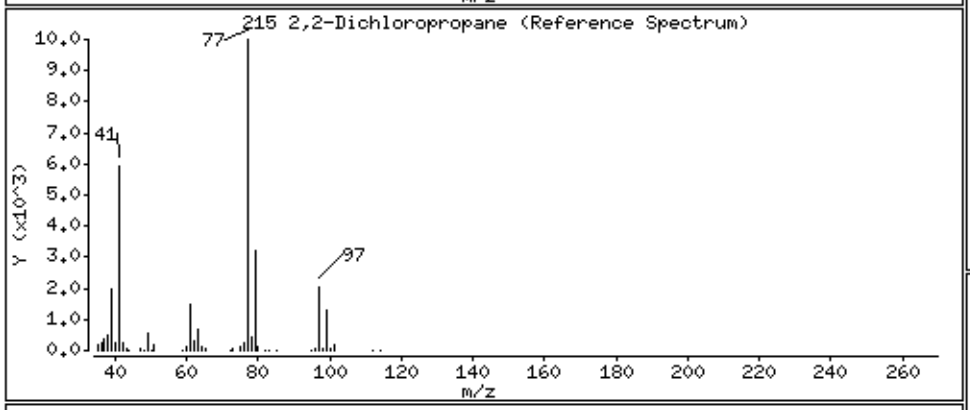
Column diameter: 0.32

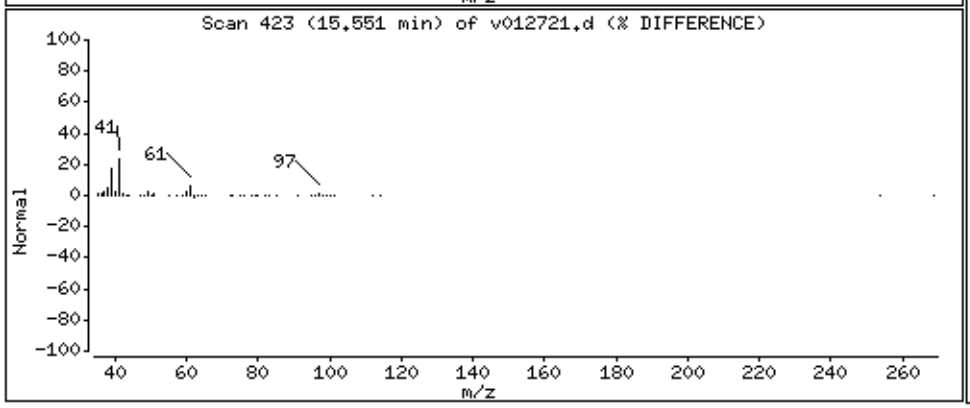
215 2,2-Dichloropropane

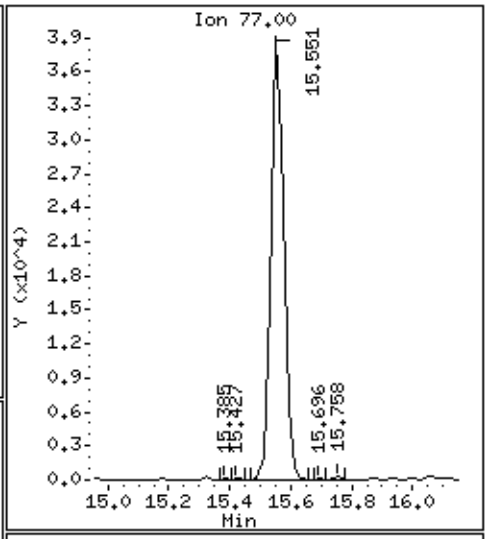
Concentration: 0.9522 PPBV

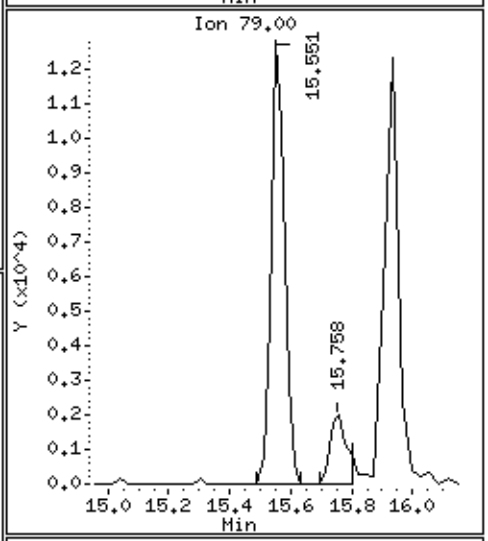


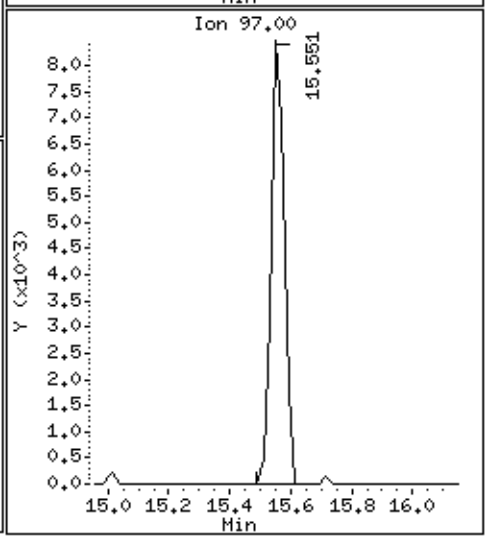












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

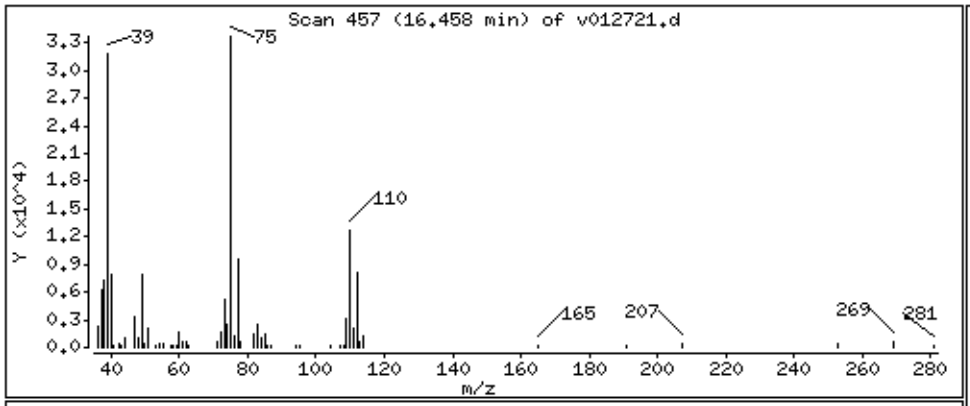
Operator: act

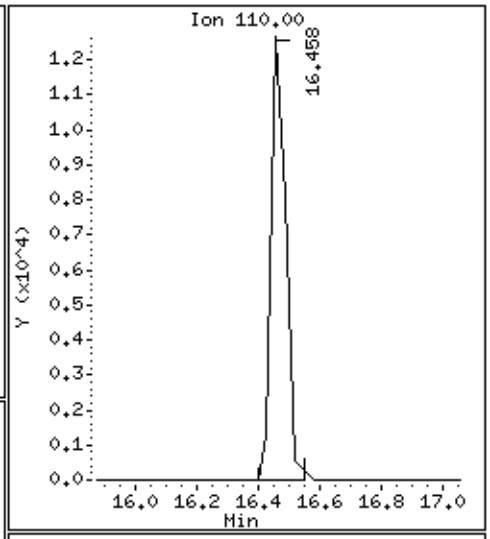
Column phase: RTx-624

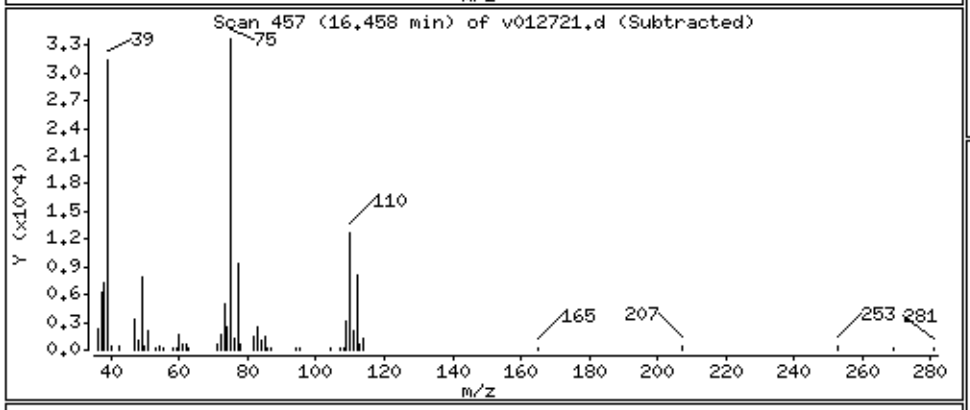
Column diameter: 0.32

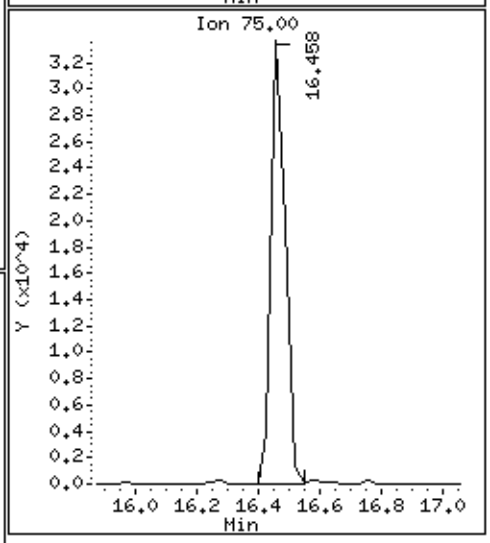
56 1,1-Dicholoropropene

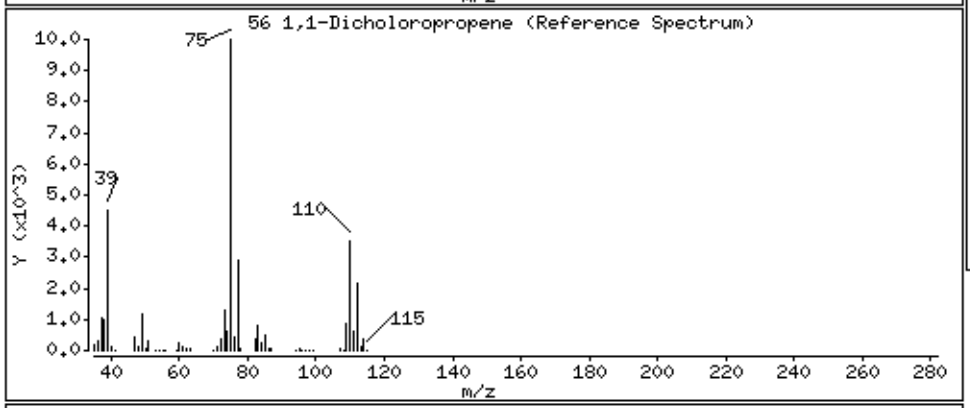
Concentration: 1.002 PPBV

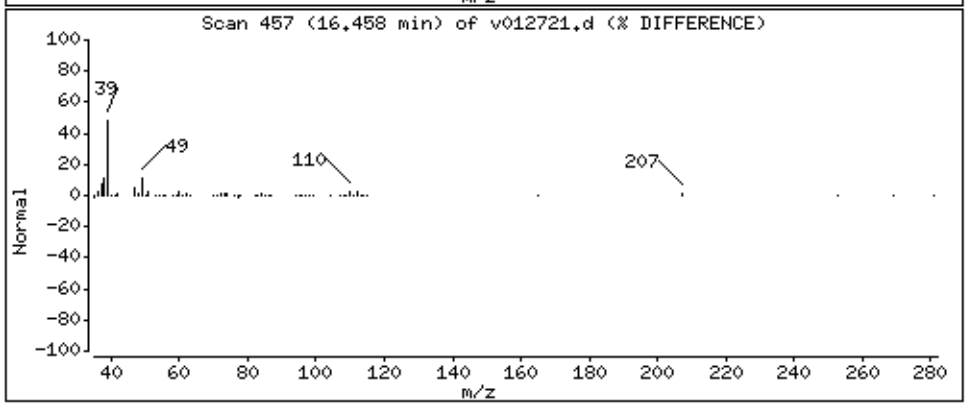












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

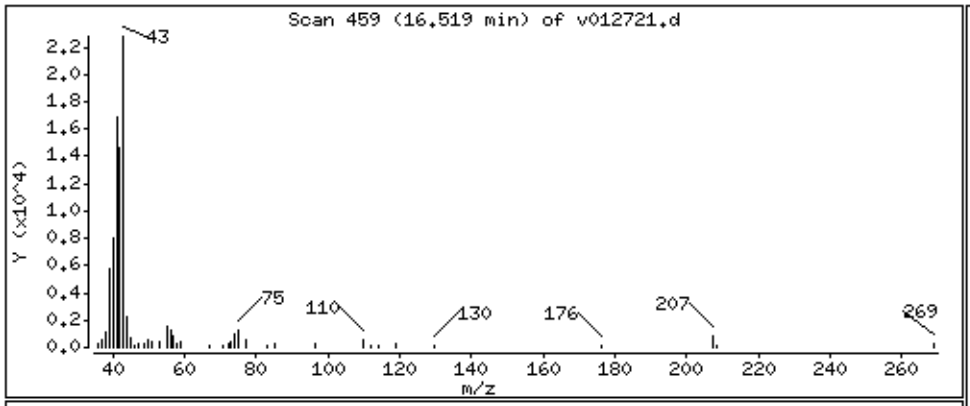
Operator: act

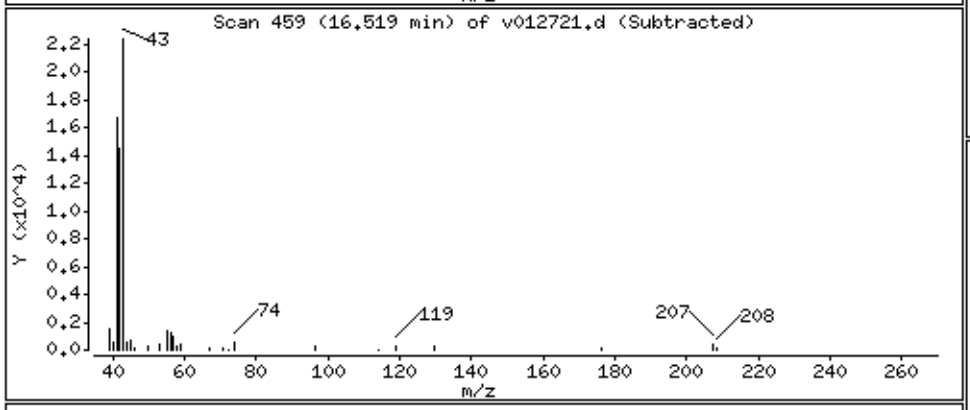
Column phase: RTx-624

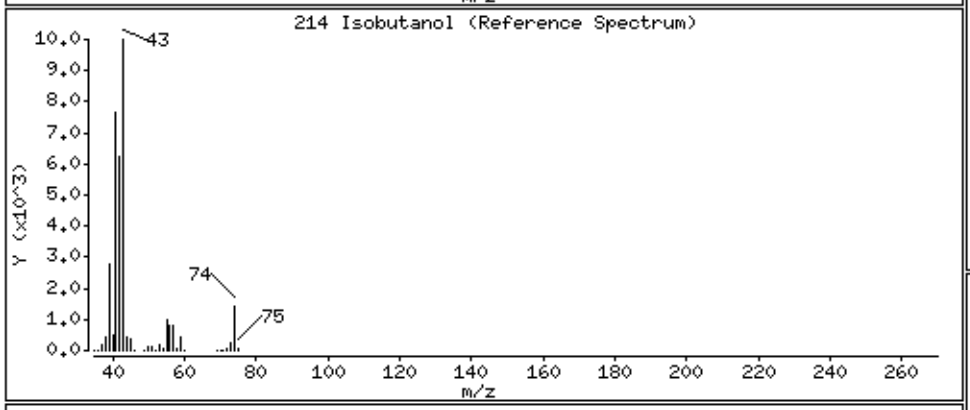
Column diameter: 0.32

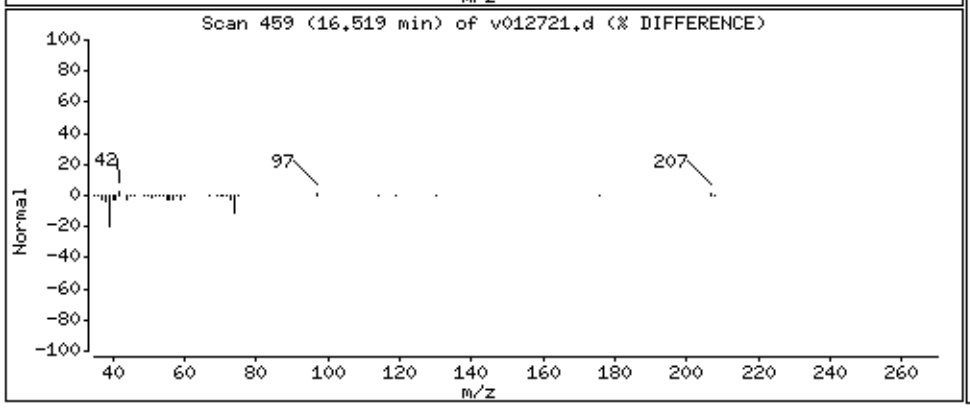
214 Isobutanol

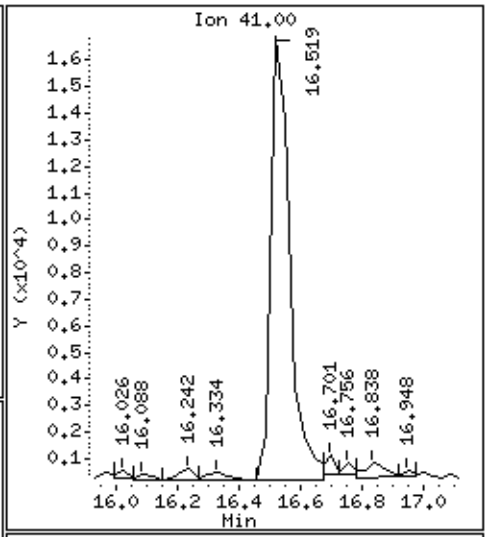
Concentration: 0.9261 PPBV

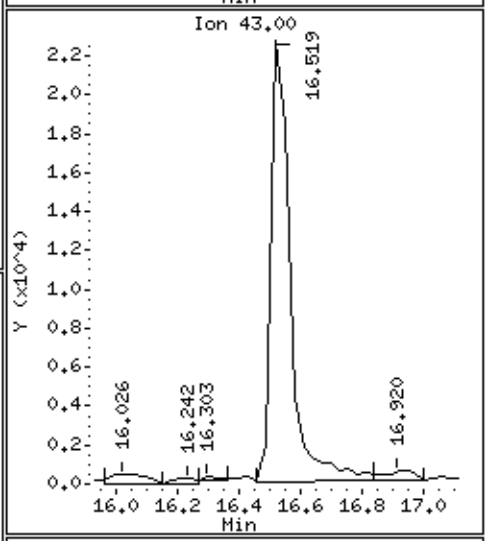


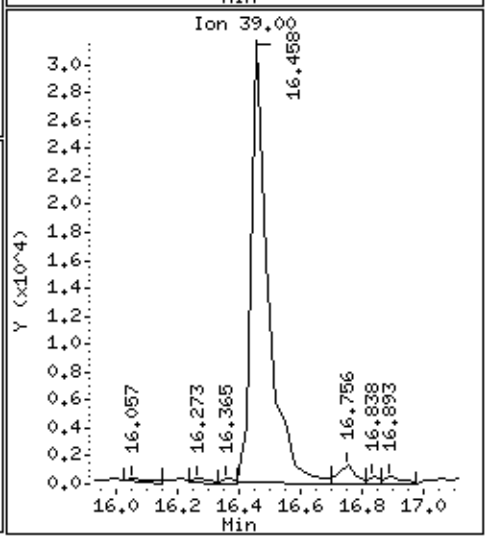












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

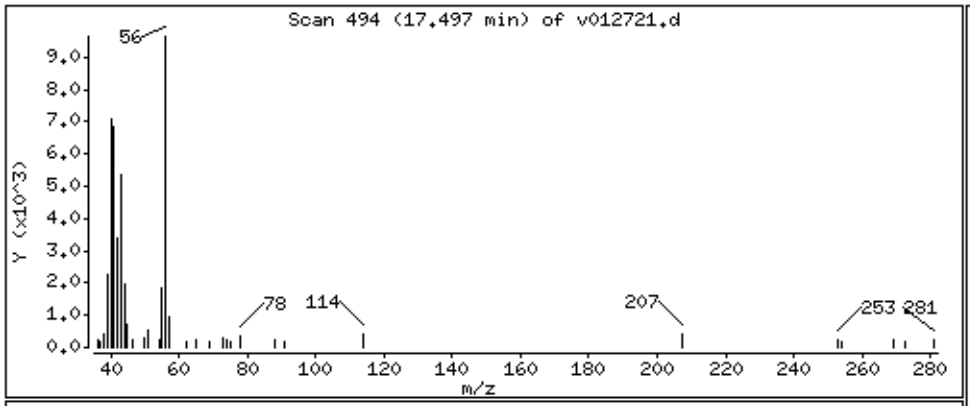
Operator: act

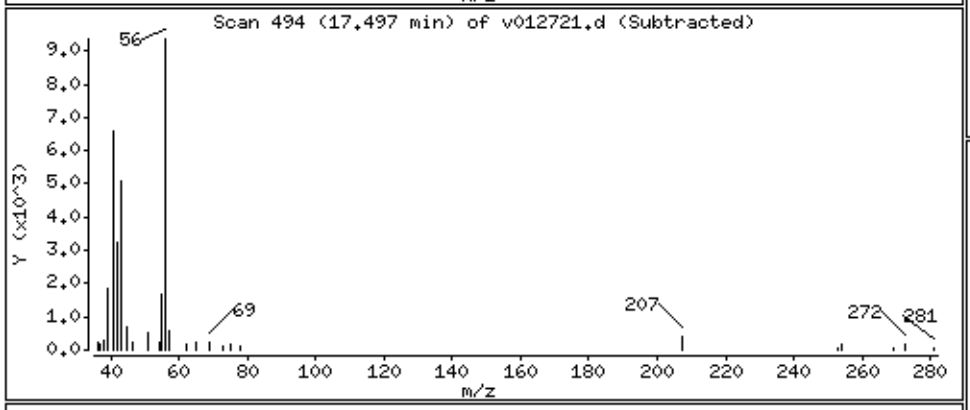
Column phase: RTx-624

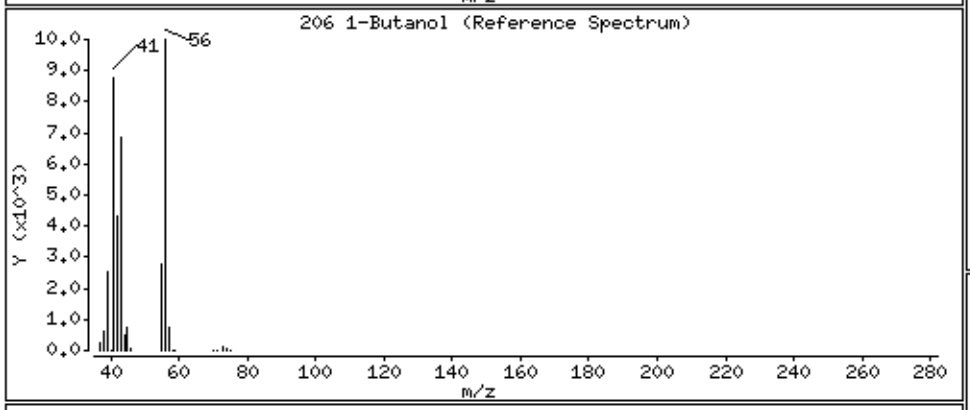
Column diameter: 0.32

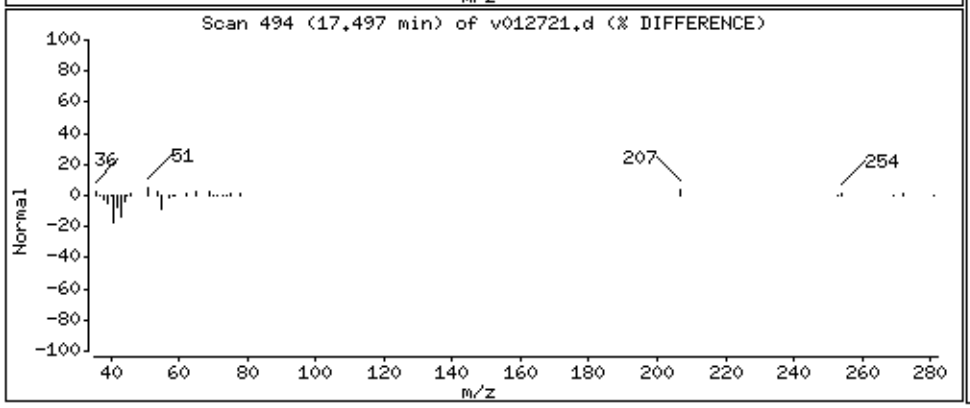
206 1-Butanol

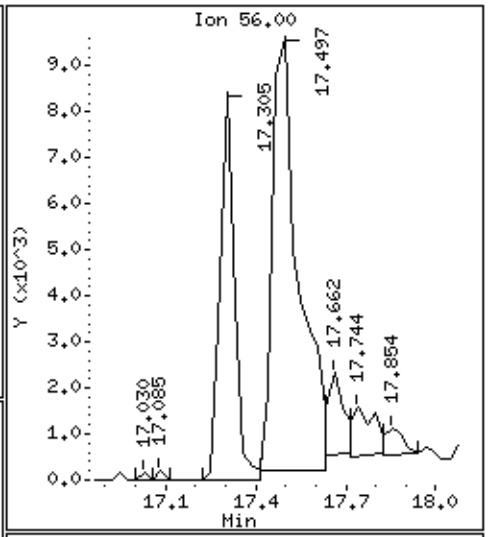
Concentration: 0.5503 PPBV

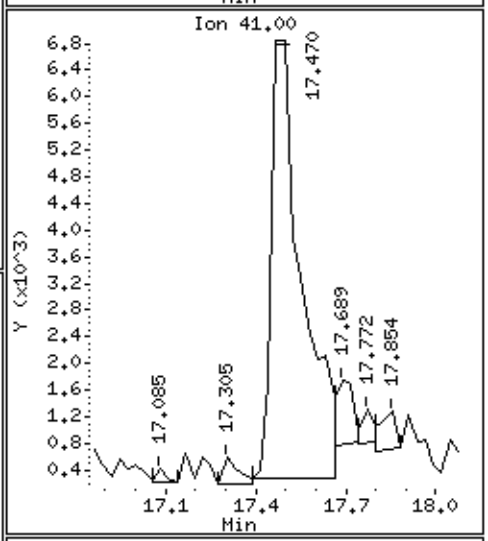


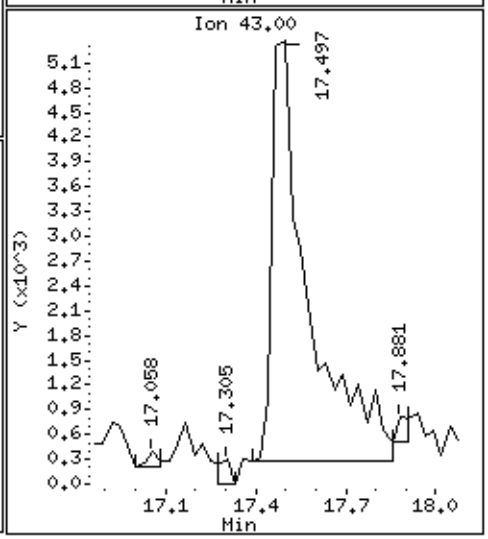












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

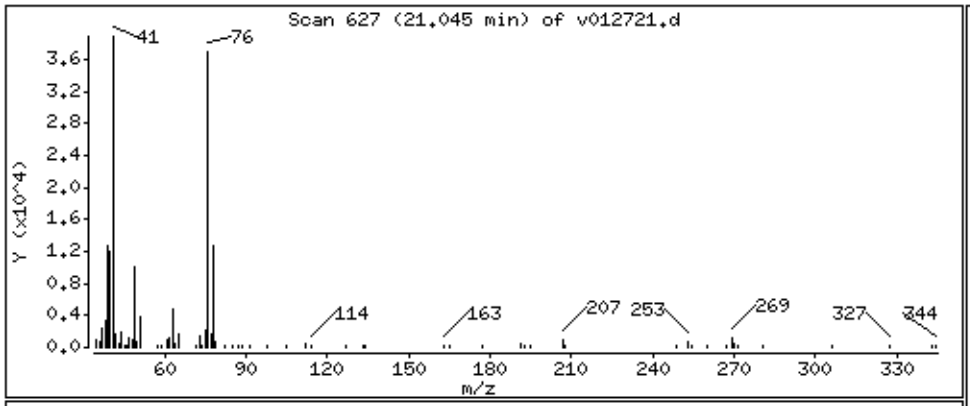
Operator: act

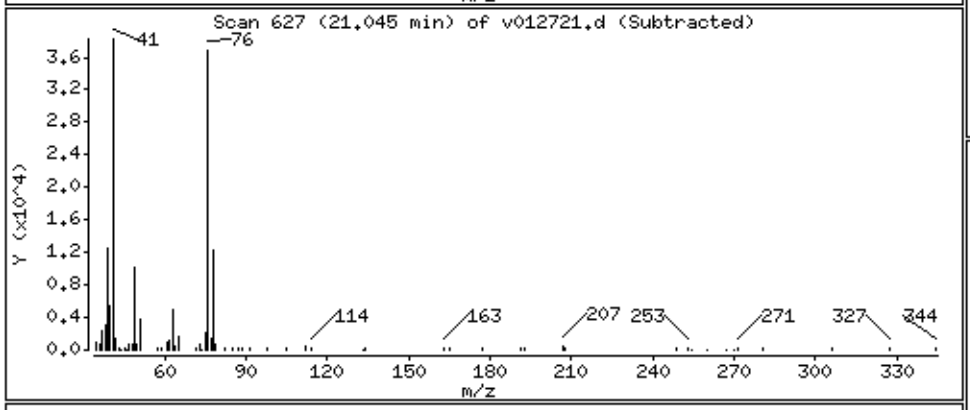
Column phase: RTx-624

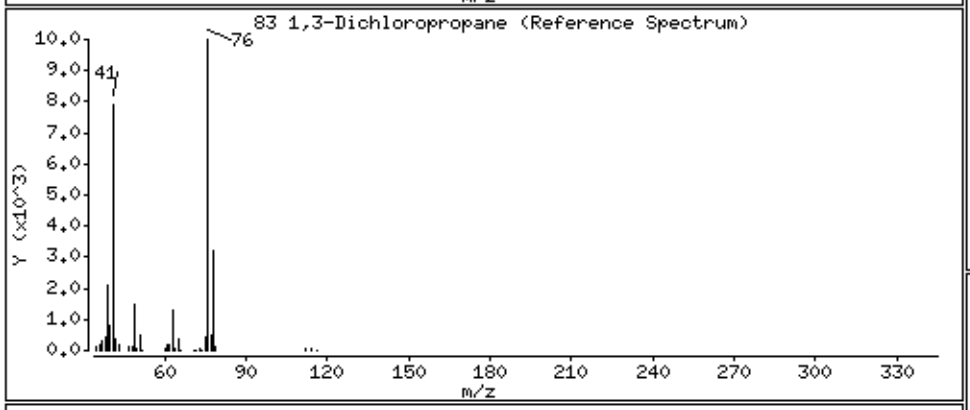
Column diameter: 0.32

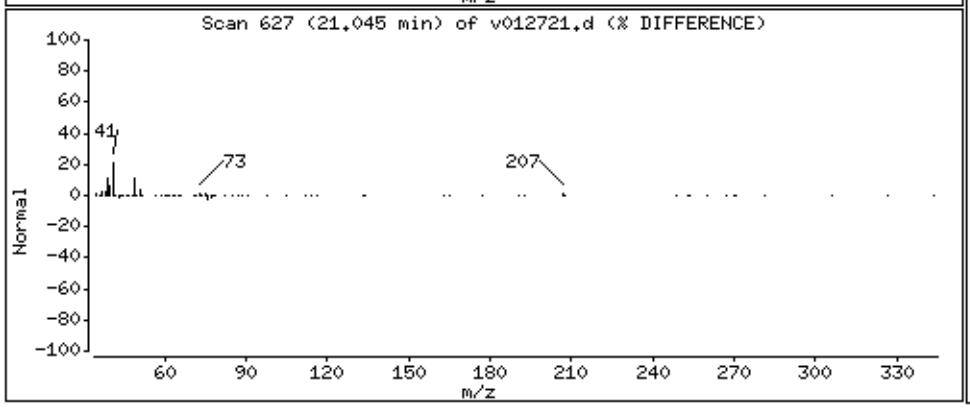
83 1,3-Dichloropropane

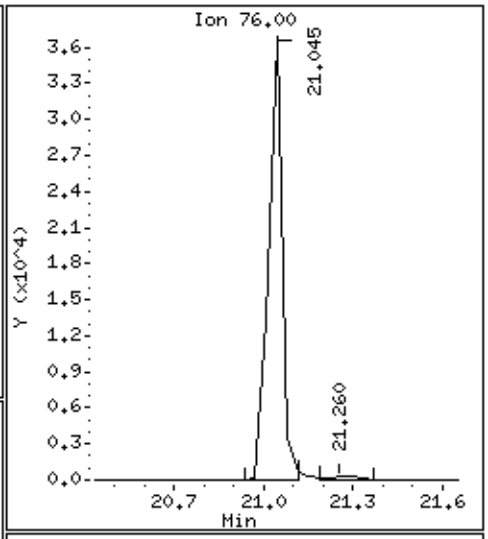
Concentration: 0.9402 PPBV

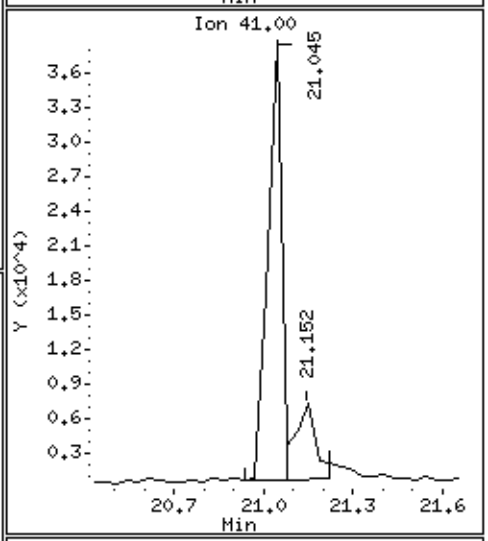


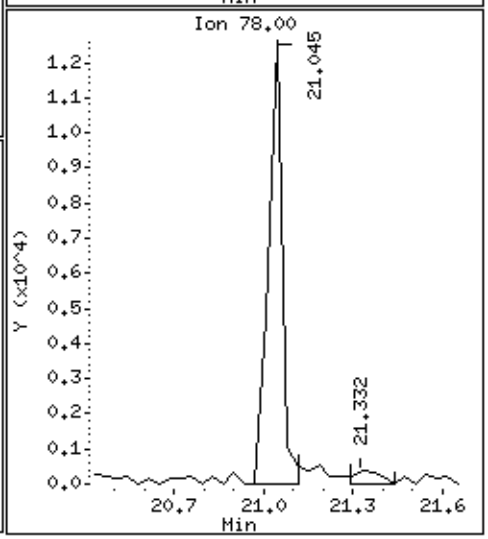












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

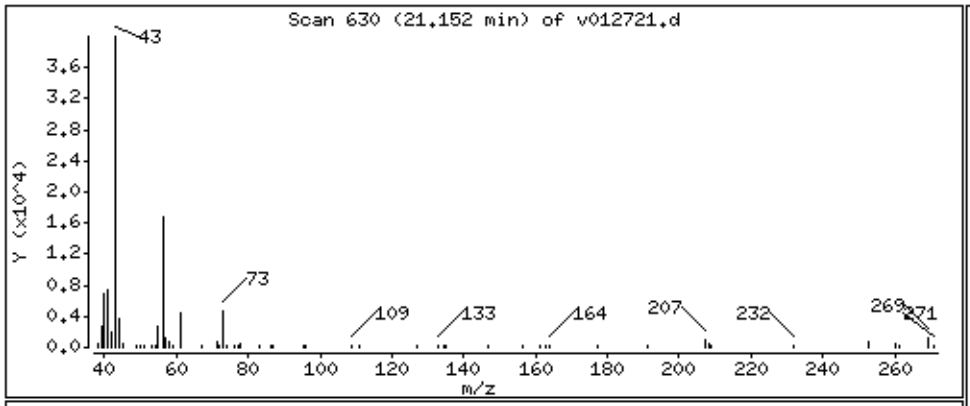
Operator: act

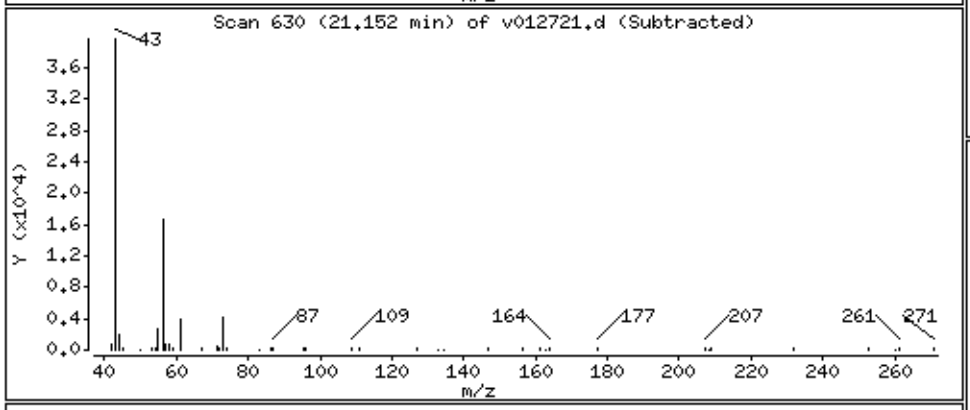
Column phase: RTx-624

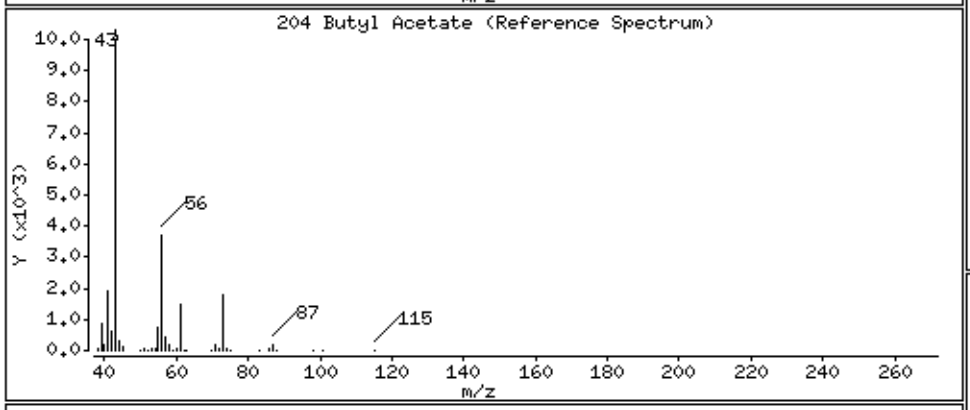
Column diameter: 0.32

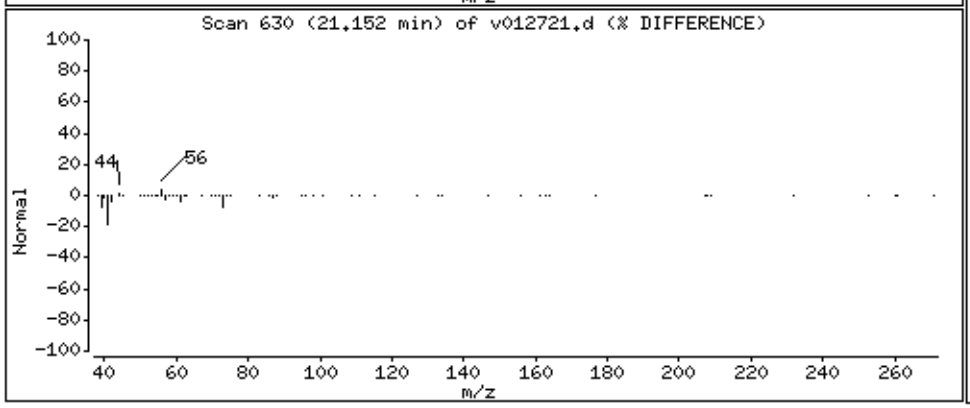
204 Butyl Acetate

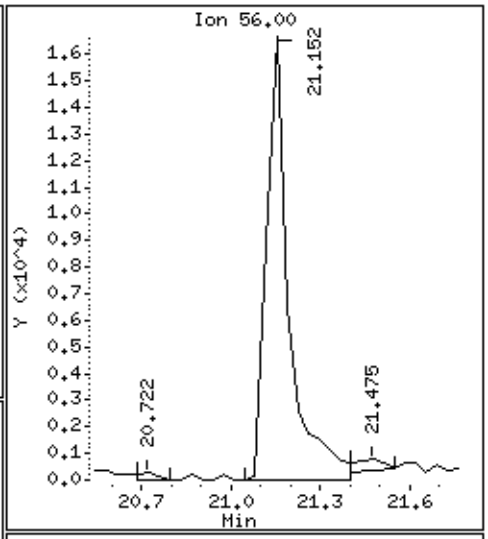
Concentration: 1.557 PPBV

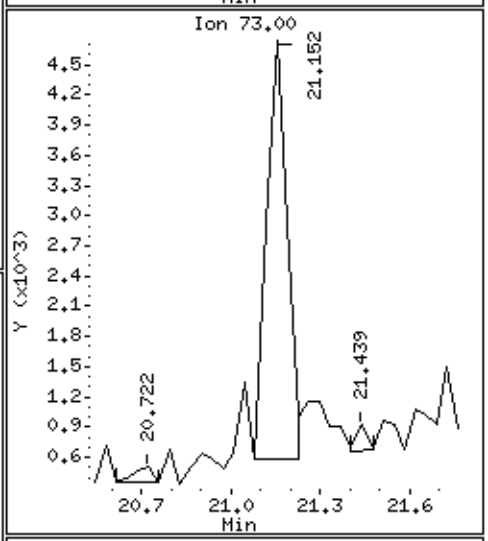


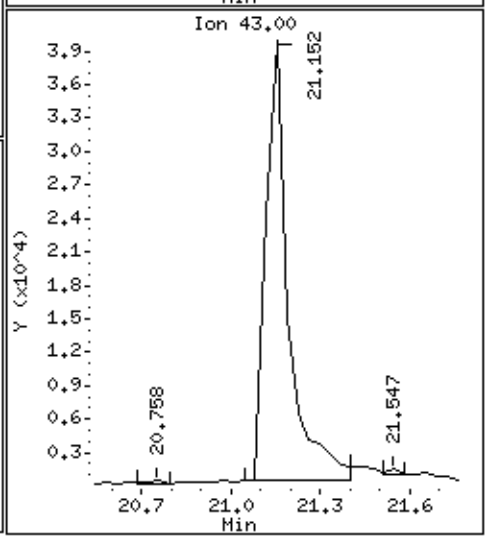












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

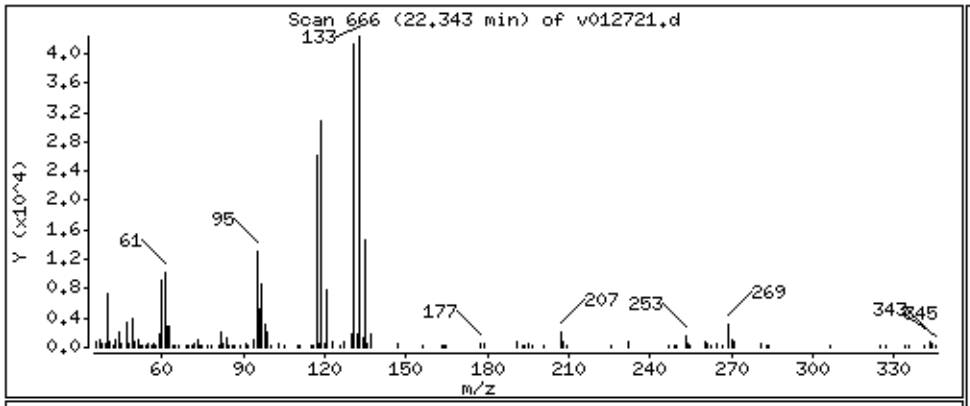
Operator: act

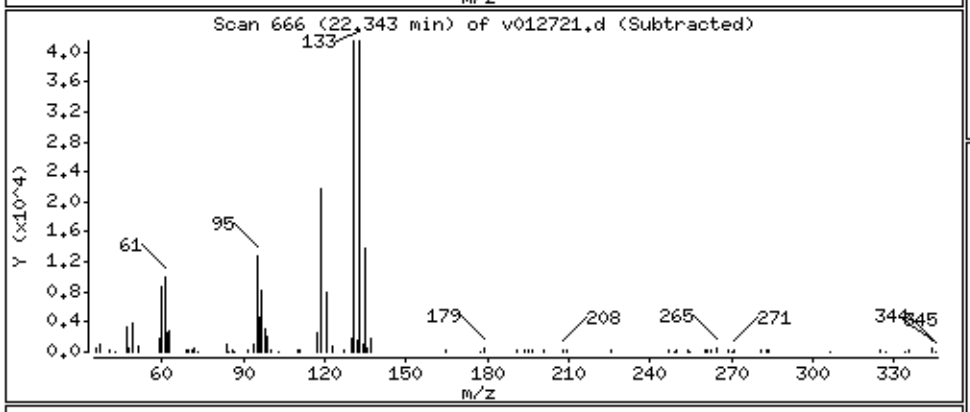
Column phase: RTx-624

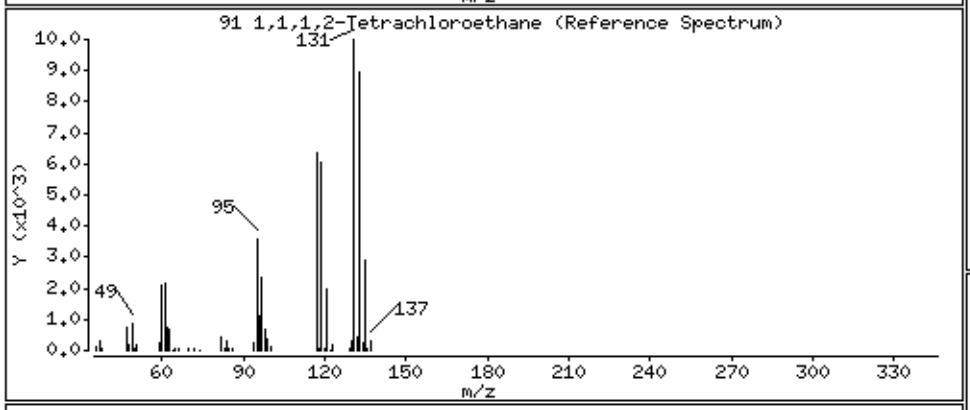
Column diameter: 0.32

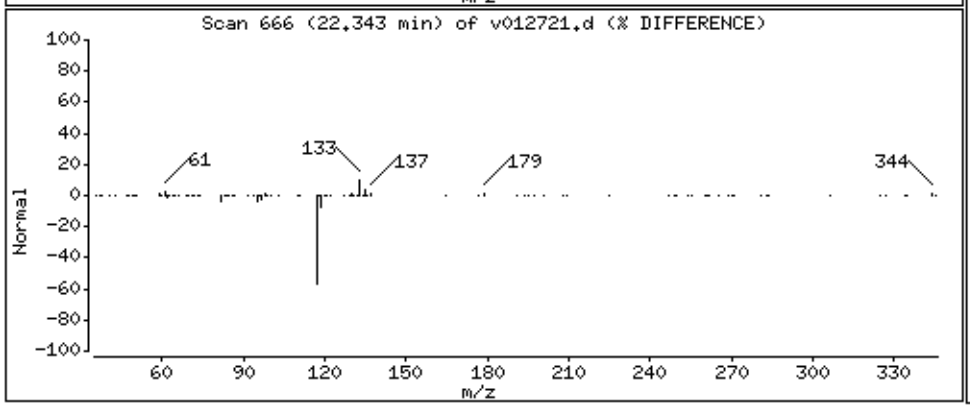
91 1,1,1,2-Tetrachloroethane

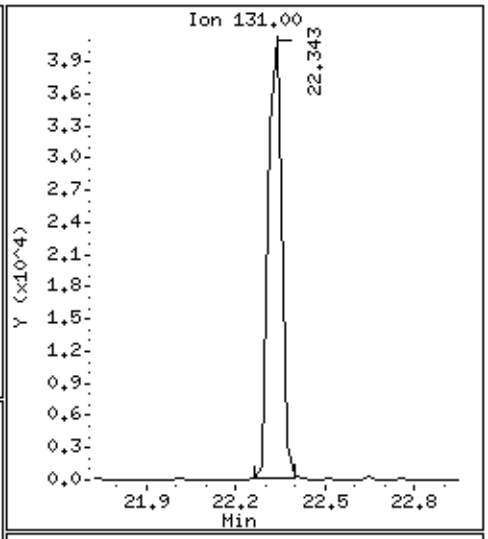
Concentration: 0.9666 PPBV

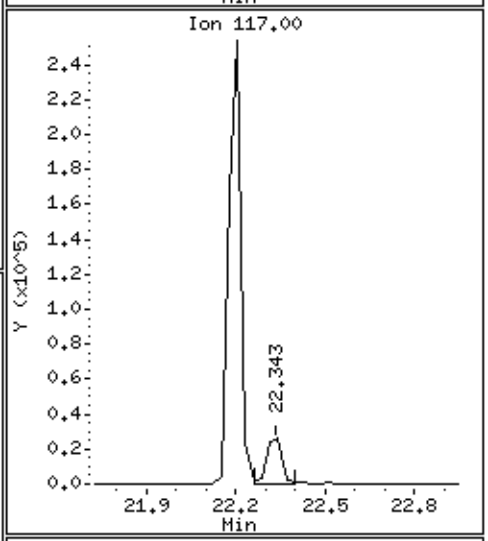


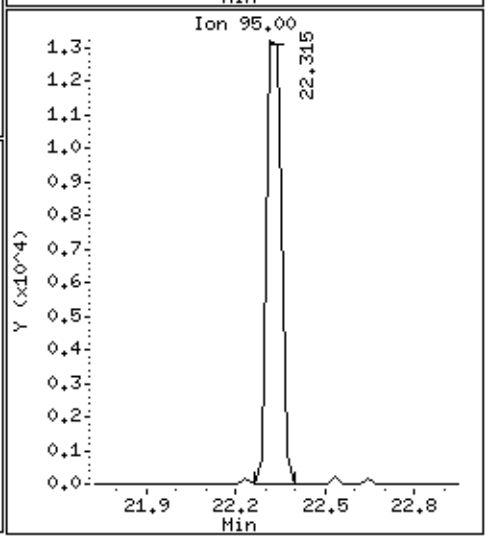












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

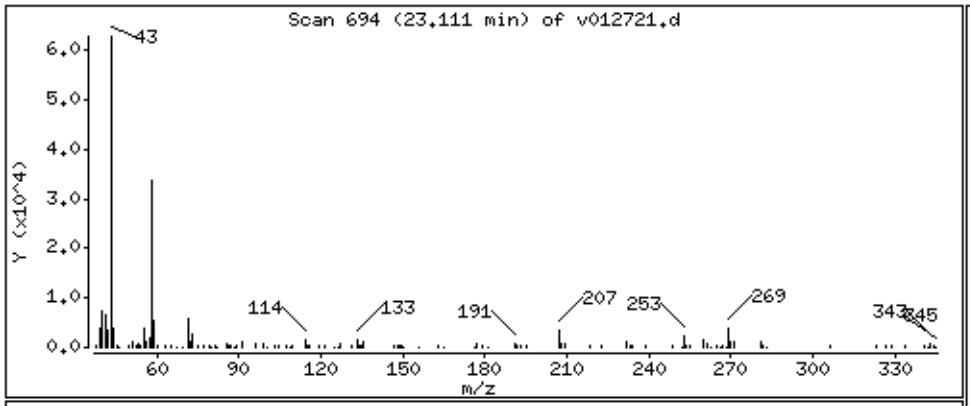
Operator: act

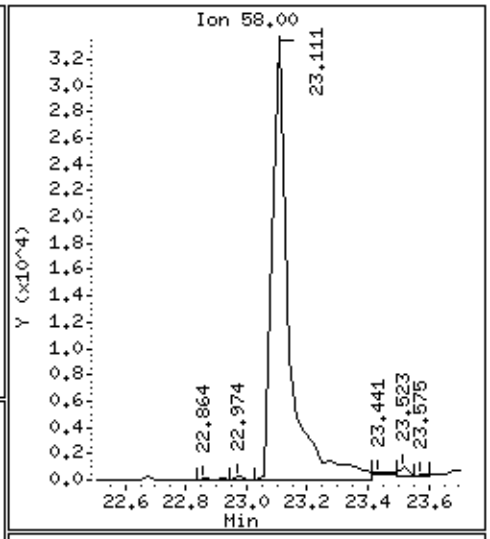
Column phase: RTx-624

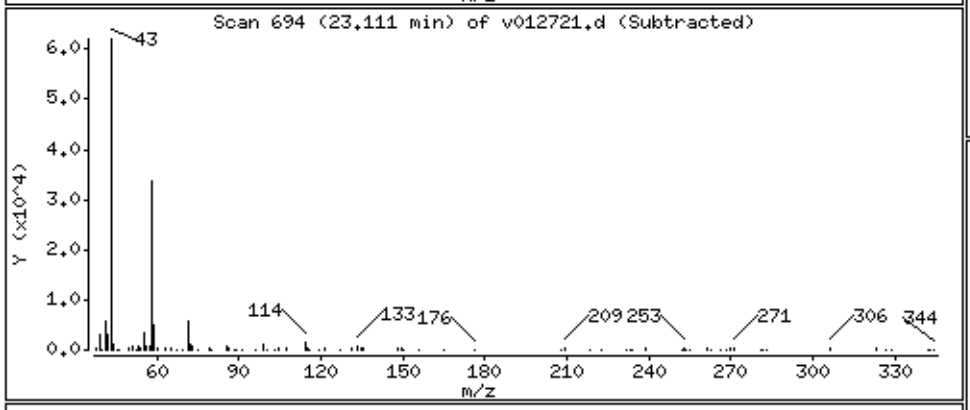
Column diameter: 0.32

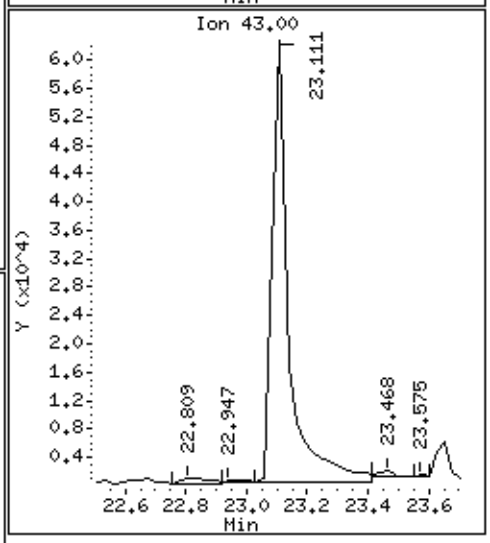
205 2-Heptanone

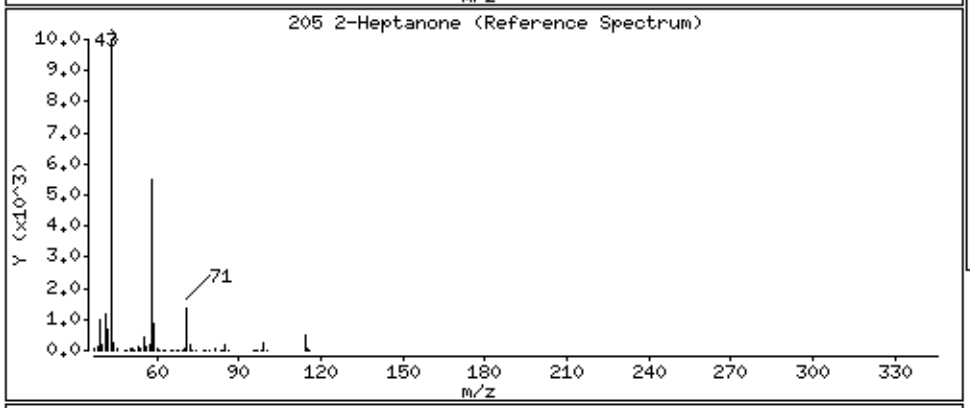
Concentration: 1.066 PPBV

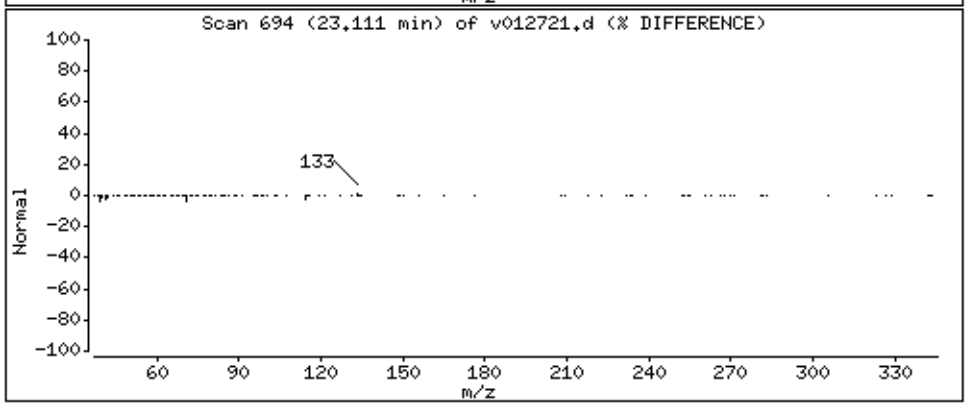












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

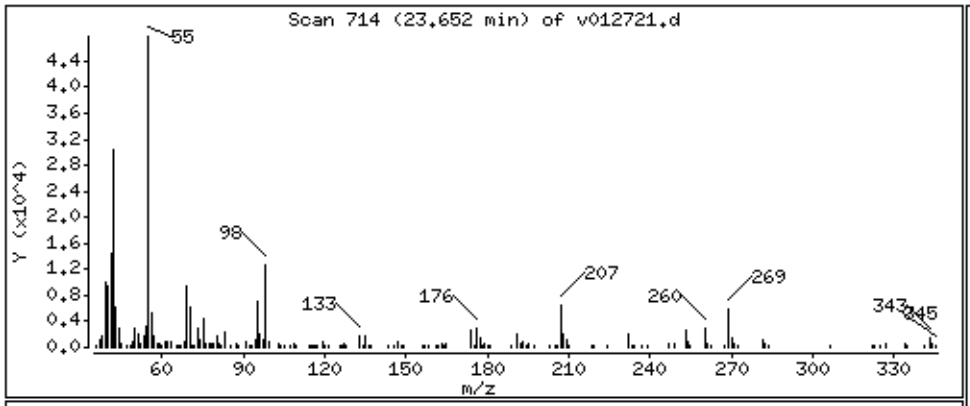
Operator: act

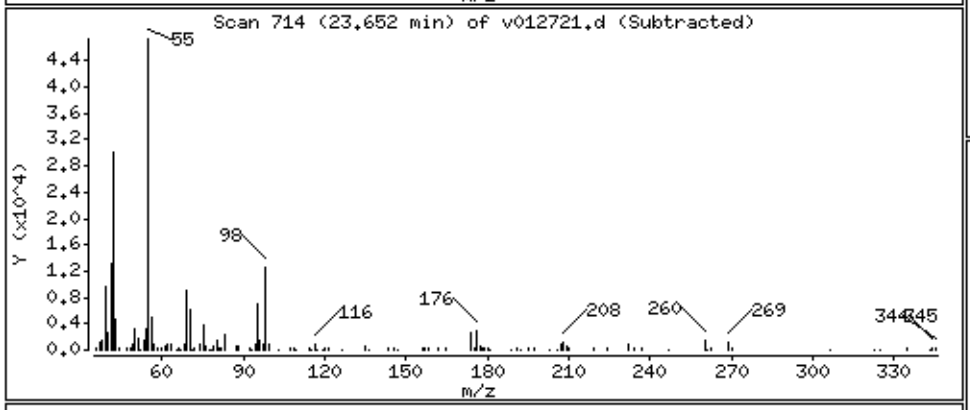
Column phase: RTx-624

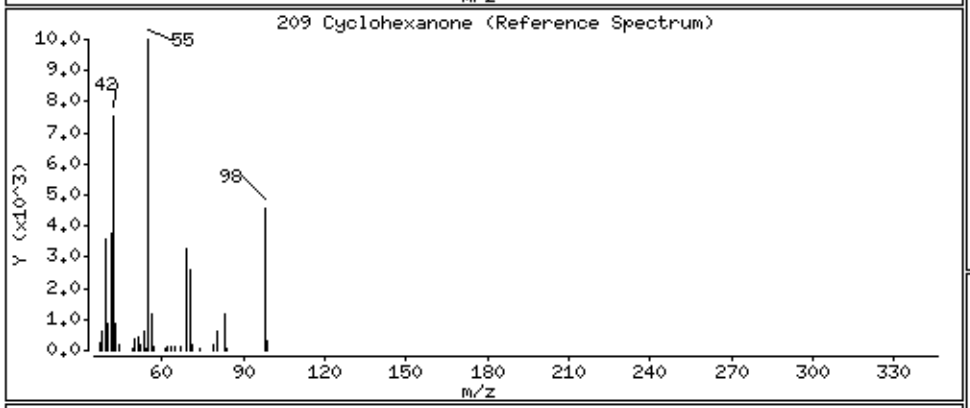
Column diameter: 0.32

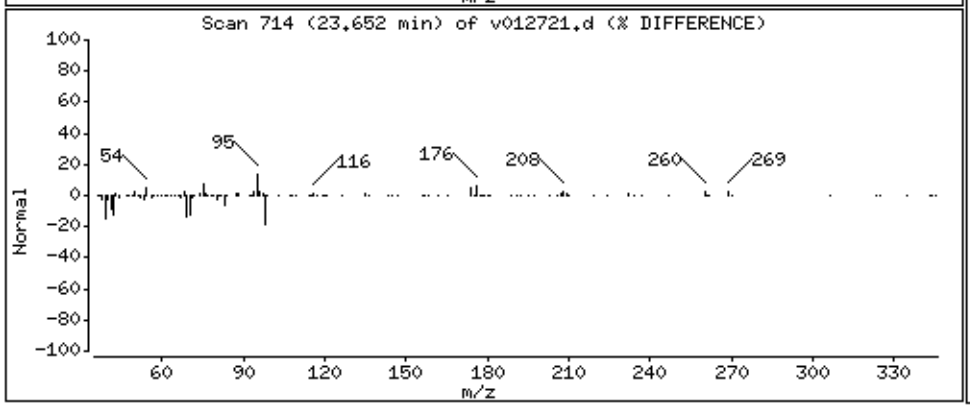
209 Cyclohexanone

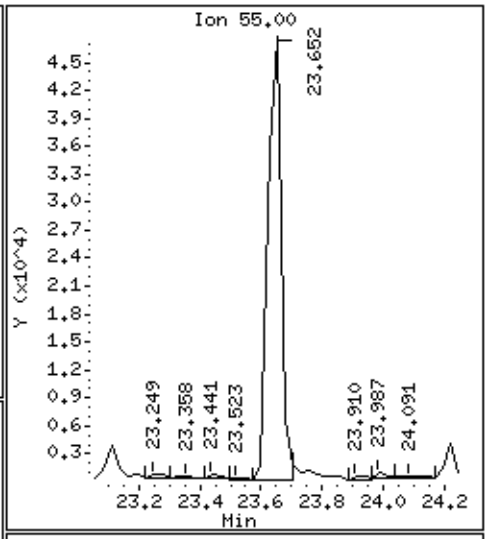
Concentration: 1.294 PPBV

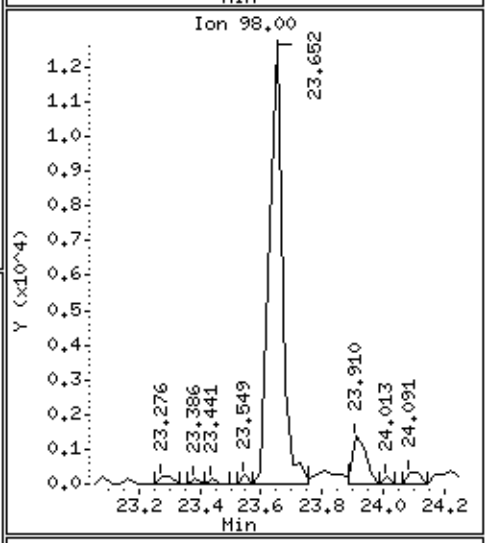


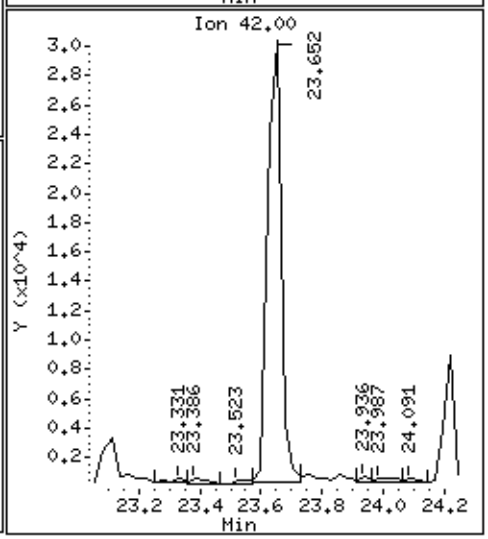












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

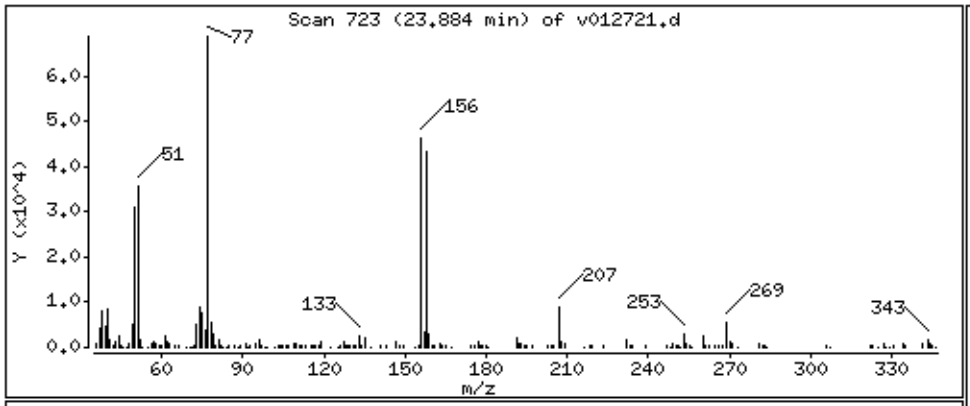
Operator: act

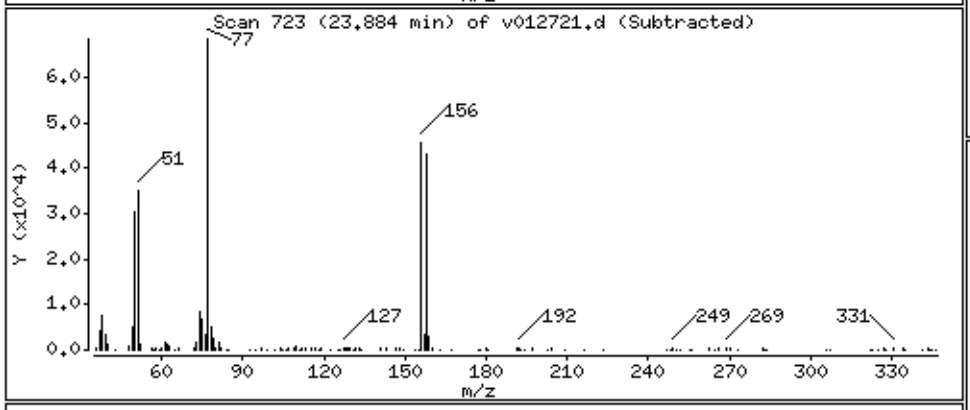
Column phase: RTx-624

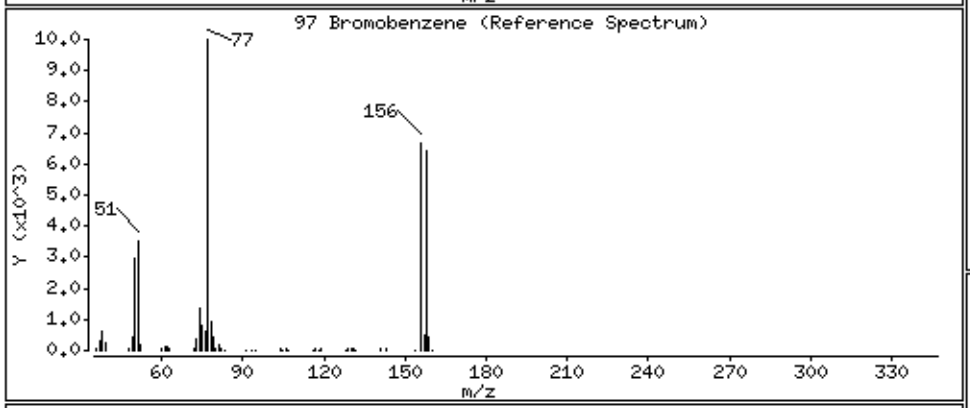
Column diameter: 0.32

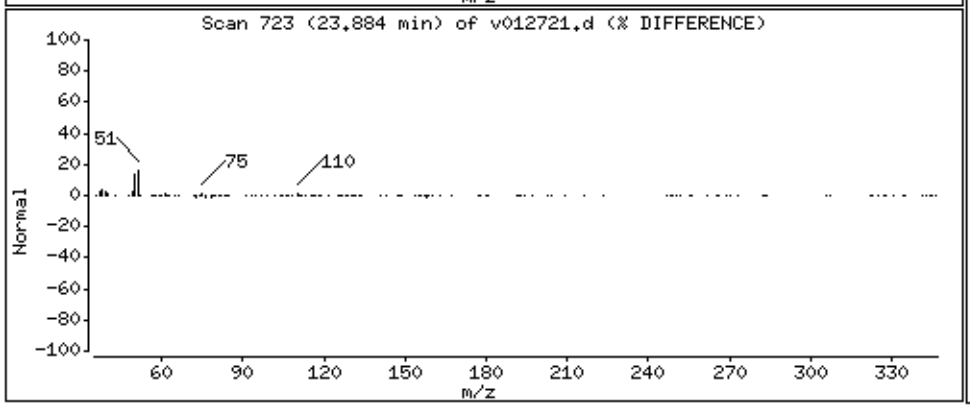
97 Bromobenzene

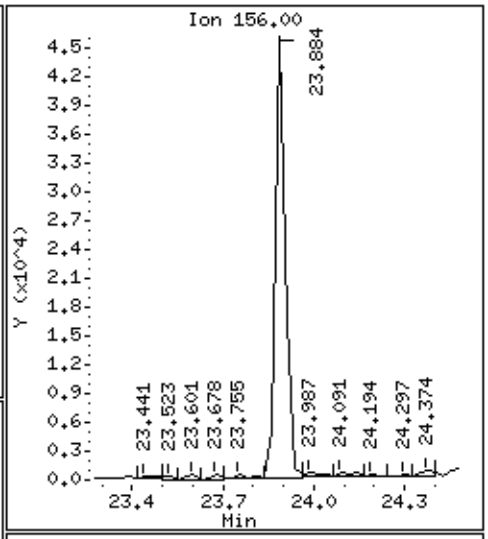
Concentration: 0.9944 PPBV

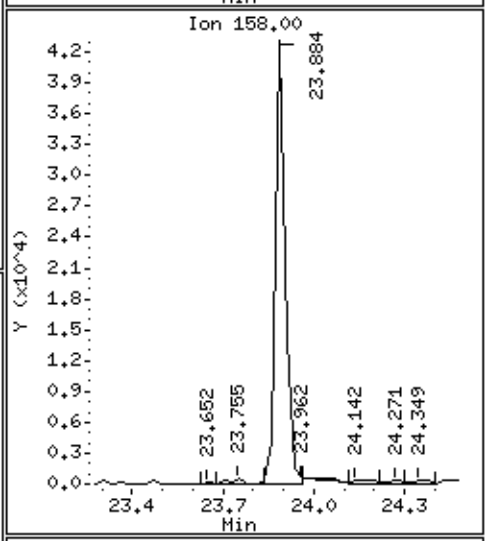


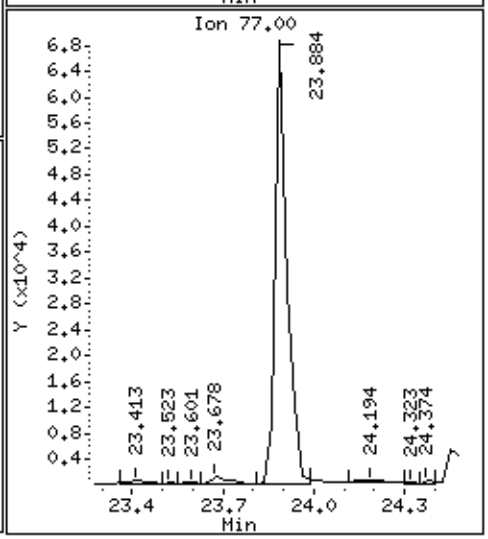












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

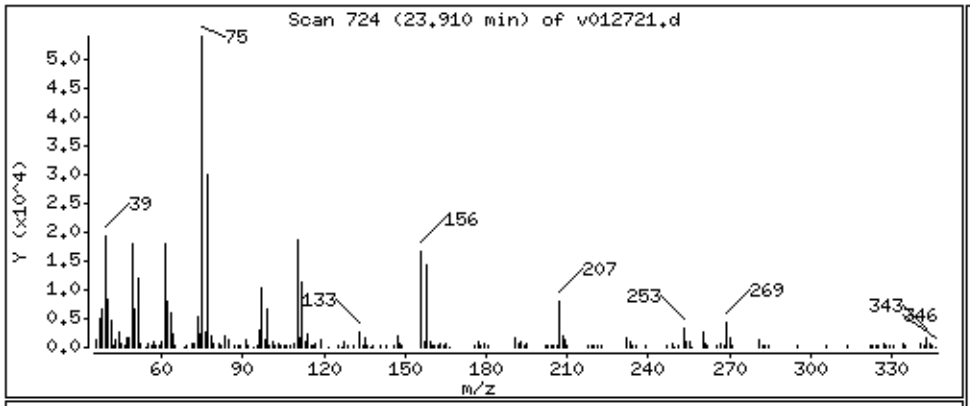
Operator: act

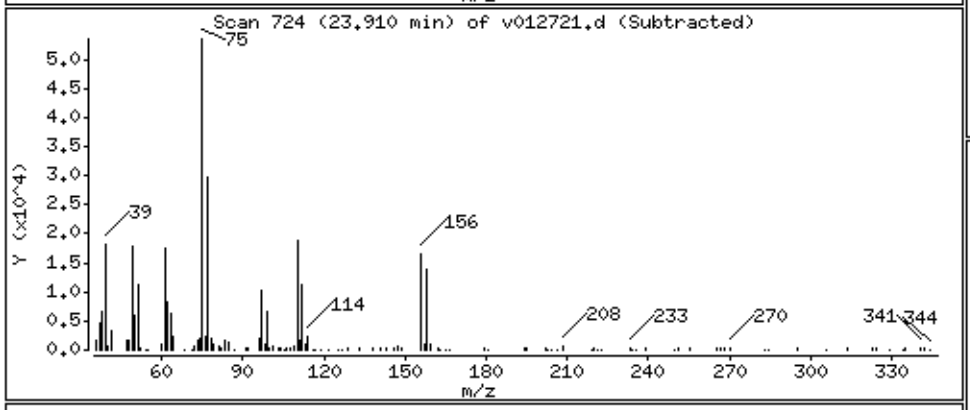
Column phase: RTx-624

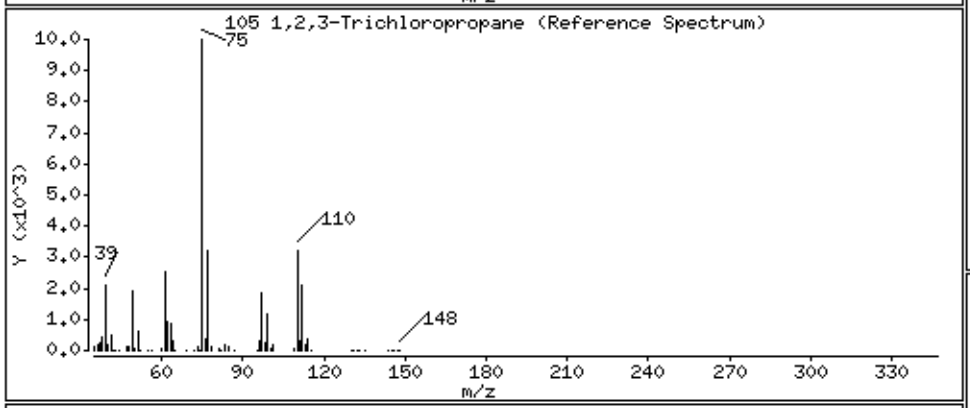
Column diameter: 0.32

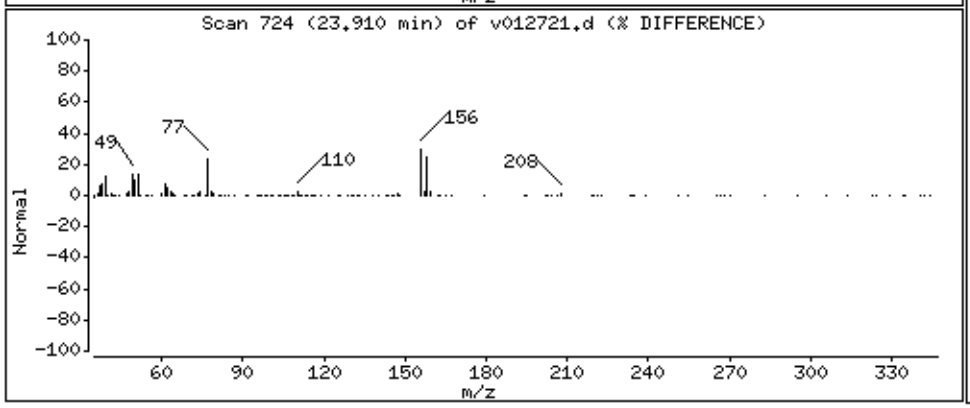
105 1,2,3-Trichloropropane

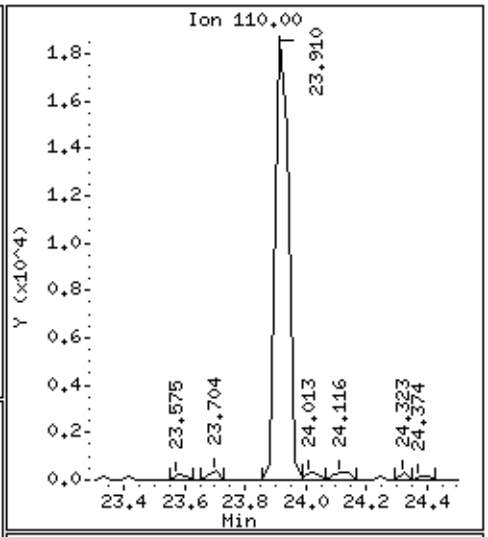
Concentration: 0.9619 PPBV

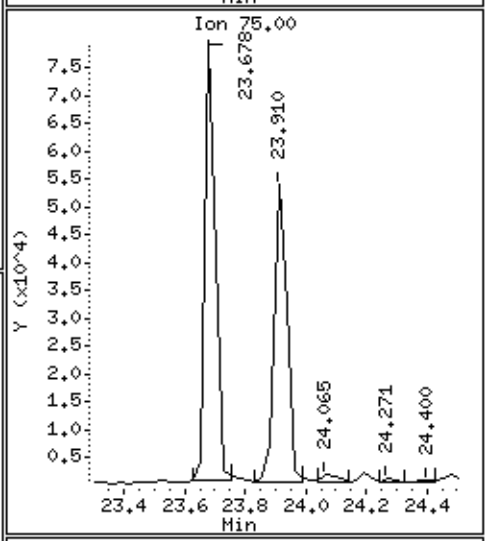


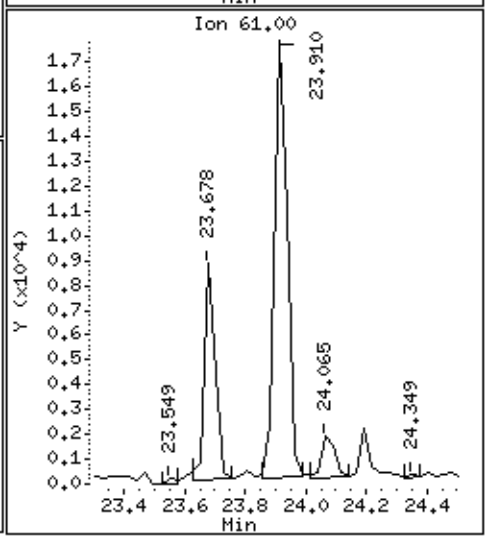












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

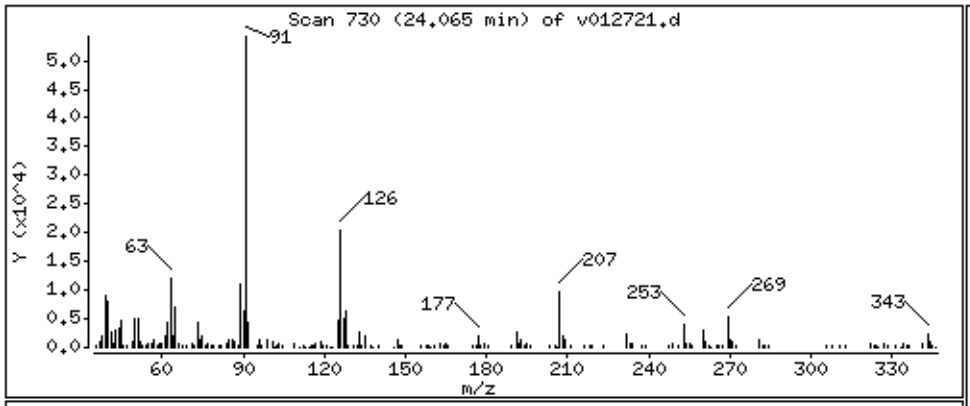
Operator: act

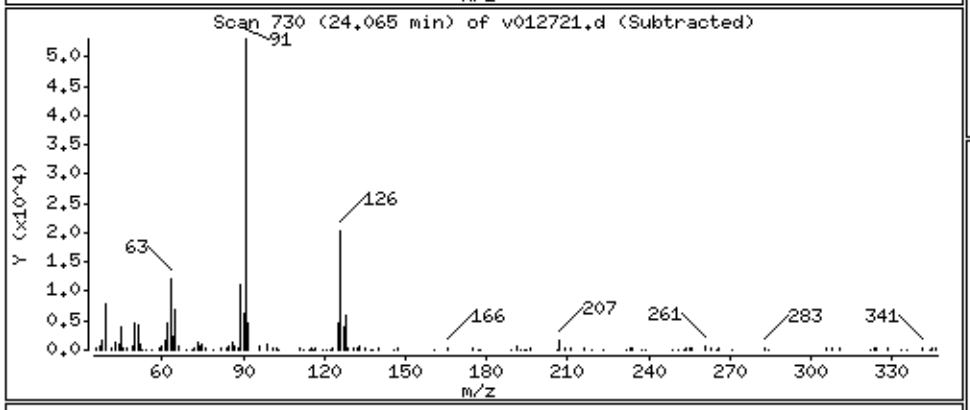
Column phase: RTx-624

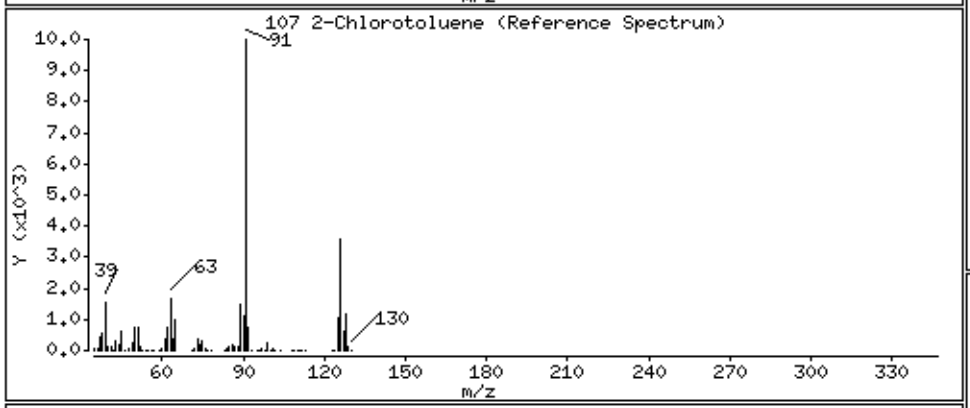
Column diameter: 0.32

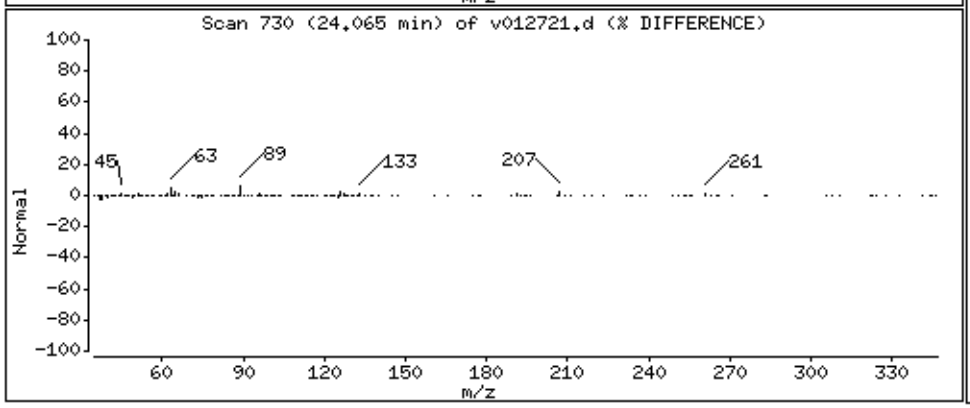
107 2-Chlorotoluene

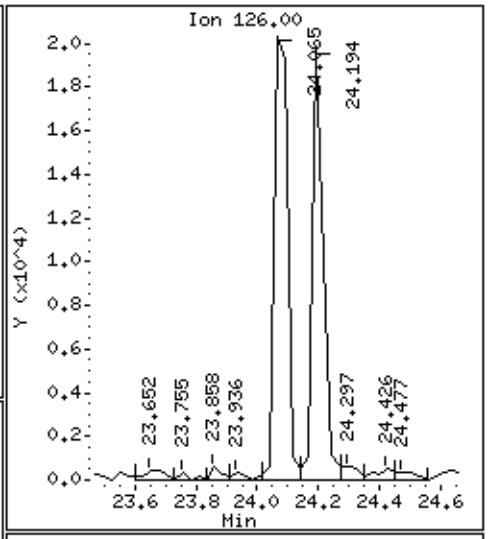
Concentration: 1.030 PPBV

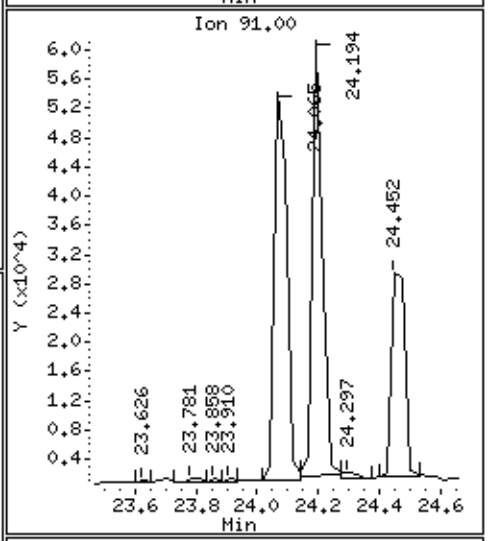


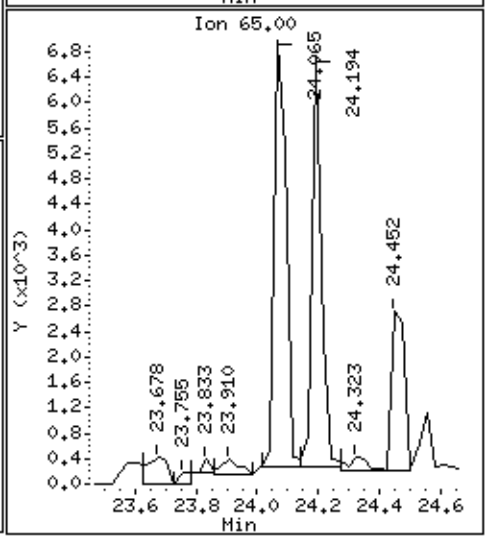












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

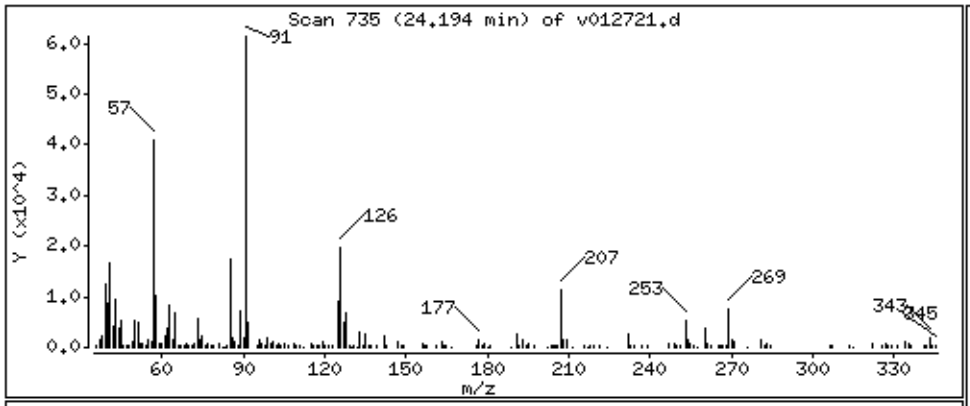
Operator: act

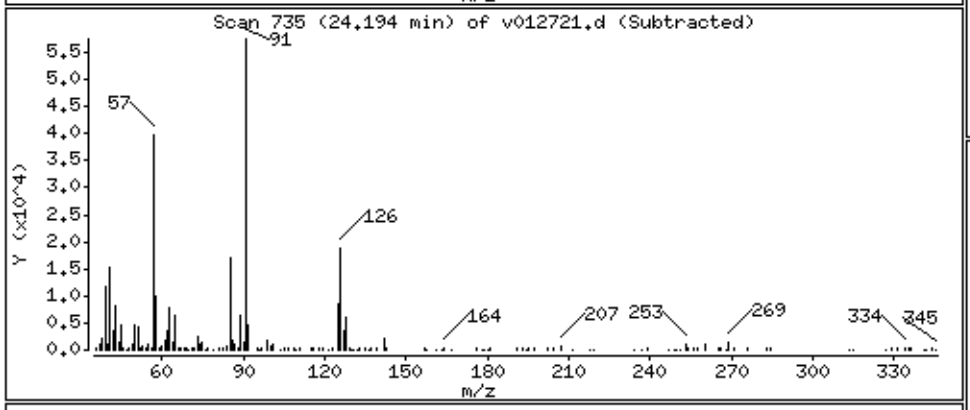
Column phase: RTx-624

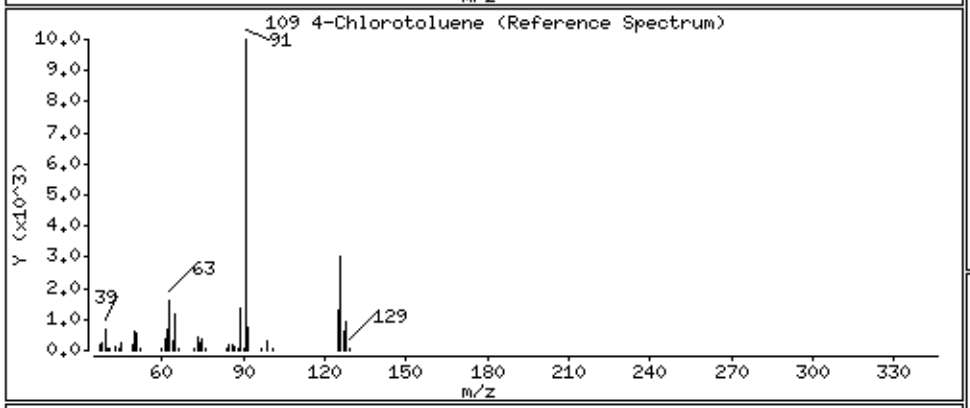
Column diameter: 0.32

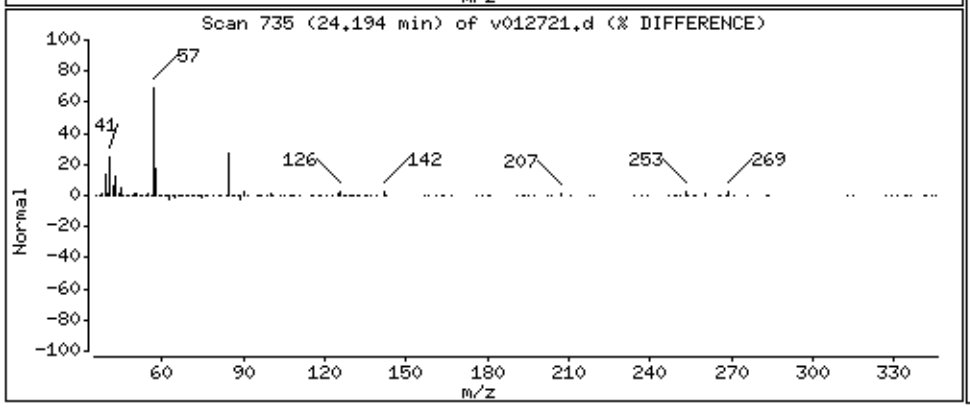
109 4-Chlorotoluene

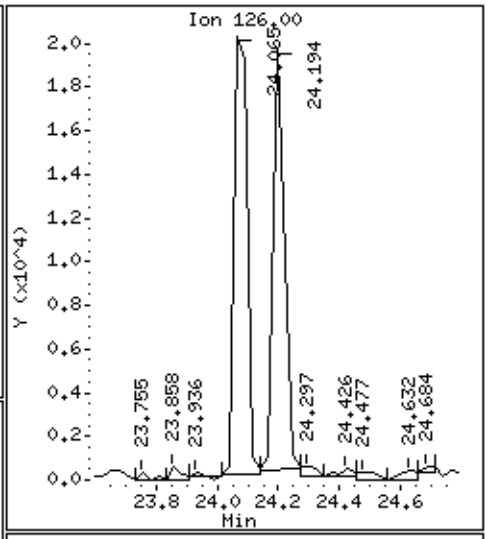
Concentration: 0.9100 PPBV

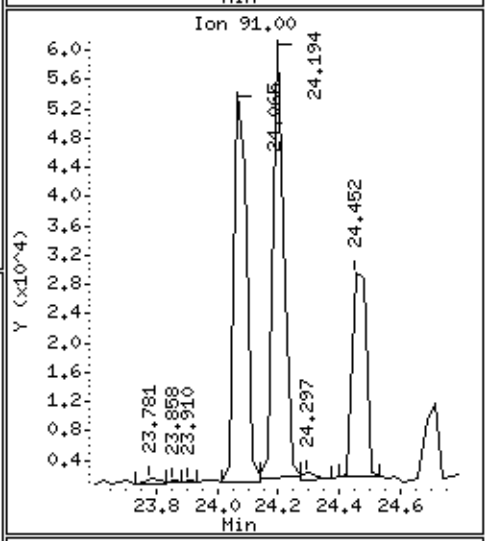


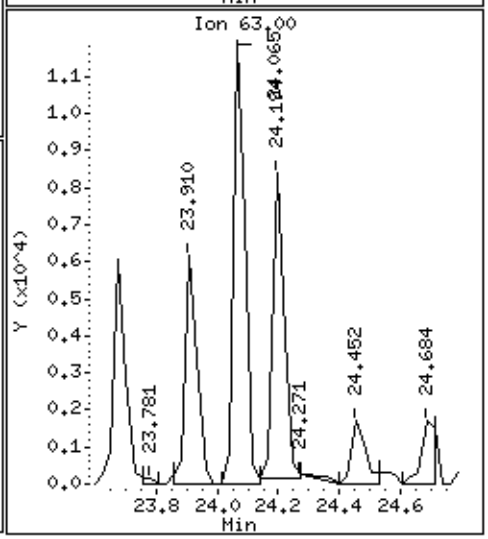












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

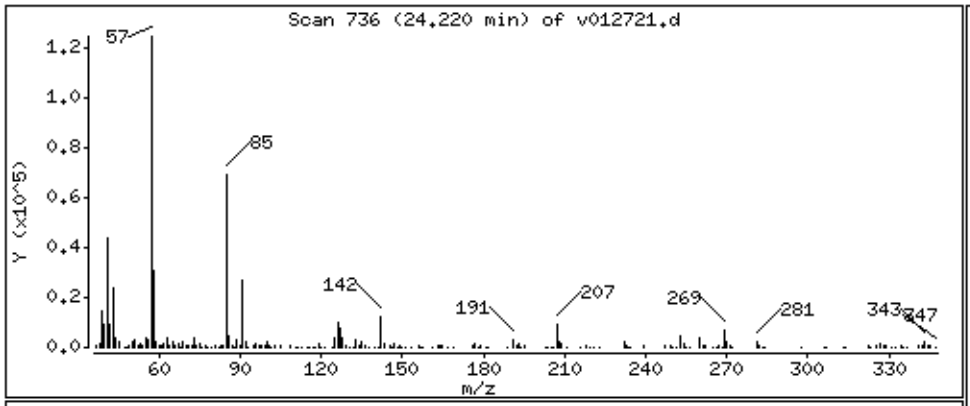
Operator: act

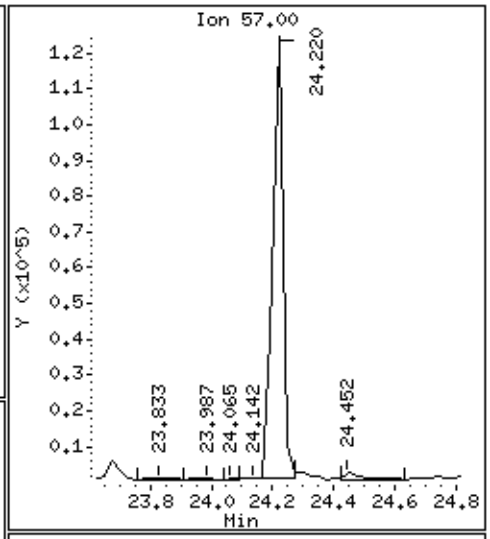
Column phase: RTx-624

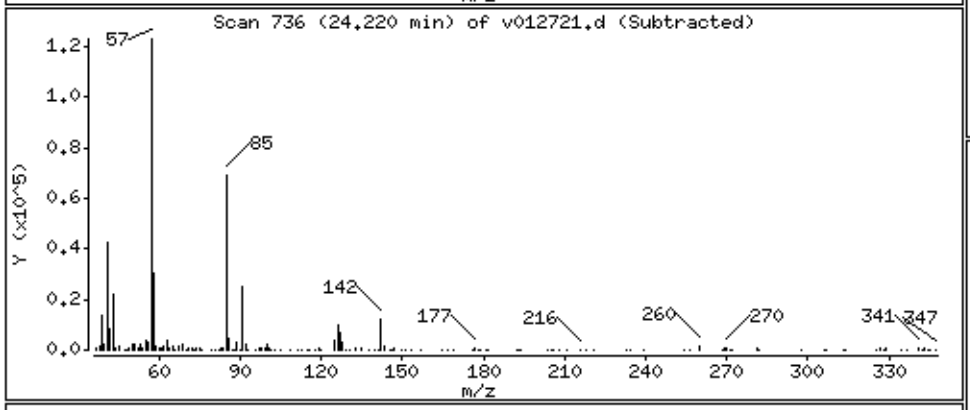
Column diameter: 0.32

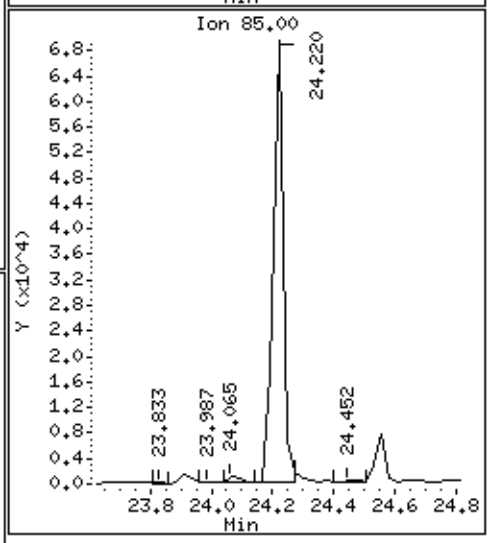
213 Diisobutyl Ketone

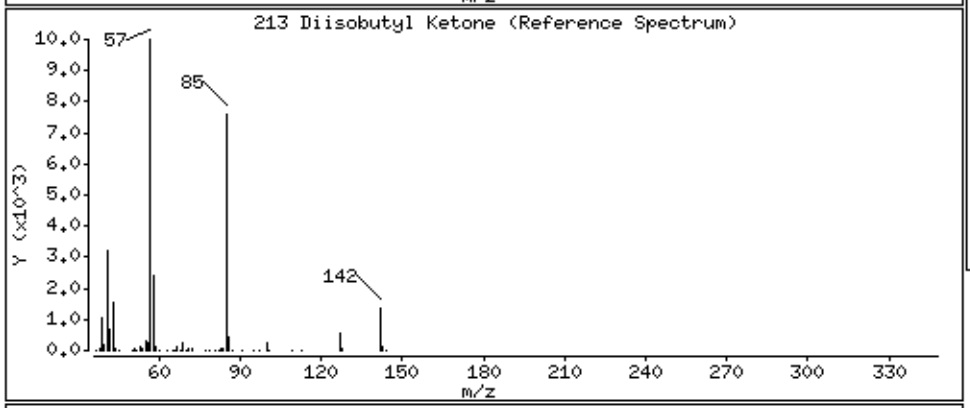
Concentration: 1.182 PPBV

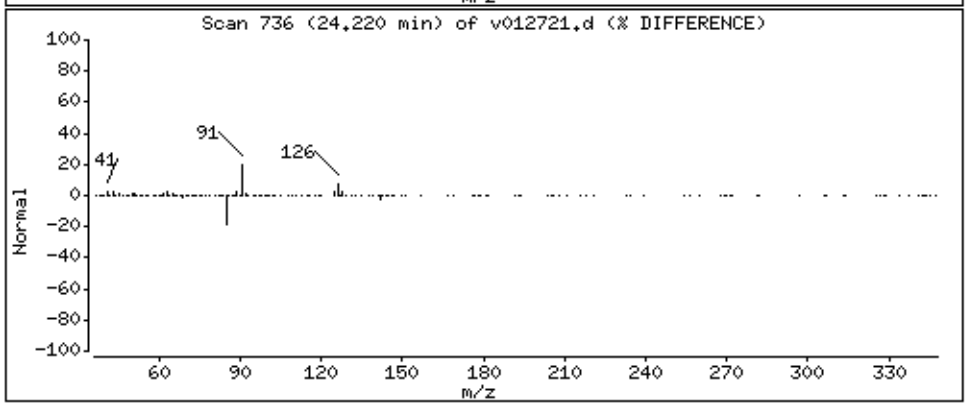












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

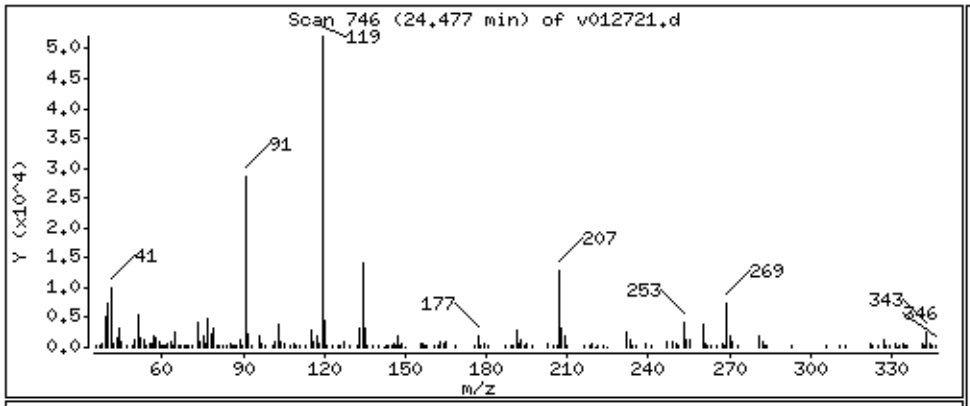
Operator: act

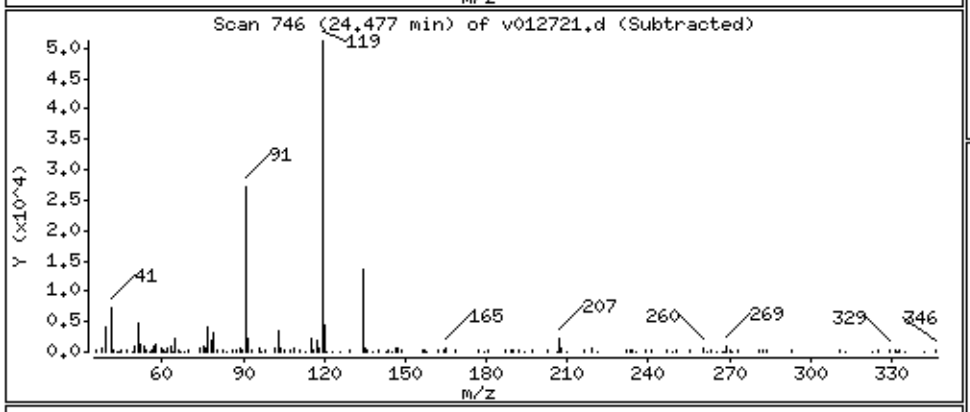
Column phase: RTx-624

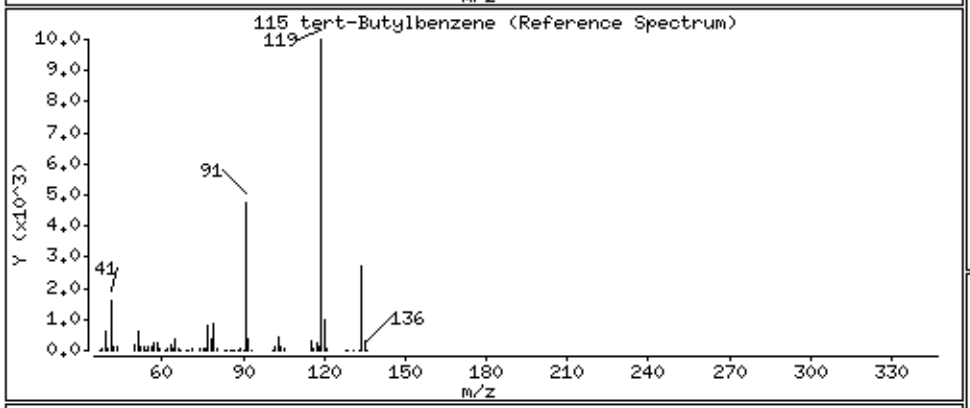
Column diameter: 0.32

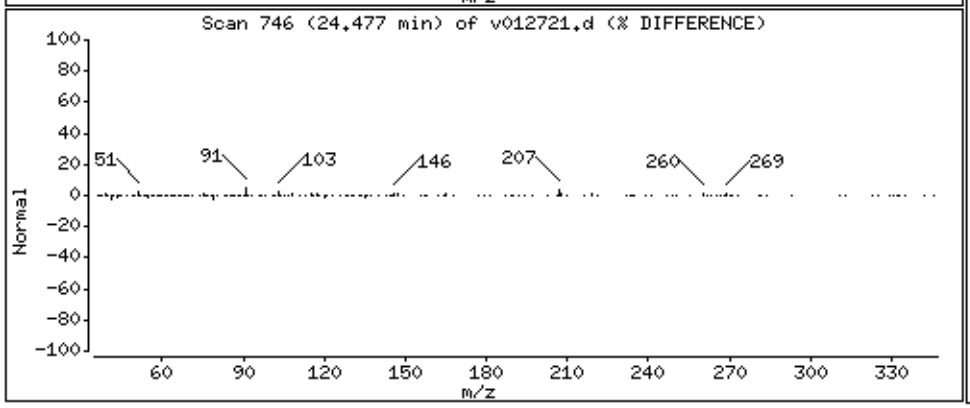
115 tert-Butylbenzene

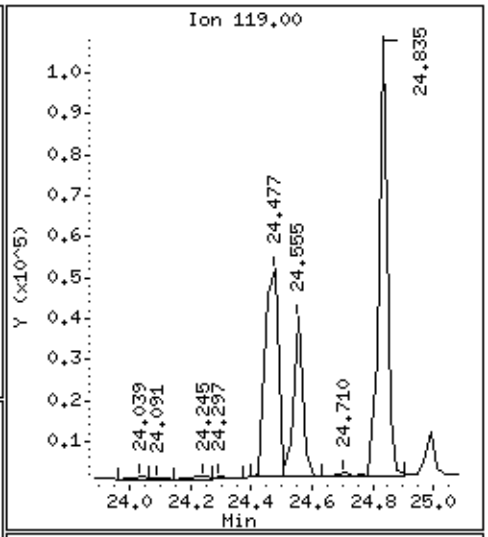
Concentration: 1.042 PPBV

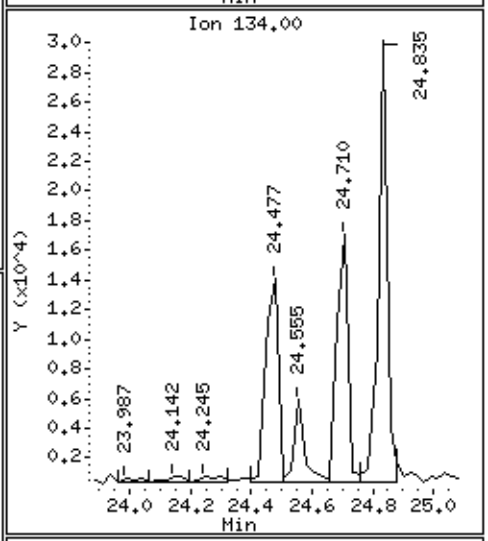


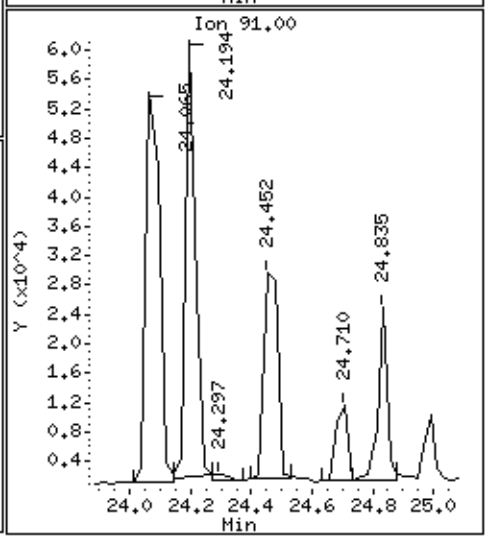












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

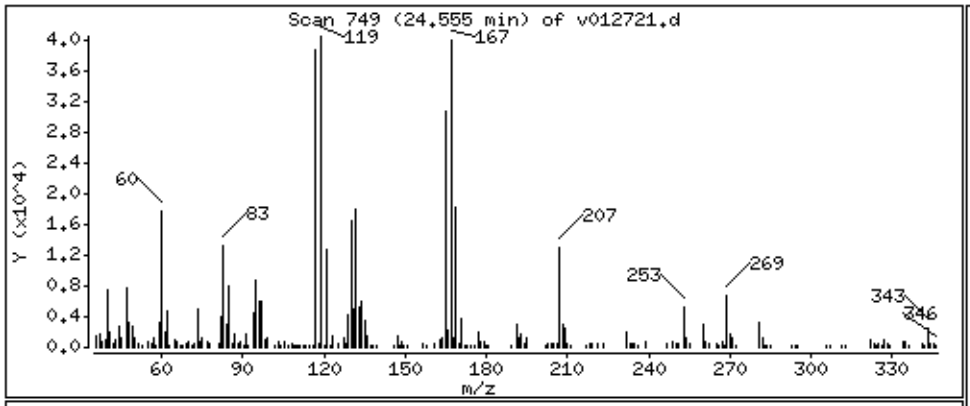
Operator: act

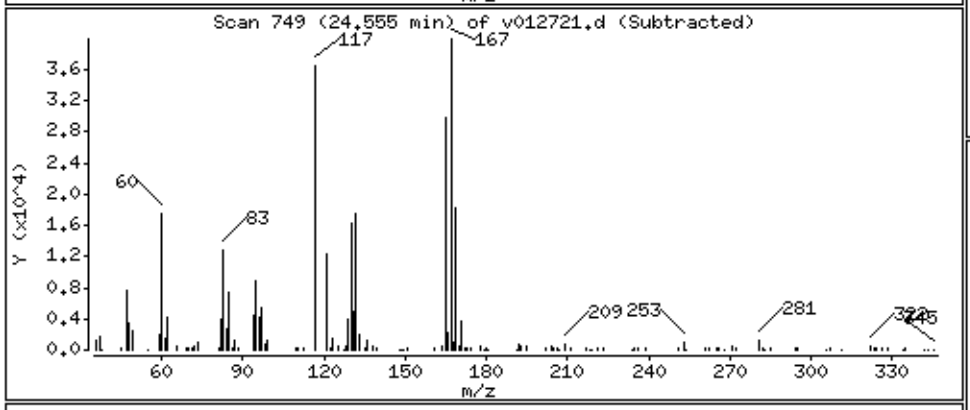
Column phase: RTx-624

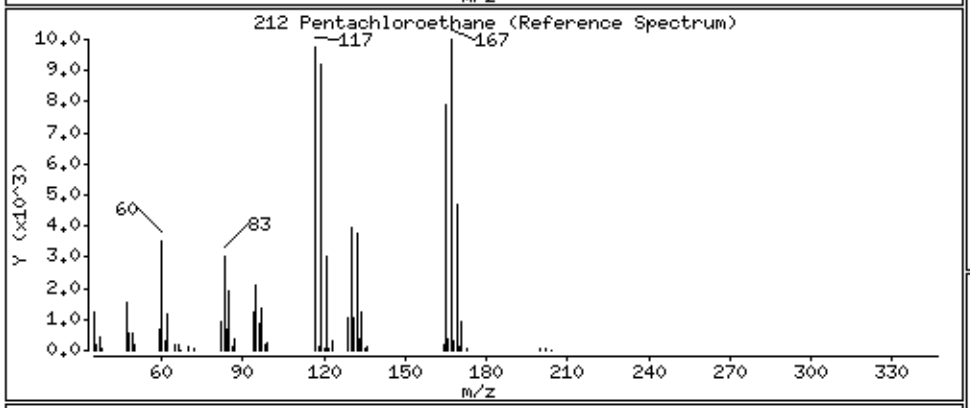
Column diameter: 0.32

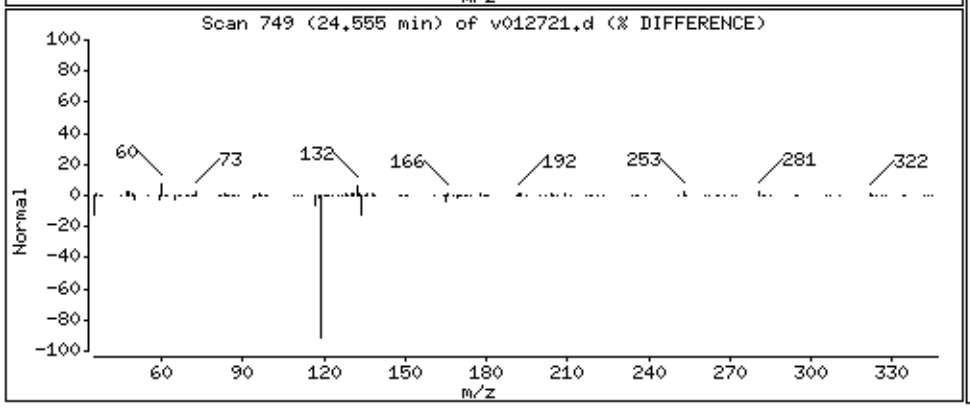
212 Pentachloroethane

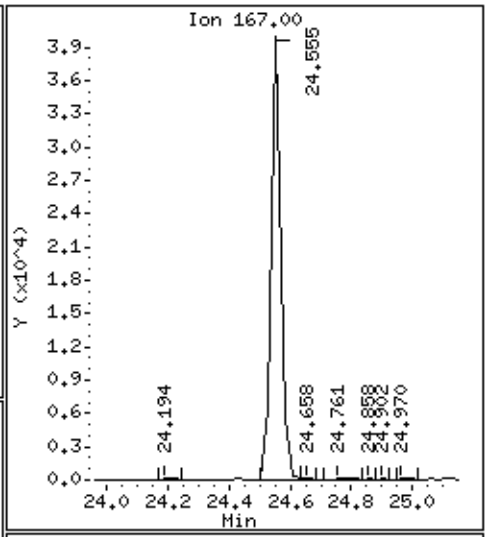
Concentration: 0.9285 PPBV

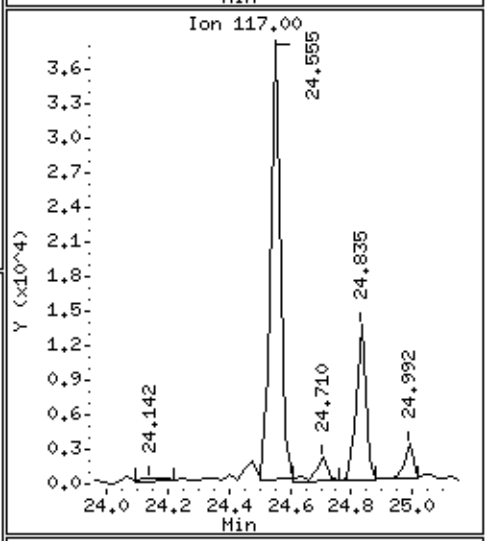


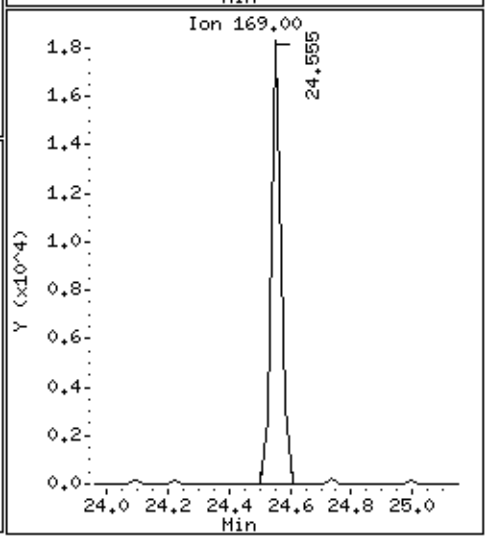












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

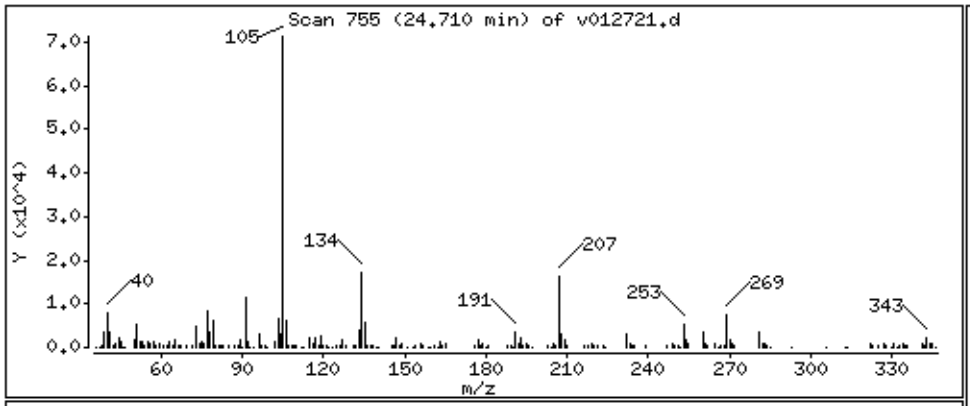
Operator: act

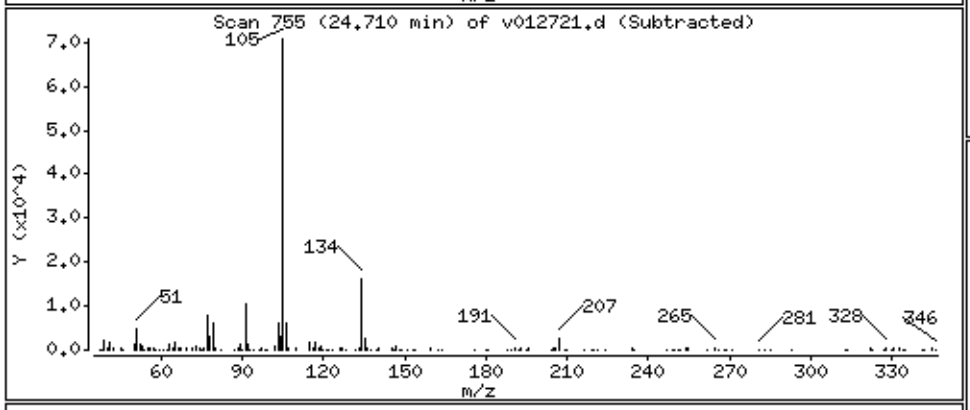
Column phase: RTx-624

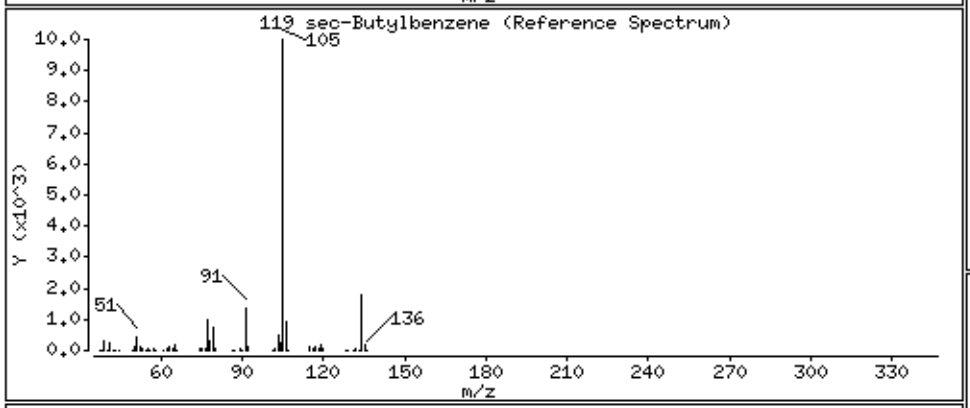
Column diameter: 0.32

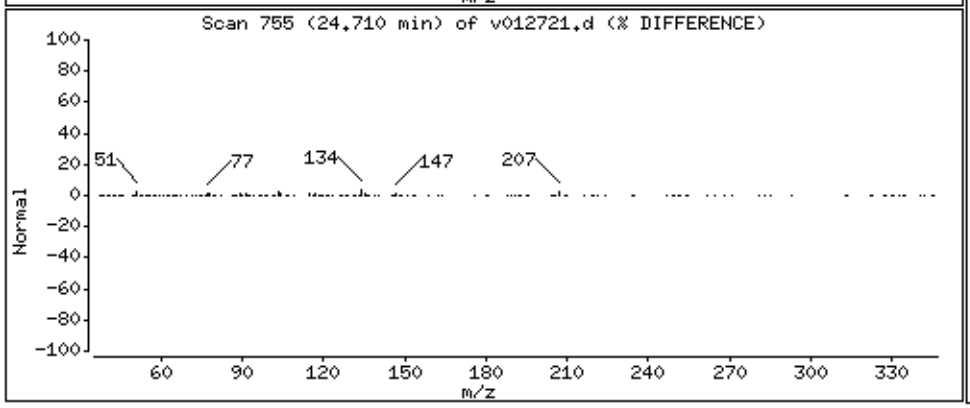
119 sec-Butylbenzene

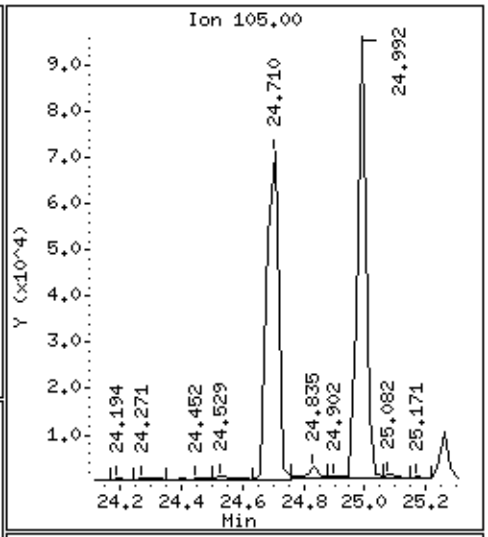
Concentration: 1.058 PPBV

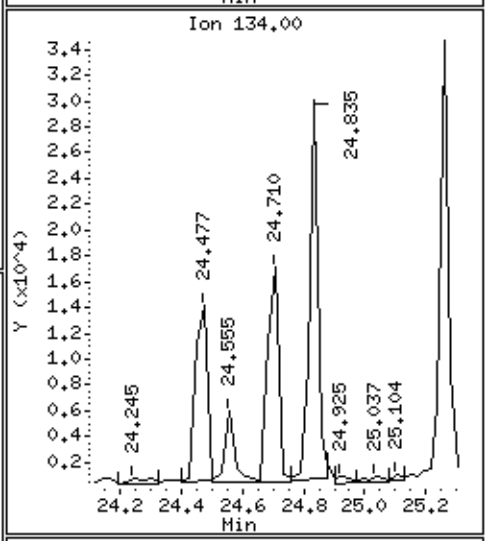


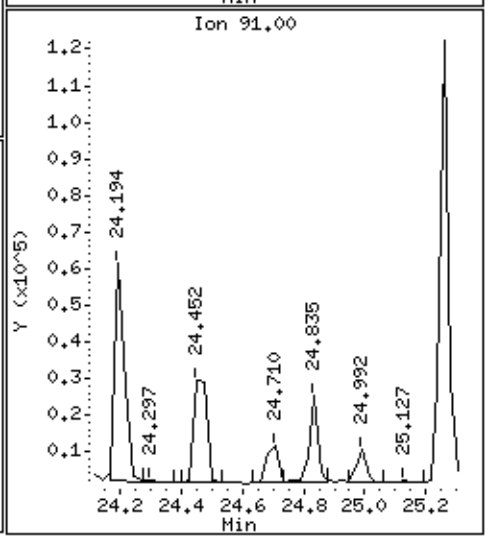












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

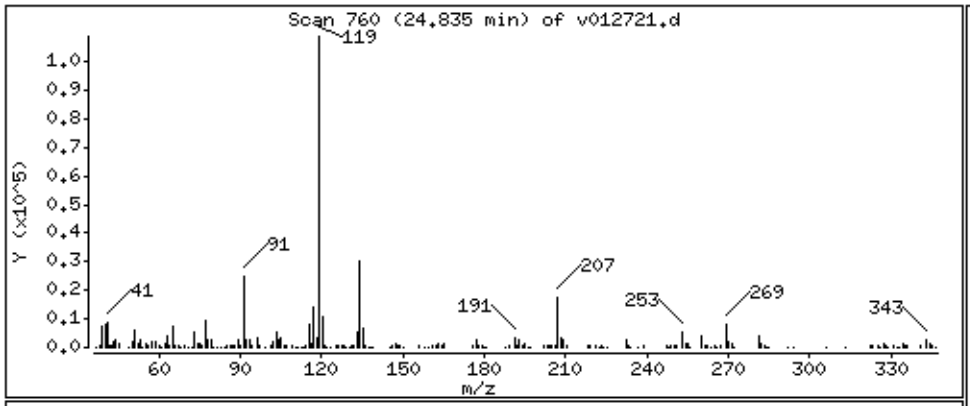
Operator: act

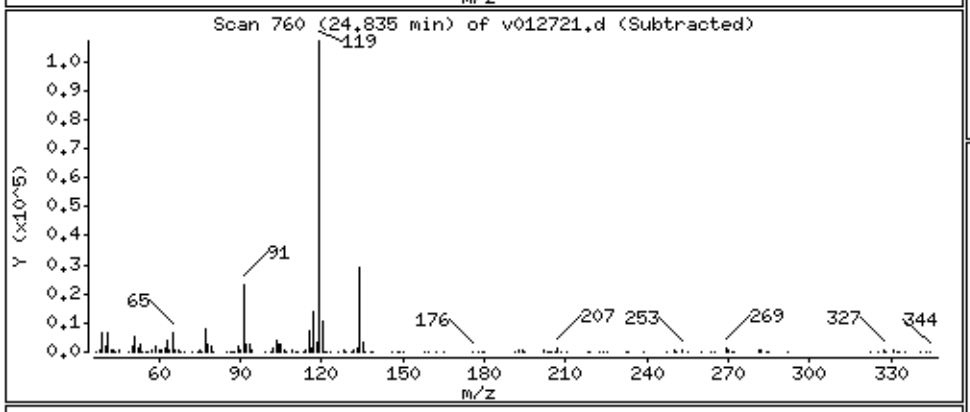
Column phase: RTx-624

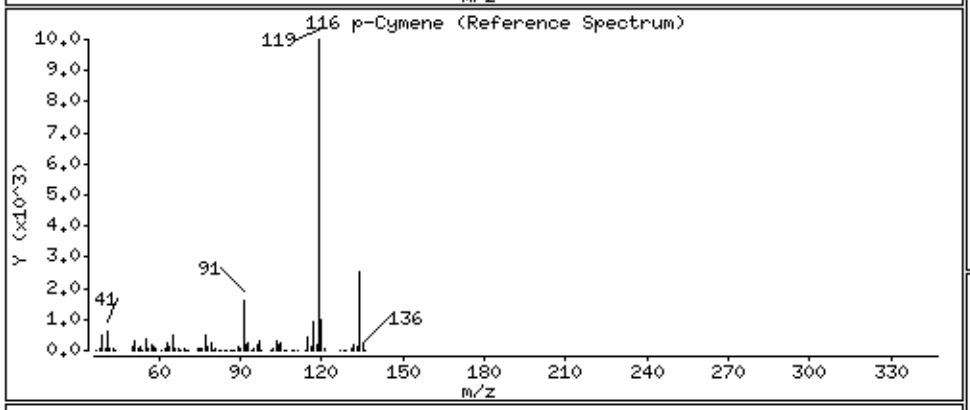
Column diameter: 0.32

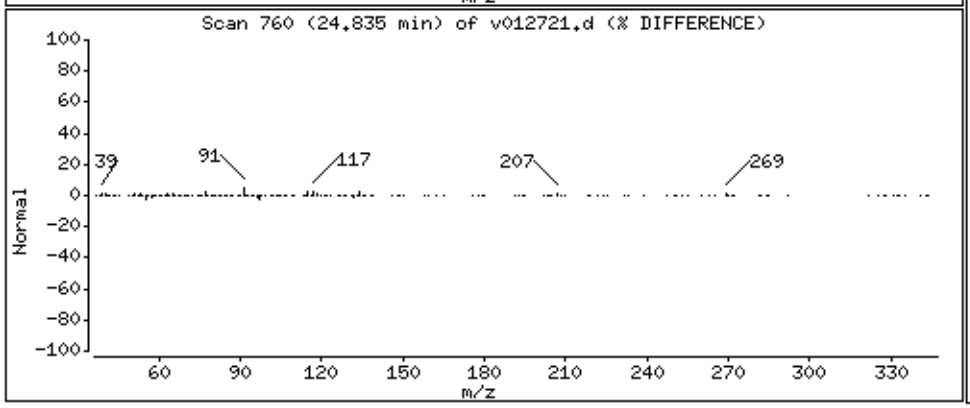
116 p-Cymene

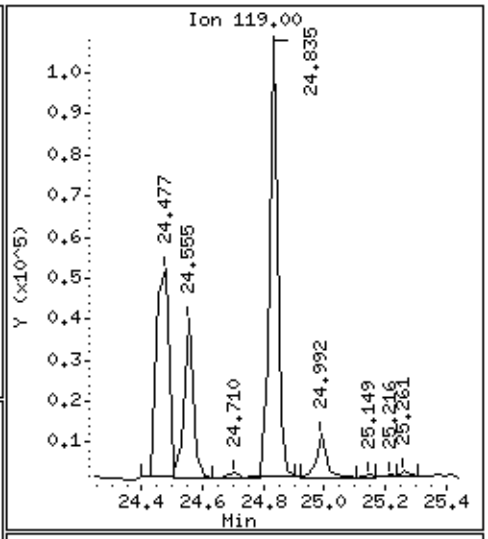
Concentration: 1.105 PPBV

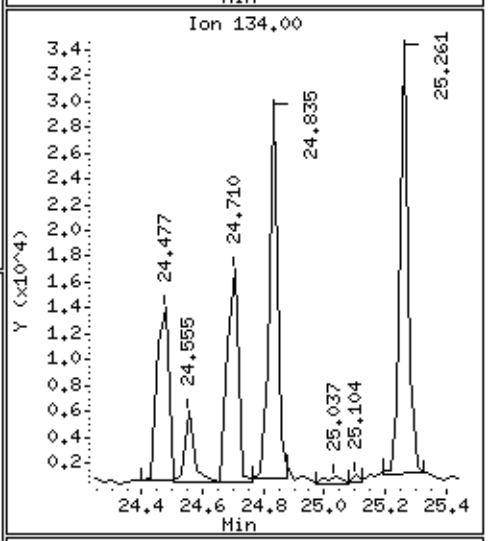


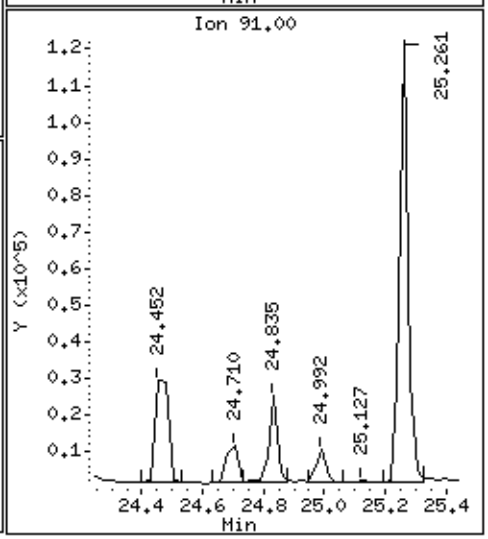












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

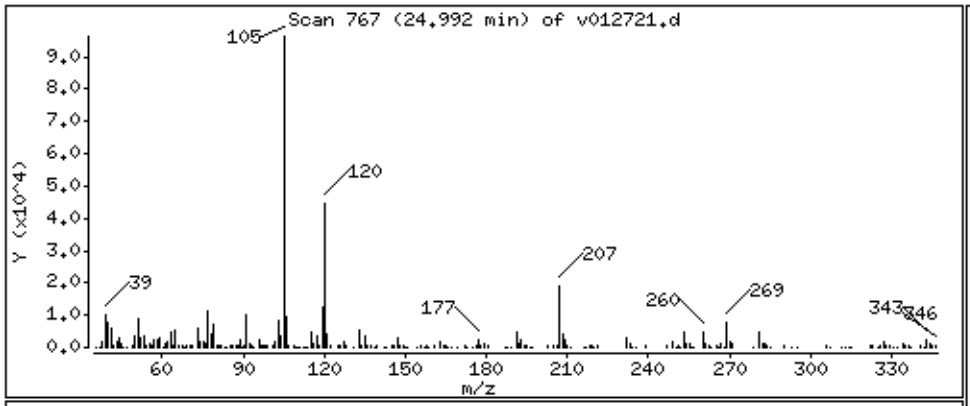
Operator: act

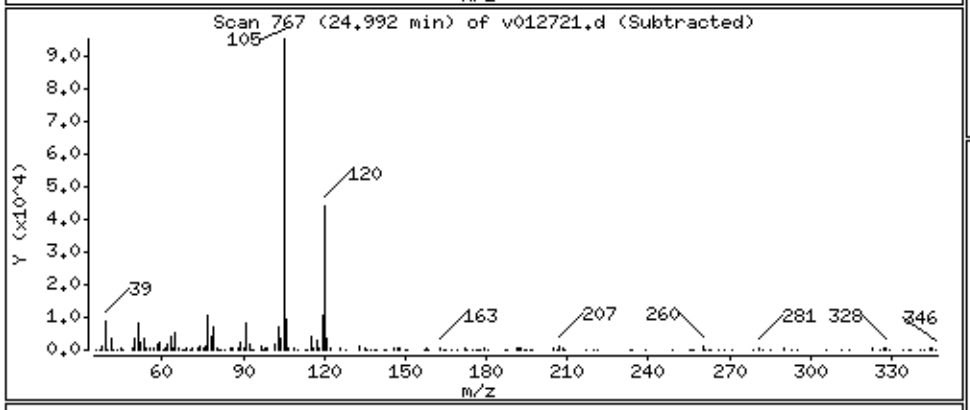
Column phase: RTx-624

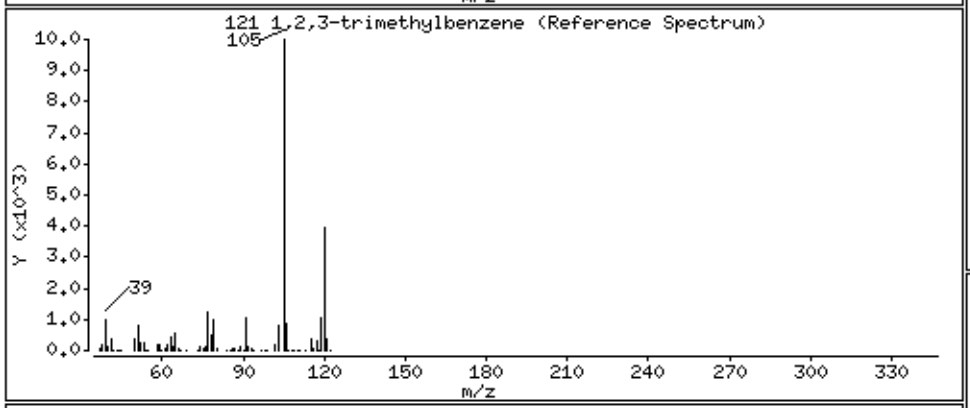
Column diameter: 0.32

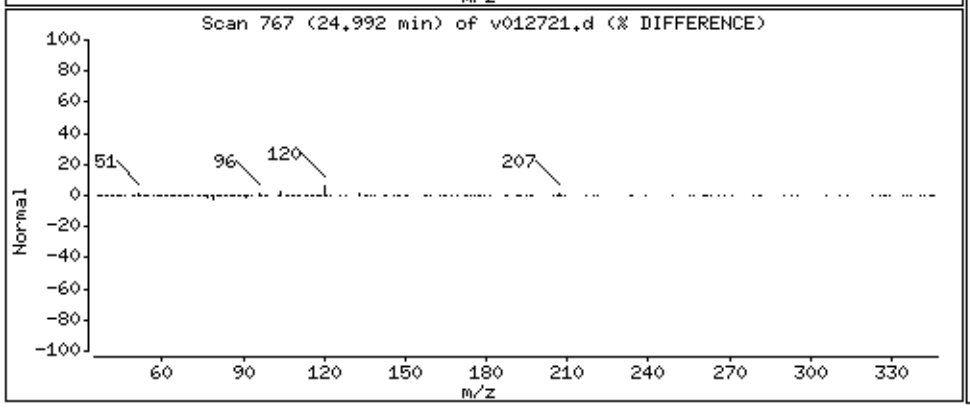
121 1,2,3-trimethylbenzene

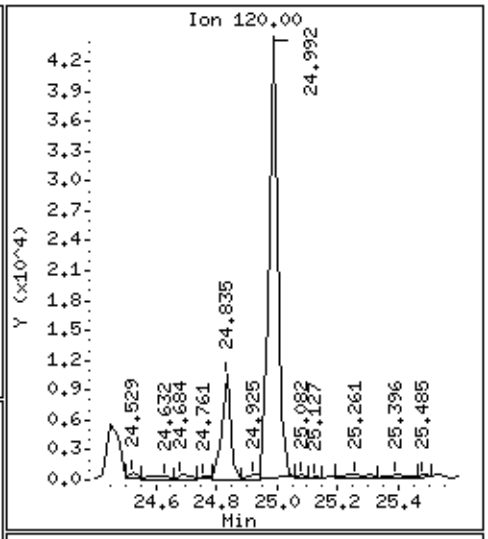
Concentration: 1.070 PPBV

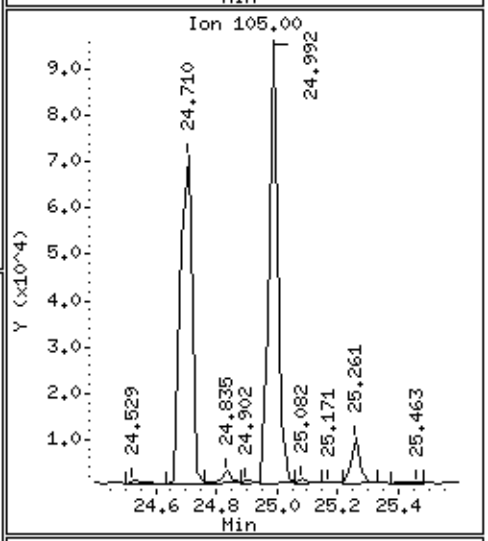


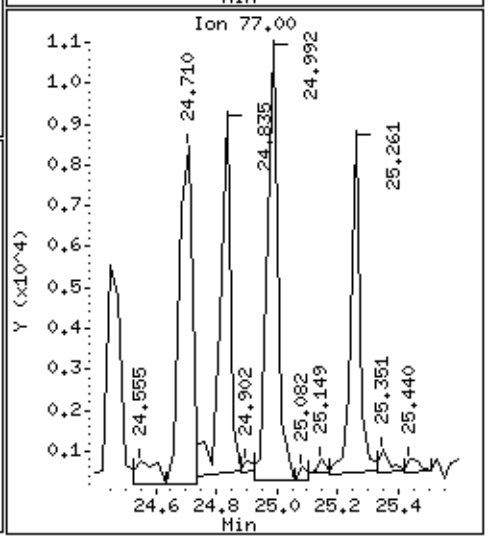












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

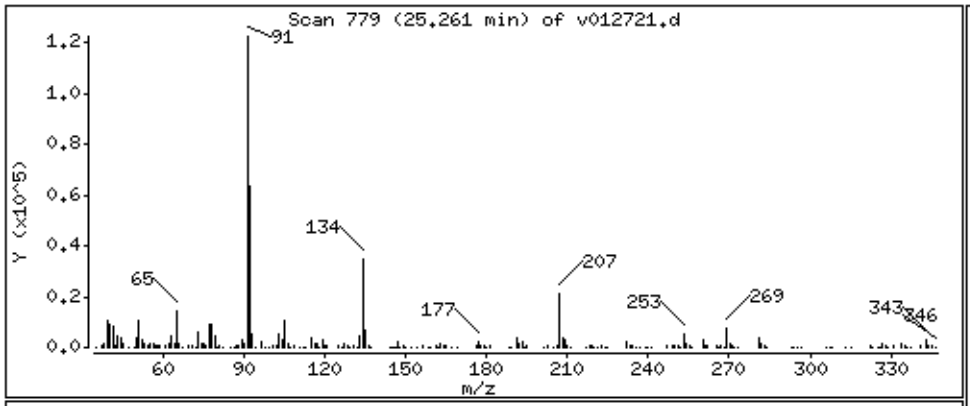
Operator: act

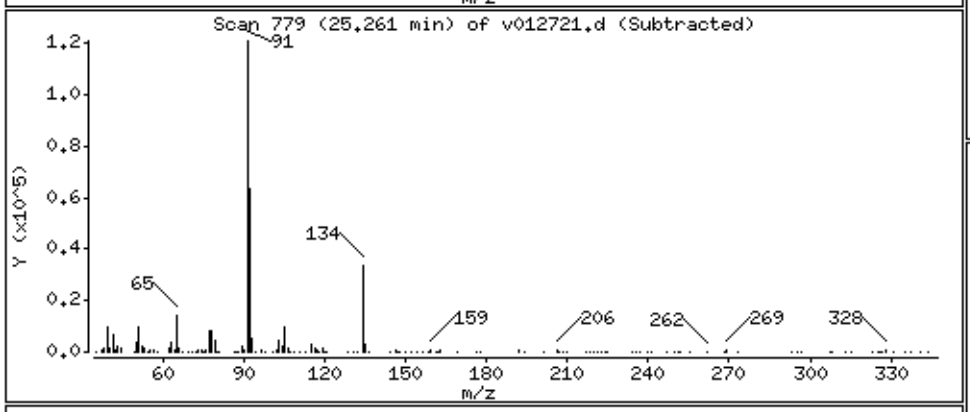
Column phase: RTx-624

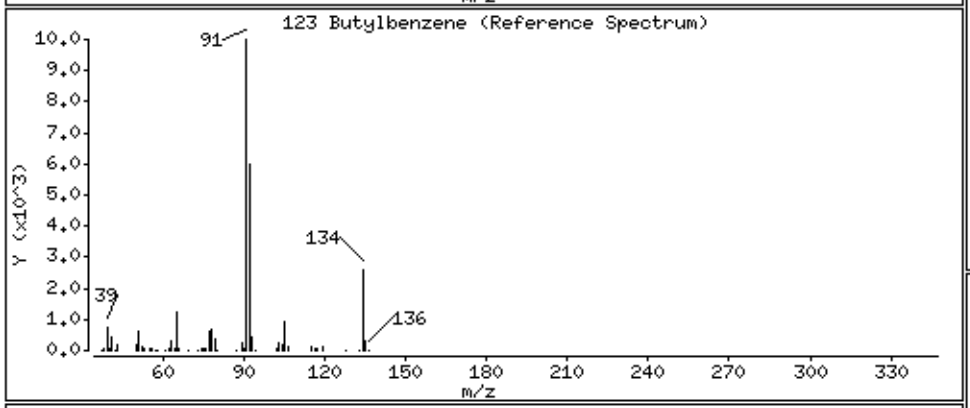
Column diameter: 0.32

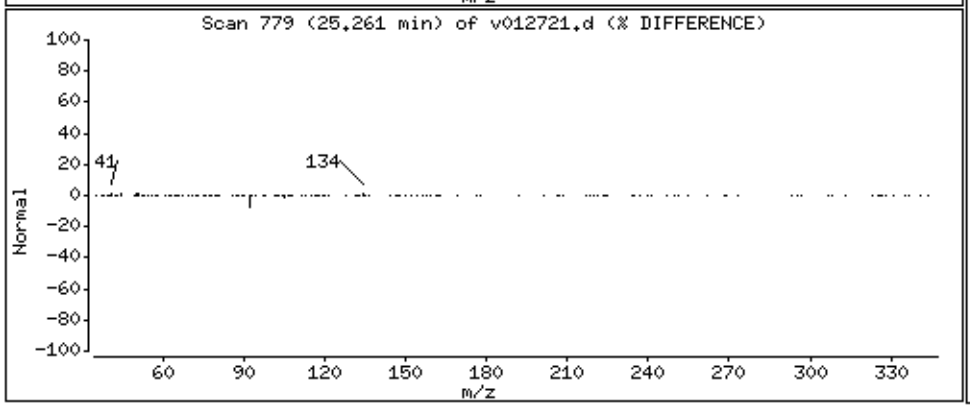
123 Butylbenzene

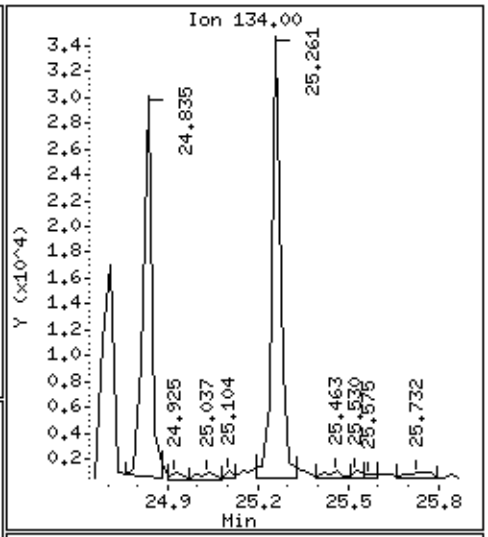
Concentration: 1.066 PPBV

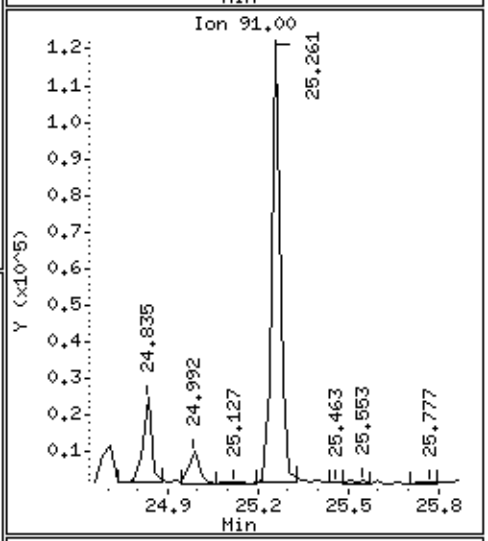


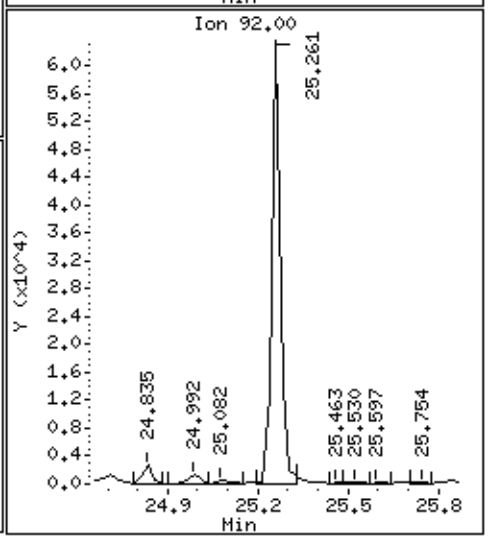












Data File: /chem/msdv.i/27Jan2015.b/v012721.d

Date : 28-JAN-2015 06:10

Client ID: LCS

Instrument: msdv.i

Sample Info: 50mL #2716-8

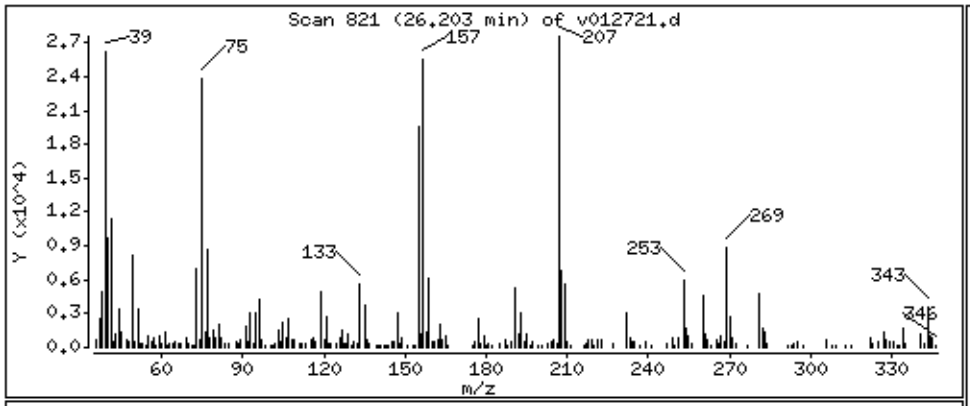
Operator: act

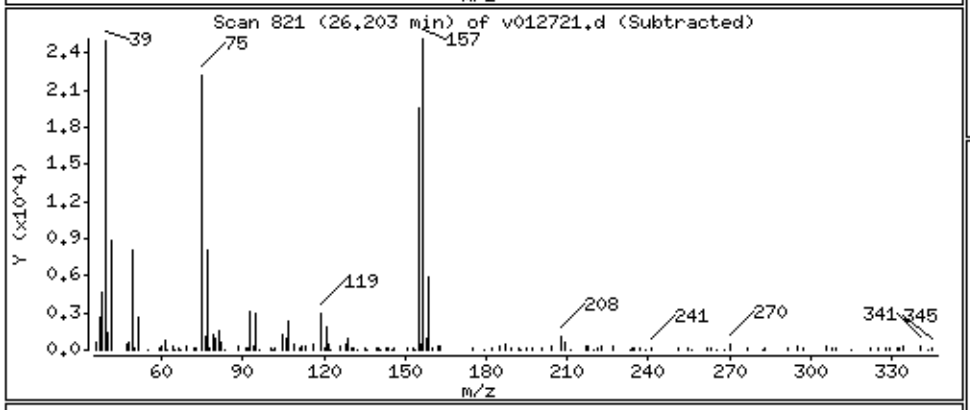
Column phase: RTx-624

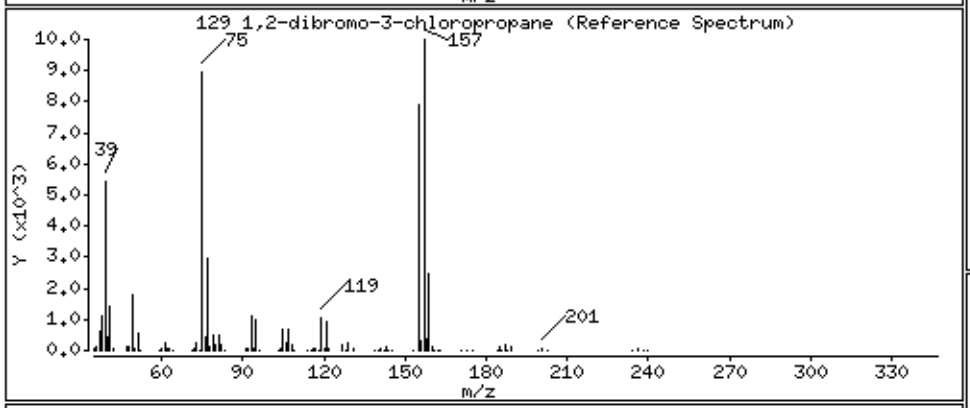
Column diameter: 0.32

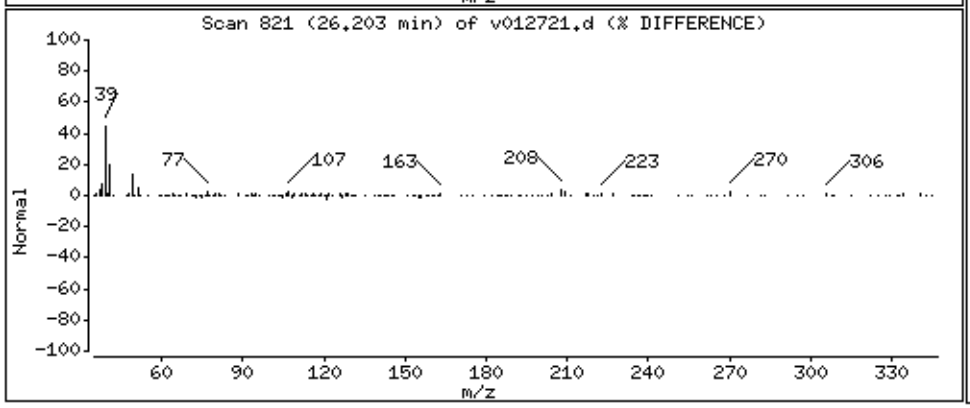
129 1,2-dibromo-3-chloropropane

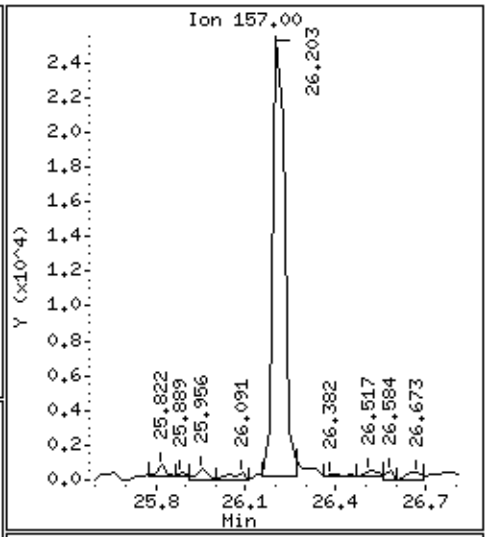
Concentration: 0.8020 PPBV

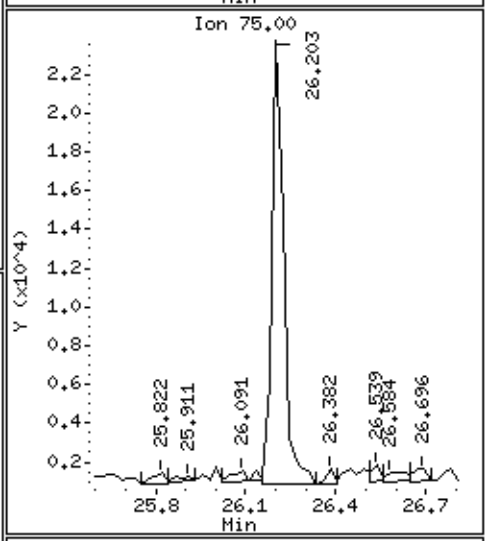


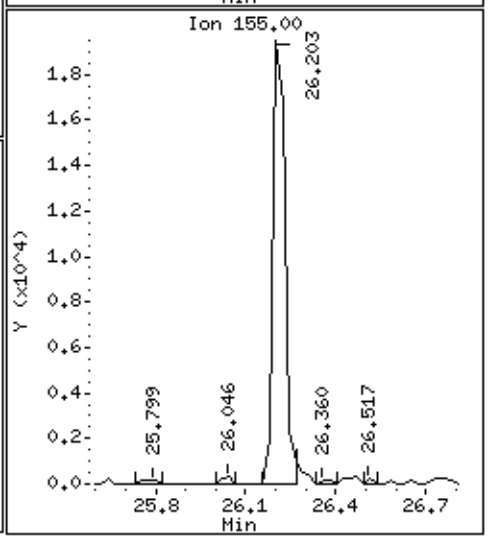












Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012306a.d
Lab Smp Id: Client Smp ID: Level 5
Inj Date : 23-JAN-2015 16:43
Operator : gh Inst ID: msdv.i
Smp Info : 250mL# 2716-09
Misc Info : 0.05ppbv (0.05ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123b.m
Meth Date : 27-Jan-2015 13:54 efinn Quant Type: ISTD
Cal Date : 23-JAN-2015 16:43 Cal File: v012306a.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SpRL.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	247194	5.00000		70.00- 130.00	100.00
15.934	15.934 (1.000)	128	190515			0.00- 30.00	77.07
15.934	15.934 (1.000)	49	510498			0.00- 30.00	206.52
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	1008912	5.00000		70.00- 130.00	100.00
17.305	17.305 (1.000)	88	158239			0.00- 30.00	15.68
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	806972	5.00000		70.00- 130.00	100.00
22.205	22.205 (1.000)	82	431536			0.00- 30.00	53.48
114 1,3,5-Trimethylbenzene						CAS #: 108-67-8	
24.116	24.116 (1.086)	105	15549	0.05000	0.06769	70.00- 130.00	100.00(a)
24.116	24.116 (1.086)	120	10692			0.00- 30.00	68.76
120 1,2,4-Trimethylbenzene						CAS #: 95-63-6	
24.529	24.529 (1.105)	105	13850	0.05000	0.06820	70.00- 130.00	100.00(a)
24.529	24.529 (1.105)	120	5812			0.00- 30.00	41.96

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012306a.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdv.i/23Jan2015.b/v15l0123b.m
Misc Info: 0.05ppbv (0.05ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 16:43
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	247194	148316	346072	247194	0.00
71 1,4-Difluorobenze	1008912	605347	1412477	1008912	0.00
92 Chlorobenzene-d5	806972	484183	1129761	806972	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012306a.d

Date : 23-JAN-2015 16:43

Client ID: Level 5

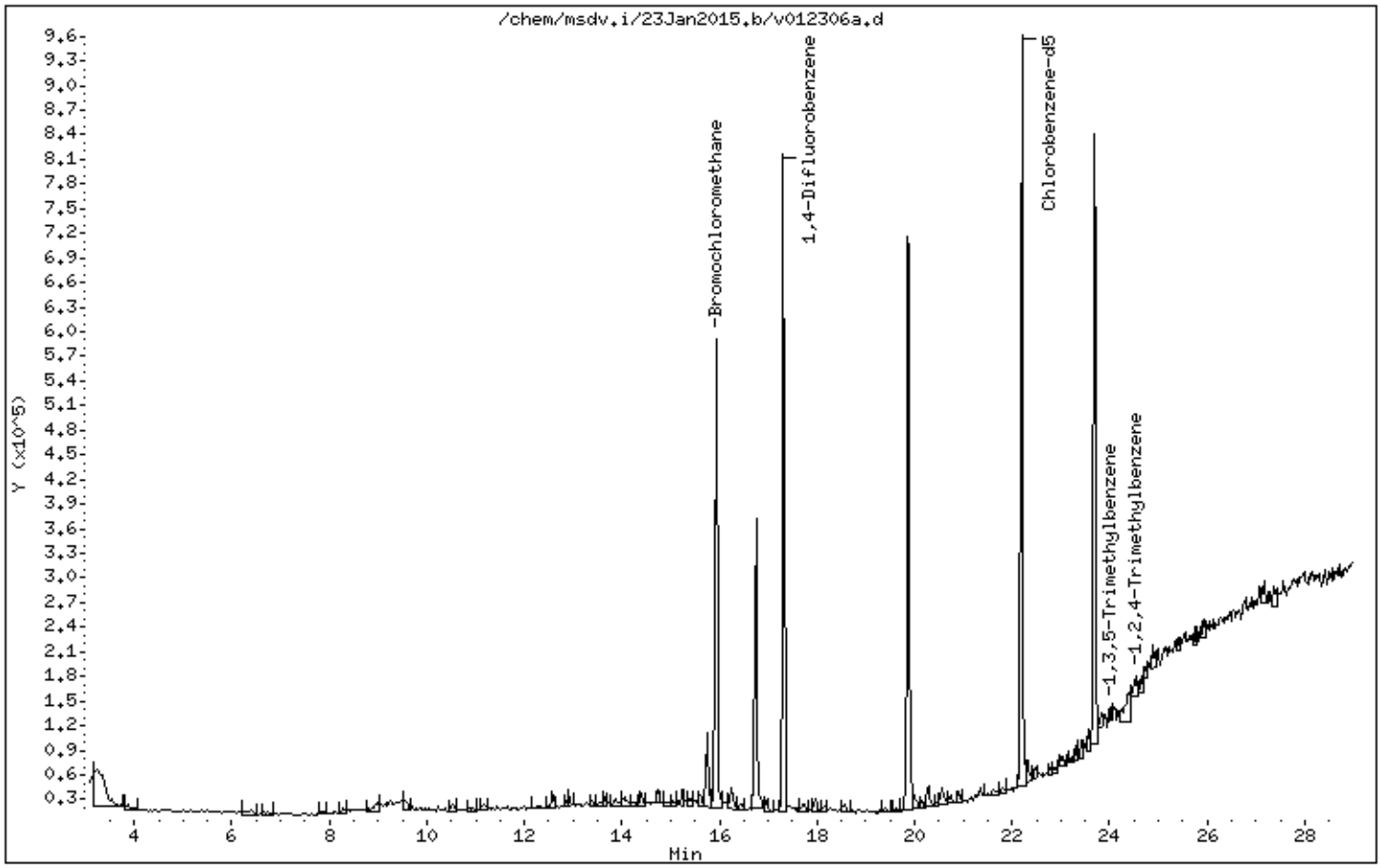
Instrument: msdv.i

Sample Info: 250mL# 2716-09

Operator: gh

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012306.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 23-JAN-2015 16:43
Operator : gh Inst ID: msdv.i
Smp Info : 250mL# 2716-09
Misc Info : 0.05ppbv (0.05ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:20 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 16:43 Cal File: v012306.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level05.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.934	15.934 (1.000)	130	247194	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	190515			48.09- 108.09	77.07
15.934	15.934 (1.000)	49	510498			196.04- 256.04	206.52
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	1008912	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	158239			0.00- 45.23	15.68
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	806972	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	431536			23.86- 83.86	53.48
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	374051	5.00000	4.868	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	180995			25.13- 85.13	48.39
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.856	19.879 (1.147)	98	945246	5.00000	5.004	80.00- 120.00	100.00
19.856	19.879 (1.147)	70	100297			0.00- 40.74	10.61

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

$  80 Toluene-d8 (continued)
 19.879  19.879 (1.149)   100    610773                    36.73-  96.73    64.62
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    365662 5.00000    4.889  80.00- 120.00   100.00
 23.678  23.704 (1.066)    95    458047                    95.17- 155.17   125.27
 23.704  23.704 (1.067)   176    335569                    64.74- 124.74    91.77
-------------------------------------------------------------------------------
    6 Freon 114                                     CAS #: 76-14-2
  6.750   6.713 (0.424)   135      8457 0.05000  0.05062  80.00- 120.00   100.00(a)
  6.750   6.713 (0.424)   137      1860                     2.34-  62.34    21.99
  6.750   6.713 (0.424)    85      9837                    93.53- 153.53   116.32
-------------------------------------------------------------------------------
   20 Trichlorofluoromethane/Fr11                   CAS #: 75-69-4
 11.184  11.184 (0.702)   101     10729 0.05000  0.05101  80.00- 120.00   100.00(a)
 11.160  11.184 (0.700)   103      8111                    34.40-  94.40    75.60
-------------------------------------------------------------------------------
   28 Freon 113                                     CAS #: 76-13-1
 12.568  12.569 (0.789)   151      7546 0.05000  0.05035  80.00- 120.00   100.00(a)
 12.568  12.569 (0.789)   153      4934                    33.38-  93.38    65.39
 12.568  12.569 (0.789)   101      7659                    85.19- 145.19   101.50
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                         CAS #: 71-55-6
 16.242  16.242 (1.019)    97     11494 0.05000  0.05498  80.00- 120.00   100.00(a)
 16.242  16.242 (1.019)    99      5642                    33.24-  93.24    49.09
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                          CAS #: 56-23-5
 16.458  16.458 (1.033)   119      7930 0.05000  0.04613  80.00- 120.00   100.00(a)
 16.458  16.458 (1.033)   117      7684                    67.96- 127.96    96.90
                   Sum of Peak Amounts =          0.0461
-------------------------------------------------------------------------------
   72 Trichloroethene                               CAS #: 79-01-6
 17.717  17.717 (1.024)   130      5362 0.05000  0.04516  80.00- 120.00   100.00(a)
 17.717  17.717 (1.024)    95      4878                    62.98- 122.98    90.97
 17.717  17.717 (1.024)    97      3201                    29.44-  89.44    59.70
-------------------------------------------------------------------------------
   77 Bromodichloromethane                          CAS #: 75-27-4
 18.568  18.568 (1.073)    83      8288 0.05000  0.04683  80.00- 120.00   100.00(a)
 18.568  18.568 (1.073)    85      4828                    33.73-  93.73    58.25
-------------------------------------------------------------------------------
   84 1,1,2-Trichloroethane                         CAS #: 79-00-5
 20.758  20.722 (0.935)    97      4593 0.05000  0.04531  80.00- 120.00   100.00(a)
 20.758  20.722 (0.935)    99      3151                    31.80-  91.80    68.60
 20.758  20.722 (0.935)    83      4249                    51.12- 111.12    92.51
-------------------------------------------------------------------------------
   86 Tetrachloroethene                             CAS #: 127-18-4
 20.901  20.901 (0.941)   166      9581 0.05000  0.05488  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
86 Tetrachloroethene (continued)							
20.901	20.901 (0.941)	129	6728			46.61- 106.61	70.22
20.901	20.901 (0.941)	131	5432			46.38- 106.38	56.70
89 Dibromochloromethane					CAS #: 124-48-1		
21.367	21.367 (0.962)	129	9264	0.05000	0.04590	80.00- 120.00	100.00(a)
21.367	21.367 (0.962)	127	9287			48.71- 108.71	100.25
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.619	21.583 (0.974)	107	7547	0.05000	0.04487	80.00- 120.00	100.00(a)
21.619	21.583 (0.974)	109	7921			63.80- 123.80	104.96
102 Bromoform					CAS #: 75-25-2		
23.331	23.331 (1.051)	173	8998	0.05000	0.04801	80.00- 120.00	100.00(a)
23.331	23.331 (1.051)	171	4333			22.04- 82.04	48.16
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	12867	0.05000	0.05682	80.00- 120.00	100.00(a)
23.833	23.833 (1.073)	85	8626			34.94- 94.94	67.04
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	11007	0.05000	0.05997	80.00- 120.00	100.00(a)
24.902	24.902 (1.121)	148	6184			32.42- 92.42	56.18
24.902	24.902 (1.121)	111	5206			8.90- 68.90	47.30
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.014	24.992 (1.127)	146	11583	0.05000	0.06405	80.00- 120.00	100.00(a)
25.014	24.992 (1.127)	148	6281			34.01- 94.01	54.23
25.014	24.992 (1.127)	111	4316			8.58- 68.58	37.26
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	11503	0.05000	0.06335	80.00- 120.00	100.00(a)
25.396	25.396 (1.144)	148	6563			32.53- 92.53	57.05
25.396	25.396 (1.144)	111	3866			10.66- 70.66	33.61
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	11638	0.05000	0.06902	80.00- 120.00	100.00(a)
27.077	27.077 (1.219)	182	10937			66.06- 126.06	93.98

QC Flag Legend

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

Report Date: 26-Jan-2015 08:35

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012306.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 0.05ppbv (0.05ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	247194	-2.40
71 1,4-Difluorobenze	1019789	611873	1427705	1008912	-1.07
92 Chlorobenzene-d5	833326	499996	1166656	806972	-3.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012306.d

Date : 23-JAN-2015 16:43

Client ID: Level 5

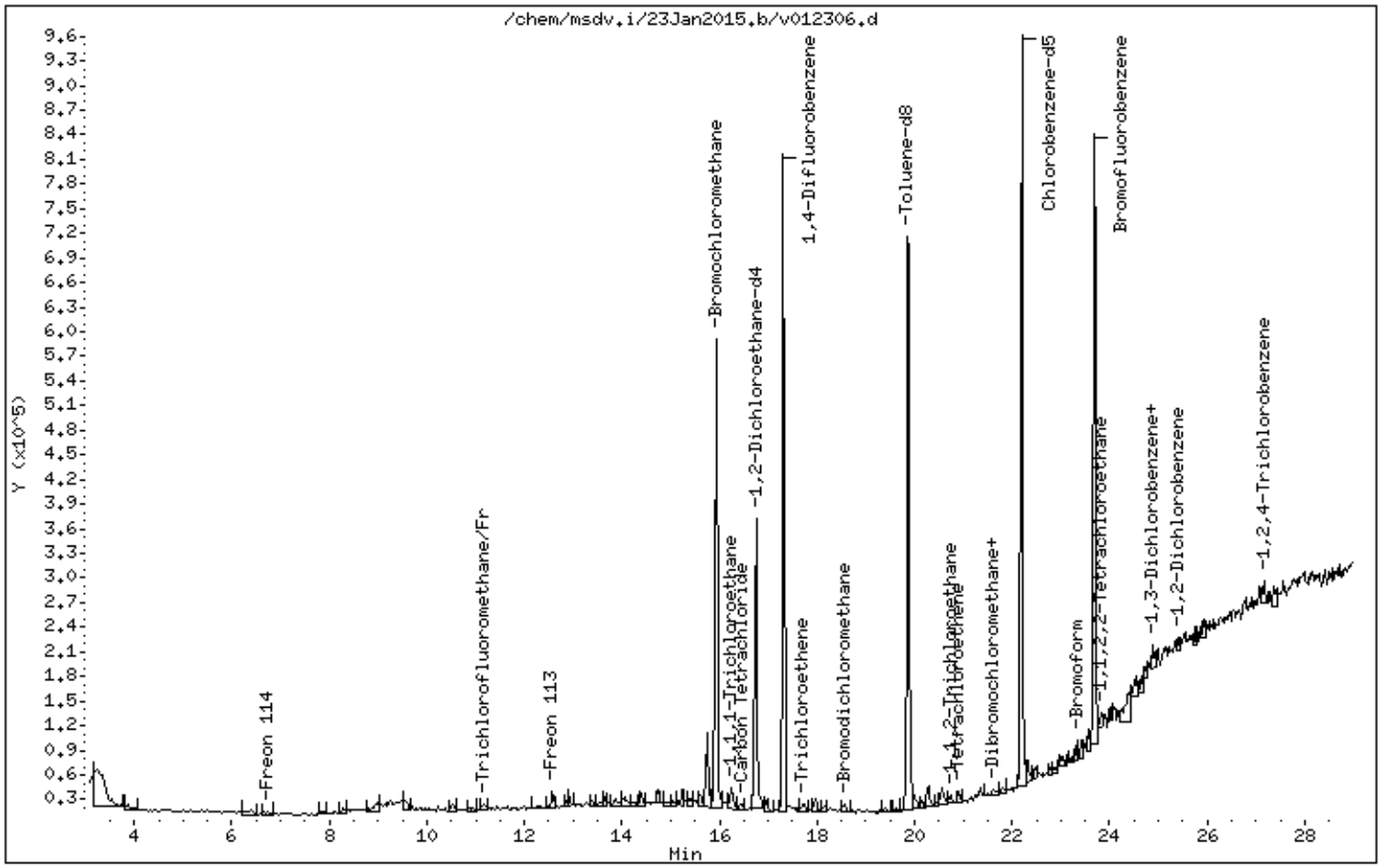
Instrument: msdv.i

Sample Info: 250mL# 2716-09

Operator: gh

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012307.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 23-JAN-2015 17:30
Operator : gh Inst ID: msdv.i
Smp Info : 25mL# 2716-10
Misc Info : 0.1ppbv (1.0ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:13 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 17:30 Cal File: v012307.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level#1.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.933	15.933 (1.000)	130	247181	5.00000		80.00- 120.00	100.00
15.933	15.933 (1.000)	128	200404			47.40- 107.40	81.08
15.933	15.933 (1.000)	49	534381			167.26- 227.26	216.19
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	992946	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	156096			0.00- 46.18	15.72
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	788234	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	433113			25.73- 85.73	54.95
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.756	16.756 (1.052)	65	370457	5.00000	4.880	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	175093			26.63- 86.63	47.26
$ 80 Toluene-d8						CAS #: 2037-26-5	
19.879	19.879 (1.149)	98	929298	5.00000	4.999	80.00- 120.00	100.00
19.856	19.856 (1.147)	70	102282			0.00- 40.74	11.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)							
19.879	19.879 (1.149)	100	607461			33.76- 93.76	65.37
$ 106 Bromofluorobenzene					CAS #: 460-00-4		
23.704	23.704 (1.067)	174	340324	5.00000	4.767	80.00- 120.00	100.00
23.678	23.678 (1.066)	95	437914			108.04- 168.04	128.68
23.704	23.704 (1.067)	176	329237			67.04- 127.04	96.74
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.240	5.240 (0.329)	85	23214	0.10000	0.1084	80.00- 120.00	100.00
5.202	5.202 (0.326)	87	5505			2.42- 62.42	23.71
6 Freon 114					CAS #: 76-14-2		
6.713	6.713 (0.421)	135	18447	0.10000	0.1067	80.00- 120.00	100.00
6.713	6.713 (0.421)	137	5483			1.35- 61.35	29.72
6.713	6.713 (0.421)	85	23419			100.64- 160.64	126.95
8 Chloromethane					CAS #: 74-87-3		
7.052	7.052 (0.443)	50	16414	0.10000	0.1142	80.00- 120.00	100.00
7.052	7.052 (0.443)	52	6130			2.12- 62.12	37.35
10 Vinyl Chloride					CAS #: 75-01-4		
8.008	8.008 (0.503)	62	10651	0.10000	0.1032	80.00- 120.00	100.00
8.008	8.008 (0.503)	64	3645			0.00- 59.60	34.22
11 1,3-Butadiene					CAS #: 106-99-0		
8.288	8.288 (0.520)	54	11099	0.10000	0.1075	80.00- 120.00	100.00
8.288	8.288 (0.520)	39	11285			66.22- 126.22	101.68
12 Bromomethane					CAS #: 74-83-9		
9.834	9.834 (0.617)	94	6526	0.10000	0.1001	80.00- 120.00	100.00
9.834	9.834 (0.617)	96	6771			63.75- 123.75	103.75
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.183	11.183 (0.702)	101	25027	0.10000	0.1119	80.00- 120.00	100.00
11.159	11.159 (0.700)	103	16191			35.13- 95.13	64.69
28 Freon 113					CAS #: 76-13-1		
12.568	12.568 (0.789)	151	16376	0.10000	0.1060	80.00- 120.00	100.00
12.568	12.568 (0.789)	153	11972			33.83- 93.83	73.11
12.596	12.596 (0.791)	101	20196			86.15- 146.15	123.33
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.568	12.568 (0.789)	98	4917	0.10000	0.09847	80.00- 120.00	100.00(a)
12.568	12.568 (0.789)	61	18830			302.86- 362.86	382.96
12.568	12.568 (0.789)	96	10841			132.09- 192.09	220.48

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

   35 3-Chloroprene                                  CAS #: 107-05-1
 13.392  13.392 (0.841)    76      3493 0.10000   0.1026  80.00- 120.00   100.00(a)
 13.392  13.392 (0.841)    41     15166                  401.48- 461.48   434.18
-------------------------------------------------------------------------------
   37 Methylene Chloride                             CAS #: 75-09-2
 13.640  13.640 (0.856)    84      8049 0.10000   0.1064  80.00- 120.00   100.00(a)
 13.667  13.667 (0.858)    49     16929                  177.28- 237.28   210.32
 13.640  13.640 (0.856)    51      6341                   32.93-  92.93    78.78
-------------------------------------------------------------------------------
   39 MTBE                                           CAS #: 1634-04-4
 14.024  14.024 (0.880)    73     23958 0.10000   0.1034  80.00- 120.00   100.00
 14.024  14.024 (0.880)    57     10576                    3.26-  63.26    44.14
 14.024  14.024 (0.880)    41     11681                    2.63-  62.63    48.76
-------------------------------------------------------------------------------
   40 trans-1,2-Dichloroethene                       CAS #: 156-60-5
 14.051  14.051 (0.882)    98      4816 0.10000  0.09394  80.00- 120.00   100.00(a)
 14.051  14.051 (0.882)    61     17742                  262.11- 322.11   368.40
 14.051  14.051 (0.882)    96     11123                  128.28- 188.28   230.96
-------------------------------------------------------------------------------
   43 Hexane                                         CAS #: 110-54-3
 14.381  14.381 (0.903)    57     21718 0.10000   0.1039  80.00- 120.00   100.00
 14.381  14.381 (0.903)    43     19517                   36.69-  96.69    89.87
 14.381  14.381 (0.903)    86      2375                    0.00-  41.09    10.94
-------------------------------------------------------------------------------
   46 1,1-Dichloroethane                             CAS #: 75-34-3
 14.765  14.765 (0.927)    63     20695 0.10000   0.1051  80.00- 120.00   100.00
 14.765  14.765 (0.927)    65      5906                    0.34-  60.34    28.54
-------------------------------------------------------------------------------
   50 cis-1,2-Dichloroethene                         CAS #: 156-59-2
 15.592  15.592 (0.979)    98      7076 0.10000   0.1098  80.00- 120.00   100.00
 15.592  15.592 (0.979)    61     18393                  232.32- 292.32   259.93
 15.592  15.592 (0.979)    96     14772                  127.66- 187.66   208.76
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83     17836 0.10000   0.1014  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85     11845                   34.22-  94.22    66.41
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97     21090 0.10000   0.1006  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99     14817                   34.05-  94.05    70.26
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.242  16.242 (1.019)    84     14484 0.10000   0.1108  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56     26034                  145.90- 205.90   179.74
 16.242  16.242 (1.019)    41     21137                   62.61- 122.61   145.93
-------------------------------------------------------------------------------
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```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   59 Carbon Tetrachloride                          CAS #: 56-23-5
 16.457  16.457 (1.033)   119     18224 0.10000   0.1039  80.00- 120.00   100.00
 16.457  16.457 (1.033)   117     17945                   68.83- 128.83    98.47
                   Sum of Peak Amounts =           0.104
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                        CAS #: 540-84-1
 16.728  16.728 (1.050)    56     26005 0.10000   0.1109  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57     68951                  271.70- 331.70   265.15
 16.728  16.728 (1.050)    41     21375                   52.41- 112.41    82.20
-------------------------------------------------------------------------------
   64 Benzene                                       CAS #: 71-43-2
 16.756  16.756 (0.968)    78     31970 0.10000   0.1145  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77      7863                    0.00-  53.49    24.59
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                            CAS #: 107-06-2
 16.865  16.865 (0.975)    62     16675 0.10000   0.1073  80.00- 120.00   100.00
 16.865  16.865 (0.975)    64      4845                    0.00-  59.91    29.06
-------------------------------------------------------------------------------
   69 Heptane                                       CAS #: 142-82-5
 16.975  16.975 (0.981)    57     13157 0.10000   0.1046  80.00- 120.00   100.00
 16.975  16.975 (0.981)   100      2941                    0.00-  53.77    22.35
 16.975  16.975 (0.981)    43     26942                  172.35- 232.35   204.77
-------------------------------------------------------------------------------
   72 Trichloroethene                               CAS #: 79-01-6
 17.716  17.716 (1.024)   130     13684 0.10000   0.1108  80.00- 120.00   100.00
 17.716  17.716 (1.024)    95     12543                   65.17- 125.17    91.66
 17.716  17.716 (1.024)    97      9251                   31.34-  91.34    67.60
-------------------------------------------------------------------------------
   74 1,2-Dichloropropane                           CAS #: 78-87-5
 18.156  18.156 (1.049)    63     12685 0.10000   0.1022  80.00- 120.00   100.00
 18.156  18.156 (1.049)    62     10146                   43.25- 103.25    79.98
 18.156  18.156 (1.049)    41     12524                   33.86-  93.86    98.73
-------------------------------------------------------------------------------
   75 1,4-Dioxane                                   CAS #: 123-91-1
 18.266  18.266 (1.056)    88      9414 0.10000   0.1212  80.00- 120.00   100.00
 18.293  18.293 (1.057)    58      8700                   73.29- 133.29    92.42
 18.293  18.293 (1.057)    57      3751                    3.70-  63.70    39.84
-------------------------------------------------------------------------------
   77 Bromodichloromethane                          CAS #: 75-27-4
 18.568  18.568 (1.073)    83     19498 0.10000   0.1076  80.00- 120.00   100.00
 18.568  18.568 (1.073)    85     12993                   33.07-  93.07    66.64
-------------------------------------------------------------------------------
   78 cis-1,3-Dichloropropene                       CAS #: 10061-01-5
 19.408  19.408 (1.122)    75     15814 0.10000   0.1010  80.00- 120.00   100.00
 19.408  19.408 (1.122)    77      4796                    0.97-  60.97    30.33
 19.408  19.408 (1.122)    39     10464                   40.23- 100.23    66.17
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.610	19.610 (1.133)	43	36526	0.10000	0.1052	80.00- 120.00	100.00
19.632	19.632 (1.135)	58	12403			6.07- 66.07	33.96
19.632	19.632 (1.135)	85	2155			0.00- 41.52	5.90
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	31539	0.10000	0.1059	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	17658			28.55- 88.55	55.99
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	14599	0.10000	0.1049	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	8825			1.39- 61.39	60.45
20.435	20.435 (0.920)	39	9740			36.57- 96.57	66.72
84 1,1,2-Trichloroethane					CAS #: 79-00-5		
20.757	20.757 (0.935)	97	12011	0.10000	0.1133	80.00- 120.00	100.00
20.757	20.757 (0.935)	99	8407			32.18- 92.18	69.99
20.757	20.757 (0.935)	83	10260			54.91- 114.91	85.42
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	17111	0.10000	0.1002	80.00- 120.00	100.00
20.901	20.901 (0.941)	129	11661			50.27- 110.27	68.15
20.901	20.901 (0.941)	131	15105			49.16- 109.16	88.28
89 Dibromochloromethane					CAS #: 124-48-1		
21.367	21.367 (0.962)	129	21757	0.10000	0.1067	80.00- 120.00	100.00
21.367	21.367 (0.962)	127	16981			46.63- 106.63	78.05
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.582	21.582 (0.972)	107	18822	0.10000	0.1092	80.00- 120.00	100.00
21.582	21.582 (0.972)	109	18073			62.25- 122.25	96.02
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	28000	0.10000	0.1082	80.00- 120.00	100.00
22.233	22.233 (1.001)	114	7926			1.87- 61.87	28.31
22.233	22.233 (1.001)	77	24302			27.42- 87.42	86.79
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	13203	0.10000	0.1085	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	32548			258.78- 318.78	246.52
96 m,p-Xylene					CAS #: 108-38-3		
22.480	22.480 (1.012)	106	13594	0.10000	0.1090	80.00- 120.00	100.00
22.480	22.480 (1.012)	91	24376			162.81- 222.81	179.31
100 o-Xylene					CAS #: 95-47-6		
23.001	23.001 (1.036)	106	11989	0.10000	0.1056	80.00- 120.00	100.00

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

  100 o-Xylene (continued)
 23.001  23.001 (1.036)    91     25330                  171.98- 231.98   211.28
-------------------------------------------------------------------------------
  101 Styrene                                      CAS #: 100-42-5
 23.029  23.029 (1.037)   104     17678 0.10000   0.1046  80.00- 120.00   100.00
 23.029  23.029 (1.037)    78     10810                   21.36-  81.36    61.15
-------------------------------------------------------------------------------
  102 Bromoform                                    CAS #: 75-25-2
 23.331  23.331 (1.051)   173     18196 0.10000  0.09960  80.00- 120.00   100.00(a)
 23.331  23.331 (1.051)   171     10132                   21.13-  81.13    55.68
-------------------------------------------------------------------------------
  103 Cumene                                       CAS #: 98-82-8
 23.441  23.441 (1.056)   105     32949 0.10000   0.1049  80.00- 120.00   100.00
 23.441  23.441 (1.056)   120     10217                    0.35-  60.35    31.01
-------------------------------------------------------------------------------
  108 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
 23.832  23.832 (1.073)    83     25827 0.10000   0.1106  80.00- 120.00   100.00
 23.832  23.832 (1.073)    85     16265                   36.04-  96.04    62.98
-------------------------------------------------------------------------------
  111 Propylbenzene                                CAS #: 103-65-1
 23.910  23.910 (1.077)    91     38072 0.10000   0.1175  80.00- 120.00   100.00
 23.910  23.910 (1.077)   120      9072                    0.00-  56.65    23.83
-------------------------------------------------------------------------------
  113 4-Ethyltoluene                               CAS #: 622-96-8
 24.039  24.039 (1.083)   105     27062 0.10000   0.1144  80.00- 120.00   100.00
 24.039  24.039 (1.083)   120      9911                    3.46-  63.46    36.62
-------------------------------------------------------------------------------
  114 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
 24.116  24.116 (1.086)   105     29831 0.10000   0.1211  80.00- 120.00   100.00
 24.116  24.116 (1.086)   120     16385                   21.43-  81.43    54.93
-------------------------------------------------------------------------------
  120 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
 24.529  24.529 (1.105)   105     27678 0.10000   0.1253  80.00- 120.00   100.00
 24.529  24.529 (1.105)   120     15622                   18.67-  78.67    56.44
-------------------------------------------------------------------------------
  122 1,3-Dichlorobenzene                          CAS #: 541-73-1
 24.902  24.902 (1.121)   146     13008 0.10000  0.07987  80.00- 120.00   100.00(a)
 24.902  24.902 (1.121)   148     11673                   33.26-  93.26    89.74
 24.902  24.902 (1.121)   111      8703                    9.81-  69.81    66.90
-------------------------------------------------------------------------------
  124 1,4-Dichlorobenzene                          CAS #: 106-46-7
 24.992  24.992 (1.125)   146     23844 0.10000   0.1209  80.00- 120.00   100.00
 24.992  24.992 (1.125)   148     12682                   32.99-  92.99    53.19
 24.992  24.992 (1.125)   111      5729                    8.98-  68.98    24.03
-------------------------------------------------------------------------------
  127 alpha-chlorotoluene                          CAS #: 100-44-7
 25.149  25.149 (1.133)    91     15623 0.10000  0.08206  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
127 alpha-chlorotoluene (continued)							
25.126	25.126 (1.132)	126	5588			0.00- 53.33	35.77
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.395	25.395 (1.144)	146	17842	0.10000	0.1004	80.00- 120.00	100.00
25.395	25.395 (1.144)	148	10842			33.33- 93.33	60.77
25.395	25.395 (1.144)	111	8755			12.11- 72.11	49.07
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	15479	0.10000	0.09590	80.00- 120.00	100.00(a)
27.077	27.077 (1.219)	182	13322			66.11- 126.11	86.06
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.166	27.166 (1.223)	225	15583	0.10000	0.1347	80.00- 120.00	100.00(a)
27.166	27.166 (1.223)	223	8384			31.45- 91.45	53.80

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012307.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 0.1ppbv (1.0ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	247181	-2.40
71 1,4-Difluorobenze	1019789	611873	1427705	992946	-2.63
92 Chlorobenzene-d5	833326	499996	1166656	788234	-5.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012307.d

Date : 23-JAN-2015 17:30

Client ID: Level 6

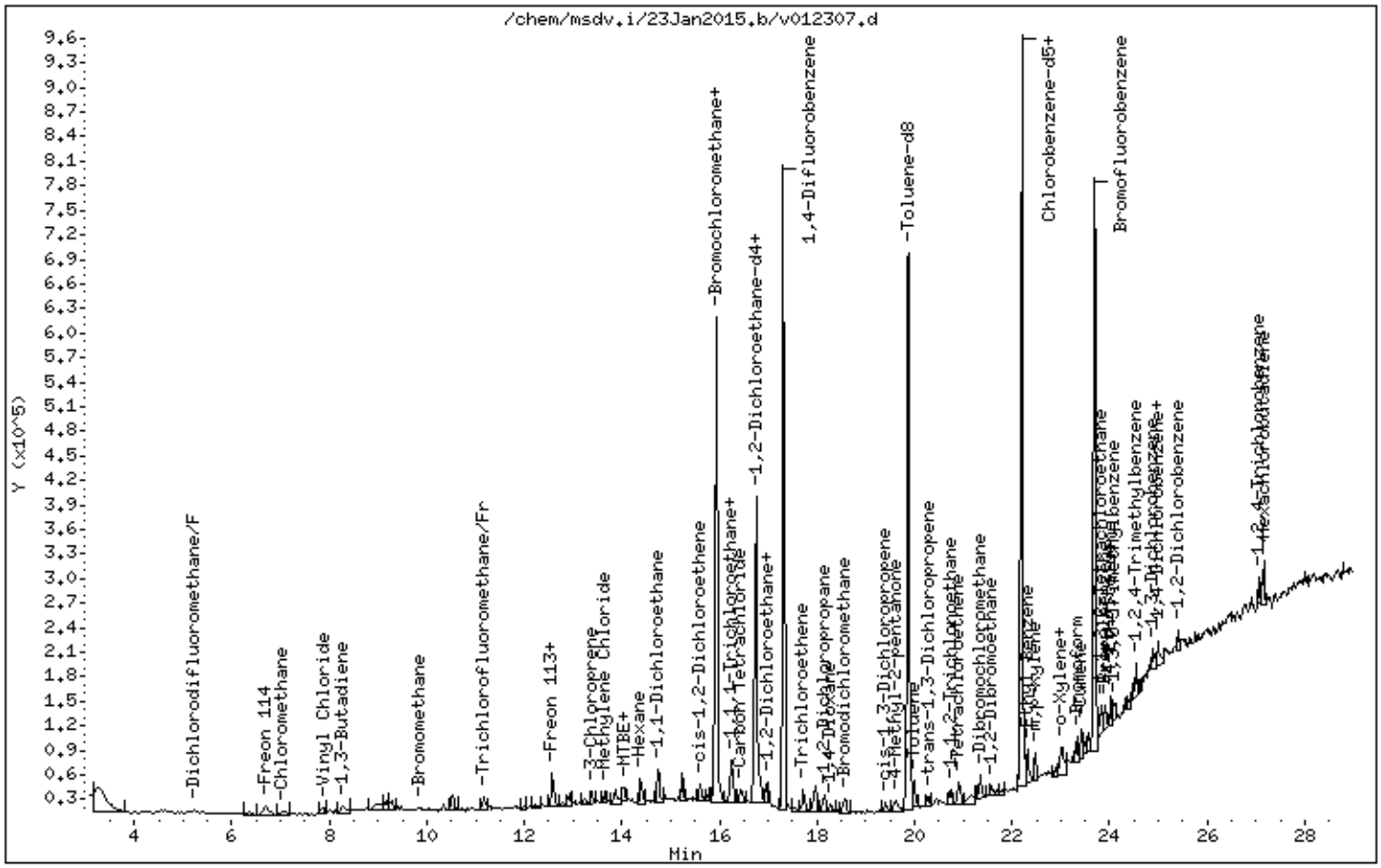
Instrument: msdv.i

Sample Info: 25mL# 2716-10

Operator: gh

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/27Jan2015.b/v012705.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 27-JAN-2015 11:30
Operator : ef Inst ID: msdv.i
Smp Info : 25mL# 2716-22
Misc Info : 0.5ppbv (5.0ppbv) AT-1
Comment : Low Level GC-MS
Method : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Meth Date : 27-Jan-2015 16:35 efinn Quant Type: ISTD
Cal Date : 27-JAN-2015 11:30 Cal File: v012705.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1crv.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	240142	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	183414			0.00- 30.00	76.38
15.934	15.934 (1.000)	49	487674			0.00- 30.00	203.08
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	965779	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	143749			0.00- 30.00	14.88
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	752725	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	426782			0.00- 30.00	56.70
1 Freon 134a						CAS #: 811-97-2	
4.523	4.485 (0.284)	83	25354	0.50000	0.5356	80.00- 120.00	100.00
4.447	4.485 (0.279)	69	22244			0.00- 30.00	87.73
2 Freon 152A						CAS #: 75-37-6	
4.976	4.976 (0.312)	65	18048	0.50000	0.5672	80.00- 120.00	100.00
4.976	4.976 (0.312)	51	49144			0.00- 30.00	272.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
218 Freon 142b					CAS #: 75-68-3		
6.977	7.015 (0.438)	65	63780	0.50000	0.5251	80.00- 120.00	100.00
6.977	7.015 (0.438)	45	22647			0.00- 30.00	35.51
14 Freon 21					CAS #: 75-43-4		
11.280	11.280 (0.708)	67	75418	0.50000	0.5342	80.00- 120.00	100.00
11.280	11.280 (0.708)	69	23178			0.00- 30.00	30.73
11.280	11.280 (0.708)	47	10192			0.00- 30.00	13.51
216 1,2-Dichlorotrifluoroethane					CAS #: 354-23-4		
12.321	12.321 (0.773)	117	53675	0.50000	0.5250	80.00- 120.00	100.00
12.321	12.321 (0.773)	67	69718			0.00- 30.00	129.89
217 Freon 123					CAS #: 306-83-2		
12.514	12.514 (0.785)	83	75779	0.50000	0.4934	80.00- 120.00	100.00(a)
12.514	12.514 (0.785)	133	17348			0.00- 30.00	22.89
12.514	12.514 (0.785)	85	51927			0.00- 30.00	68.52
211 Cyclopentene					CAS #: 142-29-0		
13.420	13.420 (0.842)	67	67205	0.50000	0.5379	80.00- 120.00	100.00
13.420	13.420 (0.842)	68	23708			0.00- 30.00	35.28
13.420	13.420 (0.842)	53	22411			0.00- 30.00	33.35
210 1-Propanol					CAS #: 71-23-8		
14.930	14.903 (0.937)	59	4757	0.50000	0.3148	80.00- 120.00	100.00(a)
14.930	14.903 (0.937)	42	6071			0.00- 30.00	127.62
14.930	14.903 (0.937)	41	4240			0.00- 30.00	89.13
215 2,2-Dichloropropane					CAS #: 594-20-7		
15.551	15.551 (0.976)	77	63630	0.50000	0.5076	80.00- 120.00	100.00
15.551	15.551 (0.976)	79	22141			0.00- 30.00	34.80
15.551	15.551 (0.976)	97	14530			0.00- 30.00	22.84
56 1,1-Dicholoropropene					CAS #: 563-58-6		
16.458	16.458 (1.033)	110	20448	0.50000	0.4803	80.00- 120.00	100.00(a)
16.458	16.458 (1.033)	75	57229			0.00- 30.00	279.88
214 Isobutanol					CAS #: 78-83-1		
16.550	16.519 (1.039)	41	29734	0.50000	0.3830	80.00- 120.00	100.00(a)
16.550	16.519 (1.039)	43	45410			0.00- 30.00	152.72
16.458	16.519 (1.033)	39	60600			0.00- 30.00	203.81
206 1-Butanol					CAS #: 71-36-3		
17.497	17.470 (1.011)	56	30052	0.50000	0.2852	80.00- 120.00	100.00(a)
17.497	17.470 (1.011)	41	21138			0.00- 30.00	70.34
17.497	17.470 (1.011)	43	12934			0.00- 30.00	43.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
83 1,3-Dichloropropane					CAS #: 142-28-9		
21.045	21.045 (1.216)	76	62467	0.50000	0.5002	80.00- 120.00	100.00
21.045	21.045 (1.216)	41	77949			0.00- 30.00	124.78
21.045	21.045 (1.216)	78	22313			0.00- 30.00	35.72
204 Butyl Acetate					CAS #: 123-86-4		
21.152	21.152 (1.222)	56	26191	0.50000	0.4674	80.00- 120.00	100.00(a)
21.188	21.152 (1.224)	73	8196			0.00- 30.00	31.29
21.152	21.152 (1.222)	43	63250			0.00- 30.00	241.50
91 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
22.343	22.343 (1.006)	131	72952	0.50000	0.5398	80.00- 120.00	100.00
22.343	22.343 (1.006)	117	60648			0.00- 30.00	83.13
22.315	22.343 (1.005)	95	28452			0.00- 30.00	39.00
205 2-Heptanone					CAS #: 110-43-0		
23.111	23.111 (1.041)	58	70687	0.50000	0.5644	80.00- 120.00	100.00
23.111	23.111 (1.041)	43	120761			0.00- 30.00	170.84
209 Cyclohexanone					CAS #: 108-94-1		
23.652	23.652 (1.065)	55	55513	0.50000	0.4955	80.00- 120.00	100.00(a)
23.652	23.652 (1.065)	98	14851			0.00- 30.00	26.75
23.652	23.652 (1.065)	42	36384			0.00- 30.00	65.54
97 Bromobenzene					CAS #: 108-86-1		
23.884	23.884 (1.076)	156	59378	0.50000	0.5514	80.00- 120.00	100.00
23.884	23.884 (1.076)	158	56295			0.00- 30.00	94.81
23.884	23.884 (1.076)	77	103817			0.00- 30.00	174.84
105 1,2,3-Trichloropropane					CAS #: 96-18-4		
23.910	23.910 (1.077)	110	32881	0.50000	0.5739	80.00- 120.00	100.00
23.910	23.910 (1.077)	75	75647			0.00- 30.00	230.06
23.910	23.910 (1.077)	61	27113			0.00- 30.00	82.46
107 2-Chlorotoluene					CAS #: 95-49-8		
24.065	24.065 (1.084)	126	34808	0.50000	0.5446	80.00- 120.00	100.00
24.065	24.065 (1.084)	91	91627			0.00- 30.00	263.24
24.065	24.065 (1.084)	65	12100			0.00- 30.00	34.76
109 4-Chlorotoluene					CAS #: 106-43-4		
24.194	24.194 (1.090)	126	29033	0.50000	0.5570	80.00- 120.00	100.00
24.194	24.194 (1.090)	91	73043			0.00- 30.00	251.59
24.194	24.194 (1.090)	63	12117			0.00- 30.00	41.74
213 Diisobutyl Ketone					CAS #: 108-83-8		
24.220	24.220 (1.091)	57	161566	0.50000	0.7014	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
213 Diisobutyl Ketone (continued)							
24.220	24.220 (1.091)	85	92235			0.00- 30.00	57.09
115 tert-Butylbenzene					CAS #: 98-06-6		
24.478	24.478 (1.102)	119	82503	0.50000	0.5698	80.00- 120.00	100.00
24.478	24.478 (1.102)	134	23273			0.00- 30.00	28.21
24.452	24.478 (1.101)	91	54892			0.00- 30.00	66.53
212 Pentachloroethane					CAS #: 76-01-7		
24.555	24.555 (1.106)	167	45832	0.50000	0.5190	80.00- 120.00	100.00
24.555	24.555 (1.106)	117	39890			0.00- 30.00	87.04
24.555	24.555 (1.106)	169	22087			0.00- 30.00	48.19
119 sec-Butylbenzene					CAS #: 135-98-8		
24.710	24.710 (1.113)	105	121011	0.50000	0.6412	80.00- 120.00	100.00
24.710	24.710 (1.113)	134	28242			0.00- 30.00	23.34
24.684	24.710 (1.112)	91	19416			0.00- 30.00	16.04
116 p-Cymene					CAS #: 99-87-6		
24.835	24.835 (1.118)	119	136162	0.50000	0.7082	80.00- 120.00	100.00
24.835	24.835 (1.118)	134	39002			0.00- 30.00	28.64
24.835	24.835 (1.118)	91	32325			0.00- 30.00	23.74
121 1,2,3-trimethylbenzene					CAS #: 526-73-8		
24.992	24.992 (1.125)	120	55924	0.50000	0.6516	80.00- 120.00	100.00
24.992	24.992 (1.125)	105	124082			0.00- 30.00	221.88
24.992	24.992 (1.125)	77	14173			0.00- 30.00	25.34
123 Butylbenzene					CAS #: 104-51-8		
25.261	25.261 (1.138)	134	45287	0.50000	0.6850	80.00- 120.00	100.00
25.261	25.261 (1.138)	91	143621			0.00- 30.00	317.14
25.261	25.261 (1.138)	92	77786			0.00- 30.00	171.76
129 1,2-dibromo-3-chloropropane					CAS #: 96-12-8		
26.203	26.203 (1.180)	157	46442	0.50000	0.5273	80.00- 120.00	100.00
26.203	26.203 (1.180)	75	36119			0.00- 30.00	77.77
26.225	26.203 (1.181)	155	34882			0.00- 30.00	75.11

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012705.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/27Jan2015.b/v15l0123b.m
Misc Info: 0.5ppbv (5.0ppbv) AT-1

Calibration Date: 27-JAN-2015
Calibration Time: 06:33
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	265976	159586	372366	240142	-9.71
71 1,4-Difluorobenze	1006128	603677	1408579	965779	-4.01
92 Chlorobenzene-d5	792159	475295	1109023	752725	-4.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/27Jan2015.b/v012705.d

Date : 27-JAN-2015 11:30

Client ID: Level 7

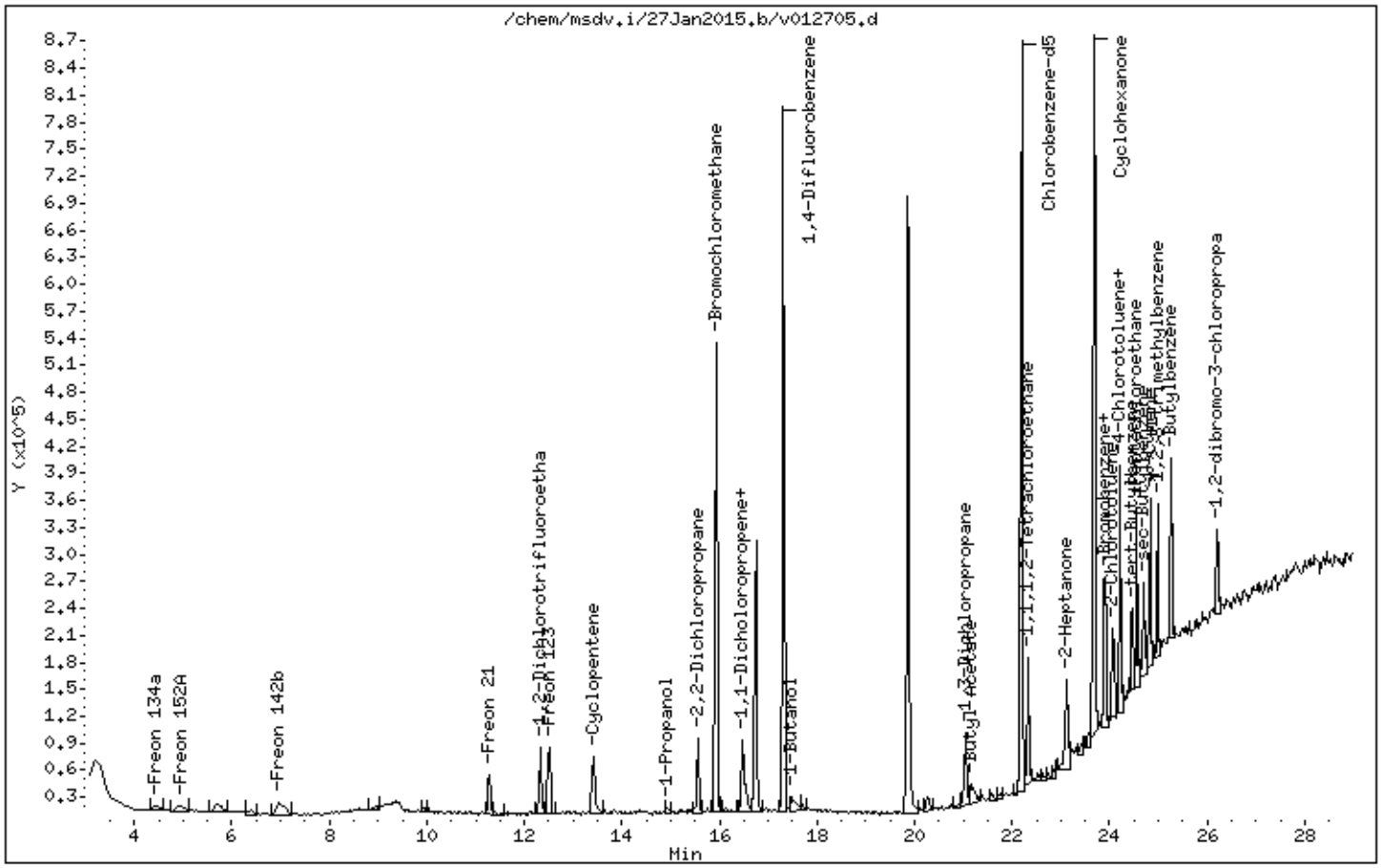
Instrument: msdv.i

Sample Info: 25mL# 2716-22

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012308.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 23-JAN-2015 18:15
Operator : gh Inst ID: msdv.i
Smp Info : 125mL# 2716-10
Misc Info : 0.5ppbv (1.0ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:13 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 18:15 Cal File: v012308.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HiLoFULLcrv.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.934	15.934 (1.000)	130	249319	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	194644			47.40- 107.40	78.07
15.934	15.934 (1.000)	49	553730			167.26- 227.26	222.10
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	1007670	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	158993			0.00- 46.18	15.78
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	784887	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	451550			25.73- 85.73	57.53
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	387551	5.00000	5.046	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	192650			26.63- 86.63	49.71
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.879	19.879 (1.149)	98	944163	5.00000	5.003	80.00- 120.00	100.00
19.879	19.879 (1.149)	70	101076			0.00- 40.74	10.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)							
19.857	19.857 (1.147)	100	610377			33.76- 93.76	64.65
$ 106 Bromofluorobenzene					CAS #: 460-00-4		
23.704	23.704 (1.067)	174	362373	5.00000	5.073	80.00- 120.00	100.00
23.678	23.678 (1.066)	95	454217			108.04- 168.04	125.35
23.704	23.704 (1.067)	176	350413			67.04- 127.04	96.70
3 Propylene					CAS #: 115-07-1		
4.711	4.711 (0.296)	41	53521	0.50000	0.5133	80.00- 120.00	100.00
4.674	4.674 (0.293)	42	42735			36.23- 96.23	79.85
4.749	4.749 (0.298)	39	35740			40.03- 100.03	66.78
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.240	5.240 (0.329)	85	97146	0.50000	0.4653	80.00- 120.00	100.00
5.240	5.240 (0.329)	87	33710			2.42- 62.42	34.70
6 Freon 114					CAS #: 76-14-2		
6.713	6.713 (0.421)	135	81871	0.50000	0.4768	80.00- 120.00	100.00
6.750	6.750 (0.424)	137	25791			1.35- 61.35	31.50
6.713	6.713 (0.421)	85	101754			100.64- 160.64	124.29
8 Chloromethane					CAS #: 74-87-3		
7.128	7.128 (0.447)	50	65033	0.50000	0.4646	80.00- 120.00	100.00
7.090	7.090 (0.445)	52	21595			2.12- 62.12	33.21
9 Butane					CAS #: 106-97-8		
7.885	7.885 (0.495)	58	11795	0.50000	0.5119	80.00- 120.00	100.00
7.885	7.885 (0.495)	43	101059			783.54- 843.54	856.80
10 Vinyl Chloride					CAS #: 75-01-4		
8.009	8.009 (0.503)	62	47081	0.50000	0.4671	80.00- 120.00	100.00
8.009	8.009 (0.503)	64	12207			0.00- 59.60	25.93
11 1,3-Butadiene					CAS #: 106-99-0		
8.257	8.257 (0.518)	54	43983	0.50000	0.4454	80.00- 120.00	100.00
8.257	8.257 (0.518)	39	45225			66.22- 126.22	102.82
12 Bromomethane					CAS #: 74-83-9		
9.835	9.835 (0.617)	94	27016	0.50000	0.4368	80.00- 120.00	100.00
9.835	9.835 (0.617)	96	28200			63.75- 123.75	104.38
17 Chloroethane					CAS #: 75-00-3		
10.365	10.365 (0.650)	64	20762	0.50000	0.4806	80.00- 120.00	100.00
10.365	10.365 (0.650)	66	6806			0.00- 59.96	32.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	48170	0.50000	0.4968	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	81855			125.71- 185.71	169.93
10.533	10.533 (0.661)	42	68690			102.09- 162.09	142.60
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.184	11.184 (0.702)	101	103065	0.50000	0.4670	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	68018			35.13- 95.13	66.00
24 Ethanol					CAS #: 64-17-5		
12.156	12.156 (0.763)	45	13533	0.50000	0.3527	80.00- 120.00	100.00
12.184	12.184 (0.765)	46	7608			10.23- 70.23	56.22
12.211	12.211 (0.766)	43	4670			0.00- 50.98	34.51
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.569	12.569 (0.789)	98	24373	0.50000	0.4892	80.00- 120.00	100.00
12.569	12.569 (0.789)	61	86015			302.86- 362.86	352.91
12.569	12.569 (0.789)	96	40039			132.09- 192.09	164.28
28 Freon 113					CAS #: 76-13-1		
12.569	12.569 (0.789)	151	78372	0.50000	0.5022	80.00- 120.00	100.00
12.569	12.569 (0.789)	153	46559			33.83- 93.83	59.41
12.569	12.569 (0.789)	101	83884			86.15- 146.15	107.03
31 Acetone					CAS #: 67-64-1		
12.843	12.843 (0.806)	58	32690	0.50000	0.5450	80.00- 120.00	100.00
12.843	12.843 (0.806)	43	113740			310.23- 370.23	347.94
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	104936	0.50000	0.4949	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.393	13.393 (0.841)	76	15428	0.50000	0.4651	80.00- 120.00	100.00
13.393	13.393 (0.841)	41	66163			401.48- 461.48	428.85
34 2-Propanol					CAS #: 67-63-0		
13.200	13.200 (0.828)	45	110907	0.50000	0.4917	80.00- 120.00	100.00
13.200	13.200 (0.828)	43	19698			0.00- 46.97	17.76
13.200	13.200 (0.828)	59	5527			0.00- 33.46	4.98
37 Methylene Chloride					CAS #: 75-09-2		
13.667	13.667 (0.858)	84	35418	0.50000	0.4756	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	80879			177.28- 237.28	228.36
13.640	13.640 (0.856)	51	25175			32.93- 92.93	71.08
38 tert-butyl alcohol					CAS #: 75-65-0		
13.859	13.859 (0.870)	59	156382	0.50000	0.5724	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
38 tert-butyl alcohol (continued)							
13.859	13.859 (0.870)	41	37025			0.00- 51.49	23.68
13.859	13.859 (0.870)	57	14783			0.00- 40.02	9.45
39 MTBE					CAS #: 1634-04-4		
13.997	13.997 (0.878)	73	106469	0.50000	0.4694	80.00- 120.00	100.00
13.997	13.997 (0.878)	57	39986			3.26- 63.26	37.56
13.997	13.997 (0.878)	41	45912			2.63- 62.63	43.12
40 trans-1,2-Dichloroethene					CAS #: 156-60-5		
14.052	14.052 (0.882)	98	26560	0.50000	0.5090	80.00- 120.00	100.00
14.052	14.052 (0.882)	61	78811			262.11- 322.11	296.73
14.052	14.052 (0.882)	96	41333			128.28- 188.28	155.62
43 Hexane					CAS #: 110-54-3		
14.381	14.381 (0.903)	57	101105	0.50000	0.4862	80.00- 120.00	100.00
14.381	14.381 (0.903)	43	71958			36.69- 96.69	71.17
14.381	14.381 (0.903)	86	9810			0.00- 41.09	9.70
45 Isopropyl ether					CAS #: 108-20-3		
14.738	14.738 (0.925)	45	245938	0.50000	0.5030	80.00- 120.00	100.00
14.738	14.738 (0.925)	87	35272			0.00- 47.17	14.34
14.738	14.738 (0.925)	59	25028			0.00- 39.85	10.18
46 1,1-Dichloroethane					CAS #: 75-34-3		
14.765	14.765 (0.927)	63	87484	0.50000	0.4587	80.00- 120.00	100.00
14.765	14.765 (0.927)	65	24790			0.34- 60.34	28.34
47 Vinyl Acetate					CAS #: 108-05-4		
14.820	14.820 (0.930)	86	5136	0.50000	0.3185	80.00- 120.00	100.00
14.820	14.820 (0.930)	42	12032			147.97- 207.97	234.27
14.820	14.820 (0.930)	43	130279			2354.84-2414.84	2536.58
49 Ethyl-tert-butyl ether					CAS #: 637-92-3		
15.240	15.240 (0.956)	59	184965	0.50000	0.4939	80.00- 120.00	100.00
15.240	15.240 (0.956)	87	54188			0.00- 59.53	29.30
15.240	15.240 (0.956)	41	37564			0.00- 48.76	20.31
50 cis-1,2-Dichloroethene					CAS #: 156-59-2		
15.592	15.592 (0.979)	98	26826	0.50000	0.4383	80.00- 120.00	100.00
15.592	15.592 (0.979)	61	77251			232.32- 292.32	287.97
15.592	15.592 (0.979)	96	47838			127.66- 187.66	178.33
51 2-Butanone					CAS #: 78-93-3		
15.613	15.613 (0.980)	72	17347	0.50000	0.4686	80.00- 120.00	100.00
15.592	15.592 (0.979)	43	135197			621.62- 681.62	779.37

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

   51 2-Butanone (continued)
 15.613  15.613 (0.980)    57     13094                    17.09-  77.09    75.48
-------------------------------------------------------------------------------
   53 Tetrahydrofuran                                CAS #: 109-99-9
 15.934  15.934 (1.000)    42     92329 0.50000   0.5266  80.00- 120.00   100.00
 15.934  15.934 (1.000)    71     19375                     0.00-  54.64    20.98
 15.934  15.934 (1.000)    72     20773                     0.00-  57.57    22.50
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83     87898 0.50000   0.4969  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85     59987                    34.22-  94.22    68.25
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.273  16.273 (1.021)    84     55824 0.50000   0.4462  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56    112156                   145.90- 205.90   200.91
 16.273  16.273 (1.021)    41     58435                    62.61- 122.61   104.68
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97     91031 0.50000   0.4459  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99     62574                    34.05-  94.05    68.74
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                           CAS #: 56-23-5
 16.458  16.458 (1.033)   119     84656 0.50000   0.4838  80.00- 120.00   100.00
 16.458  16.458 (1.033)   117     82117                    68.83- 128.83    97.00
                   Sum of Peak Amounts =           0.484
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                         CAS #: 540-84-1
 16.728  16.728 (1.050)    56    100616 0.50000   0.4477  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57    310736                   271.70- 331.70   308.83
 16.728  16.728 (1.050)    41     84933                    52.41- 112.41    84.41
-------------------------------------------------------------------------------
   64 Benzene                                        CAS #: 71-43-2
 16.756  16.756 (0.968)    78    114844 0.50000   0.4327  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77     27630                     0.00-  53.49    24.06
-------------------------------------------------------------------------------
   66 tert-amyl methyl ether                         CAS #: 994-05-8
 16.811  16.811 (0.971)    87     30700 0.50000   0.4850  80.00- 120.00   100.00
 16.811  16.811 (0.971)    73    128521                   368.43- 428.43   418.64
 16.811  16.811 (0.971)    55     53151                   120.38- 180.38   173.13
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                             CAS #: 107-06-2
 16.865  16.865 (0.975)    62     72599 0.50000   0.4727  80.00- 120.00   100.00
 16.865  16.865 (0.975)    64     21623                     0.00-  59.91    29.78
-------------------------------------------------------------------------------
   69 Heptane                                        CAS #: 142-82-5
 16.975  16.975 (0.981)    57     52989 0.50000   0.4401  80.00- 120.00   100.00
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
69 Heptane (continued)							
16.948	16.948 (0.979)	100	11692			0.00- 53.77	22.06
16.975	16.975 (0.981)	43	127668			172.35- 232.35	240.93
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	62516	0.50000	0.4990	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	58885			65.17- 125.17	94.19
17.717	17.717 (1.024)	97	40444			31.34- 91.34	64.69
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	78710	0.50000	0.5002	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	33734			17.27- 77.27	42.86
17.964	17.964 (1.038)	55	98706			91.54- 151.54	125.40
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	59667	0.50000	0.4821	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	43207			43.25- 103.25	72.41
18.156	18.156 (1.049)	41	39928			33.86- 93.86	66.92
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	35244	0.50000	0.4636	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	41427			73.29- 133.29	117.54
18.266	18.266 (1.056)	57	16103			3.70- 63.70	45.69
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	90414	0.50000	0.4939	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	57413			33.07- 93.07	63.50
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.408	19.408 (1.122)	75	69454	0.50000	0.4563	80.00- 120.00	100.00
19.386	19.386 (1.120)	77	22525			0.97- 60.97	32.43
19.408	19.408 (1.122)	39	52958			40.23- 100.23	76.25
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	181138	0.50000	0.5092	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	59395			6.07- 66.07	32.79
19.588	19.588 (1.132)	85	15411			0.00- 41.52	8.51
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	135942	0.50000	0.4654	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	77448			28.55- 88.55	56.97
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	59833	0.50000	0.4523	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	20873			1.39- 61.39	34.89
20.435	20.435 (0.920)	39	41362			36.57- 96.57	69.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
84 1,1,2-Trichloroethane					CAS #: 79-00-5		
20.758	20.758 (0.935)	97	52759	0.50000	0.4997	80.00- 120.00	100.00
20.758	20.758 (0.935)	99	33004			32.18- 92.18	62.56
20.758	20.758 (0.935)	83	45239			54.91- 114.91	85.75
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	79192	0.50000	0.4739	80.00- 120.00	100.00
20.901	20.901 (0.941)	129	60612			50.27- 110.27	76.54
20.901	20.901 (0.941)	131	65538			49.16- 109.16	82.76
87 2-Hexanone					CAS #: 591-78-6		
21.045	21.045 (0.948)	58	64880	0.50000	0.4956	80.00- 120.00	100.00
21.045	21.045 (0.948)	43	128130			171.66- 231.66	197.49
21.045	21.045 (0.948)	100	8988			0.00- 44.23	13.85
89 Dibromochloromethane					CAS #: 124-48-1		
21.367	21.367 (0.962)	129	102217	0.50000	0.5025	80.00- 120.00	100.00
21.367	21.367 (0.962)	127	82137			46.63- 106.63	80.36
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.583	21.583 (0.972)	107	87757	0.50000	0.5086	80.00- 120.00	100.00
21.583	21.583 (0.972)	109	82165			62.25- 122.25	93.63
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	118473	0.50000	0.4725	80.00- 120.00	100.00
22.233	22.233 (1.001)	114	33953			1.87- 61.87	28.66
22.233	22.233 (1.001)	77	69444			27.42- 87.42	58.62
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	59886	0.50000	0.4963	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	160363			258.78- 318.78	267.78
96 m,p-Xylene					CAS #: 108-38-3		
22.480	22.480 (1.012)	106	57518	0.50000	0.4748	80.00- 120.00	100.00
22.480	22.480 (1.012)	91	106968			162.81- 222.81	185.97
100 o-Xylene					CAS #: 95-47-6		
23.002	23.002 (1.036)	106	51288	0.50000	0.4682	80.00- 120.00	100.00
23.002	23.002 (1.036)	91	103816			171.98- 231.98	202.42
101 Styrene					CAS #: 100-42-5		
23.029	23.029 (1.037)	104	71449	0.50000	0.4470	80.00- 120.00	100.00
23.029	23.029 (1.037)	78	37151			21.36- 81.36	52.00
102 Bromoform					CAS #: 75-25-2		
23.331	23.331 (1.051)	173	85943	0.50000	0.4790	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
102 Bromoform (continued)							
23.331	23.331 (1.051)	171	46173			21.13- 81.13	53.73
103 Cumene					CAS #: 98-82-8		
23.441	23.441 (1.056)	105	141796	0.50000	0.4680	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	43970			0.35- 60.35	31.01
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	108836	0.50000	0.4756	80.00- 120.00	100.00
23.833	23.833 (1.073)	85	65898			36.04- 96.04	60.55
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	130264	0.50000	0.4314	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	36467			0.00- 56.65	27.99
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	103532	0.50000	0.4579	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	32795			3.46- 63.46	31.68
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	117719	0.50000	0.4865	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	60386			21.43- 81.43	51.30
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	105193	0.50000	0.4852	80.00- 120.00	100.00
24.529	24.529 (1.105)	120	52704			18.67- 78.67	50.10
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	66981	0.50000	0.4318	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	43504			33.26- 93.26	64.95
24.902	24.902 (1.121)	111	27264			9.81- 69.81	40.70
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	71977	0.50000	0.3927	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	33797			32.99- 92.99	46.96
24.992	24.992 (1.125)	111	27528			8.98- 68.98	38.25
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.127	25.127 (1.132)	91	77881	0.50000	0.4510	80.00- 120.00	100.00
25.127	25.127 (1.132)	126	20928			0.00- 53.33	26.87
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	66628	0.50000	0.4013	80.00- 120.00	100.00
25.396	25.396 (1.144)	148	46351			33.33- 93.33	69.57
25.396	25.396 (1.144)	111	27920			12.11- 72.11	41.90

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
27.077	27.077	(1.219)	180	79703	0.50000	0.4969	80.00- 120.00	100.00
27.077	27.077	(1.219)	182	70276			66.11- 126.11	88.17
132 Hexachlorobutadiene						CAS #: 87-68-3		
27.167	27.167	(1.223)	225	51997	0.50000	0.4666	80.00- 120.00	100.00
27.167	27.167	(1.223)	223	35366			31.45- 91.45	68.02

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012308.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 0.5ppbv (1.0ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	249319	-1.56
71 1,4-Difluorobenze	1019789	611873	1427705	1007670	-1.19
92 Chlorobenzene-d5	833326	499996	1166656	784887	-5.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012308.d

Date : 23-JAN-2015 18:15

Client ID: Level 7

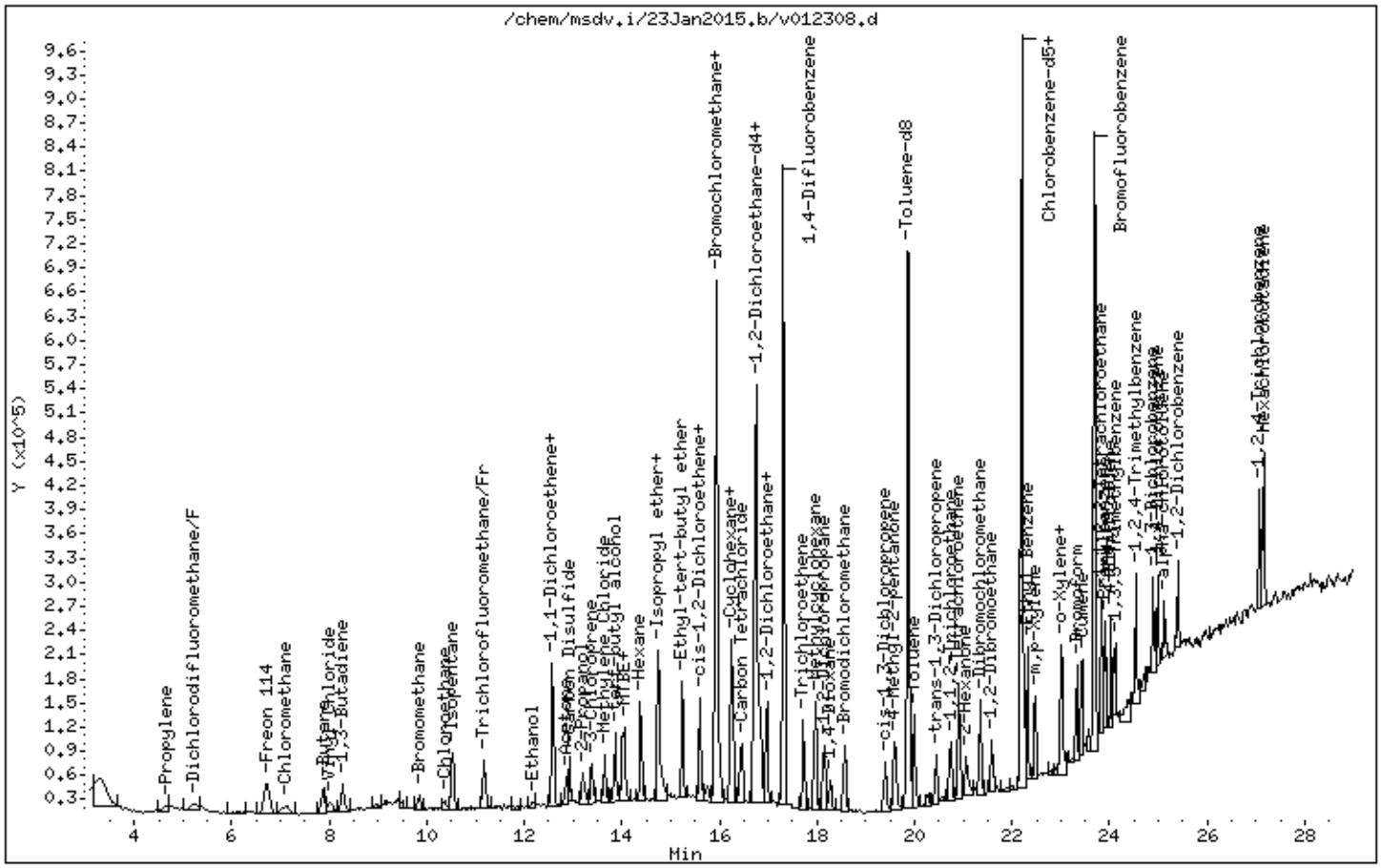
Instrument: msdv.i

Sample Info: 125mL# 2716-10

Operator: gh

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/27Jan2015.b/v012706.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 27-JAN-2015 12:09
Operator : ef Inst ID: msdv.i
Smp Info : 50mL# 2716-22
Misc Info : 1.0ppbv (5.0ppbv) AT-1
Comment : Low Level GC-MS
Method : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Meth Date : 27-Jan-2015 16:35 efinn Quant Type: ISTD
Cal Date : 27-JAN-2015 12:09 Cal File: v012706.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1crv.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	239010	5.00000		70.00- 130.00	100.00
15.934	15.934 (1.000)	128	184345			0.00- 30.00	77.13
15.934	15.934 (1.000)	49	487136			0.00- 30.00	203.81
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	931417	5.00000		70.00- 130.00	100.00
17.305	17.305 (1.000)	88	144996			0.00- 30.00	15.57
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	734924	5.00000		70.00- 130.00	100.00
22.205	22.205 (1.000)	82	395127			0.00- 30.00	53.76
1 Freon 134a						CAS #: 811-97-2	
4.485	4.523 (0.281)	83	45984	1.00000	0.9761	70.00- 130.00	100.00
4.523	4.447 (0.284)	69	42565			0.00- 30.00	92.56
2 Freon 152A						CAS #: 75-37-6	
4.976	4.976 (0.312)	65	30491	1.00000	0.9628	70.00- 130.00	100.00
4.976	4.976 (0.312)	51	88526			0.00- 30.00	290.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
218 Freon 142b					CAS #: 75-68-3		
7.015	6.977 (0.440)	65	122352	1.00000	1.012	70.00- 130.00	100.00
7.015	6.977 (0.440)	45	36814			0.00- 30.00	30.09
14 Freon 21					CAS #: 75-43-4		
11.280	11.280 (0.708)	67	142037	1.00000	1.011	70.00- 130.00	100.00
11.280	11.280 (0.708)	69	42752			0.00- 30.00	30.10
11.280	11.280 (0.708)	47	19629			0.00- 30.00	13.82
216 1,2-Dichlorotrifluoroethane					CAS #: 354-23-4		
12.321	12.321 (0.773)	117	102675	1.00000	1.009	70.00- 130.00	100.00
12.321	12.321 (0.773)	67	134735			0.00- 30.00	131.22
217 Freon 123					CAS #: 306-83-2		
12.514	12.514 (0.785)	83	155670	1.00000	1.018	70.00- 130.00	100.00
12.514	12.514 (0.785)	133	35124			0.00- 30.00	22.56
12.514	12.514 (0.785)	85	99367			0.00- 30.00	63.83
211 Cyclopentene					CAS #: 142-29-0		
13.420	13.420 (0.842)	67	122556	1.00000	0.9855	70.00- 130.00	100.00
13.420	13.420 (0.842)	68	45931			0.00- 30.00	37.48
13.420	13.420 (0.842)	53	38767			0.00- 30.00	31.63
210 1-Propanol					CAS #: 71-23-8		
14.903	14.930 (0.935)	59	12778	1.00000	0.8495	70.00- 130.00	100.00
14.903	14.930 (0.935)	42	16320			0.00- 30.00	127.72
14.903	14.930 (0.935)	41	11397			0.00- 30.00	89.19
215 2,2-Dichloropropane					CAS #: 594-20-7		
15.551	15.551 (0.976)	77	129636	1.00000	1.039	70.00- 130.00	100.00
15.551	15.551 (0.976)	79	39272			0.00- 30.00	30.29
15.551	15.551 (0.976)	97	29437			0.00- 30.00	22.71
56 1,1-Dicholoropropene					CAS #: 563-58-6		
16.458	16.458 (1.033)	110	43590	1.00000	1.029	70.00- 130.00	100.00
16.458	16.458 (1.033)	75	107487			0.00- 30.00	246.59
214 Isobutanol					CAS #: 78-83-1		
16.519	16.550 (1.037)	41	64391	1.00000	0.8333	70.00- 130.00	100.00
16.519	16.550 (1.037)	43	96635			0.00- 30.00	150.08
16.458	16.458 (1.033)	39	117701			0.00- 30.00	182.79
206 1-Butanol					CAS #: 71-36-3		
17.470	17.497 (1.010)	56	66929	1.00000	0.6587	70.00- 130.00	100.00
17.470	17.497 (1.010)	41	52331			0.00- 30.00	78.19
17.470	17.497 (1.010)	43	52494			0.00- 30.00	78.43

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

   83 1,3-Dichloropropane                          CAS #: 142-28-9
 21.045  21.045 (1.216)    76    124896 1.00000    1.037  70.00- 130.00   100.00
 21.045  21.045 (1.216)    41    134785                    0.00-  30.00   107.92
 21.045  21.045 (1.216)    78     42012                    0.00-  30.00    33.64
-------------------------------------------------------------------------------
  204 Butyl Acetate                                CAS #: 123-86-4
 21.152  21.152 (1.222)    56     51774 1.00000   0.9579  70.00- 130.00   100.00
 21.152  21.188 (1.222)    73     11720                    0.00-  30.00    22.64
 21.152  21.152 (1.222)    43    138194                    0.00-  30.00   266.92
-------------------------------------------------------------------------------
   91 1,1,1,2-Tetrachloroethane                    CAS #: 630-20-6
 22.343  22.343 (1.006)   131    137661 1.00000    1.043  70.00- 130.00   100.00
 22.343  22.343 (1.006)   117    103598                    0.00-  30.00    75.26
 22.343  22.315 (1.006)    95     49070                    0.00-  30.00    35.65
-------------------------------------------------------------------------------
  205 2-Heptanone                                  CAS #: 110-43-0
 23.111  23.111 (1.041)    58    119717 1.00000   0.9790  70.00- 130.00   100.00
 23.111  23.111 (1.041)    43    234583                    0.00-  30.00   195.95
-------------------------------------------------------------------------------
  209 Cyclohexanone                                CAS #: 108-94-1
 23.652  23.652 (1.065)    55    110930 1.00000    1.014  70.00- 130.00   100.00
 23.652  23.652 (1.065)    98     30521                    0.00-  30.00    27.51
 23.652  23.652 (1.065)    42     73515                    0.00-  30.00    66.27
-------------------------------------------------------------------------------
   97 Bromobenzene                                 CAS #: 108-86-1
 23.884  23.884 (1.076)   156    106482 1.00000    1.013  70.00- 130.00   100.00
 23.884  23.884 (1.076)   158     99805                    0.00-  30.00    93.73
 23.884  23.884 (1.076)    77    183202                    0.00-  30.00   172.05
-------------------------------------------------------------------------------
  105 1,2,3-Trichloropropane                       CAS #: 96-18-4
 23.910  23.910 (1.077)   110     53437 1.00000   0.9553  70.00- 130.00   100.00
 23.910  23.910 (1.077)    75    152494                    0.00-  30.00   285.37
 23.910  23.910 (1.077)    61     51442                    0.00-  30.00    96.27
-------------------------------------------------------------------------------
  107 2-Chlorotoluene                              CAS #: 95-49-8
 24.065  24.065 (1.084)   126     59582 1.00000   0.9548  70.00- 130.00   100.00
 24.065  24.065 (1.084)    91    158130                    0.00-  30.00   265.40
 24.065  24.065 (1.084)    65     17432                    0.00-  30.00    29.26
-------------------------------------------------------------------------------
  109 4-Chlorotoluene                              CAS #: 106-43-4
 24.194  24.194 (1.090)   126     50217 1.00000   0.9868  70.00- 130.00   100.00
 24.194  24.194 (1.090)    91    136886                    0.00-  30.00   272.59
 24.194  24.194 (1.090)    63     19874                    0.00-  30.00    39.58
-------------------------------------------------------------------------------
  213 Diisobutyl Ketone                            CAS #: 108-83-8
 24.220  24.220 (1.091)    57    259887 1.00000    1.156  70.00- 130.00   100.00
```

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

  213 Diisobutyl Ketone (continued)
 24.220  24.220 (1.091)    85    147292                     0.00-  30.00    56.68
-------------------------------------------------------------------------------
  115 tert-Butylbenzene                             CAS #: 98-06-6
 24.478  24.478 (1.102)   119    134830 1.00000   0.9537  70.00- 130.00   100.00
 24.478  24.478 (1.102)   134     32968                     0.00-  30.00    24.45
 24.478  24.452 (1.102)    91     88087                     0.00-  30.00    65.33
-------------------------------------------------------------------------------
  212 Pentachloroethane                             CAS #: 76-01-7
 24.555  24.555 (1.106)   167     88640 1.00000    1.028  70.00- 130.00   100.00
 24.555  24.555 (1.106)   117     79089                     0.00-  30.00    89.22
 24.555  24.555 (1.106)   169     44278                     0.00-  30.00    49.95
-------------------------------------------------------------------------------
  119 sec-Butylbenzene                              CAS #: 135-98-8
 24.710  24.710 (1.113)   105    174239 1.00000   0.9456  70.00- 130.00   100.00
 24.710  24.710 (1.113)   134     42831                     0.00-  30.00    24.58
 24.710  24.684 (1.113)    91     31475                     0.00-  30.00    18.06
-------------------------------------------------------------------------------
  116 p-Cymene                                      CAS #: 99-87-6
 24.835  24.835 (1.118)   119    191751 1.00000    1.021  70.00- 130.00   100.00
 24.835  24.835 (1.118)   134     57553                     0.00-  30.00    30.01
 24.835  24.835 (1.118)    91     45170                     0.00-  30.00    23.56
-------------------------------------------------------------------------------
  121 1,2,3-trimethylbenzene                        CAS #: 526-73-8
 24.992  24.992 (1.125)   120     89871 1.00000    1.072  70.00- 130.00   100.00
 24.992  24.992 (1.125)   105    192131                     0.00-  30.00   213.79
 24.992  24.992 (1.125)    77     21006                     0.00-  30.00    23.37
-------------------------------------------------------------------------------
  123 Butylbenzene                                  CAS #: 104-51-8
 25.261  25.261 (1.138)   134     75396 1.00000    1.168  70.00- 130.00   100.00
 25.261  25.261 (1.138)    91    225481                     0.00-  30.00   299.06
 25.261  25.261 (1.138)    92    119715                     0.00-  30.00   158.78
-------------------------------------------------------------------------------
  129 1,2-dibromo-3-chloropropane                   CAS #: 96-12-8
 26.203  26.203 (1.180)   157     83737 1.00000   0.9738  70.00- 130.00   100.00
 26.203  26.203 (1.180)    75     70283                     0.00-  30.00    83.93
 26.225  26.225 (1.181)   155     65331                     0.00-  30.00    78.02
-------------------------------------------------------------------------------
```

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012706.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/27Jan2015.b/v15l0123b.m
Misc Info: 1.0ppbv (5.0ppbv) AT-1

Calibration Date: 27-JAN-2015
Calibration Time: 06:33
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	265976	159586	372366	239010	-10.14
71 1,4-Difluorobenze	1006128	603677	1408579	931417	-7.43
92 Chlorobenzene-d5	792159	475295	1109023	734924	-7.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/27Jan2015.b/v012706.d

Date : 27-JAN-2015 12:09

Client ID: Level 8

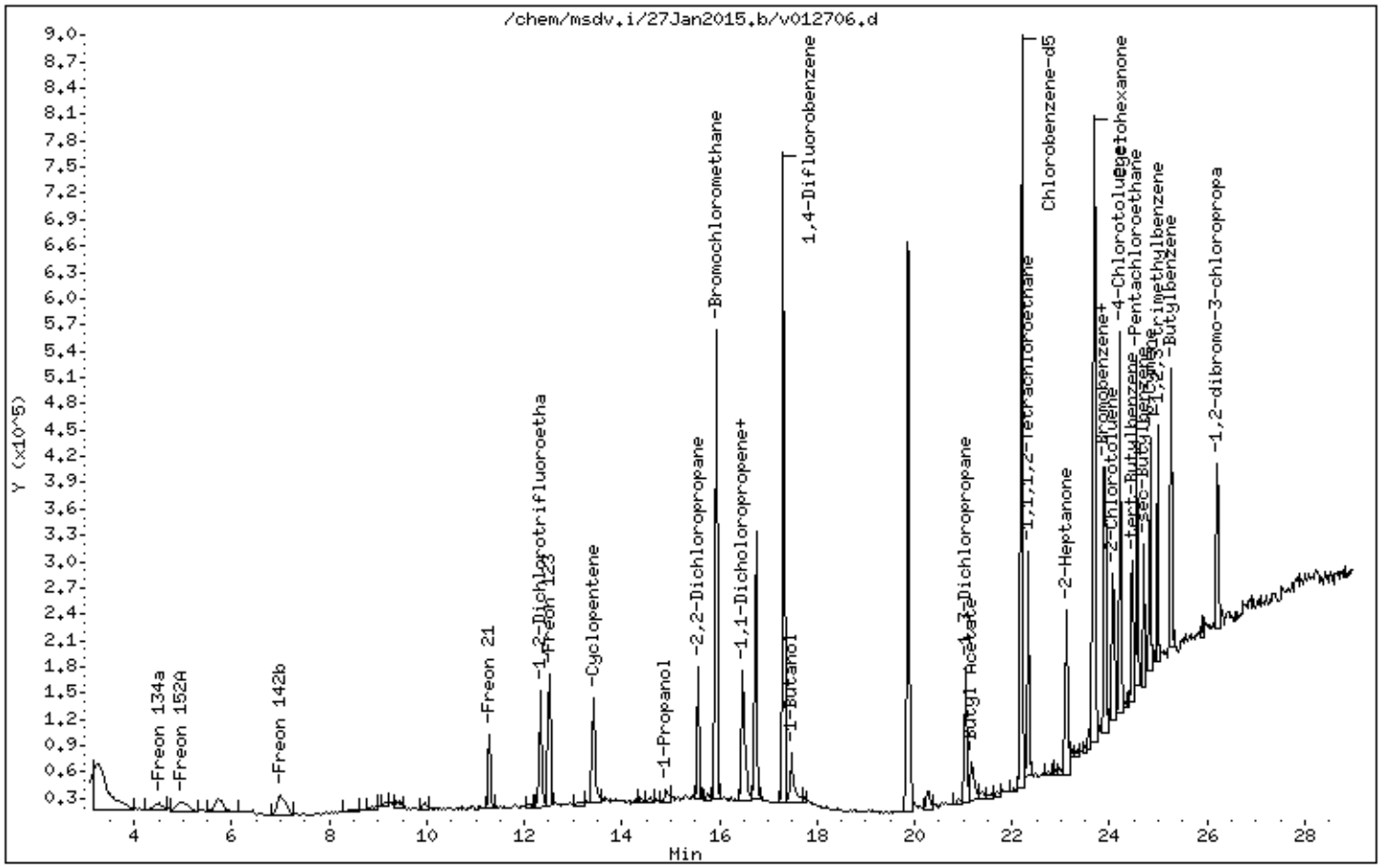
Instrument: msdv.i

Sample Info: 50mL# 2716-22

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012309.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 23-JAN-2015 19:01
Operator : gh Inst ID: msdv.i
Smp Info : 250mL# 2716-10
Misc Info : 1.0ppbv (1.0ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:20 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 19:01 Cal File: v012309.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HiLoFULLcrv.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.933	15.934 (1.000)	130	257226	5.00000		80.00- 120.00	100.00
15.933	15.934 (1.000)	128	193245			48.09- 108.09	75.13
15.933	15.934 (1.000)	49	552773			196.04- 256.04	214.90
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	1015757	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	164886			0.00- 45.23	16.23
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	790318	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	442633			23.86- 83.86	56.01
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.756	16.756 (1.052)	65	390138	5.00000	4.938	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	184013			25.13- 85.13	47.17
$ 80 Toluene-d8						CAS #: 2037-26-5	
19.879	19.879 (1.149)	98	933764	5.00000	4.927	80.00- 120.00	100.00
19.856	19.879 (1.147)	70	96738			0.00- 40.74	10.36

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)								
19.856	19.879	(1.147)	100	614579			36.73- 96.73	65.82
$ 106 Bromofluorobenzene						CAS #: 460-00-4		
23.704	23.704	(1.067)	174	364633	5.00000	5.055	80.00- 120.00	100.00
23.678	23.704	(1.066)	95	467121			95.17- 155.17	128.11
23.704	23.704	(1.067)	176	367124			64.74- 124.74	100.68
3 Propylene						CAS #: 115-07-1		
4.711	4.674	(0.296)	41	108914	1.00000	1.008	80.00- 120.00	100.00
4.711	4.674	(0.296)	42	70985			37.91- 97.91	65.18
4.787	4.674	(0.300)	39	71388			38.58- 98.58	65.55
4 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8		
5.202	5.202	(0.326)	85	190480	1.00000	0.9106	80.00- 120.00	100.00
5.202	5.202	(0.326)	87	62122			1.73- 61.73	32.61
6 Freon 114						CAS #: 76-14-2		
6.750	6.713	(0.424)	135	161403	1.00000	0.9276	80.00- 120.00	100.00
6.750	6.713	(0.424)	137	53882			2.34- 62.34	33.38
6.750	6.713	(0.424)	85	196286			93.53- 153.53	121.61
8 Chloromethane						CAS #: 74-87-3		
7.128	7.053	(0.447)	50	124346	1.00000	0.8921	80.00- 120.00	100.00
7.128	7.053	(0.447)	52	38409			1.57- 61.57	30.89
9 Butane						CAS #: 106-97-8		
7.885	7.885	(0.495)	58	23433	1.00000	0.9905	80.00- 120.00	100.00
7.885	7.885	(0.495)	43	195597			879.44- 939.44	834.71
10 Vinyl Chloride						CAS #: 75-01-4		
8.040	8.009	(0.505)	62	94973	1.00000	0.9336	80.00- 120.00	100.00
8.040	8.009	(0.505)	64	27835			0.00- 59.13	29.31
11 1,3-Butadiene						CAS #: 106-99-0		
8.288	8.257	(0.520)	54	93470	1.00000	0.9368	80.00- 120.00	100.00
8.257	8.257	(0.518)	39	95189			70.79- 130.79	101.84
12 Bromomethane						CAS #: 74-83-9		
9.834	9.835	(0.617)	94	52573	1.00000	0.8618	80.00- 120.00	100.00
9.834	9.835	(0.617)	96	55564			64.45- 124.45	105.69
17 Chloroethane						CAS #: 75-00-3		
10.364	10.340	(0.650)	64	40938	1.00000	0.9441	80.00- 120.00	100.00
10.364	10.340	(0.650)	66	13267			0.00- 59.36	32.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	90361	1.00000	0.9334	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	158336			135.34- 195.34	175.23
10.533	10.533 (0.661)	42	132665			110.64- 170.64	146.82
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.184	11.184 (0.702)	101	200949	1.00000	0.9037	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	130052			34.40- 94.40	64.72
24 Ethanol					CAS #: 64-17-5		
12.156	12.102 (0.763)	45	48972	1.00000	1.146	80.00- 120.00	100.00
12.156	12.102 (0.763)	46	15955			9.93- 69.93	32.58
12.156	12.102 (0.763)	43	6806			0.00- 50.31	13.90
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.568	12.569 (0.789)	98	53393	1.00000	1.029	80.00- 120.00	100.00
12.568	12.569 (0.789)	61	173300			316.34- 376.34	324.57
12.568	12.569 (0.789)	96	78152			133.12- 193.12	146.37
28 Freon 113					CAS #: 76-13-1		
12.568	12.569 (0.789)	151	148629	1.00000	0.9375	80.00- 120.00	100.00
12.568	12.569 (0.789)	153	92978			33.38- 93.38	62.56
12.568	12.569 (0.789)	101	178308			85.19- 145.19	119.97
31 Acetone					CAS #: 67-64-1		
12.843	12.816 (0.806)	58	66247	1.00000	1.046	80.00- 120.00	100.00
12.843	12.816 (0.806)	43	225123			326.03- 386.03	339.82
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	208177	1.00000	0.9672	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.392	13.365 (0.841)	76	26575	1.00000	0.8225	80.00- 120.00	100.00
13.392	13.365 (0.841)	41	131653			456.88- 516.88	495.40
34 2-Propanol					CAS #: 67-63-0		
13.200	13.173 (0.828)	45	233467	1.00000	1.002	80.00- 120.00	100.00
13.200	13.173 (0.828)	43	44573			0.00- 47.97	19.09
13.200	13.173 (0.828)	59	8688			0.00- 33.25	3.72
37 Methylene Chloride					CAS #: 75-09-2		
13.667	13.640 (0.858)	84	67823	1.00000	0.9095	80.00- 120.00	100.00
13.667	13.640 (0.858)	49	153876			198.57- 258.57	226.88
13.640	13.640 (0.856)	51	49955			41.48- 101.48	73.65
38 tert-butyl alcohol					CAS #: 75-65-0		
13.859	13.859 (0.870)	59	304762	1.00000	1.053	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
38 tert-butyl alcohol (continued)							
13.859	13.859 (0.870)	41	75251			0.00- 53.29	24.69
13.859	13.859 (0.870)	57	34160			0.00- 40.72	11.21
39 MTBE					CAS #: 1634-04-4		
13.997	13.997 (0.878)	73	214745	1.00000	0.9369	80.00- 120.00	100.00
13.997	13.997 (0.878)	57	81546			6.35- 66.35	37.97
13.997	13.997 (0.878)	41	82050			5.74- 65.74	38.21
40 trans-1,2-Dichloroethene					CAS #: 156-60-5		
14.051	14.052 (0.882)	98	51903	1.00000	0.9728	80.00- 120.00	100.00
14.051	14.052 (0.882)	61	162180			272.66- 332.66	312.47
14.051	14.052 (0.882)	96	80722			128.53- 188.53	155.52
43 Hexane					CAS #: 110-54-3		
14.381	14.381 (0.903)	57	195302	1.00000	0.9311	80.00- 120.00	100.00
14.381	14.381 (0.903)	43	137771			41.32- 101.32	70.54
14.381	14.381 (0.903)	86	20300			0.00- 40.13	10.39
45 Isopropyl ether					CAS #: 108-20-3		
14.738	14.738 (0.925)	45	460997	1.00000	0.9409	80.00- 120.00	100.00
14.738	14.738 (0.925)	87	74721			0.00- 45.33	16.21
14.738	14.738 (0.925)	59	42808			0.00- 39.01	9.29
46 1,1-Dichloroethane					CAS #: 75-34-3		
14.765	14.765 (0.927)	63	183318	1.00000	0.9478	80.00- 120.00	100.00
14.765	14.765 (0.927)	65	55532			0.00- 59.80	30.29
47 Vinyl Acetate					CAS #: 108-05-4		
14.820	14.793 (0.930)	86	16929	1.00000	1.012	80.00- 120.00	100.00
14.820	14.793 (0.930)	42	22206			166.91- 226.91	131.17
14.793	14.793 (0.928)	43	343787			2680.08-2740.08	2030.76
49 Ethyl-tert-butyl ether					CAS #: 637-92-3		
15.240	15.240 (0.956)	59	371182	1.00000	0.9734	80.00- 120.00	100.00
15.240	15.240 (0.956)	87	108562			0.00- 59.23	29.25
15.240	15.240 (0.956)	41	73284			0.00- 49.94	19.74
50 cis-1,2-Dichloroethene					CAS #: 156-59-2		
15.592	15.592 (0.979)	98	58063	1.00000	0.9384	80.00- 120.00	100.00
15.592	15.592 (0.979)	61	157695			242.79- 302.79	271.59
15.592	15.592 (0.979)	96	90409			127.33- 187.33	155.71
51 2-Butanone					CAS #: 78-93-3		
15.592	15.572 (0.979)	72	42358	1.00000	1.070	80.00- 120.00	100.00
15.592	15.572 (0.979)	43	278109			687.17- 747.17	656.57

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

   51 2-Butanone (continued)
 15.592  15.572 (0.979)    57     19608                    23.39-  83.39    46.29
-------------------------------------------------------------------------------
   53 Tetrahydrofuran                                CAS #: 109-99-9
 15.933  15.934 (1.000)    42    185287 1.00000    1.016  80.00- 120.00   100.00
 15.933  15.934 (1.000)    71     42039                     0.00-  51.83    22.69
 15.933  15.934 (1.000)    72     37762                     0.00-  54.16    20.38
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83    173053 1.00000   0.9606  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85    110814                    35.10-  95.10    64.03
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.273  16.242 (1.021)    84    111997 1.00000   0.8974  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56    218547                   160.85- 220.85   195.14
 16.242  16.242 (1.019)    41    117435                    75.49- 135.49   104.86
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97    184700 1.00000   0.8991  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99    119197                    33.24-  93.24    64.54
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                           CAS #: 56-23-5
 16.457  16.458 (1.033)   119    170498 1.00000   0.9551  80.00- 120.00   100.00
 16.457  16.458 (1.033)   117    159394                    67.96- 127.96    93.49
                   Sum of Peak Amounts =           0.955
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                         CAS #: 540-84-1
 16.728  16.728 (1.050)    56    205923 1.00000   0.9136  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57    592878                   274.66- 334.66   287.91
 16.728  16.728 (1.050)    41    168907                    54.64- 114.64    82.02
-------------------------------------------------------------------------------
   64 Benzene                                        CAS #: 71-43-2
 16.756  16.756 (0.968)    78    229305 1.00000   0.8889  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77     49983                     0.00-  53.39    21.80
-------------------------------------------------------------------------------
   66 tert-amyl methyl ether                         CAS #: 994-05-8
 16.811  16.811 (0.971)    87     64916 1.00000    1.012  80.00- 120.00   100.00
 16.811  16.811 (0.971)    73    251949                   366.24- 426.24   388.12
 16.811  16.811 (0.971)    55    107288                   130.44- 190.44   165.27
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                             CAS #: 107-06-2
 16.865  16.865 (0.975)    62    143739 1.00000   0.9454  80.00- 120.00   100.00
 16.865  16.865 (0.975)    64     45472                     0.00-  59.72    31.64
-------------------------------------------------------------------------------
   69 Heptane                                        CAS #: 142-82-5
 16.975  16.975 (0.981)    57    108724 1.00000   0.9198  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
69 Heptane (continued)							
16.975	16.975 (0.981)	100	22893			0.00- 51.16	21.06
16.975	16.975 (0.981)	43	233368			180.62- 240.62	214.64
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	127765	1.00000	1.009	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	113148			62.98- 122.98	88.56
17.717	17.717 (1.024)	97	72738			29.44- 89.44	56.93
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	150940	1.00000	0.9673	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	66076			16.83- 76.83	43.78
17.964	17.964 (1.038)	55	189976			97.27- 157.27	125.86
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	113135	1.00000	0.9284	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	83712			43.06- 103.06	73.99
18.156	18.156 (1.049)	41	80207			36.58- 96.58	70.89
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	80344	1.00000	1.036	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	80231			74.73- 134.73	99.86
18.266	18.266 (1.056)	57	24705			4.83- 64.83	30.75
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	182374	1.00000	0.9906	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	106321			33.73- 93.73	58.30
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	143017	1.00000	0.9482	80.00- 120.00	100.00
19.408	19.386 (1.122)	77	45081			0.66- 60.66	31.52
19.386	19.386 (1.120)	39	107624			43.67- 103.67	75.25
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	368368	1.00000	1.020	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	126847			3.17- 63.17	34.43
19.588	19.588 (1.132)	85	32839			0.00- 40.09	8.91
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	274050	1.00000	0.9471	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	164978			28.34- 88.34	60.20
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	132060	1.00000	0.9935	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	38370			1.98- 61.98	29.05
20.435	20.435 (0.920)	39	93005			41.22- 101.22	70.43

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

   84 1,1,2-Trichloroethane                          CAS #: 79-00-5
 20.758  20.722 (0.935)    97    100328 1.00000   0.9545  80.00- 120.00   100.00
 20.758  20.722 (0.935)    99     72264                   31.80-  91.80    72.03
 20.758  20.722 (0.935)    83     91812                   51.12- 111.12    91.51
-------------------------------------------------------------------------------
   86 Tetrachloroethene                              CAS #: 127-18-4
 20.901  20.901 (0.941)   166    148222 1.00000   0.9024  80.00- 120.00   100.00
 20.901  20.901 (0.941)   129    121102                   46.61- 106.61    81.70
 20.901  20.901 (0.941)   131    114516                   46.38- 106.38    77.26
-------------------------------------------------------------------------------
   87 2-Hexanone                                     CAS #: 591-78-6
 21.045  21.009 (0.948)    58    157977 1.00000    1.124  80.00- 120.00   100.00
 21.045  21.009 (0.948)    43    315885                  184.27- 244.27   199.96
 21.045  21.009 (0.948)   100     19716                    0.00-  44.17    12.48
-------------------------------------------------------------------------------
   89 Dibromochloromethane                           CAS #: 124-48-1
 21.367  21.367 (0.962)   129    196586 1.00000   0.9676  80.00- 120.00   100.00
 21.367  21.367 (0.962)   127    159206                   48.71- 108.71    80.99
-------------------------------------------------------------------------------
   90 1,2-Dibromoethane                              CAS #: 106-93-4
 21.583  21.583 (0.972)   107    178980 1.00000    1.024  80.00- 120.00   100.00
 21.583  21.583 (0.972)   109    167532                   63.80- 123.80    93.60
-------------------------------------------------------------------------------
   93 Chlorobenzene                                  CAS #: 108-90-7
 22.233  22.233 (1.001)   112    244661 1.00000   0.9766  80.00- 120.00   100.00
 22.233  22.233 (1.001)   114     74582                    1.75-  61.75    30.48
 22.233  22.233 (1.001)    77    155575                   24.73-  84.73    63.59
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                  CAS #: 100-41-4
 22.315  22.315 (1.005)   106    108300 1.00000   0.9162  80.00- 120.00   100.00
 22.315  22.315 (1.005)    91    316297                  260.31- 320.31   292.06
-------------------------------------------------------------------------------
   96 m,p-Xylene                                     CAS #: 108-38-3
 22.480  22.452 (1.012)   106    113284 1.00000   0.9455  80.00- 120.00   100.00
 22.480  22.452 (1.012)    91    214226                  157.23- 217.23   189.11
-------------------------------------------------------------------------------
  100 o-Xylene                                       CAS #: 95-47-6
 23.001  23.002 (1.036)   106     99556 1.00000   0.9251  80.00- 120.00   100.00
 23.001  23.002 (1.036)    91    204506                  167.76- 227.76   205.42
-------------------------------------------------------------------------------
  101 Styrene                                        CAS #: 100-42-5
 23.029  23.029 (1.037)   104    144222 1.00000   0.9200  80.00- 120.00   100.00
 23.029  23.029 (1.037)    78     71832                   17.96-  77.96    49.81
-------------------------------------------------------------------------------
  102 Bromoform                                      CAS #: 75-25-2
 23.331  23.331 (1.051)   173    172953 1.00000   0.9656  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
102 Bromoform (continued)							
23.331	23.331 (1.051)	171	92453			22.04- 82.04	53.46
103 Cumene					CAS #: 98-82-8		
23.441	23.441 (1.056)	105	284962	1.00000	0.9497	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	86774			0.00- 59.93	30.45
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	203809	1.00000	0.9054	80.00- 120.00	100.00
23.833	23.833 (1.073)	85	135246			34.94- 94.94	66.36
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	251830	1.00000	0.8654	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	63937			0.00- 56.93	25.39
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	198968	1.00000	0.9024	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	60244			3.10- 63.10	30.28
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	196203	1.00000	0.8465	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	103995			21.49- 81.49	53.00
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	184022	1.00000	0.8775	80.00- 120.00	100.00
24.529	24.529 (1.105)	120	93934			19.48- 79.48	51.04
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	137305	1.00000	0.9008	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	86963			32.42- 92.42	63.34
24.902	24.902 (1.121)	111	52265			8.90- 68.90	38.06
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	136461	1.00000	0.7800	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	92648			34.01- 94.01	67.89
24.992	24.992 (1.125)	111	56288			8.58- 68.58	41.25
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.127	25.127 (1.132)	91	161141	1.00000	0.9500	80.00- 120.00	100.00
25.127	25.127 (1.132)	126	38189			0.00- 54.03	23.70
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	138467	1.00000	0.8577	80.00- 120.00	100.00
25.396	25.396 (1.144)	148	91750			32.53- 92.53	66.26
25.396	25.396 (1.144)	111	57755			10.66- 70.66	41.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	154837	1.00000	0.9667	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	151603			66.06- 126.06	97.91
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.167	27.167 (1.223)	225	102116	1.00000	0.9310	80.00- 120.00	100.00
27.167	27.167 (1.223)	223	64937			32.60- 92.60	63.59
133 Naphthalene					CAS #: 91-20-3		
27.391	27.368 (1.234)	128	29821	0.10000	0.1240	80.00- 120.00	100.00
27.391	27.368 (1.234)	127	9004			0.00- 44.62	30.19

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012309.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 1.0ppbv (1.0ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	257226	1.56
71 1,4-Difluorobenze	1019789	611873	1427705	1015757	-0.40
92 Chlorobenzene-d5	833326	499996	1166656	790318	-5.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012309.d

Date : 23-JAN-2015 19:01

Client ID: Level 8

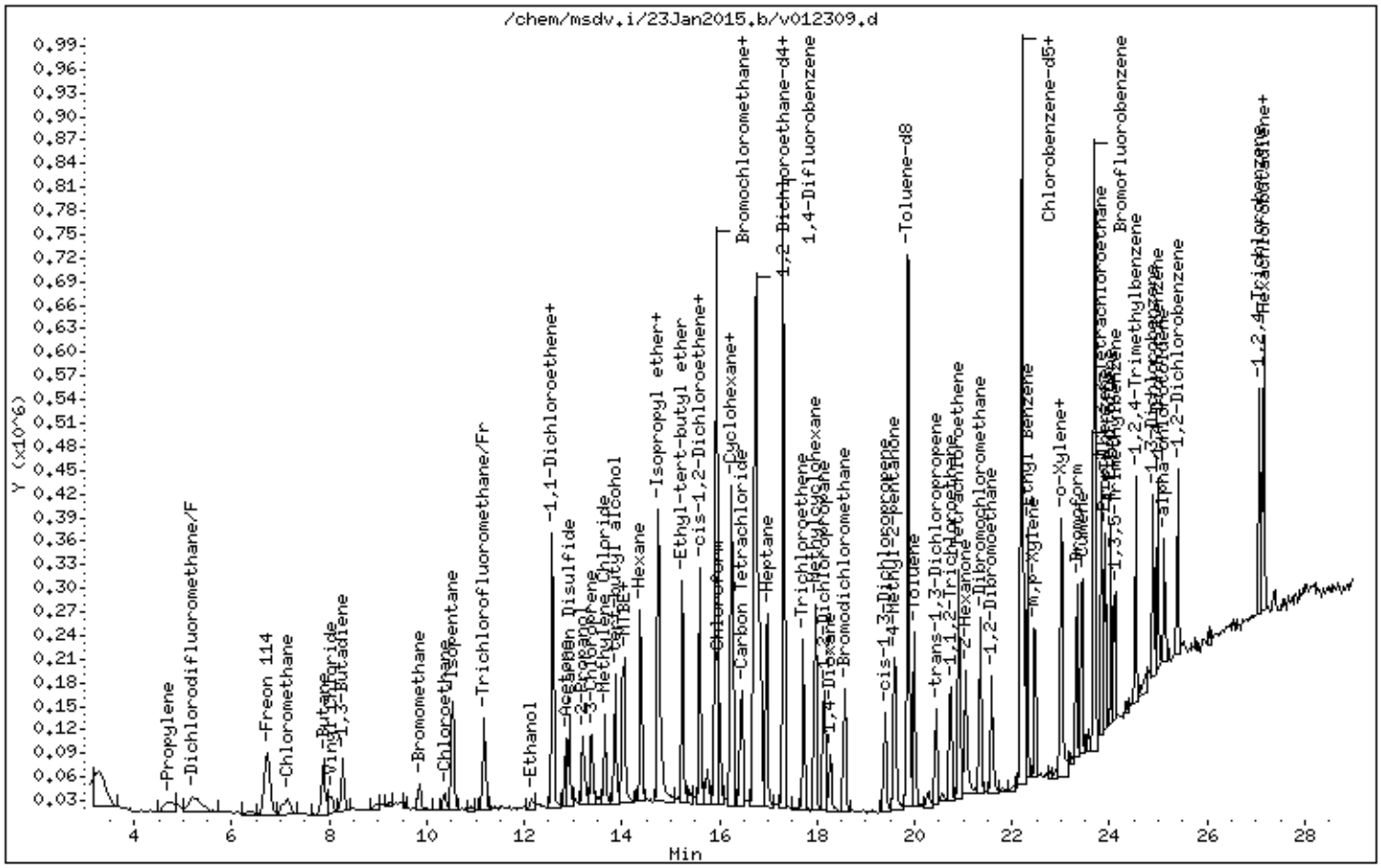
Instrument: msdv.i

Sample Info: 250mL# 2716-10

Operator: gh

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/27Jan2015.b/v012709.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 27-JAN-2015 14:21
Operator : ef Inst ID: msdv.i
Smp Info : 250mL# 2716-22
Misc Info : 5.0ppbv (5.0ppbv) AT-1
Comment : Low Level GC-MS
Method : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Meth Date : 28-Jan-2015 08:22 efinn Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1crv.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	230970	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	182935			0.00- 30.00	79.20
15.934	15.934 (1.000)	49	485747			0.00- 30.00	210.31
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	947338	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	140610			0.00- 30.00	14.84
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	747374	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	419329			0.00- 30.00	56.11
1 Freon 134a						CAS #: 811-97-2	
4.560	4.560 (0.286)	83	220225	5.00000	4.837	80.00- 120.00	100.00
4.560	4.560 (0.286)	69	171717			0.00- 30.00	77.97
2 Freon 152A						CAS #: 75-37-6	
5.051	5.051 (0.317)	65	144369	5.00000	4.718	80.00- 120.00	100.00
5.051	5.051 (0.317)	51	377962			0.00- 30.00	261.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon 22					CAS #: 75-45-6		
5.844	5.844 (0.367)	51	615768	5.00000	4.842	80.00- 120.00	100.00
5.806	5.806 (0.364)	67	58571			0.00- 30.00	9.51
5.882	5.882 (0.369)	85	2716			0.00- 30.00	0.44
218 Freon 142b					CAS #: 75-68-3		
7.015	7.015 (0.440)	65	560696	5.00000	4.800	80.00- 120.00	100.00
7.015	7.015 (0.440)	45	179277			0.00- 30.00	31.97
14 Freon 21					CAS #: 75-43-4		
11.280	11.280 (0.708)	67	659158	5.00000	4.854	80.00- 120.00	100.00
11.280	11.280 (0.708)	69	194438			0.00- 30.00	29.50
11.280	11.280 (0.708)	47	96382			0.00- 30.00	14.62
216 1,2-Dichlorotrifluoroethane					CAS #: 354-23-4		
12.349	12.349 (0.775)	117	474548	5.00000	4.826	80.00- 120.00	100.00
12.321	12.321 (0.773)	67	656268			0.00- 30.00	138.29
217 Freon 123					CAS #: 306-83-2		
12.514	12.514 (0.785)	83	727139	5.00000	4.922	80.00- 120.00	100.00
12.514	12.514 (0.785)	133	165761			0.00- 30.00	22.80
12.514	12.514 (0.785)	85	488874			0.00- 30.00	67.23
211 Cyclopentene					CAS #: 142-29-0		
13.420	13.420 (0.842)	67	587182	5.00000	4.886	80.00- 120.00	100.00
13.420	13.420 (0.842)	68	221586			0.00- 30.00	37.74
13.420	13.420 (0.842)	53	189979			0.00- 30.00	32.35
210 1-Propanol					CAS #: 71-23-8		
14.903	14.903 (0.935)	59	96420	5.00000	6.633	80.00- 120.00	100.00
14.903	14.903 (0.935)	42	94525			0.00- 30.00	98.03
14.903	14.903 (0.935)	41	61088			0.00- 30.00	63.36
215 2,2-Dichloropropane					CAS #: 594-20-7		
15.551	15.551 (0.976)	77	590506	5.00000	4.898	80.00- 120.00	100.00
15.551	15.551 (0.976)	79	193773			0.00- 30.00	32.81
15.551	15.551 (0.976)	97	129352			0.00- 30.00	21.91
56 1,1-Dicholoropropene					CAS #: 563-58-6		
16.458	16.458 (1.033)	110	212747	5.00000	5.195	80.00- 120.00	100.00
16.458	16.458 (1.033)	75	520411			0.00- 30.00	244.61
214 Isobutanol					CAS #: 78-83-1		
16.458	16.458 (1.033)	41	564959	5.00000	7.566	80.00- 120.00	100.00
16.519	16.519 (1.037)	43	523602			0.00- 30.00	92.68
16.519	16.519 (1.037)	39	356653			0.00- 30.00	63.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
206 1-Butanol					CAS #: 71-36-3		
17.470	17.470 (1.010)	56	689925	5.00000	6.676	80.00- 120.00	100.00
17.470	17.470 (1.010)	41	512059			0.00- 30.00	74.22
17.470	17.470 (1.010)	43	411862			0.00- 30.00	59.70
83 1,3-Dichloropropane					CAS #: 142-28-9		
21.045	21.045 (1.216)	76	610866	5.00000	4.987	80.00- 120.00	100.00
21.045	21.045 (1.216)	41	634168			0.00- 30.00	103.81
21.045	21.045 (1.216)	78	186361			0.00- 30.00	30.51
204 Butyl Acetate					CAS #: 123-86-4		
21.116	21.116 (1.220)	56	296487	5.00000	5.394	80.00- 120.00	100.00
21.116	21.116 (1.220)	73	66723			0.00- 30.00	22.50
21.116	21.116 (1.220)	43	774303			0.00- 30.00	261.16
91 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
22.343	22.343 (1.006)	131	631577	5.00000	4.706	80.00- 120.00	100.00
22.343	22.343 (1.006)	117	420390			0.00- 30.00	66.56
22.343	22.343 (1.006)	95	228827			0.00- 30.00	36.23
205 2-Heptanone					CAS #: 110-43-0		
23.111	23.111 (1.041)	58	595777	5.00000	4.791	80.00- 120.00	100.00
23.111	23.111 (1.041)	43	1172304			0.00- 30.00	196.77
209 Cyclohexanone					CAS #: 108-94-1		
23.652	23.652 (1.065)	55	570840	5.00000	5.131	80.00- 120.00	100.00
23.652	23.652 (1.065)	98	160233			0.00- 30.00	28.07
23.652	23.652 (1.065)	42	395756			0.00- 30.00	69.33
97 Bromobenzene					CAS #: 108-86-1		
23.884	23.884 (1.076)	156	499112	5.00000	4.668	80.00- 120.00	100.00
23.884	23.884 (1.076)	158	480489			0.00- 30.00	96.27
23.884	23.884 (1.076)	77	911629			0.00- 30.00	182.65
105 1,2,3-Trichloropropane					CAS #: 96-18-4		
23.910	23.910 (1.077)	110	268709	5.00000	4.724	80.00- 120.00	100.00
23.910	23.910 (1.077)	75	727546			0.00- 30.00	270.76
23.910	23.910 (1.077)	61	251525			0.00- 30.00	93.60
107 2-Chlorotoluene					CAS #: 95-49-8		
24.065	24.065 (1.084)	126	301836	5.00000	4.756	80.00- 120.00	100.00
24.065	24.065 (1.084)	91	778942			0.00- 30.00	258.07
24.065	24.065 (1.084)	65	83110			0.00- 30.00	27.53
109 4-Chlorotoluene					CAS #: 106-43-4		
24.194	24.194 (1.090)	126	243445	5.00000	4.704	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
109 4-Chlorotoluene (continued)							
24.194	24.194 (1.090)	91	654549			0.00- 30.00	268.87
24.194	24.194 (1.090)	63	96997			0.00- 30.00	39.84
213 Diisobutyl Ketone					CAS #: 108-83-8		
24.220	24.220 (1.091)	57	809862	5.00000	3.541	80.00- 120.00	100.00
24.220	24.220 (1.091)	85	469599			0.00- 30.00	57.99
115 tert-Butylbenzene					CAS #: 98-06-6		
24.478	24.478 (1.102)	119	667775	5.00000	4.645	80.00- 120.00	100.00
24.478	24.478 (1.102)	134	166275			0.00- 30.00	24.90
24.478	24.478 (1.102)	91	394730			0.00- 30.00	59.11
212 Pentachloroethane					CAS #: 76-01-7		
24.555	24.555 (1.106)	167	422000	5.00000	4.813	80.00- 120.00	100.00
24.555	24.555 (1.106)	117	401206			0.00- 30.00	95.07
24.555	24.555 (1.106)	169	196514			0.00- 30.00	46.57
119 sec-Butylbenzene					CAS #: 135-98-8		
24.710	24.710 (1.113)	105	842260	5.00000	4.495	80.00- 120.00	100.00
24.710	24.710 (1.113)	134	195000			0.00- 30.00	23.15
24.710	24.710 (1.113)	91	126438			0.00- 30.00	15.01
116 p-Cymene					CAS #: 99-87-6		
24.835	24.835 (1.118)	119	750383	5.00000	3.931	80.00- 120.00	100.00
24.835	24.835 (1.118)	134	199676			0.00- 30.00	26.61
24.835	24.835 (1.118)	91	152810			0.00- 30.00	20.36
121 1,2,3-trimethylbenzene					CAS #: 526-73-8		
24.992	24.992 (1.125)	120	348202	5.00000	4.086	80.00- 120.00	100.00
24.992	24.992 (1.125)	105	718701			0.00- 30.00	206.40
24.992	24.992 (1.125)	77	81412			0.00- 30.00	23.38
123 Butylbenzene					CAS #: 104-51-8		
25.261	25.261 (1.138)	134	236726	5.00000	3.606	80.00- 120.00	100.00
25.261	25.261 (1.138)	91	750832			0.00- 30.00	317.17
25.261	25.261 (1.138)	92	394875			0.00- 30.00	166.81
129 1,2-dibromo-3-chloropropane					CAS #: 96-12-8		
26.203	26.203 (1.180)	157	424845	5.00000	4.858	80.00- 120.00	100.00
26.203	26.203 (1.180)	75	354451			0.00- 30.00	83.43
26.203	26.203 (1.180)	155	335995			0.00- 30.00	79.09

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012709.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/27Jan2015.b/v15l0123b.m
Misc Info: 5.0ppbv (5.0ppbv) AT-1

Calibration Date: 27-JAN-2015
Calibration Time: 14:21
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	230970	138582	323358	230970	0.00
71 1,4-Difluorobenze	947338	568403	1326273	947338	0.00
92 Chlorobenzene-d5	747374	448424	1046324	747374	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/27Jan2015.b/v012709.d

Date : 27-JAN-2015 14:21

Client ID: Level 9

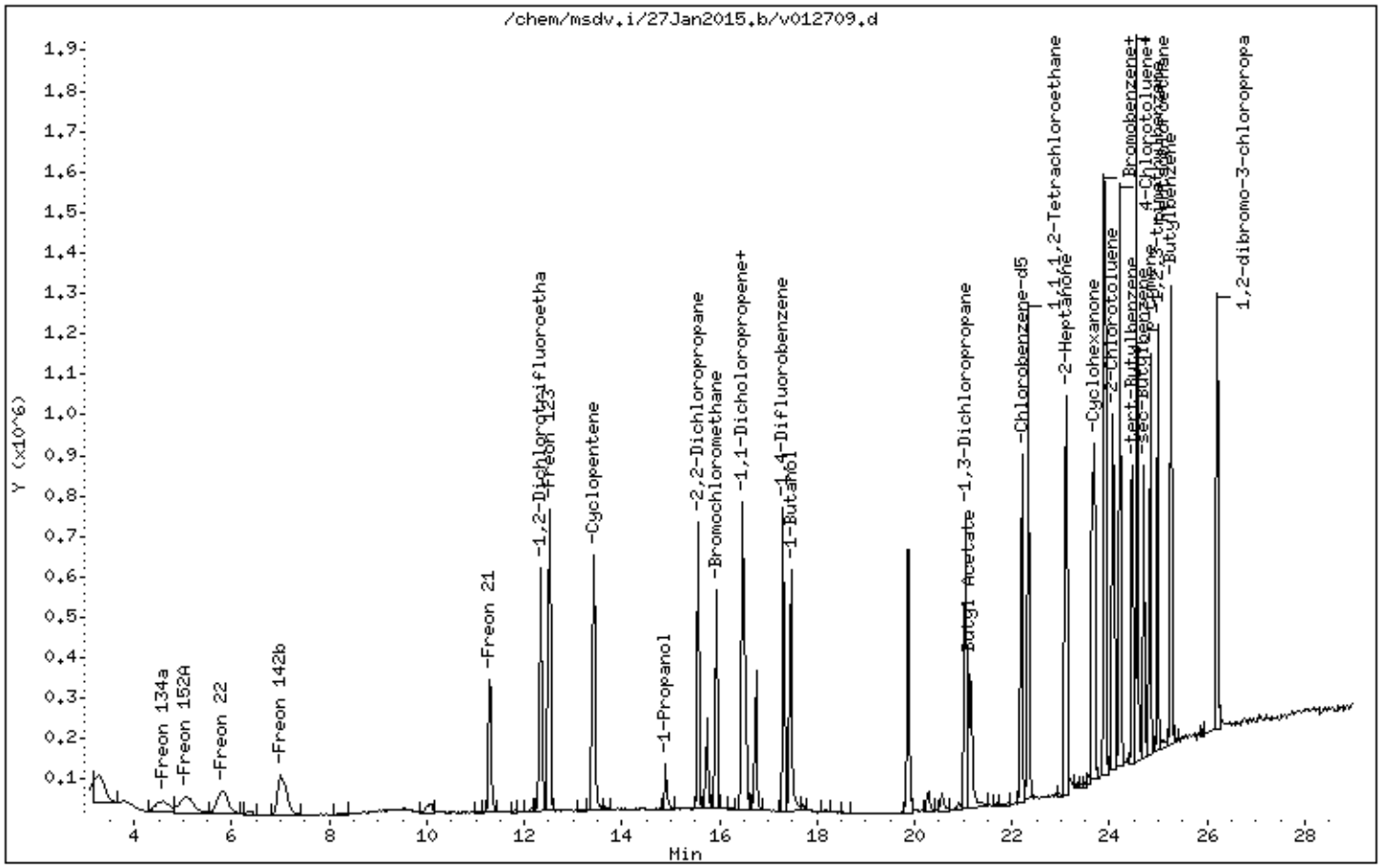
Instrument: msdv.i

Sample Info: 250mL# 2716-22

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012310.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 23-JAN-2015 19:41
Operator : gh Inst ID: msdv.i
Smp Info : 25mL# 2687-244
Misc Info : 5.0ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:20 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 19:41 Cal File: v012310.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HiLoFULLcrv.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.933	15.934 (1.000)	130	250660	5.00000		80.00- 120.00	100.00
15.933	15.934 (1.000)	128	193066			48.09- 108.09	77.02
15.933	15.934 (1.000)	49	543500			196.04- 256.04	216.83
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	1006086	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	157869			0.00- 45.23	15.69
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	807172	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	453452			23.86- 83.86	56.18
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	384644	5.00000	4.997	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	204687			25.13- 85.13	53.21
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.856	19.879 (1.147)	98	958159	5.00000	5.086	80.00- 120.00	100.00
19.856	19.879 (1.147)	70	103601			0.00- 40.74	10.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)							
19.856	19.879 (1.147)	100	612678			36.73- 96.73	63.94
$ 106 Bromofluorobenzene					CAS #: 460-00-4		
23.704	23.704 (1.067)	174	387704	5.00000	5.217	80.00- 120.00	100.00
23.678	23.704 (1.066)	95	495513			95.17- 155.17	127.81
23.704	23.704 (1.067)	176	378936			64.74- 124.74	97.74
3 Propylene					CAS #: 115-07-1		
4.674	4.674 (0.293)	41	558475	5.00000	5.225	80.00- 120.00	100.00
4.674	4.674 (0.293)	42	389767			37.91- 97.91	69.79
4.674	4.674 (0.293)	39	380582			38.58- 98.58	68.15
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.202	5.202 (0.326)	85	1094132	5.00000	5.290	80.00- 120.00	100.00
5.202	5.202 (0.326)	87	351991			1.73- 61.73	32.17
6 Freon 114					CAS #: 76-14-2		
6.713	6.713 (0.421)	135	927773	5.00000	5.387	80.00- 120.00	100.00
6.713	6.713 (0.421)	137	290060			2.34- 62.34	31.26
6.713	6.713 (0.421)	85	1150912			93.53- 153.53	124.05
8 Chloromethane					CAS #: 74-87-3		
7.052	7.053 (0.443)	50	693364	5.00000	5.083	80.00- 120.00	100.00
7.052	7.053 (0.443)	52	220897			1.57- 61.57	31.86
9 Butane					CAS #: 106-97-8		
7.885	7.885 (0.495)	58	128209	5.00000	5.409	80.00- 120.00	100.00
7.885	7.885 (0.495)	43	1135015			879.44- 939.44	885.28
10 Vinyl Chloride					CAS #: 75-01-4		
8.009	8.009 (0.503)	62	558413	5.00000	5.494	80.00- 120.00	100.00
8.009	8.009 (0.503)	64	166362			0.00- 59.13	29.79
11 1,3-Butadiene					CAS #: 106-99-0		
8.257	8.257 (0.518)	54	545343	5.00000	5.476	80.00- 120.00	100.00
8.257	8.257 (0.518)	39	545199			70.79- 130.79	99.97
12 Bromomethane					CAS #: 74-83-9		
9.834	9.835 (0.617)	94	363055	5.00000	5.848	80.00- 120.00	100.00
9.834	9.835 (0.617)	96	343548			64.45- 124.45	94.63
17 Chloroethane					CAS #: 75-00-3		
10.340	10.340 (0.649)	64	249679	5.00000	5.652	80.00- 120.00	100.00
10.340	10.340 (0.649)	66	72460			0.00- 59.36	29.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	536148	5.00000	5.496	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	894764			135.34- 195.34	166.89
10.533	10.533 (0.661)	42	761965			110.64- 170.64	142.12
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.184	11.184 (0.702)	101	1169908	5.00000	5.328	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	746685			34.40- 94.40	63.82
24 Ethanol					CAS #: 64-17-5		
12.101	12.102 (0.760)	45	281004	5.00000	6.207	80.00- 120.00	100.00
12.101	12.102 (0.760)	46	101279			9.93- 69.93	36.04
12.101	12.102 (0.760)	43	50368			0.00- 50.31	17.92
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.568	12.569 (0.789)	98	291992	5.00000	5.600	80.00- 120.00	100.00
12.568	12.569 (0.789)	61	975350			316.34- 376.34	334.03
12.568	12.569 (0.789)	96	460540			133.12- 193.12	157.72
28 Freon 113					CAS #: 76-13-1		
12.568	12.569 (0.789)	151	831984	5.00000	5.317	80.00- 120.00	100.00
12.568	12.569 (0.789)	153	541211			33.38- 93.38	65.05
12.568	12.569 (0.789)	101	966949			85.19- 145.19	116.22
31 Acetone					CAS #: 67-64-1		
12.816	12.816 (0.804)	58	293231	5.00000	4.811	80.00- 120.00	100.00
12.816	12.816 (0.804)	43	1065328			326.03- 386.03	363.31
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	1187672	5.00000	5.481	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.365	13.365 (0.839)	76	179584	5.00000	5.547	80.00- 120.00	100.00
13.365	13.365 (0.839)	41	886966			456.88- 516.88	493.90
34 2-Propanol					CAS #: 67-63-0		
13.173	13.173 (0.827)	45	1243888	5.00000	5.351	80.00- 120.00	100.00
13.173	13.173 (0.827)	43	213841			0.00- 47.97	17.19
13.173	13.173 (0.827)	59	39724			0.00- 33.25	3.19
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	384703	5.00000	5.232	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	897081			198.57- 258.57	233.19
13.640	13.640 (0.856)	51	275851			41.48- 101.48	71.70
38 tert-butyl alcohol					CAS #: 75-65-0		
13.859	13.859 (0.870)	59	1267479	5.00000	4.610	80.00- 120.00	100.00

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

   38 tert-butyl alcohol (continued)
 13.859  13.859 (0.870)    41    303443                     0.00-  53.29    23.94
 13.859  13.859 (0.870)    57    142876                     0.00-  40.72    11.27
-------------------------------------------------------------------------------
   39 MTBE                                          CAS #: 1634-04-4
 13.997  13.997 (0.878)    73   1259583 5.00000    5.499  80.00- 120.00   100.00
 13.997  13.997 (0.878)    57    460677                     6.35-  66.35    36.57
 13.997  13.997 (0.878)    41    443905                     5.74-  65.74    35.24
-------------------------------------------------------------------------------
   40 trans-1,2-Dichloroethene                      CAS #: 156-60-5
 14.051  14.052 (0.882)    98    299404 5.00000    5.589  80.00- 120.00   100.00
 14.051  14.052 (0.882)    61    918060                   272.66- 332.66   306.63
 14.051  14.052 (0.882)    96    473721                   128.53- 188.53   158.22
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57   1144608 5.00000    5.469  80.00- 120.00   100.00
 14.381  14.381 (0.903)    43    815179                    41.32- 101.32    71.22
 14.381  14.381 (0.903)    86    111359                     0.00-  40.13     9.73
-------------------------------------------------------------------------------
   45 Isopropyl ether                               CAS #: 108-20-3
 14.738  14.738 (0.925)    45   2712074 5.00000    5.493  80.00- 120.00   100.00
 14.738  14.738 (0.925)    87    413444                     0.00-  45.33    15.24
 14.738  14.738 (0.925)    59    250541                     0.00-  39.01     9.24
-------------------------------------------------------------------------------
   46 1,1-Dichloroethane                            CAS #: 75-34-3
 14.765  14.765 (0.927)    63   1039843 5.00000    5.405  80.00- 120.00   100.00
 14.765  14.765 (0.927)    65    320687                     0.00-  59.80    30.84
-------------------------------------------------------------------------------
   47 Vinyl Acetate                                 CAS #: 108-05-4
 14.793  14.793 (0.928)    86    113893 5.00000    6.354  80.00- 120.00   100.00
 14.793  14.793 (0.928)    42    251033                   166.91- 226.91   220.41
 14.793  14.793 (0.928)    43   3290640                  2680.08-2740.08  2889.24
-------------------------------------------------------------------------------
   49 Ethyl-tert-butyl ether                        CAS #: 637-92-3
 15.240  15.240 (0.956)    59   2093086 5.00000    5.460  80.00- 120.00   100.00
 15.240  15.240 (0.956)    87    607089                     0.00-  59.23    29.00
 15.240  15.240 (0.956)    41    435009                     0.00-  49.94    20.78
-------------------------------------------------------------------------------
   50 cis-1,2-Dichloroethene                        CAS #: 156-59-2
 15.592  15.592 (0.979)    98    320396 5.00000    5.248  80.00- 120.00   100.00
 15.592  15.592 (0.979)    61    876455                   242.79- 302.79   273.55
 15.592  15.592 (0.979)    96    518519                   127.33- 187.33   161.84
-------------------------------------------------------------------------------
   51 2-Butanone                                    CAS #: 78-93-3
 15.592  15.572 (0.979)    72    217077 5.00000    5.457  80.00- 120.00   100.00
 15.572  15.572 (0.977)    43   1548910                   687.17- 747.17   713.53
```

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

   51 2-Butanone (continued)
 15.572  15.572 (0.977)    57    108060                    23.39-  83.39    49.78
-------------------------------------------------------------------------------
   53 Tetrahydrofuran                                CAS #: 109-99-9
 15.933  15.934 (1.000)    42    914567 5.00000    5.109  80.00- 120.00   100.00
 15.933  15.934 (1.000)    71    202680                     0.00-  51.83    22.16
 15.933  15.934 (1.000)    72    227146                     0.00-  54.16    24.84
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83    966222 5.00000    5.395  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85    637401                    35.10-  95.10    65.97
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.242  16.242 (1.019)    84    643964 5.00000    5.234  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56   1237423                   160.85- 220.85   192.16
 16.242  16.242 (1.019)    41    688887                    75.49- 135.49   106.98
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97   1037401 5.00000    5.151  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99    668731                    33.24-  93.24    64.46
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                           CAS #: 56-23-5
 16.457  16.458 (1.033)   119   1033167 5.00000    5.759  80.00- 120.00   100.00
 16.457  16.458 (1.033)   117   1000218                    67.96- 127.96    96.81
                   Sum of Peak Amounts =            5.76
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                         CAS #: 540-84-1
 16.728  16.728 (1.050)    56   1174228 5.00000    5.273  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57   3509157                   274.66- 334.66   298.85
 16.728  16.728 (1.050)    41    993347                    54.64- 114.64    84.60
-------------------------------------------------------------------------------
   64 Benzene                                        CAS #: 71-43-2
 16.756  16.756 (0.968)    78   1327921 5.00000    5.156  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77    307179                     0.00-  53.39    23.13
-------------------------------------------------------------------------------
   66 tert-amyl methyl ether                         CAS #: 994-05-8
 16.811  16.811 (0.971)    87    356703 5.00000    5.445  80.00- 120.00   100.00
 16.811  16.811 (0.971)    73   1417400                   366.24- 426.24   397.36
 16.811  16.811 (0.971)    55    572372                   130.44- 190.44   160.46
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                             CAS #: 107-06-2
 16.865  16.865 (0.975)    62    806670 5.00000    5.281  80.00- 120.00   100.00
 16.865  16.865 (0.975)    64    238569                     0.00-  59.72    29.57
-------------------------------------------------------------------------------
   69 Heptane                                        CAS #: 142-82-5
 16.975  16.975 (0.981)    57    657966 5.00000    5.484  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
69 Heptane (continued)							
16.975	16.975 (0.981)	100	139697			0.00- 51.16	21.23
16.975	16.975 (0.981)	43	1422123			180.62- 240.62	216.14
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	714314	5.00000	5.568	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	662558			62.98- 122.98	92.75
17.717	17.717 (1.024)	97	436497			29.44- 89.44	61.11
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	863378	5.00000	5.427	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	420297			16.83- 76.83	48.68
17.964	17.964 (1.038)	55	1116332			97.27- 157.27	129.30
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	685404	5.00000	5.529	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	509340			43.06- 103.06	74.31
18.156	18.156 (1.049)	41	451659			36.58- 96.58	65.90
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	353107	5.00000	4.672	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	353959			74.73- 134.73	100.24
18.266	18.266 (1.056)	57	116213			4.83- 64.83	32.91
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	1020395	5.00000	5.487	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	659064			33.73- 93.73	64.59
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	847941	5.00000	5.526	80.00- 120.00	100.00
19.386	19.386 (1.120)	77	265436			0.66- 60.66	31.30
19.386	19.386 (1.120)	39	630103			43.67- 103.67	74.31
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.587	19.588 (1.132)	43	1797385	5.00000	5.021	80.00- 120.00	100.00
19.587	19.588 (1.132)	58	584627			3.17- 63.17	32.53
19.587	19.588 (1.132)	85	179830			0.00- 40.09	10.01
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	1559591	5.00000	5.347	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	919042			28.34- 88.34	58.93
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	755346	5.00000	5.441	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	241736			1.98- 61.98	32.00
20.435	20.435 (0.920)	39	542658			41.22- 101.22	71.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
84 1,1,2-Trichloroethane					CAS #: 79-00-5		
20.722	20.722 (0.933)	97	626576	5.00000	5.678	80.00- 120.00	100.00
20.758	20.722 (0.935)	99	392642			31.80- 91.80	62.66
20.722	20.722 (0.933)	83	525481			51.12- 111.12	83.87
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	903329	5.00000	5.317	80.00- 120.00	100.00
20.901	20.901 (0.941)	129	687379			46.61- 106.61	76.09
20.901	20.901 (0.941)	131	702836			46.38- 106.38	77.81
87 2-Hexanone					CAS #: 591-78-6		
21.044	21.009 (0.948)	58	721236	5.00000	5.019	80.00- 120.00	100.00
21.044	21.009 (0.948)	43	1546901			184.27- 244.27	214.48
21.044	21.009 (0.948)	100	94619			0.00- 44.17	13.12
89 Dibromochloromethane					CAS #: 124-48-1		
21.367	21.367 (0.962)	129	1193331	5.00000	5.610	80.00- 120.00	100.00
21.367	21.367 (0.962)	127	919694			48.71- 108.71	77.07
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.583	21.583 (0.972)	107	1040127	5.00000	5.670	80.00- 120.00	100.00
21.583	21.583 (0.972)	109	985712			63.80- 123.80	94.77
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	1366045	5.00000	5.268	80.00- 120.00	100.00
22.233	22.233 (1.001)	114	427065			1.75- 61.75	31.26
22.233	22.233 (1.001)	77	746491			24.73- 84.73	54.65
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	642412	5.00000	5.254	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	1855628			260.31- 320.31	288.85
96 m,p-Xylene					CAS #: 108-38-3		
22.452	22.452 (1.011)	106	631458	5.00000	5.127	80.00- 120.00	100.00
22.452	22.452 (1.011)	91	1214066			157.23- 217.23	192.26
100 o-Xylene					CAS #: 95-47-6		
23.001	23.002 (1.036)	106	609157	5.00000	5.425	80.00- 120.00	100.00
23.001	23.002 (1.036)	91	1189697			167.76- 227.76	195.30
101 Styrene					CAS #: 100-42-5		
23.029	23.029 (1.037)	104	899727	5.00000	5.484	80.00- 120.00	100.00
23.029	23.029 (1.037)	78	436452			17.96- 77.96	48.51
102 Bromoform					CAS #: 75-25-2		
23.331	23.331 (1.051)	173	1089565	5.00000	5.772	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
102 Bromoform (continued)							
23.331	23.331 (1.051)	171	550108			22.04- 82.04	50.49
103 Cumene					CAS #: 98-82-8		
23.413	23.441 (1.054)	105	1690906	5.00000	5.406	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	518497			0.00- 59.93	30.66
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	1112133	5.00000	4.864	80.00- 120.00	100.00
23.833	23.833 (1.073)	85	706389			34.94- 94.94	63.52
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	1482743	5.00000	4.991	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	386584			0.00- 56.93	26.07
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	1127332	5.00000	5.005	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	388156			3.10- 63.10	34.43
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	1144636	5.00000	4.867	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	595741			21.49- 81.49	52.05
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	1024745	5.00000	4.826	80.00- 120.00	100.00
24.529	24.529 (1.105)	120	508375			19.48- 79.48	49.61
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	797964	5.00000	5.104	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	502203			32.42- 92.42	62.94
24.902	24.902 (1.121)	111	307063			8.90- 68.90	38.48
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	714083	5.00000	4.135	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	450232			34.01- 94.01	63.05
24.992	24.992 (1.125)	111	267465			8.58- 68.58	37.46
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.127	25.127 (1.132)	91	1029499	5.00000	5.675	80.00- 120.00	100.00
25.127	25.127 (1.132)	126	241440			0.00- 54.03	23.45
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	718429	5.00000	4.453	80.00- 120.00	100.00
25.396	25.396 (1.144)	148	462758			32.53- 92.53	64.41
25.396	25.396 (1.144)	111	298450			10.66- 70.66	41.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	574251	5.00000	3.694	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	553199			66.06- 126.06	96.33
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.167	27.167 (1.223)	225	402549	5.00000	3.808	80.00- 120.00	100.00
27.167	27.167 (1.223)	223	252147			32.60- 92.60	62.64
133 Naphthalene					CAS #: 91-20-3		
27.368	27.368 (1.232)	128	100614	0.50000	0.4359	80.00- 120.00	100.00
27.368	27.368 (1.232)	127	16011			0.00- 44.62	15.91

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012310.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 5.0ppbv (50ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	250660	-1.03
71 1,4-Difluorobenze	1019789	611873	1427705	1006086	-1.34
92 Chlorobenzene-d5	833326	499996	1166656	807172	-3.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012310.d

Date : 23-JAN-2015 19:41

Client ID: Level 9

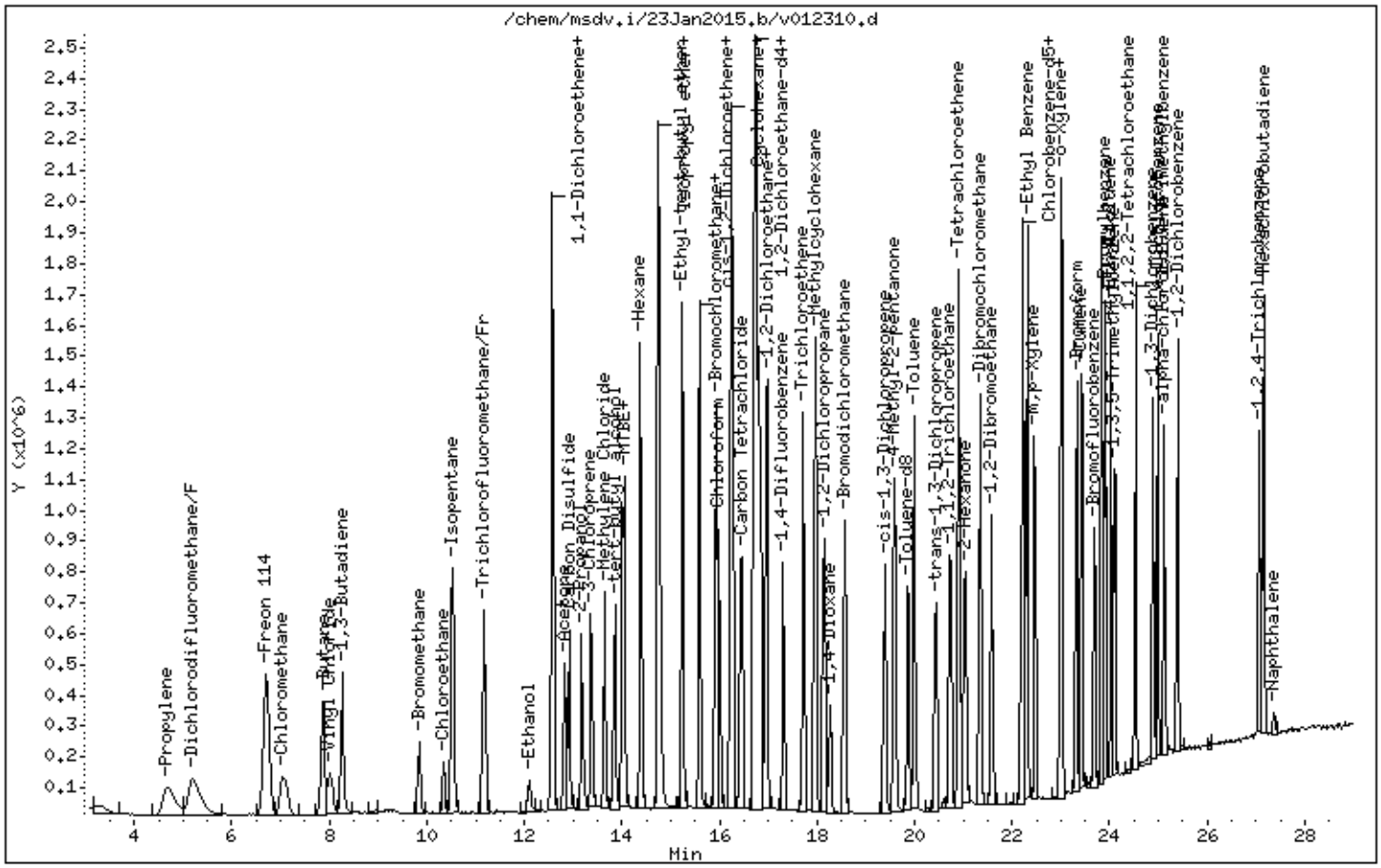
Instrument: msdv.i

Sample Info: 25mL# 2687-244

Operator: gh

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012311.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 23-JAN-2015 20:25
Operator : gd Inst ID: msdv.i
Smp Info : 50mL# 2687-244
Misc Info : 10ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:20 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 20:25 Cal File: v012311.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HiLoFULLcrv.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.934	15.934 (1.000)	130	253263	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	197781			48.09- 108.09	78.09
15.934	15.934 (1.000)	49	572466			196.04- 256.04	226.04
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	1019789	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	155303			0.00- 45.23	15.23
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	833326	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	448858			23.86- 83.86	53.86
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	404009	5.00000	5.089	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	222736			25.13- 85.13	55.13
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.879	19.879 (1.149)	98	954058	5.00000	4.996	80.00- 120.00	100.00
19.857	19.879 (1.147)	70	102445			0.00- 40.74	10.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)							
19.857	19.879 (1.147)	100	636609			36.73- 96.73	66.73
$ 106 Bromofluorobenzene					CAS #: 460-00-4		
23.704	23.704 (1.067)	174	394766	5.00000	5.055	80.00- 120.00	100.00
23.678	23.704 (1.066)	95	494140			95.17- 155.17	125.17
23.704	23.704 (1.067)	176	373993			64.74- 124.74	94.74
3 Propylene					CAS #: 115-07-1		
4.674	4.674 (0.293)	41	1031161	10.0000	9.941	80.00- 120.00	100.00
4.674	4.674 (0.293)	42	700238			37.91- 97.91	67.91
4.674	4.674 (0.293)	39	707158			38.58- 98.58	68.58
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.202	5.202 (0.326)	85	2010332	10.0000	9.957	80.00- 120.00	100.00
5.202	5.202 (0.326)	87	637883			1.73- 61.73	31.73
6 Freon 114					CAS #: 76-14-2		
6.713	6.713 (0.421)	135	1690089	10.0000	9.957	80.00- 120.00	100.00
6.713	6.713 (0.421)	137	546636			2.34- 62.34	32.34
6.713	6.713 (0.421)	85	2087746			93.53- 153.53	123.53
8 Chloromethane					CAS #: 74-87-3		
7.053	7.053 (0.443)	50	1262362	10.0000	9.686	80.00- 120.00	100.00
7.053	7.053 (0.443)	52	398573			1.57- 61.57	31.57
9 Butane					CAS #: 106-97-8		
7.885	7.885 (0.495)	58	228474	10.0000	9.861	80.00- 120.00	100.00
7.885	7.885 (0.495)	43	2077844			879.44- 939.44	909.44
10 Vinyl Chloride					CAS #: 75-01-4		
8.009	8.009 (0.503)	62	1023632	10.0000	10.217	80.00- 120.00	100.00
8.009	8.009 (0.503)	64	298142			0.00- 59.13	29.13
11 1,3-Butadiene					CAS #: 106-99-0		
8.257	8.257 (0.518)	54	978410	10.0000	9.938	80.00- 120.00	100.00
8.257	8.257 (0.518)	39	986099			70.79- 130.79	100.79
12 Bromomethane					CAS #: 74-83-9		
9.835	9.835 (0.617)	94	667363	10.0000	10.712	80.00- 120.00	100.00
9.835	9.835 (0.617)	96	630317			64.45- 124.45	94.45
17 Chloroethane					CAS #: 75-00-3		
10.340	10.340 (0.649)	64	455867	10.0000	10.469	80.00- 120.00	100.00
10.340	10.340 (0.649)	66	133823			0.00- 59.36	29.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	991020	10.0000	10.323	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	1638529			135.34- 195.34	165.34
10.533	10.533 (0.661)	42	1393764			110.64- 170.64	140.64
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.184	11.184 (0.702)	101	2111688	10.0000	9.812	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	1359879			34.40- 94.40	64.40
24 Ethanol					CAS #: 64-17-5		
12.102	12.102 (0.760)	45	504649	10.0000	10.906	80.00- 120.00	100.00
12.102	12.102 (0.760)	46	201496			9.93- 69.93	39.93
12.102	12.102 (0.760)	43	102502			0.00- 50.31	20.31
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.569	12.569 (0.789)	98	519481	10.0000	10.044	80.00- 120.00	100.00
12.569	12.569 (0.789)	61	1799155			316.34- 376.34	346.34
12.569	12.569 (0.789)	96	847398			133.12- 193.12	163.12
28 Freon 113					CAS #: 76-13-1		
12.569	12.569 (0.789)	151	1524756	10.0000	9.899	80.00- 120.00	100.00
12.569	12.569 (0.789)	153	966319			33.38- 93.38	63.38
12.569	12.569 (0.789)	101	1756389			85.19- 145.19	115.19
31 Acetone					CAS #: 67-64-1		
12.816	12.816 (0.804)	58	554502	10.0000	9.482	80.00- 120.00	100.00
12.816	12.816 (0.804)	43	1974185			326.03- 386.03	356.03
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	2176094	10.0000	10.142	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.365	13.365 (0.839)	76	339530	10.0000	10.384	80.00- 120.00	100.00
13.365	13.365 (0.839)	41	1653096			456.88- 516.88	486.88
34 2-Propanol					CAS #: 67-63-0		
13.173	13.173 (0.827)	45	2329280	10.0000	10.064	80.00- 120.00	100.00
13.173	13.173 (0.827)	43	418535			0.00- 47.97	17.97
13.173	13.173 (0.827)	59	75702			0.00- 33.25	3.25
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	724936	10.0000	10.039	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	1656989			198.57- 258.57	228.57
13.640	13.640 (0.856)	51	518153			41.48- 101.48	71.48
38 tert-butyl alcohol					CAS #: 75-65-0		
13.859	13.859 (0.870)	59	2372867	10.0000	9.128	80.00- 120.00	100.00

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

   38 tert-butyl alcohol (continued)
 13.859  13.859 (0.870)    41    552620                     0.00-  53.29    23.29
 13.859  13.859 (0.870)    57    254400                     0.00-  40.72    10.72
-------------------------------------------------------------------------------
   39 MTBE                                          CAS #: 1634-04-4
 13.997  13.997 (0.878)    73   2294815 10.0000   10.163  80.00- 120.00   100.00
 13.997  13.997 (0.878)    57    834063                     6.35-  66.35    36.35
 13.997  13.997 (0.878)    41    820236                     5.74-  65.74    35.74
-------------------------------------------------------------------------------
   40 trans-1,2-Dichloroethene                      CAS #: 156-60-5
 14.052  14.052 (0.882)    98    557078 10.0000   10.464  80.00- 120.00   100.00
 14.052  14.052 (0.882)    61   1686037                   272.66- 332.66   302.66
 14.052  14.052 (0.882)    96    883147                   128.53- 188.53   158.53
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57   2058433 10.0000   10.080  80.00- 120.00   100.00
 14.381  14.381 (0.903)    43   1468075                    41.32- 101.32    71.32
 14.381  14.381 (0.903)    86    208560                     0.00-  40.13    10.13
-------------------------------------------------------------------------------
   45 Isopropyl ether                               CAS #: 108-20-3
 14.738  14.738 (0.925)    45   4937121 10.0000   10.261  80.00- 120.00   100.00
 14.738  14.738 (0.925)    87    756757                     0.00-  45.33    15.33
 14.738  14.738 (0.925)    59    445046                     0.00-  39.01     9.01
-------------------------------------------------------------------------------
   46 1,1-Dichloroethane                            CAS #: 75-34-3
 14.765  14.765 (0.927)    63   1914641 10.0000   10.117  80.00- 120.00   100.00
 14.765  14.765 (0.927)    65    570626                     0.00-  59.80    29.80
-------------------------------------------------------------------------------
   47 Vinyl Acetate                                 CAS #: 108-05-4
 14.793  14.793 (0.928)    86    223291 10.0000   11.710  80.00- 120.00   100.00
 14.793  14.793 (0.928)    42    439693                   166.91- 226.91   196.91
 14.793  14.793 (0.928)    43   6051359                  2680.08-2740.08  2710.08
-------------------------------------------------------------------------------
   49 Ethyl-tert-butyl ether                        CAS #: 637-92-3
 15.240  15.240 (0.956)    59   3850390 10.0000   10.228  80.00- 120.00   100.00
 15.240  15.240 (0.956)    87   1125402                    0.00-  59.23    29.23
 15.240  15.240 (0.956)    41    767730                     0.00-  49.94    19.94
-------------------------------------------------------------------------------
   50 cis-1,2-Dichloroethene                        CAS #: 156-59-2
 15.592  15.592 (0.979)    98    595106 10.0000    9.974  80.00- 120.00   100.00
 15.592  15.592 (0.979)    61   1623410                   242.79- 302.79   272.79
 15.592  15.592 (0.979)    96    936266                   127.33- 187.33   157.33
-------------------------------------------------------------------------------
   51 2-Butanone                                    CAS #: 78-93-3
 15.572  15.572 (0.977)    72    399635 10.0000   10.081  80.00- 120.00   100.00
 15.572  15.572 (0.977)    43   2866074                   687.17- 747.17   717.17
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   51 2-Butanone (continued)
 15.572  15.572 (0.977)    57    213367                    23.39-  83.39    53.39
-------------------------------------------------------------------------------
   53 Tetrahydrofuran                                CAS #: 109-99-9
 15.934  15.934 (1.000)    42   1686319 10.0000    9.747  80.00- 120.00   100.00
 15.934  15.934 (1.000)    71    368043                     0.00-  51.83    21.83
 15.934  15.934 (1.000)    72    407491                     0.00-  54.16    24.16
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83   1777613 10.0000   10.075  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85   1157226                    35.10-  95.10    65.10
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.242  16.242 (1.019)    84   1193991 10.0000    9.958  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56   2278738                   160.85- 220.85   190.85
 16.242  16.242 (1.019)    41   1259580                    75.49- 135.49   105.49
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97   1928804 10.0000    9.812  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99   1219815                    33.24-  93.24    63.24
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                           CAS #: 56-23-5
 16.458  16.458 (1.033)   119   1897698 10.0000   10.576  80.00- 120.00   100.00
 16.458  16.458 (1.033)   117   1859001                    67.96- 127.96    97.96
                   Sum of Peak Amounts =            10.6
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                         CAS #: 540-84-1
 16.728  16.728 (1.050)    56   2140419 10.0000    9.889  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57   6520913                   274.66- 334.66   304.66
 16.728  16.728 (1.050)    41   1811614                    54.64- 114.64    84.64
-------------------------------------------------------------------------------
   64 Benzene                                        CAS #: 71-43-2
 16.756  16.756 (0.968)    78   2449375 10.0000    9.675  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77    572948                     0.00-  53.39    23.39
-------------------------------------------------------------------------------
   66 tert-amyl methyl ether                         CAS #: 994-05-8
 16.811  16.811 (0.971)    87    659749 10.0000   10.141  80.00- 120.00   100.00
 16.811  16.811 (0.971)    73   2614168                   366.24- 426.24   396.24
 16.811  16.811 (0.971)    55   1058484                   130.44- 190.44   160.44
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                             CAS #: 107-06-2
 16.865  16.865 (0.975)    62   1480569 10.0000    9.825  80.00- 120.00   100.00
 16.865  16.865 (0.975)    64    440068                     0.00-  59.72    29.72
-------------------------------------------------------------------------------
   69 Heptane                                        CAS #: 142-82-5
 16.975  16.975 (0.981)    57   1231717 10.0000   10.276  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
69 Heptane (continued)							
16.975	16.975 (0.981)	100	260661			0.00- 51.16	21.16
16.948	16.975 (0.979)	43	2594278			180.62- 240.62	210.62
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	1316337	10.0000	10.188	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	1223939			62.98- 122.98	92.98
17.717	17.717 (1.024)	97	782491			29.44- 89.44	59.44
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	1591493	10.0000	10.032	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	745226			16.83- 76.83	46.83
17.964	17.964 (1.038)	55	2025525			97.27- 157.27	127.27
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	1247140	10.0000	10.037	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	911184			43.06- 103.06	73.06
18.156	18.156 (1.049)	41	830379			36.58- 96.58	66.58
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	628086	10.0000	8.681	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	657823			74.73- 134.73	104.73
18.266	18.266 (1.056)	57	218785			4.83- 64.83	34.83
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	1902545	10.0000	10.155	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	1212405			33.73- 93.73	63.73
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	1591175	10.0000	10.250	80.00- 120.00	100.00
19.386	19.386 (1.120)	77	487826			0.66- 60.66	30.66
19.386	19.386 (1.120)	39	1172217			43.67- 103.67	73.67
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	3382610	10.0000	9.549	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	1121890			3.17- 63.17	33.17
19.588	19.588 (1.132)	85	341437			0.00- 40.09	10.09
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	2878189	10.0000	9.977	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	1679002			28.34- 88.34	58.34
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	1399858	10.0000	9.859	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	447722			1.98- 61.98	31.98
20.399	20.435 (0.919)	39	996918			41.22- 101.22	71.22

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

   84 1,1,2-Trichloroethane                          CAS #: 79-00-5
 20.722  20.722 (0.933)    97   1144799 10.0000   10.093  80.00- 120.00   100.00
 20.758  20.722 (0.935)    99    707498                   31.80-  91.80    61.80
 20.722  20.722 (0.933)    83    928702                   51.12- 111.12    81.12
-------------------------------------------------------------------------------
   86 Tetrachloroethene                              CAS #: 127-18-4
 20.901  20.901 (0.941)   166   1626874 10.0000    9.528  80.00- 120.00   100.00
 20.901  20.901 (0.941)   129   1246379                   46.61- 106.61    76.61
 20.901  20.901 (0.941)   131   1242595                   46.38- 106.38    76.38
-------------------------------------------------------------------------------
   87 2-Hexanone                                     CAS #: 591-78-6
 21.009  21.009 (0.946)    58   1401910 10.0000    9.480  80.00- 120.00   100.00
 21.009  21.009 (0.946)    43   3003895                  184.27- 244.27   214.27
 21.045  21.009 (0.948)   100    198710                    0.00-  44.17    14.17
-------------------------------------------------------------------------------
   89 Dibromochloromethane                           CAS #: 124-48-1
 21.367  21.367 (0.962)   129   2254712 10.0000   10.225  80.00- 120.00   100.00
 21.367  21.367 (0.962)   127   1774711                   48.71- 108.71    78.71
-------------------------------------------------------------------------------
   90 1,2-Dibromoethane                              CAS #: 106-93-4
 21.583  21.583 (0.972)   107   1915250 10.0000   10.111  80.00- 120.00   100.00
 21.583  21.583 (0.972)   109   1796487                   63.80- 123.80    93.80
-------------------------------------------------------------------------------
   93 Chlorobenzene                                  CAS #: 108-90-7
 22.233  22.233 (1.001)   112   2510547 10.0000    9.642  80.00- 120.00   100.00
 22.233  22.233 (1.001)   114    797048                    1.75-  61.75    31.75
 22.233  22.233 (1.001)    77   1374038                   24.73-  84.73    54.73
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                  CAS #: 100-41-4
 22.315  22.315 (1.005)   106   1175994 10.0000    9.558  80.00- 120.00   100.00
 22.315  22.315 (1.005)    91   3414058                  260.31- 320.31   290.31
-------------------------------------------------------------------------------
   96 m,p-Xylene                                     CAS #: 108-38-3
 22.452  22.452 (1.011)   106   1200242 10.0000    9.658  80.00- 120.00   100.00
 22.452  22.452 (1.011)    91   2247266                  157.23- 217.23   187.23
-------------------------------------------------------------------------------
  100 o-Xylene                                       CAS #: 95-47-6
 23.002  23.002 (1.036)   106   1132590 10.0000    9.914  80.00- 120.00   100.00
 23.002  23.002 (1.036)    91   2239837                  167.76- 227.76   197.76
-------------------------------------------------------------------------------
  101 Styrene                                        CAS #: 100-42-5
 23.029  23.029 (1.037)   104   1704603 10.0000   10.006  80.00- 120.00   100.00
 23.029  23.029 (1.037)    78    817579                   17.96-  77.96    47.96
-------------------------------------------------------------------------------
  102 Bromoform                                      CAS #: 75-25-2
 23.331  23.331 (1.051)   173   2012226 10.0000   10.200  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
102 Bromoform (continued)							
23.331	23.331 (1.051)	171	1047217			22.04- 82.04	52.04
103 Cumene					CAS #: 98-82-8		
23.441	23.441 (1.056)	105	3156503	10.0000	9.772	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	944832			0.00- 59.93	29.93
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	2019896	10.0000	8.893	80.00- 120.00	100.00
23.833	23.833 (1.073)	85	1311756			34.94- 94.94	64.94
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	2827432	10.0000	9.398	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	761416			0.00- 56.93	26.93
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	2141695	10.0000	9.390	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	708963			3.10- 63.10	33.10
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	2053915	10.0000	9.120	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	1057645			21.49- 81.49	51.49
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	1745022	10.0000	8.777	80.00- 120.00	100.00
24.529	24.529 (1.105)	120	863518			19.48- 79.48	49.48
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	1517192	10.0000	9.570	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	946970			32.42- 92.42	62.42
24.902	24.902 (1.121)	111	590230			8.90- 68.90	38.90
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	1342835	10.0000	7.995	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	859609			34.01- 94.01	64.01
24.992	24.992 (1.125)	111	518030			8.58- 68.58	38.58
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.127	25.127 (1.132)	91	2012771	10.0000	10.332	80.00- 120.00	100.00
25.127	25.127 (1.132)	126	483582			0.00- 54.03	24.03
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	1374369	10.0000	8.608	80.00- 120.00	100.00
25.396	25.396 (1.144)	148	859432			32.53- 92.53	62.53
25.396	25.396 (1.144)	111	558831			10.66- 70.66	40.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	1078958	10.0000	7.461	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	1036479			66.06- 126.06	96.06
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.167	27.167 (1.223)	225	797767	10.0000	7.631	80.00- 120.00	100.00
27.167	27.167 (1.223)	223	499421			32.60- 92.60	62.60
133 Naphthalene					CAS #: 91-20-3		
27.368	27.368 (1.232)	128	192746	1.00000	0.8892	80.00- 120.00	100.00
27.368	27.368 (1.232)	127	28171			0.00- 44.62	14.62

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012311.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	253263	0.00
71 1,4-Difluorobenze	1019789	611873	1427705	1019789	0.00
92 Chlorobenzene-d5	833326	499996	1166656	833326	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012311.d

Date : 23-JAN-2015 20:25

Client ID: Level 10

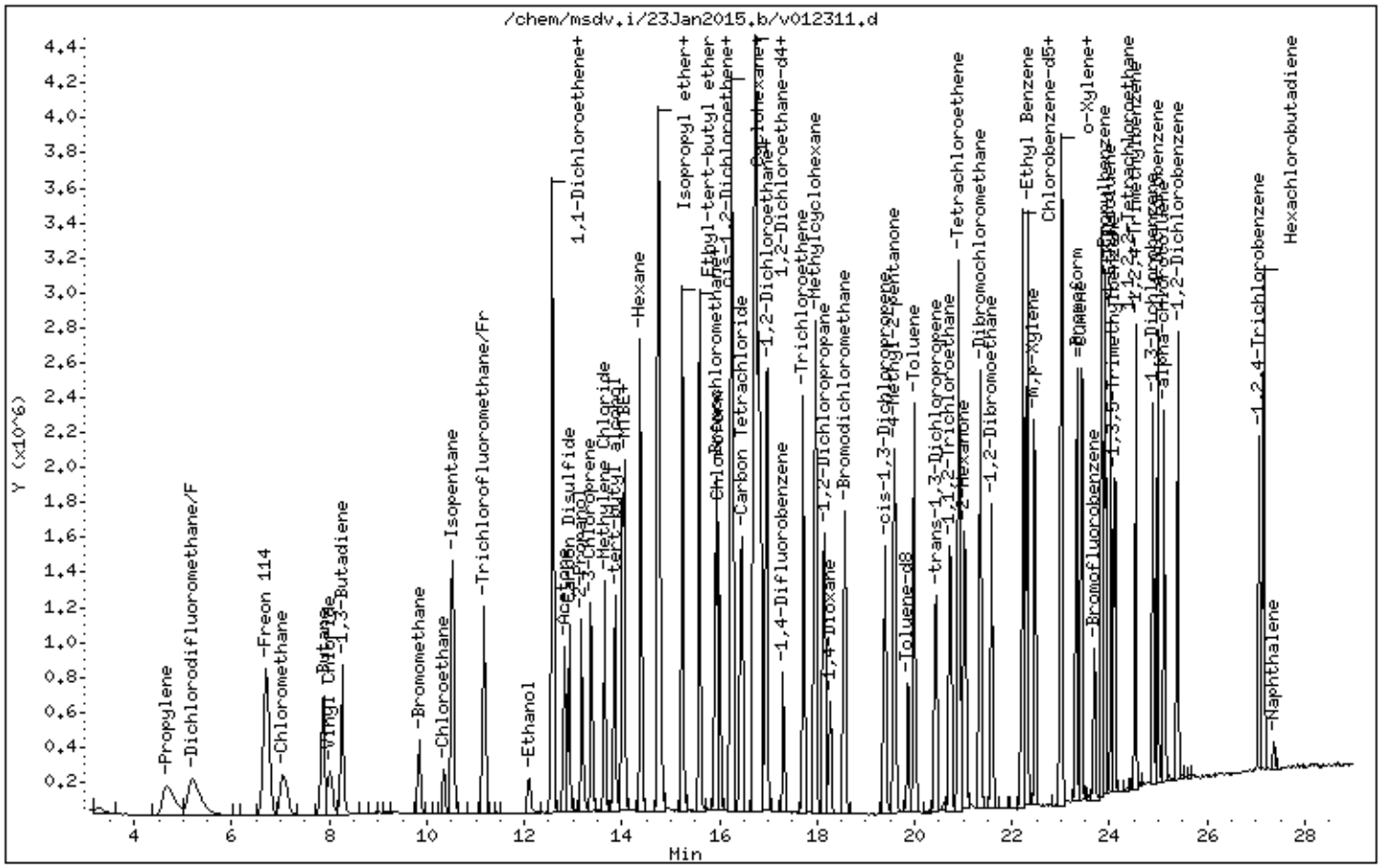
Instrument: msdv.i

Sample Info: 50mL# 2687-244

Operator: gd

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012312.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 23-JAN-2015 21:15
Operator : gd Inst ID: msdv.i
Smp Info : 100mL# 2687-244; ICAL; Level 11
Misc Info : 20ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:13 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 21:15 Cal File: v012312.d
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	271310	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	204197			47.40- 107.40	75.26
15.934	15.934 (1.000)	49	603874			167.26- 227.26	222.58
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	1034601	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	160988			0.00- 46.18	15.56
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	847788	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	463347			25.73- 85.73	54.65
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.756	16.756 (1.052)	65	424707	5.00000	5.083	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	260928			26.63- 86.63	61.44
$ 80 Toluene-d8						CAS #: 2037-26-5	
19.857	19.857 (1.147)	98	971686	5.00000	5.014	80.00- 120.00	100.00
19.857	19.857 (1.147)	70	101969			0.00- 40.74	10.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)							
19.857	19.857 (1.147)	100	633654			33.76- 93.76	65.21
$ 106 Bromofluorobenzene					CAS #: 460-00-4		
23.704	23.704 (1.067)	174	415394	5.00000	5.273	80.00- 120.00	100.00
23.678	23.678 (1.066)	95	527216			108.04- 168.04	126.92
23.704	23.704 (1.067)	176	402107			67.04- 127.04	96.80
3 Propylene					CAS #: 115-07-1		
4.711	4.711 (0.296)	41	2014887	20.0000	17.879	80.00- 120.00	100.00
4.711	4.711 (0.296)	42	1371665			36.23- 96.23	68.08
4.674	4.674 (0.293)	39	1382657			40.03- 100.03	68.62
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.202	5.202 (0.326)	85	3920353	20.0000	17.882	80.00- 120.00	100.00
5.202	5.202 (0.326)	87	1256490			2.42- 62.42	32.05
6 Freon 114					CAS #: 76-14-2		
6.713	6.713 (0.421)	135	3320592	20.0000	18.096	80.00- 120.00	100.00
6.750	6.750 (0.424)	137	1061091			1.35- 61.35	31.95
6.713	6.713 (0.421)	85	4125174			100.64- 160.64	124.23
8 Chloromethane					CAS #: 74-87-3		
7.090	7.090 (0.445)	50	2428975	20.0000	16.954	80.00- 120.00	100.00
7.053	7.053 (0.443)	52	770104			2.12- 62.12	31.70
9 Butane					CAS #: 106-97-8		
7.885	7.885 (0.495)	58	452008	20.0000	18.049	80.00- 120.00	100.00
7.854	7.854 (0.493)	43	4074138			783.54- 843.54	901.34
10 Vinyl Chloride					CAS #: 75-01-4		
8.009	8.009 (0.503)	62	2001995	20.0000	18.475	80.00- 120.00	100.00
8.009	8.009 (0.503)	64	579486			0.00- 59.60	28.95
11 1,3-Butadiene					CAS #: 106-99-0		
8.257	8.257 (0.518)	54	1962565	20.0000	18.482	80.00- 120.00	100.00
8.257	8.257 (0.518)	39	1941560			66.22- 126.22	98.93
12 Bromomethane					CAS #: 74-83-9		
9.835	9.835 (0.617)	94	1316649	20.0000	19.661	80.00- 120.00	100.00
9.835	9.835 (0.617)	96	1212467			63.75- 123.75	92.09
17 Chloroethane					CAS #: 75-00-3		
10.340	10.340 (0.649)	64	879947	20.0000	18.702	80.00- 120.00	100.00
10.340	10.340 (0.649)	66	260606			0.00- 59.96	29.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	1927022	20.0000	18.575	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	3211536			125.71- 185.71	166.66
10.533	10.533 (0.661)	42	2730103			102.09- 162.09	141.67
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.160	11.160 (0.700)	101	4152033	20.0000	17.792	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	2701346			35.13- 95.13	65.06
24 Ethanol					CAS #: 64-17-5		
12.074	12.074 (0.758)	45	1010662	20.0000	20.498	80.00- 120.00	100.00
12.074	12.074 (0.758)	46	382042			10.23- 70.23	37.80
12.074	12.074 (0.758)	43	200301			0.00- 50.98	19.82
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.569	12.569 (0.789)	98	1051114	20.0000	18.840	80.00- 120.00	100.00
12.569	12.569 (0.789)	61	3503849			302.86- 362.86	333.35
12.569	12.569 (0.789)	96	1651802			132.09- 192.09	157.15
28 Freon 113					CAS #: 76-13-1		
12.569	12.569 (0.789)	151	3000046	20.0000	18.008	80.00- 120.00	100.00
12.569	12.569 (0.789)	153	1909833			33.83- 93.83	63.66
12.569	12.569 (0.789)	101	3453836			86.15- 146.15	115.13
31 Acetone					CAS #: 67-64-1		
12.816	12.816 (0.804)	58	1105191	20.0000	17.314	80.00- 120.00	100.00
12.816	12.816 (0.804)	43	3904666			310.23- 370.23	353.30
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	4335059	20.0000	18.768	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.365	13.365 (0.839)	76	692623	20.0000	19.806	80.00- 120.00	100.00
13.365	13.365 (0.839)	41	3360046			401.48- 461.48	485.12
34 2-Propanol					CAS #: 67-63-0		
13.173	13.173 (0.827)	45	4766679	20.0000	19.147	80.00- 120.00	100.00
13.173	13.173 (0.827)	43	827633			0.00- 46.97	17.36
13.173	13.173 (0.827)	59	149314			0.00- 33.46	3.13
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	1431134	20.0000	18.291	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	3284205			177.28- 237.28	229.48
13.640	13.640 (0.856)	51	995814			32.93- 92.93	69.58
38 tert-butyl alcohol					CAS #: 75-65-0		
13.859	13.859 (0.870)	59	4728739	20.0000	16.571	80.00- 120.00	100.00

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

   38 tert-butyl alcohol (continued)
 13.859  13.859 (0.870)    41   1088476                     0.00-  51.49    23.02
 13.859  13.859 (0.870)    57    516257                     0.00-  40.02    10.92
-------------------------------------------------------------------------------
   39 MTBE                                          CAS #: 1634-04-4
 13.997  13.997 (0.878)    73   4531591 20.0000   18.543  80.00- 120.00   100.00
 13.997  13.997 (0.878)    57   1632608                     3.26-  63.26    36.03
 13.997  13.997 (0.878)    41   1583730                     2.63-  62.63    34.95
-------------------------------------------------------------------------------
   40 trans-1,2-Dichloroethene                      CAS #: 156-60-5
 14.052  14.052 (0.882)    98   1082446 20.0000   18.878  80.00- 120.00   100.00
 14.052  14.052 (0.882)    61   3253834                   262.11- 322.11   300.60
 14.052  14.052 (0.882)    96   1703899                   128.28- 188.28   157.41
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57   3968193 20.0000   17.886  80.00- 120.00   100.00
 14.381  14.381 (0.903)    43   2849351                    36.69-  96.69    71.80
 14.381  14.381 (0.903)    86    413798                     0.00-  41.09    10.43
-------------------------------------------------------------------------------
   45 Isopropyl ether                               CAS #: 108-20-3
 14.738  14.738 (0.925)    45   9555557 20.0000   18.269  80.00- 120.00   100.00
 14.738  14.738 (0.925)    87   1506237                     0.00-  47.17    15.76
 14.738  14.738 (0.925)    59    879965                     0.00-  39.85     9.21
-------------------------------------------------------------------------------
   46 1,1-Dichloroethane                            CAS #: 75-34-3
 14.765  14.765 (0.927)    63   3767446 20.0000   18.385  80.00- 120.00   100.00
 14.765  14.765 (0.927)    65   1127578                     0.34-  60.34    29.93
-------------------------------------------------------------------------------
   47 Vinyl Acetate                                 CAS #: 108-05-4
 14.793  14.793 (0.928)    86    437200 20.0000   21.977  80.00- 120.00   100.00
 14.793  14.793 (0.928)    42    905697                   147.97- 207.97   207.16
 14.793  14.793 (0.928)    43  12040988                  2354.84-2414.84  2754.11
-------------------------------------------------------------------------------
   49 Ethyl-tert-butyl ether                        CAS #: 637-92-3
 15.240  15.240 (0.956)    59   7550306 20.0000   18.531  80.00- 120.00   100.00
 15.240  15.240 (0.956)    87   2240810                     0.00-  59.53    29.68
 15.240  15.240 (0.956)    41   1537822                     0.00-  48.76    20.37
-------------------------------------------------------------------------------
   50 cis-1,2-Dichloroethene                        CAS #: 156-59-2
 15.592  15.592 (0.979)    98   1152070 20.0000   17.815  80.00- 120.00   100.00
 15.592  15.592 (0.979)    61   3185371                   232.32- 292.32   276.49
 15.592  15.592 (0.979)    96   1819475                   127.66- 187.66   157.93
-------------------------------------------------------------------------------
   51 2-Butanone                                    CAS #: 78-93-3
 15.572  15.572 (0.977)    72    820060 20.0000   19.229  80.00- 120.00   100.00
 15.572  15.572 (0.977)    43   5676108                   621.62- 681.62   692.16
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   51 2-Butanone (continued)
 15.572  15.572 (0.977)    57    395085                    17.09-  77.09    48.18
-------------------------------------------------------------------------------
   53 Tetrahydrofuran                                CAS #: 109-99-9
 15.934  15.934 (1.000)    42   3346329 20.0000   17.756  80.00- 120.00   100.00
 15.934  15.934 (1.000)    71    726811                     0.00-  54.64    21.72
 15.934  15.934 (1.000)    72    796950                     0.00-  57.57    23.82
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83   3509782 20.0000   18.397  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85   2257801                    34.22-  94.22    64.33
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.242  16.242 (1.019)    84   2299841 20.0000   17.670  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56   4411880                   145.90- 205.90   191.83
 16.242  16.242 (1.019)    41   2445062                    62.61- 122.61   106.31
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97   3757185 20.0000   17.583  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99   2407356                    34.05-  94.05    64.07
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                           CAS #: 56-23-5
 16.458  16.458 (1.033)   119   3708243 20.0000   19.220  80.00- 120.00   100.00
 16.458  16.458 (1.033)   117   3651867                    68.83- 128.83    98.48
                   Sum of Peak Amounts =            19.2
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                         CAS #: 540-84-1
 16.728  16.728 (1.050)    56   4215402 20.0000   17.863  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57  12662456                   271.70- 331.70   300.39
 16.728  16.728 (1.050)    41   3541474                    52.41- 112.41    84.01
-------------------------------------------------------------------------------
   64 Benzene                                        CAS #: 71-43-2
 16.756  16.756 (0.968)    78   4779530 20.0000   18.346  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77   1088908                     0.00-  53.49    22.78
-------------------------------------------------------------------------------
   66 tert-amyl methyl ether                         CAS #: 994-05-8
 16.811  16.811 (0.971)    87   1268097 20.0000   19.048  80.00- 120.00   100.00
 16.811  16.811 (0.971)    73   5139924                   368.43- 428.43   405.33
 16.811  16.811 (0.971)    55   1999119                   120.38- 180.38   157.65
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                             CAS #: 107-06-2
 16.866  16.866 (0.975)    62   2849074 20.0000   18.425  80.00- 120.00   100.00
 16.866  16.866 (0.975)    64    857842                     0.00-  59.91    30.11
-------------------------------------------------------------------------------
   69 Heptane                                        CAS #: 142-82-5
 16.948  16.948 (0.979)    57   2385987 20.0000   19.445  80.00- 120.00   100.00
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
69 Heptane (continued)							
16.975	16.975 (0.981)	100	525094			0.00- 53.77	22.01
16.948	16.948 (0.979)	43	5098250			172.35- 232.35	213.67
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	2577272	20.0000	19.602	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	2390066			65.17- 125.17	92.74
17.717	17.717 (1.024)	97	1545992			31.34- 91.34	59.99
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	3136452	20.0000	19.332	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	1481700			17.27- 77.27	47.24
17.964	17.964 (1.038)	55	3926046			91.54- 151.54	125.17
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	2452793	20.0000	19.363	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	1814876			43.25- 103.25	73.99
18.156	18.156 (1.049)	41	1597231			33.86- 93.86	65.12
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	1252844	20.0000	16.657	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	1323143			73.29- 133.29	105.61
18.266	18.266 (1.056)	57	418629			3.70- 63.70	33.41
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	3727345	20.0000	19.562	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	2389222			33.07- 93.07	64.10
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	3107847	20.0000	19.747	80.00- 120.00	100.00
19.386	19.386 (1.120)	77	1019840			0.97- 60.97	32.82
19.386	19.386 (1.120)	39	2332175			40.23- 100.23	75.04
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	6819014	20.0000	18.755	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	2300536			6.07- 66.07	33.74
19.588	19.588 (1.132)	85	694914			0.00- 41.52	10.19
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	5613622	20.0000	18.919	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	3267847			28.55- 88.55	58.21
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	2773205	20.0000	19.176	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	877880			1.39- 61.39	31.66
20.399	20.399 (0.919)	39	1970337			36.57- 96.57	71.05

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

   84 1,1,2-Trichloroethane                          CAS #: 79-00-5
 20.722  20.722 (0.933)    97   2237764 20.0000   19.404  80.00- 120.00   100.00
 20.722  20.722 (0.933)    99   1374524                   32.18-  92.18    61.42
 20.722  20.722 (0.933)    83   1854329                   54.91- 114.91    82.87
-------------------------------------------------------------------------------
   86 Tetrachloroethene                              CAS #: 127-18-4
 20.901  20.901 (0.941)   166   3172037 20.0000   18.062  80.00- 120.00   100.00
 20.901  20.901 (0.941)   129   2435197                   50.27- 110.27    76.77
 20.901  20.901 (0.941)   131   2433057                   49.16- 109.16    76.70
-------------------------------------------------------------------------------
   87 2-Hexanone                                     CAS #: 591-78-6
 21.009  21.009 (0.946)    58   2944468 20.0000   19.604  80.00- 120.00   100.00
 21.009  21.009 (0.946)    43   6310350                  171.66- 231.66   214.31
 21.009  21.009 (0.946)   100    412989                    0.00-  44.23    14.03
-------------------------------------------------------------------------------
   89 Dibromochloromethane                           CAS #: 124-48-1
 21.367  21.367 (0.962)   129   4467241 20.0000   19.997  80.00- 120.00   100.00
 21.367  21.367 (0.962)   127   3514763                   46.63- 106.63    78.68
-------------------------------------------------------------------------------
   90 1,2-Dibromoethane                              CAS #: 106-93-4
 21.583  21.583 (0.972)   107   3795604 20.0000   19.744  80.00- 120.00   100.00
 21.583  21.583 (0.972)   109   3544979                   62.25- 122.25    93.40
-------------------------------------------------------------------------------
   93 Chlorobenzene                                  CAS #: 108-90-7
 22.233  22.233 (1.001)   112   4918232 20.0000   18.354  80.00- 120.00   100.00
 22.233  22.233 (1.001)   114   1572117                    1.87-  61.87    31.97
 22.233  22.233 (1.001)    77   2682099                   27.42-  87.42    54.53
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                  CAS #: 100-41-4
 22.315  22.315 (1.005)   106   2335168 20.0000   18.462  80.00- 120.00   100.00
 22.315  22.315 (1.005)    91   6764005                  258.78- 318.78   289.66
-------------------------------------------------------------------------------
   96 m,p-Xylene                                     CAS #: 108-38-3
 22.452  22.452 (1.011)   106   2438659 20.0000   19.035  80.00- 120.00   100.00
 22.452  22.452 (1.011)    91   4534153                  162.81- 222.81   185.93
-------------------------------------------------------------------------------
  100 o-Xylene                                       CAS #: 95-47-6
 23.002  23.002 (1.036)   106   2285483 20.0000   19.478  80.00- 120.00   100.00
 23.002  23.002 (1.036)    91   4549942                  171.98- 231.98   199.08
-------------------------------------------------------------------------------
  101 Styrene                                        CAS #: 100-42-5
 23.029  23.029 (1.037)   104   3587995 20.0000   20.680  80.00- 120.00   100.00
 23.029  23.029 (1.037)    78   1686088                   21.36-  81.36    46.99
-------------------------------------------------------------------------------
  102 Bromoform                                      CAS #: 75-25-2
 23.331  23.331 (1.051)   173   4056269 20.0000   20.392  80.00- 120.00   100.00
```

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

  102 Bromoform (continued)
 23.331  23.331 (1.051)   171   2099050                    21.13-  81.13    51.75
-------------------------------------------------------------------------------
  103 Cumene                                        CAS #: 98-82-8
 23.441  23.441 (1.056)   105   6642923 20.0000   20.182  80.00- 120.00   100.00
 23.441  23.441 (1.056)   120   2022728                     0.35-  60.35    30.45
-------------------------------------------------------------------------------
  108 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
 23.833  23.833 (1.073)    83   4032218 20.0000   17.183  80.00- 120.00   100.00
 23.833  23.833 (1.073)    85   2581610                    36.04-  96.04    64.02
-------------------------------------------------------------------------------
  111 Propylbenzene                                 CAS #: 103-65-1
 23.910  23.910 (1.077)    91   5898292 20.0000   19.077  80.00- 120.00   100.00
 23.910  23.910 (1.077)   120   1575121                     0.00-  56.65    26.70
-------------------------------------------------------------------------------
  113 4-Ethyltoluene                                CAS #: 622-96-8
 24.039  24.039 (1.083)   105   4497398 20.0000   19.169  80.00- 120.00   100.00
 24.039  24.039 (1.083)   120   1533548                     3.46-  63.46    34.10
-------------------------------------------------------------------------------
  114 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 24.116  24.116 (1.086)   105   4044279 20.0000   16.884  80.00- 120.00   100.00
 24.116  24.116 (1.086)   120   2131446                    21.43-  81.43    52.70
-------------------------------------------------------------------------------
  120 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 24.529  24.529 (1.105)   105   3311767 20.0000   15.515  80.00- 120.00   100.00
 24.529  24.529 (1.105)   120   1684428                    18.67-  78.67    50.86
-------------------------------------------------------------------------------
  122 1,3-Dichlorobenzene                           CAS #: 541-73-1
 24.902  24.902 (1.121)   146   3118730 20.0000   19.132  80.00- 120.00   100.00
 24.902  24.902 (1.121)   148   1974472                    33.26-  93.26    63.31
 24.902  24.902 (1.121)   111   1244481                     9.81-  69.81    39.90
-------------------------------------------------------------------------------
  124 1,4-Dichlorobenzene                           CAS #: 106-46-7
 24.992  24.992 (1.125)   146   2855431 20.0000   16.236  80.00- 120.00   100.00
 24.992  24.992 (1.125)   148   1842391                    32.99-  92.99    64.52
 24.992  24.992 (1.125)   111   1087505                     8.98-  68.98    38.09
-------------------------------------------------------------------------------
  127 alpha-chlorotoluene                           CAS #: 100-44-7
 25.127  25.127 (1.132)    91   4303969 20.0000   22.019  80.00- 120.00   100.00
 25.127  25.127 (1.132)   126   1027099                     0.00-  53.33    23.86
-------------------------------------------------------------------------------
  128 1,2-Dichlorobenzene                           CAS #: 95-50-1
 25.396  25.396 (1.144)   146   2908904 20.0000   17.520  80.00- 120.00   100.00
 25.396  25.396 (1.144)   148   1830301                    33.33-  93.33    62.92
 25.396  25.396 (1.144)   111   1164018                    12.11-  72.11    40.02
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	2205491	20.0000	14.164	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	2112073			66.11- 126.11	95.76
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.167	27.167 (1.223)	225	1837043	20.0000	17.035	80.00- 120.00	100.00
27.167	27.167 (1.223)	223	1159187			31.45- 91.45	63.10
133 Naphthalene					CAS #: 91-20-3		
27.368	27.368 (1.232)	128	410874	2.00000	1.762	80.00- 120.00	100.00
27.368	27.368 (1.232)	127	55804			0.00- 43.32	13.58

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012312.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 20ppbv (50ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	271310	7.13
71 1,4-Difluorobenze	1019789	611873	1427705	1034601	1.45
92 Chlorobenzene-d5	833326	499996	1166656	847788	1.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012312.d

Date : 23-JAN-2015 21:15

Client ID: Level 11

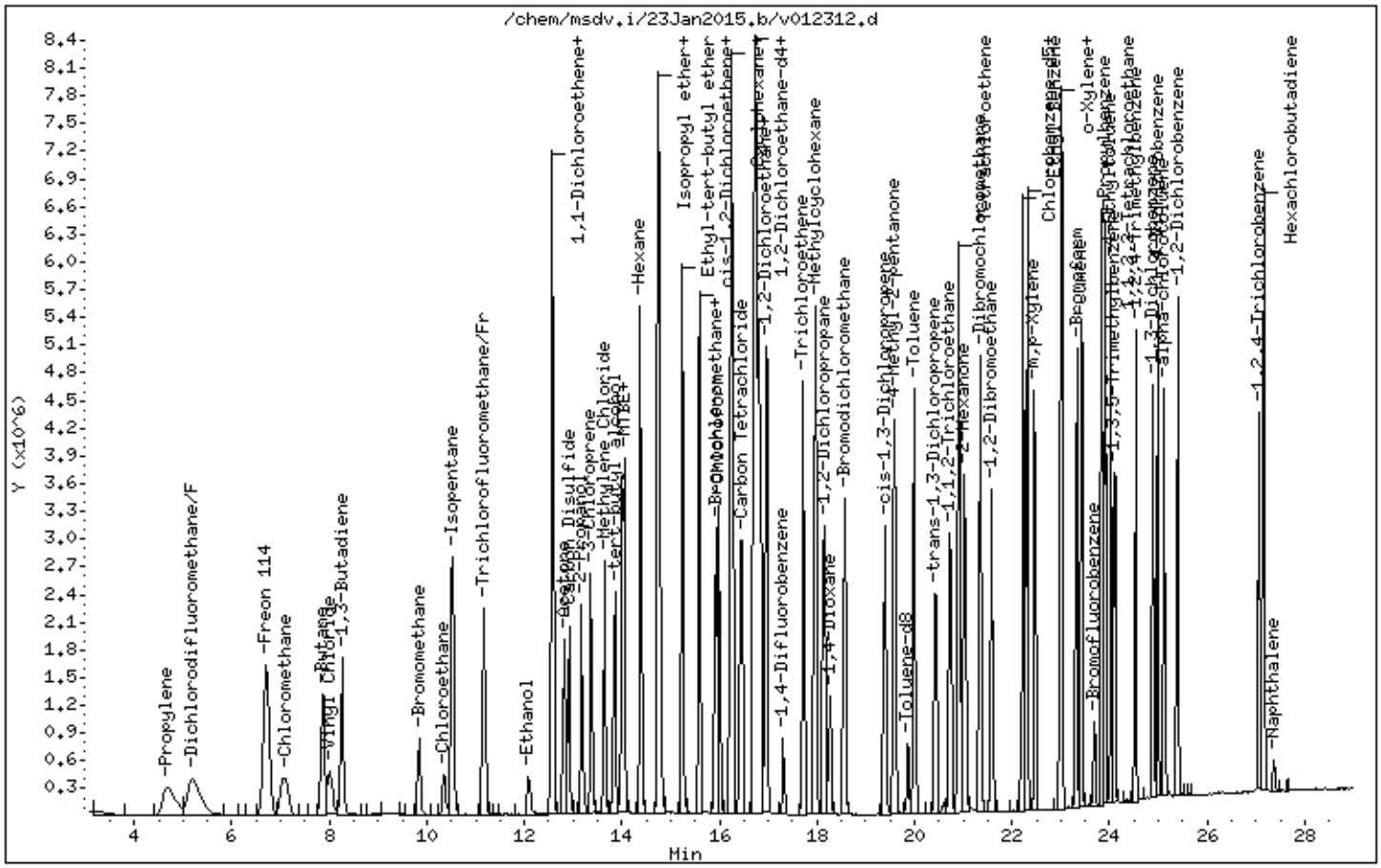
Instrument: msdv.i

Sample Info: 100mL# 2687-244; ICAL; Level 11

Operator: gd

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/23Jan2015.b/v012313.d
Lab Smp Id: ICAL Client Smp ID: Level 12
Inj Date : 23-JAN-2015 22:26
Operator : gh Inst ID: msdv.i
Smp Info : 200mL# 2687-244
Misc Info : 40ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/23Jan2015.b/v15l0123a.m
Meth Date : 23-Jan-2015 23:14 ghehir Quant Type: ISTD
Cal Date : 23-JAN-2015 22:26 Cal File: v012313.d
Als bottle: 1 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HiLoFULLcrv.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.934	15.934 (1.000)	130	261625	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	207615			47.40- 107.40	79.36
15.934	15.934 (1.000)	49	625663			167.26- 227.26	239.14
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	1015137	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	160706			0.00- 46.18	15.83
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	801590	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	443277			25.73- 85.73	55.30
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	460430	5.00000	5.614	80.00- 120.00	100.00
16.728	16.728 (1.050)	67	327283			26.63- 86.63	71.08
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.857	19.857 (1.147)	98	947514	5.00000	4.985	80.00- 120.00	100.00
19.857	19.857 (1.147)	70	99538			0.00- 40.74	10.51

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

$  80 Toluene-d8 (continued)
 19.857  19.857 (1.147)   100    613805                    33.76-  93.76    64.78
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.678  23.678 (1.066)   174    397780 5.00000    5.296  80.00- 120.00   100.00
 23.678  23.678 (1.066)    95    495486                  108.04- 168.04   124.56
 23.678  23.678 (1.066)   176    392335                   67.04- 127.04    98.63
-------------------------------------------------------------------------------
    3 Propylene                                     CAS #: 115-07-1
  4.711   4.711 (0.296)    41   3982212 40.0000   37.164  80.00- 120.00   100.00
  4.749   4.749 (0.298)    42   2695621                   36.23-  96.23    67.69
  4.749   4.749 (0.298)    39   2716466                   40.03- 100.03    68.22
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.202   5.202 (0.326)    85   7662338 40.0000   36.738  80.00- 120.00   100.00
  5.202   5.202 (0.326)    87   2430049                    2.42-  62.42    31.71
-------------------------------------------------------------------------------
    6 Freon 114                                     CAS #: 76-14-2
  6.750   6.750 (0.424)   135   6564024 40.0000   37.436  80.00- 120.00   100.00
  6.750   6.750 (0.424)   137   2081403                    1.35-  61.35    31.71
  6.713   6.713 (0.421)    85   8042419                  100.64- 160.64   122.52
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.090   7.090 (0.445)    50   4539110 40.0000   33.715  80.00- 120.00   100.00
  7.090   7.090 (0.445)    52   1489360                    2.12-  62.12    32.81
-------------------------------------------------------------------------------
    9 Butane                                        CAS #: 106-97-8
  7.885   7.885 (0.495)    58    914531 40.0000   38.209  80.00- 120.00   100.00
  7.885   7.885 (0.495)    43   8069352                  783.54- 843.54   882.35
-------------------------------------------------------------------------------
   10 Vinyl Chloride                                CAS #: 75-01-4
  8.009   8.009 (0.503)    62   3899689 40.0000   37.680  80.00- 120.00   100.00
  8.009   8.009 (0.503)    64   1116864                    0.00-  59.60    28.64
-------------------------------------------------------------------------------
   11 1,3-Butadiene                                 CAS #: 106-99-0
  8.257   8.257 (0.518)    54   3902402 40.0000   38.369  80.00- 120.00   100.00
  8.257   8.257 (0.518)    39   3846346                   66.22- 126.22    98.56
-------------------------------------------------------------------------------
   12 Bromomethane                                  CAS #: 74-83-9
  9.835   9.835 (0.617)    94   2521428 40.0000   39.180  80.00- 120.00   100.00
  9.835   9.835 (0.617)    96   2330053                   63.75- 123.75    92.41
-------------------------------------------------------------------------------
   17 Chloroethane                                  CAS #: 75-00-3
 10.365  10.365 (0.650)    64   1721734 40.0000   38.276  80.00- 120.00   100.00
 10.365  10.365 (0.650)    66    515452                    0.00-  59.96    29.94
-------------------------------------------------------------------------------
```

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

   18 Isopentane                                    CAS #: 78-78-4
 10.533  10.533 (0.661)    57   3793338 40.0000   38.250  80.00- 120.00   100.00
 10.533  10.533 (0.661)    43   6282806                   125.71- 185.71   165.63
 10.533  10.533 (0.661)    42   5333655                   102.09- 162.09   140.61
-------------------------------------------------------------------------------
   20 Trichlorofluoromethane/Fr11                   CAS #: 75-69-4
 11.160  11.160 (0.700)   101   8130318 40.0000   36.572  80.00- 120.00   100.00
 11.184  11.184 (0.702)   103   5248455                    35.13-  95.13    64.55
-------------------------------------------------------------------------------
   24 Ethanol                                       CAS #: 64-17-5
 12.074  12.074 (0.758)    45   1963159 40.0000   41.069  80.00- 120.00   100.00(A)
 12.074  12.074 (0.758)    46    780094                    10.23-  70.23    39.74
 12.074  12.074 (0.758)    43    384243                     0.00-  50.98    19.57
-------------------------------------------------------------------------------
   30 1,1-Dichloroethene                            CAS #: 75-35-4
 12.569  12.569 (0.789)    98   2048247 40.0000   38.336  80.00- 120.00   100.00
 12.569  12.569 (0.789)    61   6875381                   302.86- 362.86   335.67
 12.569  12.569 (0.789)    96   3258521                   132.09- 192.09   159.09
-------------------------------------------------------------------------------
   28 Freon 113                                     CAS #: 76-13-1
 12.569  12.569 (0.789)   151   5935890 40.0000   37.305  80.00- 120.00   100.00
 12.569  12.569 (0.789)   153   3775721                    33.83-  93.83    63.61
 12.569  12.569 (0.789)   101   6764054                    86.15- 146.15   113.95
-------------------------------------------------------------------------------
   31 Acetone                                       CAS #: 67-64-1
 12.816  12.816 (0.804)    58   2187703 40.0000   36.214  80.00- 120.00   100.00
 12.816  12.816 (0.804)    43   7646847                   310.23- 370.23   349.54
-------------------------------------------------------------------------------
   33 Carbon Disulfide                              CAS #: 75-15-0
 12.926  12.926 (0.811)    76   8644053 40.0000   39.001  80.00- 120.00   100.00
-------------------------------------------------------------------------------
   35 3-Chloroprene                                 CAS #: 107-05-1
 13.365  13.365 (0.839)    76   1364222 40.0000   40.388  80.00- 120.00   100.00(A)
 13.365  13.365 (0.839)    41   6748112                   401.48- 461.48   494.65
-------------------------------------------------------------------------------
   34 2-Propanol                                    CAS #: 67-63-0
 13.173  13.173 (0.827)    45   9370832 40.0000   39.192  80.00- 120.00   100.00
 13.173  13.173 (0.827)    43   1590955                     0.00-  46.97    16.98
 13.173  13.173 (0.827)    59    310271                     0.00-  33.46     3.31
-------------------------------------------------------------------------------
   37 Methylene Chloride                            CAS #: 75-09-2
 13.640  13.640 (0.856)    84   2779014 40.0000   37.254  80.00- 120.00   100.00
 13.640  13.640 (0.856)    49   6355471                   177.28- 237.28   228.70
 13.640  13.640 (0.856)    51   1955416                    32.93-  92.93    70.36
-------------------------------------------------------------------------------
   38 tert-butyl alcohol                            CAS #: 75-65-0
 13.859  13.859 (0.870)    59   9411406 40.0000   35.048  80.00- 120.00   100.00
```

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

   38 tert-butyl alcohol (continued)
 13.859  13.859 (0.870)    41   2159667                     0.00-  51.49    22.95
 13.859  13.859 (0.870)    57   1027616                     0.00-  40.02    10.92
-------------------------------------------------------------------------------
   39 MTBE                                          CAS #: 1634-04-4
 13.997  13.997 (0.878)    73   8753862 40.0000   37.529  80.00- 120.00   100.00
 13.997  13.997 (0.878)    57   3191513                     3.26-  63.26    36.46
 13.997  13.997 (0.878)    41   3078488                     2.63-  62.63    35.17
-------------------------------------------------------------------------------
   40 trans-1,2-Dichloroethene                      CAS #: 156-60-5
 14.052  14.052 (0.882)    98   2129535 40.0000   38.720  80.00- 120.00   100.00
 14.052  14.052 (0.882)    61   6407449                   262.11- 322.11   300.88
 14.052  14.052 (0.882)    96   3370895                   128.28- 188.28   158.29
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57   7725177 40.0000   36.619  80.00- 120.00   100.00
 14.381  14.381 (0.903)    43   5530693                    36.69-  96.69    71.59
 14.381  14.381 (0.903)    86    787874                     0.00-  41.09    10.20
-------------------------------------------------------------------------------
   45 Isopropyl ether                               CAS #: 108-20-3
 14.738  14.738 (0.925)    45  18410617 40.0000   37.041  80.00- 120.00   100.00
 14.738  14.738 (0.925)    87   2927785                     0.00-  47.17    15.90
 14.738  14.738 (0.925)    59   1708044                     0.00-  39.85     9.28
-------------------------------------------------------------------------------
   46 1,1-Dichloroethane                            CAS #: 75-34-3
 14.765  14.765 (0.927)    63   7315834 40.0000   37.421  80.00- 120.00   100.00
 14.765  14.765 (0.927)    65   2226781                     0.34-  60.34    30.44
-------------------------------------------------------------------------------
   47 Vinyl Acetate                                 CAS #: 108-05-4
 14.793  14.793 (0.928)    86    890835 40.0000   45.224  80.00- 120.00   100.00(A)
 14.793  14.793 (0.928)    42   1723364                   147.97- 207.97   193.45
 14.793  14.793 (0.928)    43  23374978                  2354.84-2414.84  2623.94
-------------------------------------------------------------------------------
   49 Ethyl-tert-butyl ether                        CAS #: 637-92-3
 15.240  15.240 (0.956)    59  14756073 40.0000   37.944  80.00- 120.00   100.00
 15.240  15.240 (0.956)    87   4357174                     0.00-  59.53    29.53
 15.240  15.240 (0.956)    41   2945461                     0.00-  48.76    19.96
-------------------------------------------------------------------------------
   50 cis-1,2-Dichloroethene                        CAS #: 156-59-2
 15.592  15.592 (0.979)    98   2291668 40.0000   37.181  80.00- 120.00   100.00
 15.592  15.592 (0.979)    61   6227951                   232.32- 292.32   271.76
 15.592  15.592 (0.979)    96   3608962                   127.66- 187.66   157.48
-------------------------------------------------------------------------------
   51 2-Butanone                                    CAS #: 78-93-3
 15.572  15.572 (0.977)    72   1603520 40.0000   39.156  80.00- 120.00   100.00
 15.572  15.572 (0.977)    43  11210428                   621.62- 681.62   699.11
```

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

   51 2-Butanone (continued)
 15.572  15.572 (0.977)    57    793342                    17.09-  77.09    49.48
-------------------------------------------------------------------------------
   53 Tetrahydrofuran                                CAS #: 109-99-9
 15.903  15.903 (0.998)    42   6545294 40.0000   36.623  80.00- 120.00   100.00
 15.934  15.934 (1.000)    71   1417655                     0.00-  54.64    21.66
 15.934  15.934 (1.000)    72   1557644                     0.00-  57.57    23.80
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83   6880587 40.0000   37.751  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85   4414704                    34.22-  94.22    64.16
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.242  16.242 (1.019)    84   4560231 40.0000   36.817  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56   8669274                   145.90- 205.90   190.11
 16.242  16.242 (1.019)    41   4718852                    62.61- 122.61   103.48
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97   7287277 40.0000   35.885  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99   4612721                    34.05-  94.05    63.30
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                           CAS #: 56-23-5
 16.427  16.427 (1.031)   119   7222115 40.0000   38.962  80.00- 120.00   100.00
 16.427  16.427 (1.031)   117   7062649                    68.83- 128.83    97.79
                   Sum of Peak Amounts =              39
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                         CAS #: 540-84-1
 16.728  16.728 (1.050)    56   7992762 40.0000   35.747  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57  24077495                   271.70- 331.70   301.24
 16.728  16.728 (1.050)    41   6773428                    52.41- 112.41    84.74
-------------------------------------------------------------------------------
   64 Benzene                                        CAS #: 71-43-2
 16.756  16.756 (0.968)    78   9217276 40.0000   36.574  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77   2127615                     0.00-  53.49    23.08
-------------------------------------------------------------------------------
   66 tert-amyl methyl ether                         CAS #: 994-05-8
 16.811  16.811 (0.971)    87   2478010 40.0000   38.266  80.00- 120.00   100.00
 16.811  16.811 (0.971)    73   9915029                   368.43- 428.43   400.12
 16.811  16.811 (0.971)    55   3894996                   120.38- 180.38   157.18
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                             CAS #: 107-06-2
 16.865  16.865 (0.975)    62   5586736 40.0000   37.244  80.00- 120.00   100.00
 16.865  16.865 (0.975)    64   1644369                     0.00-  59.91    29.43
-------------------------------------------------------------------------------
   69 Heptane                                        CAS #: 142-82-5
 16.948  16.948 (0.979)    57   4514327 40.0000   37.834  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
69 Heptane (continued)							
16.975	16.975 (0.981)	100	997491			0.00- 53.77	22.10
16.948	16.948 (0.979)	43	9593707			172.35- 232.35	212.52
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	5035482	40.0000	39.150	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	4679787			65.17- 125.17	92.94
17.717	17.717 (1.024)	97	2998245			31.34- 91.34	59.54
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	6063169	40.0000	38.393	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	2870129			17.27- 77.27	47.34
17.964	17.964 (1.038)	55	7614564			91.54- 151.54	125.59
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.128	18.128 (1.048)	63	4800802	40.0000	38.815	80.00- 120.00	100.00
18.128	18.128 (1.048)	62	3526637			43.25- 103.25	73.46
18.128	18.128 (1.048)	41	3089136			33.86- 93.86	64.35
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	2454844	40.0000	34.084	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	2582937			73.29- 133.29	105.22
18.266	18.266 (1.056)	57	824851			3.70- 63.70	33.60
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	7327337	40.0000	39.291	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	4704648			33.07- 93.07	64.21
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	6205263	40.0000	40.158	80.00- 120.00	100.00(A)
19.386	19.386 (1.120)	77	1939520			0.97- 60.97	31.26
19.386	19.386 (1.120)	39	4585903			40.23- 100.23	73.90
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	13115612	40.0000	37.194	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	4490403			6.07- 66.07	34.24
19.588	19.588 (1.132)	85	1353440			0.00- 41.52	10.32
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	10531823	40.0000	36.675	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	6187987			28.55- 88.55	58.76
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.399	20.399 (0.919)	75	5426695	40.0000	39.732	80.00- 120.00	100.00
20.399	20.399 (0.919)	77	1734995			1.39- 61.39	31.97
20.399	20.399 (0.919)	39	3863592			36.57- 96.57	71.20

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

   84 1,1,2-Trichloroethane                        CAS #: 79-00-5
 20.722  20.722 (0.933)    97   4382344 40.0000   40.167  80.00- 120.00   100.00(A)
 20.722  20.722 (0.933)    99   2715875                   32.18-  92.18    61.97
 20.722  20.722 (0.933)    83   3654695                   54.91- 114.91    83.40
-------------------------------------------------------------------------------
   86 Tetrachloroethene                            CAS #: 127-18-4
 20.901  20.901 (0.941)   166   6063702 40.0000   36.920  80.00- 120.00   100.00
 20.901  20.901 (0.941)   129   4639922                   50.27- 110.27    76.52
 20.901  20.901 (0.941)   131   4664416                   49.16- 109.16    76.92
-------------------------------------------------------------------------------
   87 2-Hexanone                                   CAS #: 591-78-6
 21.009  21.009 (0.946)    58   5738479 40.0000   40.340  80.00- 120.00   100.00(A)
 21.009  21.009 (0.946)    43  12111354                  171.66- 231.66   211.06
 21.009  21.009 (0.946)   100    791859                    0.00-  44.23    13.80
-------------------------------------------------------------------------------
   89 Dibromochloromethane                         CAS #: 124-48-1
 21.367  21.367 (0.962)   129   8735810 40.0000   41.183  80.00- 120.00   100.00(A)
 21.367  21.367 (0.962)   127   6782221                   46.63- 106.63    77.64
-------------------------------------------------------------------------------
   90 1,2-Dibromoethane                            CAS #: 106-93-4
 21.583  21.583 (0.972)   107   7413786 40.0000   40.687  80.00- 120.00   100.00(A)
 21.583  21.583 (0.972)   109   6998810                   62.25- 122.25    94.40
-------------------------------------------------------------------------------
   93 Chlorobenzene                                CAS #: 108-90-7
 22.233  22.233 (1.001)   112   9318661 40.0000   37.207  80.00- 120.00   100.00
 22.233  22.233 (1.001)   114   2956997                    1.87-  61.87    31.73
 22.233  22.233 (1.001)    77   5017886                   27.42-  87.42    53.85
-------------------------------------------------------------------------------
   95 Ethyl Benzene                                CAS #: 100-41-4
 22.315  22.315 (1.005)   106   4437143 40.0000   37.491  80.00- 120.00   100.00
 22.315  22.315 (1.005)    91  12676436                  258.78- 318.78   285.69
-------------------------------------------------------------------------------
   96 m,p-Xylene                                   CAS #: 108-38-3
 22.452  22.452 (1.011)   106   4399104 40.0000   36.801  80.00- 120.00   100.00
 22.452  22.452 (1.011)    91   8242961                  162.81- 222.81   187.38
-------------------------------------------------------------------------------
  100 o-Xylene                                     CAS #: 95-47-6
 23.002  23.002 (1.036)   106   4144168 40.0000   37.711  80.00- 120.00   100.00
 23.002  23.002 (1.036)    91   8112184                  171.98- 231.98   195.75
-------------------------------------------------------------------------------
  101 Styrene                                      CAS #: 100-42-5
 23.029  23.029 (1.037)   104   6512544 40.0000   39.742  80.00- 120.00   100.00
 23.029  23.029 (1.037)    78   3086632                   21.36-  81.36    47.40
-------------------------------------------------------------------------------
  102 Bromoform                                    CAS #: 75-25-2
 23.331  23.331 (1.051)   173   8066678 40.0000   42.508  80.00- 120.00   100.00(A)
```

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

  102 Bromoform (continued)
 23.331  23.331 (1.051)   171   4122710                    21.13-  81.13    51.11
-------------------------------------------------------------------------------
  103 Cumene                                        CAS #: 98-82-8
 23.413  23.413 (1.054)   105  12305214 40.0000   39.605  80.00- 120.00   100.00
 23.413  23.413 (1.054)   120   3700842                     0.35-  60.35    30.08
-------------------------------------------------------------------------------
  108 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
 23.833  23.833 (1.073)    83   7787736 40.0000   35.646  80.00- 120.00   100.00
 23.833  23.833 (1.073)    85   4996188                    36.04-  96.04    64.15
-------------------------------------------------------------------------------
  111 Propylbenzene                                 CAS #: 103-65-1
 23.910  23.910 (1.077)    91  10875367 40.0000   37.578  80.00- 120.00   100.00
 23.910  23.910 (1.077)   120   2938341                     0.00-  56.65    27.02
-------------------------------------------------------------------------------
  113 4-Ethyltoluene                                CAS #: 622-96-8
 24.039  24.039 (1.083)   105   8190550 40.0000   37.332  80.00- 120.00   100.00
 24.039  24.039 (1.083)   120   2777829                     3.46-  63.46    33.92
-------------------------------------------------------------------------------
  114 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 24.091  24.091 (1.085)   105   6300195 40.0000   29.082  80.00- 120.00   100.00
 24.091  24.091 (1.085)   120   3304674                    21.43-  81.43    52.45
-------------------------------------------------------------------------------
  120 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 24.529  24.529 (1.105)   105   5111854 40.0000   26.729  80.00- 120.00   100.00
 24.529  24.529 (1.105)   120   2575529                    18.67-  78.67    50.38
-------------------------------------------------------------------------------
  122 1,3-Dichlorobenzene                           CAS #: 541-73-1
 24.902  24.902 (1.121)   146   5640788 40.0000   36.991  80.00- 120.00   100.00
 24.902  24.902 (1.121)   148   3561254                    33.26-  93.26    63.13
 24.880  24.880 (1.120)   111   2203498                     9.81-  69.81    39.06
-------------------------------------------------------------------------------
  124 1,4-Dichlorobenzene                           CAS #: 106-46-7
 24.992  24.992 (1.125)   146   5142245 40.0000   31.826  80.00- 120.00   100.00
 24.992  24.992 (1.125)   148   3254097                    32.99-  92.99    63.28
 24.992  24.992 (1.125)   111   1968299                     8.98-  68.98    38.28
-------------------------------------------------------------------------------
  127 alpha-chlorotoluene                           CAS #: 100-44-7
 25.127  25.127 (1.132)    91   8010390 40.0000   42.747  80.00- 120.00   100.00(A)
 25.127  25.127 (1.132)   126   1899637                     0.00-  53.33    23.71
-------------------------------------------------------------------------------
  128 1,2-Dichlorobenzene                           CAS #: 95-50-1
 25.396  25.396 (1.144)   146   5191357 40.0000   33.801  80.00- 120.00   100.00
 25.396  25.396 (1.144)   148   3280648                    33.33-  93.33    63.19
 25.396  25.396 (1.144)   111   2080776                    12.11-  72.11    40.08
-------------------------------------------------------------------------------
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 1,2,4-Trichlorobenzene							CAS #: 120-82-1	
27.055	27.055	(1.218)	180	3291771	40.0000	23.663	80.00- 120.00	100.00
27.055	27.055	(1.218)	182	3127395			66.11- 126.11	95.01
132 Hexachlorobutadiene							CAS #: 87-68-3	
27.167	27.167	(1.223)	225	3685524	40.0000	36.650	80.00- 120.00	100.00
27.167	27.167	(1.223)	223	2310345			31.45- 91.45	62.69
133 Naphthalene							CAS #: 91-20-3	
27.368	27.368	(1.232)	128	642299	4.00000	3.080	80.00- 120.00	100.00
27.368	27.368	(1.232)	127	83863			0.00- 43.32	13.06

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012313.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdv.i/23Jan2015.b/v15l0123a.m
Misc Info: 40ppbv (50ppbv)

Calibration Date: 23-JAN-2015
Calibration Time: 20:25
Client Smp ID: Level 12
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	253263	151958	354568	261625	3.30
71 1,4-Difluorobenze	1019789	611873	1427705	1015137	-0.46
92 Chlorobenzene-d5	833326	499996	1166656	801590	-3.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/23Jan2015.b/v012313.d

Date : 23-JAN-2015 22:26

Client ID: Level 12

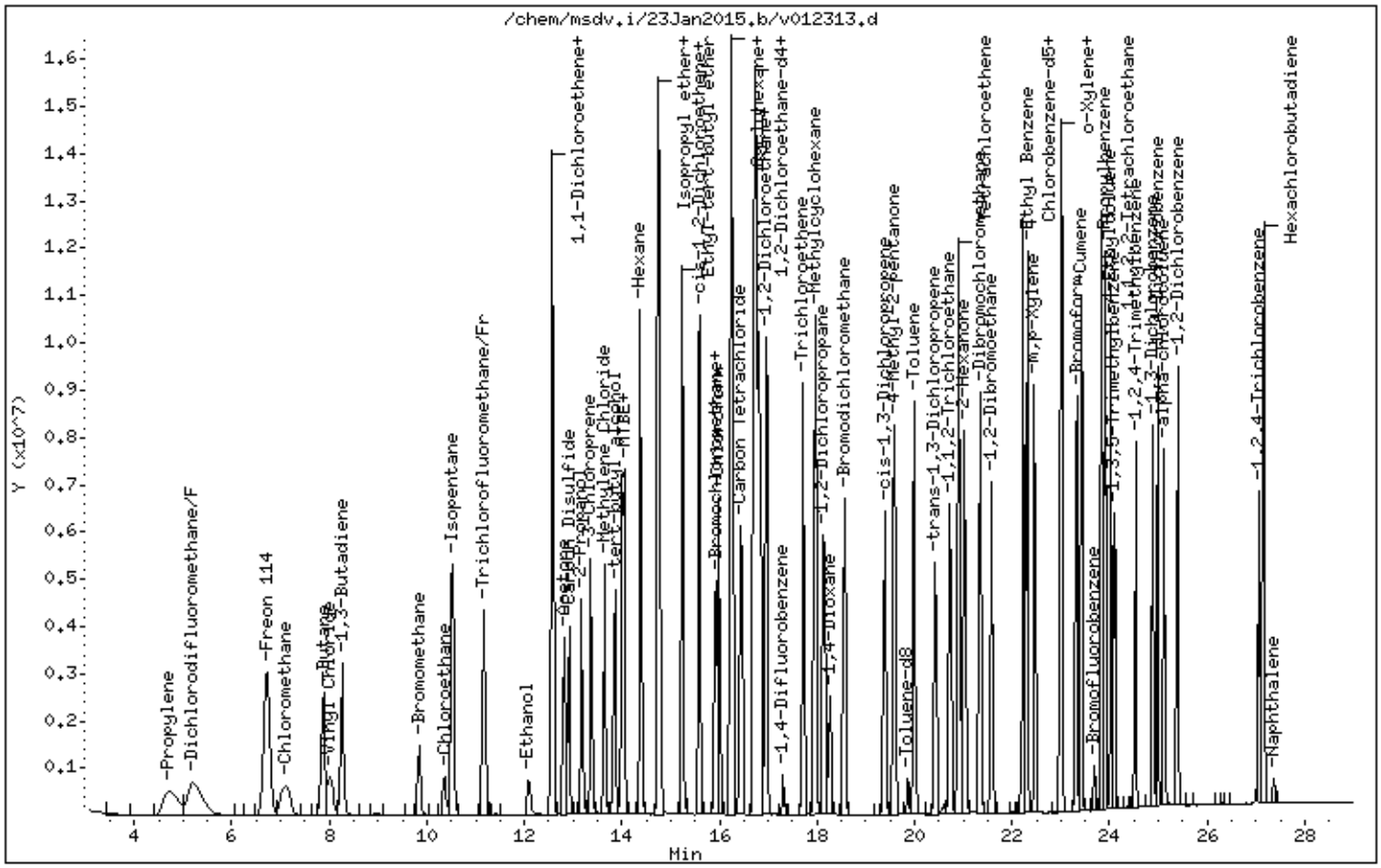
Instrument: msdv.i

Sample Info: 200mL# 2687-244

Operator: gh

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/27Jan2015.b/v012707.d
Lab Smp Id: ICAL Client Smp ID: Level 13
Inj Date : 27-JAN-2015 12:52
Operator : ef Inst ID: msdv.i
Smp Info : 100mL# 2716-22
Misc Info : 2.0ppbv (5.0ppbv) AT-1
Comment : Low Level GC-MS
Method : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Meth Date : 28-Jan-2015 08:21 efinn Quant Type: ISTD
Cal Date : 27-JAN-2015 12:52 Cal File: v012707.d
Als bottle: 1 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1crv.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.933	15.933 (1.000)	130	228109	5.00000		70.00- 130.00	100.00
15.933	15.933 (1.000)	128	186209			0.00- 30.00	81.63
15.933	15.933 (1.000)	49	501656			0.00- 30.00	219.92
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	938902	5.00000		70.00- 130.00	100.00
17.305	17.305 (1.000)	88	148083			0.00- 30.00	15.77
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	754579	5.00000		70.00- 130.00	100.00
22.205	22.205 (1.000)	82	427885			0.00- 30.00	56.71
1 Freon 134a						CAS #: 811-97-2	
4.522	4.522 (0.284)	83	92007	2.00000	2.046	70.00- 130.00	100.00
4.485	4.485 (0.281)	69	78316			0.00- 30.00	85.12
2 Freon 152A						CAS #: 75-37-6	
5.013	5.013 (0.315)	65	61290	2.00000	2.028	70.00- 130.00	100.00
5.013	5.013 (0.315)	51	164128			0.00- 30.00	267.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon 22					CAS #: 75-45-6		
5.768	5.768 (0.362)	51	257968	2.00000	2.054	70.00- 130.00	100.00
5.731	5.731 (0.360)	67	24919			0.00- 30.00	9.66
5.768	5.768 (0.362)	85	2131			0.00- 30.00	0.83
218 Freon 142b					CAS #: 75-68-3		
7.015	7.015 (0.440)	65	231741	2.00000	2.009	70.00- 130.00	100.00
7.015	7.015 (0.440)	45	74730			0.00- 30.00	32.25
14 Freon 21					CAS #: 75-43-4		
11.280	11.280 (0.708)	67	267413	2.00000	1.994	70.00- 130.00	100.00
11.280	11.280 (0.708)	69	77386			0.00- 30.00	28.94
11.280	11.280 (0.708)	47	38143			0.00- 30.00	14.26
216 1,2-Dichlorotrifluoroethane					CAS #: 354-23-4		
12.321	12.321 (0.773)	117	195845	2.00000	2.017	70.00- 130.00	100.00
12.321	12.321 (0.773)	67	262010			0.00- 30.00	133.78
217 Freon 123					CAS #: 306-83-2		
12.513	12.513 (0.785)	83	296661	2.00000	2.033	70.00- 130.00	100.00
12.513	12.513 (0.785)	133	63605			0.00- 30.00	21.44
12.513	12.513 (0.785)	85	190022			0.00- 30.00	64.05
211 Cyclopentene					CAS #: 142-29-0		
13.420	13.420 (0.842)	67	231808	2.00000	1.953	70.00- 130.00	100.00
13.420	13.420 (0.842)	68	88318			0.00- 30.00	38.10
13.420	13.420 (0.842)	53	71942			0.00- 30.00	31.04
210 1-Propanol					CAS #: 71-23-8		
14.902	14.902 (0.935)	59	29605	2.00000	2.062	70.00- 130.00	100.00
14.902	14.902 (0.935)	42	34624			0.00- 30.00	116.95
14.902	14.902 (0.935)	41	20839			0.00- 30.00	70.39
215 2,2-Dichloropropane					CAS #: 594-20-7		
15.551	15.551 (0.976)	77	235992	2.00000	1.982	70.00- 130.00	100.00
15.551	15.551 (0.976)	79	75340			0.00- 30.00	31.92
15.551	15.551 (0.976)	97	54395			0.00- 30.00	23.05
56 1,1-Dicholoropropene					CAS #: 563-58-6		
16.457	16.457 (1.033)	110	79844	2.00000	1.974	70.00- 130.00	100.00
16.457	16.457 (1.033)	75	208958			0.00- 30.00	261.71
214 Isobutanol					CAS #: 78-83-1		
16.519	16.519 (1.037)	41	136335	2.00000	1.849	70.00- 130.00	100.00
16.519	16.519 (1.037)	43	206645			0.00- 30.00	151.57
16.457	16.457 (1.033)	39	227257			0.00- 30.00	166.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
206 1-Butanol					CAS #: 71-36-3		
17.469	17.469 (1.010)	56	232529	2.00000	2.270	70.00- 130.00	100.00
17.469	17.469 (1.010)	41	168839			0.00- 30.00	72.61
17.469	17.469 (1.010)	43	129745			0.00- 30.00	55.80
83 1,3-Dichloropropane					CAS #: 142-28-9		
21.044	21.044 (1.216)	76	239939	2.00000	1.976	70.00- 130.00	100.00
21.044	21.044 (1.216)	41	279123			0.00- 30.00	116.33
21.044	21.044 (1.216)	78	75429			0.00- 30.00	31.44
204 Butyl Acetate					CAS #: 123-86-4		
21.152	21.152 (1.222)	56	111012	2.00000	2.038	70.00- 130.00	100.00
21.152	21.152 (1.222)	73	25448			0.00- 30.00	22.92
21.152	21.152 (1.222)	43	287236			0.00- 30.00	258.74
91 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
22.342	22.342 (1.006)	131	263739	2.00000	1.946	70.00- 130.00	100.00
22.342	22.342 (1.006)	117	165986			0.00- 30.00	62.94
22.342	22.342 (1.006)	95	91065			0.00- 30.00	34.53
205 2-Heptanone					CAS #: 110-43-0		
23.111	23.111 (1.041)	58	246797	2.00000	1.966	70.00- 130.00	100.00
23.111	23.111 (1.041)	43	486465			0.00- 30.00	197.11
209 Cyclohexanone					CAS #: 108-94-1		
23.652	23.652 (1.065)	55	212097	2.00000	1.888	70.00- 130.00	100.00
23.652	23.652 (1.065)	98	61145			0.00- 30.00	28.83
23.652	23.652 (1.065)	42	151270			0.00- 30.00	71.32
97 Bromobenzene					CAS #: 108-86-1		
23.884	23.884 (1.076)	156	210834	2.00000	1.953	70.00- 130.00	100.00
23.884	23.884 (1.076)	158	205388			0.00- 30.00	97.42
23.884	23.884 (1.076)	77	384530			0.00- 30.00	182.39
105 1,2,3-Trichloropropane					CAS #: 96-18-4		
23.910	23.910 (1.077)	110	113782	2.00000	1.981	70.00- 130.00	100.00
23.910	23.910 (1.077)	75	297039			0.00- 30.00	261.06
23.910	23.910 (1.077)	61	104066			0.00- 30.00	91.46
107 2-Chlorotoluene					CAS #: 95-49-8		
24.090	24.090 (1.085)	126	132531	2.00000	2.068	70.00- 130.00	100.00
24.065	24.065 (1.084)	91	328091			0.00- 30.00	247.56
24.065	24.065 (1.084)	65	36158			0.00- 30.00	27.28
109 4-Chlorotoluene					CAS #: 106-43-4		
24.194	24.194 (1.090)	126	105798	2.00000	2.025	70.00- 130.00	100.00

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

  109 4-Chlorotoluene (continued)
 24.194  24.194 (1.090)    91    289848                    0.00-  30.00   273.96
 24.194  24.194 (1.090)    63     43444                    0.00-  30.00    41.06
-------------------------------------------------------------------------------
  213 Diisobutyl Ketone                            CAS #: 108-83-8
 24.219  24.219 (1.091)    57    443224 2.00000    1.920  70.00- 130.00   100.00
 24.219  24.219 (1.091)    85    245095                    0.00-  30.00    55.30
-------------------------------------------------------------------------------
  115 tert-Butylbenzene                            CAS #: 98-06-6
 24.477  24.477 (1.102)   119    306669 2.00000    2.113  70.00- 130.00   100.00
 24.477  24.477 (1.102)   134     69840                    0.00-  30.00    22.77
 24.477  24.477 (1.102)    91    171693                    0.00-  30.00    55.99
-------------------------------------------------------------------------------
  212 Pentachloroethane                            CAS #: 76-01-7
 24.555  24.555 (1.106)   167    174048 2.00000    1.966  70.00- 130.00   100.00
 24.555  24.555 (1.106)   117    161406                    0.00-  30.00    92.74
 24.555  24.555 (1.106)   169     81643                    0.00-  30.00    46.91
-------------------------------------------------------------------------------
  119 sec-Butylbenzene                             CAS #: 135-98-8
 24.709  24.709 (1.113)   105    373572 2.00000    1.974  70.00- 130.00   100.00
 24.709  24.709 (1.113)   134     89777                    0.00-  30.00    24.03
 24.709  24.709 (1.113)    91     57921                    0.00-  30.00    15.50
-------------------------------------------------------------------------------
  116 p-Cymene                                     CAS #: 99-87-6
 24.835  24.835 (1.118)   119    377894 2.00000    1.961  70.00- 130.00   100.00
 24.835  24.835 (1.118)   134    110568                    0.00-  30.00    29.26
 24.835  24.835 (1.118)    91     81070                    0.00-  30.00    21.45
-------------------------------------------------------------------------------
  121 1,2,3-trimethylbenzene                       CAS #: 526-73-8
 24.992  24.992 (1.125)   120    167191 2.00000    1.943  70.00- 130.00   100.00
 24.992  24.992 (1.125)   105    367543                    0.00-  30.00   219.83
 24.992  24.992 (1.125)    77     40929                    0.00-  30.00    24.48
-------------------------------------------------------------------------------
  123 Butylbenzene                                 CAS #: 104-51-8
 25.261  25.261 (1.138)   134    129949 2.00000    1.961  70.00- 130.00   100.00
 25.261  25.261 (1.138)    91    410822                    0.00-  30.00   316.14
 25.261  25.261 (1.138)    92    224559                    0.00-  30.00   172.81
-------------------------------------------------------------------------------
  129 1,2-dibromo-3-chloropropane                  CAS #: 96-12-8
 26.202  26.202 (1.180)   157    179081 2.00000    2.028  70.00- 130.00   100.00
 26.202  26.202 (1.180)    75    146805                    0.00-  30.00    81.98
 26.202  26.202 (1.180)   155    132229                    0.00-  30.00    73.84
-------------------------------------------------------------------------------
```

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012707.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/27Jan2015.b/v15l0123b.m
Misc Info: 2.0ppbv (5.0ppbv) AT-1

Calibration Date: 27-JAN-2015
Calibration Time: 12:09
Client Smp ID: Level 13
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	239010	143406	334614	228109	-4.56
71 1,4-Difluorobenze	931417	558850	1303984	938902	0.80
92 Chlorobenzene-d5	734924	440954	1028894	754579	2.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/27Jan2015.b/v012707.d

Date : 27-JAN-2015 12:52

Client ID: Level 13

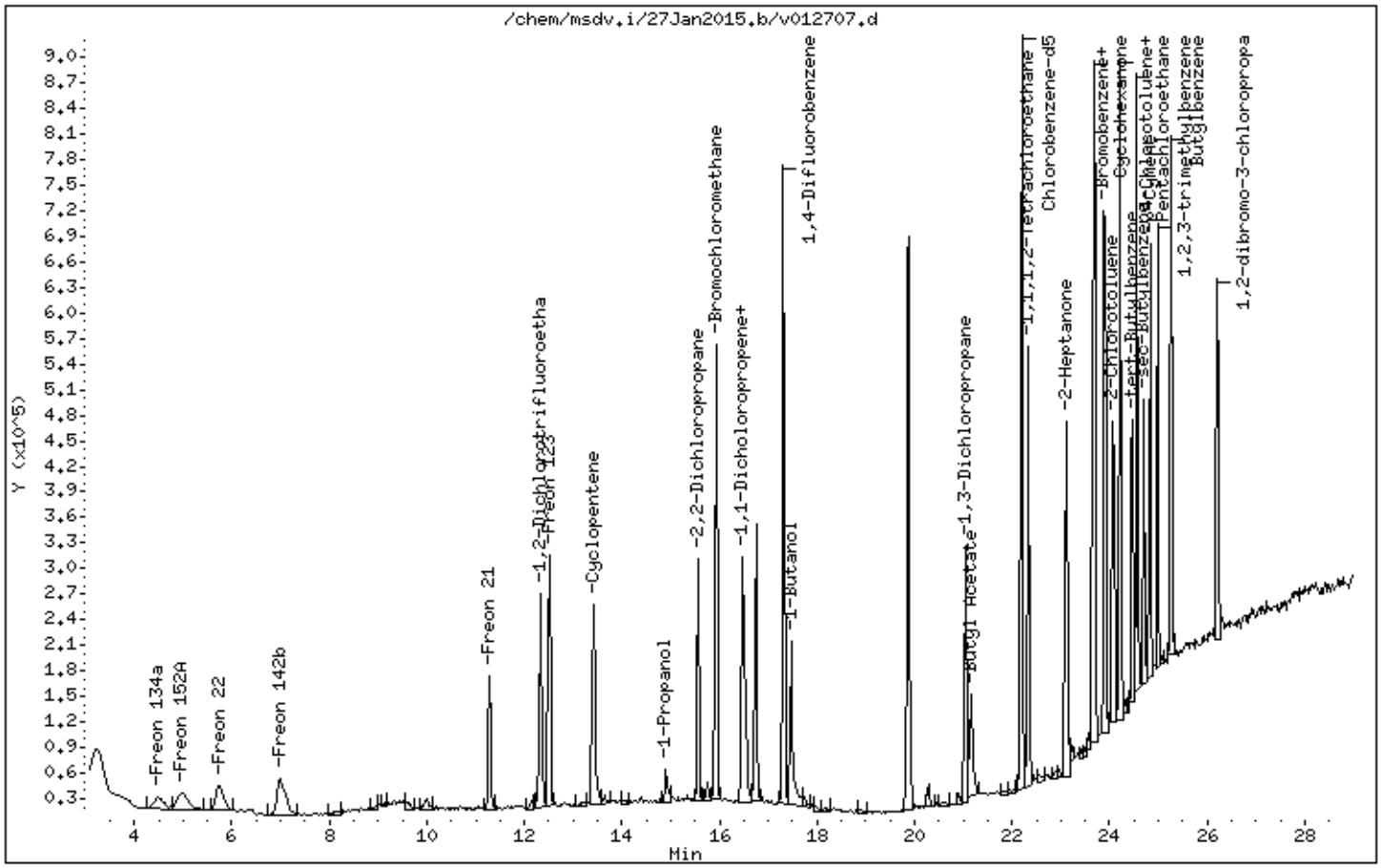
Instrument: msdv.i

Sample Info: 100mL# 2716-22

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/27Jan2015.b/v012708.d
Lab Smp Id: ICAL Client Smp ID: Level 16
Inj Date : 27-JAN-2015 13:35
Operator : ef Inst ID: msdv.i
Smp Info : 200mL# 2716-22
Misc Info : 4.0ppbv (5.0ppbv) AT-1
Comment : Low Level GC-MS
Method : /chem/msdv.i/27Jan2015.b/v15l0123b.m
Meth Date : 28-Jan-2015 08:21 efinn Quant Type: ISTD
Cal Date : 27-JAN-2015 13:35 Cal File: v012708.d
Als bottle: 1 Calibration Sample, Level: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1crv.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	230717	5.00000		70.00- 130.00	100.00
15.934	15.934 (1.000)	128	188461			0.00- 30.00	81.68
15.934	15.934 (1.000)	49	492555			0.00- 30.00	213.49
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	951533	5.00000		70.00- 130.00	100.00
17.305	17.305 (1.000)	88	148045			0.00- 30.00	15.56
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	742580	5.00000		70.00- 130.00	100.00
22.205	22.205 (1.000)	82	411898			0.00- 30.00	55.47
1 Freon 134a						CAS #: 811-97-2	
4.560	4.560 (0.286)	83	175011	4.00000	3.848	70.00- 130.00	100.00
4.522	4.522 (0.284)	69	140483			0.00- 30.00	80.27
2 Freon 152A						CAS #: 75-37-6	
5.051	5.051 (0.317)	65	115584	4.00000	3.781	70.00- 130.00	100.00
5.051	5.051 (0.317)	51	316595			0.00- 30.00	273.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon 22					CAS #: 75-45-6		
5.806	5.806 (0.364)	51	510391	4.00000	4.018	70.00- 130.00	100.00
5.806	5.806 (0.364)	67	46476			0.00- 30.00	9.11
5.882	5.882 (0.369)	85	4619			0.00- 30.00	0.90
218 Freon 142b					CAS #: 75-68-3		
7.015	7.015 (0.440)	65	454230	4.00000	3.893	70.00- 130.00	100.00
7.015	7.015 (0.440)	45	146587			0.00- 30.00	32.27
14 Freon 21					CAS #: 75-43-4		
11.280	11.280 (0.708)	67	517120	4.00000	3.812	70.00- 130.00	100.00
11.280	11.280 (0.708)	69	161750			0.00- 30.00	31.28
11.280	11.280 (0.708)	47	75223			0.00- 30.00	14.55
216 1,2-Dichlorotrifluoroethane					CAS #: 354-23-4		
12.321	12.321 (0.773)	117	379985	4.00000	3.869	70.00- 130.00	100.00
12.321	12.321 (0.773)	67	533024			0.00- 30.00	140.28
217 Freon 123					CAS #: 306-83-2		
12.514	12.514 (0.785)	83	586486	4.00000	3.974	70.00- 130.00	100.00
12.514	12.514 (0.785)	133	139353			0.00- 30.00	23.76
12.514	12.514 (0.785)	85	374963			0.00- 30.00	63.93
211 Cyclopentene					CAS #: 142-29-0		
13.420	13.420 (0.842)	67	472926	4.00000	3.940	70.00- 130.00	100.00
13.420	13.420 (0.842)	68	166957			0.00- 30.00	35.30
13.420	13.420 (0.842)	53	150431			0.00- 30.00	31.81
210 1-Propanol					CAS #: 71-23-8		
14.903	14.903 (0.935)	59	67562	4.00000	4.653	70.00- 130.00	100.00
14.903	14.903 (0.935)	42	74895			0.00- 30.00	110.85
14.903	14.903 (0.935)	41	44001			0.00- 30.00	65.13
215 2,2-Dichloropropane					CAS #: 594-20-7		
15.551	15.551 (0.976)	77	469596	4.00000	3.900	70.00- 130.00	100.00
15.551	15.551 (0.976)	79	154419			0.00- 30.00	32.88
15.551	15.551 (0.976)	97	100963			0.00- 30.00	21.50
56 1,1-Dicholoropropene					CAS #: 563-58-6		
16.457	16.457 (1.033)	110	161113	4.00000	3.939	70.00- 130.00	100.00
16.457	16.457 (1.033)	75	414658			0.00- 30.00	257.37
214 Isobutanol					CAS #: 78-83-1		
16.519	16.519 (1.037)	41	287325	4.00000	3.852	70.00- 130.00	100.00
16.519	16.519 (1.037)	43	421616			0.00- 30.00	146.74
16.457	16.457 (1.033)	39	449684			0.00- 30.00	156.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
206 1-Butanol					CAS #: 71-36-3		
17.469	17.469 (1.010)	56	540062	4.00000	5.202	70.00- 130.00	100.00
17.469	17.469 (1.010)	41	411772			0.00- 30.00	76.25
17.469	17.469 (1.010)	43	318972			0.00- 30.00	59.06
83 1,3-Dichloropropane					CAS #: 142-28-9		
21.045	21.045 (1.216)	76	480861	4.00000	3.908	70.00- 130.00	100.00
21.045	21.045 (1.216)	41	525356			0.00- 30.00	109.25
21.045	21.045 (1.216)	78	150564			0.00- 30.00	31.31
204 Butyl Acetate					CAS #: 123-86-4		
21.152	21.152 (1.222)	56	223022	4.00000	4.039	70.00- 130.00	100.00
21.152	21.152 (1.222)	73	46616			0.00- 30.00	20.90
21.152	21.152 (1.222)	43	616741			0.00- 30.00	276.54
91 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
22.343	22.343 (1.006)	131	513440	4.00000	3.851	70.00- 130.00	100.00
22.343	22.343 (1.006)	117	338173			0.00- 30.00	65.86
22.343	22.343 (1.006)	95	182681			0.00- 30.00	35.58
205 2-Heptanone					CAS #: 110-43-0		
23.111	23.111 (1.041)	58	469994	4.00000	3.804	70.00- 130.00	100.00
23.111	23.111 (1.041)	43	885797			0.00- 30.00	188.47
209 Cyclohexanone					CAS #: 108-94-1		
23.652	23.652 (1.065)	55	452990	4.00000	4.098	70.00- 130.00	100.00
23.652	23.652 (1.065)	98	131966			0.00- 30.00	29.13
23.652	23.652 (1.065)	42	312689			0.00- 30.00	69.03
97 Bromobenzene					CAS #: 108-86-1		
23.884	23.884 (1.076)	156	414150	4.00000	3.898	70.00- 130.00	100.00
23.884	23.884 (1.076)	158	386246			0.00- 30.00	93.26
23.884	23.884 (1.076)	77	717666			0.00- 30.00	173.29
105 1,2,3-Trichloropropane					CAS #: 96-18-4		
23.910	23.910 (1.077)	110	217371	4.00000	3.846	70.00- 130.00	100.00
23.910	23.910 (1.077)	75	581285			0.00- 30.00	267.42
23.910	23.910 (1.077)	61	196454			0.00- 30.00	90.38
107 2-Chlorotoluene					CAS #: 95-49-8		
24.091	24.091 (1.085)	126	244800	4.00000	3.882	70.00- 130.00	100.00
24.065	24.065 (1.084)	91	617544			0.00- 30.00	252.26
24.065	24.065 (1.084)	65	67830			0.00- 30.00	27.71
109 4-Chlorotoluene					CAS #: 106-43-4		
24.194	24.194 (1.090)	126	194544	4.00000	3.784	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
109 4-Chlorotoluene (continued)							
24.194	24.194 (1.090)	91	515245			0.00- 30.00	264.85
24.194	24.194 (1.090)	63	76335			0.00- 30.00	39.24
213 Diisobutyl Ketone					CAS #: 108-83-8		
24.220	24.220 (1.091)	57	702936	4.00000	3.094	70.00- 130.00	100.00
24.220	24.220 (1.091)	85	395439			0.00- 30.00	56.26
115 tert-Butylbenzene					CAS #: 98-06-6		
24.477	24.477 (1.102)	119	526462	4.00000	3.686	70.00- 130.00	100.00
24.477	24.477 (1.102)	134	136853			0.00- 30.00	25.99
24.477	24.477 (1.102)	91	322379			0.00- 30.00	61.23
212 Pentachloroethane					CAS #: 76-01-7		
24.555	24.555 (1.106)	167	344388	4.00000	3.953	70.00- 130.00	100.00
24.555	24.555 (1.106)	117	318832			0.00- 30.00	92.58
24.555	24.555 (1.106)	169	160427			0.00- 30.00	46.58
119 sec-Butylbenzene					CAS #: 135-98-8		
24.710	24.710 (1.113)	105	659732	4.00000	3.543	70.00- 130.00	100.00
24.710	24.710 (1.113)	134	152279			0.00- 30.00	23.08
24.710	24.710 (1.113)	91	107702			0.00- 30.00	16.33
116 p-Cymene					CAS #: 99-87-6		
24.835	24.835 (1.118)	119	603600	4.00000	3.182	70.00- 130.00	100.00
24.835	24.835 (1.118)	134	179422			0.00- 30.00	29.73
24.835	24.835 (1.118)	91	135993			0.00- 30.00	22.53
121 1,2,3-trimethylbenzene					CAS #: 526-73-8		
24.992	24.992 (1.125)	120	283034	4.00000	3.343	70.00- 130.00	100.00
24.992	24.992 (1.125)	105	620073			0.00- 30.00	219.08
24.992	24.992 (1.125)	77	69266			0.00- 30.00	24.47
123 Butylbenzene					CAS #: 104-51-8		
25.261	25.261 (1.138)	134	198258	4.00000	3.040	70.00- 130.00	100.00
25.261	25.261 (1.138)	91	654380			0.00- 30.00	330.06
25.261	25.261 (1.138)	92	364076			0.00- 30.00	183.64
129 1,2-dibromo-3-chloropropane					CAS #: 96-12-8		
26.203	26.203 (1.180)	157	342537	4.00000	3.942	70.00- 130.00	100.00
26.203	26.203 (1.180)	75	283916			0.00- 30.00	82.89
26.203	26.203 (1.180)	155	272213			0.00- 30.00	79.47

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v012708.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ef
Method File: /chem/msdv.i/27Jan2015.b/v15l0123b.m
Misc Info: 4.0ppbv (5.0ppbv) AT-1

Calibration Date: 27-JAN-2015
Calibration Time: 12:09
Client Smp ID: Level 16
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	239010	143406	334614	230717	-3.47
71 1,4-Difluorobenze	931417	558850	1303984	951533	2.16
92 Chlorobenzene-d5	734924	440954	1028894	742580	1.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/27Jan2015.b/v012708.d

Date : 27-JAN-2015 13:35

Client ID: Level 16

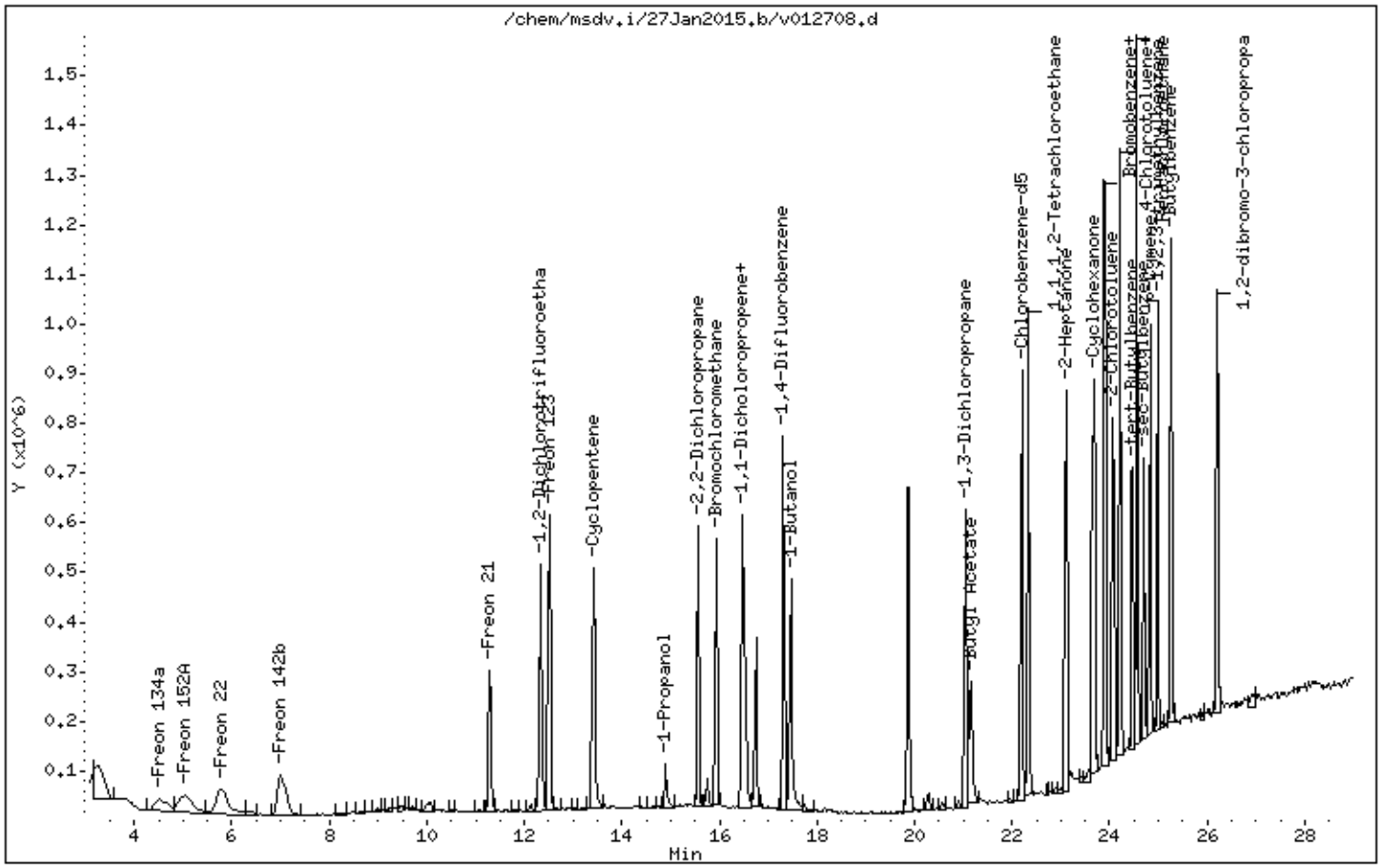
Instrument: msdv.i

Sample Info: 200mL# 2716-22

Operator: ef

Column phase: RTx-624

Column diameter: 0.32



Report Date : 18-Feb-2014 11:23

TO-15 Low level MD

~~0.5p~~ 2/20/14 83 0.1ppbv RLs Page 1

0.1ppbv (1.0ppbv); load amount: 25

MDL Verification: 0.09ppbv (6

load amount: ~~25mL~~ 2/20/14 83 # 2612-3

22.5

V021906

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/14Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/14Feb2014.b
Inst ID: msdv.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08			
FILENAME:	v021408	v021409	v021410	v021411	v021412	v021413	v021414	v021415			
INJ.DATE:	14-FEB-2014	14-FEB-2014	14-FEB-2014	14-FEB-2014	14-FEB-2014	14-FEB-2014	14-FEB-2014	14-FEB-2014			
INJ.TIME:	16:18	17:11	18:00	18:36	19:12	20:04	20:40	21:17			RL(ppbv)
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Dichlorodifluoromethan	139.62	127.29	128.28	107.44	144.97	126.38	118.82	140.28	129.13	12.39	37.13	100/50
5 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 114	118.74	110.46	110.77	100.52	113.37	114.01	112.48	114.66	111.88	5.27	15.79	100/50
7 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Vinyl Chloride	126.27	115.23	123.80	117.46	109.60	114.19	110.12	95.96	114.08	9.41	28.22	100
11 1,3-Butadiene	111.49	124.46	119.98	135.39	116.70	126.42	136.43	111.51	122.80	9.72	29.13	100
12 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 2/24/14
Reviewer 2 _____ Date: 2/24/14

$\bar{X}$ = 31.04 ppbv = 0.031 ppbv

$2\bar{x}$ = 0.06 ppbv

$3\bar{x}$ = 0.09 ppbv

$4\bar{x}$ = 0.12 ppbv

~~Special 0.05ppbv RL Not met for:~~
~~-1,2,4-Trichlorobenzene~~
~~-Hexachlorobutadiene~~ 8/2

Report Date : 18-Feb-2014 11:23

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/14Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/14Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL (PPBV)
17 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
18 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 Trichlorofluoromethane	116.29	98.86	97.20	101.43	124.45	111.17	112.38	104.32	108.26	9.45	28.33	100/50
21 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
27 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Freon 113	108.54	102.59	100.86	96.66	108.02	105.11	96.68	116.78	104.41	6.76	20.25	100/50
29 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
30 1,1-Dichloroethene	98.66	132.14	111.64	91.33	107.05	99.16	101.33	117.33	107.33	12.92	38.73	100
31 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
32 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 3-Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
36 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Methylene Chloride	135.54	118.29	109.51	104.95	134.15	111.90	127.39	118.80	120.07	11.36	34.05	200
38 tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Report Date : 18-Feb-2014 11:23

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/14Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/14Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL(ppbV)
39 MTBE	92.09	106.06	104.16	107.83	121.71	94.15	120.45	134.02	110.06	14.39	43.14	100
40 trans-1,2-Dichloroethe	121.50	109.49	120.15	102.96	95.61	116.25	112.26	116.11	111.79	8.85	26.52	100
41 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 Hexane	96.33	118.80	109.77	120.92	104.58	87.04	98.32	109.79	105.69	11.51	34.52	100
44 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 1,1-Dichloroethane	107.24	94.84	98.17	89.01	108.74	106.63	117.18	97.30	102.39	9.10	27.30	100
47 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
50 cis-1,2-Dichloroethene	113.41	91.05	102.51	106.31	80.51	128.34	101.60	74.61	99.79	17.47	52.37	100
51 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
53 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 54 Bromochloromethane	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00	
55 Chloroform	113.74	106.45	106.77	116.70	111.38	112.55	125.73	107.42	112.59	6.44	19.32	100
56 1,1-Dicholoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 Cyclohexane	94.99	78.53	108.12	85.62	102.03	84.99	102.46	109.33	95.76	11.57	34.69	100
58 1,1,1-Trichloroethane	85.70	86.21	98.23	126.78	109.96	92.85	101.07	102.84	100.46	13.48	40.43	100/50
59 Carbon Tetrachloride	104.74	97.03	84.42	76.55	70.88	79.62	89.94	90.50	86.71	11.12	33.33	100/50
60 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Report Date : 18-Feb-2014 11:23

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/14Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/14Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL (ppbv)
63 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
64 Benzene	102.27	118.30	115.44	112.04	111.89	122.33	102.03	89.29	109.20	10.73	32.15	2/12/11483 ~~20~~ 100
$ 65 1,2-Dichloroethane-d4	5263.33	5332.75	5197.56	5241.42	5458.98	5094.07	5222.19	5382.86	5274.15	114.39	342.94	
66 tert-amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
67 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 1,2-Dichloroethane	88.92	102.76	129.34	98.56	100.23	118.48	124.01	112.72	109.38	13.99	41.94	100
69 Heptane	87.20	84.91	89.90	82.28	94.02	79.43	108.59	92.23	89.82	9.04	27.09	100
70 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 71 1,4-Difluorobenzene	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00	
72 Trichloroethene	90.51	94.51	96.62	91.73	77.27	102.25	81.46	86.84	90.15	8.13	24.36	100/50
73 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
74 1,2-Dichloropropane	105.66	106.62	101.76	122.23	107.88	94.10	120.69	104.89	107.98	9.36	28.05	100
75 1,4-Dioxane	117.90	111.19	116.33	102.33	90.61	69.49	77.65	72.94	94.81	19.83	59.45	↓
76 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 Bromodichloromethane	107.90	96.38	101.34	96.04	81.23	106.11	74.21	76.43	92.46	13.35	40.03	100/50
78 cis-1,3-Dichloropropen	81.26	91.05	100.62	81.69	78.10	88.71	80.00	74.92	84.54	8.38	25.13	100
79 4-Methyl-2-pentanone	103.65	95.85	70.61	98.94	93.97	99.40	81.51	89.89	91.73	10.88	32.62	↓
$ 80 Toluene-d8	5047.72	4906.25	4849.61	4938.52	4879.00	5086.55	4960.03	4869.81	4942.19	85.69	256.91	2/12/11483
81 Toluene	103.24	100.77	115.09	103.92	98.95	94.97	112.27	98.73	103.49	6.92	20.74	100
82 trans-1,3-Dichloroprop	88.72	96.55	76.96	78.55	117.78	94.87	79.80	68.45	87.71	15.43	46.27	100
83 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
84 1,1,2-Trichloroethane	108.36	80.50	100.33	93.07	98.81	116.77	97.01	96.84	98.96	10.63	31.88	100/50
85 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Report Date : 18-Feb-2014 11:23

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/14Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/14Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL(ppbV)
86 Tetrachloroethene	98.61	87.76	97.76	97.99	100.06	109.47	98.85	96.20	98.34	5.91	17.71	100/50
87 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
88 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
89 Dibromochloromethane	87.41	76.11	76.12	75.53	70.49	67.08	71.37	85.58	76.21	7.10	21.29	100/50
90 1,2-Dibromoethane	87.42	80.94	80.49	101.56	99.72	93.02	87.71	79.53	88.80	8.62	25.83	100/50
91 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 92 Chlorobenzene-d5	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00	
93 Chlorobenzene	102.02	104.85	99.98	102.34	99.54	94.21	93.78	94.79	98.94	4.20	12.60	100
94 cis-1,4-dichloro-2-but	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
95 Ethyl Benzene	105.83	101.05	107.23	102.39	116.42	105.53	97.05	90.84	103.29	7.55	22.64	100
96 m,p-Xylene	113.16	116.11	119.13	98.71	98.81	108.72	106.06	98.16	107.36	8.32	24.95	100
97 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
98 trans-1,4-dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
99 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
100 o-Xylene	93.09	89.03	106.19	78.65	88.77	97.03	98.57	90.45	92.72	8.17	24.48	100
101 Styrene	82.80	79.66	82.55	80.97	92.74	86.88	72.17	78.73	82.06	6.02	18.06	100
102 Bromoform	77.30	75.11	85.62	72.06	74.97	74.64	69.81	73.35	75.36	4.71	14.13	100/50
103 Cumene	86.88	96.21	84.33	91.47	92.54	103.89	83.03	82.38	90.09	7.45	22.34	100
104 Bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2/21/14 983
105 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 106 Bromofluorobenzene	4860.55	5214.25	5098.28	5332.85	5175.79	4879.61	5196.77	5086.48	5105.57	163.98	491.61	
107 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
108 1,1,2,2-Tetrachloroeth	98.14	97.52	112.96	112.87	101.74	99.87	105.28	87.05	101.93	8.55	25.64	100/50
109 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Report Date : 18-Feb-2014 11:23

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/14Feb2014.b/v14l0107a.m
Batch File: /chem/msdv.i/14Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL (ppbv)
110 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
111 Propylbenzene	94.28	84.51	95.84	90.21	98.20	89.66	98.13	108.99	94.98	7.35	22.05	100
112 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 4-Ethyltoluene	92.30	98.16	102.03	104.72	117.02	94.27	85.81	112.91	100.90	10.51	31.50	100
114 1,3,5-Trimethylbenzene	96.10	112.60	98.68	132.91	87.31	108.61	116.79	110.03	107.88	14.04	42.09	100
115 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
117 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
118 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
120 1,2,4-Trimethylbenzene	128.60	137.18	144.52	135.14	138.16	112.03	125.32	148.50	133.68	11.56	34.67	100/50
121 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
122 1,3-Dichlorobenzene	77.72	112.33	102.79	102.65	104.71	99.42	92.91	107.95	100.06	10.69	32.04	100/50
123 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
124 1,4-Dichlorobenzene	105.64	100.65	103.11	99.65	91.08	97.32	99.47	97.19	99.26	4.35	13.05	100/50
125 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
126 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 alpha-chlorotoluene	104.29	93.43	81.66	87.12	83.31	92.84	86.05	70.31	87.37	9.97	29.88	100
128 1,2-Dichlorobenzene	89.33	119.49	97.17	89.42	99.85	119.94	85.29	86.33	98.35	14.11	42.29	100/50
129 1,2-dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
~~132 Hexachlorobutadiene~~	52.83	139.94	106.82	71.72	126.21	118.28	89.61	89.22	100.50	30.41	91.16	500 8/20/14 83
133 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

8/20/14 83
New ~~PA~~ MDL for SP RL performed 8/19/14

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/14Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/14Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
204 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 1-Methoxy-2-Propyl Ace	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 18-Feb-2014 19:41

TO15 Low level MDL
0.5ppbv RLs
0.5ppbv (1.0ppbv); load amount: 125mL # 2
MDL Verification: 0.3ppbv (1.0ppl
load amount: 75mL # 2612-300
V021907

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/18Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/18Feb2014.b
Inst ID: msdv.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08			
FILENAME:	v021806	v021807	v021808	v021809	v021810	v021811	v021812	v021813			
INJ.DATE:	18-FEB-2014	18-FEB-2014	18-FEB-2014	18-FEB-2014	18-FEB-2014	18-FEB-2014	18-FEB-2014	18-FEB-2014			
INJ.TIME:	13:17	14:23	15:02	15:39	16:18	17:05	17:58	18:42			
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL (ppbv)
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Propylene	618.17	532.99	595.62	545.26	648.22	557.52	559.24	573.25	578.78	39.17	117.44	500
4 Dichlorodifluoromethan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Chloromethane	587.84	575.49	553.85	515.12	552.24	600.07	584.09	586.80	569.44	27.57	82.64	500
9 Butane	564.40	555.36	523.09	613.76	501.13	477.08	525.56	561.09	540.18	42.56	127.60	500
10 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
12 Bromomethane	475.03	429.79	538.23	489.15	459.52	468.93	497.42	484.64	480.34	31.36	94.03	500
13 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
16 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Reviewer 1 _____ Date: 2/24/14
Reviewer 2 _____ Date: 2/24/14

$\bar{X} = 0.096$

$2\bar{X} = 0.2$

$3\bar{X} = 0.3$ ppbv

Report Date : 18-Feb-2014 19:41

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/18Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/18Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL(ppbv)
17 Chloroethane	536.54	519.59	588.39	494.73	463.13	524.89	453.44	561.53	517.78	46.23	138.61	500
18 Isopentane	501.30	520.81	520.37	502.99	477.27	475.48	532.62	487.90	502.34	21.19	63.53	500
19 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 Ethanol	506.87	586.83	503.55	461.43	450.96	432.55	500.17	547.38	498.72	51.10	153.18	500
25 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
27 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
30 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
31 Acetone	890.95	922.18	855.69	871.14	871.99	833.41	826.97	835.46	863.47	32.55	97.57	500
32 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 Carbon Disulfide	485.98	468.85	511.74	475.08	458.70	484.51	488.02	466.75	479.95	16.50	49.47	500
34 2-Propanol	395.38	396.55	437.15	391.47	421.83	363.74	386.30	428.55	402.62	24.57	73.66	500
35 3-Chloroprene	380.10	342.92	422.27	394.18	452.83	386.24	348.34	393.02	389.99	36.02	107.98	500
36 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 tert-butyl alcohol	421.46	420.65	455.24	431.06	422.29	436.30	420.78	380.37	423.52	21.08	63.19	500

Report Date : 18-Feb-2014 19:41

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/18Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/18Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL(ppbv)
39 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
40 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 1,1-Dichloroethane	421.26	468.88	456.72	423.25	436.40	384.30	432.28	419.76	430.36	25.59	76.73	500
47 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 2,3-Dimethylpentane	364.92	480.15	396.68	342.20	406.72	313.36	355.29	338.10	374.68	52.45	157.25	500
49 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
50 cis-1,2-Dichloroethene	427.68	411.09	445.68	430.31	421.82	406.89	418.82	413.46	421.97	12.49	37.45	500
51 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Thiophene	390.46	405.67	455.11	451.37	349.91	457.14	379.14	426.34	414.39	39.72	119.08	500
53 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 54 Bromochloromethane	484.21	425.70	480.08	449.99	490.93	424.39	494.79	474.76	465.61	28.45	85.30	500
55 Chloroform	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00	
56 1,1-Dicholoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
58 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
59 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Report Date : 18-Feb-2014 19:41

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/18Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/18Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL (ppbv)
63 2,2,4-Trimethylpentane	463.77	420.28	459.19	439.60	436.20	416.80	444.82	436.34	439.63	16.52	49.52	500
64 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 65 1,2-Dichloroethane-d4	5142.08	5302.42	5251.14	5062.55	5415.19	4962.62	5122.16	5255.15	5189.17	144.50	433.22	
66 tert-amyl methyl ether	422.04	406.31	446.58	435.22	420.50	381.16	376.87	444.41	416.64	26.74	80.16	500
67 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 71 1,4-Difluorobenzene	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00	
72 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
73 Methylcyclohexane	401.74	428.64	383.67	400.74	396.99	390.95	404.64	369.58	397.12	17.16	51.45	500
74 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
79 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 80 Toluene-d8	4830.30	5119.42	4849.77	4867.64	4914.25	4971.43	5044.42	4838.94	4929.52	106.57	319.48	
81 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
83 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
84 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Report Date : 18-Feb-2014 19:41

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/18Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/18Feb2014.b
Inst ID: msdv.i

RL(PPbV)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
86 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 2-Hexanone	375.79	348.92	351.88	342.35	383.06	342.20	356.55	298.69	349.93	25.52	76.50
88 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 1,2-Dibromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 92 Chlorobenzene-d5	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00
93 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 cis-1,4-dichloro-2-but	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 trans-1,4-dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 Bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 106 Bromofluorobenzene	5263.30	5314.97	5001.77	5068.54	5162.36	5181.60	4974.39	5221.97	5148.61	122.95	368.60
107 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

500

Report Date : 18-Feb-2014 19:41

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/18Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/18Feb2014.b
Inst ID: msdv.i

RL(PPBV)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
110 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 alpha-chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 1,2-dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
~~131 1,2,4-Trichlorobenzene~~	~~542.40~~	~~555.89~~	~~618.24~~	~~452.24~~	~~686.85~~	~~551.10~~	~~524.82~~	~~558.22~~	~~561.22~~	~~68.38~~	~~205.00~~ ~~500~~
132 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Naphthalene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

8/20/14 BB

New MDL for Special RL Performed 8/19/14

Report Date : 18-Feb-2014 19:41

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/18Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/18Feb2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
204 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 1-Methoxy-2-Propyl Ace	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 20-Feb-2014 07:48

TO-15 Naphthalene* Low level MDL (0.5ppbv)*

0.5ppbv*(5ppbv)*; load amount: 25mL #2612

MDL Verification: 0.3ppbv*(2.5ppbv)*
load amount: 30mL # 2612-115A
V022007

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/19Feb2014.b
Inst ID: msdv.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	v021911	v021912	v021913	v021914	v021915	v021916	v021917	v021918
INJ.DATE:	19-FEB-2014	19-FEB-2014	19-FEB-2014	19-FEB-2014	19-FEB-2014	19-FEB-2014	19-FEB-2014	20-FEB-2014
INJ.TIME:	19:06	19:56	20:32	21:10	21:46	22:22	22:57	07:08

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Dichlorodifluoromethan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

RL(pptv)

Reviewer 1 _____ Date: 2/24/14
Reviewer 2 _____ Date: 2/24/14

$\bar{x}$ = .168
$2\bar{x}$ = .337

Report Date : 20-Feb-2014 07:48

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/19Feb2014.b
Inst ID: msdv.i

RL (PPbV)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
17 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 3-Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 20-Feb-2014 07:48

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/19Feb2014.b
Inst ID: msdv.i

RL (ppbv)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
39 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 54 Bromochloromethane	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00
55 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 20-Feb-2014 07:48

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/19Feb2014.b
Inst ID: msdv.i

RL (ppbv)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
63 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 65 1,2-Dichloroethane-d4	5253.92	5031.48	5361.68	5186.87	5304.98	5213.97	5126.65	4919.19	5174.84	145.41	435.94
66 tert-amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 71 1,4-Difluorobenzene	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00
72 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 80 Toluene-d8	5053.77	5152.87	4987.31	5112.97	5022.12	4973.61	4955.10	4878.90	5017.08	88.41	265.06
81 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/19Feb2014.b
Inst ID: msdv.i

BL (ppbv)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
86 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 1,2-Dibromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 92 Chlorobenzene-d5	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00
93 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 cis-1,4-dichloro-2-but	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 trans-1,4-dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 Bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 106 Bromofluorobenzene	5397.41	5406.58	5394.35	5348.34	5581.09	5614.98	5499.39	5395.39	5454.69	98.37	294.90
107 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/19Feb2014.b
Inst ID: msdv.i

RL (ppbv)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
110 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 alpha-chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 1,2-dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Naphthalene	674.33	786.97	620.41	758.50	706.04	677.54	639.18	683.18	693.27	56.24	168.61

500

Report Date : 20-Feb-2014 07:48

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Feb2014.b/v1410107a.m
Batch File: /chem/msdv.i/19Feb2014.b
Inst ID: msdv.i

RL (ppt ✓)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
204 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 1-Methoxy-2-Propyl Ace	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 19-Aug-2014 21:27

0.05ppbv (RL)
Low level sp RL for 1,2,4-Trichlorobenzene & Hexachlorobutadiene
0.2ppbv (10ppbv); load amount: 50ml
#2677-112

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v1410814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
FILENAME:	v081907	v081908	v081909	v081910	v081911	v081912	v081913
INJ.DATE:	19-AUG-2014	19-AUG-2014	19-AUG-2014	19-AUG-2014	19-AUG-2014	19-AUG-2014	19-AUG-2014
INJ.TIME:	13:59	14:34	15:10	15:46	16:58	17:34	18:20

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Dichlorodifluoromethan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

MDL Verification:
File: V081919
0.04ppbv (0.05ppbv)

Reviewer 1 _____ Date: 8/19/14
Reviewer 2 _____ Date: 8/20/14

X.033

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v1410814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

RL (0.05ppbv)

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
110 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 alpha-chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 1,2-dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1,2,4-Trichlorobenzene	261.12	245.26	239.66	254.63	251.79	224.28	254.47	247.31	12.31	38.69
132 Hexachlorobutadiene	214.47	224.50	218.12	210.61	211.03	201.42	201.51	211.67	8.40	26.41
133 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v14l0814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
17 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 3-Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v14l0814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
39 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 54 Bromochloromethane	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00
55 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 1,1-Dicholoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v1410814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
	63 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	64 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	65 1,2-Dichloroethane-d4	4783.72	4760.60	4843.58	4920.36	4764.78	4977.41	4854.08	4843.50	82.25	258.52
	66 tert-amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	67 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	68 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	69 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	70 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
*	71 1,4-Difluorobenzene	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00
	72 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	73 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	74 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	79 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	80 Toluene-d8	4896.44	4965.79	4936.81	4939.63	5011.49	4932.28	5022.21	4957.81	45.25	142.21
	81 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	82 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	83 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	84 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	85 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v1410814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
	86 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	87 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	88 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	89 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	90 1,2-Dibromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	91 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
*	92 Chlorobenzene-d5	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	0.00	0.00
	93 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	94 cis-1,4-dichloro-2-but	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	95 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	96 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	97 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	98 trans-1,4-dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	99 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	100 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	101 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	102 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	103 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	104 Bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	105 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	106 Bromofluorobenzene	4760.46	4836.05	4499.36	4921.34	4814.05	4800.97	4641.24	4753.35	140.32	441.03
	107 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	108 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	109 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v14l0814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL	RL (ppbV)	SPRL (pptV)
110 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
111 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
112 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
113 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
114 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
115 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
116 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
117 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
118 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
119 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
120 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
121 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
122 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
123 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
124 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
125 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
126 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
127 alpha-chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
128 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
129 1,2-dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
130 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
131 1,2,4-Trichlorobenzene	261.12	245.26	239.66	254.63	251.79	224.28	254.47	247.31	12.31	38.69	500	50
132 Hexachlorobutadiene	214.47	224.50	218.12	210.61	211.03	201.42	201.51	211.67	8.40	26.41	500	50
133 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdv.i/19Aug2014.b/v1410814b.m
Batch File: /chem/msdv.i/19Aug2014.b
Inst ID: msdv.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
204 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 1-Methoxy-2-Propyl Ace	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1502053AR1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 06:35 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	100
Chloromethane	106
Vinyl Chloride	106
1,3-Butadiene	104
Bromomethane	109
Chloroethane	105
Freon 11	99
Ethanol	124
Freon 113	100
1,1-Dichloroethene	99
Acetone	94
2-Propanol	106
Carbon Disulfide	101
3-Chloropropene	96
Methylene Chloride	100
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	102
Hexane	103
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	98
Tetrahydrofuran	107
Chloroform	100
1,1,1-Trichloroethane	97
Cyclohexane	99
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	104
Benzene	99
1,2-Dichloroethane	101
Heptane	108
Trichloroethene	102
1,2-Dichloropropane	103
1,4-Dioxane	88
Bromodichloromethane	102
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	103
Toluene	101
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	109
Tetrachloroethene	105
2-Hexanone	99

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Client Sample ID: CCV

Lab ID#: 1502053AR1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 06:35 AM**	

Compound	**%Recovery**
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	110
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	104
o-Xylene	108
Styrene	108
Bromoform	110
Cumene	108
1,1,2,2-Tetrachloroethane	102
Propylbenzene	101
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	88
Naphthalene	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 06-FEB-2015 06:35
Lab File ID: v020602.d Init. Cal. Date(s): 23-JAN-2015 27-JAN-2015
Analysis Type: AIR Init. Cal. Times: 16:43 14:21
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdv.i/06Feb2015.b/v15l0123b.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 65 1,2-Dichloroethane-d4	1.56726	1.47797	0.010	5.69727	30.00000	Averaged
$ 80 Toluene-d8	0.93619	0.91942	0.010	1.79107	30.00000	Averaged
$ 106 Bromofluorobenzene	0.46853	0.46318	0.010	1.14043	30.00000	Averaged
3 Propylene	2.04780	2.29670	0.010	-12.15464	30.00000	Averaged
4 Dichlorodifluoromethane/Fr1	3.98600	4.02108	0.010	-0.88014	30.00000	Averaged
6 Freon 114	3.35097	3.36387	0.010	-0.38497	30.00000	Averaged
8 Chloromethane	2.57300	2.72731	0.010	-5.99762	30.00000	Averaged
9 Butane	0.45743	0.47088	0.010	-2.94023	30.00000	Averaged
10 Vinyl Chloride	1.97794	2.09050	0.010	-5.69046	30.00000	Averaged
11 1,3-Butadiene	1.94375	2.02631	0.010	-4.24734	30.00000	Averaged
12 Bromomethane	1.22992	1.34393	0.010	-9.26917	30.00000	Averaged
17 Chloroethane	0.85967	0.90251	0.010	-4.98307	30.00000	Averaged
18 Isopentane	1.89534	2.00357	0.010	-5.71043	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	4.24868	4.19367	0.010	1.29472	30.00000	Averaged
24 Ethanol	0.91355	1.13750	0.010	-24.51425	30.00000	Averaged
30 1,1-Dichloroethene	1.02110	1.01258	0.010	0.83461	30.00000	Averaged
28 Freon 113	3.04095	3.05383	0.010	-0.42363	30.00000	Averaged
31 Acetone	1.15451	1.08878	0.010	5.69394	30.00000	Averaged
33 Carbon Disulfide	4.23572	4.27301	0.010	-0.88042	30.00000	Averaged
35 3-Chloroprene	0.64553	0.61854	0.010	4.18205	30.00000	Averaged
34 2-Propanol	4.56951	4.84053	0.010	-5.93114	30.00000	Averaged
37 Methylene Chloride	1.42565	1.43367	0.010	-0.56240	30.00000	Averaged
38 tert-butyl alcohol	5.13191	4.57454	0.010	10.86087	30.00000	Averaged
39 MTBE	4.45779	4.42076	0.010	0.83070	30.00000	Averaged
40 trans-1,2-Dichloroethene	1.05108	1.06782	0.010	-1.59289	30.00000	Averaged
43 Hexane	4.03177	4.17081	0.010	-3.44860	30.00000	Averaged
45 Isopropyl ether	9.49890	10.49827	0.010	-10.52097	30.00000	Averaged
46 1,1-Dichloroethane	3.73625	3.78617	0.010	-1.33593	30.00000	Averaged
47 Vinyl Acetate	0.37646	0.41534	0.010	-10.32819	30.00000	Averaged
49 Ethyl-tert-butyl ether	7.43221	7.70044	0.010	-3.60905	30.00000	Averaged
50 cis-1,2-Dichloroethene	1.17793	1.15427	0.010	2.00922	30.00000	Averaged
51 2-Butanone	0.78265	0.78041	0.010	0.28676	30.00000	Averaged
53 Tetrahydrofuran	3.41557	3.66267	0.010	-7.23437	30.00000	Averaged
55 Chloroform	3.48327	3.46768	0.010	0.44761	30.00000	Averaged
57 Cyclohexane	2.36717	2.33519	0.010	1.35101	30.00000	Averaged
58 1,1,1-Trichloroethane	3.88096	3.76105	0.010	3.08971	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 06-FEB-2015 06:35
Lab File ID: v020602.d Init. Cal. Date(s): 23-JAN-2015 27-JAN-2015
Analysis Type: AIR Init. Cal. Times: 16:43 14:21
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdv.i/06Feb2015.b/v15l0123b.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
59 Carbon Tetrachloride	3.54249	3.27582	0.010	7.52760	30.00000	Averaged
63 2,2,4-Trimethylpentane	4.27315	4.45065	0.010	-4.15390	30.00000	Averaged
64 Benzene	1.24129	1.22968	0.010	0.93469	30.00000	Averaged
66 tert-amyl methyl ether	0.31896	0.31989	0.010	-0.29102	30.00000	Averaged
68 1,2-Dichloroethane	0.73882	0.74412	0.010	-0.71619	30.00000	Averaged
69 Heptane	0.58770	0.63542	0.010	-8.12083	30.00000	Averaged
72 Trichloroethene	0.63351	0.64627	0.010	-2.01487	30.00000	Averaged
73 Methylcyclohexane	0.77784	0.81806	0.010	-5.17091	30.00000	Averaged
74 1,2-Dichloropropane	0.60919	0.62845	0.010	-3.16060	30.00000	Averaged
75 1,4-Dioxane	0.35475	0.31222	0.010	11.98909	30.00000	Averaged
77 Bromodichloromethane	0.91853	0.93577	0.010	-1.87630	30.00000	Averaged
78 cis-1,3-Dichloropropene	0.76108	0.76632	0.010	-0.68754	30.00000	Averaged
79 4-Methyl-2-pentanone	1.73684	1.78707	0.010	-2.89213	30.00000	Averaged
81 Toluene	1.41441	1.43541	0.010	-1.48507	30.00000	Averaged
82 trans-1,3-Dichloropropene	0.85194	0.90287	0.010	-5.97753	30.00000	Averaged
84 1,1,2-Trichloroethane	0.68055	0.74099	0.010	-8.88131	30.00000	Averaged
86 Tetrachloroethene	1.02445	1.07742	0.010	-5.17015	30.00000	Averaged
87 2-Hexanone	0.88732	0.87778	0.010	1.07412	30.00000	Averaged
89 Dibromochloromethane	1.32312	1.46091	0.010	-10.41403	30.00000	Averaged
90 1,2-Dibromoethane	1.13659	1.24645	0.010	-9.66585	30.00000	Averaged
93 Chlorobenzene	1.56223	1.65876	0.010	-6.17886	30.00000	Averaged
95 Ethyl Benzene	0.73824	0.78866	0.010	-6.83011	30.00000	Averaged
96 m,p-Xylene	0.74563	0.77678	0.010	-4.17818	30.00000	Averaged
100 o-Xylene	0.68546	0.73866	0.010	-7.76037	30.00000	Averaged
101 Styrene	1.02217	1.10860	0.010	-8.45629	30.00000	Averaged
102 Bromoform	1.18371	1.30843	0.010	-10.53621	30.00000	Averaged
103 Cumene	1.93800	2.08457	0.010	-7.56310	30.00000	Averaged
108 1,1,2,2-Tetrachloroethane	1.36276	1.38999	0.010	-1.99851	30.00000	Averaged
111 Propylbenzene	1.80522	1.82099	0.010	-0.87341	30.00000	Averaged
113 4-Ethyltoluene	1.36851	1.42961	0.010	-4.46415	30.00000	Averaged
114 1,3,5-Trimethylbenzene	1.42321	1.47458	0.010	-3.60920	30.00000	Averaged
120 1,2,4-Trimethylbenzene	1.25834	1.30695	0.010	-3.86288	30.00000	Averaged
122 1,3-Dichlorobenzene	0.95117	0.99234	0.010	-4.32756	30.00000	Averaged
124 1,4-Dichlorobenzene	1.00781	0.88214	0.010	12.47002	30.00000	Averaged
127 alpha-chlorotoluene	1.16886	1.31696	0.010	-12.67022	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 06-FEB-2015 06:35
Lab File ID: v020602.d Init. Cal. Date(s): 23-JAN-2015 27-JAN-2015
Analysis Type: AIR Init. Cal. Times: 16:43 14:21
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdv.i/06Feb2015.b/v15l0123b.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
128 1,2-Dichlorobenzene	0.95802	0.91227	0.010	4.77543	30.00000	Averaged
131 1,2,4-Trichlorobenzene	0.86770	0.73137	0.010	15.71195	30.00000	Averaged
132 Hexachlorobutadiene	0.62726	0.54887	0.010	12.49762	30.00000	Averaged
133 Naphthalene	1.30057	1.30039	0.010	0.01402	40.00000	Averaged

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020602.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 06-FEB-2015 06:35
Operator : act Inst ID: msdv.i
Smp Info : 25mL #2687-244
Misc Info : 5.0ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 10-Feb-2015 09:48 atoyama Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.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
* 54 Bromochloromethane						CAS #: 74-97-5	
15.934	15.934 (1.000)	130	211005	5.00000		80.00- 120.00	100.00
15.934	15.934 (1.000)	128	165385			0.00- 30.00	78.38
15.934	15.934 (1.000)	49	477616			0.00- 30.00	226.35
* 71 1,4-Difluorobenzene						CAS #: 540-36-3	
17.305	17.305 (1.000)	114	830109	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	122753			0.00- 30.00	14.79
* 92 Chlorobenzene-d5						CAS #: 3114-55-4	
22.205	22.205 (1.000)	117	628752	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	345154			0.00- 30.00	54.90
$ 65 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.756	16.756 (1.052)	65	311859	5.00000	4.715	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	161484			25.13- 85.13	51.78
$ 80 Toluene-d8						CAS #: 2037-26-5	
19.879	19.879 (1.149)	98	763222	5.00000	4.910	80.00- 120.00	100.00
19.857	19.857 (1.147)	70	81165			0.00- 40.74	10.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 80 Toluene-d8 (continued)							
19.879	19.879 (1.149)	100	492782			36.73- 96.73	64.57
$ 106 Bromofluorobenzene					CAS #: 460-00-4		
23.704	23.704 (1.067)	174	291227	5.00000	4.943	80.00- 120.00	100.00
23.678	23.678 (1.066)	95	366892			95.17- 155.17	125.98
23.704	23.704 (1.067)	176	288059			64.74- 124.74	98.91
3 Propylene					CAS #: 115-07-1		
4.674	4.674 (0.293)	41	484616	5.00000	5.608	80.00- 120.00	100.00
4.636	4.636 (0.291)	42	330057			37.91- 97.91	68.11
4.636	4.636 (0.291)	39	339498			38.58- 98.58	70.06
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.202	5.202 (0.326)	85	848469	5.00000	5.044	80.00- 120.00	100.00
5.202	5.202 (0.326)	87	266353			1.73- 61.73	31.39
6 Freon 114					CAS #: 76-14-2		
6.713	6.713 (0.421)	135	709793	5.00000	5.019	80.00- 120.00	100.00
6.713	6.713 (0.421)	137	229518			2.34- 62.34	32.34
6.713	6.713 (0.421)	85	869803			93.53- 153.53	122.54
8 Chloromethane					CAS #: 74-87-3		
7.053	7.053 (0.443)	50	575477	5.00000	5.300	80.00- 120.00	100.00
7.053	7.053 (0.443)	52	185023			1.57- 61.57	32.15
9 Butane					CAS #: 106-97-8		
7.854	7.854 (0.493)	58	99358	5.00000	5.147	80.00- 120.00	100.00
7.854	7.854 (0.493)	43	947550			879.44- 939.44	953.67
10 Vinyl Chloride					CAS #: 75-01-4		
8.009	8.009 (0.503)	62	441105	5.00000	5.284	80.00- 120.00	100.00
8.009	8.009 (0.503)	64	123509			0.00- 59.13	28.00
11 1,3-Butadiene					CAS #: 106-99-0		
8.257	8.257 (0.518)	54	427562	5.00000	5.212	80.00- 120.00	100.00
8.257	8.257 (0.518)	39	444520			70.79- 130.79	103.97
12 Bromomethane					CAS #: 74-83-9		
9.835	9.835 (0.617)	94	283575	5.00000	5.463	80.00- 120.00	100.00
9.835	9.835 (0.617)	96	259656			64.45- 124.45	91.57
17 Chloroethane					CAS #: 75-00-3		
10.341	10.341 (0.649)	64	190434	5.00000	5.249	80.00- 120.00	100.00
10.341	10.341 (0.649)	66	56456			0.00- 59.36	29.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	422763	5.00000	5.286	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	747456			135.34- 195.34	176.80
10.533	10.533 (0.661)	42	638500			110.64- 170.64	151.03
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.184	11.184 (0.702)	101	884886	5.00000	4.935	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	573585			34.40- 94.40	64.82
24 Ethanol					CAS #: 64-17-5		
12.102	12.102 (0.760)	45	240019	5.00000	6.226	80.00- 120.00	100.00
12.102	12.102 (0.760)	46	83100			9.93- 69.93	34.62
12.102	12.102 (0.760)	43	46788			0.00- 50.31	19.49
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.569	12.569 (0.789)	98	213659	5.00000	4.958	80.00- 120.00	100.00
12.569	12.569 (0.789)	61	751512			316.34- 376.34	351.73
12.569	12.569 (0.789)	96	355010			133.12- 193.12	166.16
28 Freon 113					CAS #: 76-13-1		
12.569	12.569 (0.789)	151	644374	5.00000	5.021	80.00- 120.00	100.00
12.569	12.569 (0.789)	153	415683			33.38- 93.38	64.51
12.569	12.569 (0.789)	101	744119			85.19- 145.19	115.48
31 Acetone					CAS #: 67-64-1		
12.816	12.816 (0.804)	58	229737	5.00000	4.715	80.00- 120.00	100.00
12.816	12.816 (0.804)	43	873330			326.03- 386.03	380.14
33 Carbon Disulfide					CAS #: 75-15-0		
12.926	12.926 (0.811)	76	901627	5.00000	5.044	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.365	13.365 (0.839)	76	130514	5.00000	4.791	80.00- 120.00	100.00
13.365	13.365 (0.839)	41	715652			456.88- 516.88	548.33
34 2-Propanol					CAS #: 67-63-0		
13.173	13.173 (0.827)	45	1021377	5.00000	5.296	80.00- 120.00	100.00
13.173	13.173 (0.827)	43	182717			0.00- 47.97	17.89
13.173	13.173 (0.827)	59	32122			0.00- 33.25	3.14
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	302511	5.00000	5.028	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	751828			198.57- 258.57	248.53
13.640	13.640 (0.856)	51	219625			41.48- 101.48	72.60
38 tert-butyl alcohol					CAS #: 75-65-0		
13.859	13.859 (0.870)	59	965251	5.00000	4.457	80.00- 120.00	100.00

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

   38 tert-butyl alcohol (continued)
 13.859  13.859 (0.870)    41    240230                     0.00-  53.29    24.89
 13.859  13.859 (0.870)    57    105839                     0.00-  40.72    10.96
-------------------------------------------------------------------------------
   39 MTBE                                          CAS #: 1634-04-4
 13.997  13.997 (0.878)    73    932803 5.00000    4.958  80.00- 120.00   100.00
 13.997  13.997 (0.878)    57    349465                     6.35-  66.35    37.46
 13.997  13.997 (0.878)    41    366278                     5.74-  65.74    39.27
-------------------------------------------------------------------------------
   40 trans-1,2-Dichloroethene                      CAS #: 156-60-5
 14.052  14.052 (0.882)    98    225315 5.00000    5.080  80.00- 120.00   100.00
 14.052  14.052 (0.882)    61    706053                   272.66- 332.66   313.36
 14.052  14.052 (0.882)    96    357613                   128.53- 188.53   158.72
-------------------------------------------------------------------------------
   43 Hexane                                        CAS #: 110-54-3
 14.381  14.381 (0.903)    57    880061 5.00000    5.172  80.00- 120.00   100.00
 14.381  14.381 (0.903)    43    661592                    41.32- 101.32    75.18
 14.381  14.381 (0.903)    86     82498                     0.00-  40.13     9.37
-------------------------------------------------------------------------------
   45 Isopropyl ether                               CAS #: 108-20-3
 14.738  14.738 (0.925)    45   2215188 5.00000    5.526  80.00- 120.00   100.00
 14.738  14.738 (0.925)    87    313424                     0.00-  45.33    14.15
 14.738  14.738 (0.925)    59    195386                     0.00-  39.01     8.82
-------------------------------------------------------------------------------
   46 1,1-Dichloroethane                            CAS #: 75-34-3
 14.765  14.765 (0.927)    63    798900 5.00000    5.067  80.00- 120.00   100.00
 14.765  14.765 (0.927)    65    237256                     0.00-  59.80    29.70
-------------------------------------------------------------------------------
   47 Vinyl Acetate                                 CAS #: 108-05-4
 14.793  14.793 (0.928)    86     87639 5.00000    5.516  80.00- 120.00   100.00
 14.793  14.793 (0.928)    42    205476                   166.91- 226.91   234.46
 14.793  14.793 (0.928)    43   2593990                  2680.08-2740.08  2959.86
-------------------------------------------------------------------------------
   49 Ethyl-tert-butyl ether                        CAS #: 637-92-3
 15.240  15.240 (0.956)    59   1624831 5.00000    5.180  80.00- 120.00   100.00
 15.240  15.240 (0.956)    87    465183                     0.00-  59.23    28.63
 15.240  15.240 (0.956)    41    349997                     0.00-  49.94    21.54
-------------------------------------------------------------------------------
   50 cis-1,2-Dichloroethene                        CAS #: 156-59-2
 15.592  15.592 (0.979)    98    243556 5.00000    4.900  80.00- 120.00   100.00
 15.592  15.592 (0.979)    61    685899                   242.79- 302.79   281.62
 15.592  15.592 (0.979)    96    388450                   127.33- 187.33   159.49
-------------------------------------------------------------------------------
   51 2-Butanone                                    CAS #: 78-93-3
 15.572  15.572 (0.977)    72    164670 5.00000    4.986  80.00- 120.00   100.00
 15.572  15.572 (0.977)    43   1263034                   687.17- 747.17   767.01
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   51 2-Butanone (continued)
 15.592  15.592 (0.979)    57     83189                    23.39-  83.39    50.52
-------------------------------------------------------------------------------
   53 Tetrahydrofuran                                CAS #: 109-99-9
 15.934  15.934 (1.000)    42    772841 5.00000    5.362  80.00- 120.00   100.00
 15.934  15.934 (1.000)    71    149260                     0.00-  51.83    19.31
 15.934  15.934 (1.000)    72    164717                     0.00-  54.16    21.31
-------------------------------------------------------------------------------
   55 Chloroform                                     CAS #: 67-66-3
 15.995  15.995 (1.004)    83    731698 5.00000    4.978  80.00- 120.00   100.00
 15.995  15.995 (1.004)    85    477716                    35.10-  95.10    65.29
-------------------------------------------------------------------------------
   57 Cyclohexane                                    CAS #: 110-82-7
 16.242  16.242 (1.019)    84    492737 5.00000    4.932  80.00- 120.00   100.00
 16.242  16.242 (1.019)    56    976732                   160.85- 220.85   198.23
 16.242  16.242 (1.019)    41    571198                    75.49- 135.49   115.92
-------------------------------------------------------------------------------
   58 1,1,1-Trichloroethane                          CAS #: 71-55-6
 16.242  16.242 (1.019)    97    793601 5.00000    4.846  80.00- 120.00   100.00
 16.242  16.242 (1.019)    99    509908                    33.24-  93.24    64.25
-------------------------------------------------------------------------------
   59 Carbon Tetrachloride                           CAS #: 56-23-5
 16.458  16.458 (1.033)   119    691215 5.00000    4.624  80.00- 120.00   100.00
 16.458  16.458 (1.033)   117    694508                    67.96- 127.96   100.48
                   Sum of Peak Amounts =            4.62
-------------------------------------------------------------------------------
   63 2,2,4-Trimethylpentane                         CAS #: 540-84-1
 16.728  16.728 (1.050)    56    939110 5.00000    5.208  80.00- 120.00   100.00
 16.728  16.728 (1.050)    57   2766285                   274.66- 334.66   294.56
 16.728  16.728 (1.050)    41    808307                    54.64- 114.64    86.07
-------------------------------------------------------------------------------
   64 Benzene                                        CAS #: 71-43-2
 16.756  16.756 (0.968)    78   1020772 5.00000    4.953  80.00- 120.00   100.00
 16.756  16.756 (0.968)    77    231958                     0.00-  53.39    22.72
-------------------------------------------------------------------------------
   66 tert-amyl methyl ether                         CAS #: 994-05-8
 16.811  16.811 (0.971)    87    265545 5.00000    5.014  80.00- 120.00   100.00
 16.811  16.811 (0.971)    73   1081240                   366.24- 426.24   407.18
 16.811  16.811 (0.971)    55    458264                   130.44- 190.44   172.57
-------------------------------------------------------------------------------
   68 1,2-Dichloroethane                             CAS #: 107-06-2
 16.866  16.866 (0.975)    62    617697 5.00000    5.036  80.00- 120.00   100.00
 16.866  16.866 (0.975)    64    185571                     0.00-  59.72    30.04
-------------------------------------------------------------------------------
   69 Heptane                                        CAS #: 142-82-5
 16.975  16.975 (0.981)    57    527471 5.00000    5.406  80.00- 120.00   100.00
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
69 Heptane (continued)							
16.975	16.975 (0.981)	100	113878			0.00- 51.16	21.59
16.975	16.975 (0.981)	43	1149911			180.62- 240.62	218.00
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	536475	5.00000	5.101	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	503958			62.98- 122.98	93.94
17.717	17.717 (1.024)	97	329612			29.44- 89.44	61.44
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	679081	5.00000	5.258	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	321317			16.83- 76.83	47.32
17.964	17.964 (1.038)	55	869665			97.27- 157.27	128.06
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	521680	5.00000	5.158	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	378982			43.06- 103.06	72.65
18.156	18.156 (1.049)	41	366775			36.58- 96.58	70.31
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	259173	5.00000	4.400	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	276415			74.73- 134.73	106.65
18.266	18.266 (1.056)	57	91275			4.83- 64.83	35.22
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	776788	5.00000	5.094	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	495727			33.73- 93.73	63.82
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	636127	5.00000	5.034	80.00- 120.00	100.00
19.386	19.386 (1.120)	77	208045			0.66- 60.66	32.70
19.386	19.386 (1.120)	39	524710			43.67- 103.67	82.49
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.588	19.588 (1.132)	43	1483464	5.00000	5.145	80.00- 120.00	100.00
19.588	19.588 (1.132)	58	471896			3.17- 63.17	31.81
19.588	19.588 (1.132)	85	136057			0.00- 40.09	9.17
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	1191550	5.00000	5.074	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	715171			28.34- 88.34	60.02
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	567679	5.00000	5.299	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	182751			1.98- 61.98	32.19
20.435	20.435 (0.920)	39	445002			41.22- 101.22	78.39

AMOUNTS

RT	EXP RT (REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
84 1,1,2-Trichloroethane					CAS #: 79-00-5		
20.758	20.758 (0.935)	97	465899	5.00000	5.444	80.00- 120.00	100.00
20.758	20.758 (0.935)	99	294758			31.80- 91.80	63.27
20.758	20.758 (0.935)	83	395970			51.12- 111.12	84.99
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	677427	5.00000	5.258	80.00- 120.00	100.00
20.901	20.901 (0.941)	129	512615			46.61- 106.61	75.67
20.901	20.901 (0.941)	131	518917			46.38- 106.38	76.60
87 2-Hexanone					CAS #: 591-78-6		
21.045	21.045 (0.948)	58	551909	5.00000	4.946	80.00- 120.00	100.00
21.045	21.045 (0.948)	43	1263998			184.27- 244.27	229.02
21.045	21.045 (0.948)	100	77175			0.00- 44.17	13.98
89 Dibromochloromethane					CAS #: 124-48-1		
21.368	21.368 (0.962)	129	918551	5.00000	5.521	80.00- 120.00	100.00
21.368	21.368 (0.962)	127	713589			48.71- 108.71	77.69
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.583	21.583 (0.972)	107	783708	5.00000	5.483	80.00- 120.00	100.00
21.583	21.583 (0.972)	109	731219			63.80- 123.80	93.30
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	1042947	5.00000	5.309	80.00- 120.00	100.00
22.233	22.233 (1.001)	114	337443			1.75- 61.75	32.35
22.233	22.233 (1.001)	77	563371			24.73- 84.73	54.02
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	495873	5.00000	5.342	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	1413429			260.31- 320.31	285.04
96 m,p-Xylene					CAS #: 108-38-3		
22.480	22.480 (1.012)	106	488404	5.00000	5.209	80.00- 120.00	100.00
22.480	22.480 (1.012)	91	924293			157.23- 217.23	189.25
100 o-Xylene					CAS #: 95-47-6		
23.002	23.002 (1.036)	106	464431	5.00000	5.388	80.00- 120.00	100.00
23.002	23.002 (1.036)	91	919086			167.76- 227.76	197.90
101 Styrene					CAS #: 100-42-5		
23.029	23.029 (1.037)	104	697036	5.00000	5.423	80.00- 120.00	100.00
23.029	23.029 (1.037)	78	332113			17.96- 77.96	47.65
102 Bromoform					CAS #: 75-25-2		
23.331	23.331 (1.051)	173	822677	5.00000	5.527	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
102 Bromoform (continued)							
23.331	23.331 (1.051)	171	412676			22.04- 82.04	50.16
103 Cumene					CAS #: 98-82-8		
23.441	23.441 (1.056)	105	1310680	5.00000	5.378	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	391597			0.00- 59.93	29.88
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	873959	5.00000	5.100	80.00- 120.00	100.00
23.833	23.833 (1.073)	85	554443			34.94- 94.94	63.44
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	1144950	5.00000	5.044	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	311190			0.00- 56.93	27.18
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	898868	5.00000	5.223	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	307430			3.10- 63.10	34.20
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	927145	5.00000	5.180	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	476446			0.00- 30.00	51.39
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	821749	5.00000	5.193	80.00- 120.00	100.00
24.529	24.529 (1.105)	120	415527			0.00- 30.00	50.57
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	623933	5.00000	5.216	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	389986			32.42- 92.42	62.50
24.902	24.902 (1.121)	111	241584			8.90- 68.90	38.72
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	554647	5.00000	4.376	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	354950			34.01- 94.01	64.00
24.992	24.992 (1.125)	111	209984			8.58- 68.58	37.86
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.127	25.127 (1.132)	91	828039	5.00000	5.634	80.00- 120.00	100.00
25.127	25.127 (1.132)	126	191000			0.00- 54.03	23.07
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	573591	5.00000	4.761	80.00- 120.00	100.00
25.396	25.396 (1.144)	148	364946			32.53- 92.53	63.62
25.396	25.396 (1.144)	111	239545			10.66- 70.66	41.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	459850	5.00000	4.214	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	444846			66.06- 126.06	96.74
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.167	27.167 (1.223)	225	345101	5.00000	4.375	80.00- 120.00	100.00
27.167	27.167 (1.223)	223	217828			32.60- 92.60	63.12
133 Naphthalene					CAS #: 91-20-3		
27.368	27.368 (1.232)	128	81762	0.50000	0.4999	80.00- 120.00	100.00
27.368	27.368 (1.232)	127	12200			0.00- 44.62	14.92

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020602.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: act
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 5.0ppbv (50ppbv)

Calibration Date: 09-FEB-2015
Calibration Time: 20:25
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	178694	107216	250172	211005	18.08
71 1,4-Difluorobenze	755900	453540	1058260	830109	9.82
92 Chlorobenzene-d5	675500	405300	945700	628752	-6.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF	
54 Bromochloromethan	16.87	16.54	17.20	15.93	-5.54	<-
71 1,4-Difluorobenze	18.37	18.04	18.70	17.30	-5.79	<-
92 Chlorobenzene-d5	23.91	23.58	24.24	22.21	-7.15	<-

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/msdv.i/06Feb2015.b/v020602.d

Date : 06-FEB-2015 06:35

Client ID: CCV

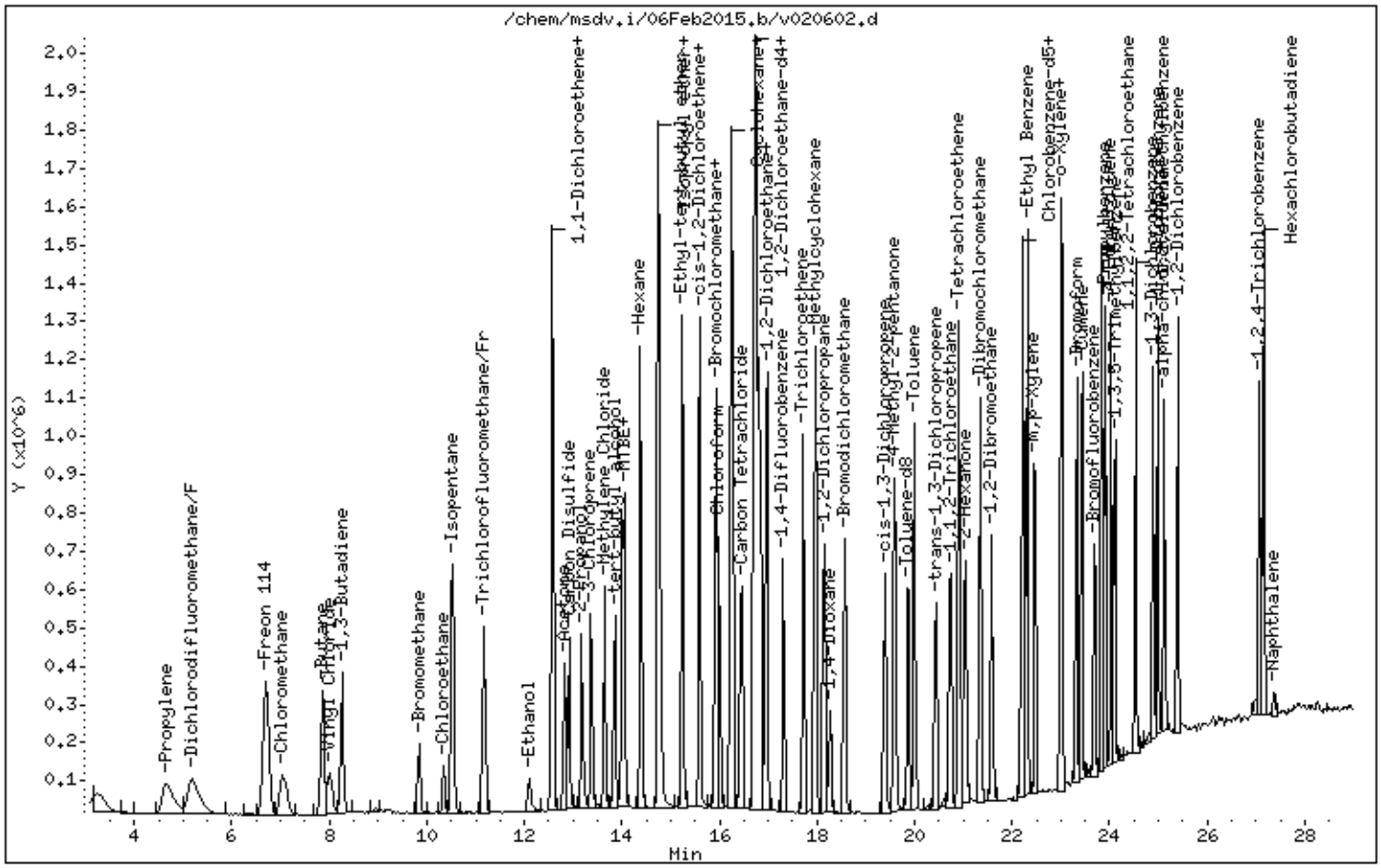
Instrument: msdv.i

Sample Info: 25mL #2687-244

Operator: act

Column phase: RTx-624

Column diameter: 0.32



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Client Sample ID: LCS

Lab ID#: 1502053AR1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 07:18 AM**	

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	97	70-130
Chloromethane	100	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	98	70-130
Bromomethane	102	70-130
Chloroethane	100	70-130
Freon 11	95	70-130
Ethanol	126	70-130
Freon 113	92	70-130
1,1-Dichloroethene	96	70-130
Acetone	89	70-130
2-Propanol	106	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	90	70-130
Methylene Chloride	93	70-130
Methyl tert-butyl ether	93	70-130
trans-1,2-Dichloroethene	84	70-130
Hexane	96	70-130
1,1-Dichloroethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	99	70-130
Tetrahydrofuran	99	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	88	70-130
Cyclohexane	93	70-130
Carbon Tetrachloride	90	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	93	70-130
1,2-Dichloroethane	95	70-130
Heptane	103	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	99	70-130
1,4-Dioxane	86	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	100	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	96	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	98	70-130
2-Hexanone	96	70-130

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Client Sample ID: LCS

Lab ID#: 1502053AR1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 07:18 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	96	70-130
o-Xylene	100	70-130
Styrene	101	70-130
Bromoform	103	70-130
Cumene	97	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	96	70-130
1,3-Dichlorobenzene	97	70-130
1,4-Dichlorobenzene	81	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	89	70-130
1,2,4-Trichlorobenzene	90	70-130
Hexachlorobutadiene	89	70-130
Naphthalene	88	60-140

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

Report Date: 06-Feb-2015 08:33

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 06Feb2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: act
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 5.0ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	5.000	4.862	97.25	70-130
3 Propylene	5.000	5.318	106.37	60-140
6 Freon 114	5.000	4.874	97.49	70-130
8 Chloromethane	5.000	4.990	99.81	70-130
10 Vinyl Chloride	5.000	5.080	101.59	70-130
11 1,3-Butadiene	5.000	4.891	97.81	70-130
12 Bromomethane	5.000	5.092	101.83	70-130
17 Chloroethane	5.000	5.027	100.54	70-130
20 Trichlorofluoromet	5.000	4.738	94.75	70-130
24 Ethanol	5.000	6.328	126.56	70-130
28 Freon 113	5.000	4.612	92.24	70-130
30 1,1-Dichloroethene	5.000	4.828	96.55	70-130
31 Acetone	5.000	4.467	89.34	70-130
33 Carbon Disulfide	5.000	4.181	83.62	70-130
34 2-Propanol	5.000	5.300	106.00	70-130
35 3-Chloroprene	5.000	4.501	90.02	70-130
37 Methylene Chloride	5.000	4.648	92.96	70-130
39 MTBE	5.000	4.672	93.44	70-130
40 trans-1,2-Dichloro	5.000	4.226	84.53	70-130
43 Hexane	5.000	4.820	96.41	70-130
46 1,1-Dichloroethane	5.000	4.760	95.19	70-130
47 Vinyl Acetate	5.000	5.043	100.87	60-140
50 cis-1,2-Dichloroet	5.000	4.972	99.43	70-130
51 2-Butanone	5.000	4.830	96.59	70-130
53 Tetrahydrofuran	5.000	4.960	99.20	70-130
55 Chloroform	5.000	4.682	93.63	70-130
57 Cyclohexane	5.000	4.660	93.19	70-130
58 1,1,1-Trichloroeth	5.000	4.419	88.38	70-130
59 Carbon Tetrachlori	5.000	4.515	90.30	70-130
63 2,2,4-Trimethylpen	5.000	4.784	95.68	70-130
64 Benzene	5.000	4.640	92.80	70-130
69 Heptane	5.000	5.140	102.81	70-130
68 1,2-Dichloroethane	5.000	4.743	94.87	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
72 Trichloroethene	5.000	4.929	98.58	70-130
74 1,2-Dichloropropan	5.000	4.965	99.31	70-130
75 1,4-Dioxane	5.000	4.284	85.68	70-130
77 Bromodichlorometha	5.000	4.936	98.71	70-130
78 cis-1,3-Dichloropr	5.000	4.520	90.39	70-130
79 4-Methyl-2-pentano	5.000	4.992	99.84	70-130
81 Toluene	5.000	4.778	95.55	70-130
82 trans-1,3-Dichloro	5.000	4.805	96.09	70-130
84 1,1,2-Trichloroeth	5.000	5.104	102.08	70-130
87 2-Hexanone	5.000	4.822	96.45	70-130
86 Tetrachloroethene	5.000	4.892	97.84	70-130
89 Dibromochlorometha	5.000	5.078	101.56	70-130
90 1,2-Dibromoethane	5.000	5.022	100.43	70-130
93 Chlorobenzene	5.000	4.793	95.86	70-130
95 Ethyl Benzene	5.000	4.773	95.45	70-130
96 m,p-Xylene	5.000	4.796	95.93	70-130
100 o-Xylene	5.000	4.978	99.57	70-130
101 Styrene	5.000	5.063	101.26	70-130
102 Bromoform	5.000	5.143	102.86	70-130
103 Cumene	5.000	4.867	97.34	70-130
108 1,1,2,2-Tetrachlor	5.000	4.683	93.66	70-130
111 Propylbenzene	5.000	4.830	96.61	70-130
113 4-Ethyltoluene	5.000	4.912	98.24	70-130
114 1,3,5-Trimethylben	5.000	4.761	95.21	70-130
120 1,2,4-Trimethylben	5.000	4.818	96.35	70-130
122 1,3-Dichlorobenzen	5.000	4.834	96.69	70-130
124 1,4-Dichlorobenzen	5.000	4.038	80.76	70-130
127 alpha-chlorotoluen	5.000	5.255	105.09	70-130
128 1,2-Dichlorobenzen	5.000	4.439	88.78	70-130
131 1,2,4-Trichloroben	5.000	4.493	89.85	70-130
132 Hexachlorobutadien	5.000	4.451	89.03	70-130
133 Naphthalene	0.5000	0.4412	88.24	60-140
18 Isopentane	5.000	5.080	101.61	60-140
9 Butane	5.000	4.968	99.36	60-140
73 Methylcyclohexane	5.000	4.899	97.99	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	4.769	95.38	70-130
$ 80 Toluene-d8	5.000	5.014	100.28	70-130
$ 106 Bromofluorobenzene	5.000	4.754	95.08	70-130

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020603.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 06-FEB-2015 07:18
Operator : act Inst ID: msdv.i
Smp Info : 25mL #2687-186; LCS; LCS
Misc Info : 5.0ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 06-Feb-2015 07:16 atoyama Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.933	15.934 (1.000)	130	204477	5.00000		80.00- 120.00	100.00
15.933	15.934 (1.000)	128	156818			0.00- 30.00	76.69
15.933	15.934 (1.000)	49	456759			0.00- 30.00	223.38
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	802446	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	126078			0.00- 30.00	15.71
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	621201	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	350443			0.00- 30.00	56.41
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.756	16.756 (1.052)	65	305677	4.76922	4.769	80.00- 120.00	100.00
16.756	16.756 (1.052)	67	157877			25.13- 85.13	51.65
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.879	19.879 (1.149)	98	753332	5.01390	5.014	80.00- 120.00	100.00
19.856	19.857 (1.147)	70	82120			0.00- 40.74	10.90

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

$  80 Toluene-d8 (continued)
 19.879  19.879 (1.149)   100    480918                    36.73-  96.73    63.84
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.704  23.704 (1.067)   174    276741 4.75420    4.754  80.00- 120.00   100.00
 23.678  23.678 (1.066)    95    345758                    95.17- 155.17   124.94
 23.704  23.704 (1.067)   176    261962                    64.74- 124.74    94.66
-------------------------------------------------------------------------------
    3 Propylene                                     CAS #: 115-07-1
  4.673   4.674 (0.293)    41    445407 5.31857    5.318  80.00- 120.00   100.00
  4.673   4.636 (0.293)    42    295680                    37.91-  97.91    66.38
  4.673   4.636 (0.293)    39    293222                    38.58-  98.58    65.83
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.202   5.202 (0.326)    85    792616 4.86240    4.862  80.00- 120.00   100.00
  5.202   5.202 (0.326)    87    246341                     1.73-  61.73    31.08
-------------------------------------------------------------------------------
    6 Freon 114                                     CAS #: 76-14-2
  6.713   6.713 (0.421)   135    667971 4.87431    4.874  80.00- 120.00   100.00
  6.713   6.713 (0.421)   137    215487                     2.34-  62.34    32.26
  6.713   6.713 (0.421)    85    769365                    93.53- 153.53   115.18
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.052   7.053 (0.443)    50    525097 4.99029    4.990  80.00- 120.00   100.00
  7.052   7.053 (0.443)    52    165615                     1.57-  61.57    31.54
-------------------------------------------------------------------------------
    9 Butane                                        CAS #: 106-97-8
  7.854   7.854 (0.493)    58     92938 4.96814    4.968  80.00- 120.00   100.00
  7.854   7.854 (0.493)    43    882523                   879.44- 939.44   949.58
-------------------------------------------------------------------------------
   10 Vinyl Chloride                                CAS #: 75-01-4
  8.009   8.009 (0.503)    62    410889 5.07968    5.080  80.00- 120.00   100.00
  8.009   8.009 (0.503)    64    117705                     0.00-  59.13    28.65
-------------------------------------------------------------------------------
   11 1,3-Butadiene                                 CAS #: 106-99-0
  8.257   8.257 (0.518)    54    388761 4.89065    4.891  80.00- 120.00   100.00
  8.257   8.257 (0.518)    39    408703                    70.79- 130.79   105.13
-------------------------------------------------------------------------------
   12 Bromomethane                                  CAS #: 74-83-9
  9.834   9.835 (0.617)    94    256105 5.09174    5.092  80.00- 120.00   100.00
  9.834   9.835 (0.617)    96    243502                    64.45- 124.45    95.08
-------------------------------------------------------------------------------
   17 Chloroethane                                  CAS #: 75-00-3
 10.340  10.341 (0.649)    64    176733 5.02702    5.027  80.00- 120.00   100.00
 10.340  10.341 (0.649)    66     54085                     0.00-  59.36    30.60
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RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	393783	5.08038	5.080	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	674076			135.34- 195.34	171.18
10.533	10.533 (0.661)	42	596169			110.64- 170.64	151.40
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.184	11.184 (0.702)	101	823183	4.73770	4.738	80.00- 120.00	100.00
11.184	11.184 (0.702)	103	528435			34.40- 94.40	64.19
24 Ethanol					CAS #: 64-17-5		
12.101	12.102 (0.760)	45	236420	6.32814	6.328	80.00- 120.00	100.00
12.101	12.102 (0.760)	46	88475			9.93- 69.93	37.42
12.101	12.102 (0.760)	43	38100			0.00- 50.31	16.12
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.568	12.569 (0.789)	98	201594	4.82764	4.828	80.00- 120.00	100.00
12.568	12.569 (0.789)	61	682239			316.34- 376.34	338.42
12.568	12.569 (0.789)	96	315979			133.12- 193.12	156.74
28 Freon 113					CAS #: 76-13-1		
12.568	12.569 (0.789)	151	573538	4.61188	4.612	80.00- 120.00	100.00
12.568	12.569 (0.789)	153	369089			33.38- 93.38	64.35
12.568	12.569 (0.789)	101	652072			85.19- 145.19	113.69
31 Acetone					CAS #: 67-64-1		
12.816	12.816 (0.804)	58	210917	4.46723	4.467	80.00- 120.00	100.00
12.816	12.816 (0.804)	43	796487			326.03- 386.03	377.63
33 Carbon Disulfide					CAS #: 75-15-0		
12.925	12.926 (0.811)	76	724269	4.18117	4.181	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.365	13.365 (0.839)	76	118817	4.50077	4.501	80.00- 120.00	100.00
13.365	13.365 (0.839)	41	627065			456.88- 516.88	527.76
34 2-Propanol					CAS #: 67-63-0		
13.173	13.173 (0.827)	45	990416	5.29997	5.300	80.00- 120.00	100.00
13.173	13.173 (0.827)	43	184021			0.00- 47.97	18.58
13.173	13.173 (0.827)	59	31355			0.00- 33.25	3.17
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	270984	4.64790	4.648	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	675730			198.57- 258.57	249.36
13.640	13.640 (0.856)	51	209209			41.48- 101.48	77.20
39 MTBE					CAS #: 1634-04-4		
13.997	13.997 (0.878)	73	851753	4.67218	4.672	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
39 MTBE (continued)							
13.997	13.997 (0.878)	57	321197			6.35- 66.35	37.71
13.997	13.997 (0.878)	41	334474			5.74- 65.74	39.27
40 trans-1,2-Dichloroethene					CAS #: 156-60-5		
14.051	14.052 (0.882)	98	181676	4.22658	4.226	80.00- 120.00	100.00
14.051	14.052 (0.882)	61	560514			272.66- 332.66	308.52
14.051	14.052 (0.882)	96	287904			128.53- 188.53	158.47
43 Hexane					CAS #: 110-54-3		
14.381	14.381 (0.903)	57	794774	4.82030	4.820	80.00- 120.00	100.00
14.381	14.381 (0.903)	43	601642			41.32- 101.32	75.70
14.381	14.381 (0.903)	86	75743			0.00- 40.13	9.53
46 1,1-Dichloroethane					CAS #: 75-34-3		
14.765	14.765 (0.927)	63	727238	4.75955	4.760	80.00- 120.00	100.00
14.765	14.765 (0.927)	65	220842			0.00- 59.80	30.37
47 Vinyl Acetate					CAS #: 108-05-4		
14.793	14.793 (0.928)	86	77644	5.04331	5.043	80.00- 120.00	100.00
14.793	14.793 (0.928)	42	123585			166.91- 226.91	159.17
14.793	14.793 (0.928)	43	1549342			2680.08-2740.08	1995.44
50 cis-1,2-Dichloroethene					CAS #: 156-59-2		
15.592	15.592 (0.979)	98	239488	4.97151	4.972	80.00- 120.00	100.00
15.592	15.592 (0.979)	61	688026			242.79- 302.79	287.29
15.592	15.592 (0.979)	96	389794			127.33- 187.33	162.76
51 2-Butanone					CAS #: 78-93-3		
15.592	15.572 (0.979)	72	154581	4.82962	4.830	80.00- 120.00	100.00
15.592	15.572 (0.979)	43	1118603			687.17- 747.17	723.64
15.592	15.592 (0.979)	57	76764			23.39- 83.39	49.66
53 Tetrahydrofuran					CAS #: 109-99-9		
15.933	15.934 (1.000)	42	692837	4.96013	4.960	80.00- 120.00	100.00
15.933	15.934 (1.000)	71	133814			0.00- 51.83	19.31
15.933	15.934 (1.000)	72	151717			0.00- 54.16	21.90
55 Chloroform					CAS #: 67-66-3		
15.995	15.995 (1.004)	83	666895	4.68161	4.682	80.00- 120.00	100.00
15.995	15.995 (1.004)	85	430285			35.10- 95.10	64.52
57 Cyclohexane					CAS #: 110-82-7		
16.273	16.242 (1.021)	84	451074	4.65955	4.660	80.00- 120.00	100.00
16.242	16.242 (1.019)	56	883715			160.85- 220.85	195.91
16.242	16.242 (1.019)	41	525564			75.49- 135.49	116.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
58 1,1,1-Trichloroethane					CAS #: 71-55-6		
16.242	16.242 (1.019)	97	701317	4.41876	4.419	80.00- 120.00	100.00
16.242	16.242 (1.019)	99	449811			33.24- 93.24	64.14
59 Carbon Tetrachloride					CAS #: 56-23-5		
16.457	16.458 (1.033)	119	654096	4.51501	4.515	80.00- 120.00	100.00
16.457	16.458 (1.033)	117	637412			67.96- 127.96	97.45
	Sum of Peak Concentrations =				4.515		
63 2,2,4-Trimethylpentane					CAS #: 540-84-1		
16.728	16.728 (1.050)	56	835974	4.78377	4.784	80.00- 120.00	100.00
16.728	16.728 (1.050)	57	2556349			274.66- 334.66	305.79
16.728	16.728 (1.050)	41	695695			54.64- 114.64	83.22
64 Benzene					CAS #: 71-43-2		
16.756	16.756 (0.968)	78	924380	4.64016	4.640	80.00- 120.00	100.00
16.756	16.756 (0.968)	77	213308			0.00- 53.39	23.08
68 1,2-Dichloroethane					CAS #: 107-06-2		
16.865	16.866 (0.975)	62	562436	4.74336	4.743	80.00- 120.00	100.00
16.865	16.866 (0.975)	64	172463			0.00- 59.72	30.66
69 Heptane					CAS #: 142-82-5		
16.975	16.975 (0.981)	57	484849	5.14051	5.140	80.00- 120.00	100.00
16.975	16.975 (0.981)	100	102844			0.00- 51.16	21.21
16.975	16.975 (0.981)	43	1083381			180.62- 240.62	223.45
72 Trichloroethene					CAS #: 79-01-6		
17.717	17.717 (1.024)	130	501146	4.92910	4.929	80.00- 120.00	100.00
17.717	17.717 (1.024)	95	461993			62.98- 122.98	92.19
17.717	17.717 (1.024)	97	300004			29.44- 89.44	59.86
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	611616	4.89939	4.899	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	285590			16.83- 76.83	46.69
17.964	17.964 (1.038)	55	801533			97.27- 157.27	131.05
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	485468	4.96546	4.965	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	352606			43.06- 103.06	72.63
18.156	18.156 (1.049)	41	345485			36.58- 96.58	71.17
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	243908	4.28412	4.284	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	262313			74.73- 134.73	107.55
18.266	18.266 (1.056)	57	90958			4.83- 64.83	37.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	727584	4.93564	4.936	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	454795			33.73- 93.73	62.51
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	552042	4.51953	4.520	80.00- 120.00	100.00
19.408	19.386 (1.122)	77	171446			0.66- 60.66	31.06
19.386	19.386 (1.120)	39	438454			43.67- 103.67	79.42
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.587	19.588 (1.132)	43	1391534	4.99216	4.992	80.00- 120.00	100.00
19.587	19.588 (1.132)	58	439366			3.17- 63.17	31.57
19.587	19.588 (1.132)	85	126693			0.00- 40.09	9.10
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	1084530	4.77772	4.778	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	633380			28.34- 88.34	58.40
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.435	20.435 (0.920)	75	508558	4.80473	4.805	80.00- 120.00	100.00
20.435	20.435 (0.920)	77	164865			1.98- 61.98	32.42
20.435	20.435 (0.920)	39	400329			41.22- 101.22	78.72
84 1,1,2-Trichloroethane					CAS #: 79-00-5		
20.757	20.758 (0.935)	97	431540	5.10387	5.104	80.00- 120.00	100.00
20.757	20.758 (0.935)	99	262277			31.80- 91.80	60.78
20.757	20.758 (0.935)	83	357378			51.12- 111.12	82.81
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	622618	4.89180	4.892	80.00- 120.00	100.00
20.901	20.901 (0.941)	129	474457			46.61- 106.61	76.20
20.901	20.901 (0.941)	131	476259			46.38- 106.38	76.49
87 2-Hexanone					CAS #: 591-78-6		
21.044	21.045 (0.948)	58	531614	4.82232	4.822	80.00- 120.00	100.00
21.044	21.045 (0.948)	43	1216960			184.27- 244.27	228.92
21.044	21.045 (0.948)	100	70783			0.00- 44.17	13.31
89 Dibromochloromethane					CAS #: 124-48-1		
21.367	21.368 (0.962)	129	834778	5.07819	5.078	80.00- 120.00	100.00
21.367	21.368 (0.962)	127	652644			48.71- 108.71	78.18
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.583	21.583 (0.972)	107	709092	5.02154	5.022	80.00- 120.00	100.00
21.583	21.583 (0.972)	109	670067			63.80- 123.80	94.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	930314	4.79317	4.793	80.00- 120.00	100.00
22.233	22.233 (1.001)	114	300734			1.75- 61.75	32.33
22.233	22.233 (1.001)	77	583457			24.73- 84.73	62.72
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	437741	4.77263	4.773	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	1293870			260.31- 320.31	295.58
96 m,p-Xylene					CAS #: 108-38-3		
22.480	22.480 (1.012)	106	444316	4.79630	4.796	80.00- 120.00	100.00
22.480	22.480 (1.012)	91	827890			157.23- 217.23	186.33
100 o-Xylene					CAS #: 95-47-6		
23.001	23.002 (1.036)	106	423976	4.97848	4.978	80.00- 120.00	100.00
23.001	23.002 (1.036)	91	848008			167.76- 227.76	200.01
101 Styrene					CAS #: 100-42-5		
23.029	23.029 (1.037)	104	642963	5.06294	5.063	80.00- 120.00	100.00
23.029	23.029 (1.037)	78	303406			17.96- 77.96	47.19
102 Bromoform					CAS #: 75-25-2		
23.331	23.331 (1.051)	173	756318	5.14277	5.143	80.00- 120.00	100.00
23.331	23.331 (1.051)	171	382778			22.04- 82.04	50.61
103 Cumene					CAS #: 98-82-8		
23.441	23.441 (1.056)	105	1171843	4.86691	4.867	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	357012			0.00- 59.93	30.47
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.833	23.833 (1.073)	83	792841	4.68281	4.683	80.00- 120.00	100.00
23.833	23.833 (1.073)	85	510345			34.94- 94.94	64.37
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	1083412	4.83060	4.830	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	289586			0.00- 56.93	26.73
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	835145	4.91191	4.912	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	280478			3.10- 63.10	33.58
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	841775	4.76062	4.761	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	430447			0.00- 30.00	51.14
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	753158	4.81753	4.818	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
120 1,2,4-Trimethylbenzene (continued)							
24.529	24.529 (1.105)	120	378685			0.00- 30.00	50.28
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	571308	4.83447	4.834	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	358992			32.42- 92.42	62.84
24.902	24.902 (1.121)	111	227693			8.90- 68.90	39.85
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	505616	4.03811	4.038	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	314677			34.01- 94.01	62.24
24.992	24.992 (1.125)	111	183100			8.58- 68.58	36.21
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.127	25.127 (1.132)	91	763082	5.25469	5.255	80.00- 120.00	100.00
25.127	25.127 (1.132)	126	177651			0.00- 54.03	23.28
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.396	25.396 (1.144)	146	528349	4.43900	4.439	80.00- 120.00	100.00
25.396	25.396 (1.144)	148	346134			32.53- 92.53	65.51
25.396	25.396 (1.144)	111	215444			10.66- 70.66	40.78
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	484329	4.49270	4.493	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	449002			66.06- 126.06	92.71
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.166	27.167 (1.223)	225	346895	4.45132	4.451	80.00- 120.00	100.00
27.166	27.167 (1.223)	223	219410			32.60- 92.60	63.25
133 Naphthalene					CAS #: 91-20-3		
27.368	27.368 (1.232)	128	71292	0.44121	0.4412	80.00- 120.00	100.00
27.368	27.368 (1.232)	127	8319			0.00- 44.62	11.67

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020603.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: act
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 5.0ppbv (50ppbv)

Calibration Date: 06-FEB-2015
Calibration Time: 06:35
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	204477	-3.09
71 1,4-Difluorobenze	830109	498065	1162153	802446	-3.33
92 Chlorobenzene-d5	628752	377251	880253	621201	-1.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/06Feb2015.b/v020603.d

Date : 06-FEB-2015 07:18

Client ID: LCS

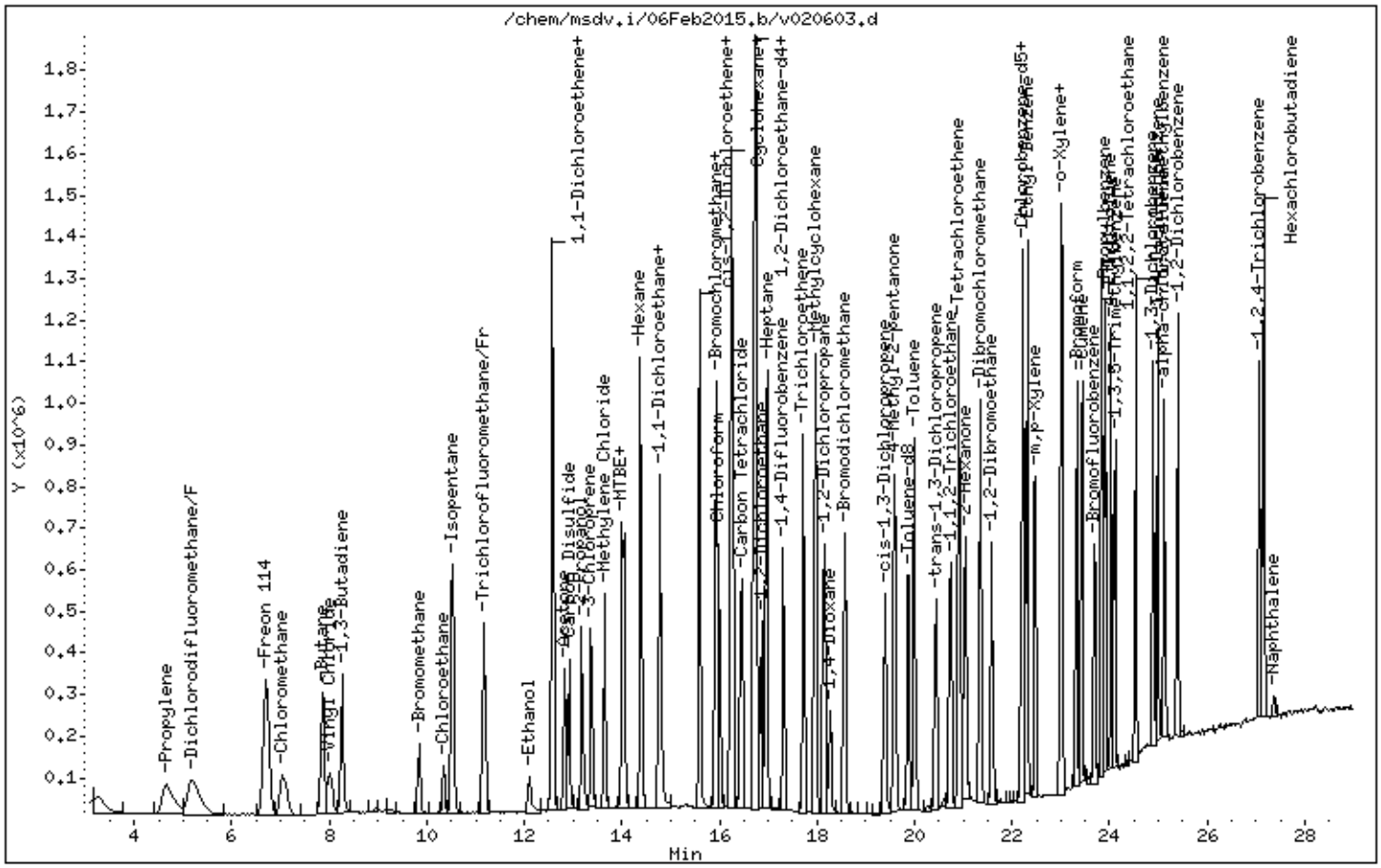
Instrument: msdv.i

Sample Info: 25mL #2687-186; LCS; LCS

Operator: act

Column phase: RTx-624

Column diameter: 0.32



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Client Sample ID: LCSD

Lab ID#: 1502053AR1-08AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 07:54 AM**	

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	101	70-130
Chloromethane	102	70-130
Vinyl Chloride	103	70-130
1,3-Butadiene	98	70-130
Bromomethane	101	70-130
Chloroethane	105	70-130
Freon 11	96	70-130
Ethanol	126	70-130
Freon 113	95	70-130
1,1-Dichloroethene	100	70-130
Acetone	93	70-130
2-Propanol	106	70-130
Carbon Disulfide	86	70-130
3-Chloropropene	86	70-130
Methylene Chloride	95	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	88	70-130
Hexane	99	70-130
1,1-Dichloroethane	97	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
cis-1,2-Dichloroethene	102	70-130
Tetrahydrofuran	102	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	92	70-130
1,2-Dichloroethane	95	70-130
Heptane	101	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	99	70-130
1,4-Dioxane	83	70-130
Bromodichloromethane	96	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	99	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	96	70-130
2-Hexanone	98	70-130

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Client Sample ID: LCSD

Lab ID#: 1502053AR1-08AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v020604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/6/15 07:54 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	96	70-130
o-Xylene	99	70-130
Styrene	99	70-130
Bromoform	98	70-130
Cumene	96	70-130
1,1,2,2-Tetrachloroethane	95	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	95	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	83	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	89	70-130
1,2,4-Trichlorobenzene	88	70-130
Hexachlorobutadiene	86	70-130
Naphthalene	87	60-140

Container Type: NA - Not Applicable

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

Report Date: 06-Feb-2015 08:33

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 06Feb2015
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: act
Data Type: MS DATA
SampleType: LCSD
SpikeList File: AT12.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 5.0ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	5.000	4.876	97.52	70-130
3 Propylene	5.000	5.173	103.47	60-140
6 Freon 114	5.000	5.069	101.38	70-130
8 Chloromethane	5.000	5.108	102.15	70-130
10 Vinyl Chloride	5.000	5.146	102.92	70-130
11 1,3-Butadiene	5.000	4.921	98.42	70-130
12 Bromomethane	5.000	5.073	101.45	70-130
17 Chloroethane	5.000	5.255	105.11	70-130
20 Trichlorofluoromet	5.000	4.804	96.09	70-130
24 Ethanol	5.000	6.322	126.43	70-130
28 Freon 113	5.000	4.736	94.73	70-130
30 1,1-Dichloroethene	5.000	5.027	100.55	70-130
31 Acetone	5.000	4.640	92.80	70-130
33 Carbon Disulfide	5.000	4.303	86.06	70-130
34 2-Propanol	5.000	5.299	105.97	70-130
35 3-Chloroprene	5.000	4.314	86.27	70-130
37 Methylene Chloride	5.000	4.732	94.65	70-130
39 MTBE	5.000	4.785	95.69	70-130
40 trans-1,2-Dichloro	5.000	4.400	88.00	70-130
43 Hexane	5.000	4.950	99.01	70-130
46 1,1-Dichloroethane	5.000	4.842	96.83	70-130
47 Vinyl Acetate	5.000	4.997	99.94	60-140
50 cis-1,2-Dichloroet	5.000	5.103	102.05	70-130
51 2-Butanone	5.000	4.540	90.80	70-130
53 Tetrahydrofuran	5.000	5.099	101.97	70-130
55 Chloroform	5.000	4.736	94.72	70-130
57 Cyclohexane	5.000	4.782	95.64	70-130
58 1,1,1-Trichloroeth	5.000	4.599	91.98	70-130
59 Carbon Tetrachlori	5.000	4.598	91.97	70-130
63 2,2,4-Trimethylpen	5.000	4.801	96.02	70-130
64 Benzene	5.000	4.620	92.40	70-130
69 Heptane	5.000	5.055	101.10	70-130
68 1,2-Dichloroethane	5.000	4.751	95.02	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
72 Trichloroethene	5.000	4.853	97.07	70-130
74 1,2-Dichloropropan	5.000	4.954	99.08	70-130
75 1,4-Dioxane	5.000	4.141	82.81	70-130
77 Bromodichlorometha	5.000	4.815	96.30	70-130
78 cis-1,3-Dichloropr	5.000	4.492	89.84	70-130
79 4-Methyl-2-pentano	5.000	4.967	99.34	70-130
81 Toluene	5.000	4.799	95.98	70-130
82 trans-1,3-Dichloro	5.000	4.703	94.06	70-130
84 1,1,2-Trichloroeth	5.000	5.008	100.16	70-130
87 2-Hexanone	5.000	4.905	98.10	70-130
86 Tetrachloroethene	5.000	4.828	96.55	70-130
89 Dibromochlorometha	5.000	4.926	98.52	70-130
90 1,2-Dibromoethane	5.000	5.008	100.17	70-130
93 Chlorobenzene	5.000	4.762	95.25	70-130
95 Ethyl Benzene	5.000	4.680	93.59	70-130
96 m,p-Xylene	5.000	4.794	95.88	70-130
100 o-Xylene	5.000	4.971	99.42	70-130
101 Styrene	5.000	4.948	98.96	70-130
102 Bromoform	5.000	4.926	98.53	70-130
103 Cumene	5.000	4.803	96.06	70-130
108 1,1,2,2-Tetrachlor	5.000	4.740	94.80	70-130
111 Propylbenzene	5.000	4.700	93.99	70-130
113 4-Ethyltoluene	5.000	4.752	95.05	70-130
114 1,3,5-Trimethylben	5.000	4.731	94.63	70-130
120 1,2,4-Trimethylben	5.000	4.832	96.63	70-130
122 1,3-Dichlorobenzen	5.000	4.929	98.58	70-130
124 1,4-Dichlorobenzen	5.000	4.158	83.15	70-130
127 alpha-chlorotoluen	5.000	5.241	104.83	70-130
128 1,2-Dichlorobenzen	5.000	4.452	89.04	70-130
131 1,2,4-Trichloroben	5.000	4.415	88.29	70-130
132 Hexachlorobutadien	5.000	4.293	85.86	70-130
133 Naphthalene	0.5000	0.4372	87.44	60-140
18 Isopentane	5.000	5.072	101.43	60-140
9 Butane	5.000	5.215	104.30	60-140
73 Methylcyclohexane	5.000	4.731	94.62	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 65 1,2-Dichloroethane	5.000	4.847	96.94	70-130
$ 80 Toluene-d8	5.000	4.982	99.65	70-130
$ 106 Bromofluorobenzene	5.000	4.866	97.31	70-130

Eurofins Air Toxics Inc.

TO15/Modified TO-14A

Data file : /chem/msdv.i/06Feb2015.b/v020604.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 06-FEB-2015 07:54
Operator : act Inst ID: msdv.i
Smp Info : 25mL #2687-186
Misc Info : 5.0ppbv (50ppbv)
Comment : Low Level GC-MS
Method : /chem/msdv.i/06Feb2015.b/v15l0123b.m
Meth Date : 06-Feb-2015 07:16 atoyama Quant Type: ISTD
Cal Date : 27-JAN-2015 14:21 Cal File: v012709.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.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
* 54 Bromochloromethane					CAS #: 74-97-5		
15.933	15.934 (1.000)	130	199785	5.00000		80.00- 120.00	100.00
15.933	15.934 (1.000)	128	158578			0.00- 30.00	79.37
15.933	15.934 (1.000)	49	458484			0.00- 30.00	229.49
* 71 1,4-Difluorobenzene					CAS #: 540-36-3		
17.305	17.305 (1.000)	114	798604	5.00000		80.00- 120.00	100.00
17.305	17.305 (1.000)	88	121996			0.00- 30.00	15.28
* 92 Chlorobenzene-d5					CAS #: 3114-55-4		
22.205	22.205 (1.000)	117	627568	5.00000		80.00- 120.00	100.00
22.205	22.205 (1.000)	82	342022			0.00- 30.00	54.50
$ 65 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.755	16.756 (1.052)	65	303526	4.84687	4.847	80.00- 120.00	100.00
16.755	16.756 (1.052)	67	156509			25.13- 85.13	51.56
$ 80 Toluene-d8					CAS #: 2037-26-5		
19.856	19.879 (1.147)	98	744995	4.98227	4.982	80.00- 120.00	100.00
19.879	19.857 (1.149)	70	80218			0.00- 40.74	10.77

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

$  80 Toluene-d8 (continued)
 19.856  19.879 (1.147)   100    474465                    36.73-  96.73    63.69
-------------------------------------------------------------------------------
$ 106 Bromofluorobenzene                            CAS #: 460-00-4
 23.703  23.704 (1.067)   174    286129 4.86562    4.866  80.00- 120.00   100.00
 23.678  23.678 (1.066)    95    361565                    95.17- 155.17   126.36
 23.703  23.704 (1.067)   176    272323                    64.74- 124.74    95.17
-------------------------------------------------------------------------------
    3 Propylene                                     CAS #: 115-07-1
  4.636   4.674 (0.291)    41    423307 5.17339    5.173  80.00- 120.00   100.00
  4.673   4.636 (0.293)    42    285597                    37.91-  97.91    67.47
  4.673   4.636 (0.293)    39    293551                    38.58-  98.58    69.35
-------------------------------------------------------------------------------
    4 Dichlorodifluoromethane/Fr12                  CAS #: 75-71-8
  5.202   5.202 (0.326)    85    776615 4.87612    4.876  80.00- 120.00   100.00
  5.202   5.202 (0.326)    87    247920                     1.73-  61.73    31.92
-------------------------------------------------------------------------------
    6 Freon 114                                     CAS #: 76-14-2
  6.713   6.713 (0.421)   135    678696 5.06888    5.069  80.00- 120.00   100.00
  6.713   6.713 (0.421)   137    217528                     2.34-  62.34    32.05
  6.713   6.713 (0.421)    85    774779                    93.53- 153.53   114.16
-------------------------------------------------------------------------------
    8 Chloromethane                                 CAS #: 74-87-3
  7.052   7.053 (0.443)    50    525124 5.10774    5.108  80.00- 120.00   100.00
  7.052   7.053 (0.443)    52    163755                     1.57-  61.57    31.18
-------------------------------------------------------------------------------
    9 Butane                                        CAS #: 106-97-8
  7.853   7.854 (0.493)    58     95315 5.21488    5.215  80.00- 120.00   100.00
  7.853   7.854 (0.493)    43    875136                   879.44- 939.44   918.15
-------------------------------------------------------------------------------
   10 Vinyl Chloride                                CAS #: 75-01-4
  8.008   8.009 (0.503)    62    406691 5.14586    5.146  80.00- 120.00   100.00
  8.008   8.009 (0.503)    64    121620                     0.00-  59.13    29.90
-------------------------------------------------------------------------------
   11 1,3-Butadiene                                 CAS #: 106-99-0
  8.257   8.257 (0.518)    54    382180 4.92078    4.921  80.00- 120.00   100.00
  8.257   8.257 (0.518)    39    406619                    70.79- 130.79   106.39
-------------------------------------------------------------------------------
   12 Bromomethane                                  CAS #: 74-83-9
  9.834   9.835 (0.617)    94    249291 5.07267    5.073  80.00- 120.00   100.00
  9.834   9.835 (0.617)    96    234400                    64.45- 124.45    94.03
-------------------------------------------------------------------------------
   17 Chloroethane                                  CAS #: 75-00-3
 10.340  10.341 (0.649)    64    180520 5.25532    5.255  80.00- 120.00   100.00
 10.340  10.341 (0.649)    66     51809                     0.00-  59.36    28.70
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
18 Isopentane					CAS #: 78-78-4		
10.533	10.533 (0.661)	57	384091	5.07171	5.072	80.00- 120.00	100.00
10.533	10.533 (0.661)	43	680623			135.34- 195.34	177.20
10.533	10.533 (0.661)	42	583278			110.64- 170.64	151.86
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
11.183	11.184 (0.702)	101	815627	4.80445	4.804	80.00- 120.00	100.00
11.183	11.184 (0.702)	103	532974			34.40- 94.40	65.35
24 Ethanol					CAS #: 64-17-5		
12.101	12.102 (0.759)	45	230756	6.32161	6.322	80.00- 120.00	100.00
12.101	12.102 (0.759)	46	78340			9.93- 69.93	33.95
12.101	12.102 (0.759)	43	39311			0.00- 50.31	17.04
30 1,1-Dichloroethene					CAS #: 75-35-4		
12.568	12.569 (0.789)	98	205121	5.02747	5.027	80.00- 120.00	100.00
12.568	12.569 (0.789)	61	694416			316.34- 376.34	338.54
12.568	12.569 (0.789)	96	317065			133.12- 193.12	154.57
28 Freon 113					CAS #: 76-13-1		
12.568	12.569 (0.789)	151	575498	4.73632	4.736	80.00- 120.00	100.00
12.568	12.569 (0.789)	153	364155			33.38- 93.38	63.28
12.568	12.569 (0.789)	101	665342			85.19- 145.19	115.61
31 Acetone					CAS #: 67-64-1		
12.816	12.816 (0.804)	58	214051	4.64010	4.640	80.00- 120.00	100.00
12.816	12.816 (0.804)	43	798751			326.03- 386.03	373.16
33 Carbon Disulfide					CAS #: 75-15-0		
12.925	12.926 (0.811)	76	728254	4.30291	4.303	80.00- 120.00	100.00
35 3-Chloroprene					CAS #: 107-05-1		
13.365	13.365 (0.839)	76	111266	4.31373	4.314	80.00- 120.00	100.00
13.365	13.365 (0.839)	41	627268			456.88- 516.88	563.75
34 2-Propanol					CAS #: 67-63-0		
13.173	13.173 (0.827)	45	967464	5.29873	5.299	80.00- 120.00	100.00
13.173	13.173 (0.827)	43	161069			0.00- 47.97	16.65
13.173	13.173 (0.827)	59	29073			0.00- 33.25	3.01
37 Methylene Chloride					CAS #: 75-09-2		
13.640	13.640 (0.856)	84	269587	4.73253	4.732	80.00- 120.00	100.00
13.640	13.640 (0.856)	49	663061			198.57- 258.57	245.95
13.640	13.640 (0.856)	51	204264			41.48- 101.48	75.77
39 MTBE					CAS #: 1634-04-4		
13.996	13.997 (0.878)	73	852251	4.78469	4.785	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
39 MTBE (continued)							
13.996	13.997 (0.878)	57	324442			6.35- 66.35	38.07
13.996	13.997 (0.878)	41	332127			5.74- 65.74	38.97
40 trans-1,2-Dichloroethene					CAS #: 156-60-5		
14.051	14.052 (0.882)	98	184787	4.39993	4.400	80.00- 120.00	100.00
14.051	14.052 (0.882)	61	555724			272.66- 332.66	300.74
14.051	14.052 (0.882)	96	280397			128.53- 188.53	151.74
43 Hexane					CAS #: 110-54-3		
14.381	14.381 (0.903)	57	797492	4.95037	4.950	80.00- 120.00	100.00
14.381	14.381 (0.903)	43	602526			41.32- 101.32	75.55
14.381	14.381 (0.903)	86	79843			0.00- 40.13	10.01
46 1,1-Dichloroethane					CAS #: 75-34-3		
14.765	14.765 (0.927)	63	722817	4.84171	4.842	80.00- 120.00	100.00
14.765	14.765 (0.927)	65	212402			0.00- 59.80	29.39
47 Vinyl Acetate					CAS #: 108-05-4		
14.793	14.793 (0.928)	86	75165	4.99694	4.997	80.00- 120.00	100.00
14.793	14.793 (0.928)	42	108569			166.91- 226.91	144.44
14.793	14.793 (0.928)	43	1446831			2680.08-2740.08	1924.87
50 cis-1,2-Dichloroethene					CAS #: 156-59-2		
15.592	15.592 (0.979)	98	240168	5.10273	5.103	80.00- 120.00	100.00
15.592	15.592 (0.979)	61	685833			242.79- 302.79	285.56
15.592	15.592 (0.979)	96	379805			127.33- 187.33	158.14
51 2-Butanone					CAS #: 78-93-3		
15.592	15.572 (0.979)	72	141979	4.54009	4.540	80.00- 120.00	100.00
15.571	15.572 (0.977)	43	1122747			687.17- 747.17	790.78
15.571	15.592 (0.977)	57	75341			23.39- 83.39	53.06
53 Tetrahydrofuran					CAS #: 109-99-9		
15.933	15.934 (1.000)	42	695857	5.09875	5.099	80.00- 120.00	100.00
15.933	15.934 (1.000)	71	136780			0.00- 51.83	19.66
15.933	15.934 (1.000)	72	153484			0.00- 54.16	22.06
55 Chloroform					CAS #: 67-66-3		
15.995	15.995 (1.004)	83	659194	4.73623	4.736	80.00- 120.00	100.00
15.995	15.995 (1.004)	85	423640			35.10- 95.10	64.27
57 Cyclohexane					CAS #: 110-82-7		
16.242	16.242 (1.019)	84	452288	4.78181	4.782	80.00- 120.00	100.00
16.242	16.242 (1.019)	56	892676			160.85- 220.85	197.37
16.242	16.242 (1.019)	41	535046			75.49- 135.49	118.30

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
58 1,1,1-Trichloroethane					CAS #: 71-55-6		
16.242	16.242 (1.019)	97	713209	4.59922	4.599	80.00- 120.00	100.00
16.242	16.242 (1.019)	99	458853			33.24- 93.24	64.34
59 Carbon Tetrachloride					CAS #: 56-23-5		
16.457	16.458 (1.033)	119	650877	4.59830	4.598	80.00- 120.00	100.00
16.457	16.458 (1.033)	117	628712			67.96- 127.96	96.59
	Sum of Peak Concentrations =				4.598		
63 2,2,4-Trimethylpentane					CAS #: 540-84-1		
16.728	16.728 (1.050)	56	819760	4.80115	4.801	80.00- 120.00	100.00
16.728	16.728 (1.050)	57	2511937			274.66- 334.66	306.42
16.728	16.728 (1.050)	41	687092			54.64- 114.64	83.82
64 Benzene					CAS #: 71-43-2		
16.755	16.756 (0.968)	78	915916	4.61979	4.620	80.00- 120.00	100.00
16.755	16.756 (0.968)	77	216824			0.00- 53.39	23.67
68 1,2-Dichloroethane					CAS #: 107-06-2		
16.865	16.866 (0.975)	62	560655	4.75109	4.751	80.00- 120.00	100.00
16.865	16.866 (0.975)	64	167999			0.00- 59.72	29.96
69 Heptane					CAS #: 142-82-5		
16.975	16.975 (0.981)	57	474518	5.05519	5.055	80.00- 120.00	100.00
16.975	16.975 (0.981)	100	101016			0.00- 51.16	21.29
16.948	16.975 (0.979)	43	1062608			180.62- 240.62	223.93
72 Trichloroethene					CAS #: 79-01-6		
17.716	17.717 (1.024)	130	491080	4.85333	4.853	80.00- 120.00	100.00
17.716	17.717 (1.024)	95	461199			62.98- 122.98	93.92
17.716	17.717 (1.024)	97	296344			29.44- 89.44	60.35
73 Methylcyclohexane					CAS #: 108-87-2		
17.964	17.964 (1.038)	83	587795	4.73123	4.731	80.00- 120.00	100.00
17.964	17.964 (1.038)	98	278685			16.83- 76.83	47.41
17.964	17.964 (1.038)	55	795775			97.27- 157.27	135.38
74 1,2-Dichloropropane					CAS #: 78-87-5		
18.156	18.156 (1.049)	63	482006	4.95377	4.954	80.00- 120.00	100.00
18.156	18.156 (1.049)	62	353165			43.06- 103.06	73.27
18.156	18.156 (1.049)	41	341737			36.58- 96.58	70.90
75 1,4-Dioxane					CAS #: 123-91-1		
18.266	18.266 (1.056)	88	234612	4.14068	4.141	80.00- 120.00	100.00
18.266	18.266 (1.056)	58	259616			74.73- 134.73	110.66
18.266	18.266 (1.056)	57	85291			4.83- 64.83	36.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
77 Bromodichloromethane					CAS #: 75-27-4		
18.568	18.568 (1.073)	83	706407	4.81504	4.815	80.00- 120.00	100.00
18.568	18.568 (1.073)	85	463824			33.73- 93.73	65.66
78 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
19.386	19.386 (1.120)	75	546059	4.49206	4.492	80.00- 120.00	100.00
19.386	19.386 (1.120)	77	171453			0.66- 60.66	31.40
19.386	19.386 (1.120)	39	449232			43.67- 103.67	82.27
79 4-Methyl-2-pentanone					CAS #: 108-10-1		
19.587	19.588 (1.132)	43	1377932	4.96714	4.967	80.00- 120.00	100.00
19.587	19.588 (1.132)	58	435096			3.17- 63.17	31.58
19.587	19.588 (1.132)	85	124058			0.00- 40.09	9.00
81 Toluene					CAS #: 108-88-3		
19.991	19.991 (1.155)	91	1084149	4.79902	4.799	80.00- 120.00	100.00
19.991	19.991 (1.155)	92	626259			28.34- 88.34	57.77
82 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
20.434	20.435 (0.920)	75	502873	4.70282	4.703	80.00- 120.00	100.00
20.434	20.435 (0.920)	77	167146			1.98- 61.98	33.24
20.434	20.435 (0.920)	39	393224			41.22- 101.22	78.20
84 1,1,2-Trichloroethane					CAS #: 79-00-5		
20.757	20.758 (0.935)	97	427771	5.00797	5.008	80.00- 120.00	100.00
20.757	20.758 (0.935)	99	264365			31.80- 91.80	61.80
20.757	20.758 (0.935)	83	351401			51.12- 111.12	82.15
86 Tetrachloroethene					CAS #: 127-18-4		
20.901	20.901 (0.941)	166	620752	4.82766	4.828	80.00- 120.00	100.00
20.901	20.901 (0.941)	129	479281			46.61- 106.61	77.21
20.901	20.901 (0.941)	131	488261			46.38- 106.38	78.66
87 2-Hexanone					CAS #: 591-78-6		
21.044	21.045 (0.948)	58	546248	4.90480	4.905	80.00- 120.00	100.00
21.044	21.045 (0.948)	43	1221215			184.27- 244.27	223.56
21.044	21.045 (0.948)	100	72591			0.00- 44.17	13.29
89 Dibromochloromethane					CAS #: 124-48-1		
21.367	21.368 (0.962)	129	818054	4.92597	4.926	80.00- 120.00	100.00
21.367	21.368 (0.962)	127	634113			48.71- 108.71	77.51
90 1,2-Dibromoethane					CAS #: 106-93-4		
21.582	21.583 (0.972)	107	714510	5.00857	5.008	80.00- 120.00	100.00
21.582	21.583 (0.972)	109	664066			63.80- 123.80	92.94

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
93 Chlorobenzene					CAS #: 108-90-7		
22.233	22.233 (1.001)	112	933850	4.76257	4.762	80.00- 120.00	100.00
22.233	22.233 (1.001)	114	297905			1.75- 61.75	31.90
22.233	22.233 (1.001)	77	521658			24.73- 84.73	55.86
95 Ethyl Benzene					CAS #: 100-41-4		
22.315	22.315 (1.005)	106	433601	4.67953	4.680	80.00- 120.00	100.00
22.315	22.315 (1.005)	91	1289202			260.31- 320.31	297.32
96 m,p-Xylene					CAS #: 108-38-3		
22.480	22.480 (1.012)	106	448638	4.79382	4.794	80.00- 120.00	100.00
22.480	22.480 (1.012)	91	818413			157.23- 217.23	182.42
100 o-Xylene					CAS #: 95-47-6		
23.001	23.002 (1.036)	106	427693	4.97117	4.971	80.00- 120.00	100.00
23.001	23.002 (1.036)	91	858978			167.76- 227.76	200.84
101 Styrene					CAS #: 100-42-5		
23.029	23.029 (1.037)	104	634795	4.94791	4.948	80.00- 120.00	100.00
23.029	23.029 (1.037)	78	308027			17.96- 77.96	48.52
102 Bromoform					CAS #: 75-25-2		
23.331	23.331 (1.051)	173	731915	4.92634	4.926	80.00- 120.00	100.00
23.331	23.331 (1.051)	171	381638			22.04- 82.04	52.14
103 Cumene					CAS #: 98-82-8		
23.441	23.441 (1.056)	105	1168319	4.80304	4.803	80.00- 120.00	100.00
23.441	23.441 (1.056)	120	352476			0.00- 59.93	30.17
108 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.832	23.833 (1.073)	83	810754	4.74002	4.740	80.00- 120.00	100.00
23.832	23.833 (1.073)	85	521351			34.94- 94.94	64.30
111 Propylbenzene					CAS #: 103-65-1		
23.910	23.910 (1.077)	91	1064858	4.69970	4.700	80.00- 120.00	100.00
23.910	23.910 (1.077)	120	288762			0.00- 56.93	27.12
113 4-Ethyltoluene					CAS #: 622-96-8		
24.039	24.039 (1.083)	105	816289	4.75230	4.752	80.00- 120.00	100.00
24.039	24.039 (1.083)	120	273676			3.10- 63.10	33.53
114 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
24.116	24.116 (1.086)	105	845189	4.73144	4.731	80.00- 120.00	100.00
24.116	24.116 (1.086)	120	436885			0.00- 30.00	51.69
120 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.529	24.529 (1.105)	105	763091	4.83154	4.832	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
120 1,2,4-Trimethylbenzene (continued)							
24.529	24.529 (1.105)	120	383229			0.00- 30.00	50.22
122 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.902	24.902 (1.121)	146	588475	4.92921	4.929	80.00- 120.00	100.00
24.902	24.902 (1.121)	148	363042			32.42- 92.42	61.69
24.902	24.902 (1.121)	111	223573			8.90- 68.90	37.99
124 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.992	24.992 (1.125)	146	525915	4.15761	4.158	80.00- 120.00	100.00
24.992	24.992 (1.125)	148	332904			34.01- 94.01	63.30
24.992	24.992 (1.125)	111	196372			8.58- 68.58	37.34
127 alpha-chlorotoluene					CAS #: 100-44-7		
25.126	25.127 (1.132)	91	768953	5.24140	5.241	80.00- 120.00	100.00
25.126	25.127 (1.132)	126	183114			0.00- 54.03	23.81
128 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.395	25.396 (1.144)	146	535312	4.45187	4.452	80.00- 120.00	100.00
25.395	25.396 (1.144)	148	337708			32.53- 92.53	63.09
25.395	25.396 (1.144)	111	219173			10.66- 70.66	40.94
131 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
27.077	27.077 (1.219)	180	480790	4.41463	4.415	80.00- 120.00	100.00
27.077	27.077 (1.219)	182	450689			66.06- 126.06	93.74
132 Hexachlorobutadiene					CAS #: 87-68-3		
27.166	27.167 (1.223)	225	338003	4.29323	4.293	80.00- 120.00	100.00
27.166	27.167 (1.223)	223	211999			32.60- 92.60	62.72
133 Naphthalene					CAS #: 91-20-3		
27.368	27.368 (1.232)	128	71365	0.43718	0.4372	80.00- 120.00	100.00
27.368	27.368 (1.232)	127	14435			0.00- 44.62	20.23

Report Date: 06-Feb-2015 08:33

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v020604.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: act
Method File: /chem/msdv.i/06Feb2015.b/v15l0123b.m
Misc Info: 5.0ppbv (50ppbv)

Calibration Date: 06-FEB-2015
Calibration Time: 06:35
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	211005	126603	295407	199785	-5.32
71 1,4-Difluorobenze	830109	498065	1162153	798604	-3.80
92 Chlorobenzene-d5	628752	377251	880253	627568	-0.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
54 Bromochloromethan	15.93	15.60	16.26	15.93	0.00
71 1,4-Difluorobenze	17.30	16.97	17.63	17.30	0.00
92 Chlorobenzene-d5	22.21	21.88	22.54	22.21	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/msdv.i/06Feb2015.b/v020604.d

Date : 06-FEB-2015 07:54

Client ID: LCSD

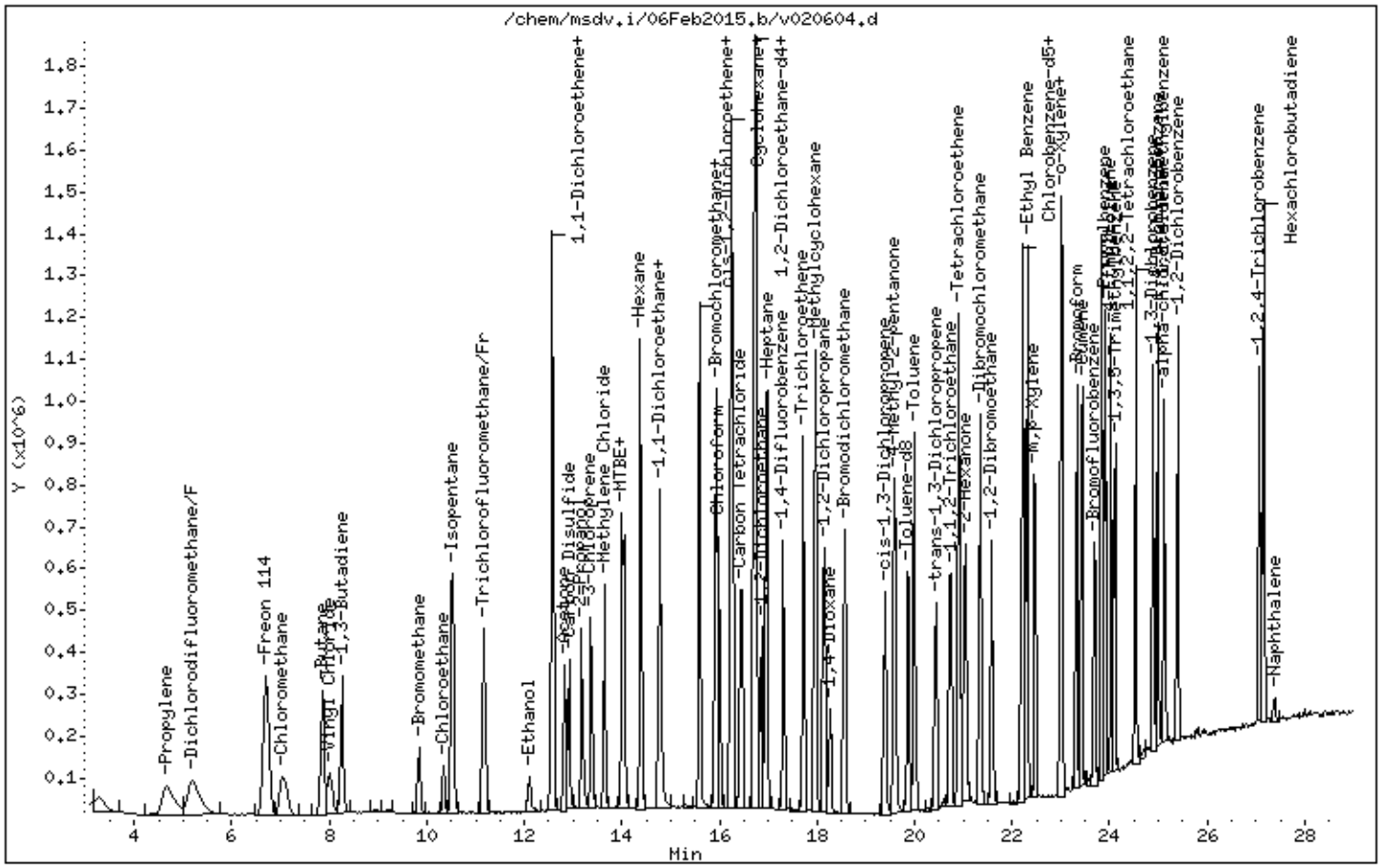
Instrument: msdv.i

Sample Info: 25mL #2687-186

Operator: act

Column phase: RTx-624

Column diameter: 0.32



Eurofins Air Toxics, Inc.

MSD-V

Logbook #2684

BFB Verification of 176/174 m/z Ratio: (789582/818005) X100 = 96.53%	
Tekmar Purge Flow:	
Vacuum:	Z 2/6/15 ACT

IS/S Std. #: 2687 - 2666		Exp. Date: 4/9/15	
BCM LL -	211005	SIM:	224602
1,4-DFB	830109		864583
CB-d5	628752		667295

Verified CCV IS vs ICAL mid-point (-40%D): ACT

File ID: V022602	
Compound: Tol-d8	
Initials: ACT	

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = (763222) x (5.000) = 4.910
(830109) (0.93619)

Reported Result: 4.910

SOP# (Circle one): 6 / 83 / 38 / 91 / 109

Method (Circle one): TO-14A/TO-15/TO-17

Method Name: VTS_0123B/VTS_0123A

	Use	File	Lab ID#	Can#	Pressure	Amt. Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	V022601	BFB Tune Check	2299-790	50ng	2.0µl	1.00	ACT	2/6/15	0607	ACT	
2	✓	02	CCV (50ppbv)	2687-244	5.0ppbv	25mL		ACT		0635	ACT	Exp 4/6/15 Ø out
3	✓	03	LCS	2687-186				ACT		0718	ACT	Exp 3/19/15 Ø out
4	✓	04	LCSD					ACT		0754	~~ES~~	
5	✓	05	ccv-p (5.0ppbv)	2216-22	1.0ppbv	50mL	1.00	~~ES~~		0838	~~ES~~	Exp. 4/7/15 AT-1
6	✓	06	LCS-p (5.0ppbv)	ES 2/10/15 ~~26~~ 2216-X	1.00ppbv	50mL	1.00	~~ES~~		0919	~~ES~~	Exp. 4/9/15
7	✗	07	LAB BLANK	34034	HUMID	250mL	1.00	~~ES~~		1016	~~ES~~	ACETONE = 1/2 RL
8	✗	08	LAB BLANK	34034	HUMID	250mL	1.00	~~ES~~		1059	~~ES~~	1
9	✓	09	LAB BLANK	34034	HUMID	250mL	1.00	~~ES~~		1149	~~ES~~	
10	✓	10	1502053 - 01A	37355	5.5"Hg · 4.8psi	250mL	1.62	~~ES~~		1254	~~ES~~	
11	✓	11	ES 2/11/15 ~~03A~~ 03A	34361	~~6.9"Hg · 4.9psi~~	250mL	~~1.73~~	~~ES~~		1337	~~ES~~	"E" 4.5"Hg - 4.8psi DF = 1.56 ETOH, 2-BUTANONE, ACETONE
12	✓	12	~~03A~~ 02A	34222	~~4.5"Hg · 4.8psi~~ ES 2/10/15	250mL	~~1.56~~	~~ES~~		1412	~~ES~~	>5x RL 6.9"Hg · 4.9psi DF = 1.73
13	✓	13	- 04A	35174	4.5"Hg · 4.9psi	250mL	ES 2/10/15 1.57	~~ES~~		1448	GLK	
14	✓	14	- 05A	33658	2.3"Hg · 4.8psi	250mL	1.76	~~ES~~		1523	GLK	

Reviewed

2/6/15
Date

Eurofins Air Toxics Inc.

Data file : /var/chem/msdv.i/23Jan2015.b/v012301.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 23-JAN-2015 13:24
Operator : ef Inst ID: msdv.i
Smp Info : 2.0uL# 2299-790; BFB; BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdv.i/23Jan2015.b/bfb60.m
Meth Date : 23-Jan-2015 13:41 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	
6.640	6.640	0.000	95	719915			100.00- 100.00	100.00
6.640	6.640	0.000	50	201618			8.00- 40.00	28.01
6.640	6.640	0.000	75	323608			30.00- 66.00	44.95
6.640	6.640	0.000	96	48236			5.00- 9.00	6.70
6.640	6.640	0.000	173	3608			0.00- 1.99	0.68
6.640	6.640	0.000	174	529833			50.00- 120.00	73.60
6.640	6.640	0.000	175	38619			4.00- 9.00	7.29
6.640	6.640	0.000	176	512782			93.00- 101.00	96.78
6.640	6.640	0.000	177	32944			5.00- 9.00	6.42

Data File: /var/chem/msdv.i/23Jan2015.b/v012301.d

Date : 23-JAN-2015 13:24

Client ID: BFB

Instrument: msdv.i

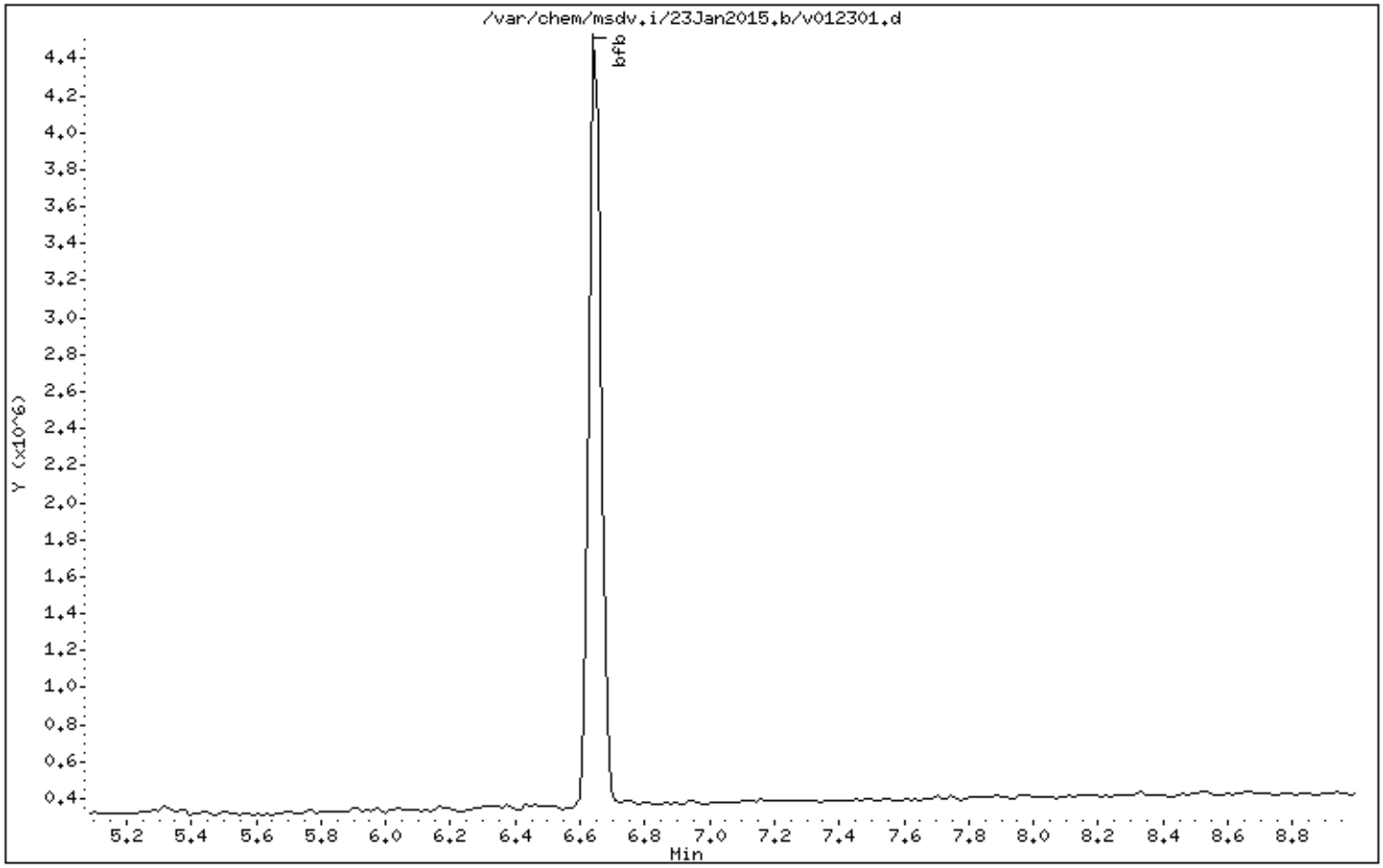
Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: ef

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdv.i/23Jan2015.b/v012301.d

Date : 23-JAN-2015 13:24

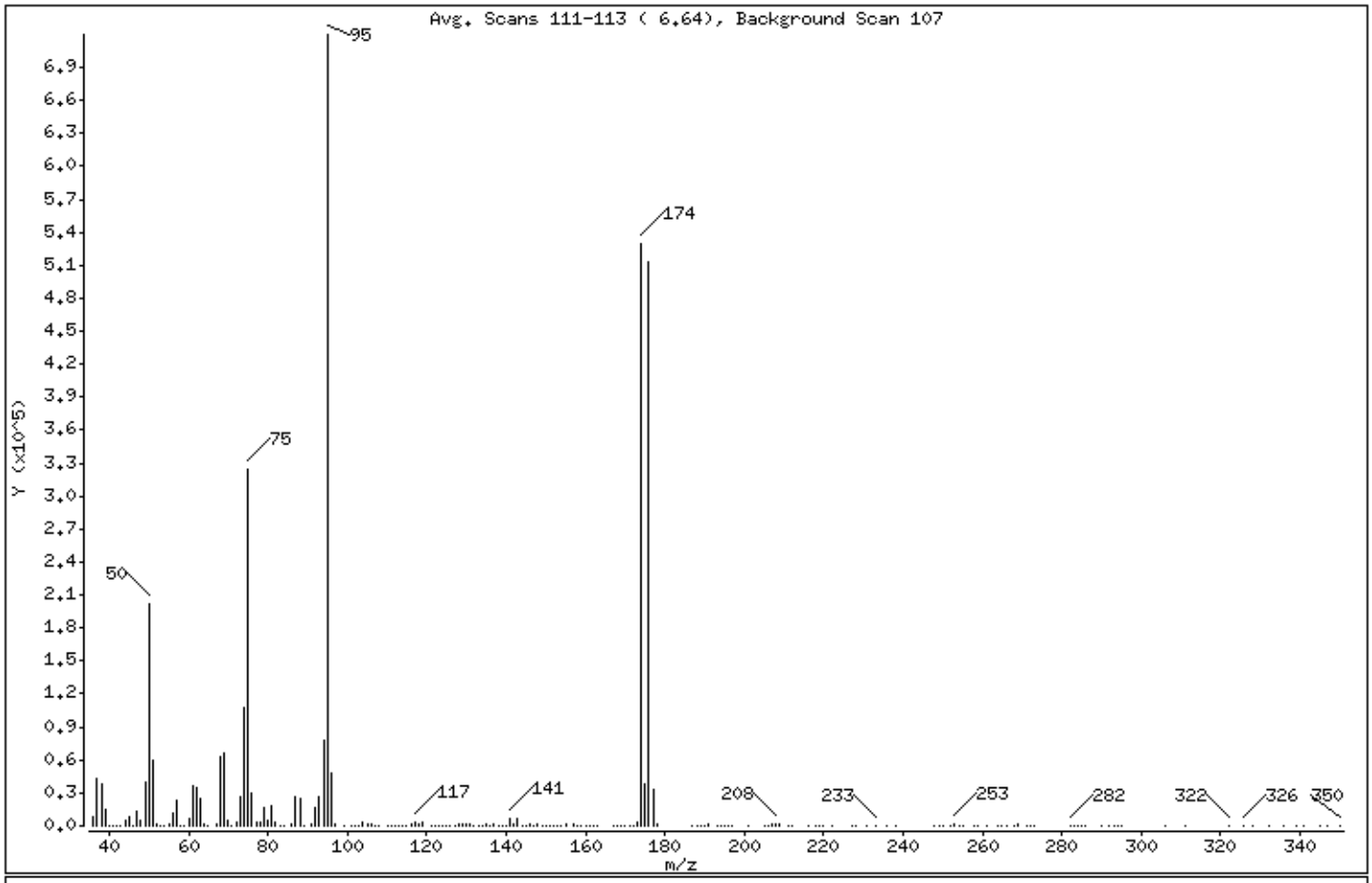
Client ID: BFB Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0 Operator: ef

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	28.01
75	30.00 - 66.00% of mass 95	44.95
96	5.00 - 9.00% of mass 95	6.70
173	Less than 1.99% of mass 174	0.50 (0.68)
174	50.00 - 120.00% of mass 95	73.60
175	4.00 - 9.00% of mass 174	5.36 (7.29)
176	93.00 - 101.00% of mass 174	71.23 (96.78)
177	5.00 - 9.00% of mass 176	4.58 (6.42)

Data File: /var/chem/msdv.i/23Jan2015.b/v012301.d

Date : 23-JAN-2015 13:24

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: ef

Column phase:

Column diameter: 2.00

Data File: v012301.d
Spectrum: Avg. Scans 111-113 (6.64), Background Scan 107
Location of Maximum: 95.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7670	89.00	41	145.00	565	220.00	362
37.00	42720	91.00	2336	146.00	895	222.00	78
38.00	37528	92.00	17304	147.00	633	227.00	88
39.00	14911	93.00	25992	148.00	1510	228.00	74
40.00	6	94.00	77824	149.00	180	231.00	50
41.00	464	95.00	719872	150.00	772	233.00	499
42.00	42	96.00	48232	151.00	58	236.00	82
43.00	685	97.00	1982	152.00	329	238.00	205
44.00	4257	99.00	216	153.00	391	248.00	149
45.00	8338	101.00	61	154.00	496	249.00	128
46.00	654	102.00	164	155.00	1588	250.00	84
47.00	13675	103.00	504	157.00	962	252.00	97
48.00	5236	104.00	2756	158.00	448	253.00	1460
49.00	39464	105.00	835	159.00	701	254.00	290
50.00	201600	106.00	2326	160.00	198	255.00	558
51.00	59648	107.00	475	161.00	465	258.00	50
52.00	1959	108.00	172	162.00	364	259.00	54
53.00	18	110.00	656	163.00	159	261.00	326
54.00	71	111.00	519	167.00	84	264.00	222
55.00	2308	112.00	215	168.00	221	265.00	48
56.00	11444	113.00	482	169.00	200	266.00	141
57.00	23960	114.00	61	170.00	248	268.00	560
58.00	788	115.00	758	171.00	188	269.00	1263
59.00	431	116.00	2481	172.00	617	271.00	302
60.00	7097	117.00	4033	173.00	3608	272.00	254
61.00	36440	118.00	1986	174.00	529792	273.00	181
62.00	34328	119.00	3428	175.00	38616	282.00	747
63.00	25336	121.00	127	176.00	512768	283.00	194
64.00	1983	122.00	352	177.00	32944	284.00	335
65.00	127	123.00	34	178.00	1018	285.00	20
67.00	1509	124.00	545	187.00	272	286.00	65
68.00	63416	125.00	324	188.00	56	290.00	133
69.00	65944	126.00	81	189.00	23	292.00	154
70.00	4901	127.00	267	190.00	136	293.00	243
71.00	234	128.00	2160	191.00	1122	294.00	204

Data File: /var/chem/msdv.i/23Jan2015.b/v012301.d

Date : 23-JAN-2015 13:24

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: ef

Column phase:

Column diameter: 2.00

Data File: v012301.d
Spectrum: Avg. Scans 111-113 (6.64), Background Scan 107
Location of Maximum: 95.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	3281	129.00	1310	193.00	274	295.00	152
73.00	26112	130.00	2278	194.00	222	306.00	468
74.00	108040	131.00	953	195.00	289	311.00	147
75.00	323584	132.00	124	196.00	168	322.00	583
76.00	29296	133.00	4	197.00	108	326.00	249
77.00	3819	134.00	300	201.00	103	328.00	145
78.00	2584	135.00	1871	205.00	17	332.00	48
79.00	16472	136.00	280	206.00	76	336.00	98
80.00	4212	137.00	890	207.00	1210	339.00	92
81.00	17408	138.00	355	208.00	1423	341.00	181
82.00	3481	139.00	555	209.00	1091	345.00	37
83.00	290	140.00	79	211.00	139	347.00	60
84.00	130	141.00	7221	212.00	50	350.00	51
86.00	843	142.00	938	216.00	116		
87.00	25984	143.00	7128	218.00	500		
88.00	24456	144.00	631	219.00	376		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdv.i/24Jan2015.b/v012401.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 24-JAN-2015 07:01
Operator : sn Inst ID: msdv.i
Smp Info : 2.0uL# 2299-790; BFB; BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdv.i/24Jan2015.b/bfb60.m
Meth Date : 24-Jan-2015 07:18 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	
6.626	6.640	-0.014	95	745025			100.00- 100.00	100.00
6.626	6.640	-0.014	50	199182			8.00- 40.00	26.73
6.626	6.640	-0.014	75	332040			30.00- 66.00	44.57
6.626	6.640	-0.014	96	46592			5.00- 9.00	6.25
6.626	6.640	-0.014	173	3364			0.00- 1.99	0.59
6.626	6.640	-0.014	174	566058			50.00- 120.00	75.98
6.626	6.640	-0.014	175	38768			4.00- 9.00	6.85
6.626	6.640	-0.014	176	544874			93.00- 101.00	96.26
6.626	6.640	-0.014	177	35837			5.00- 9.00	6.58

Data File: /chem/msdv.i/24Jan2015.b/v012401.d

Date : 24-JAN-2015 07:01

Client ID: BFB

Instrument: msdv.i

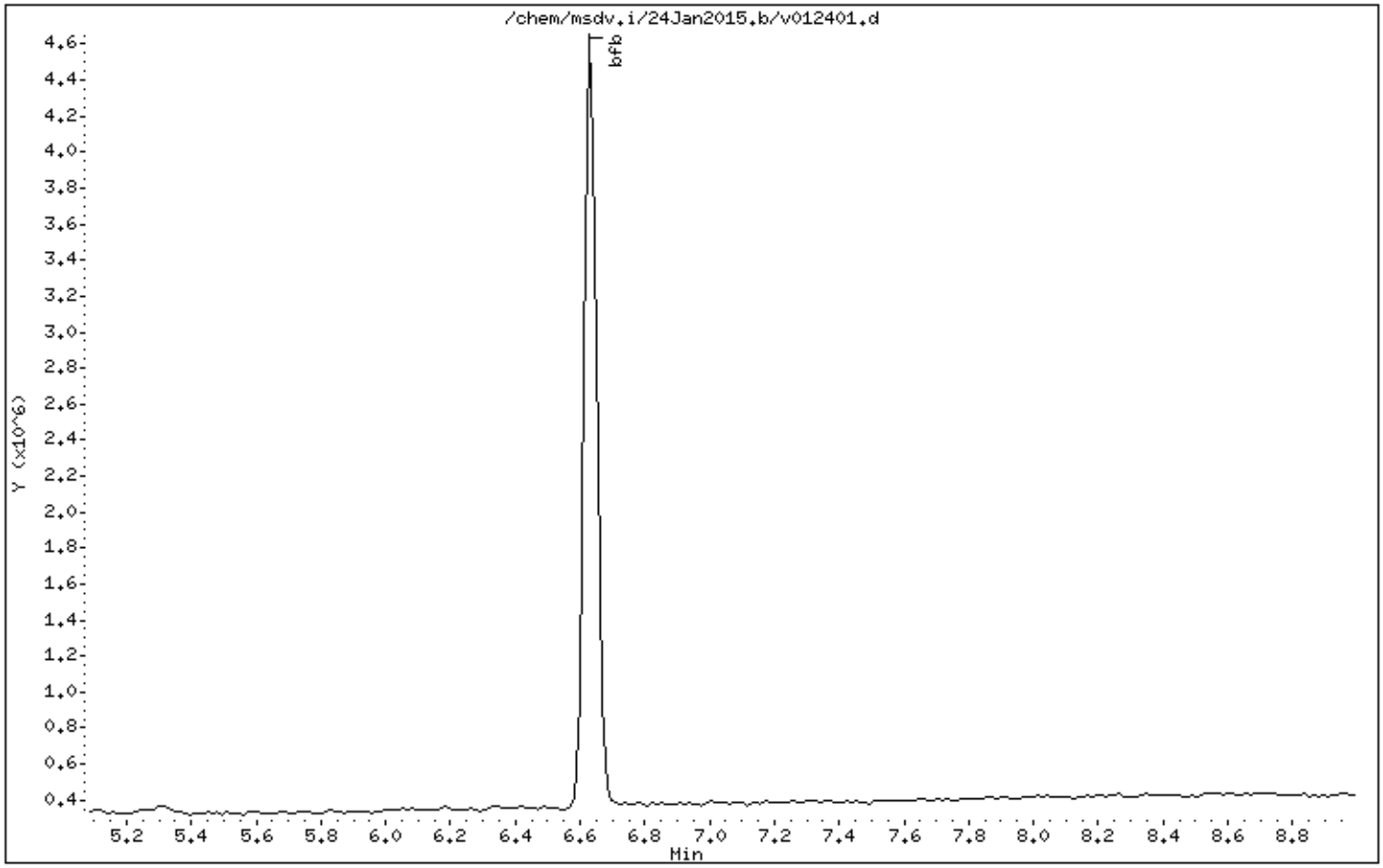
Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: sn

Column phase:

Column diameter: 2.00



Data File: /chem/msdv.i/24Jan2015.b/v012401.d

Date : 24-JAN-2015 07:01

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

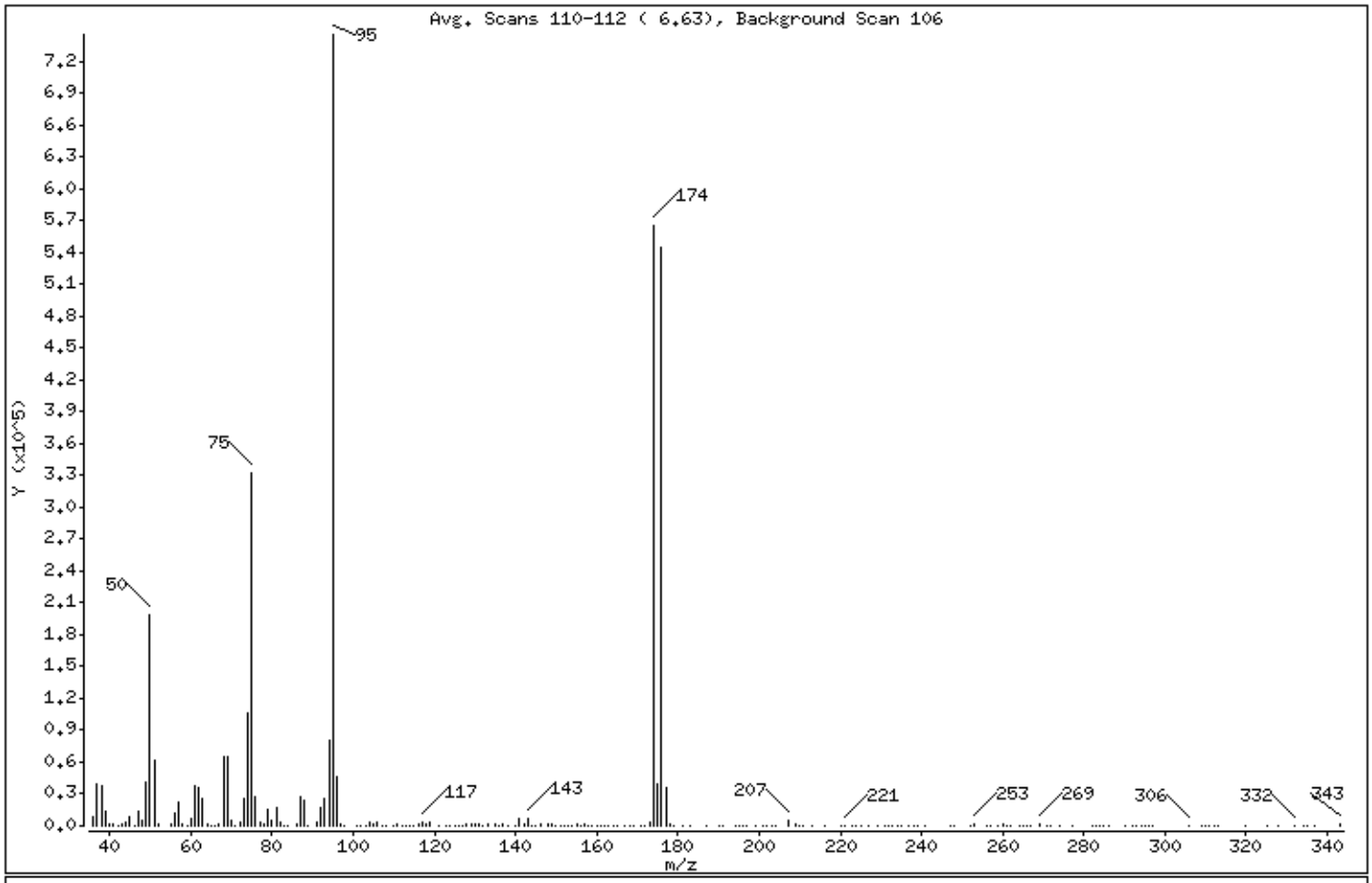
Volume Injected (uL): 1.0

Operator: sn

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	26.73
75	30.00 - 66.00% of mass 95	44.57
96	5.00 - 9.00% of mass 95	6.25
173	Less than 1.99% of mass 174	0.45 (0.59)
174	50.00 - 120.00% of mass 95	75.98
175	4.00 - 9.00% of mass 174	5.20 (6.85)
176	93.00 - 101.00% of mass 174	73.13 (96.26)
177	5.00 - 9.00% of mass 176	4.81 (6.58)

Data File: /chem/msdv.i/24Jan2015.b/v012401.d

Date : 24-JAN-2015 07:01

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: sn

Column phase:

Column diameter: 2.00

Data File: v012401.d
Spectrum: Avg. Scans 110-112 (6.63), Background Scan 106
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7733	93.00	25832	154.00	310	233.00	54
37.00	40080	94.00	80496	155.00	1240	234.00	334
38.00	37200	95.00	745024	156.00	416	235.00	77
39.00	13533	96.00	46592	157.00	1264	237.00	13
40.00	1310	97.00	1151	158.00	234	238.00	59
41.00	972	98.00	26	159.00	379	239.00	16
42.00	170	101.00	32	160.00	220	241.00	66
43.00	1514	102.00	263	161.00	687	247.00	12
44.00	3446	103.00	383	162.00	432	248.00	240
45.00	9384	104.00	2876	163.00	694	252.00	377
46.00	640	105.00	1011	164.00	284	253.00	1750
47.00	13942	106.00	2740	165.00	58	256.00	86
48.00	5485	107.00	612	167.00	118	257.00	199
49.00	40256	108.00	274	168.00	137	259.00	76
50.00	199168	110.00	402	169.00	172	260.00	964
51.00	61944	111.00	862	171.00	421	261.00	255
52.00	2389	112.00	331	172.00	459	262.00	160
55.00	2297	113.00	711	173.00	3364	264.00	59
56.00	12757	114.00	69	174.00	566016	265.00	349
57.00	22648	115.00	554	175.00	38768	266.00	230
58.00	1012	116.00	2228	176.00	544832	267.00	390
59.00	61	117.00	3966	177.00	35832	269.00	1043
60.00	6772	118.00	2447	178.00	938	271.00	316
61.00	37400	119.00	3248	179.00	18	272.00	89
62.00	35440	121.00	35	181.00	73	274.00	55
63.00	25896	123.00	256	183.00	111	277.00	145
64.00	2149	124.00	664	187.00	237	282.00	228
65.00	244	125.00	32	190.00	5	283.00	170
66.00	29	126.00	211	191.00	279	284.00	47
67.00	1738	127.00	196	194.00	247	285.00	221
68.00	64664	128.00	2132	195.00	611	286.00	193
69.00	65888	129.00	1309	196.00	12	290.00	40
70.00	4823	130.00	2533	197.00	3	292.00	56
71.00	199	131.00	1356	199.00	95	293.00	104
72.00	3102	132.00	204	201.00	105	294.00	112

Data File: /chem/msdv.i/24Jan2015.b/v012401.d

Date : 24-JAN-2015 07:01

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: sn

Column phase:

Column diameter: 2.00

Data File: v012401.d
Spectrum: Avg. Scans 110-112 (6.63), Background Scan 106
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	26408	133.00	1071	202.00	14	295.00	160
74.00	106288	135.00	1882	203.00	138	296.00	166
75.00	332032	136.00	479	204.00	17	297.00	129
76.00	27280	137.00	1204	207.00	5533	306.00	452
77.00	3275	138.00	262	209.00	935	309.00	215
78.00	2245	140.00	660	210.00	100	310.00	102
79.00	15827	141.00	6501	211.00	31	311.00	61
80.00	5313	142.00	1018	213.00	62	312.00	232
81.00	16375	143.00	7628	216.00	15	313.00	225
82.00	2806	144.00	662	220.00	362	320.00	52
83.00	465	145.00	711	221.00	412	325.00	160
84.00	31	146.00	1284	223.00	143	328.00	239
86.00	893	148.00	1204	224.00	121	332.00	303
87.00	28184	149.00	980	225.00	151	334.00	105
88.00	24560	150.00	707	227.00	59	335.00	19
89.00	599	151.00	129	229.00	70	337.00	122
91.00	3090	152.00	591	231.00	168	343.00	909
92.00	17808	153.00	531	232.00	355		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdv.i/27Jan2015.b/v012701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 27-JAN-2015 06:11
Operator : act Inst ID: msdv.i
Smp Info : 2.0uL# 2299-790; BFB; BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdv.i/27Jan2015.b/bfb60.m
Meth Date : 27-Jan-2015 06:27 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	
6.640	6.640	0.000	95	997207			100.00- 100.00	100.00
6.640	6.640	0.000	50	269079			8.00- 40.00	26.98
6.640	6.640	0.000	75	445256			30.00- 66.00	44.65
6.640	6.640	0.000	96	64888			5.00- 9.00	6.51
6.640	6.640	0.000	173	5118			0.00- 1.99	0.63
6.640	6.640	0.000	174	808917			50.00- 120.00	81.12
6.640	6.640	0.000	175	56986			4.00- 9.00	7.04
6.640	6.640	0.000	176	775510			93.00- 101.00	95.87
6.640	6.640	0.000	177	51807			5.00- 9.00	6.68

Data File: /chem/msdv.i/27Jan2015.b/v012701.d

Date : 27-JAN-2015 06:11

Client ID: BFB

Instrument: msdv.i

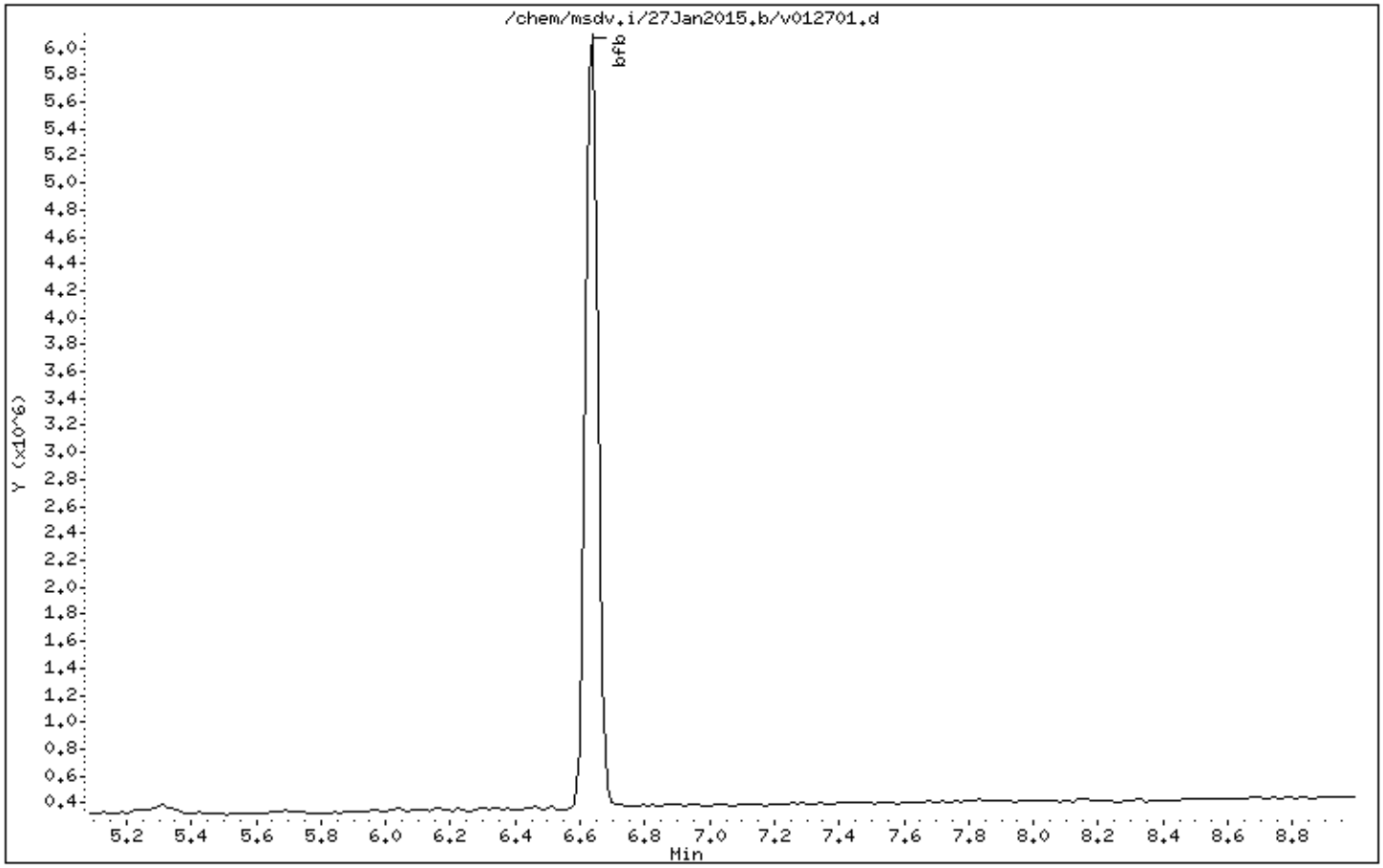
Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: act

Column phase:

Column diameter: 2.00



Data File: /chem/msdv.i/27Jan2015.b/v012701.d

Date : 27-JAN-2015 06:11

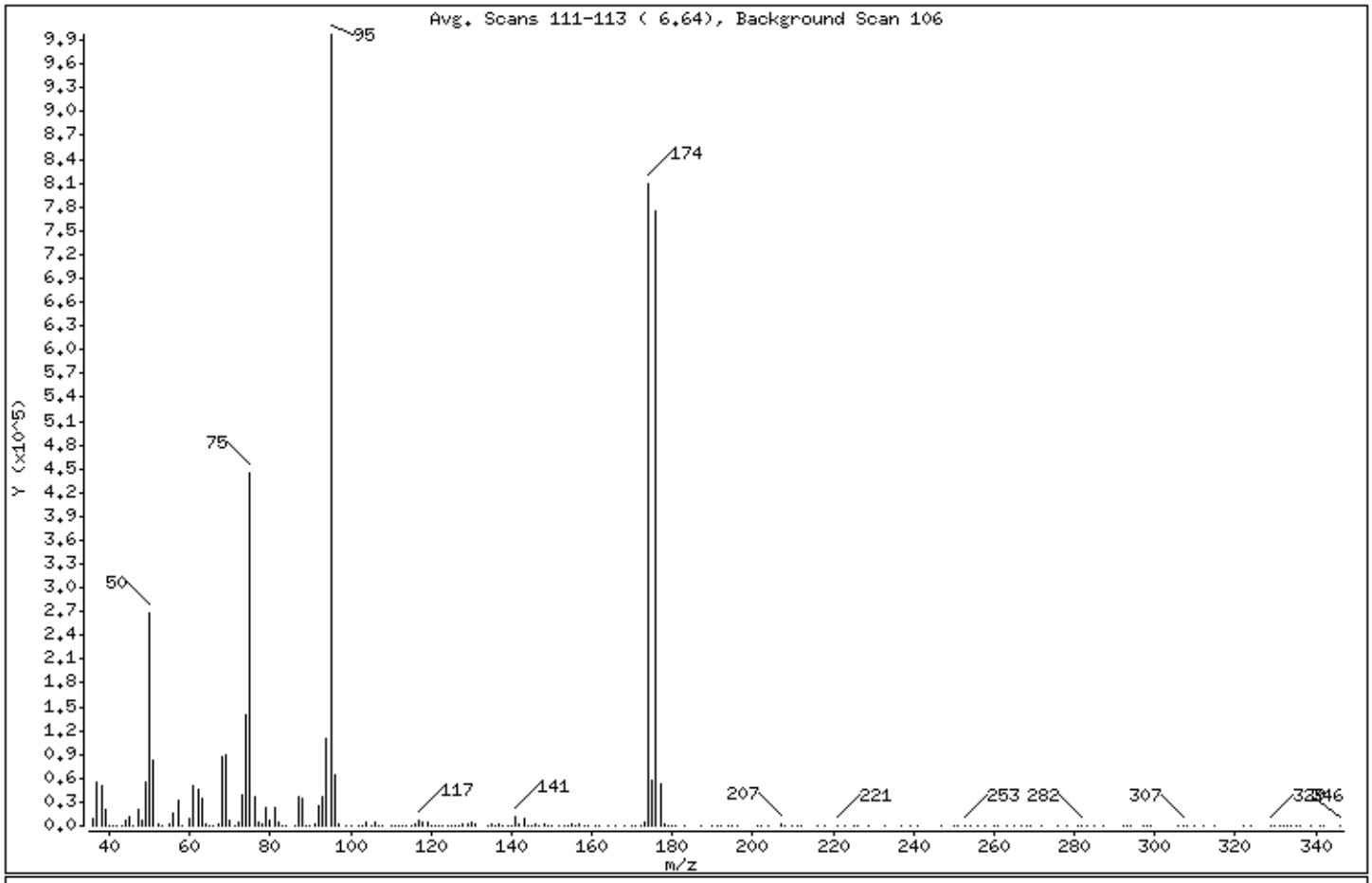
Client ID: BFB Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0 Operator: act

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	26.98
75	30.00 - 66.00% of mass 95	44.65
96	5.00 - 9.00% of mass 95	6.51
173	Less than 1.99% of mass 174	0.51 (0.63)
174	50.00 - 120.00% of mass 95	81.12
175	4.00 - 9.00% of mass 174	5.71 (7.04)
176	93.00 - 101.00% of mass 174	77.77 (95.87)
177	5.00 - 9.00% of mass 176	5.20 (6.68)

Data File: /chem/msdv.i/27Jan2015.b/v012701.d

Date : 27-JAN-2015 06:11

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: act

Column phase:

Column diameter: 2.00

Data File: v012701.d
Spectrum: Avg. Scans 111-113 (6.64), Background Scan 106
Location of Maximum: 95.00
Number of points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9940	91.00	2838	148.00	1832	237.00	50
37.00	54928	92.00	24960	149.00	632	239.00	85
38.00	50944	93.00	36752	150.00	927	241.00	154
39.00	19568	94.00	109448	152.00	423	247.00	549
40.00	972	95.00	997184	153.00	676	250.00	94
41.00	785	96.00	64888	154.00	293	251.00	479
42.00	228	97.00	2022	155.00	2737	253.00	714
43.00	665	99.00	219	156.00	267	254.00	196
44.00	6446	100.00	74	157.00	1635	256.00	178
45.00	11561	102.00	438	158.00	409	258.00	78
46.00	834	103.00	608	159.00	846	260.00	666
47.00	20176	104.00	3491	161.00	902	261.00	328
48.00	6535	105.00	1118	162.00	325	263.00	101
49.00	55064	106.00	4029	164.00	37	265.00	371
50.00	269056	107.00	1016	166.00	189	267.00	572
51.00	81848	108.00	380	168.00	111	268.00	191
52.00	3433	110.00	366	170.00	408	269.00	994
53.00	176	111.00	724	171.00	366	272.00	51
55.00	3142	112.00	431	172.00	843	276.00	53
56.00	16880	113.00	1108	173.00	5118	278.00	89
57.00	32016	114.00	76	174.00	808896	281.00	158
58.00	973	115.00	1039	175.00	56984	282.00	1007
60.00	9132	116.00	2972	176.00	775488	283.00	132
61.00	51096	117.00	5988	177.00	51800	285.00	81
62.00	46632	118.00	3552	178.00	2074	287.00	79
63.00	33600	119.00	4673	179.00	416	292.00	132
64.00	3147	120.00	99	180.00	171	293.00	119
65.00	489	121.00	17	181.00	229	294.00	117
66.00	162	122.00	440	183.00	67	297.00	2
67.00	1624	123.00	546	187.00	194	298.00	69
68.00	87776	124.00	677	190.00	24	299.00	74
69.00	89832	125.00	554	191.00	680	306.00	41
70.00	6021	126.00	339	192.00	334	307.00	265
71.00	441	127.00	482	194.00	532	308.00	31
72.00	4415	128.00	3140	195.00	301	310.00	54

Data File: /chem/msdv.i/27Jan2015.b/v012701.d

Date : 27-JAN-2015 06:11

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: act

Column phase:

Column diameter: 2.00

Data File: v012701.d
Spectrum: Avg. Scans 111-113 (6.64), Background Scan 106
Location of Maximum: 95.00
Number of points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	37864	129.00	1771	196.00	161	312.00	60
74.00	140864	130.00	3831	201.00	110	315.00	68
75.00	445248	131.00	1465	202.00	107	322.00	257
76.00	37072	134.00	247	204.00	108	324.00	95
77.00	4317	135.00	2319	207.00	1957	329.00	380
78.00	3265	136.00	186	208.00	783	330.00	156
79.00	22656	137.00	1574	210.00	174	331.00	33
80.00	6752	138.00	83	211.00	105	332.00	49
81.00	22920	139.00	473	212.00	56	333.00	64
82.00	5370	140.00	595	216.00	361	334.00	3
83.00	515	141.00	10323	218.00	270	335.00	116
84.00	282	142.00	1454	221.00	363	336.00	38
86.00	1097	143.00	9961	223.00	128	339.00	54
87.00	36816	144.00	600	225.00	263	341.00	112
88.00	35264	145.00	391	226.00	50	342.00	125
89.00	1133	146.00	1679	229.00	78	346.00	55
90.00	188	147.00	606	233.00	126		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdv.i/06Feb2015.b/v020601.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 06-FEB-2015 06:07
Operator : act Inst ID: msdv.i
Smp Info : 2.0uL# 2299-790; BFB; BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdv.i/06Feb2015.b/bfb60.m
Meth Date : 06-Feb-2015 06:24 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	
6.626	6.640	-0.014	95	1095512			100.00- 100.00	100.00
6.626	6.640	-0.014	50	324713			8.00- 40.00	29.64
6.626	6.640	-0.014	75	492483			30.00- 66.00	44.95
6.626	6.640	-0.014	96	71565			5.00- 9.00	6.53
6.626	6.640	-0.014	173	5726			0.00- 1.99	0.70
6.626	6.640	-0.014	174	818005			50.00- 120.00	74.67
6.626	6.640	-0.014	175	58868			4.00- 9.00	7.20
6.626	6.640	-0.014	176	789582			93.00- 101.00	96.53
6.626	6.640	-0.014	177	51054			5.00- 9.00	6.47

Data File: /chem/msdv.i/06Feb2015.b/v020601.d

Date : 06-FEB-2015 06:07

Client ID: BFB

Instrument: msdv.i

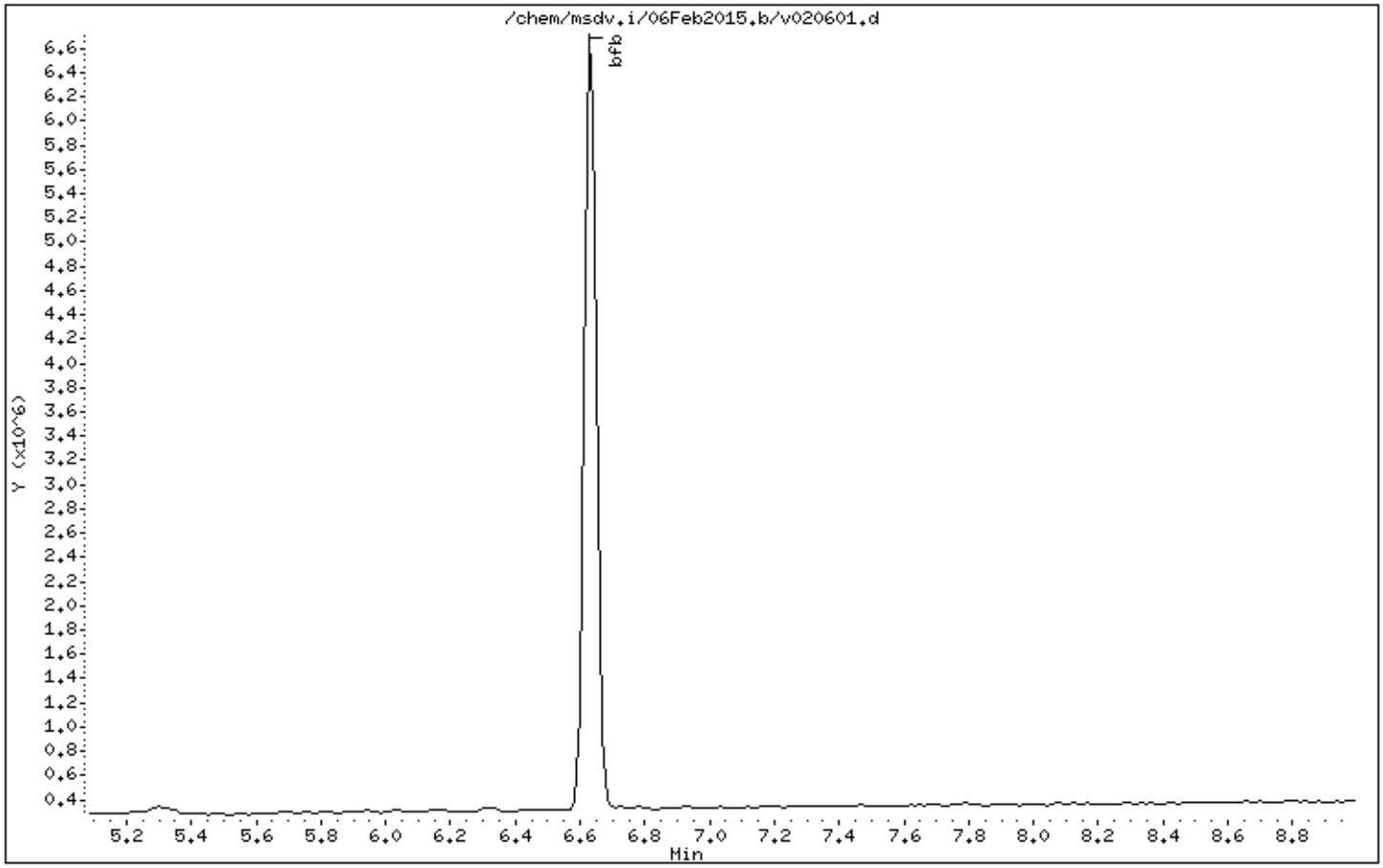
Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: act

Column phase:

Column diameter: 2.00



Data File: /chem/msdv.i/06Feb2015.b/v020601.d

Date : 06-FEB-2015 06:07

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

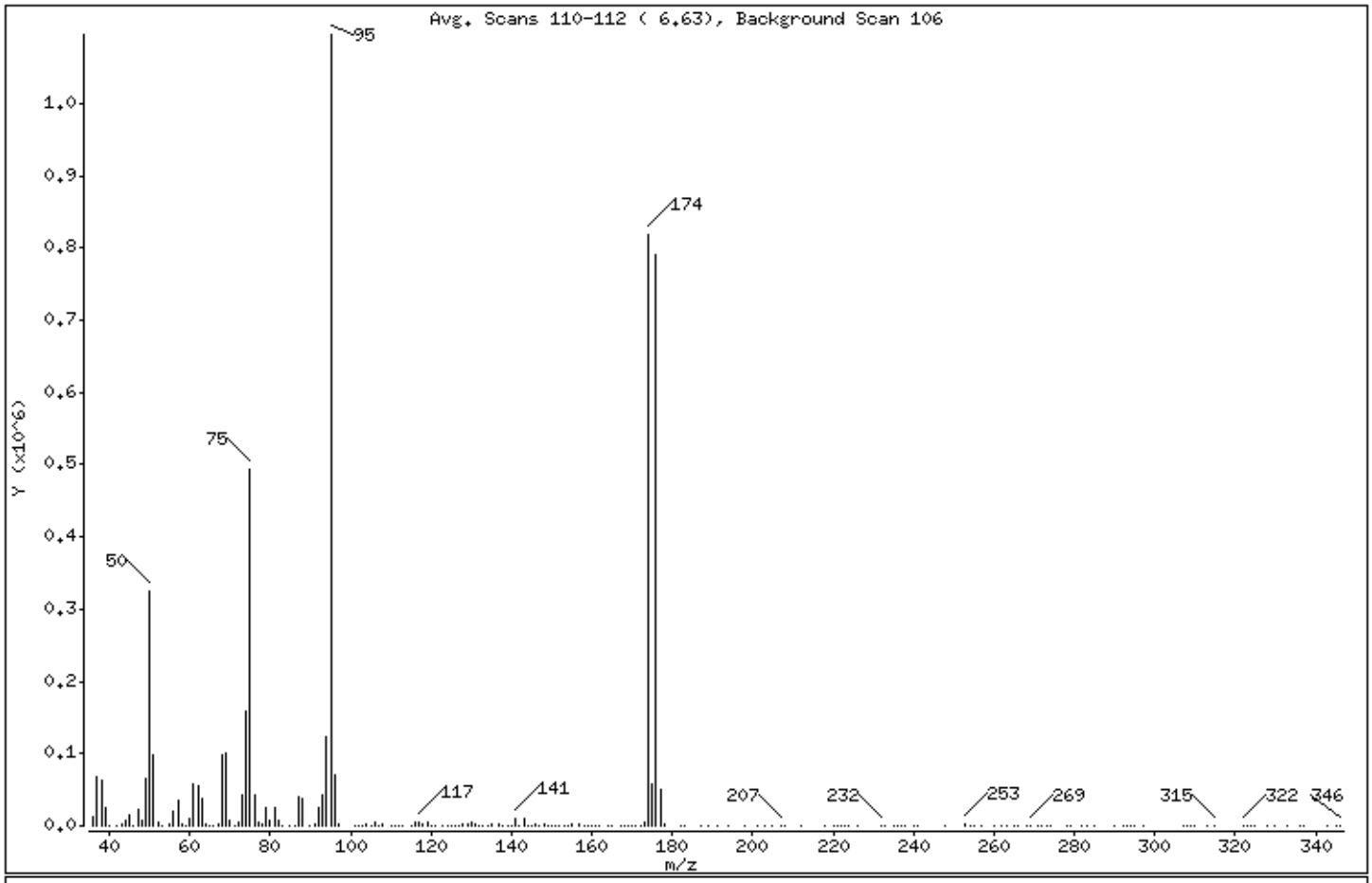
Volume Injected (uL): 1.0

Operator: act

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	29.64
75	30.00 - 66.00% of mass 95	44.95
96	5.00 - 9.00% of mass 95	6.53
173	Less than 1.99% of mass 174	0.52 (0.70)
174	50.00 - 120.00% of mass 95	74.67
175	4.00 - 9.00% of mass 174	5.37 (7.20)
176	93.00 - 101.00% of mass 174	72.07 (96.53)
177	5.00 - 9.00% of mass 176	4.66 (6.47)

Data File: /chem/msdv.i/06Feb2015.b/v020601.d

Date : 06-FEB-2015 06:07

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: act

Column phase:

Column diameter: 2.00

Data File: v020601.d
Spectrum: Avg. Scans 110-112 (6.63), Background Scan 106
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	12302	91.00	3207	149.00	784	237.00	133
37.00	68656	92.00	26408	150.00	865	238.00	160
38.00	63464	93.00	41896	151.00	68	240.00	206
39.00	25024	94.00	122736	152.00	471	241.00	75
40.00	973	95.00	1095168	153.00	667	248.00	71
42.00	523	96.00	71560	154.00	699	253.00	1273
43.00	1427	97.00	2193	155.00	2223	254.00	70
44.00	6936	101.00	141	157.00	1956	255.00	370
45.00	13979	102.00	52	158.00	323	257.00	63
46.00	846	103.00	579	159.00	1034	260.00	338
47.00	23680	104.00	3769	160.00	42	262.00	249
48.00	8685	105.00	967	161.00	982	263.00	107
49.00	65416	106.00	4083	162.00	177	265.00	177
50.00	324672	107.00	983	164.00	15	266.00	195
51.00	98784	108.00	1306	165.00	376	268.00	19
52.00	4051	110.00	550	167.00	33	269.00	788
53.00	188	111.00	882	168.00	165	271.00	188
55.00	3388	112.00	896	169.00	261	272.00	98
56.00	21104	113.00	1078	170.00	312	273.00	117
57.00	36432	115.00	1054	171.00	476	274.00	74
58.00	1403	116.00	3970	172.00	696	278.00	65
59.00	661	117.00	5574	173.00	5726	279.00	60
60.00	11166	118.00	3414	174.00	817984	282.00	575
61.00	58240	119.00	4865	175.00	58864	283.00	58
62.00	54760	120.00	216	176.00	789568	285.00	114
63.00	37544	121.00	191	177.00	51048	290.00	53
64.00	3607	123.00	77	178.00	1552	292.00	207
65.00	375	124.00	674	182.00	201	293.00	83
66.00	52	125.00	503	183.00	171	294.00	147
67.00	2435	126.00	595	187.00	109	295.00	158
68.00	97816	127.00	781	189.00	138	297.00	120
69.00	101752	128.00	3707	191.00	321	307.00	128
70.00	6526	129.00	1799	194.00	30	308.00	136
71.00	413	130.00	4025	198.00	62	309.00	55
72.00	4609	131.00	1474	201.00	72	310.00	61

Data File: /chem/msdv.i/06Feb2015.b/v020601.d

Date : 06-FEB-2015 06:07

Client ID: BFB

Instrument: msdv.i

Sample Info: 2.0uL# 2299-790; BFB; BFB

Volume Injected (uL): 1.0

Operator: act

Column phase:

Column diameter: 2.00

Data File: v020601.d
Spectrum: Avg. Scans 110-112 (6.63), Background Scan 106
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	42352	132.00	238	203.00	107	313.00	103
74.00	158336	133.00	147	205.00	64	315.00	267
75.00	492480	134.00	290	207.00	453	322.00	413
76.00	41600	135.00	2589	208.00	155	323.00	68
77.00	4806	137.00	1855	212.00	83	324.00	100
78.00	3425	138.00	54	218.00	83	325.00	81
79.00	24840	139.00	171	220.00	111	328.00	130
80.00	7309	140.00	827	221.00	214	330.00	1
81.00	26024	141.00	10353	222.00	98	333.00	85
82.00	6298	142.00	1231	223.00	83	336.00	48
83.00	629	143.00	10198	224.00	182	337.00	61
85.00	331	144.00	832	226.00	78	343.00	403
86.00	1108	145.00	725	232.00	541	345.00	123
87.00	39416	146.00	1359	233.00	25	346.00	39
88.00	38240	147.00	638	235.00	68		
90.00	336	148.00	2412	236.00	174		

Shipping/ Receiving Documents

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Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). 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 accuracy.

For corrections call: **Brian Whittaker at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) 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 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

eurofins | Air Toxics

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

Project Manager Terry Taylor
Collected by: (Print and Sign)
Company AMAI Email ttaylor@amaiconsult.com
Address 110 Corporate Pkc City White Plains State NY Zip 10604
Phone 914-251-0400 Fax

Project Info:
P.O. #
Project #
Project Name Building 6 VI

Turn Around Time:
☐ Normal
☒ Rush 3days 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	B6-4IA	3735	2/3/15	1341	See Below	30"	5"		
02A	B6-5IA	34222	2/3/15	1546	↓	30"	8"		
03A	B6-AA-1	34361	2/3/15	1535	↓	30"	6"		
04A	B6-3IA	35174	2/3/15	1600	↓	30"	5"		
05A	B6-3IAD	33658	2/3/15	1600	↓	30"	8.5		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
2/3/15 : 1621	2-5-15 1125
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:
methane via ASTM D-1946.
Acetone, Benzene, Ethylbenzene, Isopropyl Alcohol, Methanol, MIBK, Toluene, xylene via TO-15.
Report to MDL.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	7728 0914 4775	NA	Good	Yes No None	1502053

Form 1293 rev.1

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SAMPLE RECEIPT SUMMARY

WORKORDER 1502053AR1

Client

Mr. Terry Taylor
Anderson Mulholland &
Associates, Inc.
2700 Westchester Avenue
Suite 417
Purchase, NY 10577
Sales Rep: N/A

Phone

(914) 251-0400

Fax

Date Promised: 06/26/15
Date Completed: 6/26/15
Date Received: 2/5/15
PO#:
Project#: Building 6 VI

Total $: $ 160.00
Logged By: JCW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	B6-4IA	Modified TO-15	2/3/2015	5.5 "Hg	$0.00
02A	B6-5IA	Modified TO-15	2/3/2015	6.9 "Hg	$0.00
03A	B6-AA-1	Modified TO-15	2/3/2015	4.5 "Hg	$0.00
04A	B6-3IA	Modified TO-15	2/3/2015	4.5 "Hg	$0.00
05A	B6-3IAD	Modified TO-15	2/3/2015	7.3 "Hg	$0.00
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	Reissue Charges (1) @ $135.00 each.	$135.00
	eCVP (5) @ $5.00 each.	$25.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: BMS/19256

BILL TO: Accounts Payable
Anderson Mulholland & Associates, Inc.
2700 Westchester Avenue
Suite 417
Purchase, NY 10577

Analysis Code: pptv

TERMS:

Reporting Method: Modified TO-15-LL + Naph

Other Records

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

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

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
0.0	1.34	2.02
0.2	1.35	2.03
0.4	1.36	2.05
0.5	1.36	2.05
0.6	1.37	2.06
0.8	1.38	2.08
1.0	1.39	2.09
1.2	1.40	2.10
1.4	1.40	2.12
1.5	1.41	2.13
1.6	1.42	2.13
1.8	1.42	2.15
2.0	1.44	2.16
2.2	1.45	2.18
2.4	1.46	2.20
2.5	1.46	2.20
2.6	1.47	2.21
2.8	1.48	2.23
3.0	1.49	2.24
3.2	1.50	2.26
3.4	1.51	2.28
3.5	1.52	2.29
3.6	1.52	2.30
3.8	1.53	2.31
4.0	1.55	2.33
4.2	1.56	2.35
4.4	1.57	2.37
4.5	1.58	2.38
4.6	1.58	2.39
4.8	1.60	2.40
5.0	1.61	2.42
5.2	1.62	2.44
5.4	1.63	2.46
5.5	1.64	2.47
5.6	1.65	2.48
5.8	1.66	2.50
6.0	1.68	2.52
6.2	1.69	2.55
6.4	1.70	2.57
6.5	1.71	2.58
6.6	1.72	2.59
6.8	1.73	2.61
7.0	1.75	2.64
7.2	1.76	2.66
7.4	1.78	2.68
7.5	1.79	2.69
7.6	1.79	2.70

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
7.7	1.80	2.72
7.8	1.81	2.73
8.0	1.83	2.76
8.2	1.84	2.78
8.4	1.86	2.81
8.5	1.87	2.82
8.6	1.88	2.83
8.8	1.90	2.86
9.0	1.91	2.89
9.2	1.93	2.91
9.4	1.95	2.94
9.5	1.96	2.96
9.6	1.97	2.97
9.8	1.99	3.00
10.0	2.01	3.03
10.2	2.03	3.06
10.4	2.05	3.09
10.5	2.06	3.11
10.6	2.07	3.12
10.8	2.09	3.16
11.0	2.12	3.19
11.2	2.14	3.22
11.4	2.16	3.26
11.5	2.17	3.28
11.6	2.18	3.29
11.8	2.21	3.33
12.0	2.23	3.37
12.2	2.26	3.40
12.4	2.28	3.44
12.5	2.30	3.46
12.6	2.31	3.48
12.8	2.34	3.52
13.0	2.36	3.56
13.2	2.39	3.61
13.4	2.42	3.65
13.5	2.44	3.67
13.6	2.45	3.70
13.8	2.48	3.74
14.0	2.51	3.79
14.2	2.54	3.84
14.4	2.58	3.88
14.5	2.59	3.91
14.6	2.61	3.94
14.8	2.64	3.99
15.0	2.68	4.04
15.2	2.72	4.10
15.4	2.75	4.15

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
15.5	2.77	4.18
15.6	2.79	4.21
15.8	2.83	4.27
16.0	2.87	4.33
16.2	2.91	4.39
16.4	2.96	4.46
16.5	2.98	4.49
16.6	3.00	4.52
16.8	3.05	4.59
17.0	3.09	4.66
17.2	3.14	4.74
17.4	3.19	4.81
17.5	3.22	4.85
17.6	3.24	4.89
17.8	3.30	4.97
18.0	3.35	5.05
18.2	3.41	5.14
18.4	3.47	5.22
18.5	3.50	5.27
18.6	3.53	5.32
18.8	3.59	5.41
19.0	3.65	5.51
19.2	3.72	5.61
19.4	3.79	5.72
19.5	3.83	5.77
19.6	3.87	5.83
19.8	3.94	5.94
20.0	4.02	6.06
20.2	4.10	6.18
20.4	4.19	6.31
20.5	4.23	6.38
20.6	4.28	6.45
20.8	4.37	6.59
21.0	4.47	6.73
21.2	4.57	6.89
21.4	4.67	7.05
21.5	4.73	7.13
21.6	4.79	7.22
21.8	4.90	7.39
22.0	5.03	7.58
22.4	5.29	7.98

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
22.5	5.36	8.08
22.6	5.43	8.19
22.8	5.58	8.42
23.0	5.74	8.66
23.2	5.91	8.91
23.4	6.09	9.18
23.5	6.19	9.32
23.6	6.28	9.47
23.8	6.48	9.78
24.0	6.70	10.10
24.2	6.93	10.45
24.4	7.18	10.82
24.5	7.31	11.02
24.6	7.45	11.22
24.8	7.73	11.66
25.0	8.04	12.12
25.2	8.38	12.63
25.4	8.74	13.18
25.5	8.93	13.47
25.6	9.14	13.78
25.8	9.57	14.43
26.0	10.05	15.15
26.2	10.58	15.95
26.4	11.17	16.84
26.5	11.49	17.32
26.6	11.82	17.83
26.8	12.56	18.94
27.0	13.40	20.20
27.2	14.36	21.65
27.4	15.46	23.31
27.5	16.08	24.24
27.6	16.75	25.26
27.8	18.27	27.55
28.0	20.10	30.31
28.2	22.34	33.67
28.4	25.13	37.88
28.5	26.80	40.41
28.6	28.72	43.29
28.8	33.50	50.51
29.0	40.20	60.61

Compound List

Modified TO-15-LL + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.10	
76-14-2	Freon 114	0.10	
75-35-4	1,1-Dichloroethene	0.10	
67-64-1	Acetone	0.50	
67-63-0	2-Propanol	0.50	
75-15-0	Carbon Disulfide	0.50	
75-09-2	Methylene Chloride	0.20	
1634-04-4	Methyl tert-butyl ether	0.10	
156-60-5	trans-1,2-Dichloroethene	0.10	
110-54-3	Hexane	0.10	
75-34-3	1,1-Dichloroethane	0.10	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
156-59-2	cis-1,2-Dichloroethene	0.10	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.10	
71-55-6	1,1,1-Trichloroethane	0.10	
110-82-7	Cyclohexane	0.10	
56-23-5	Carbon Tetrachloride	0.10	
71-43-2	Benzene	0.10	
107-06-2	1,2-Dichloroethane	0.10	
142-82-5	Heptane	0.10	
79-01-6	Trichloroethene	0.10	
78-87-5	1,2-Dichloropropane	0.10	
123-91-1	1,4-Dioxane	0.10	
75-27-4	Bromodichloromethane	0.10	
10061-01-5	cis-1,3-Dichloropropene	0.10	
108-10-1	4-Methyl-2-pentanone	0.10	
108-88-3	Toluene	0.10	
10061-02-6	trans-1,3-Dichloropropene	0.10	
79-00-5	1,1,2-Trichloroethane	0.10	
127-18-4	Tetrachloroethene	0.10	
591-78-6	2-Hexanone	0.50	
124-48-1	Dibromochloromethane	0.10	
106-93-4	1,2-Dibromoethane (EDB)	0.10	
108-90-7	Chlorobenzene	0.10	
100-41-4	Ethyl Benzene	0.10	
108-38-3	m,p-Xylene	0.10	
95-47-6	o-Xylene	0.10	
100-42-5	Styrene	0.10	
75-25-2	Bromoform	0.10	
98-82-8	Cumene	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	0.10	
103-65-1	Propylbenzene	0.10	
622-96-8	4-Ethyltoluene	0.10	
108-67-8	1,3,5-Trimethylbenzene	0.10	
95-63-6	1,2,4-Trimethylbenzene	0.10	

Compound List

Modified TO-15-LL + Naph

CAS Number	Compound	Detection Limit ppbv	Type
541-73-1	1,3-Dichlorobenzene	0.10	
106-46-7	1,4-Dichlorobenzene	0.10	
100-44-7	alpha-Chlorotoluene	0.10	
95-50-1	1,2-Dichlorobenzene	0.10	
120-82-1	1,2,4-Trichlorobenzene	0.50	
87-68-3	Hexachlorobutadiene	0.50	
91-20-3	Naphthalene	0.50	
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		
460-00-4	4-Bromofluorobenzene		
107-05-1	3-Chloropropene	0.50	
540-84-1	2,2,4-Trimethylpentane	0.50	
74-87-3	Chloromethane	0.50	
75-01-4	Vinyl Chloride	0.10	
106-99-0	1,3-Butadiene	0.10	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.10	
64-17-5	Ethanol	0.50	
76-13-1	Freon 113	0.10	

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Media Certification Report

Canister Number: 6L# 3735w/24hr# 30691
Can#: 99897-3735
Date : 12/17/14 15:03
Data File: o121715.d

www.airtoxics.com
1-800-985-5955

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 Ketone)	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
4-Bromofluorobenzene	460-00-4	99.00	% Recovery

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Media Certification Report

Canister Number: 6L# 34222w/24hr# 40624
Can#: 99897-34222
Date : 12/17/14 16:33
Data File: o121718.d

www.airtoxics.com
1-800-985-5955

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 Ketone)	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
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

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Media Certification Report

Canister Number: 6L# 34361w/24hr# 30604
Can#: 99897-34361
Date : 01/20/15 7:27
Data File: o011941.d

www.airtoxics.com
1-800-985-5955

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 Ketone)	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
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

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www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 35174w/24hr# 40665
Can#: 99897-35174
Date : 12/17/14 15:33
Data File: o121716.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 Ketone)	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
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

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Media Certification Report

Canister Number: 6L# 33658w/24hr# 40207
Can#: 99897-33658
Date : 12/17/14 17:32
Data File: o121720.d

www.airtoxics.com
1-800-985-5955

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 Ketone)	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
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

Eurofins Air Toxics, Inc.	Data Review Checklist			Release Date: 12/30/14
Workorder # 1502053A	Form F1.27	Revision #10	Revision date: 12/30/14	Page 1 of 2

S1	S2	S3	S4	D	Section 1 – Spec Out				
					Initials/Instrument/Date	S1: EB MSDV 2/6/15	S2:	S3:	S4:
✓					Daily QC and ICAL met Criteria				
✓					Lumen QC and ICAL evaluation report initialed and in folder				
NA					Manual Integrations included and approved				
✓				✓	Chain of Custody verified for special comments (add comments below)				
✓					Non-standard Target sublist printed				

Profile, analyses, reporting, special notes and unusual circumstances:

J FLAG TO MDL. ✓ OUT IN QC.

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
					Initials/Date	A1: BS 2/10/15	A2:	A3:	A4:
✓				✓	Internal Standard/Surrogate Recoveries, Dilution Factors, Load Volumes, Initial/Final Pressures, and Canister #s Verified				
NA				NA	a) Tedlar Bag IDs verified against COC b) Tedlar Bag ID confirmed with loading sequence/leg of instrument				
NA				NA	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
✓					12/24 Hr clock time & Hold Time met for all samples				
✓				NA	Re-analysis of sample(s) have been evaluated for comparability and/or samples have been checked for trends (Inf/Eff).				
✓				✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds etc)				

Analytical and special notes:

01A - 05A = Full loads, 04A, 05A = Field Dups. RPD ok except Toluene (26% RPD) No Dup T used

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/No		T:	
						Initials/Instrument/ Date	D1: AS 2/10/15	D2:	D3:	D4:
NA						CAR # (if applicable)				
✓						Spectra Verified *(documentation of spectral defense included if applicable)*				
NA						TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
✓						Lab Narrative is correct				
NA						TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	Section 4- Atlas Data Entry	Lumen verified and included in folder	Circle one: Yes/No
		Initials/Date: VB 2/10/15	3rd Tier: *(needed only for DOD or per client request)*	
NA		Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
NA		Manually entered results are checked		
✓		At least one result per sample is verified against Target quant sheets		
✓		Appropriate data qualifier flags are applied		
✓		Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Eurofins Air Toxics, Inc.	Reissued - Data Review Checklist			Release Date 01/29/14
	Form F 1.27	Revision #8	Revision date 01/29/14	Page 2 of 2

Workorder # :	Reason for Reissue: to report additional compounds per client request.
1502053AR1	

W	T	3T	Q	
✓				Reissue Request form Present
NA	✓			Client or QA or Lab contact present with reason for reissue
✓				Review all affected data
✓				Report header has correct R1, R2 etc
✓				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
✓				Date for Reissue in Report Header matches date in Lab Narrative
✓				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
NA				Corrective Action issued - #
✓				The reissued workorder has been approved by QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review * 3rd Tier Report Review is for DoD & Client Specific projects only (Initials/Date)	QA Review (Initials/Date)
NAB 6/26/15	N/A	N/A	N/A

Workorder # :	Reason for Reissue:

W	T	3T	Q	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review * 3rd Tier Report Review is for DoD & Client Specific projects only (Initials/Date)	QA Review (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable