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Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

TO-15

INVENTORY SHEET

Work Order #: 1607235E

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Comments:

Completed by:

Vera Belitsky	Vera Belitsky / Document Control	8/3/16
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 1607235E

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 18 VI
DATE RECEIVED:	07/14/2016	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	07/27/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
08A	B18SS-1	TO-15	4.7 "Hg	15.1 psi
09A	B18SS-2	TO-15	4.7 "Hg	14.8 psi
10A	B18SS-3	TO-15	4.7 "Hg	15.1 psi
11A	B18SS-4	TO-15	5.5 "Hg	15 psi
12A	B18SS-5	TO-15	4.3 "Hg	14.8 psi
13A	B18SS-1D	TO-15	4.5 "Hg	15.1 psi
14A	Lab Blank	TO-15	NA	NA
15A	CCV	TO-15	NA	NA
16A	LCS	TO-15	NA	NA
16AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Mayo

Technical Director

DATE: 07/27/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
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
EPA Method TO-15
Anderson Mulholland & Associates, Inc.
Workorder# 1607235E

Six 1 Liter Summa Canister (100% Certified) samples were received on July 14, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

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
B18SS-1	1607235E-08A	7/11/2016	7/14/2016	NA	8	7/19/2016	NA	Good
B18SS-2	1607235E-09A	7/12/2016	7/14/2016	NA	7	7/19/2016	NA	Good
B18SS-3	1607235E-10A	7/11/2016	7/14/2016	NA	8	7/19/2016	NA	Good
B18SS-4	1607235E-11A	7/12/2016	7/14/2016	NA	8	7/20/2016	NA	Good
B18SS-5	1607235E-12A	7/12/2016	7/14/2016	NA	8	7/20/2016	NA	Good
B18SS-1D	1607235E-13A	7/11/2016	7/14/2016	NA	9	7/20/2016	NA	Good
Lab Blank	1607235E-14A	NA	NA	NA	NA	7/19/2016	NA	Good
CCV	1607235E-15A	NA	NA	NA	NA	7/19/2016	NA	Good
LCS	1607235E-16A	NA	NA	NA	NA	7/19/2016	NA	Good
LCSD	1607235E-16AA	NA	NA	NA	NA	7/19/2016	NA	Good

Sample Results and Raw Data

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

Client Sample ID: B18SS-1

Lab ID#: 1607235E-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.48 J	5.9	2.4 J
Freon 11	1.2	1.9	6.7	10
Ethanol	4.8	16	9.0	30
Acetone	12	26	28	62
2-Propanol	4.8	5.8	12	14
2-Butanone (Methyl Ethyl Ketone)	4.8	5.2	14	15
2,2,4-Trimethylpentane	1.2	0.21 J	5.6	0.99 J
Benzene	1.2	0.36 J	3.8	1.2 J
Toluene	1.2	0.63 J	4.5	2.4 J
m,p-Xylene	1.2	0.34 J	5.2	1.5 J
1,2,4-Trimethylbenzene	1.2	0.45 J	5.9	2.2 J
Naphthalene	2.4	0.15 J	12	0.77 J

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Client Sample ID: B18SS-1

Lab ID#: 1607235E-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071920**	**Date of Collection:**	**7/11/16 6:00:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**7/19/16 10:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.48 J	5.9	2.4 J
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	1.9	6.7	10
Ethanol	4.8	16	9.0	30
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	26	28	62
2-Propanol	4.8	5.8	12	14
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	5.2	14	15
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	0.21 J	5.6	0.99 J
Benzene	1.2	0.36 J	3.8	1.2 J
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	0.63 J	4.5	2.4 J
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected

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Client Sample ID: B18SS-1

Lab ID#: 1607235E-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071920**	**Date of Collection:**	**7/11/16 6:00:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**7/19/16 10:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	0.34 J	5.2	1.5 J
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	0.45 J	5.9	2.2 J
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Naphthalene	2.4	0.15 J	12	0.77 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	91	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071920.d
Lab Smp Id: 1607235E-08A
Inj Date : 19-JUL-2016 22:44
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 36376
Misc Info : 4.7 Hg->15.1 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 22-Jul-2016 13:56 snguyen Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 4
Dil Factor: 2.40000
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.448	5.441 (1.000)	130	83554	25.0000		80.00- 120.00	100.00
5.448	5.441 (1.000)	128	67245			49.40- 109.40	80.48
5.441	5.434 (1.000)	49	196752			153.31- 213.31	235.48
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.330 (1.000)	114	330996	25.0000		80.00- 120.00	100.00
6.337	6.330 (1.000)	88	44268			0.00- 43.38	13.37
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	308411	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	162156			21.26- 81.26	52.58
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.097)	65	141670	27.6054	27.605	80.00- 120.00	100.00
5.979	5.971 (1.097)	67	65112			25.58- 85.58	45.96
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.191)	98	344416	25.7803	25.780	80.00- 120.00	100.00
7.547	7.547 (1.191)	70	36437			0.00- 40.37	10.58

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.191)   100    224066                    38.69-  98.69    65.06
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.753   9.754 (1.112)   174    229284 22.7352   22.735  80.00- 120.00   100.00
  9.753   9.754 (1.112)    95    219429                   59.95- 119.95    95.70
  9.753   9.754 (1.112)   176    216051                   67.47- 127.47    94.23
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.507   1.507 (0.276)    85      1937 0.20148   0.4836  80.00- 120.00   100.00(a)
  1.520   1.507 (0.279)    87       308                     2.43-  62.43    15.95
-------------------------------------------------------------------------------
   35 Freon 11                                      CAS #: 75-69-4
  2.569   2.562 (0.471)   101      7889 0.78256    1.878  80.00- 120.00   100.00
  2.569   2.562 (0.471)   103      4576                   35.01-  95.01    58.01
-------------------------------------------------------------------------------
   42 Ethanol                                       CAS #: 64-17-5
  2.884   2.870 (0.529)    45     12849 6.61855   15.884  80.00- 120.00   100.00
  2.891   2.870 (0.531)    43      1596                    0.00-  51.15    12.42
  2.884   2.870 (0.529)    46      3784                    7.97-  67.97    29.45
-------------------------------------------------------------------------------
   52 Acetone                                       CAS #: 67-64-1
  3.386   3.371 (0.621)    58     24366 10.8390   26.014  80.00- 120.00   100.00
  3.386   3.371 (0.621)    43     98375                  353.98- 413.98   403.73
-------------------------------------------------------------------------------
   57 2-Propanol                                    CAS #: 67-63-0
  3.550   3.536 (0.652)    45     23499 2.40904    5.782  80.00- 120.00   100.00
  3.543   3.543 (0.650)    43      6175                    0.00-  50.28    26.28
  3.543   3.543 (0.650)    59       257                    0.00-  33.15     1.10
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.241   5.234 (0.962)    72      3646 2.16294    5.191  80.00- 120.00   100.00
  5.241   5.234 (0.962)    43     32617                  611.89- 671.89   894.46
  5.241   5.234 (0.962)    57      2166                   17.72-  77.72    59.40
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.950   5.950 (1.092)    57      2222 0.08829   0.2119  80.00- 120.00   100.00(a)
  5.957   5.950 (1.093)    56       803                    2.51-  62.51    36.13
  5.921   5.950 (1.087)    41      1853                    0.00-  58.92    83.37
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.964   5.964 (0.941)    78      1537 0.15065   0.3616  80.00- 120.00   100.00(a)
  5.957   5.964 (0.940)    77       433                    0.00-  54.04    28.17
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.605   7.605 (1.200)    91      3679 0.26202   0.6288  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
147 Toluene (continued)							
7.605	7.605 (1.200)	92	1572			28.28- 88.28	42.73
169 m,p-Xylene						CAS #: 108-38-3	
8.951	8.951 (1.020)	106	1096	0.14271	0.3425	80.00- 120.00	100.00(a)
8.951	8.951 (1.020)	91	2961			167.63- 227.63	270.14
196 1,2,4-Trimethylbenzene						CAS #: 95-63-6	
10.384	10.391 (1.184)	120	1694	0.18940	0.4546	80.00- 120.00	100.00(a)
10.384	10.391 (1.184)	105	3110			186.10- 246.10	183.57
228 Naphthalene						CAS #: 91-20-3	
12.740	12.741 (1.452)	128	1518	0.06151	0.1476	80.00- 120.00	100.00(a)
12.740	12.741 (1.452)	127	410			0.00- 43.45	27.06

QC Flag Legend

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

Report Date: 27-Jul-2016 15:58

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071920.d
Lab Smp Id: 1607235E-08A
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.7 Hg->15.1 psi

Calibration Date: 19-JUL-2016
Calibration Time: 11:28

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	83554	-12.29
123 1,4-Difluorobenze	379135	227481	530789	330996	-12.70
163 Chlorobenzene-d5	348612	209167	488057	308411	-11.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	0.00

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

Report Date: 27-Jul-2016 15:58

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 19jul16
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1607235E-08A
Level: LOW Operator: gh
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.7 Hg->15.1 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.605	110.42	70-130
$ 146 Toluene-d8	25.000	25.780	103.12	70-130
$ 177 4-Bromofluorobenze	25.000	22.735	90.94	70-130

Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

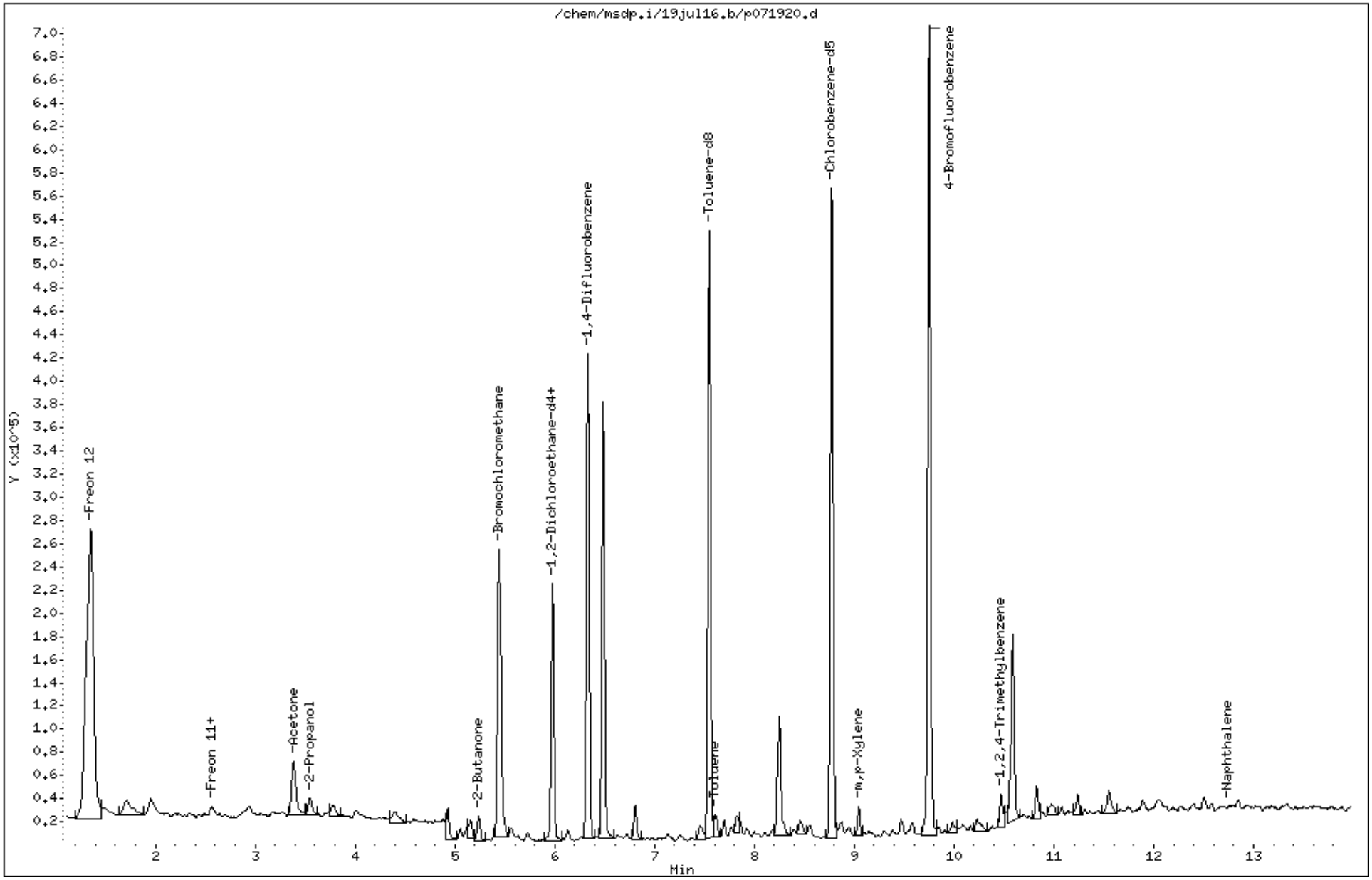
Instrument: msdp.i

Sample Info: 200ml 36376

Operator: gh

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

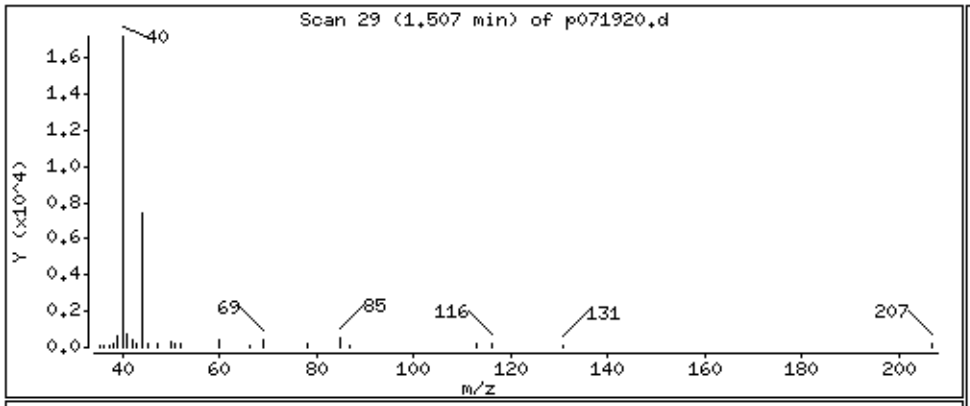
Operator: gh

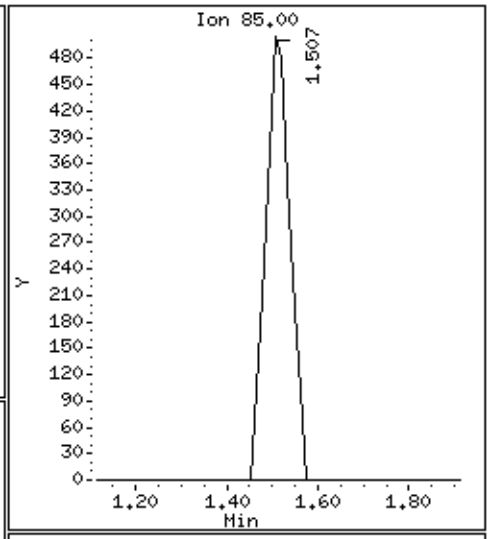
Column phase: RTX-624

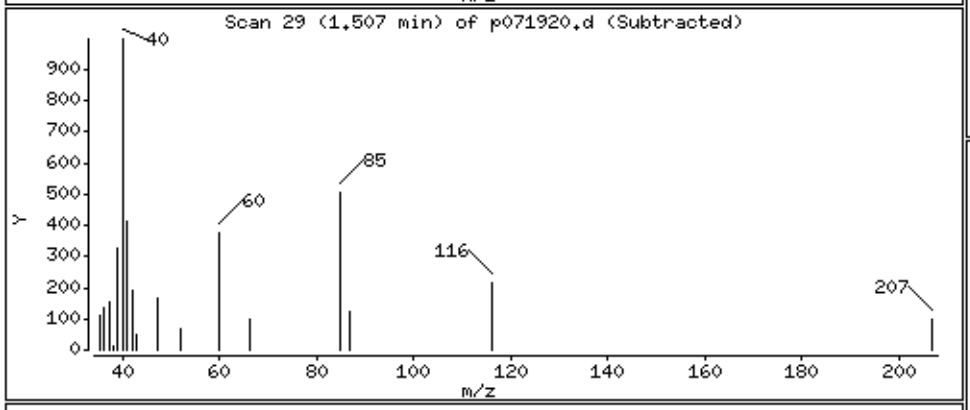
Column diameter: 0.25

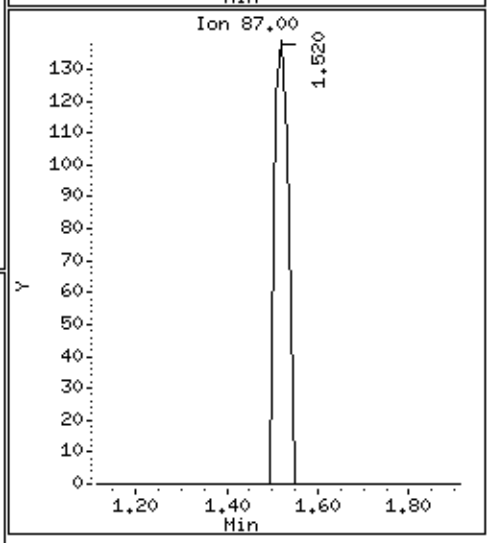
11 Freon 12

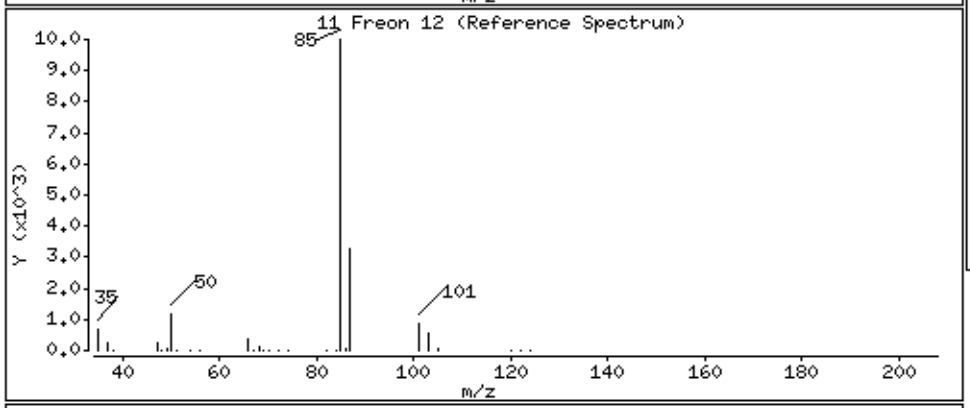
Concentration: 0.4836 PPBV

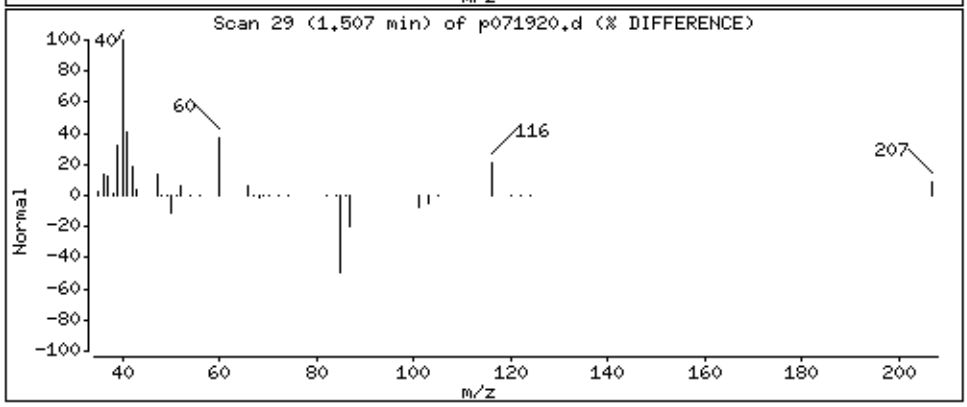












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

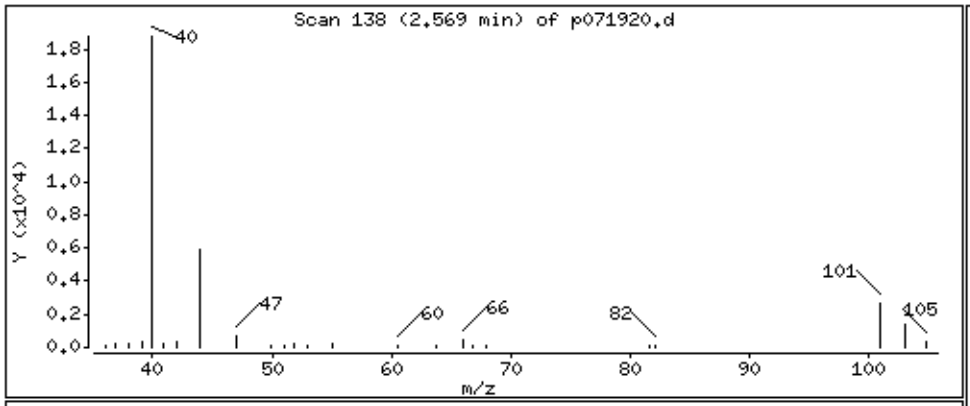
Operator: gh

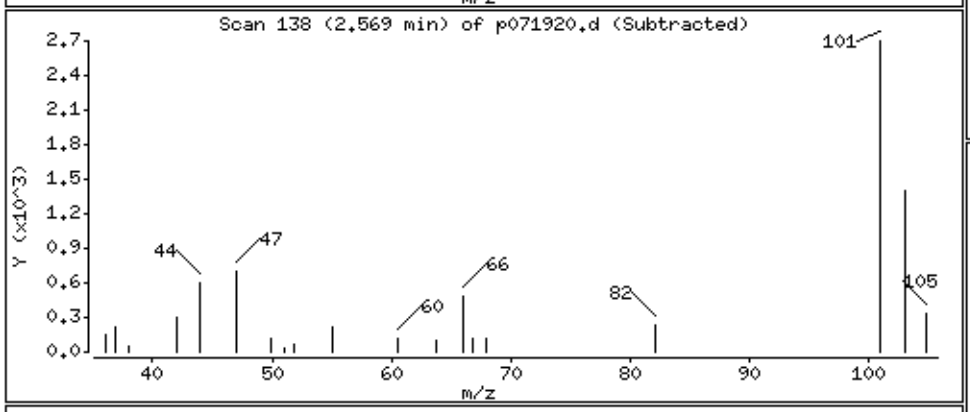
Column phase: RTX-624

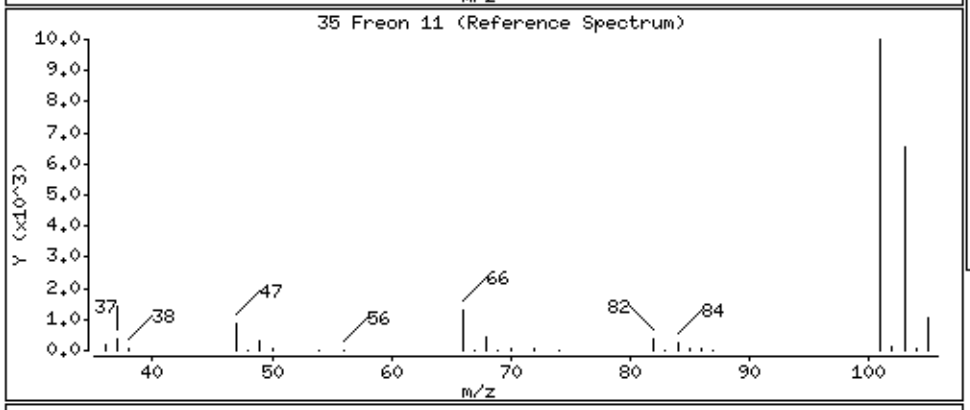
Column diameter: 0.25

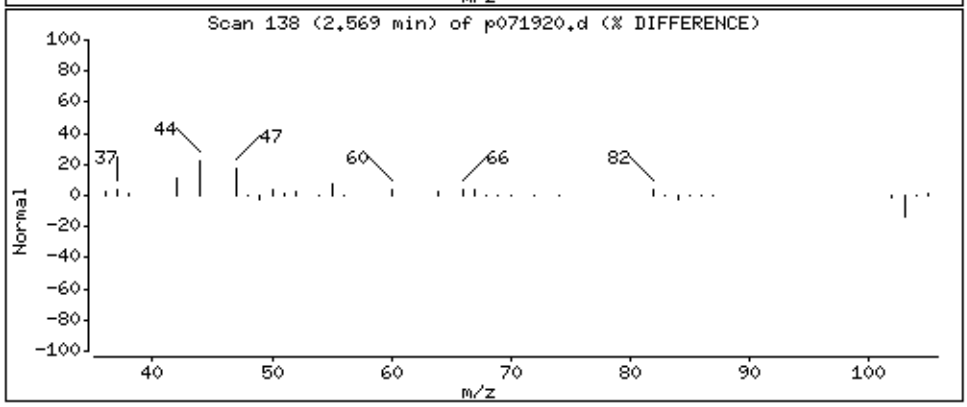
35 Freon 11

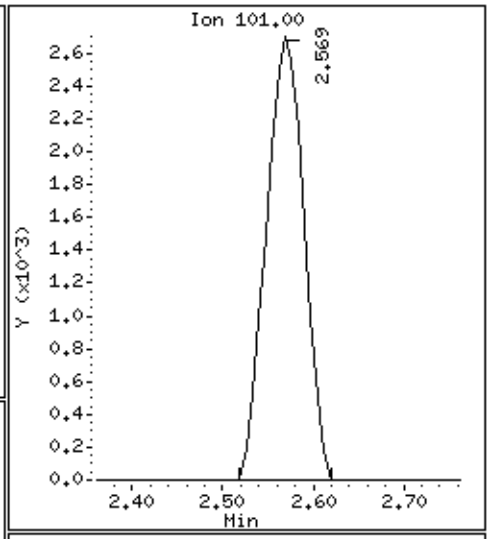
Concentration: 1.878 PPBV

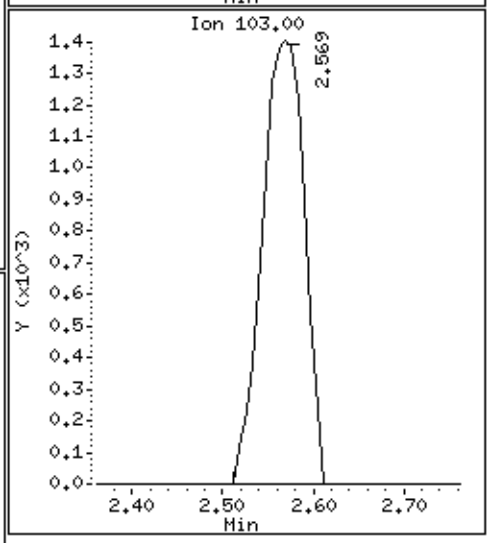












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

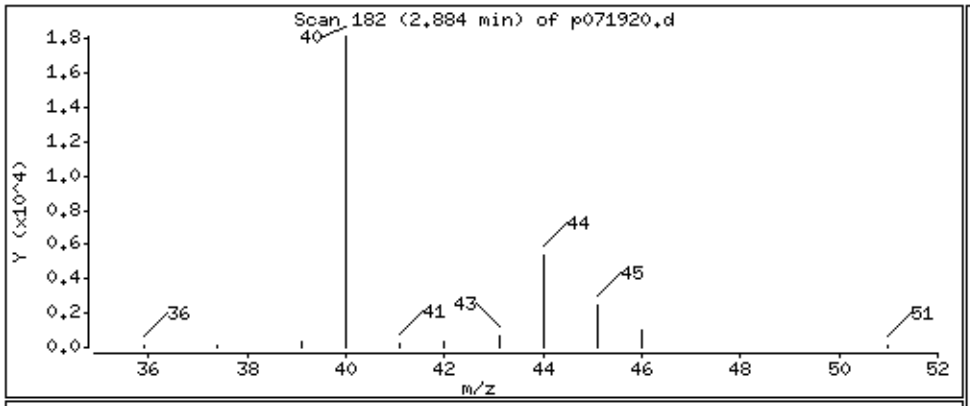
Operator: gh

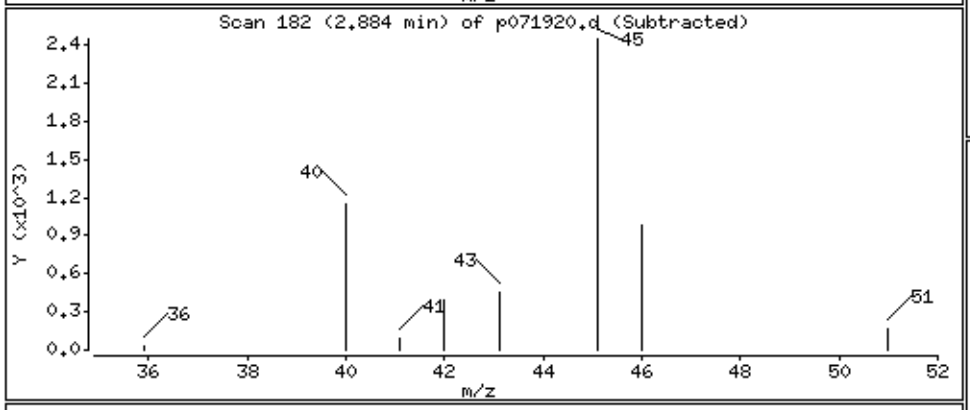
Column phase: RTX-624

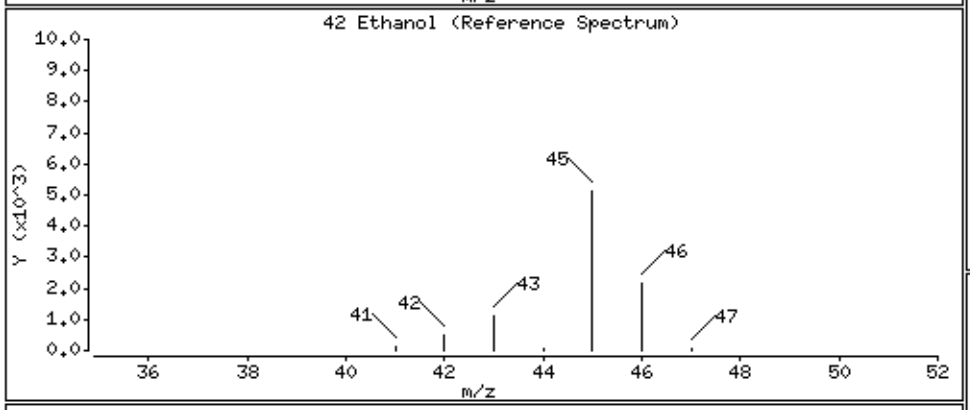
Column diameter: 0.25

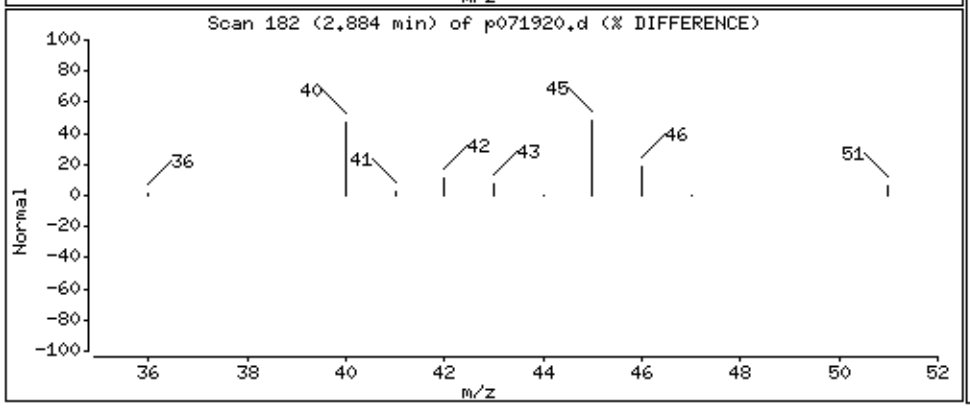
42 Ethanol

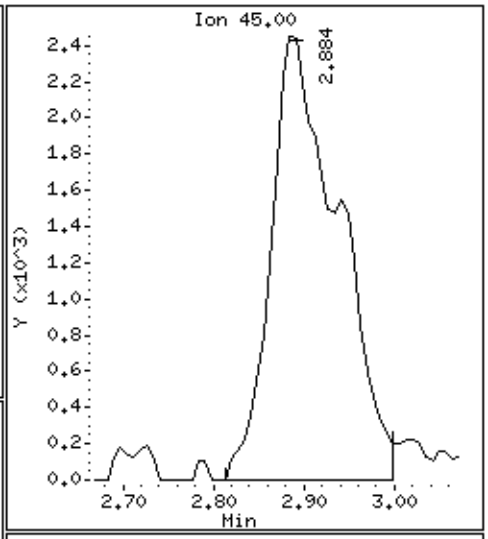
Concentration: 15.884 PPBV

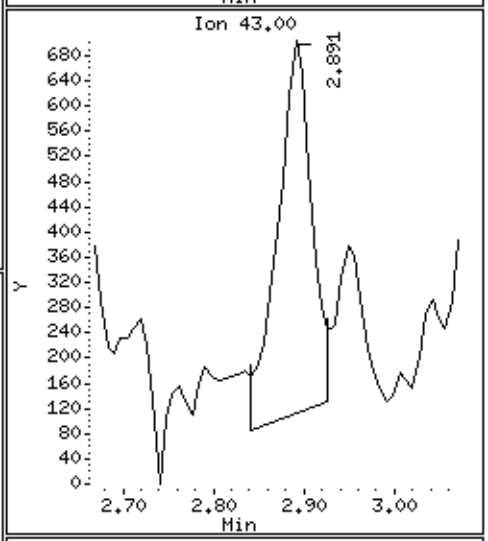


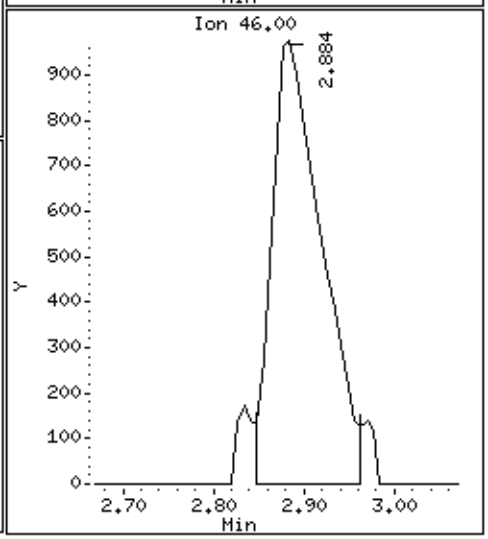












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

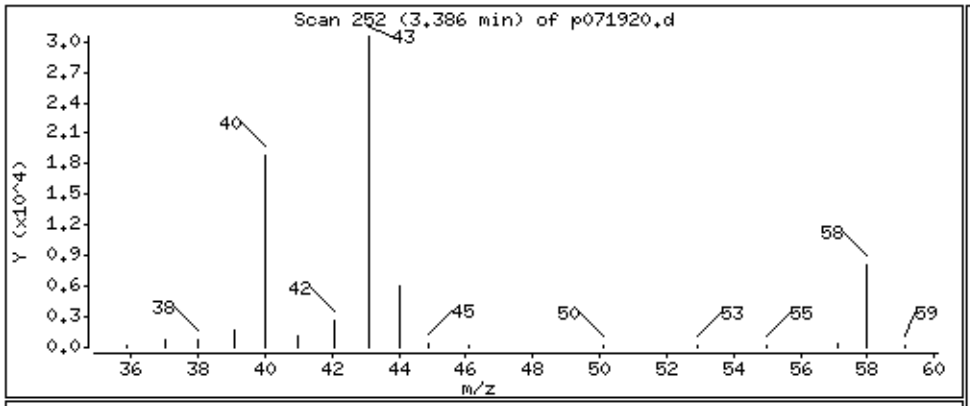
Operator: gh

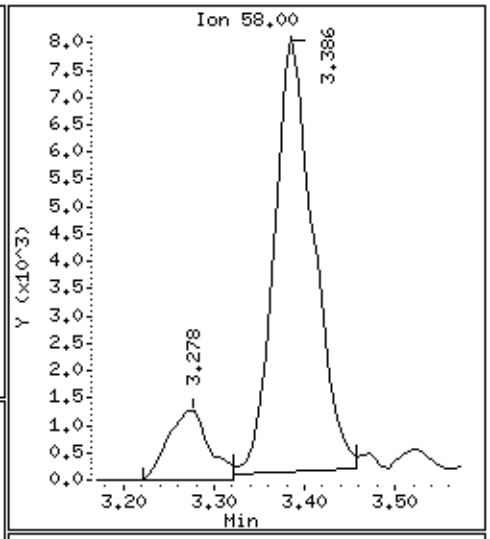
Column phase: RTX-624

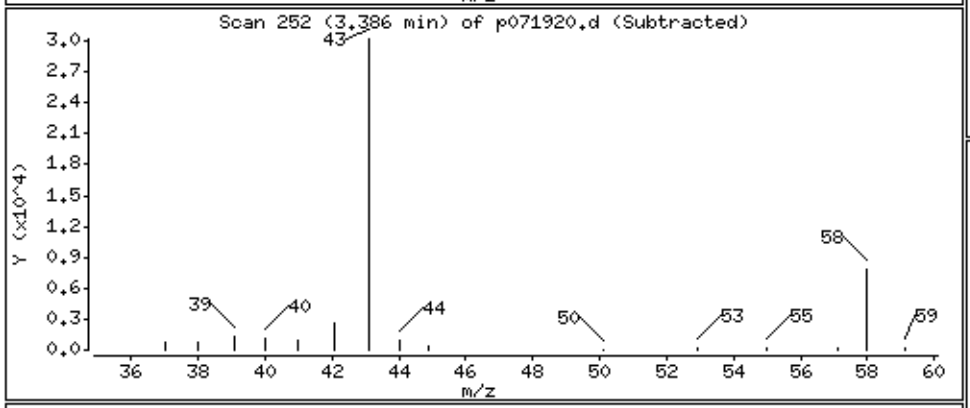
Column diameter: 0.25

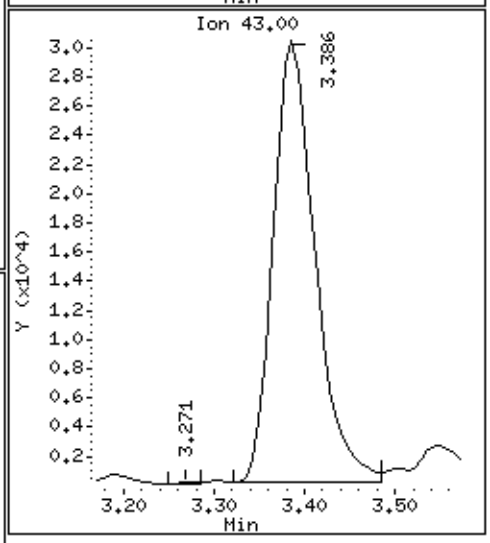
52 Acetone

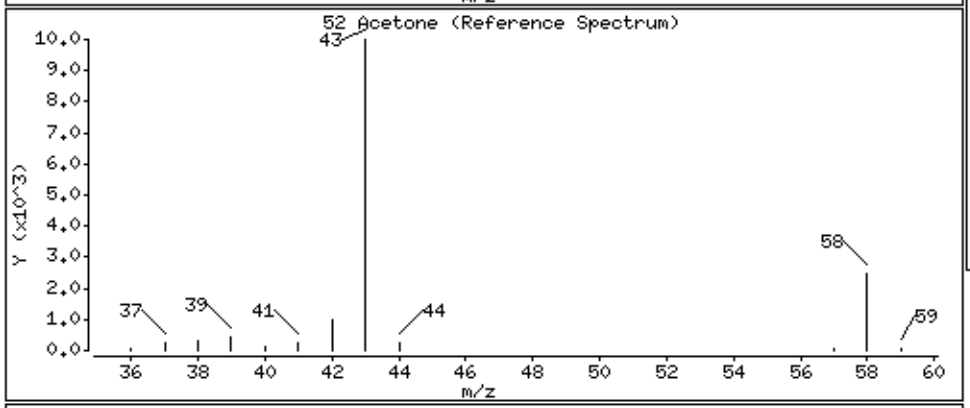
Concentration: 26.014 PPBV

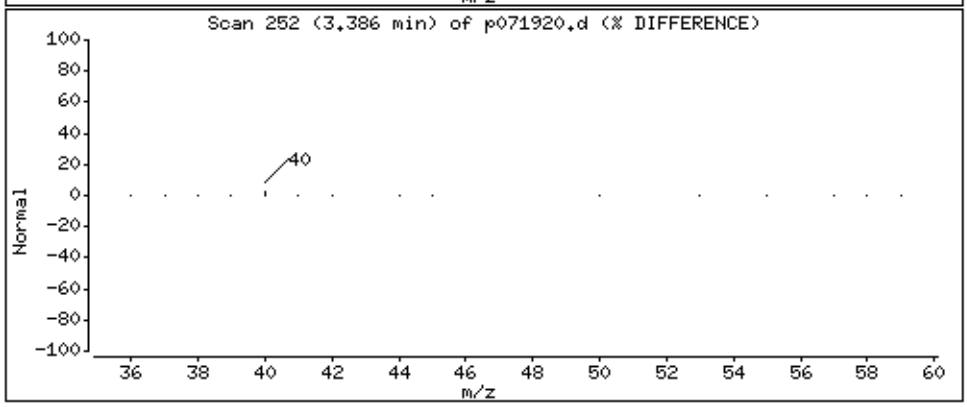












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

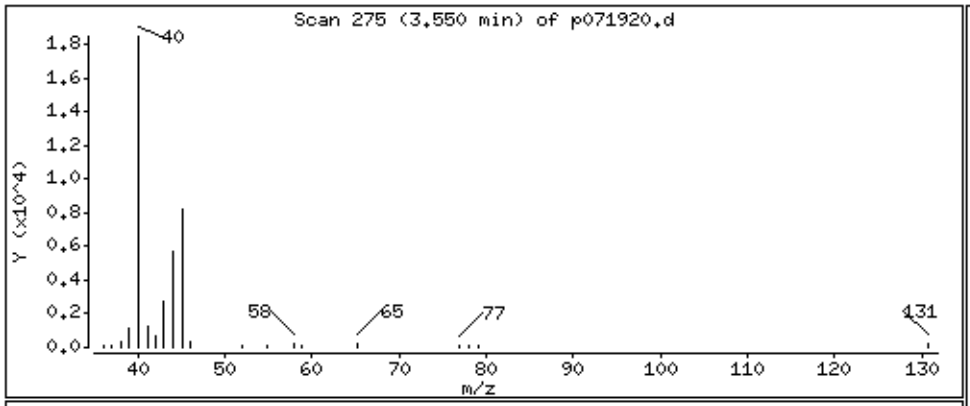
Operator: gh

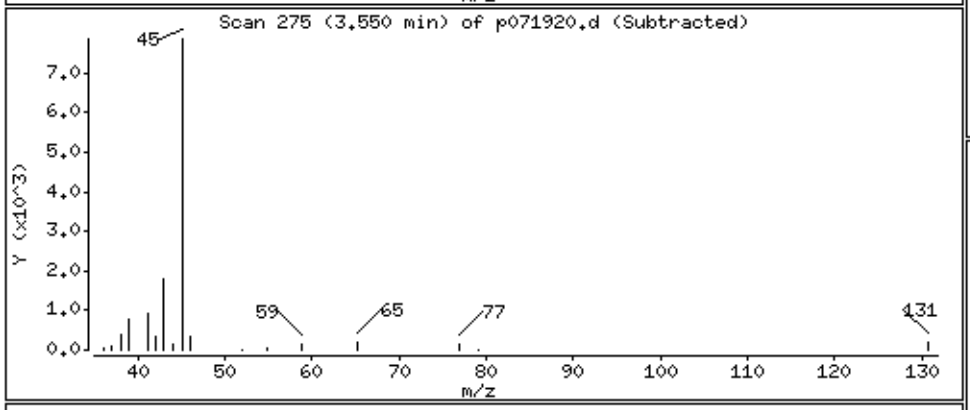
Column phase: RTX-624

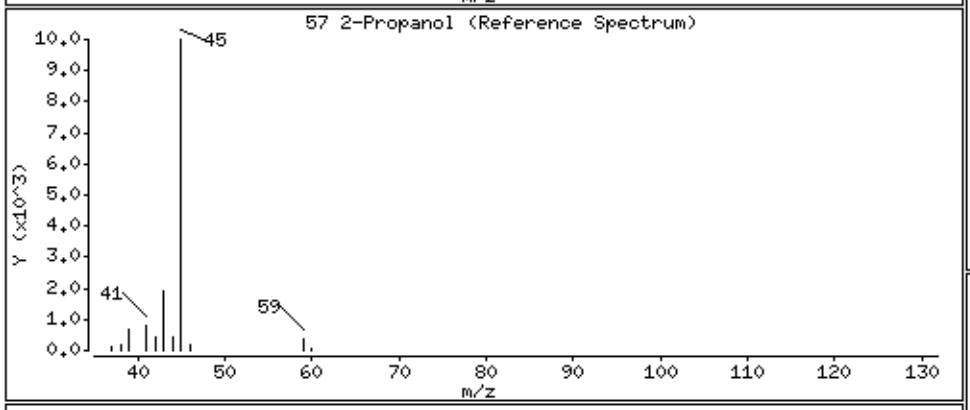
Column diameter: 0.25

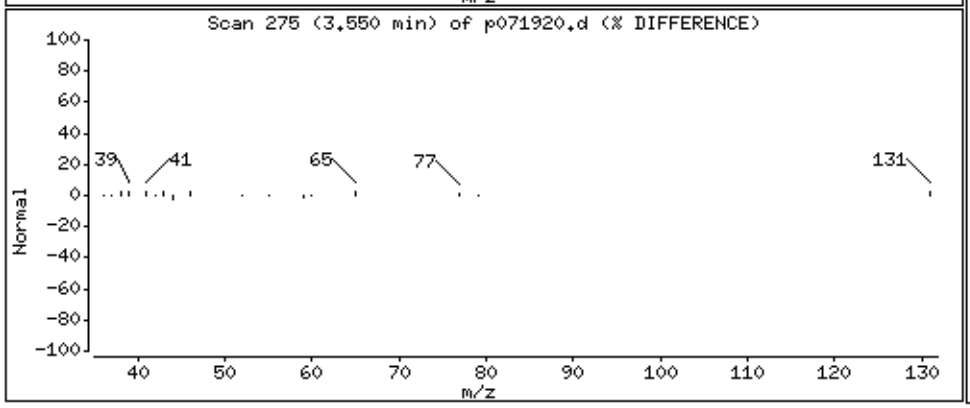
57 2-Propanol

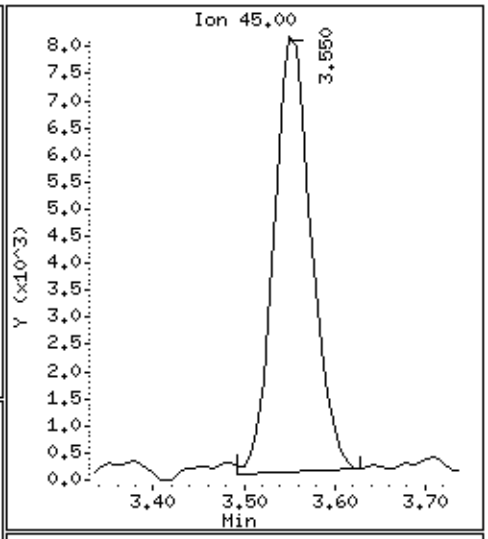
Concentration: 5.782 PPBV

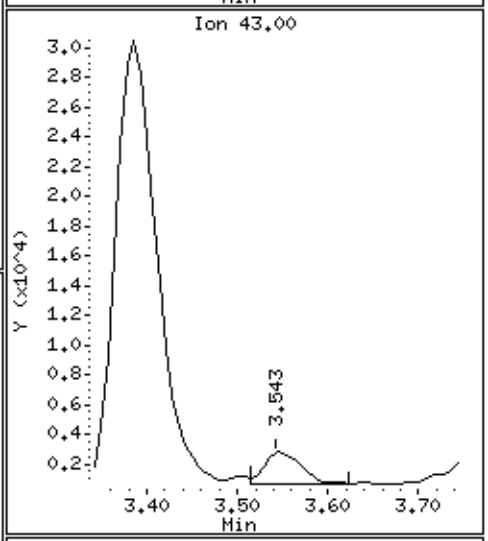


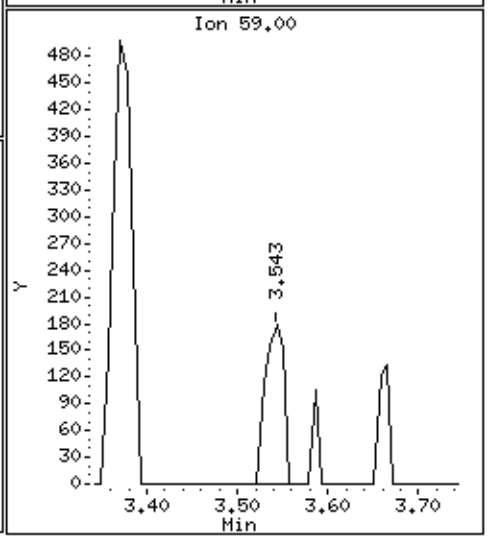












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

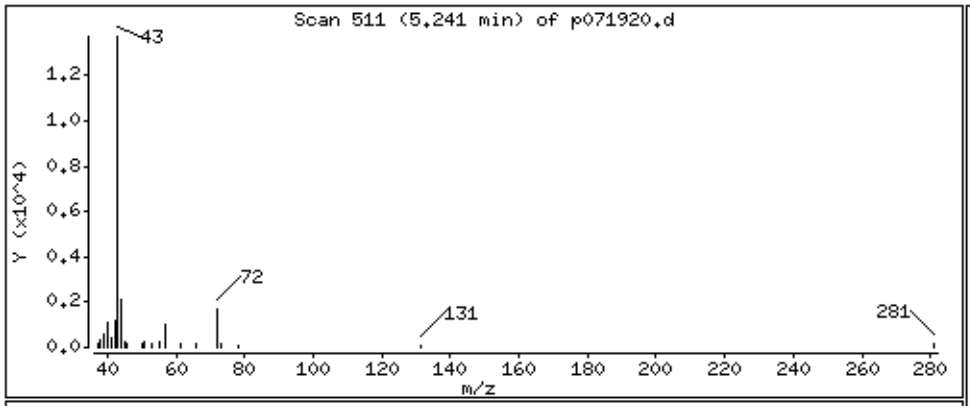
Operator: gh

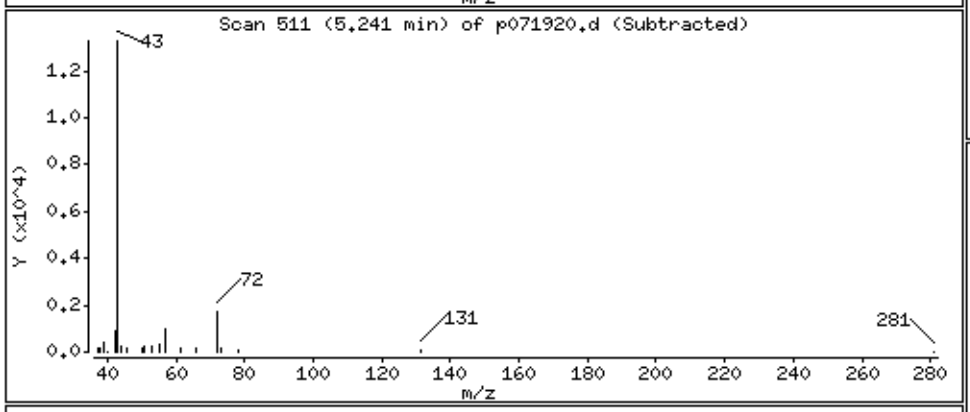
Column phase: RTX-624

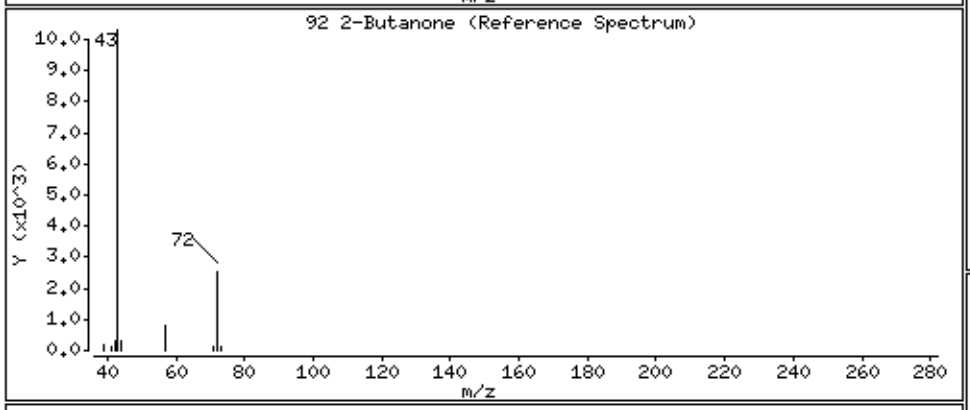
Column diameter: 0.25

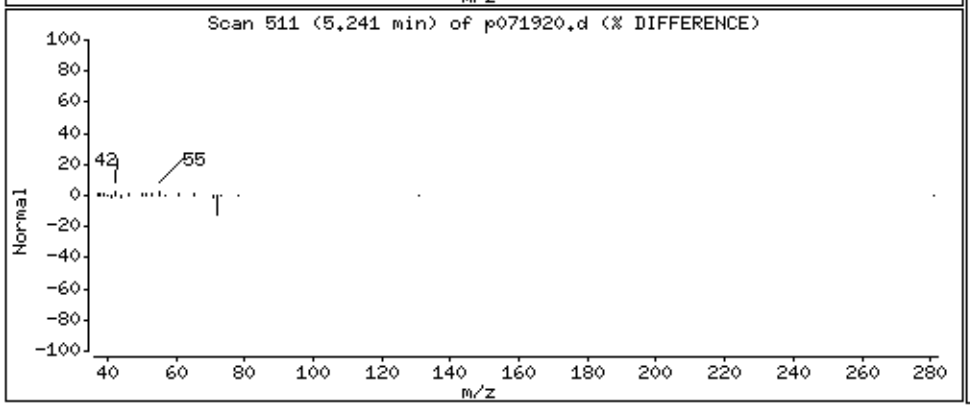
92 2-Butanone

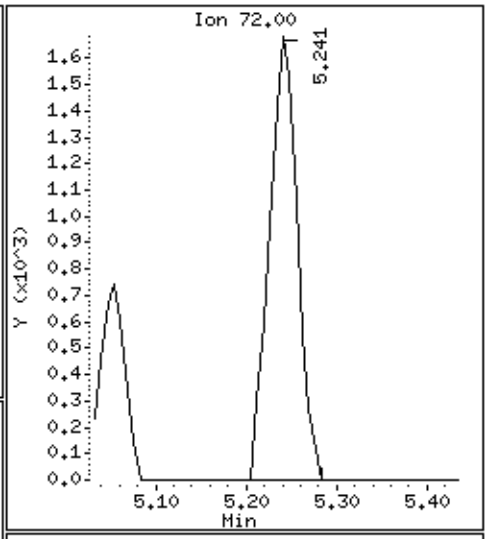
Concentration: 5.191 PPBV

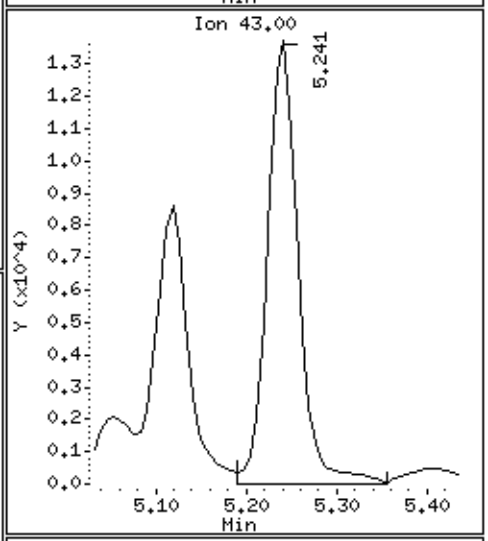


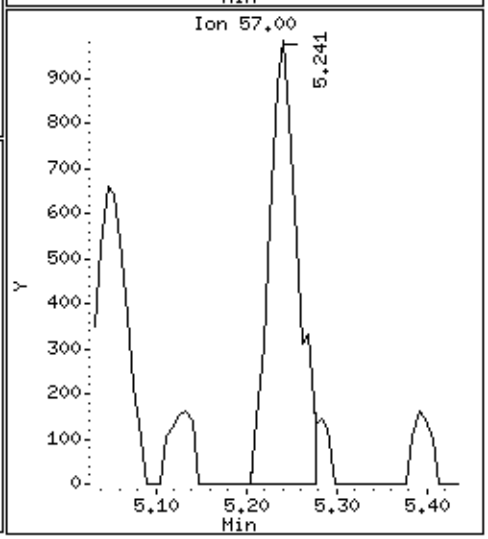












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

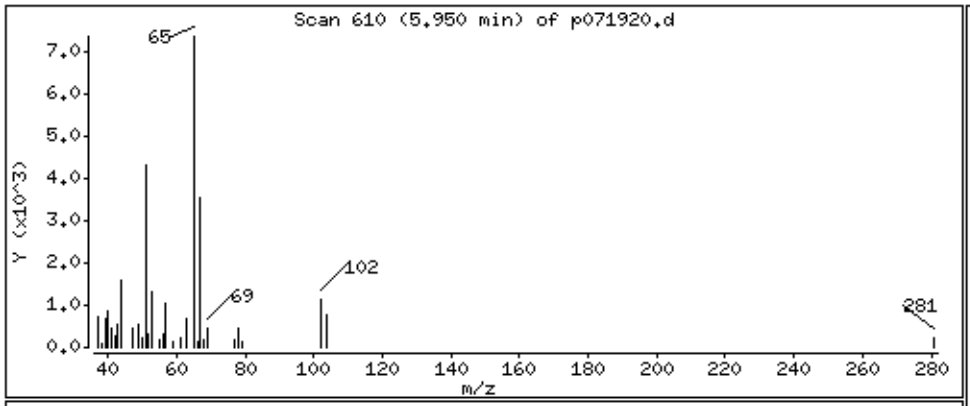
Operator: gh

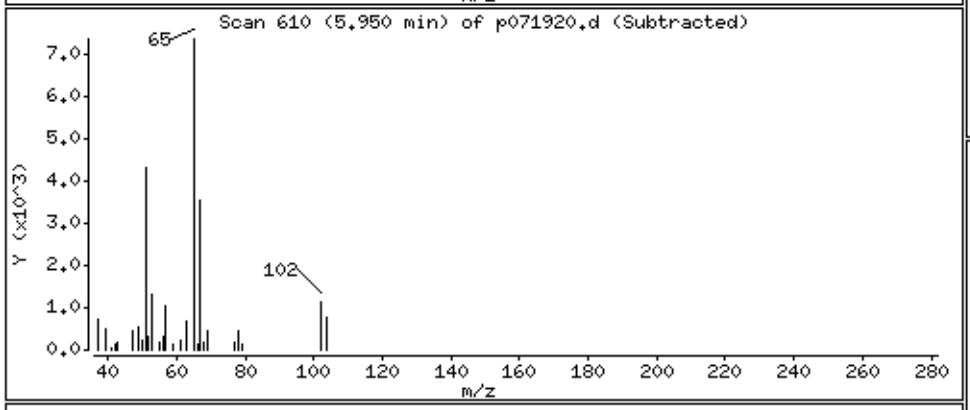
Column phase: RTX-624

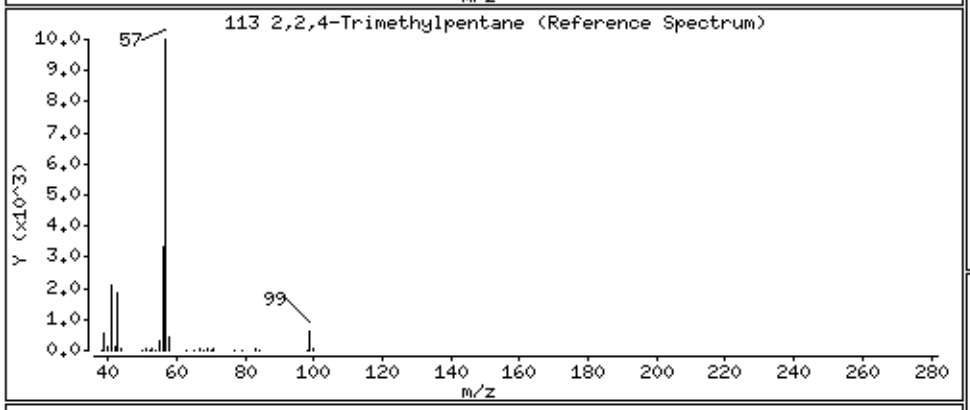
Column diameter: 0.25

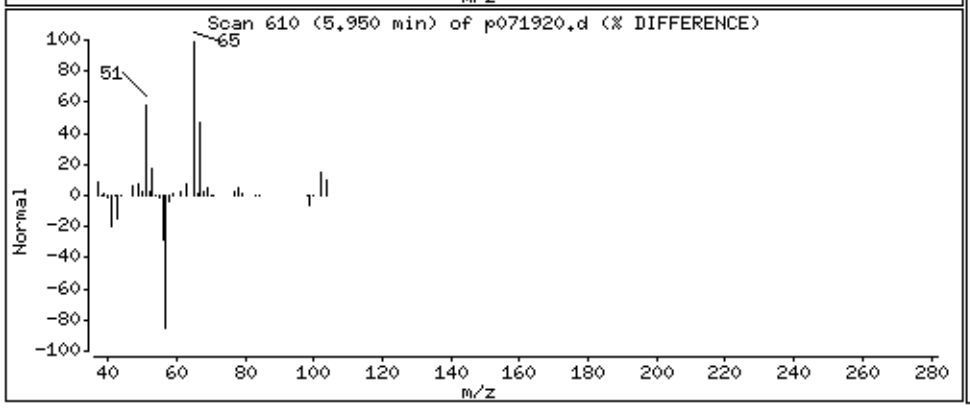
113 2,2,4-Trimethylpentane

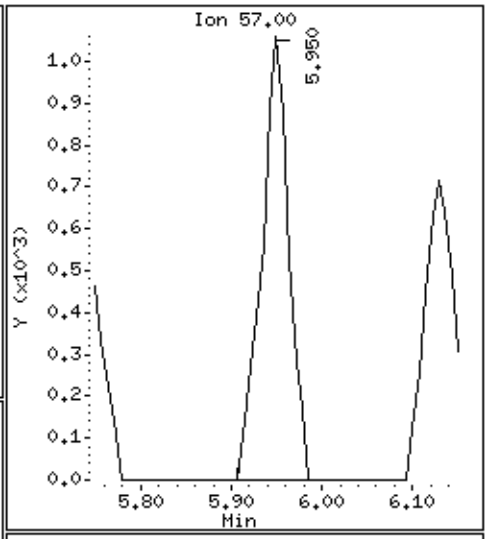
Concentration: 0.2119 PPBV

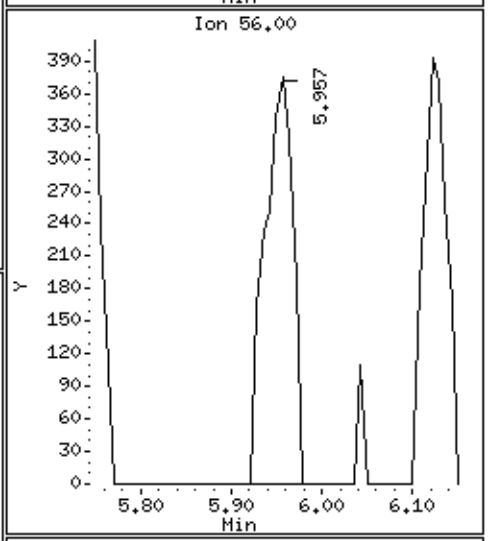


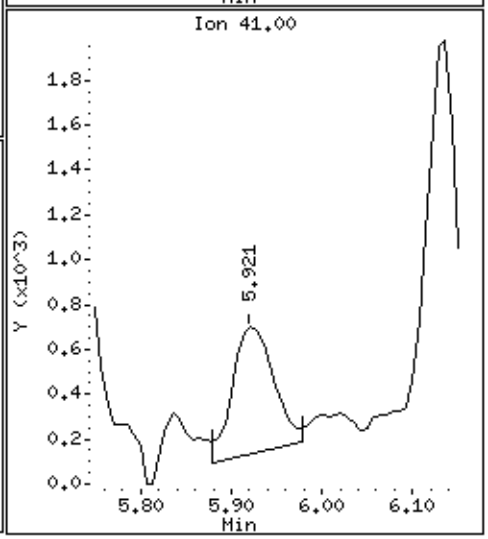












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

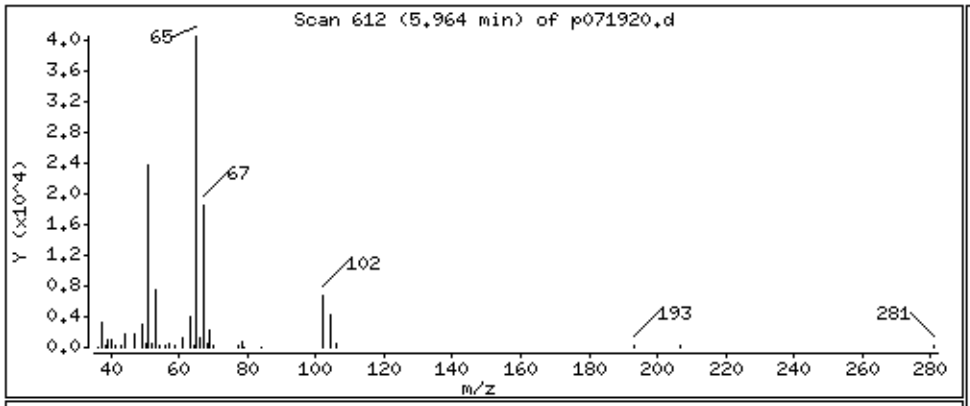
Operator: gh

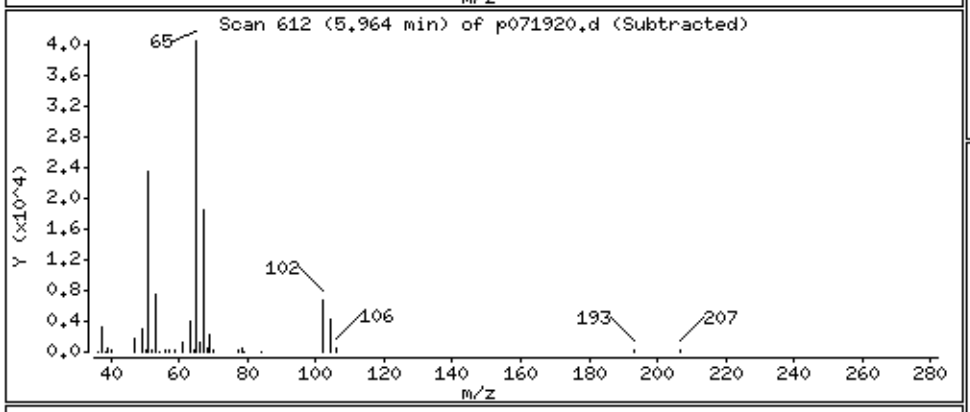
Column phase: RTX-624

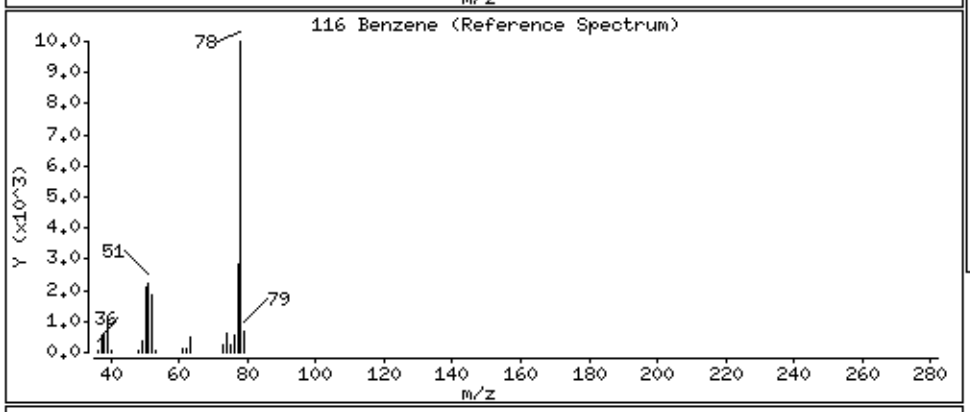
Column diameter: 0.25

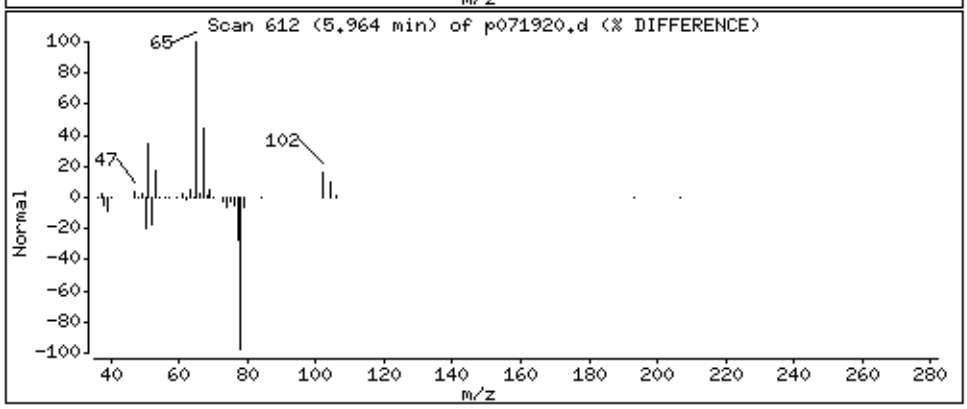
116 Benzene

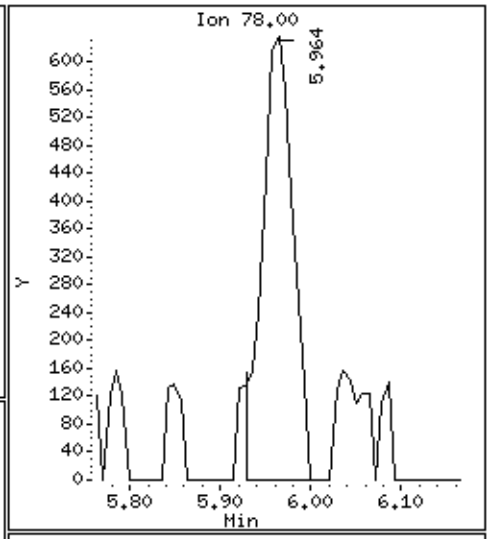
Concentration: 0.3616 PPBV

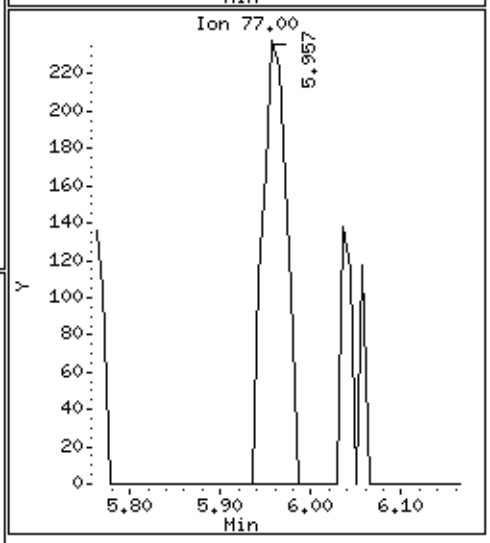












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

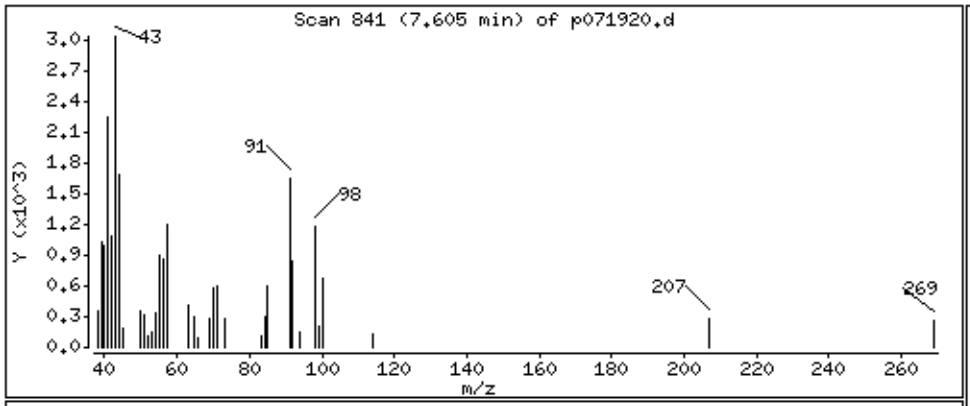
Operator: gh

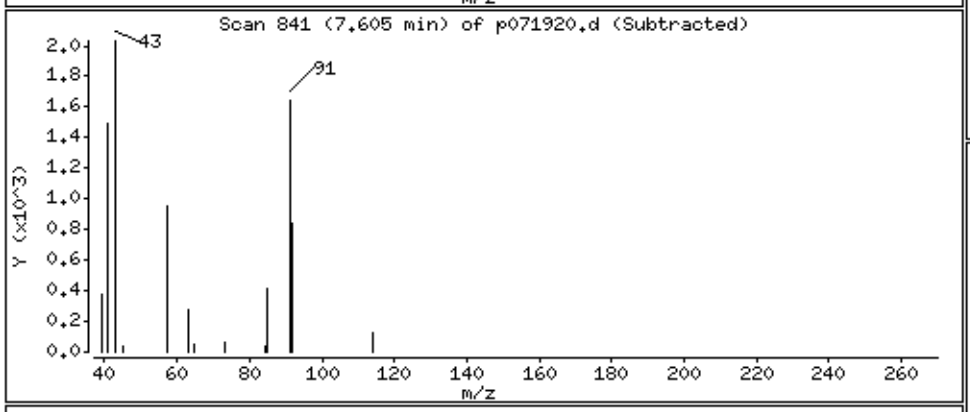
Column phase: RTX-624

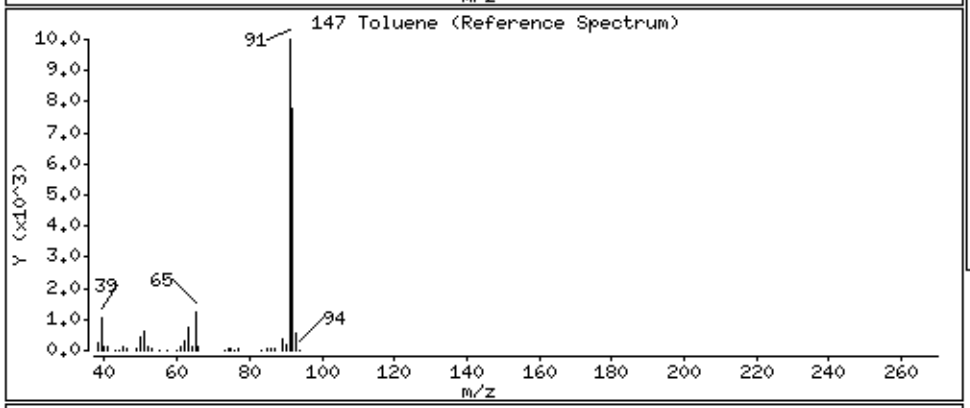
Column diameter: 0.25

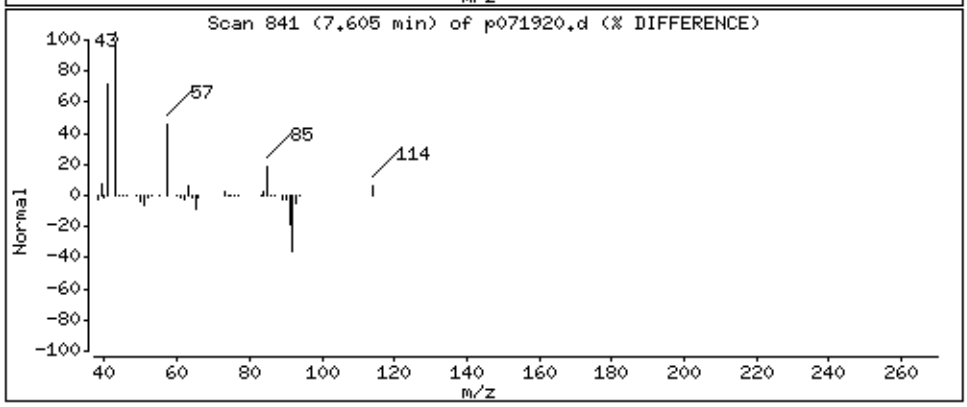
147 Toluene

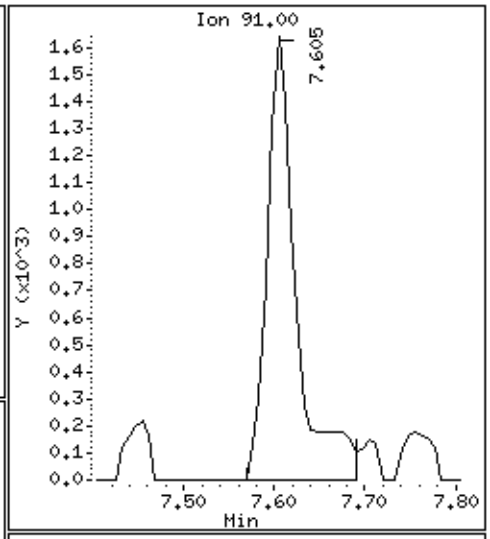
Concentration: 0.6288 PPBV

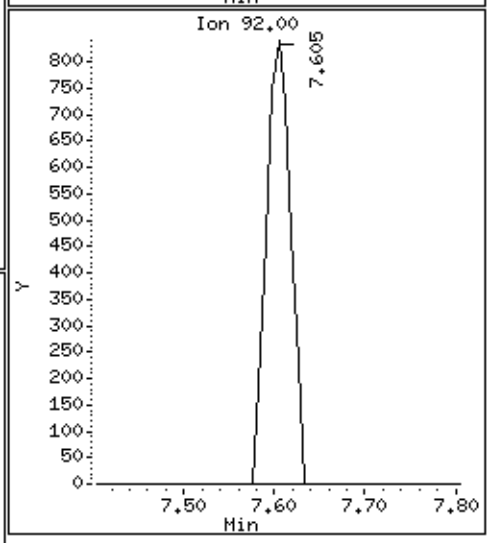












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

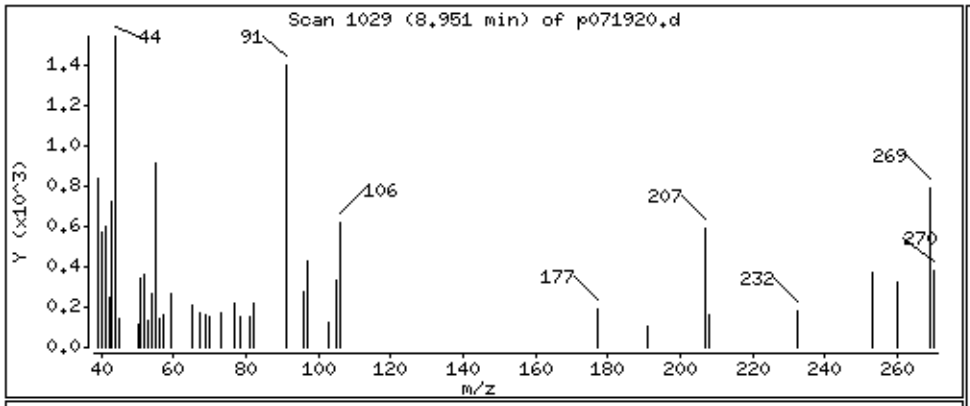
Operator: gh

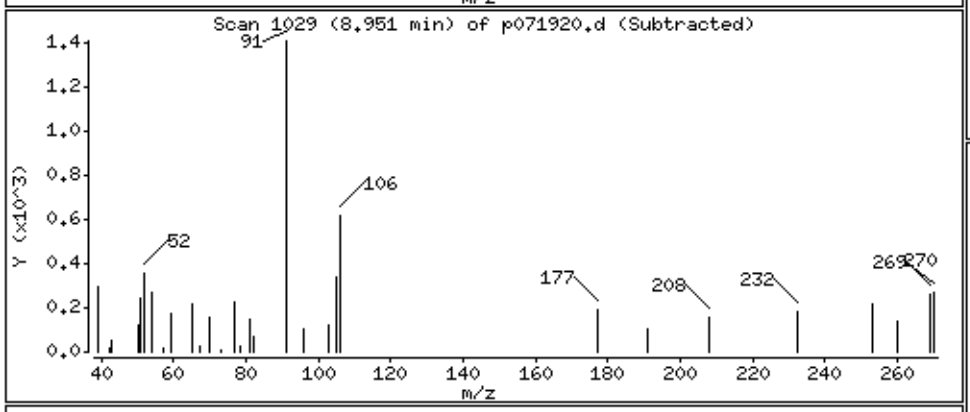
Column phase: RTX-624

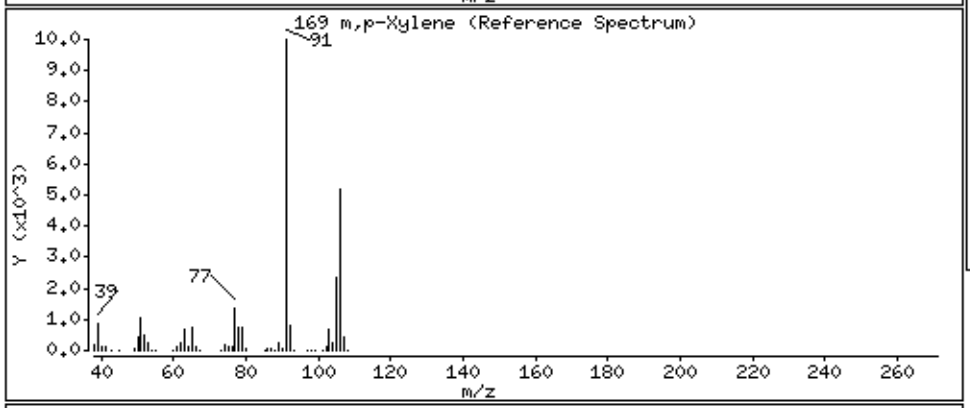
Column diameter: 0.25

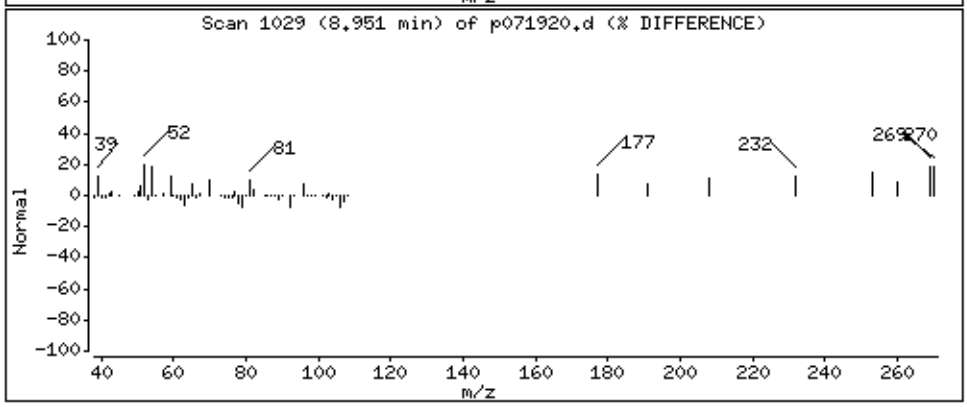
169 m,p-Xylene

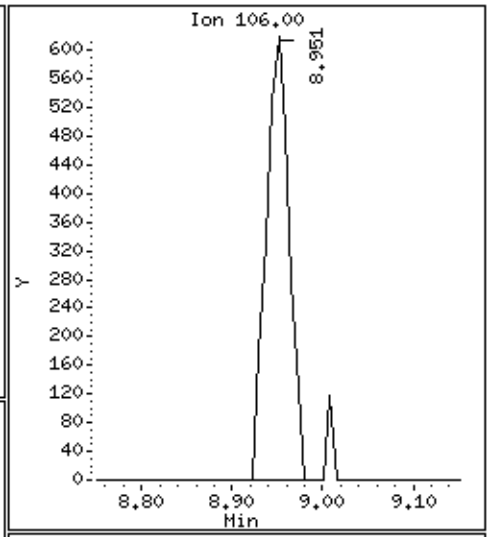
Concentration: 0.3425 PPBV

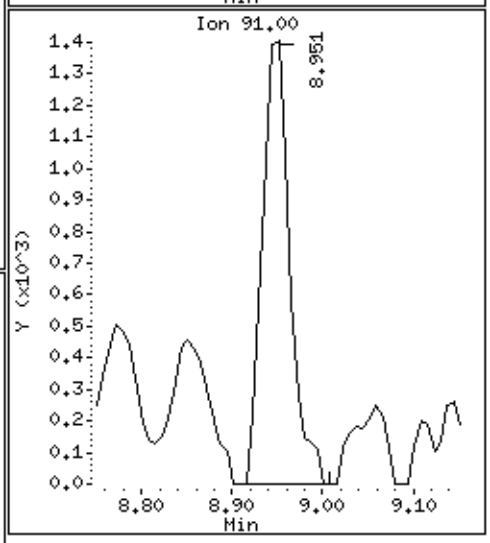












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

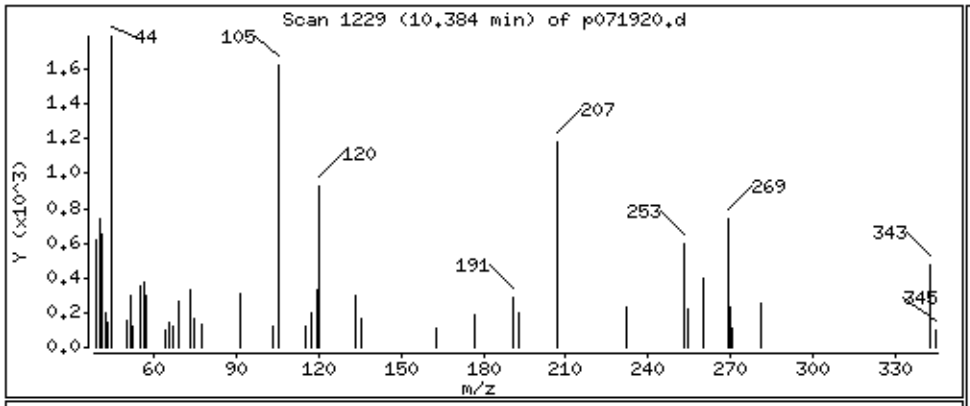
Operator: gh

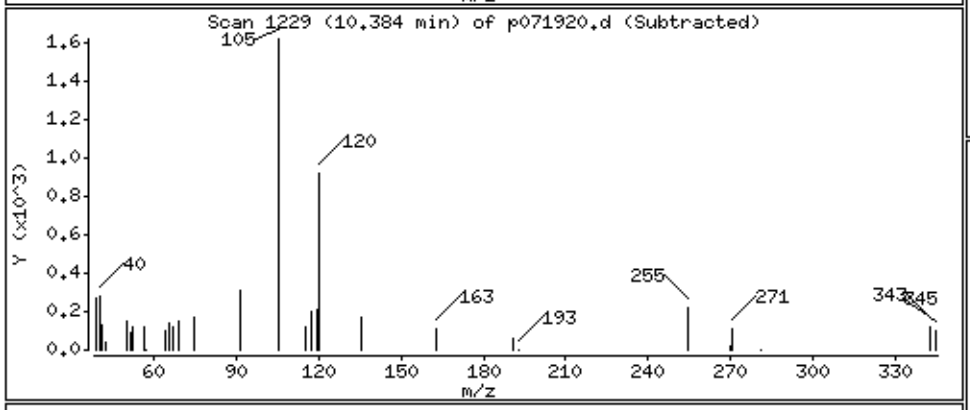
Column phase: RTX-624

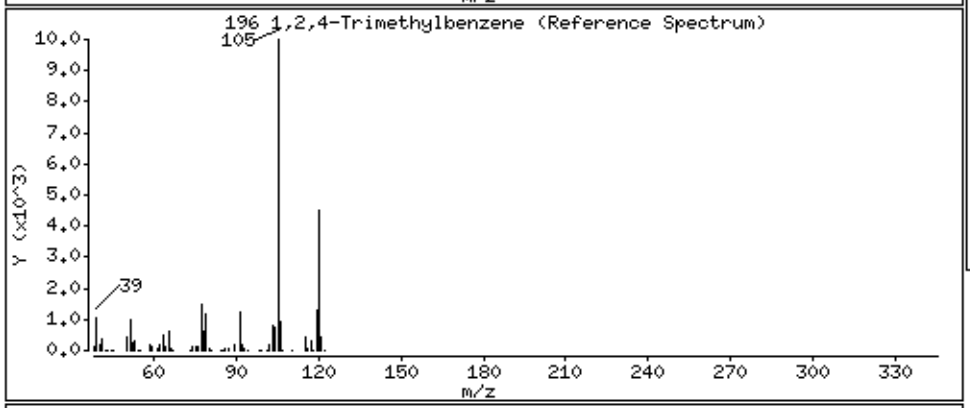
Column diameter: 0.25

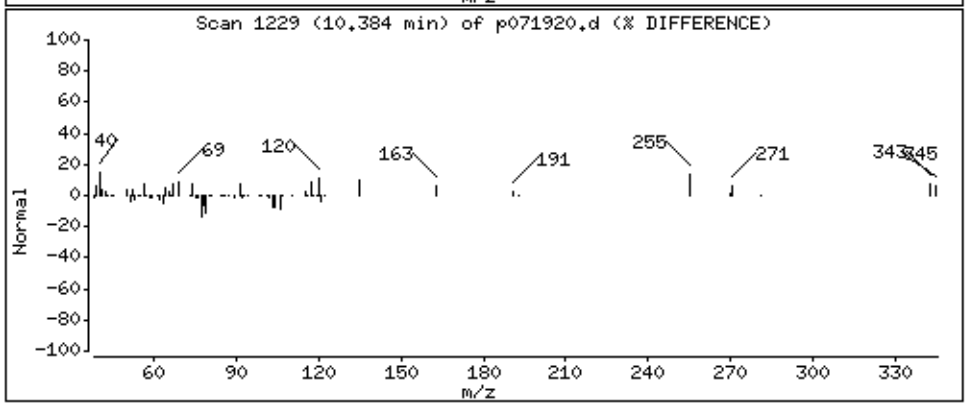
196 1,2,4-Trimethylbenzene

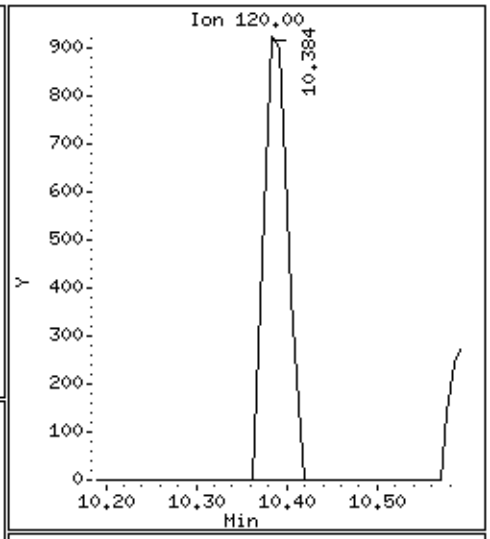
Concentration: 0.4546 PPBV

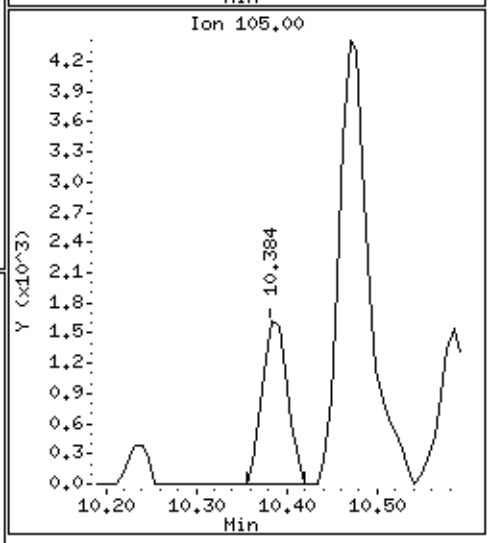












Data File: /chem/msdp.i/19jul16.b/p071920.d

Date : 19-JUL-2016 22:44

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36376

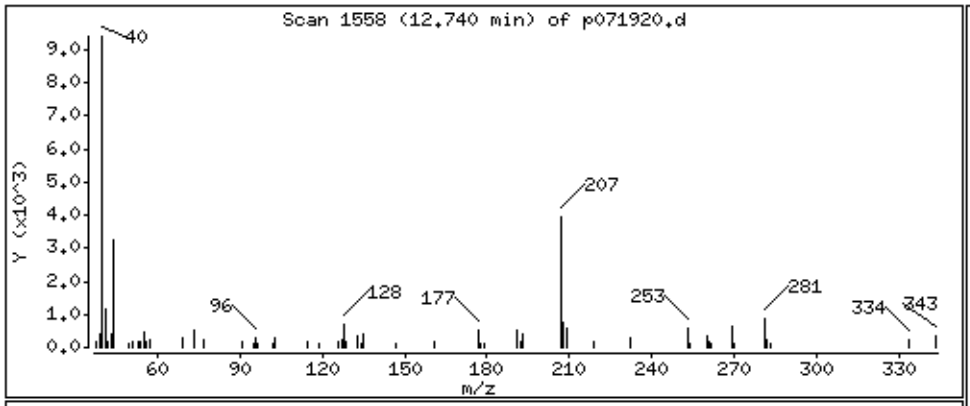
Operator: gh

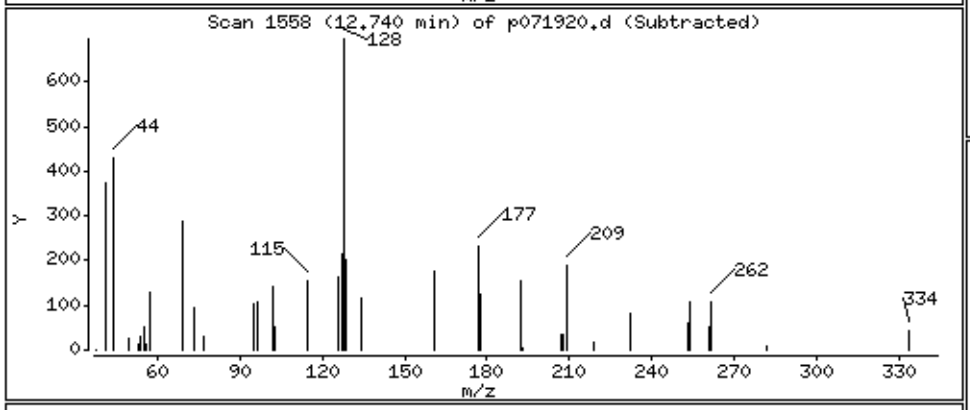
Column phase: RTX-624

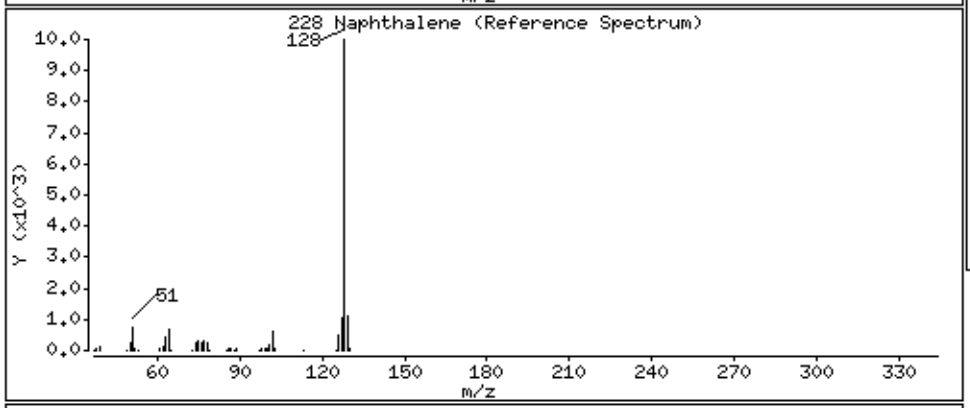
Column diameter: 0.25

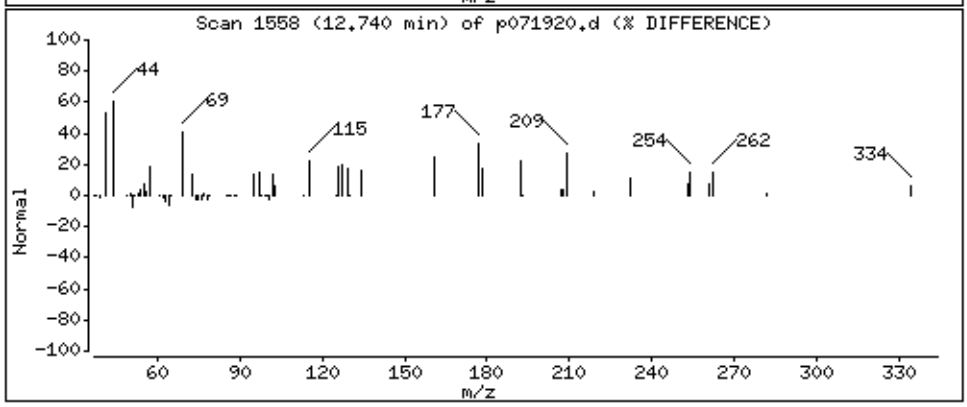
228 Naphthalene

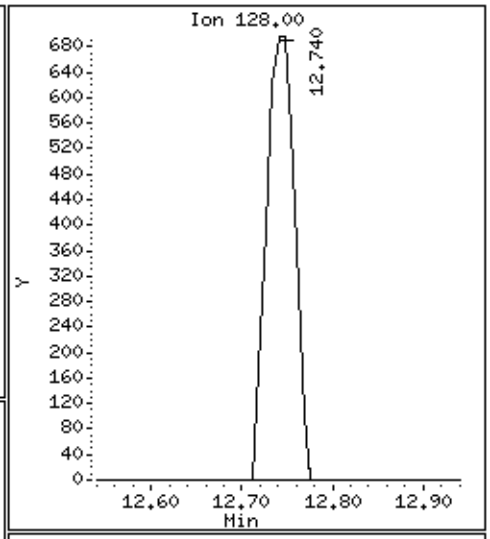
Concentration: 0.1476 PPBV

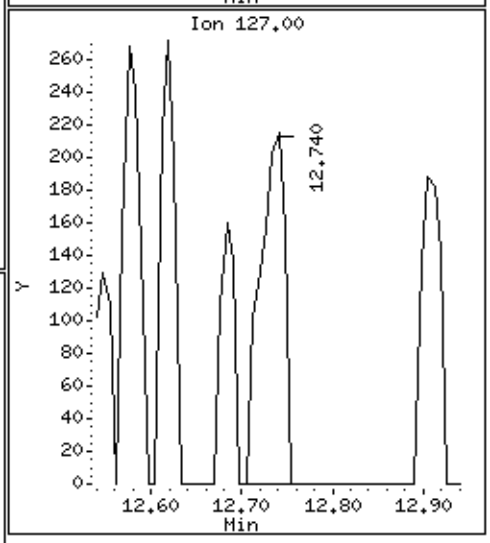












eurofins | Air Toxics

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

Client Sample ID: B18SS-2

Lab ID#: 1607235E-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.9	2.5 J
Freon 11	1.2	1.3	6.7	7.6
Ethanol	4.8	18	9.0	33
Acetone	12	13	28	31
2-Propanol	4.8	15	12	37
2-Butanone (Methyl Ethyl Ketone)	4.8	2.1 J	14	6.2 J
2,2,4-Trimethylpentane	1.2	0.20 J	5.6	0.95 J
Benzene	1.2	0.32 J	3.8	1.0 J
1,2-Dichloroethane	1.2	0.26 J	4.8	1.0 J
Toluene	1.2	1.8	4.5	7.0
Tetrachloroethene	1.2	0.38 J	8.1	2.6 J

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Client Sample ID: B18SS-2

Lab ID#: 1607235E-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071921**	**Date of Collection:**	**7/12/16 7:37:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**7/19/16 11:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.9	2.5 J
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	1.3	6.7	7.6
Ethanol	4.8	18	9.0	33
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	13	28	31
2-Propanol	4.8	15	12	37
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	2.1 J	14	6.2 J
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	0.20 J	5.6	0.95 J
Benzene	1.2	0.32 J	3.8	1.0 J
1,2-Dichloroethane	1.2	0.26 J	4.8	1.0 J
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	1.8	4.5	7.0
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	0.38 J	8.1	2.6 J
2-Hexanone	4.8	Not Detected	19	Not Detected

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Client Sample ID: B18SS-2

Lab ID#: 1607235E-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071921**	**Date of Collection:**	**7/12/16 7:37:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**7/19/16 11:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Naphthalene	2.4	Not Detected	12	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	95	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071921.d
Lab Smp Id: 1607235E-09A
Inj Date : 19-JUL-2016 23:10
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 3043
Misc Info : 4.7 Hg->14.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 22-Jul-2016 13:56 snguyen Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 5
Dil Factor: 2.38000
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.441	5.441 (1.000)	130	85934	25.0000		80.00- 120.00	100.00
5.448	5.441 (1.000)	128	64865			49.40- 109.40	75.48
5.441	5.434 (1.000)	49	196185			153.31- 213.31	228.30
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.330 (1.000)	114	324449	25.0000		80.00- 120.00	100.00
6.337	6.330 (1.000)	88	48259			0.00- 43.38	14.87
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	294556	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	164442			21.26- 81.26	55.83
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.099)	65	138227	26.1885	26.188	80.00- 120.00	100.00
5.979	5.971 (1.099)	67	65805			25.58- 85.58	47.61
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.191)	98	338560	25.8533	25.853	80.00- 120.00	100.00
7.547	7.547 (1.191)	70	39010			0.00- 40.37	11.52

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.191)   100    216229                    38.69-  98.69    63.87
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.753   9.754 (1.112)   174    228757 23.7499   23.750  80.00- 120.00   100.00
  9.753   9.754 (1.112)    95    219480                   59.95- 119.95    95.94
  9.753   9.754 (1.112)   176    210474                   67.47- 127.47    92.01
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.521   1.507 (0.279)    85      2123 0.21471   0.5110  80.00- 120.00   100.00(a)
  1.521   1.507 (0.279)    87       627                     2.43-  62.43    29.53
-------------------------------------------------------------------------------
   35 Freon 11                                      CAS #: 75-69-4
  2.569   2.562 (0.472)   101      5856 0.56480    1.344  80.00- 120.00   100.00
  2.569   2.562 (0.472)   103      4656                    35.01-  95.01    79.51
-------------------------------------------------------------------------------
   42 Ethanol                                       CAS #: 64-17-5
  2.884   2.870 (0.530)    45     14866 7.44543   17.720  80.00- 120.00   100.00
  2.884   2.870 (0.530)    43      4310                     0.00-  51.15    29.00
  2.891   2.870 (0.531)    46      5722                     7.97-  67.97    38.49
-------------------------------------------------------------------------------
   52 Acetone                                       CAS #: 67-64-1
  3.386   3.371 (0.622)    58     12791 5.53236   13.167  80.00- 120.00   100.00
  3.386   3.371 (0.622)    43     44638                  353.98- 413.98   348.97
-------------------------------------------------------------------------------
   57 2-Propanol                                    CAS #: 67-63-0
  3.550   3.536 (0.652)    45     63738 6.35325   15.121  80.00- 120.00   100.00
  3.550   3.543 (0.652)    43     17172                    0.00-  50.28    26.94
  3.550   3.543 (0.652)    59      2025                    0.00-  33.15     3.18
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.241   5.234 (0.963)    72      1533 0.88424    2.104  80.00- 120.00   100.00(a)
  5.241   5.234 (0.963)    43     10804                  611.89- 671.89   704.61
  5.241   5.234 (0.963)    57       748                   17.72-  77.72    48.79
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.950   5.950 (1.093)    57      2210 0.08538   0.2032  80.00- 120.00   100.00(a)
  5.943   5.950 (1.092)    56      1092                     2.51-  62.51    49.43
  5.950   5.950 (1.093)    41       776                     0.00-  58.92    35.13
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.957   5.964 (0.940)    78      1365 0.13649   0.3248  80.00- 120.00   100.00(a)
  5.957   5.964 (0.940)    77       106                     0.00-  54.04     7.84
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                            CAS #: 107-06-2
  6.043   6.043 (0.954)    62       657 0.10998   0.2618  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
120 1,2-Dichloroethane (continued)							
6.050	6.043 (0.955)	64	260			0.59- 60.59	39.65
147 Toluene					CAS #: 108-88-3		
7.605	7.605 (1.200)	91	10704	0.77773	1.851	80.00- 120.00	100.00
7.605	7.605 (1.200)	92	6207			28.28- 88.28	57.99
156 Tetrachloroethene					CAS #: 127-18-4		
8.042	8.042 (0.917)	166	1300	0.16095	0.3831	80.00- 120.00	100.00(a)
8.042	8.034 (0.917)	129	919			34.91- 94.91	70.68
8.042	8.042 (0.917)	131	1138			34.35- 94.35	87.54

QC Flag Legend

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

Report Date: 27-Jul-2016 16:01

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071921.d
Lab Smp Id: 1607235E-09A
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.7 Hg->14.8 psi

Calibration Date: 19-JUL-2016
Calibration Time: 11:28

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	85934	-9.79
123 1,4-Difluorobenze	379135	227481	530789	324449	-14.42
163 Chlorobenzene-d5	348612	209167	488057	294556	-15.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	0.00

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

Report Date: 27-Jul-2016 16:01

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 19jul16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1607235E-09A
Level: LOW
Operator: gh
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.7 Hg->14.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	26.188	104.75	70-130
$ 146 Toluene-d8	25.000	25.853	103.41	70-130
$ 177 4-Bromofluorobenze	25.000	23.750	95.00	70-130

Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

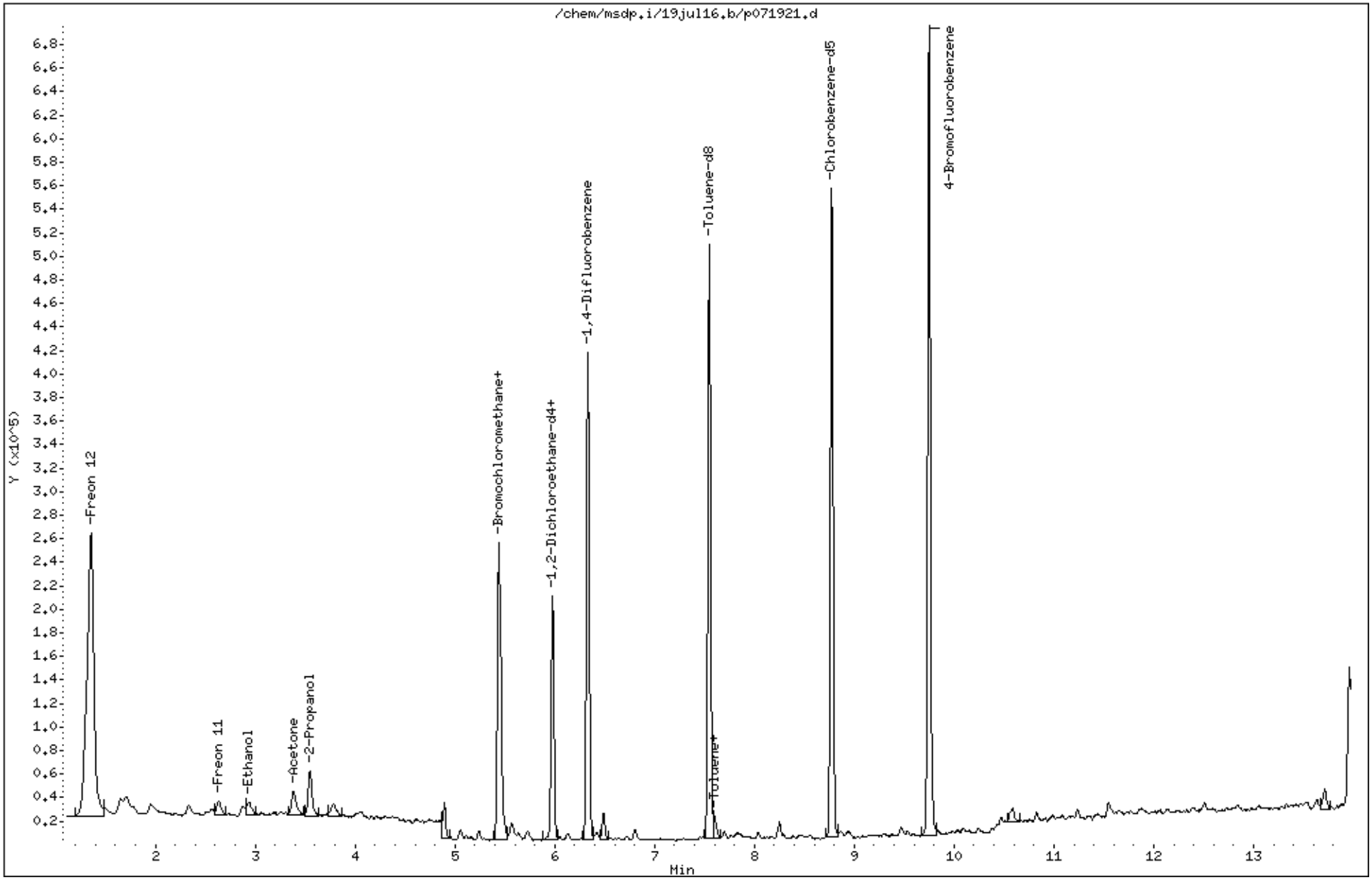
Sample Info: 200ml 3043

Column phase: RTX-624

Instrument: msdp.i

Operator: gh

Column diameter: 0.25



Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

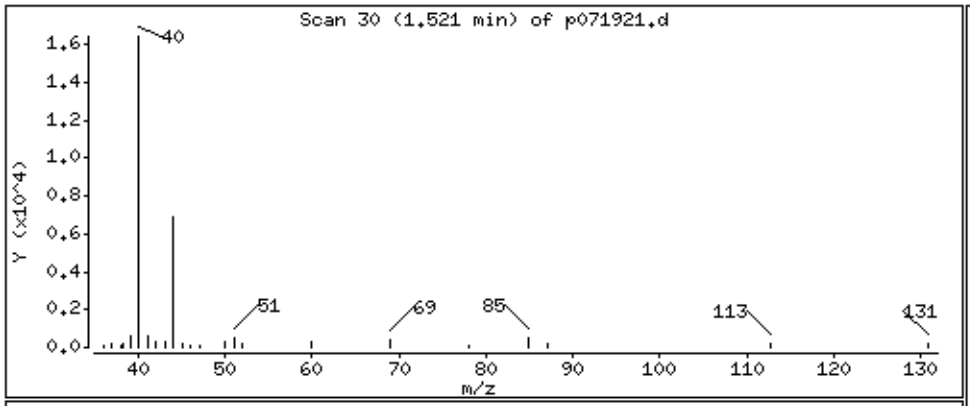
Operator: gh

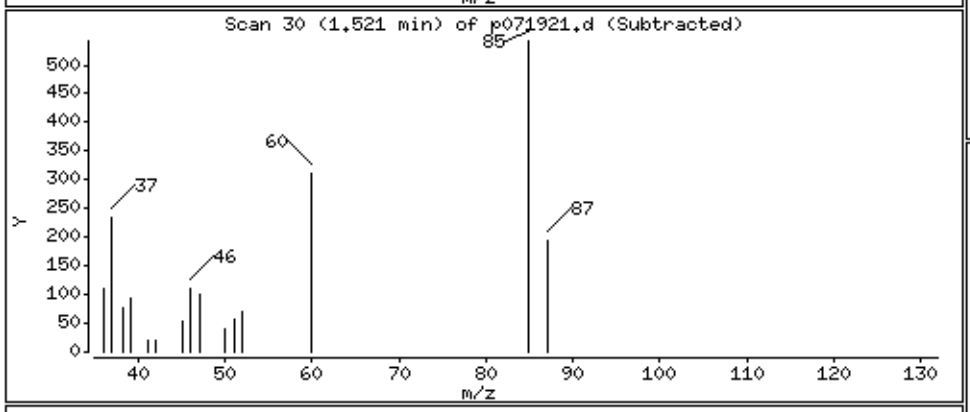
Column phase: RTX-624

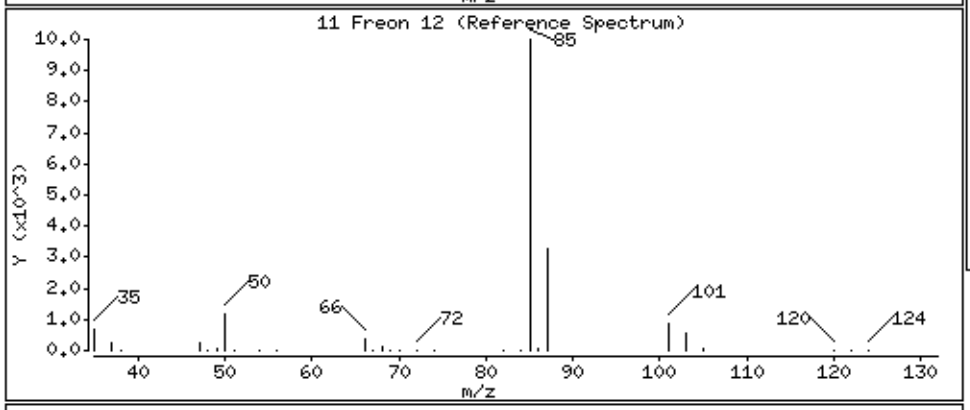
Column diameter: 0.25

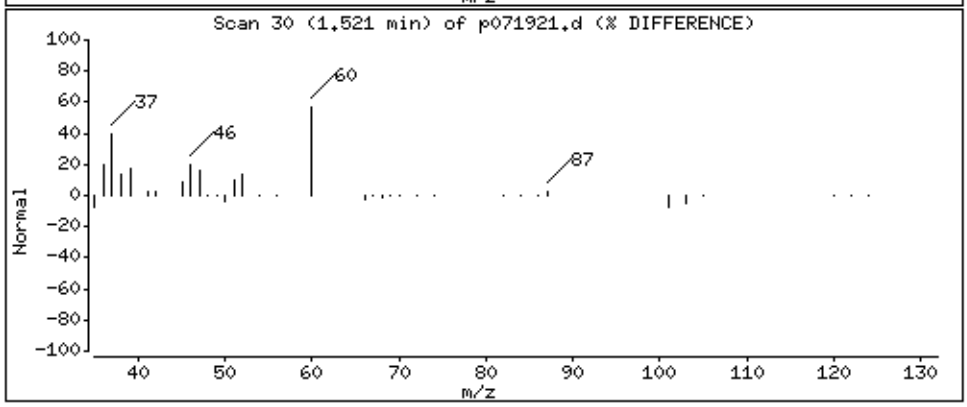
11 Freon 12

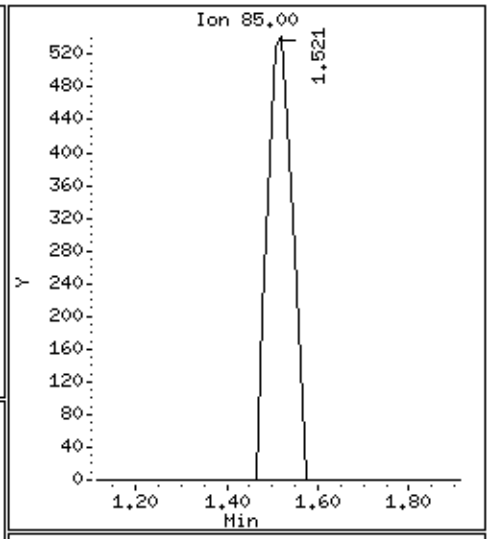
Concentration: 0.5110 PPBV

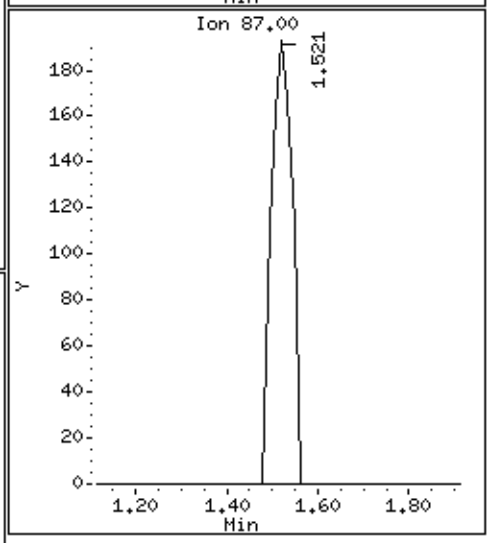












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

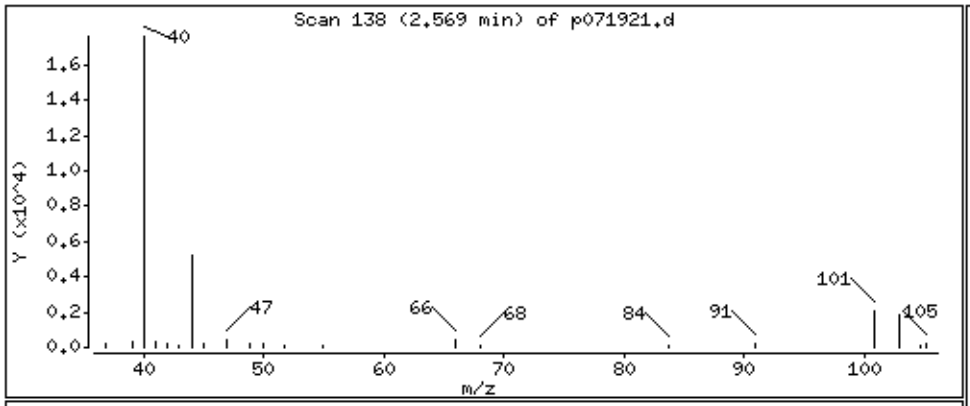
Operator: gh

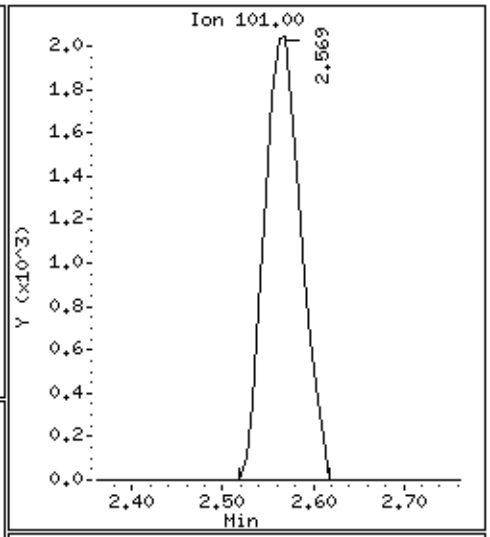
Column phase: RTX-624

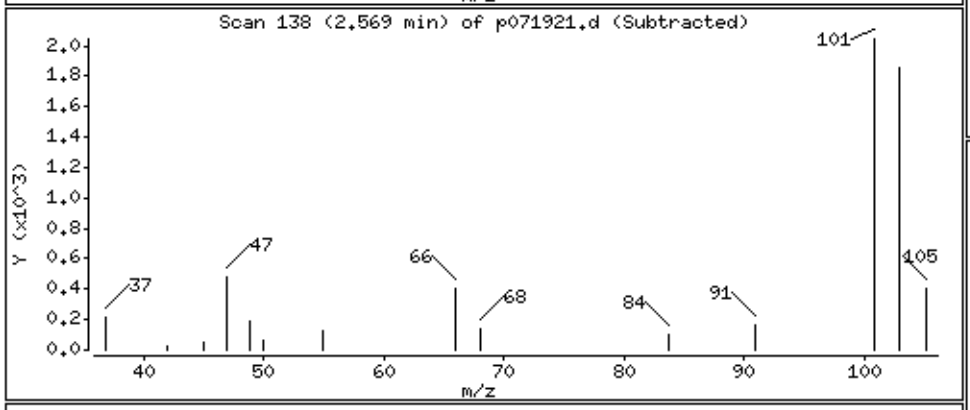
Column diameter: 0.25

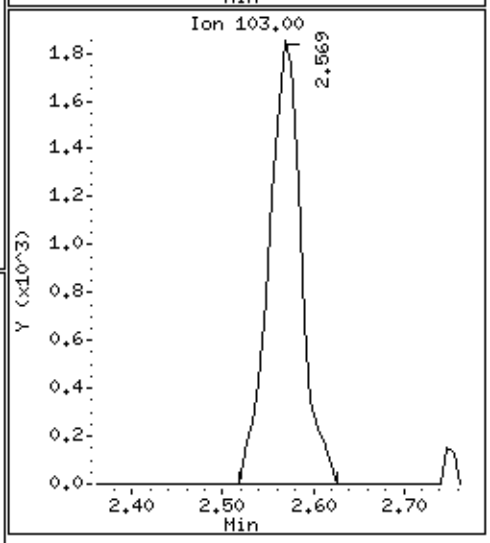
35 Freon 11

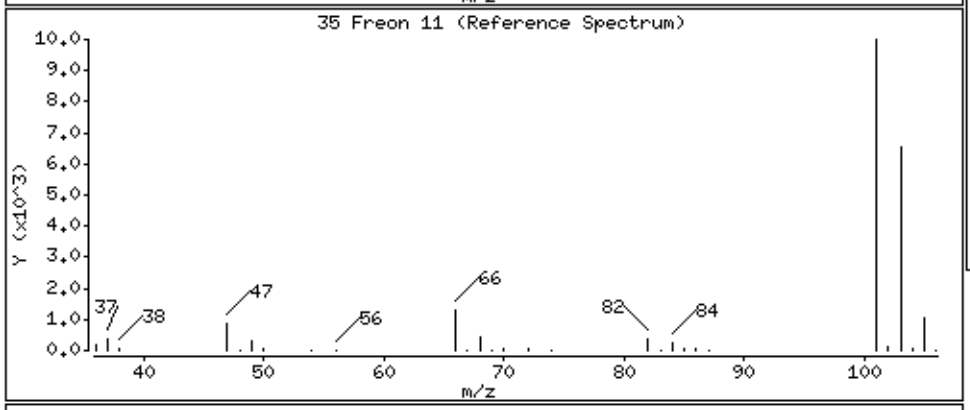
Concentration: 1.344 PPBV

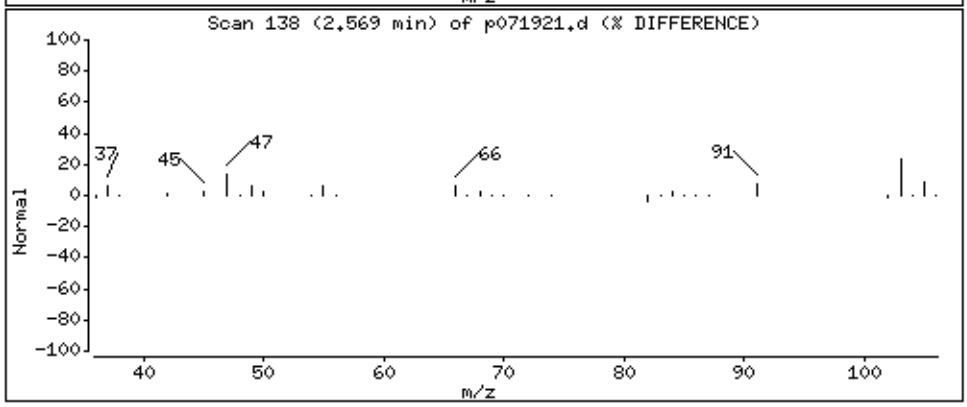












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

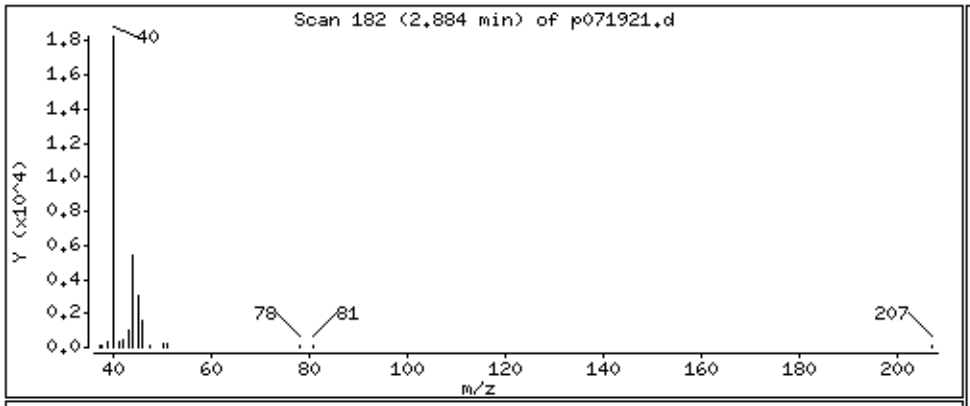
Operator: gh

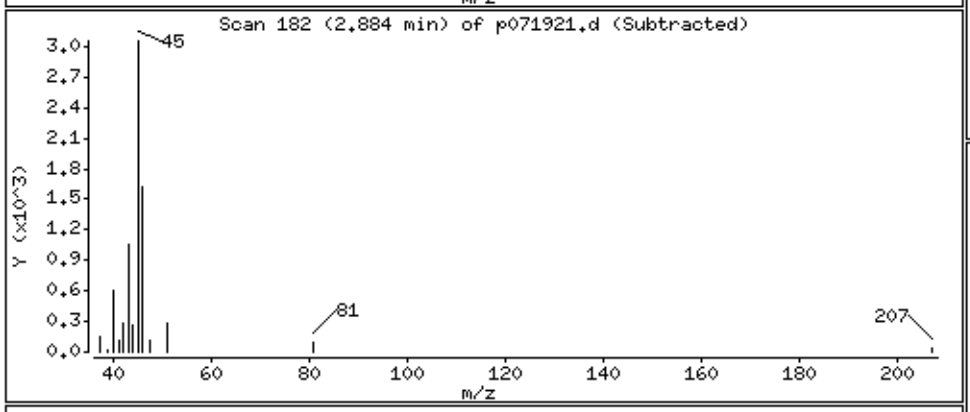
Column phase: RTX-624

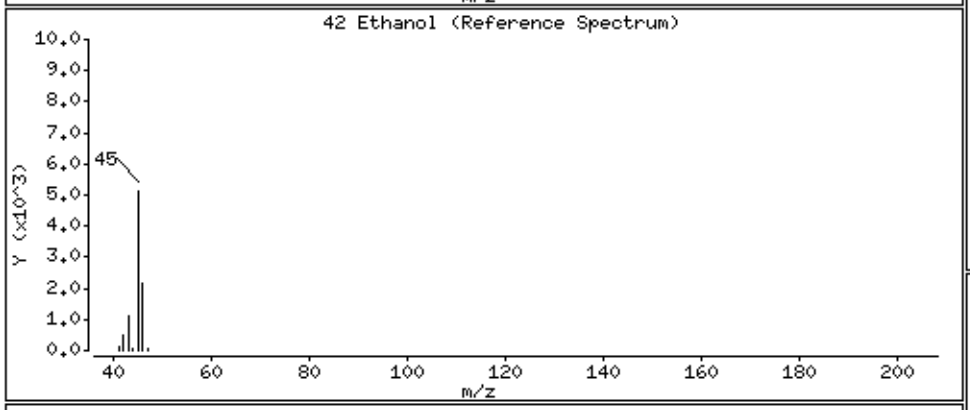
Column diameter: 0.25

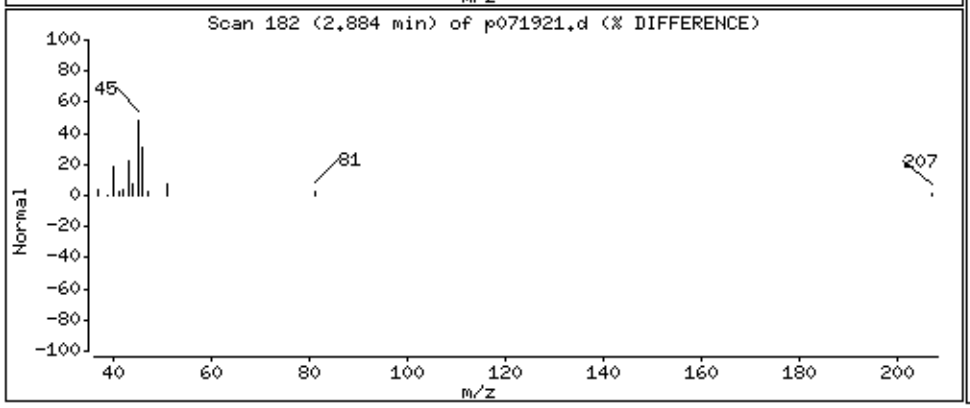
42 Ethanol

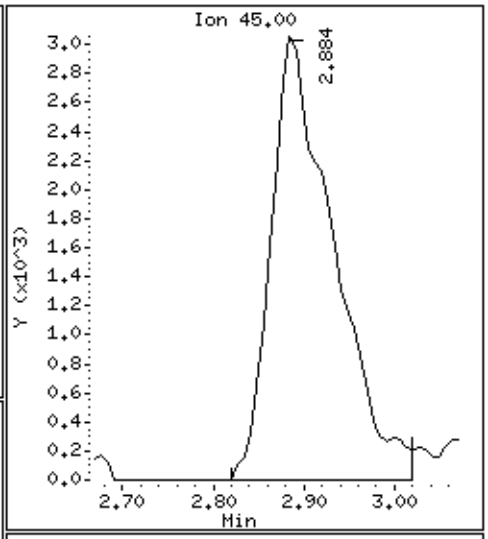
Concentration: 17.720 PPBV

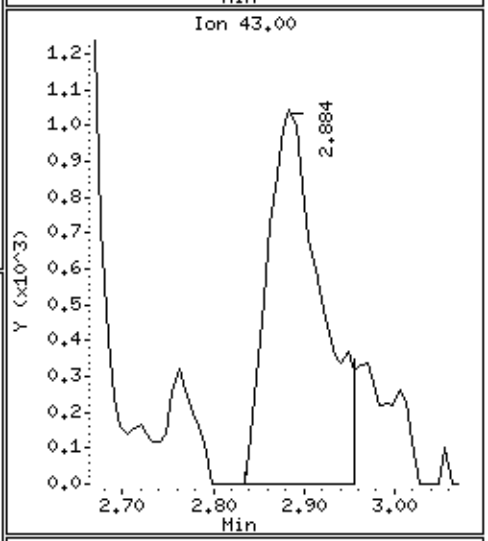


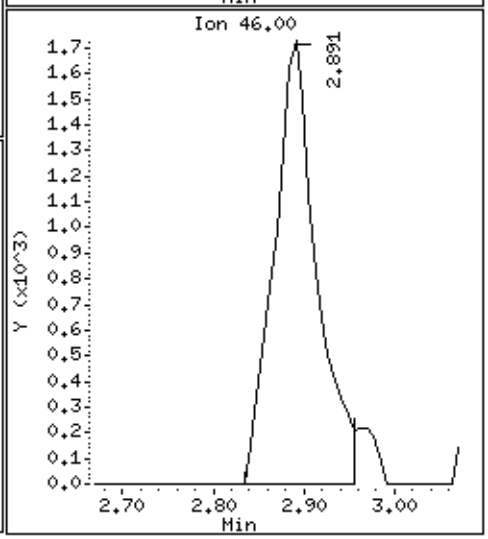












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

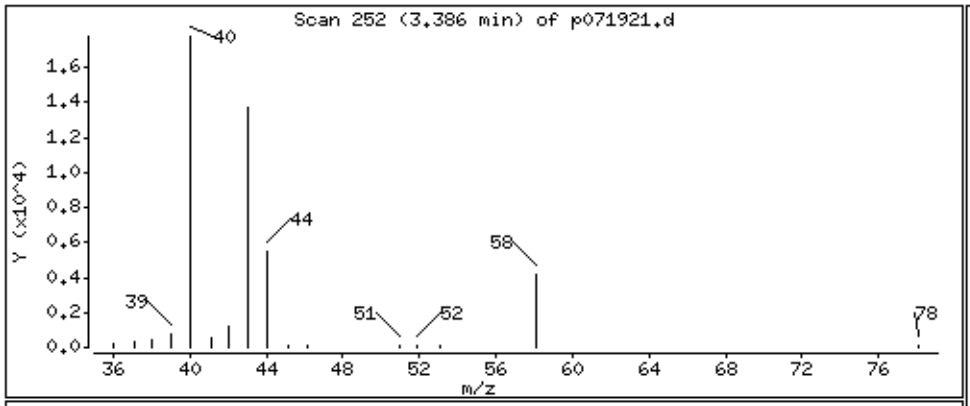
Operator: gh

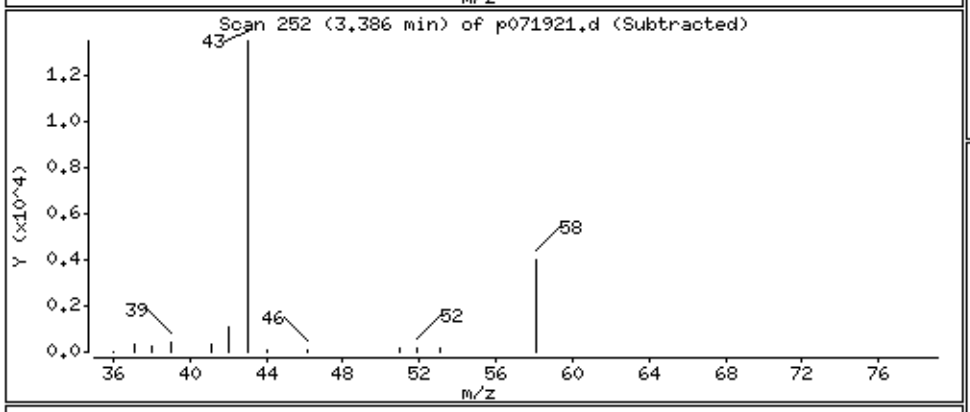
Column phase: RTX-624

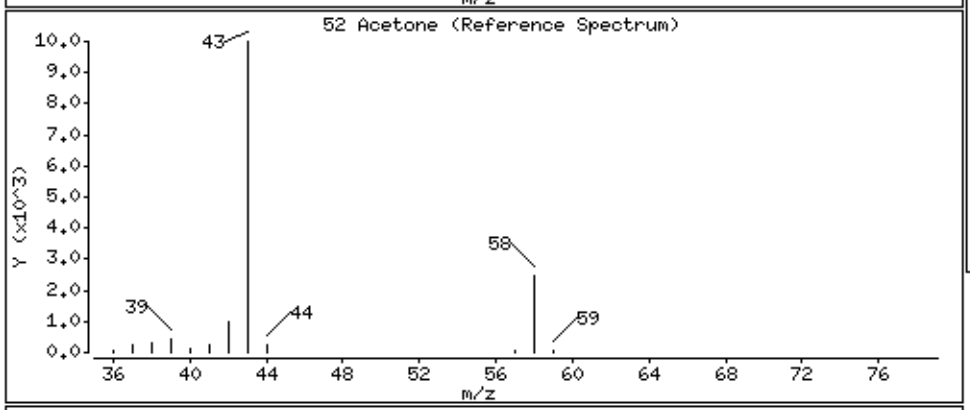
Column diameter: 0.25

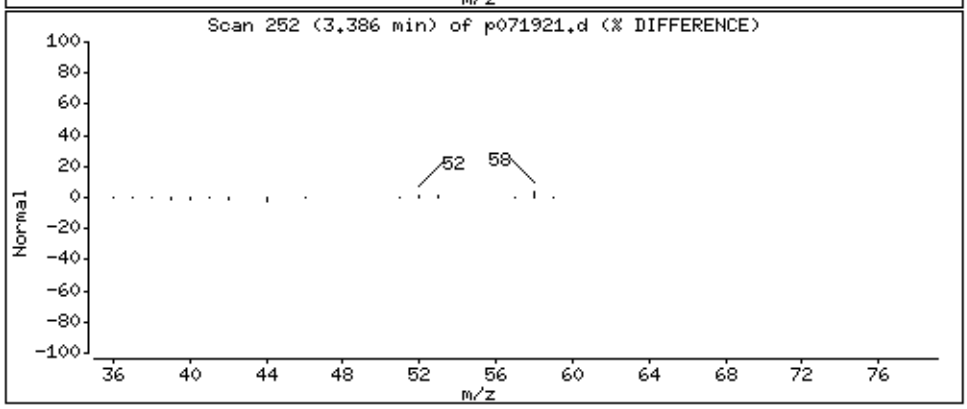
52 Acetone

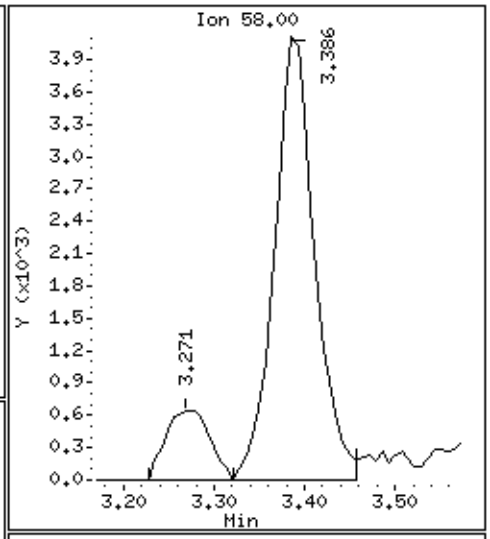
Concentration: 13.167 PPBV

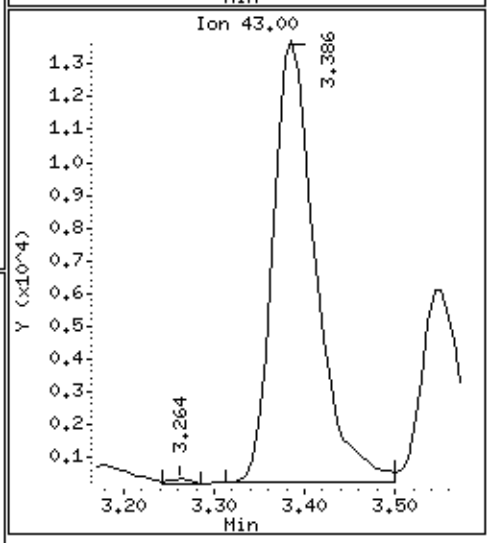












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

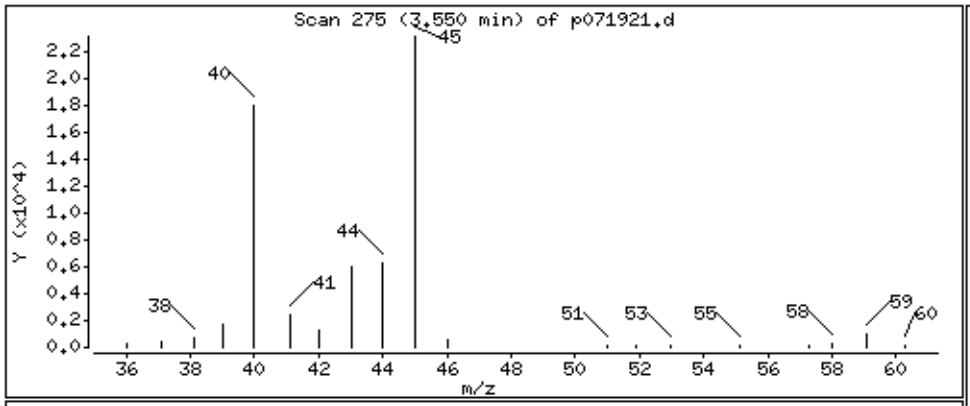
Operator: gh

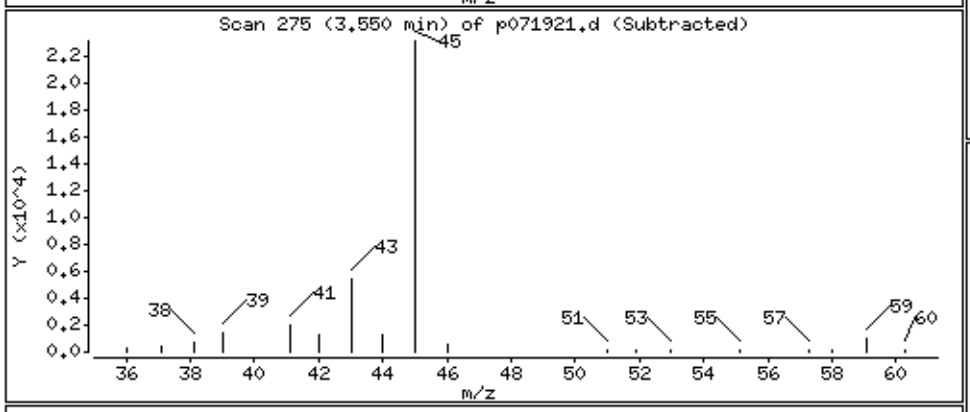
Column phase: RTX-624

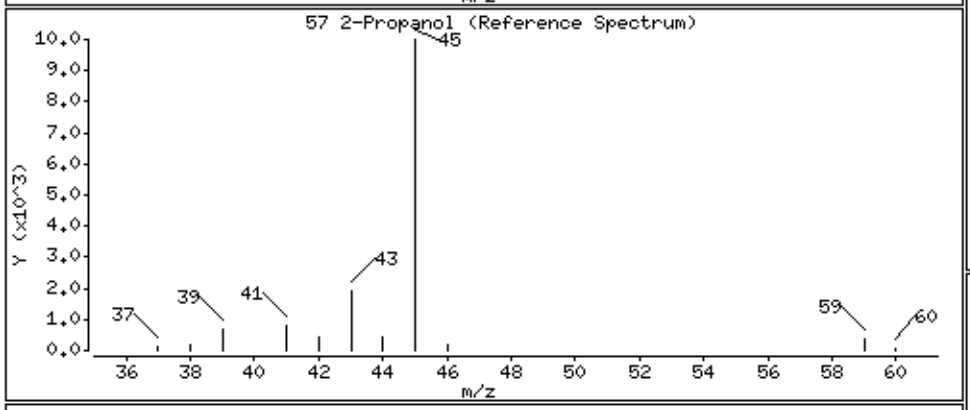
Column diameter: 0.25

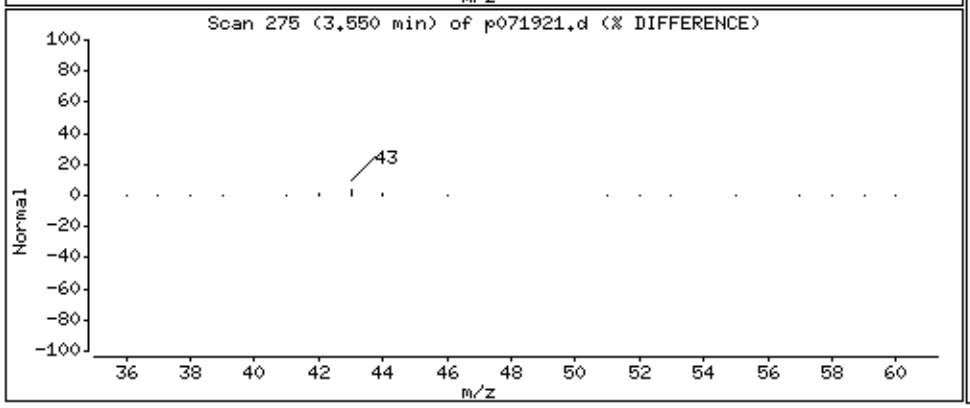
57 2-Propanol

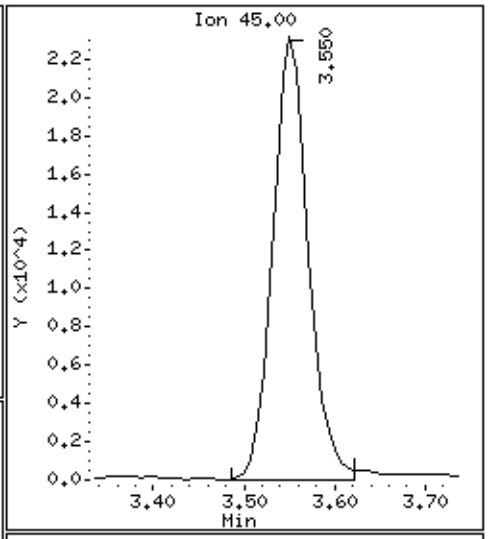
Concentration: 15.121 PPBV

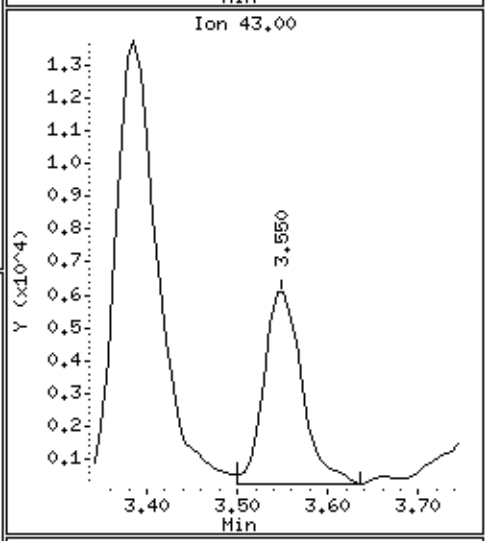


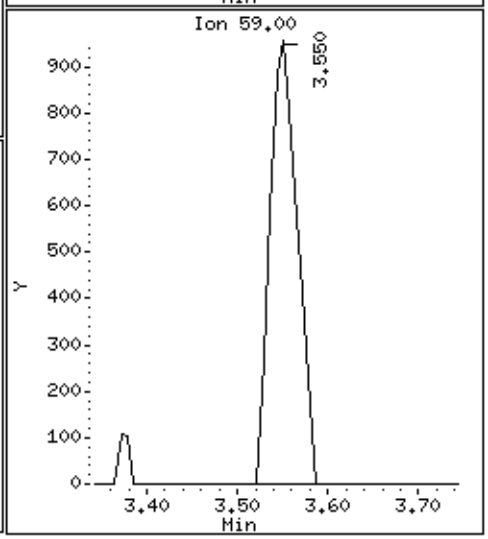












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

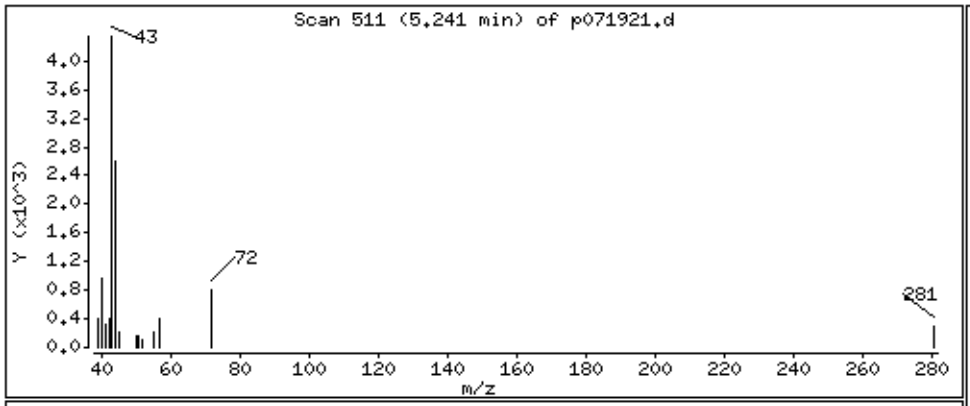
Operator: gh

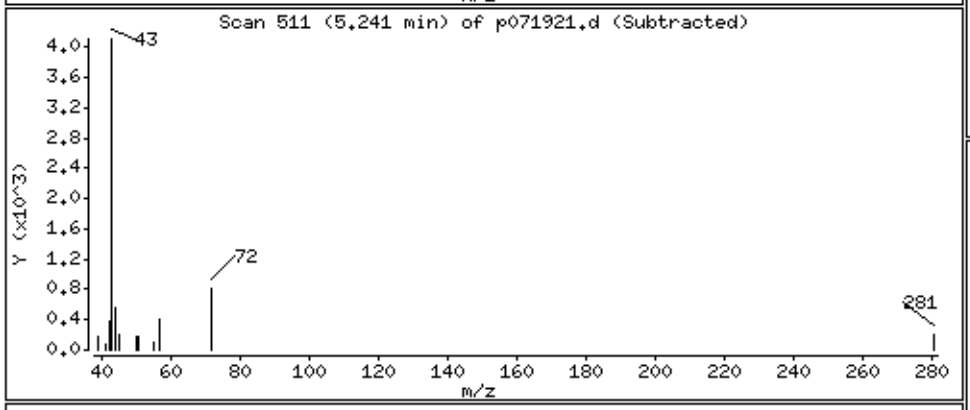
Column phase: RTX-624

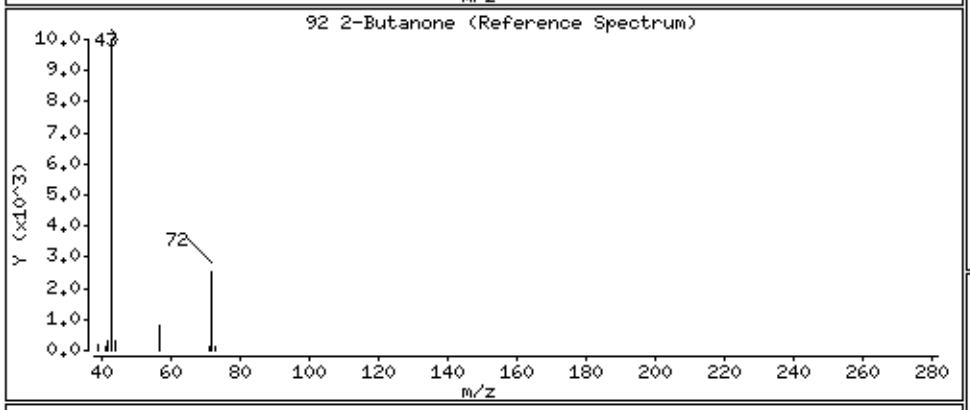
Column diameter: 0.25

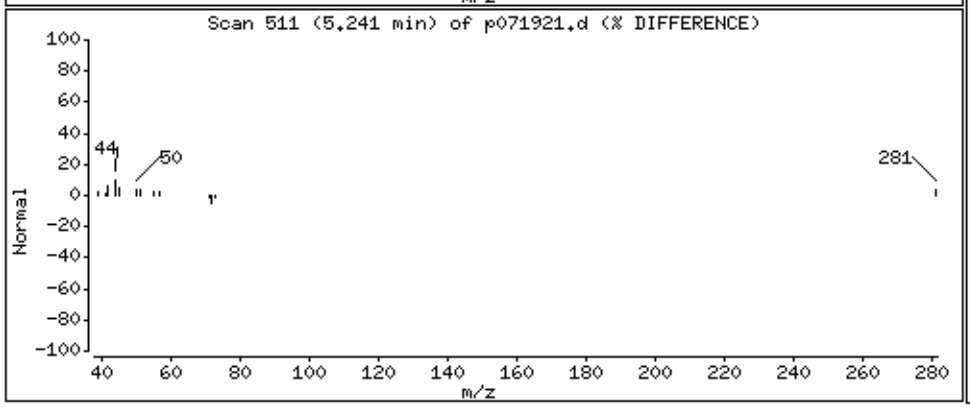
92 2-Butanone

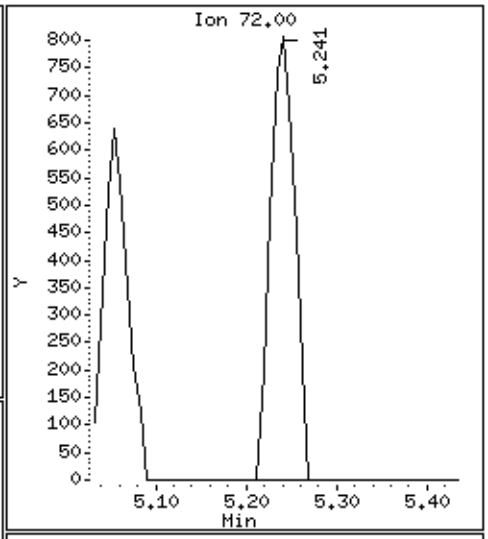
Concentration: 2.104 PPBV

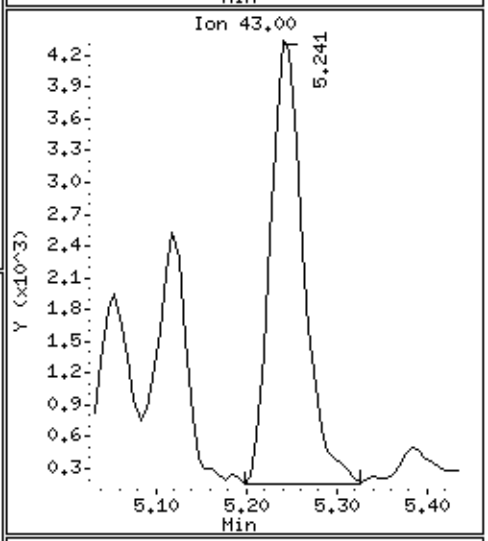


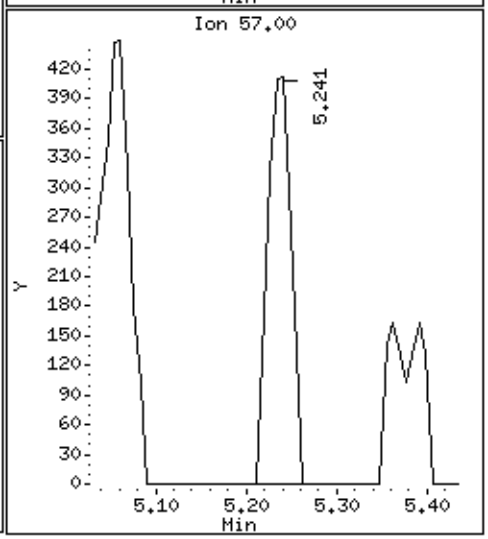












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

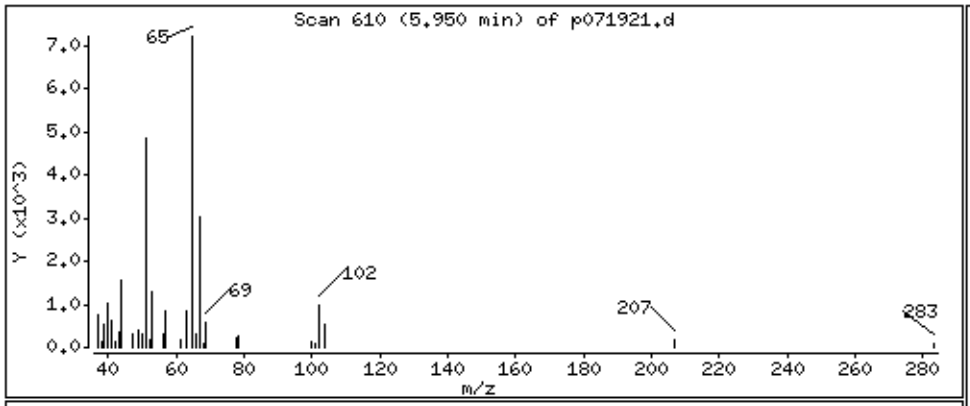
Operator: gh

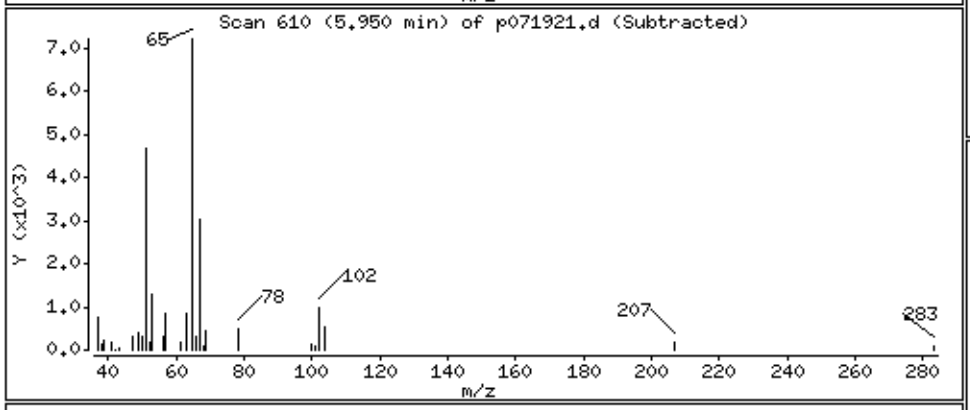
Column phase: RTX-624

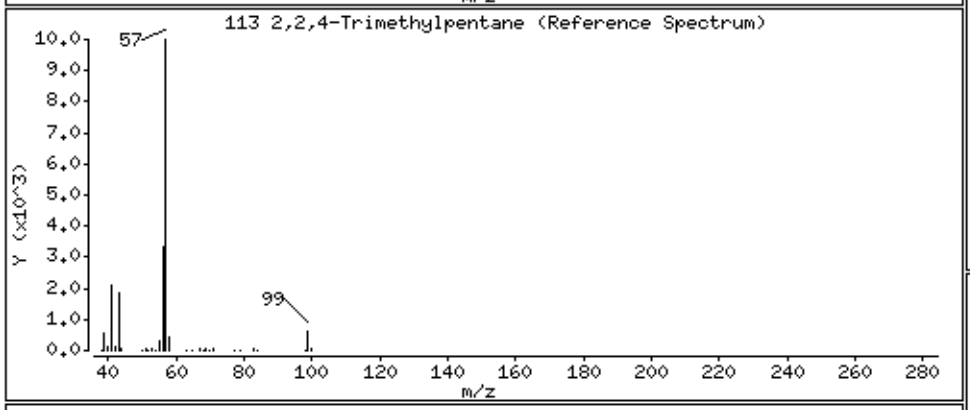
Column diameter: 0.25

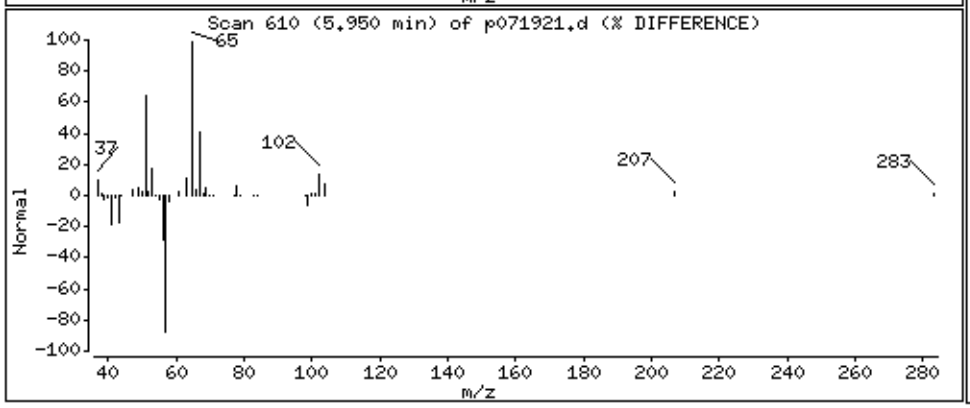
113 2,2,4-Trimethylpentane

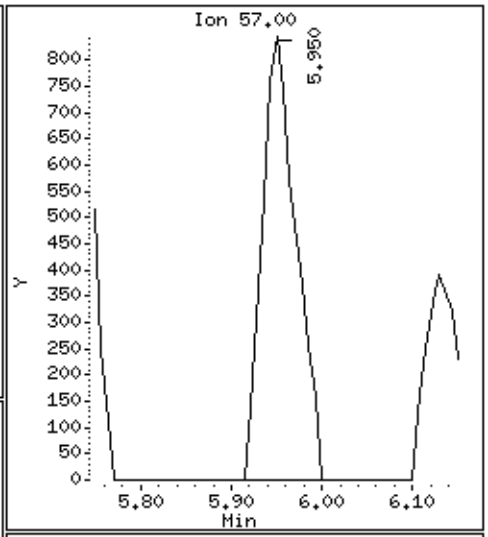
Concentration: 0.2032 PPBV

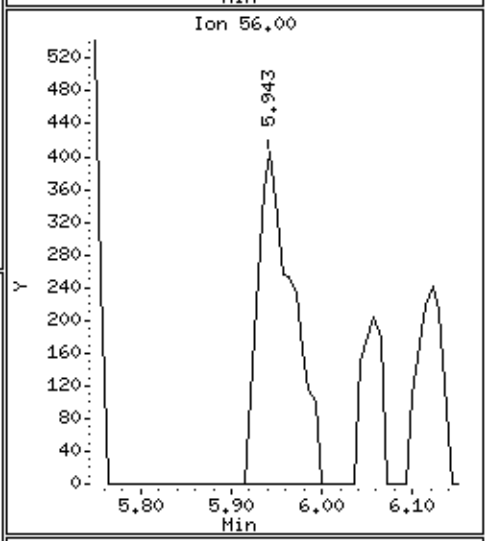


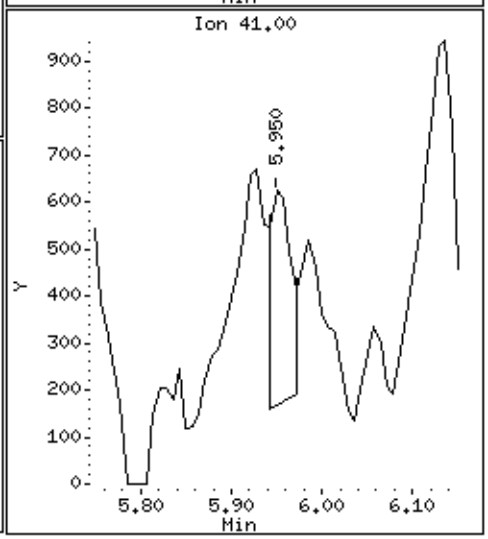












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

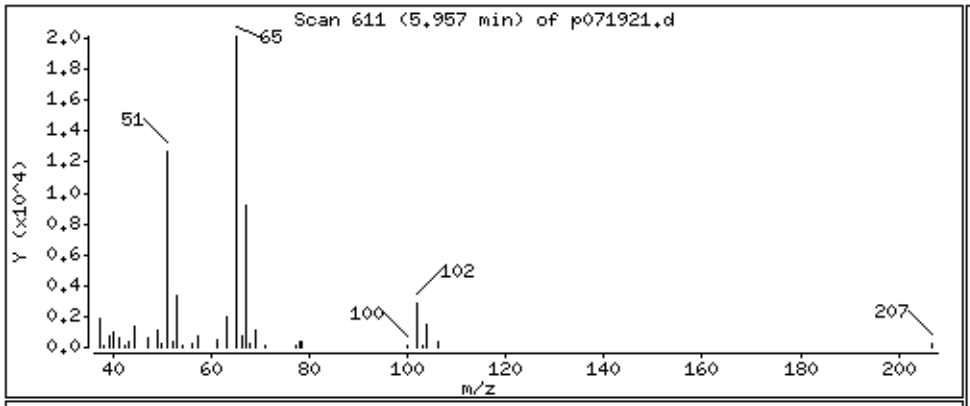
Operator: gh

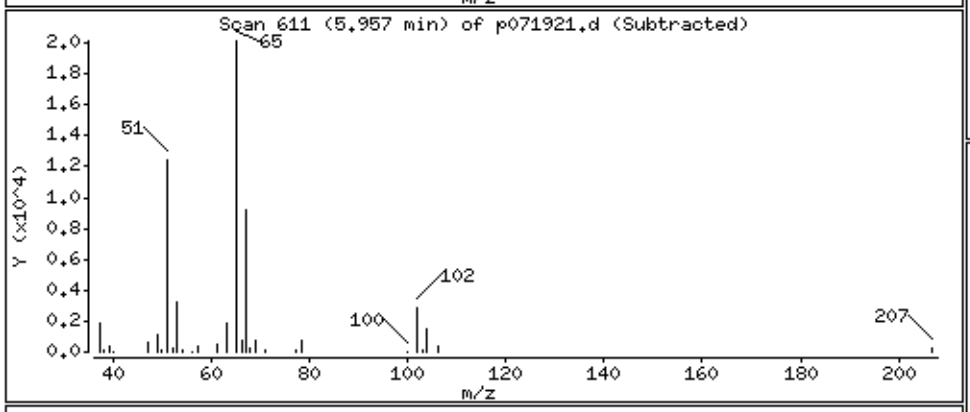
Column phase: RTX-624

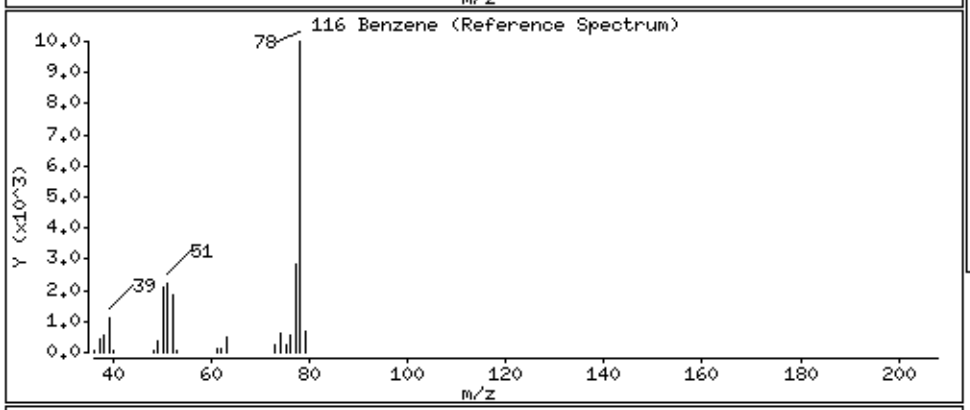
Column diameter: 0.25

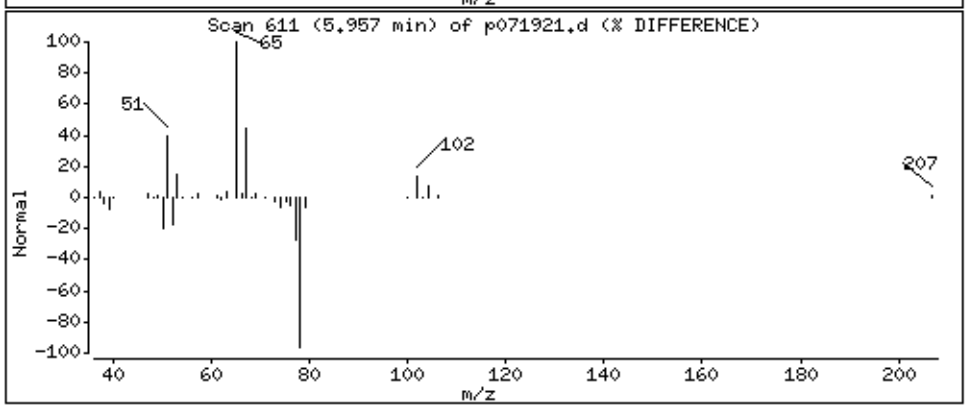
116 Benzene

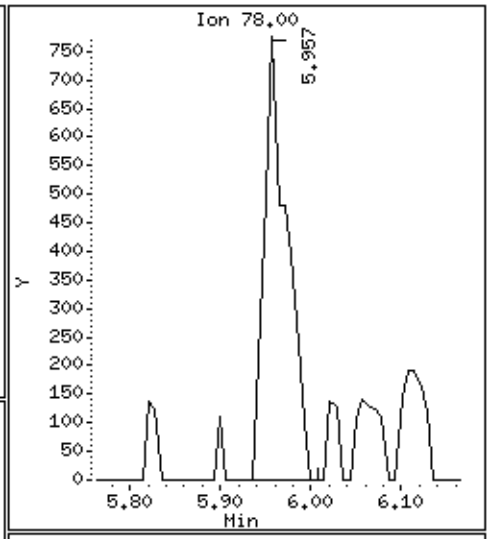
Concentration: 0.3248 PPBV

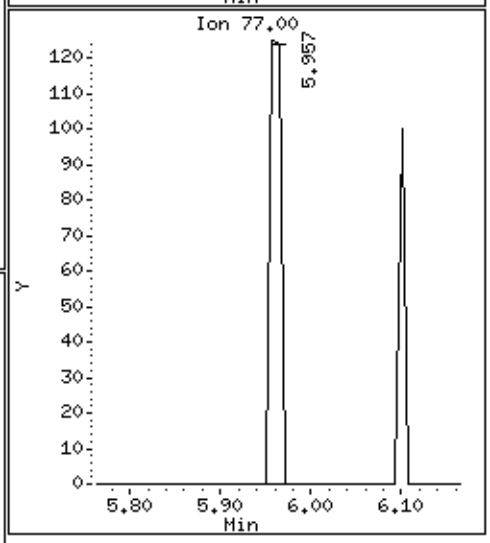












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

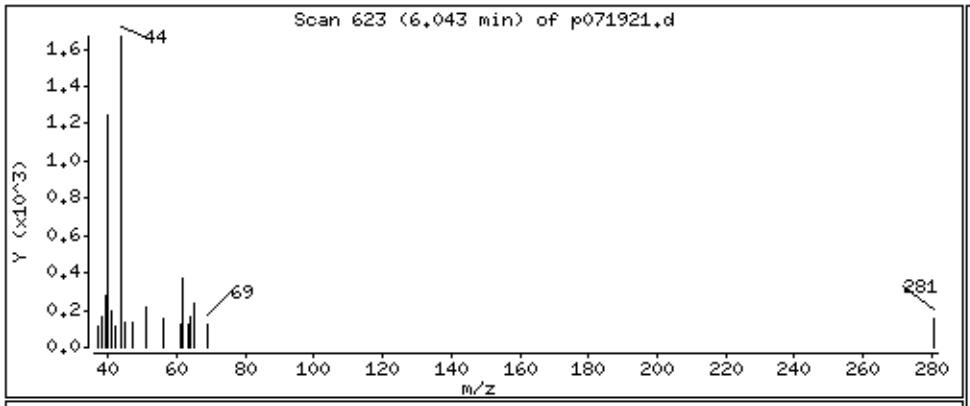
Operator: gh

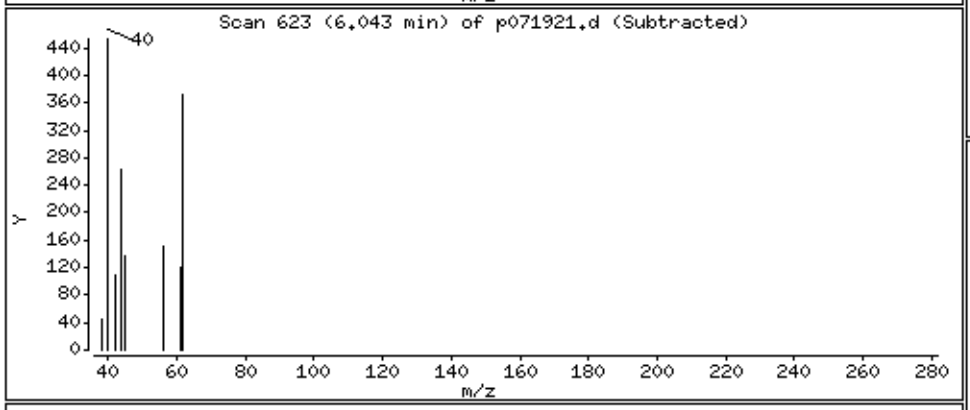
Column phase: RTX-624

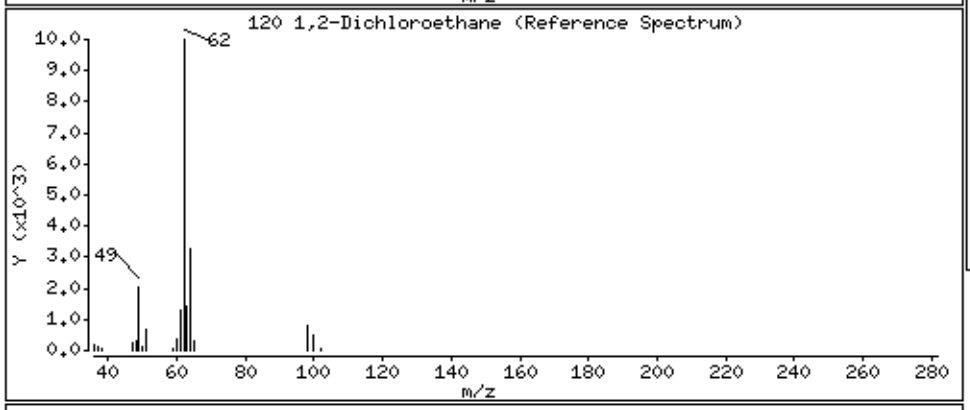
Column diameter: 0.25

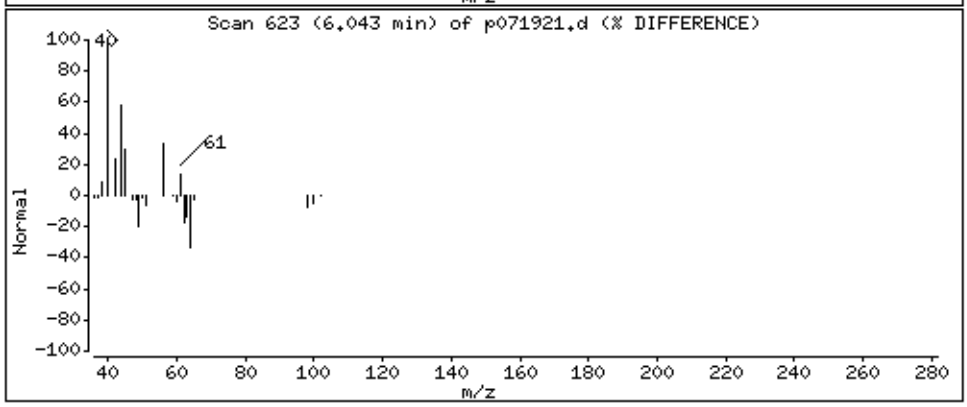
120 1,2-Dichloroethane

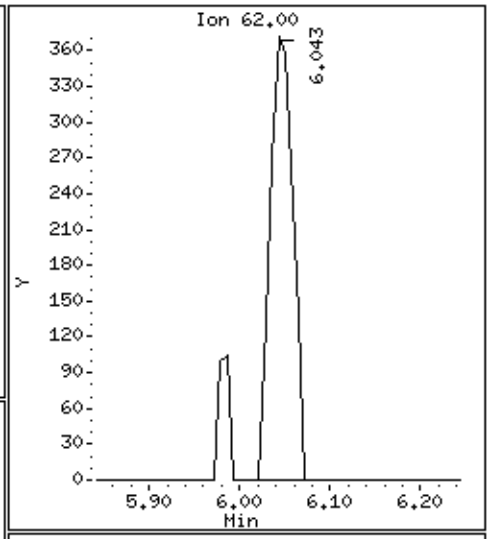
Concentration: 0.2618 PPBV

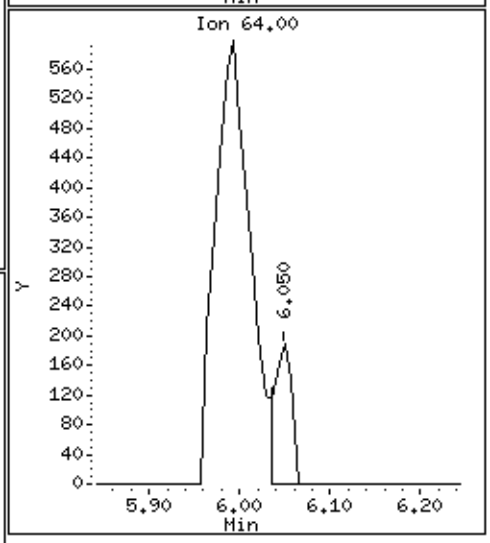












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

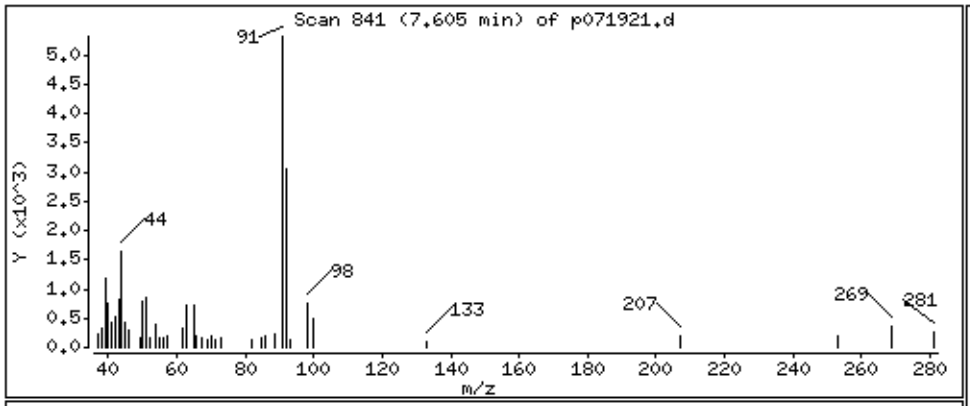
Operator: gh

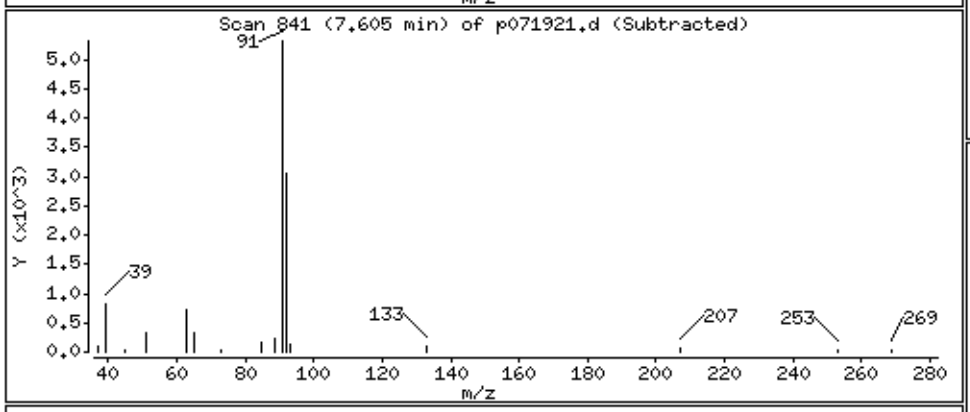
Column phase: RTX-624

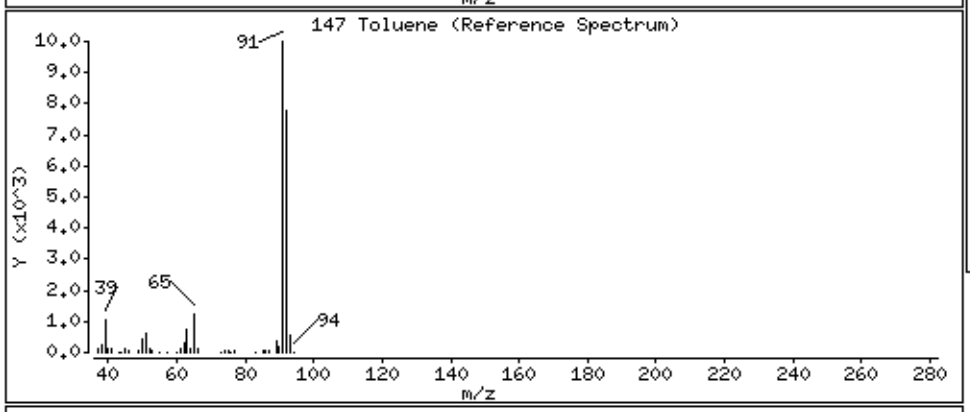
Column diameter: 0.25

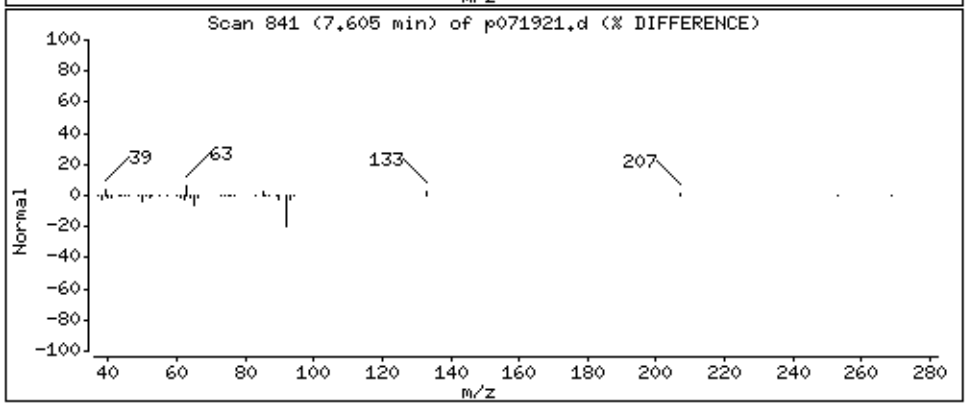
147 Toluene

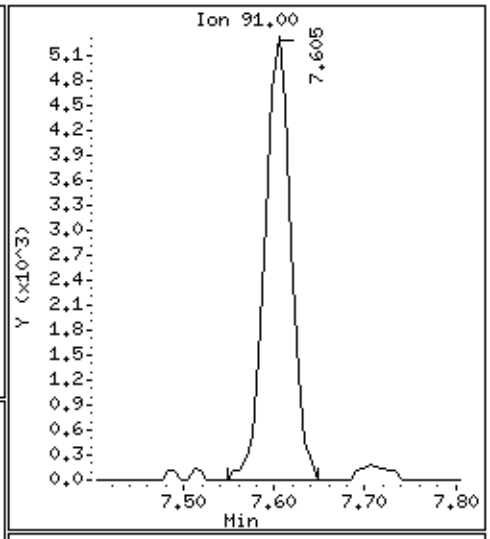
Concentration: 1.851 PPBV

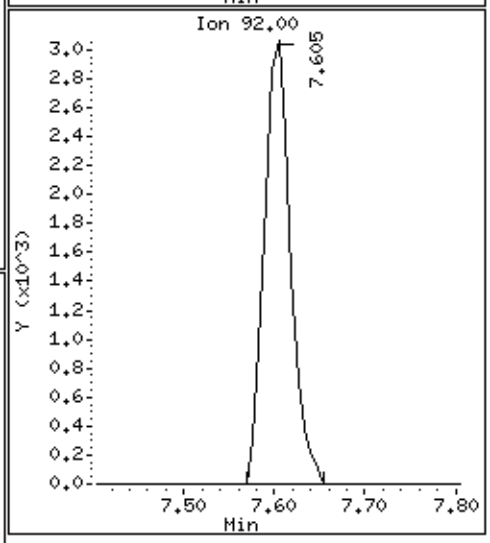












Data File: /chem/msdp.i/19jul16.b/p071921.d

Date : 19-JUL-2016 23:10

Client ID:

Instrument: msdp.i

Sample Info: 200ml 3043

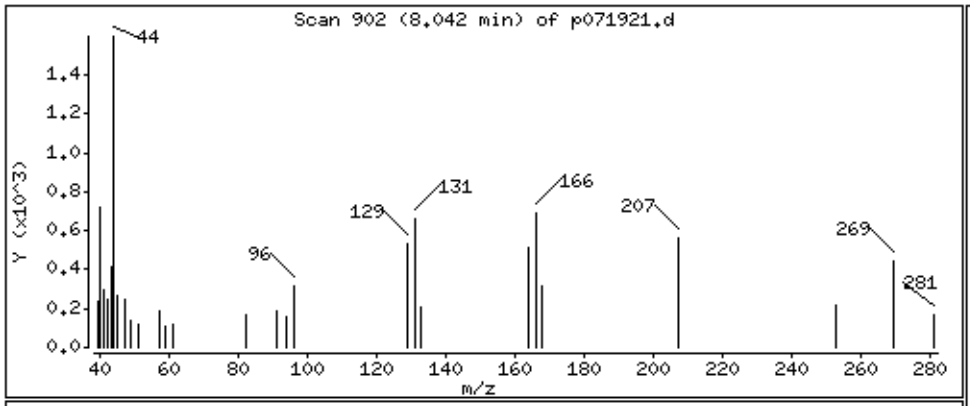
Operator: gh

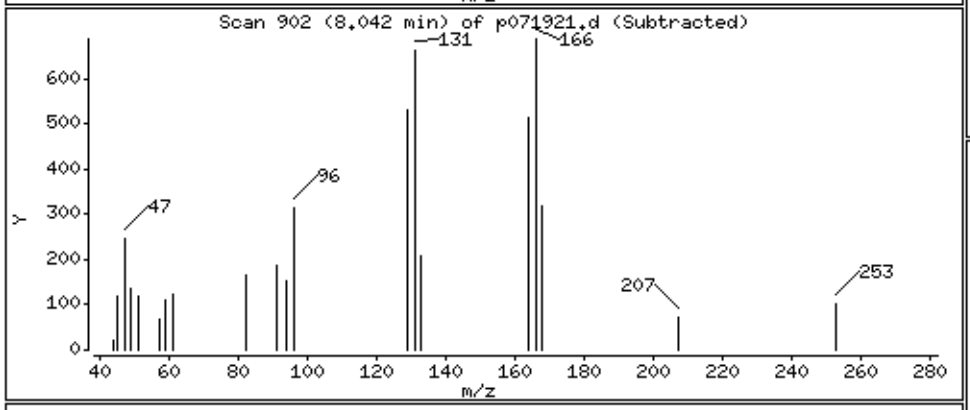
Column phase: RTX-624

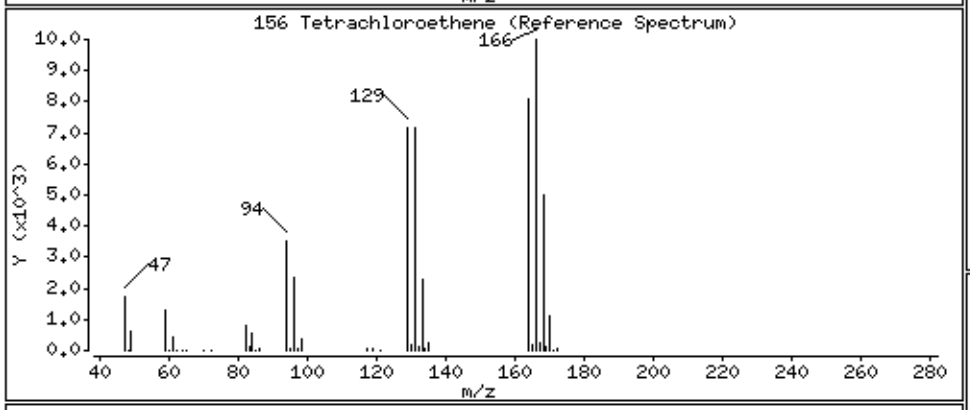
Column diameter: 0.25

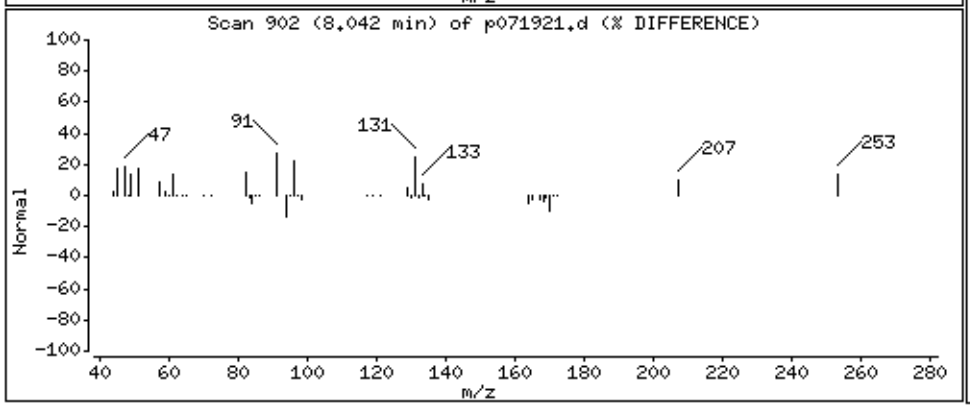
156 Tetrachloroethene

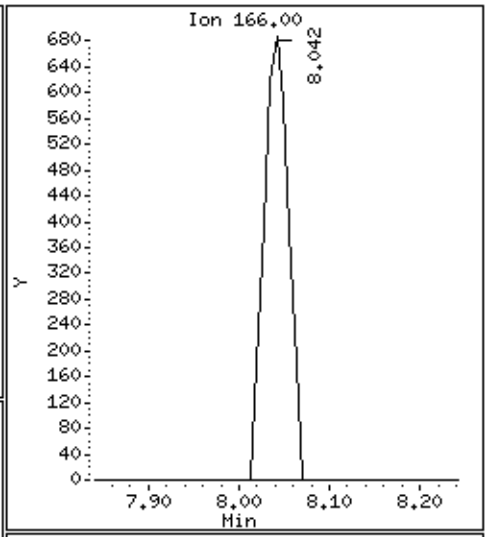
Concentration: 0.3831 PPBV

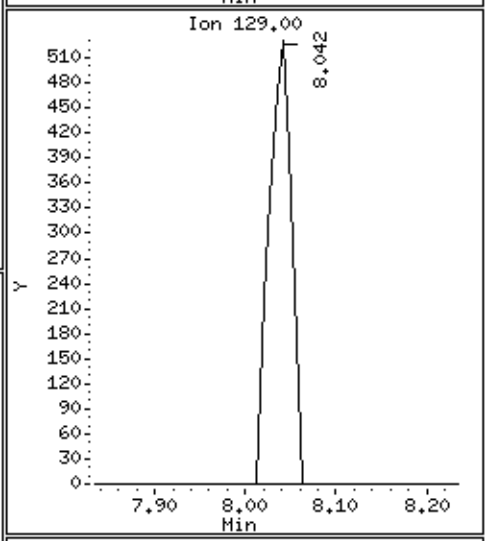


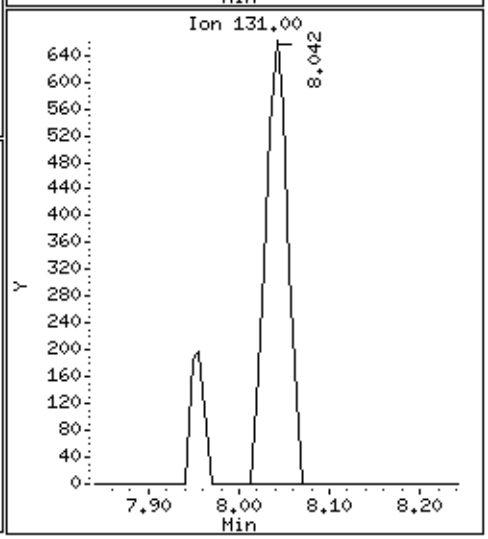












eurofins | Air Toxics

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

Client Sample ID: B18SS-3

Lab ID#: 1607235E-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.9	2.5 J
Freon 11	1.2	0.74 J	6.7	4.2 J
Ethanol	4.8	24	9.0	45
Acetone	12	63	28	150
2-Propanol	4.8	19	12	46
Methylene Chloride	12	1.3 J	42	4.6 J
2-Butanone (Methyl Ethyl Ketone)	4.8	7.1	14	21
Cyclohexane	1.2	0.19 J	4.1	0.64 J
2,2,4-Trimethylpentane	1.2	0.24 J	5.6	1.1 J
Benzene	1.2	1.1 J	3.8	3.5 J
Heptane	1.2	0.61 J	4.9	2.5 J
4-Methyl-2-pentanone	1.2	0.59 J	4.9	2.4 J
Toluene	1.2	3.4	4.5	13
2-Hexanone	4.8	0.82 J	20	3.4 J
m,p-Xylene	1.2	0.82 J	5.2	3.5 J

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Client Sample ID: B18SS-3

Lab ID#: 1607235E-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071922**	**Date of Collection:**	**7/11/16 6:49:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**7/19/16 11:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.9	2.5 J
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	0.74 J	6.7	4.2 J
Ethanol	4.8	24	9.0	45
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	63	28	150
2-Propanol	4.8	19	12	46
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	1.3 J	42	4.6 J
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	7.1	14	21
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	0.19 J	4.1	0.64 J
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	0.24 J	5.6	1.1 J
Benzene	1.2	1.1 J	3.8	3.5 J
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	0.61 J	4.9	2.5 J
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	0.59 J	4.9	2.4 J
Toluene	1.2	3.4	4.5	13
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	0.82 J	20	3.4 J

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Client Sample ID: B18SS-3

Lab ID#: 1607235E-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071922**	**Date of Collection:**	**7/11/16 6:49:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**7/19/16 11:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	0.82 J	5.2	3.5 J
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Naphthalene	2.4	Not Detected	12	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	92	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071922.d
Lab Smp Id: 1607235E-10A
Inj Date : 19-JUL-2016 23:36
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 8031
Misc Info : 4.7 Hg->15.1 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 22-Jul-2016 13:56 snguyen Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 6
Dil Factor: 2.40000
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.441 (1.000)	130	85281	25.0000		80.00- 120.00	100.00
5.449	5.441 (1.000)	128	65041			49.40- 109.40	76.27
5.442	5.434 (1.000)	49	196032			153.31- 213.31	229.86
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.330 (1.000)	114	326339	25.0000		80.00- 120.00	100.00
6.337	6.330 (1.000)	88	43931			0.00- 43.38	13.46
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	298140	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	157076			21.26- 81.26	52.69
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.097)	65	138485	26.4383	26.438	80.00- 120.00	100.00
5.979	5.971 (1.097)	67	63209			25.58- 85.58	45.64
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.191)	98	330348	25.0802	25.080	80.00- 120.00	100.00
7.547	7.547 (1.191)	70	40107			0.00- 40.37	12.14

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.191)   100    219074                    38.69-  98.69    66.32
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.754   9.754 (1.112)   174    223349 22.9097   22.910  80.00- 120.00   100.00
  9.754   9.754 (1.112)    95    212687                    59.95- 119.95    95.23
  9.754   9.754 (1.112)   176    218380                    67.47- 127.47    97.78
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.521   1.507 (0.279)    85      2078 0.21177   0.5082  80.00- 120.00   100.00(a)
  1.521   1.507 (0.279)    87       562                     2.43-  62.43    27.06
-------------------------------------------------------------------------------
   35 Freon 11                                      CAS #: 75-69-4
  2.569   2.562 (0.472)   101      3181 0.30915   0.7420  80.00- 120.00   100.00(a)
  2.562   2.562 (0.470)   103      2146                    35.01-  95.01    67.48
-------------------------------------------------------------------------------
   42 Ethanol                                       CAS #: 64-17-5
  2.884   2.870 (0.529)    45     19748 9.96625   23.919  80.00- 120.00   100.00
  2.884   2.870 (0.529)    43      2929                     0.00-  51.15    14.83
  2.884   2.870 (0.529)    46      6915                     7.97-  67.97    35.02
-------------------------------------------------------------------------------
   52 Acetone                                       CAS #: 67-64-1
  3.386   3.371 (0.621)    58     60327 26.2924   63.102  80.00- 120.00   100.00
  3.386   3.371 (0.621)    43    272586                   353.98- 413.98   451.85
-------------------------------------------------------------------------------
   57 2-Propanol                                    CAS #: 67-63-0
  3.550   3.536 (0.652)    45     77991 7.83348   18.800  80.00- 120.00   100.00
  3.550   3.543 (0.652)    43     21200                     0.00-  50.28    27.18
  3.550   3.543 (0.652)    59      3005                     0.00-  33.15     3.85
-------------------------------------------------------------------------------
   66 Methylene Chloride                            CAS #: 75-09-2
  3.894   3.894 (0.715)    49      3671 0.55794    1.339  80.00- 120.00   100.00(a)
  3.894   3.894 (0.715)    84      1588                    14.95-  74.95    43.27
  3.901   3.894 (0.716)    51      1581                     0.42-  60.42    43.08
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.234   5.234 (0.961)    72      5115 2.97295    7.135  80.00- 120.00   100.00
  5.241   5.234 (0.962)    43     43553                   611.89- 671.89   851.33
  5.241   5.234 (0.962)    57      2475                    17.72-  77.72    48.38
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.621   5.613 (1.032)    84       372 0.07800   0.1872  80.00- 120.00   100.00(a)
  5.642   5.613 (1.035)    56      2298                   138.21- 198.21   617.68
  5.649   5.613 (1.037)    41      1826                    72.24- 132.24   490.74
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.950   5.950 (1.092)    57      2534 0.09864   0.2367  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
113 2,2,4-Trimethylpentane (continued)							
5.943	5.950 (1.091)	56	979			2.51- 62.51	38.62
5.936	5.950 (1.089)	41	2556			0.00- 58.92	100.87
116 Benzene					CAS #: 71-43-2		
5.964	5.964 (0.941)	78	4629	0.46020	1.104	80.00- 120.00	100.00(a)
5.964	5.964 (0.941)	77	1325			0.00- 54.04	28.64
121 Heptane					CAS #: 142-82-5		
6.122	6.122 (0.966)	71	963	0.25622	0.6149	80.00- 120.00	100.00(a)
6.129	6.122 (0.967)	43	3476			231.64- 291.64	360.62
6.129	6.122 (0.967)	57	2265			103.28- 163.28	235.03
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.476	7.476 (1.180)	58	1107	0.24564	0.5895	80.00- 120.00	100.00(a)
7.483	7.476 (1.181)	43	3052			264.26- 324.26	275.64
7.619	7.476 (1.202)	85	102			3.08- 63.08	9.27
147 Toluene					CAS #: 108-88-3		
7.605	7.605 (1.200)	91	19414	1.40241	3.366	80.00- 120.00	100.00
7.605	7.605 (1.200)	92	10058			28.28- 88.28	51.81
158 2-Hexanone					CAS #: 591-78-6		
8.163	8.163 (0.931)	58	2076	0.34168	0.8200	80.00- 120.00	100.00(a)
8.163	8.163 (0.931)	43	5503			175.82- 235.82	265.07
8.163	8.163 (0.931)	100	105			0.00- 45.85	5.09
169 m,p-Xylene					CAS #: 108-38-3		
8.944	8.951 (1.020)	106	2523	0.33983	0.8156	80.00- 120.00	100.00(a)
8.951	8.951 (1.020)	91	4067			167.63- 227.63	161.21

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: msdp.i
Lab File ID: p071922.d
Lab Smp Id: 1607235E-10A
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.7 Hg->15.1 psi

Calibration Date: 19-JUL-2016
Calibration Time: 11:28

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	85281	-10.48
123 1,4-Difluorobenze	379135	227481	530789	326339	-13.93
163 Chlorobenzene-d5	348612	209167	488057	298140	-14.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	0.00

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

Report Date: 27-Jul-2016 16:04

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 19jul16
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1607235E-10A
Level: LOW Operator: gh
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.7 Hg->15.1 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	26.438	105.75	70-130
$ 146 Toluene-d8	25.000	25.080	100.32	70-130
$ 177 4-Bromofluorobenze	25.000	22.910	91.64	70-130

Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

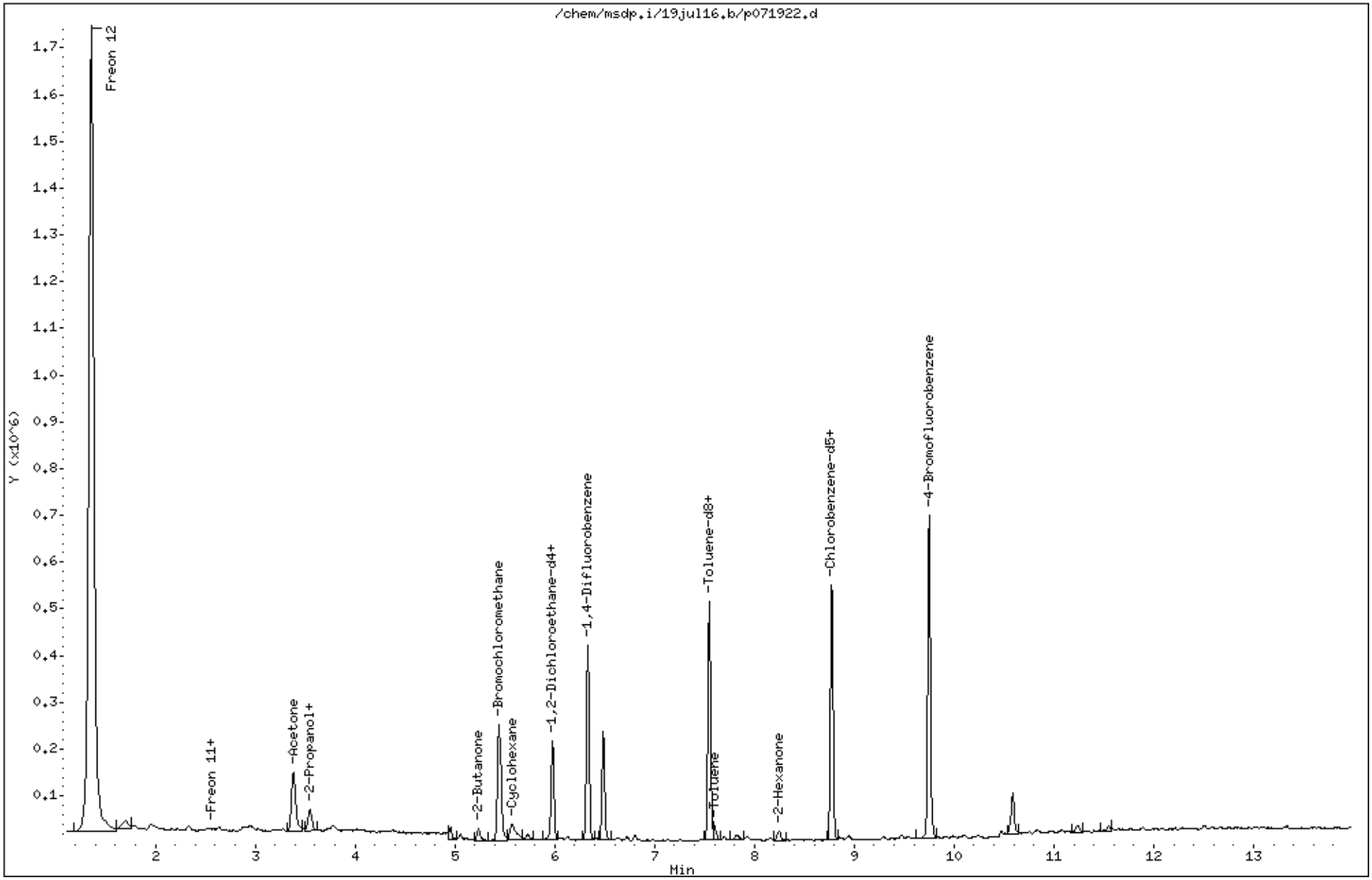
Sample Info: 200ml 8031

Column phase: RTX-624

Instrument: msdp.i

Operator: gh

Column diameter: 0.25



Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

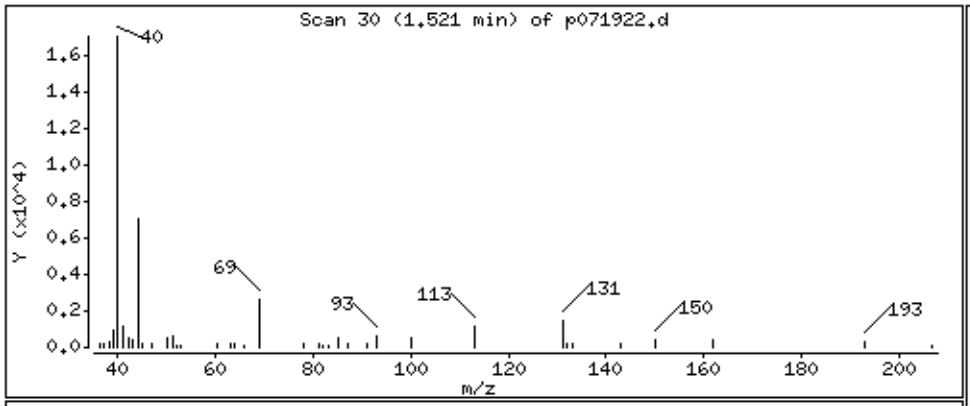
Operator: gh

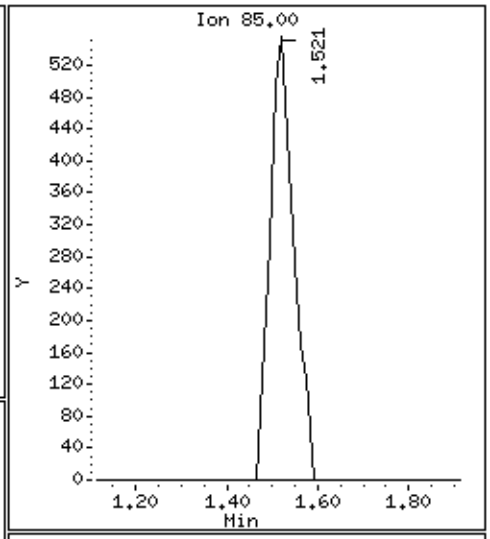
Column phase: RTX-624

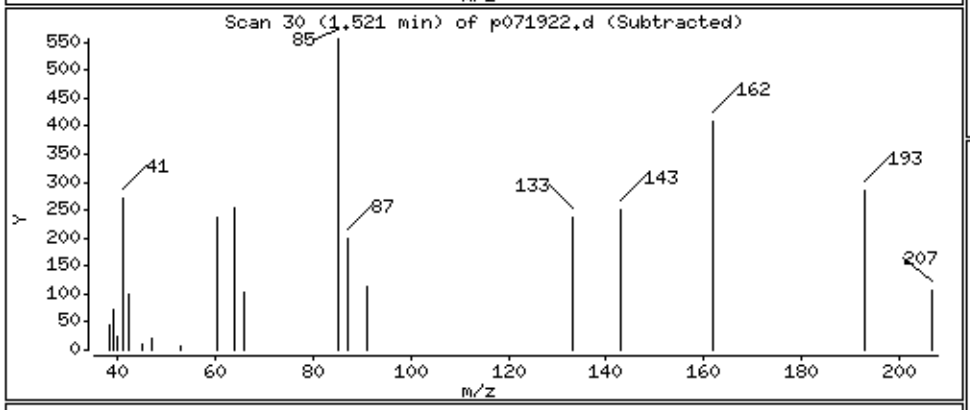
Column diameter: 0.25

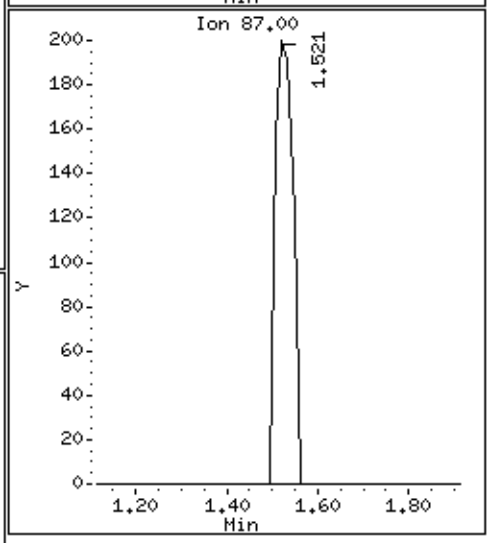
11 Freon 12

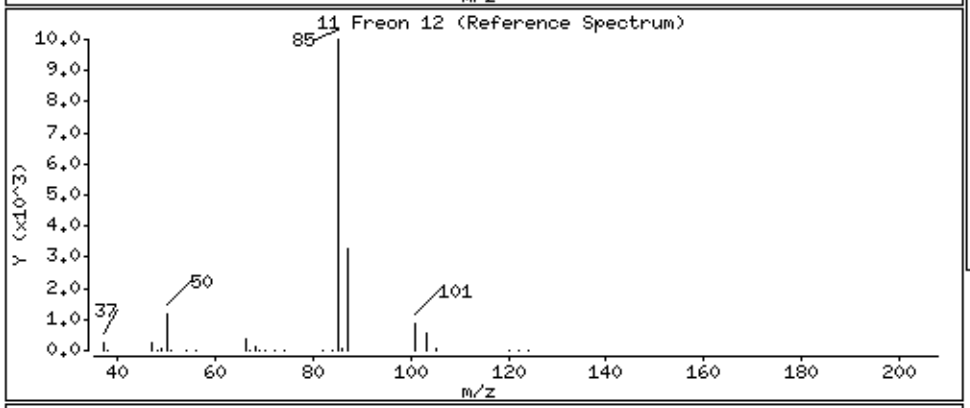
Concentration: 0.5082 PPBV

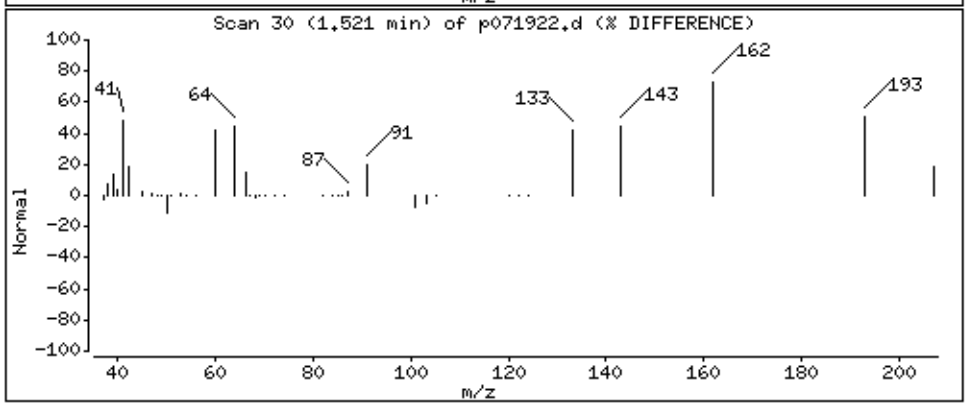












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

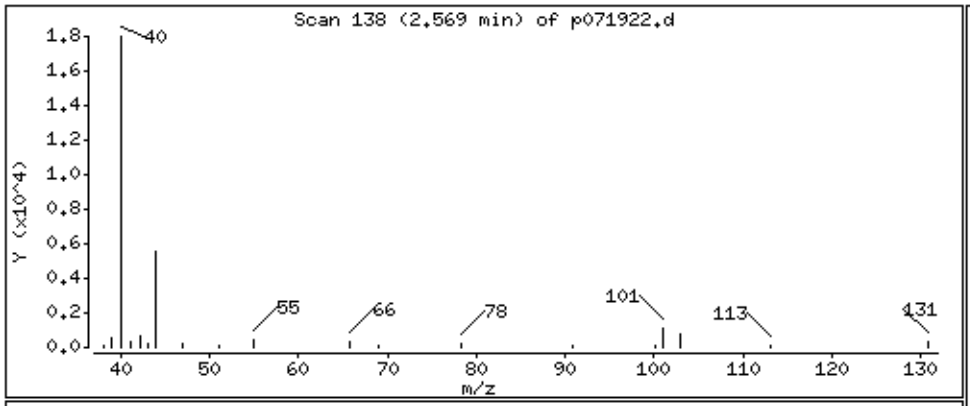
Operator: gh

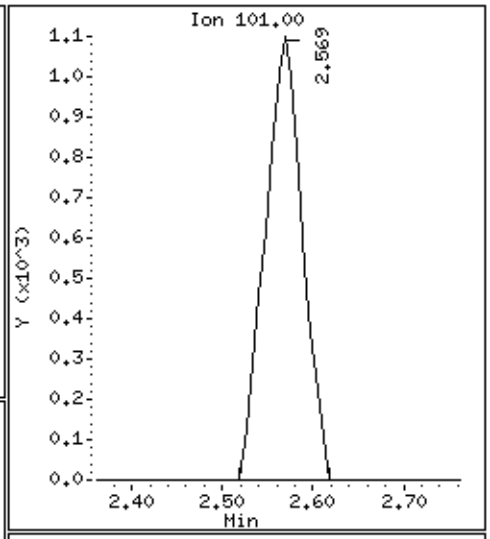
Column phase: RTX-624

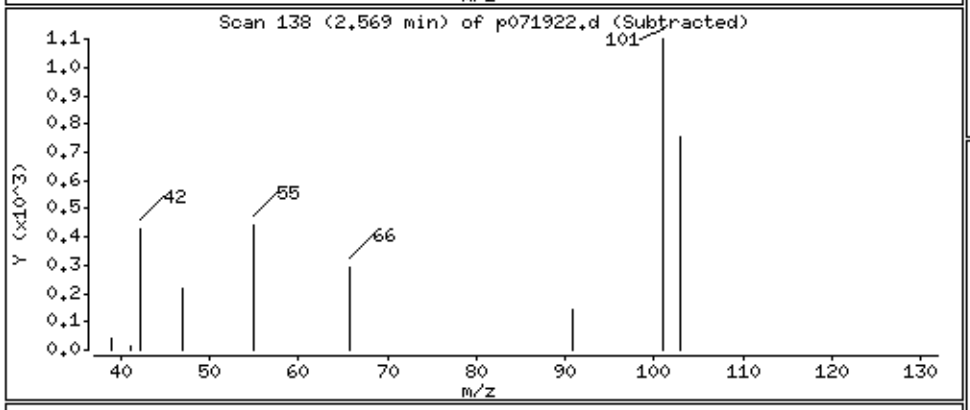
Column diameter: 0.25

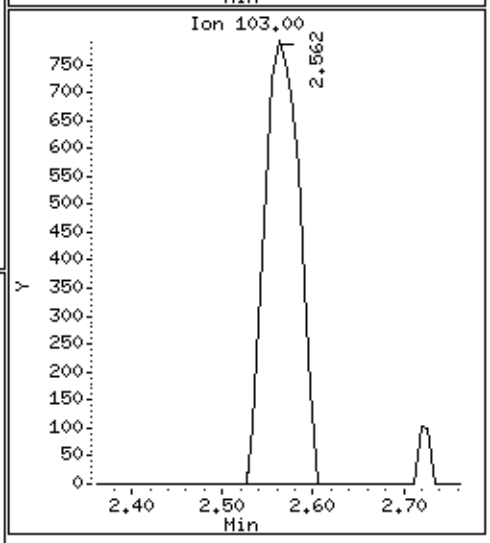
35 Freon 11

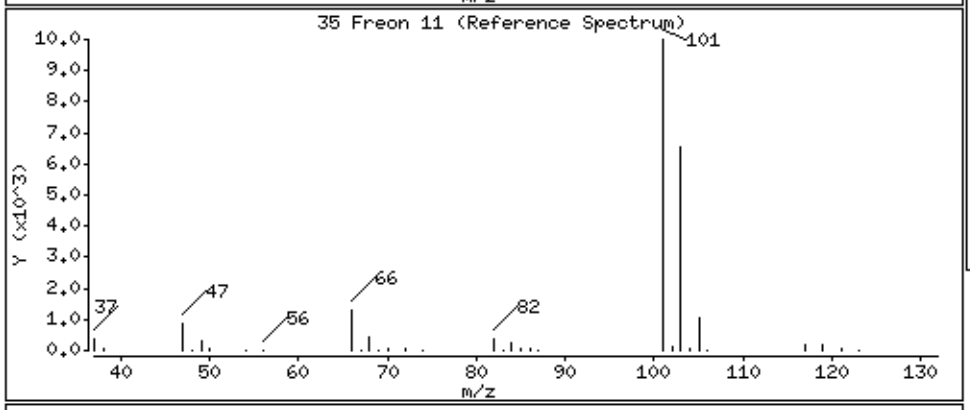
Concentration: 0.7420 PPBV

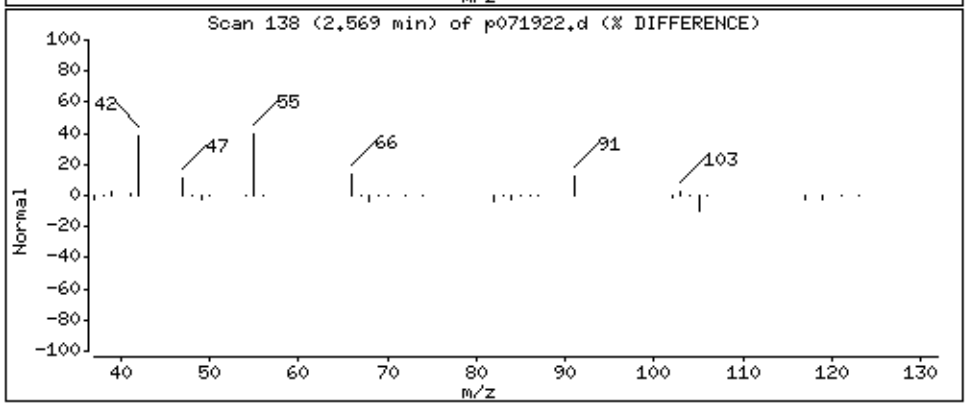












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

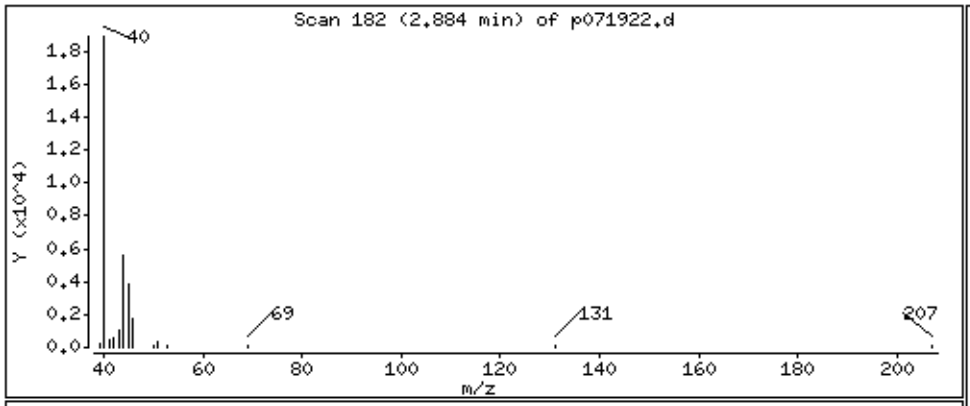
Operator: gh

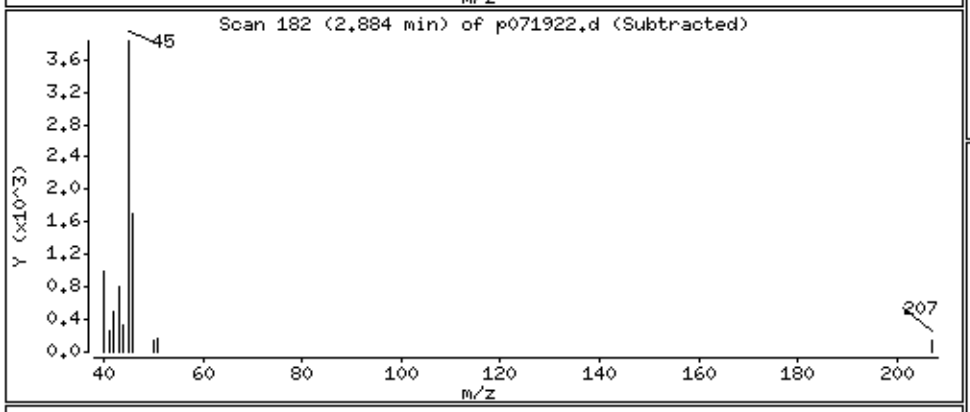
Column phase: RTX-624

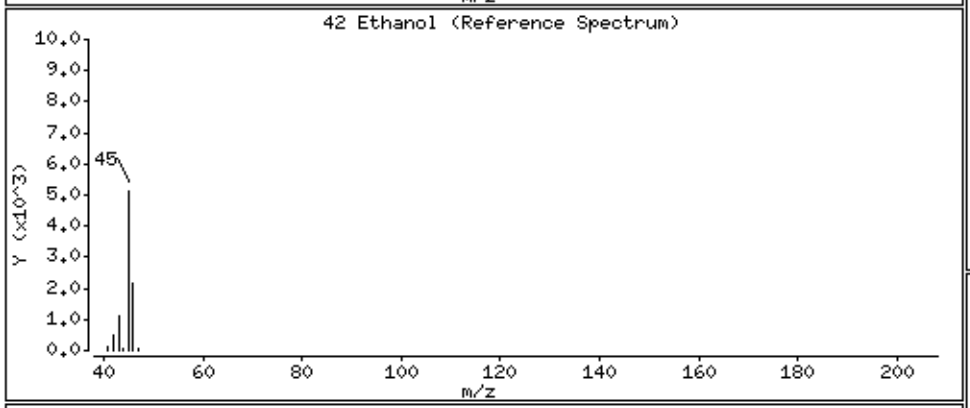
Column diameter: 0.25

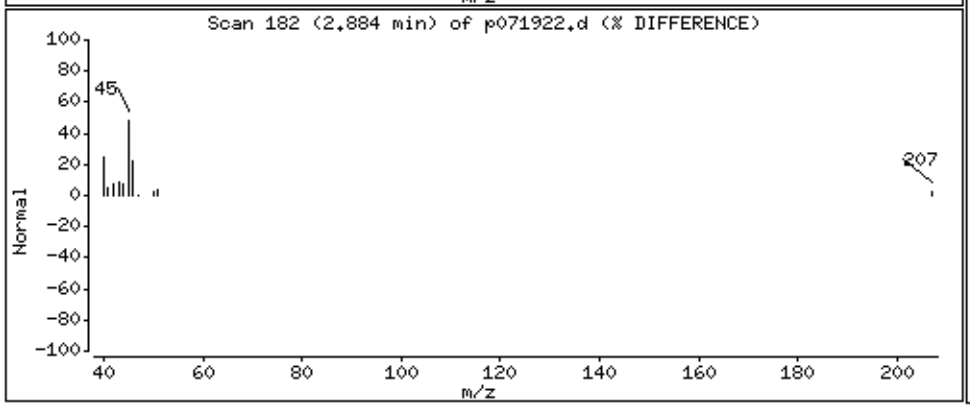
42 Ethanol

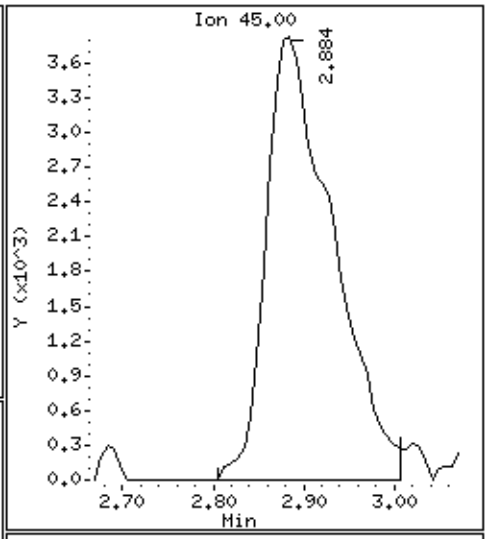
Concentration: 23.919 PPBV

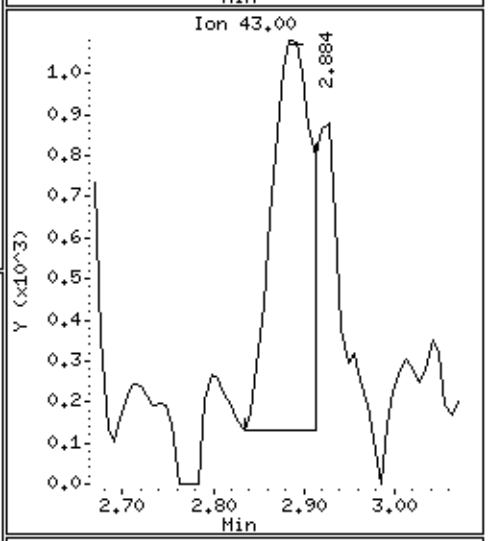


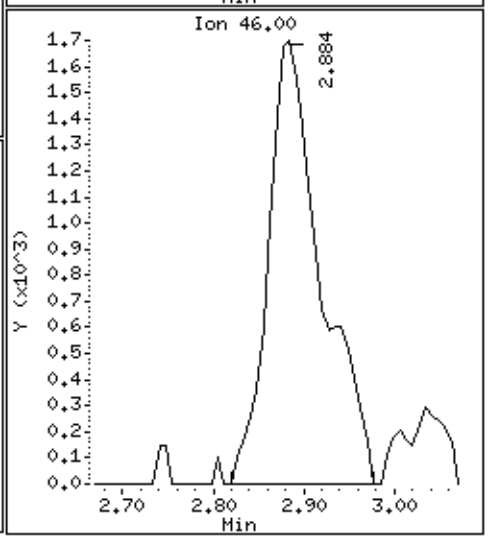












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

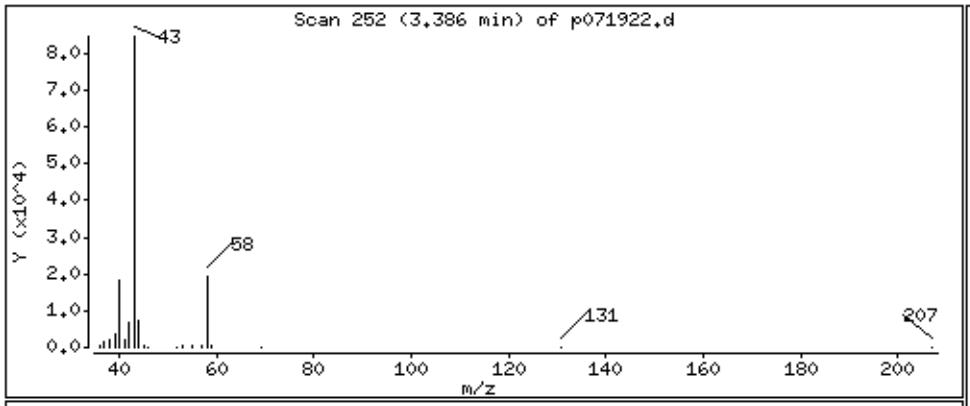
Operator: gh

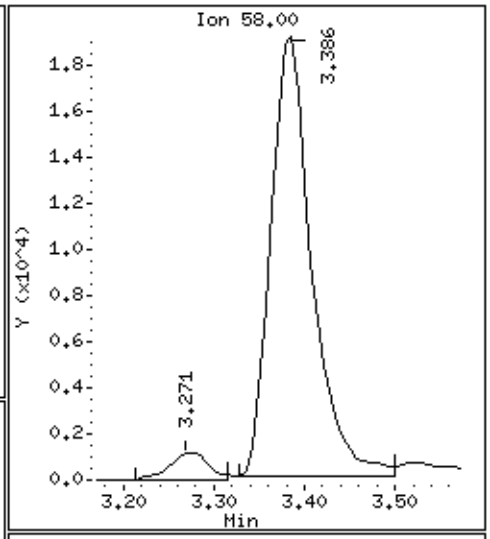
Column phase: RTX-624

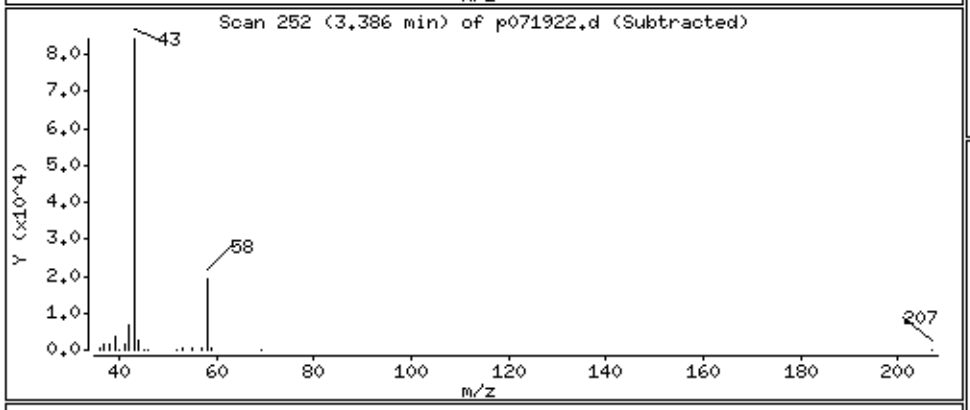
Column diameter: 0.25

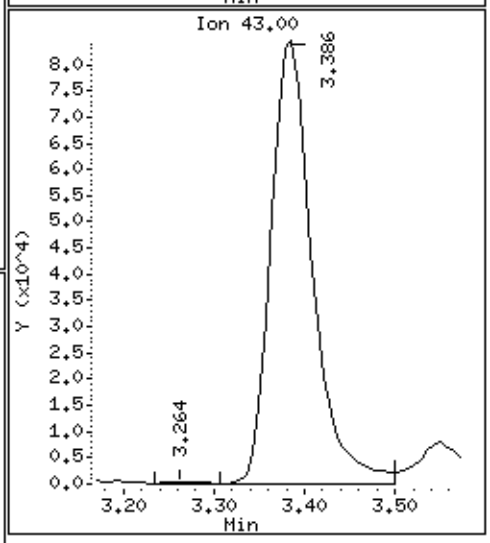
52 Acetone

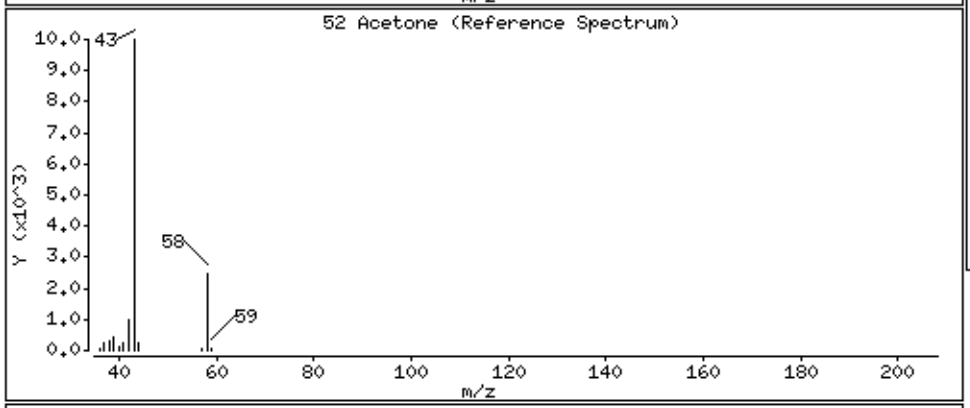
Concentration: 63.102 PPBV

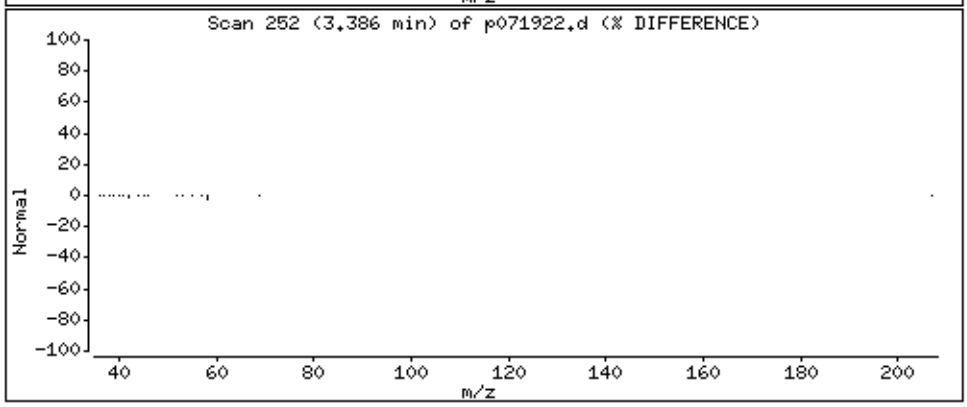












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

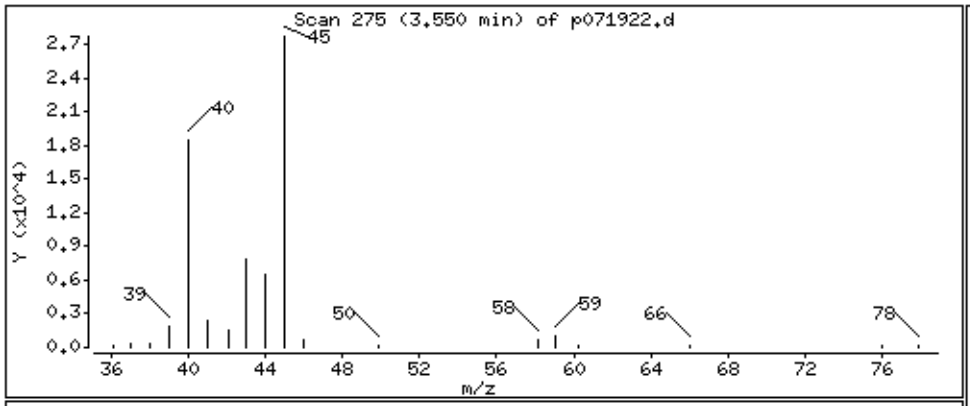
Operator: gh

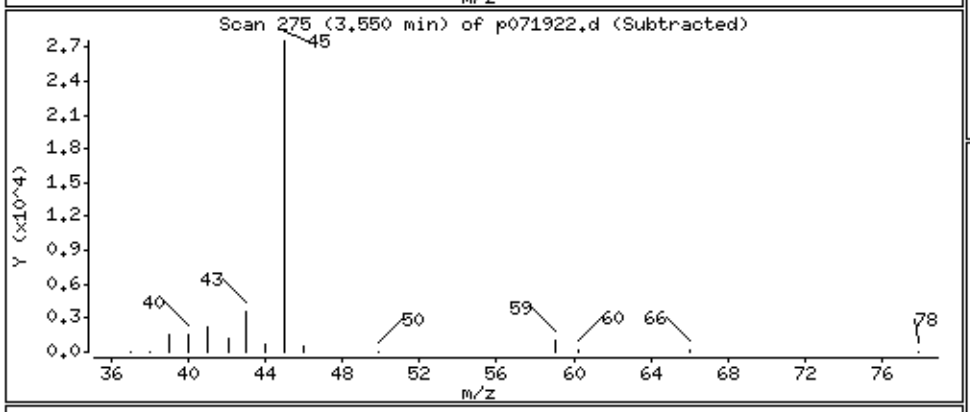
Column phase: RTX-624

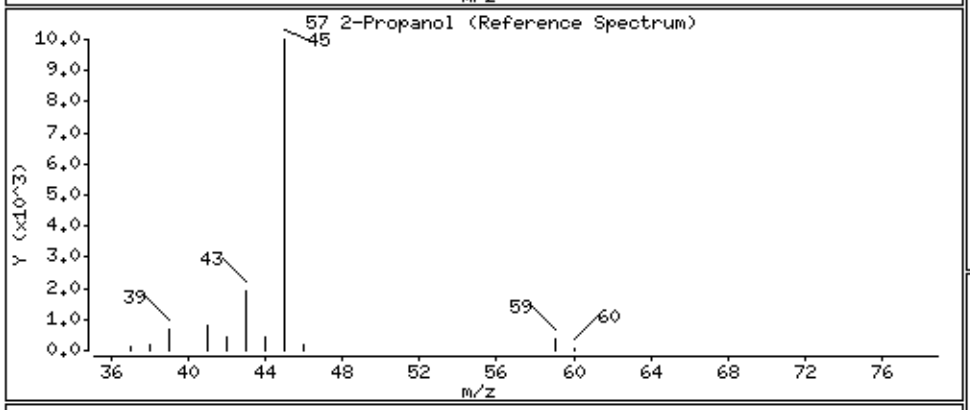
Column diameter: 0.25

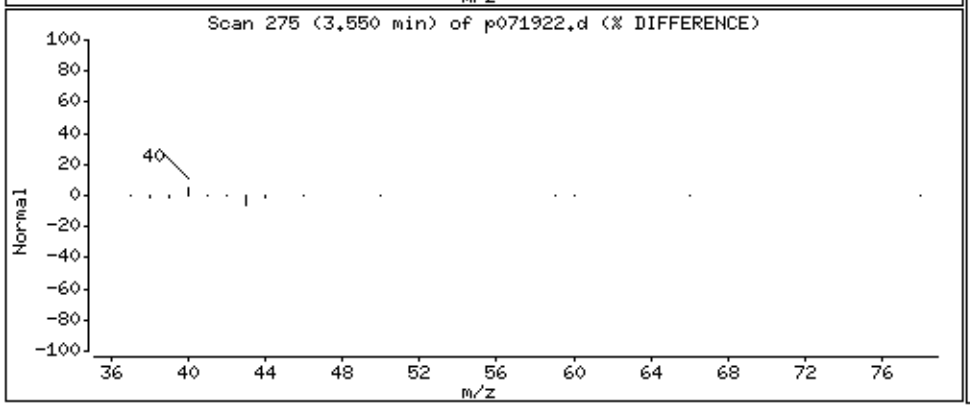
57 2-Propanol

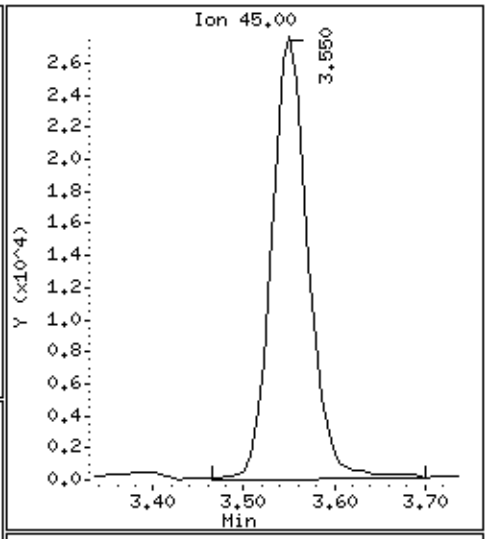
Concentration: 18.800 PPBV

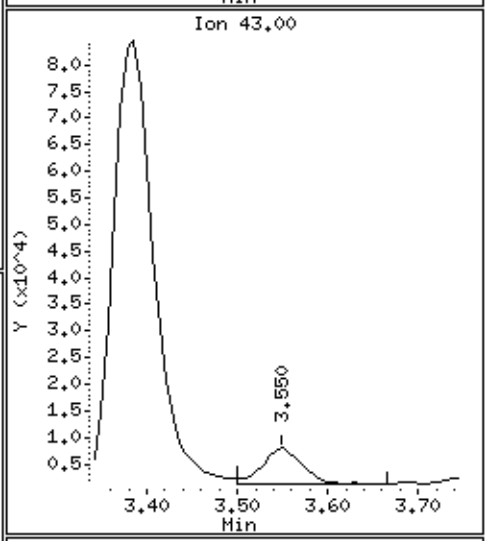


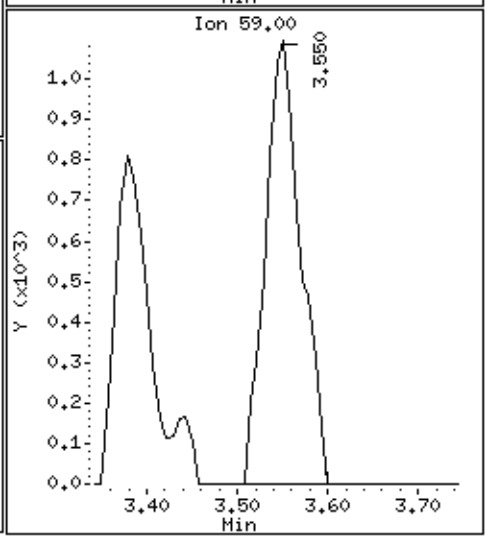












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

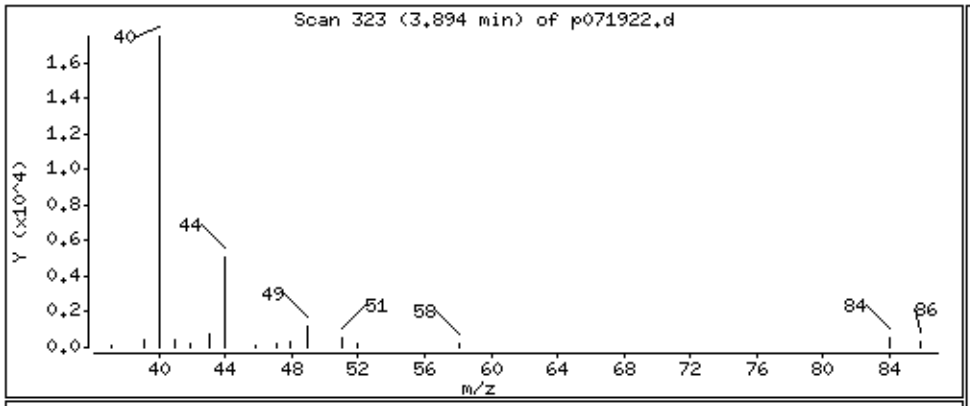
Operator: gh

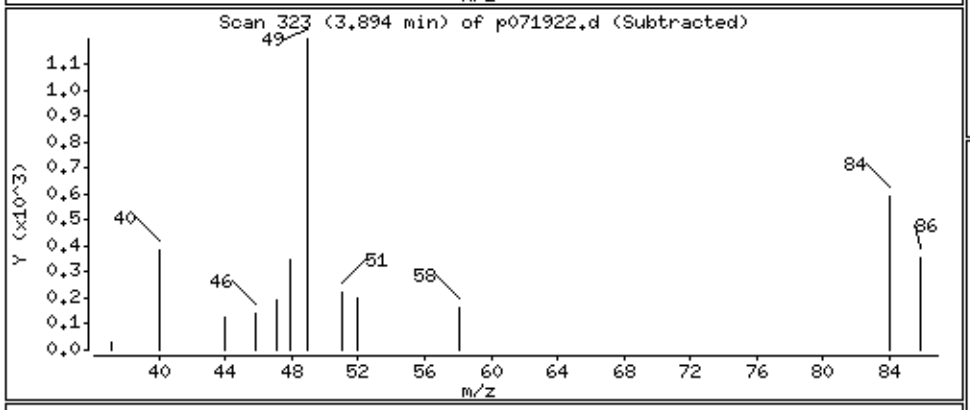
Column phase: RTX-624

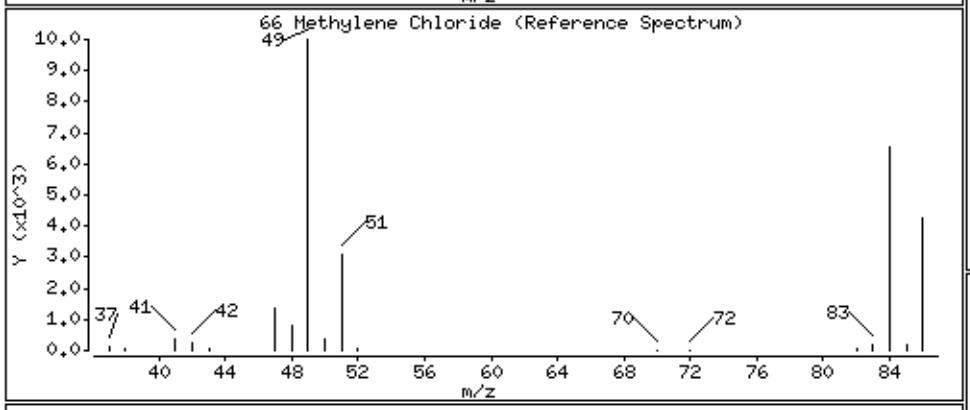
Column diameter: 0.25

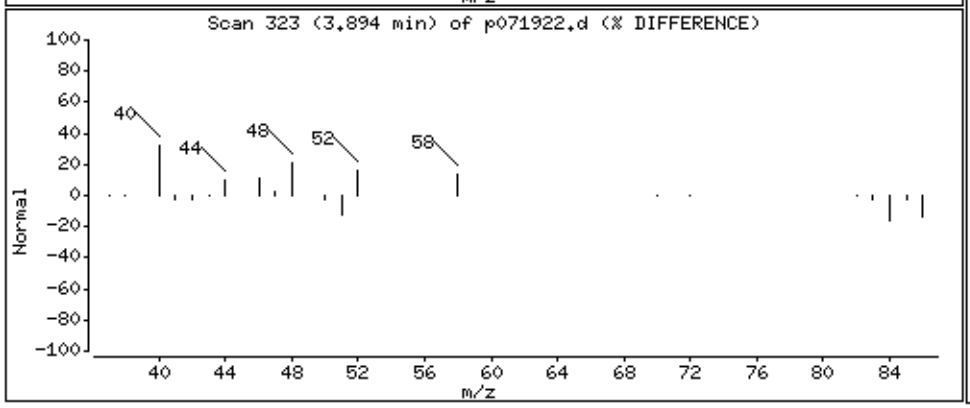
66 Methylene Chloride

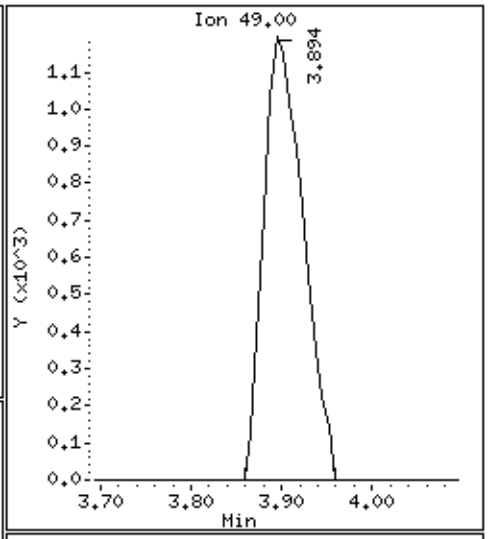
Concentration: 1.339 PPBV

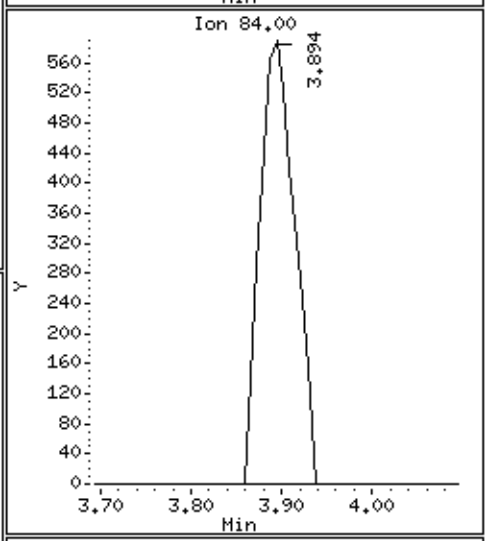


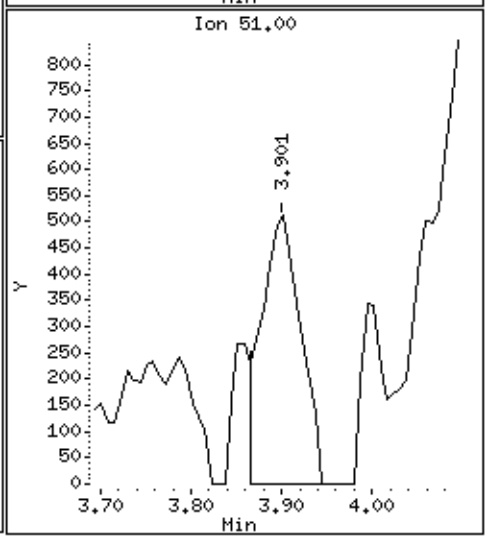












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

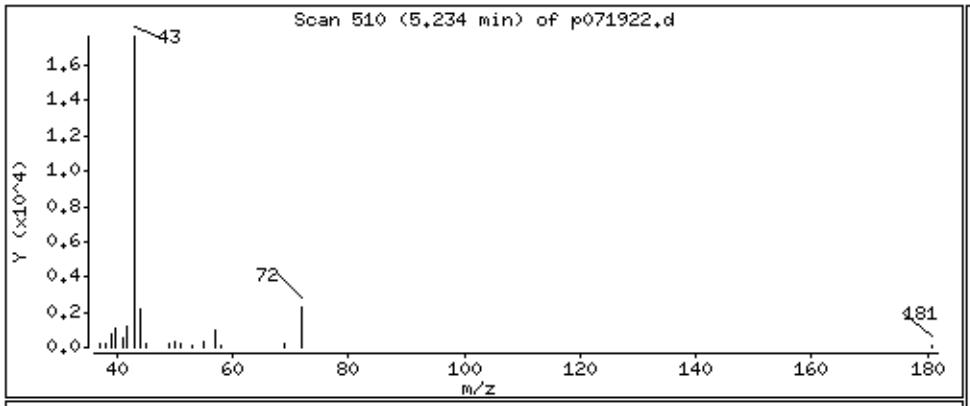
Operator: gh

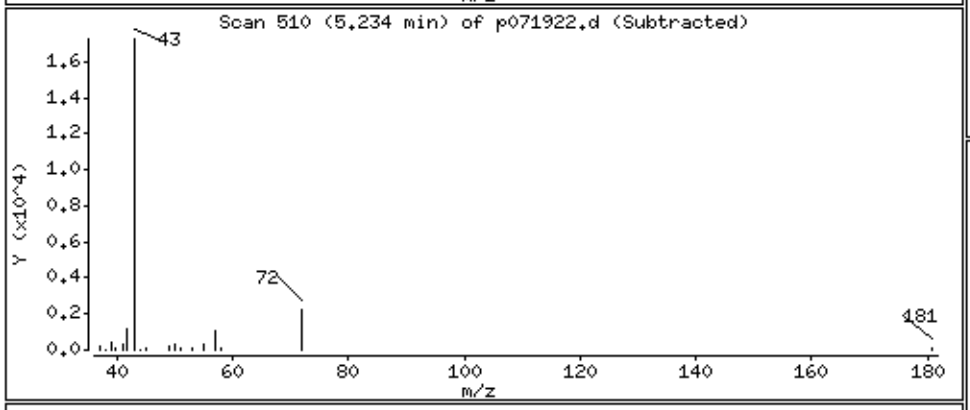
Column phase: RTX-624

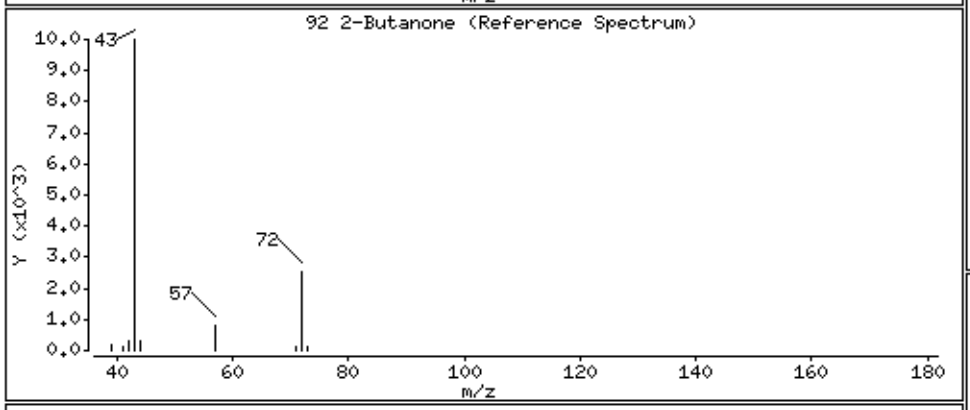
Column diameter: 0.25

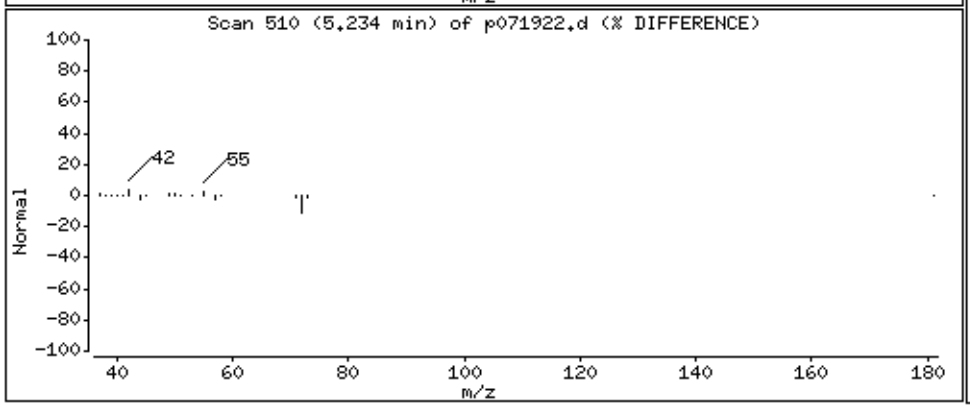
92 2-Butanone

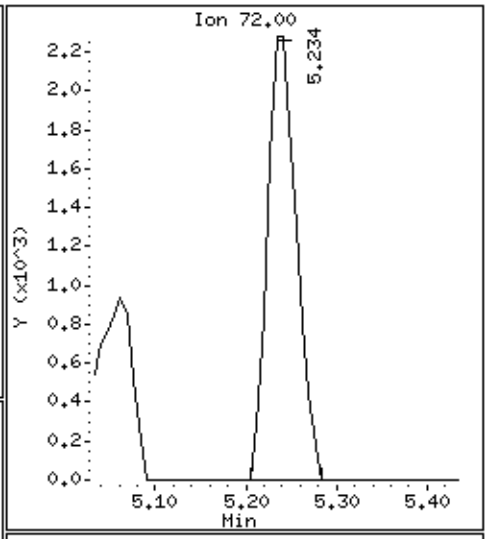
Concentration: 7.135 PPBV

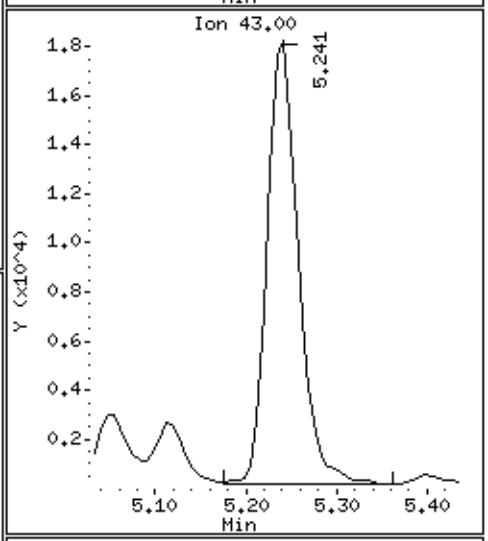


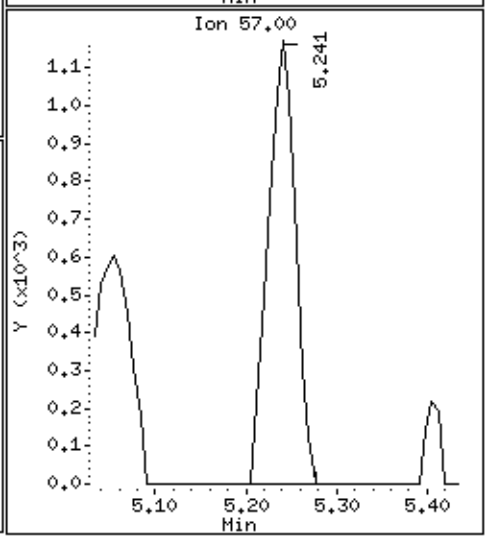












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

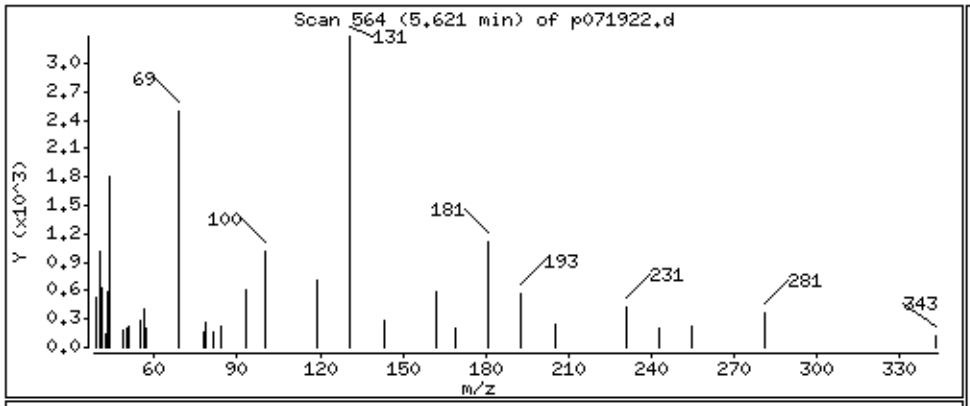
Operator: gh

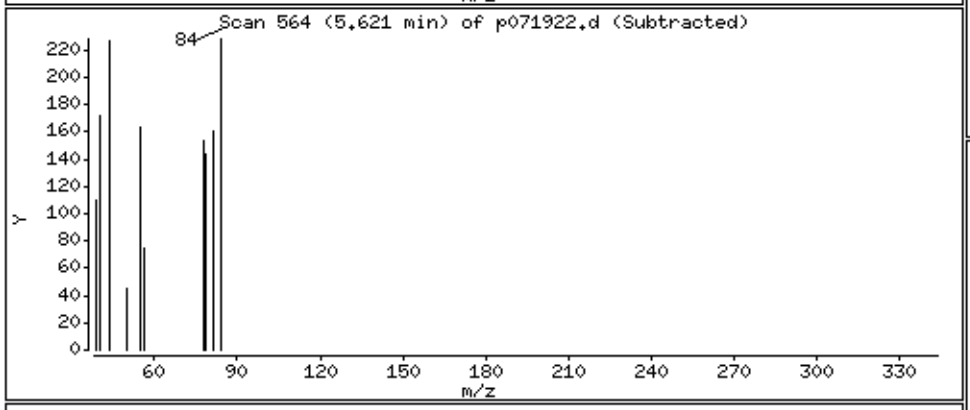
Column phase: RTX-624

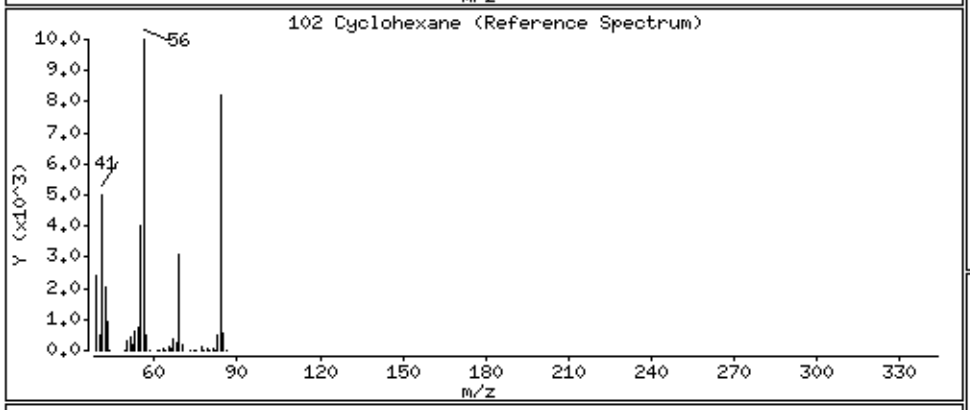
Column diameter: 0.25

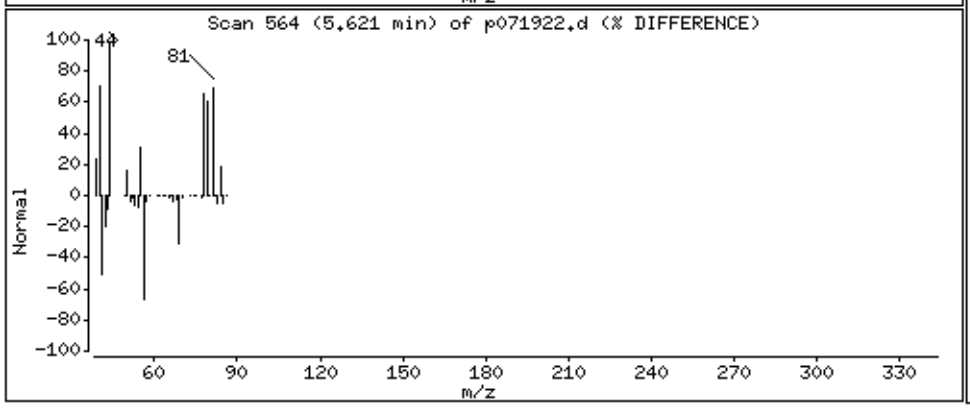
102 Cyclohexane

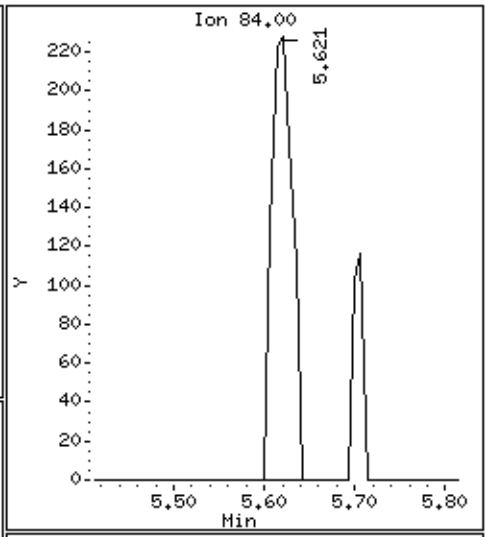
Concentration: 0.1872 PPBV

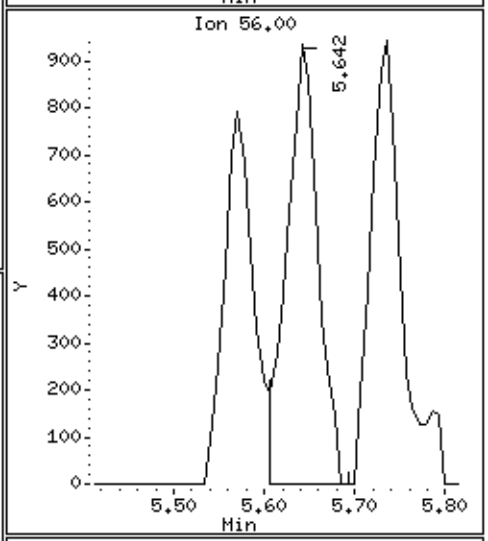


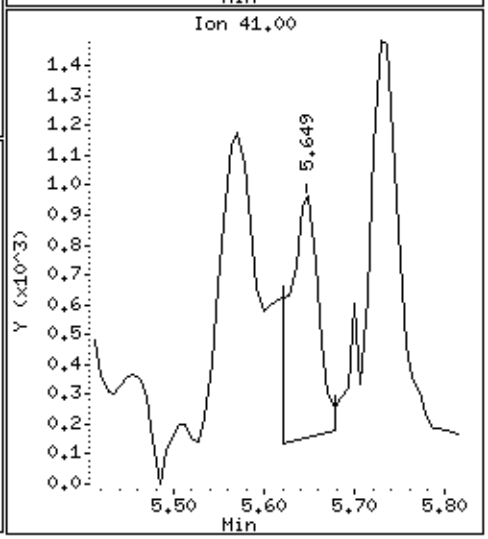












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

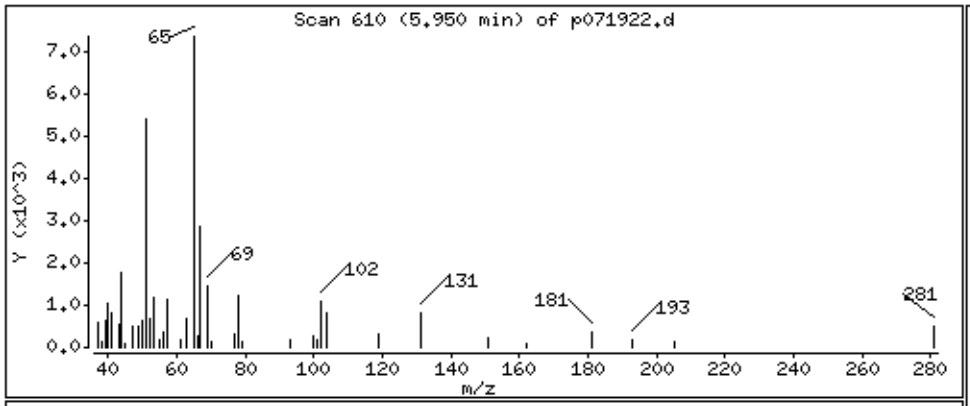
Operator: gh

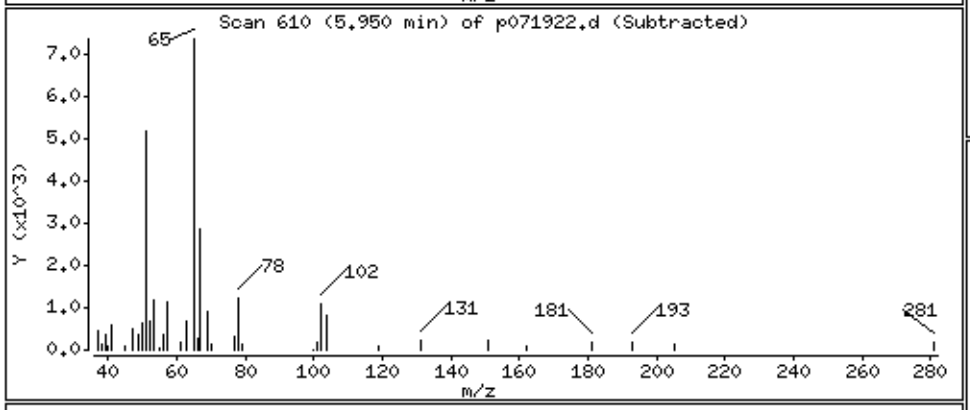
Column phase: RTX-624

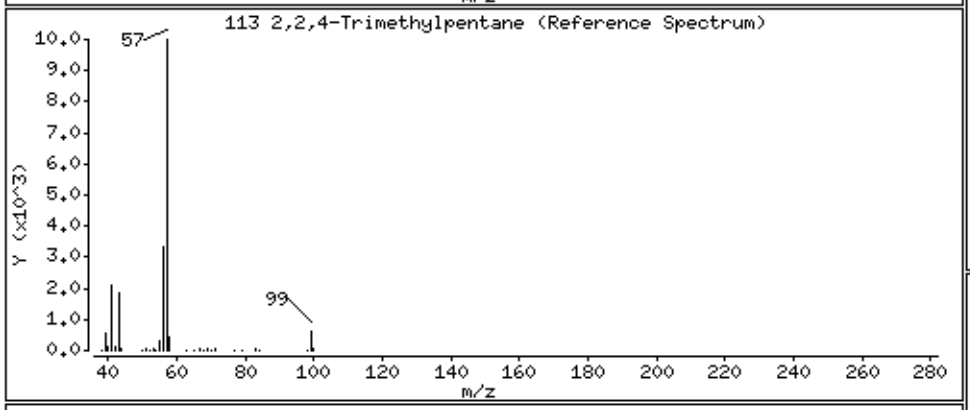
Column diameter: 0.25

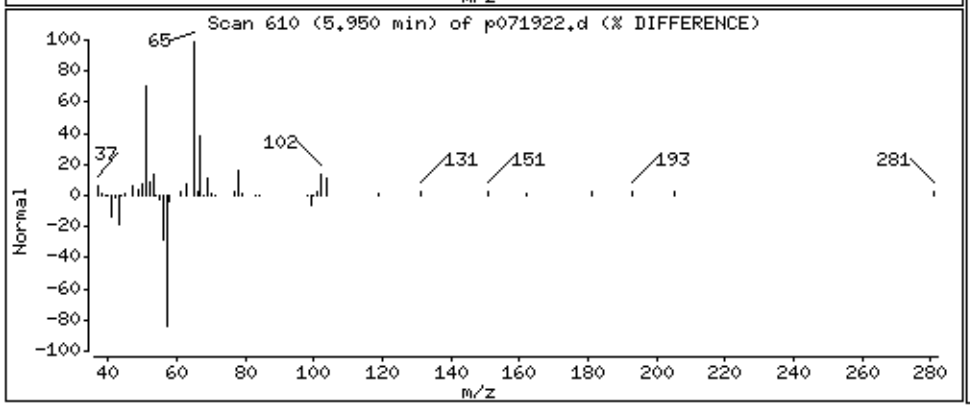
113 2,2,4-Trimethylpentane

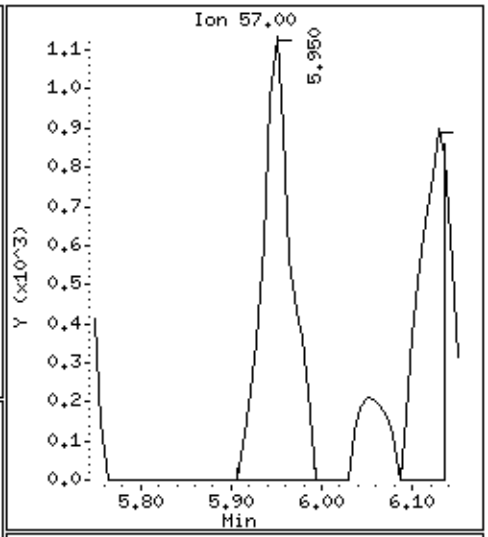
Concentration: 0.2367 PPBV

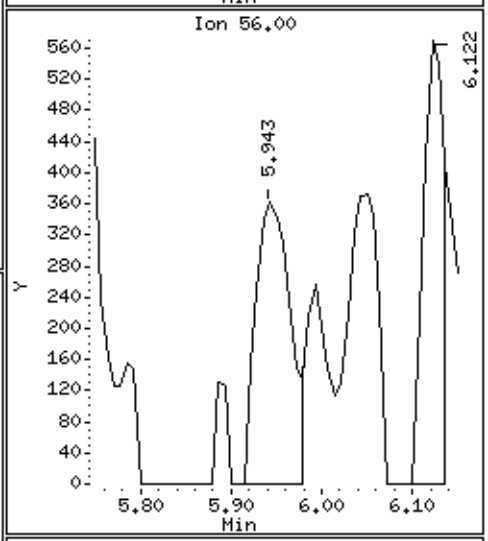


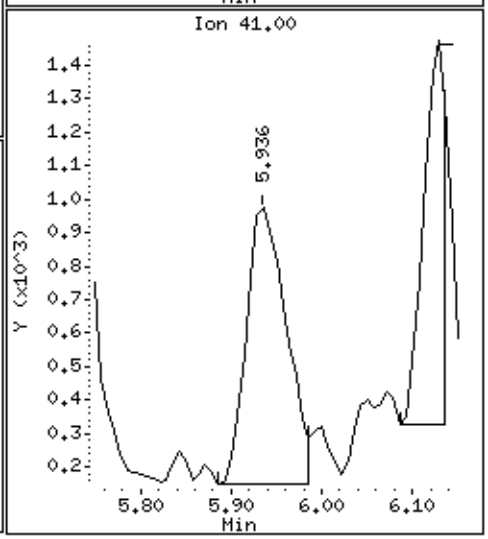












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

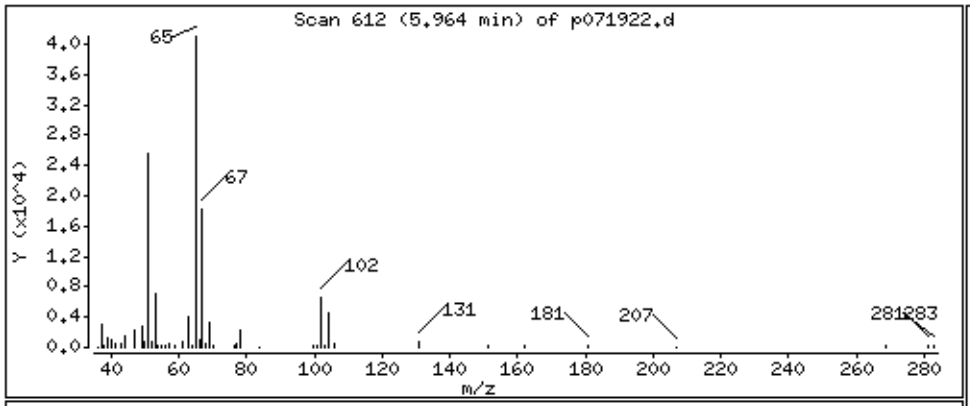
Operator: gh

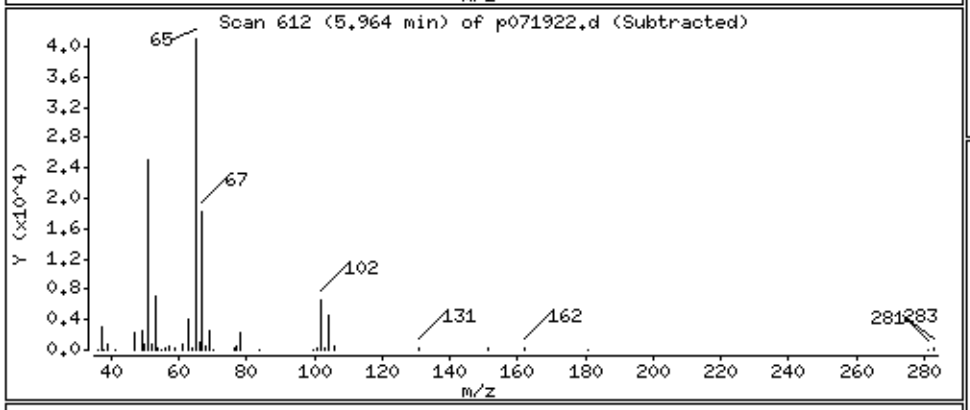
Column phase: RTX-624

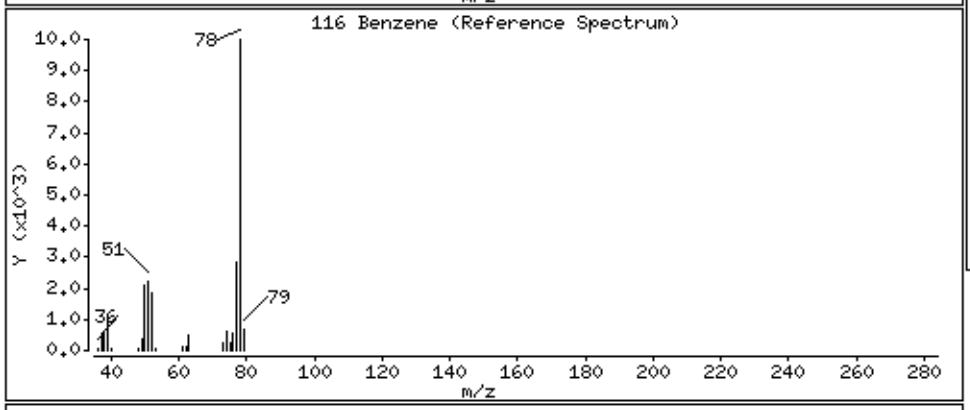
Column diameter: 0.25

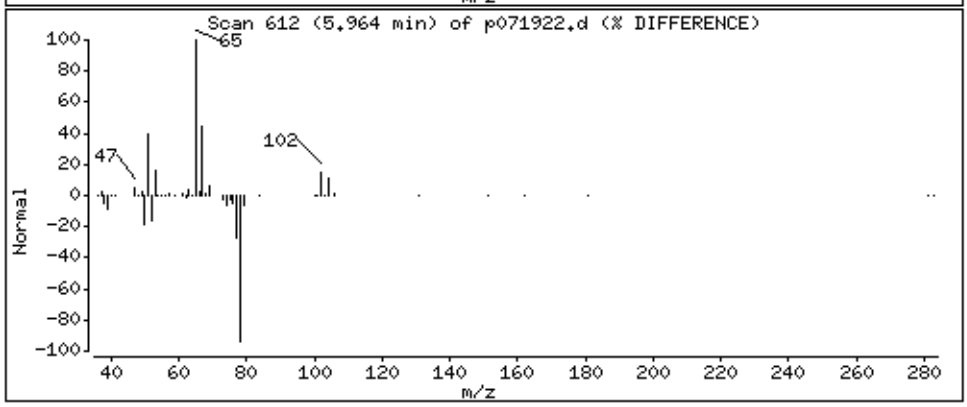
116 Benzene

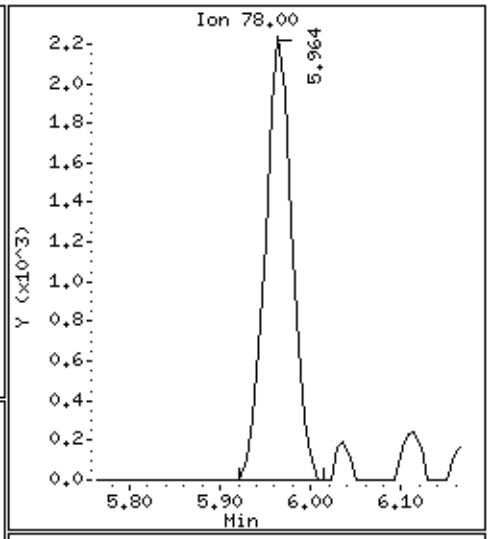
Concentration: 1.104 PPBV

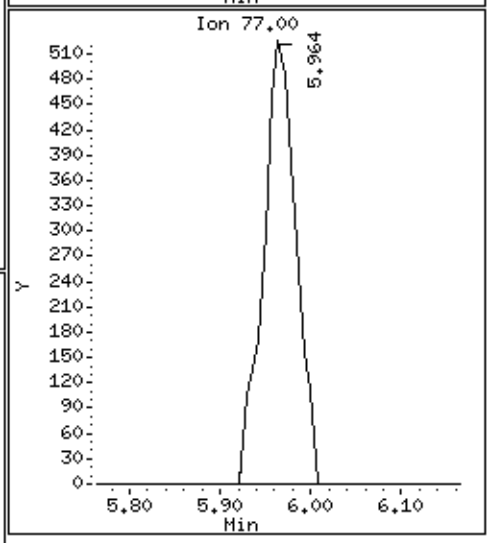












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

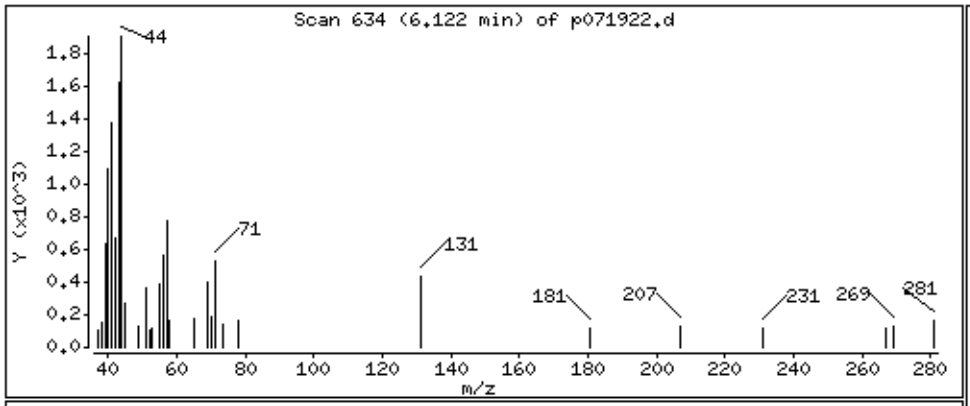
Operator: gh

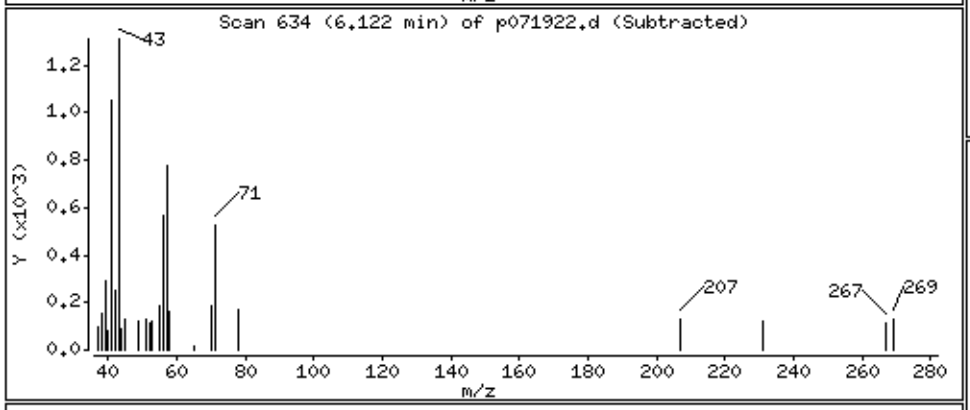
Column phase: RTX-624

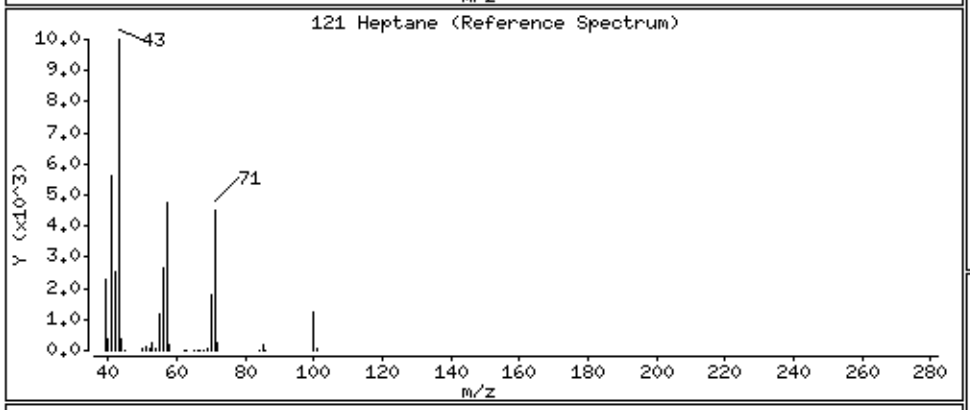
Column diameter: 0.25

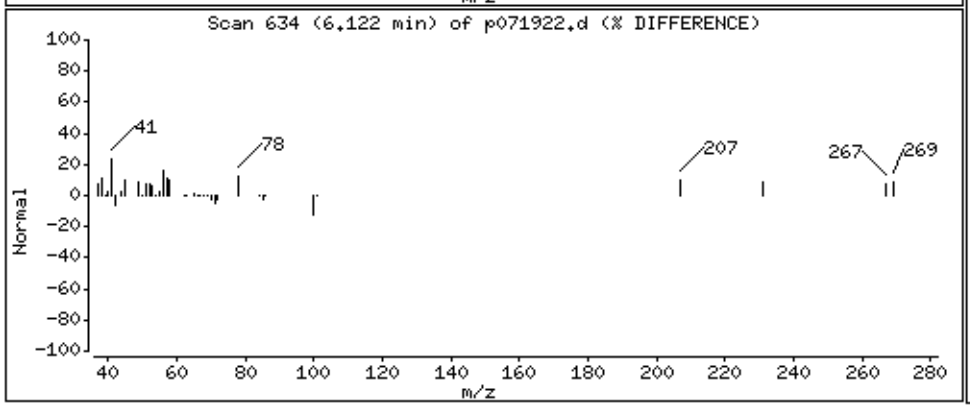
121 Heptane

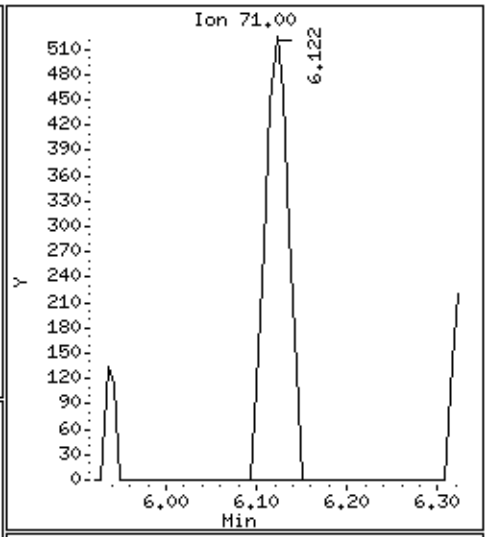
Concentration: 0.6149 PPBV

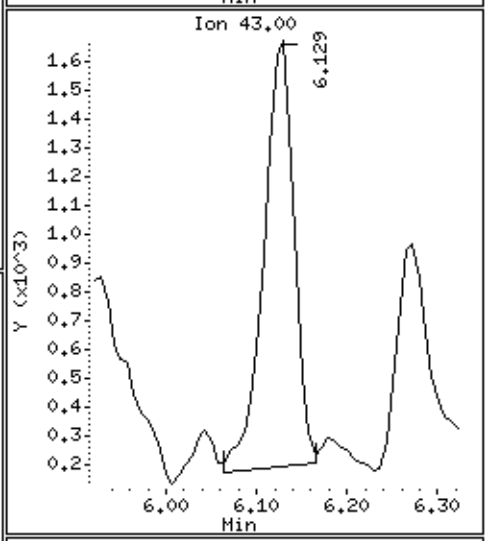


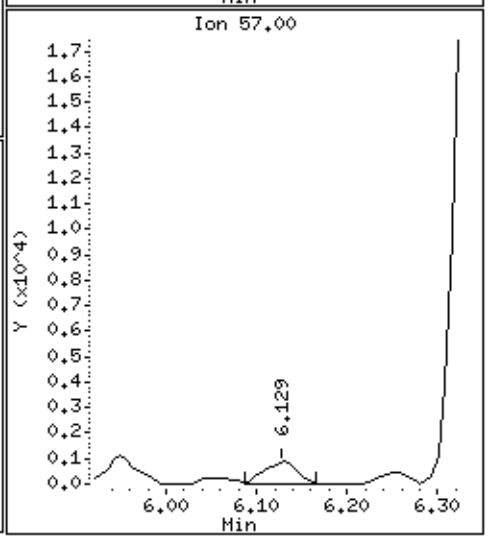












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

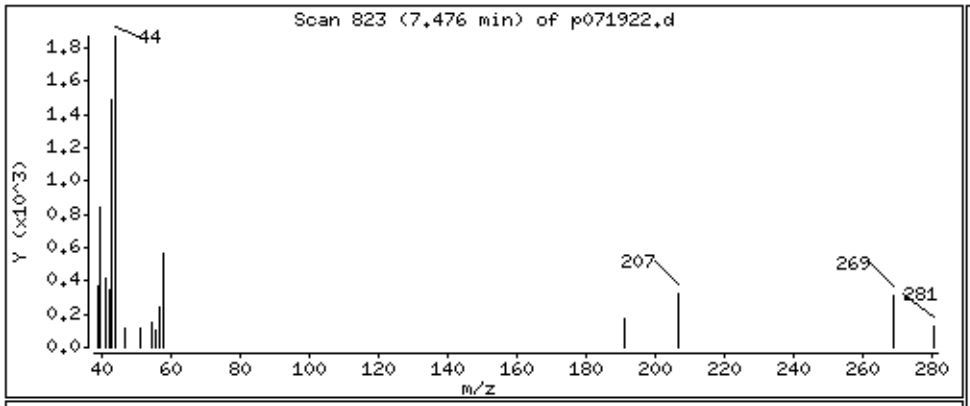
Operator: gh

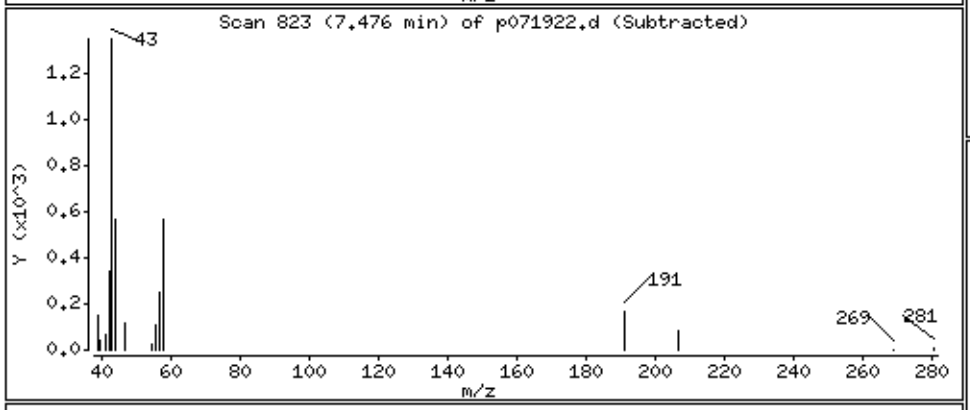
Column phase: RTX-624

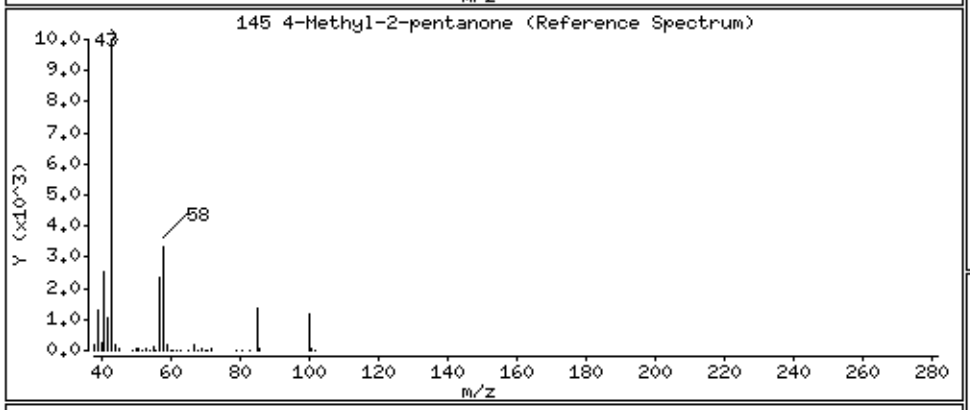
Column diameter: 0.25

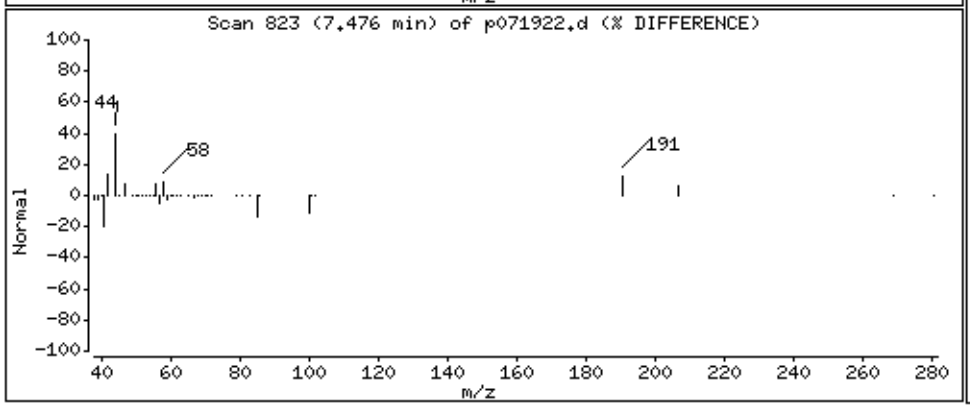
145 4-Methyl-2-pentanone

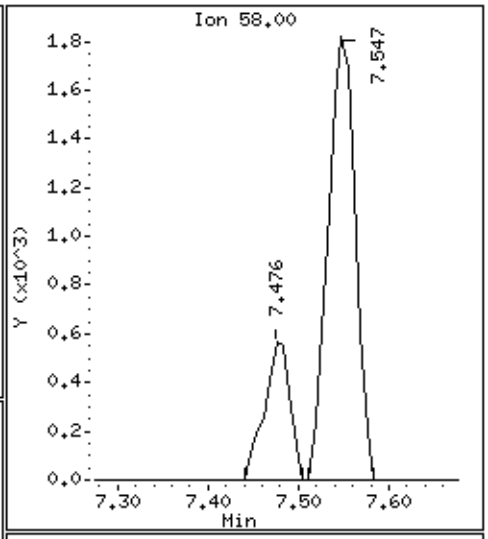
Concentration: 0.5895 PPBV

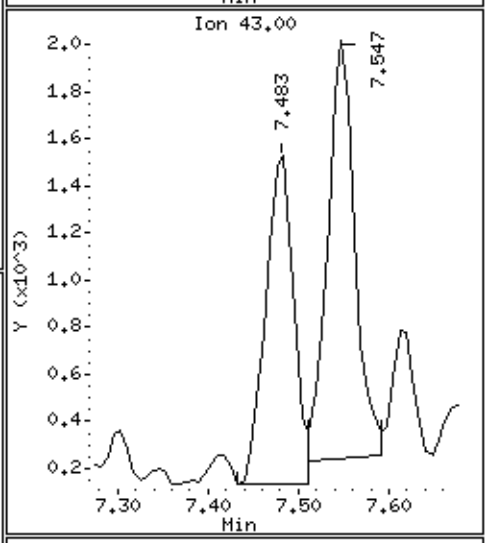


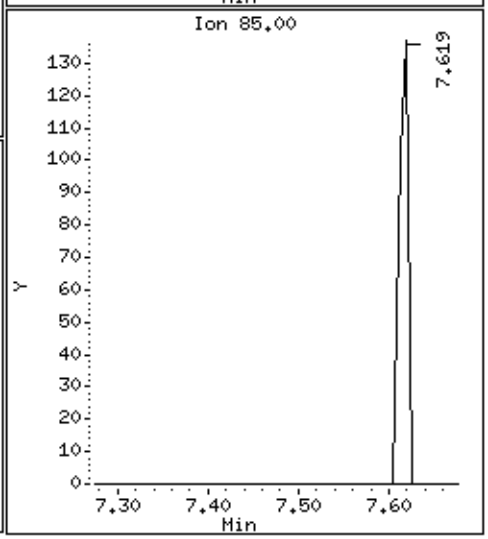












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

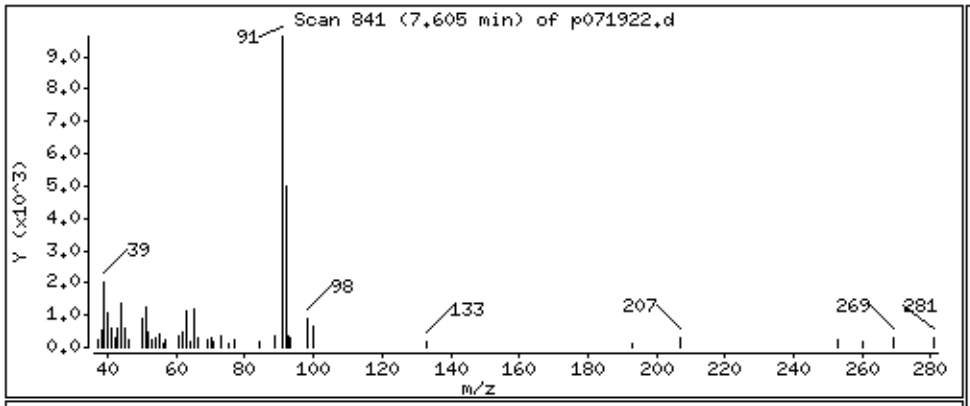
Operator: gh

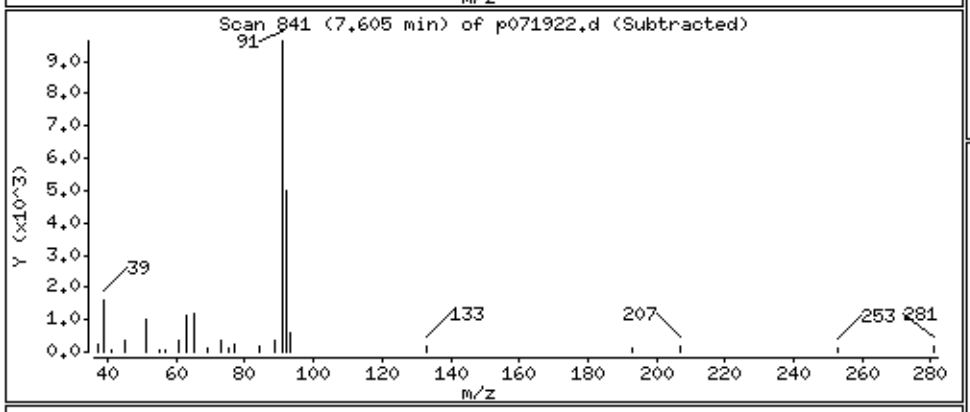
Column phase: RTX-624

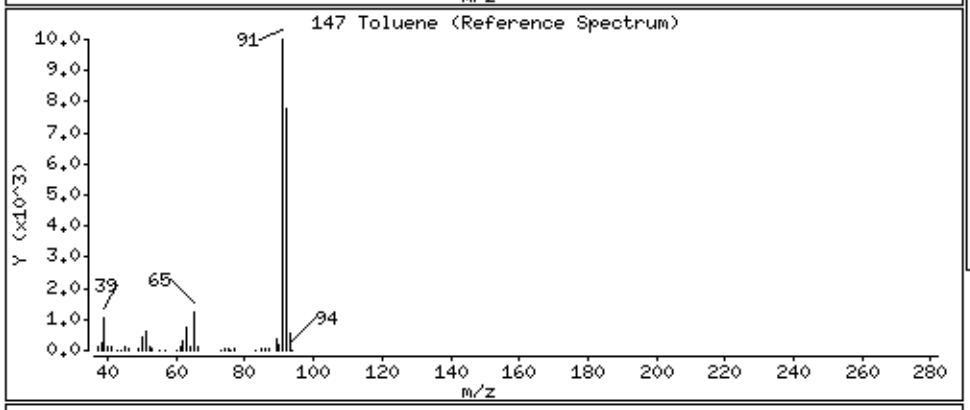
Column diameter: 0.25

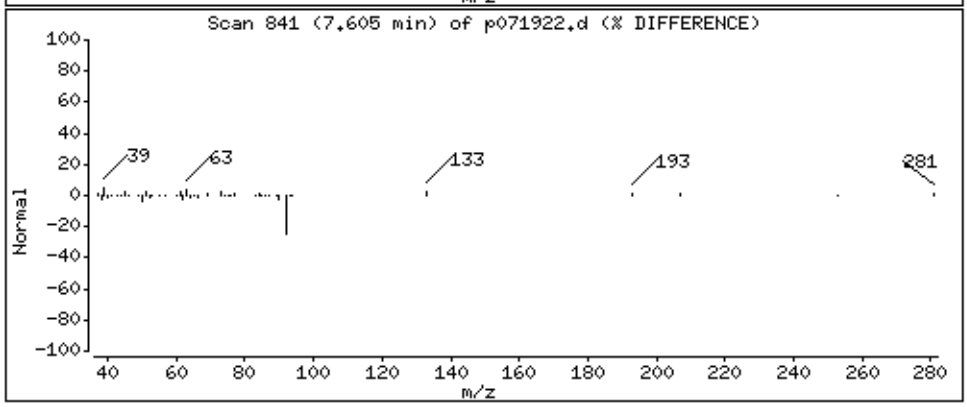
147 Toluene

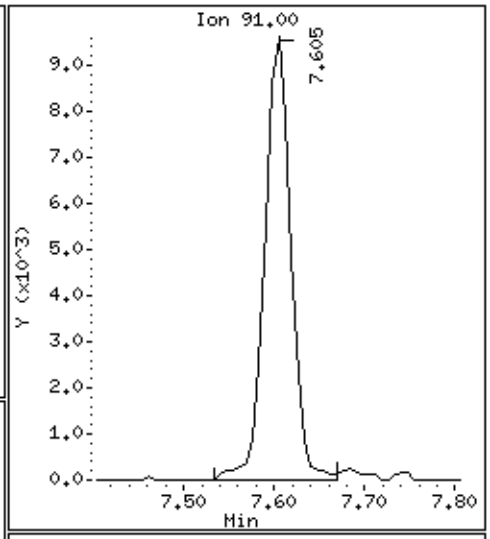
Concentration: 3.366 PPBV

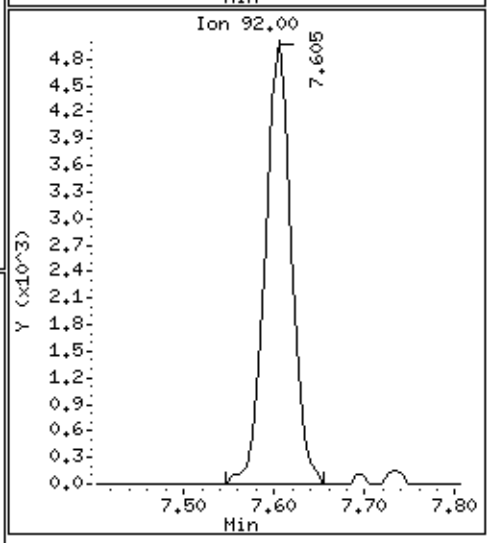












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

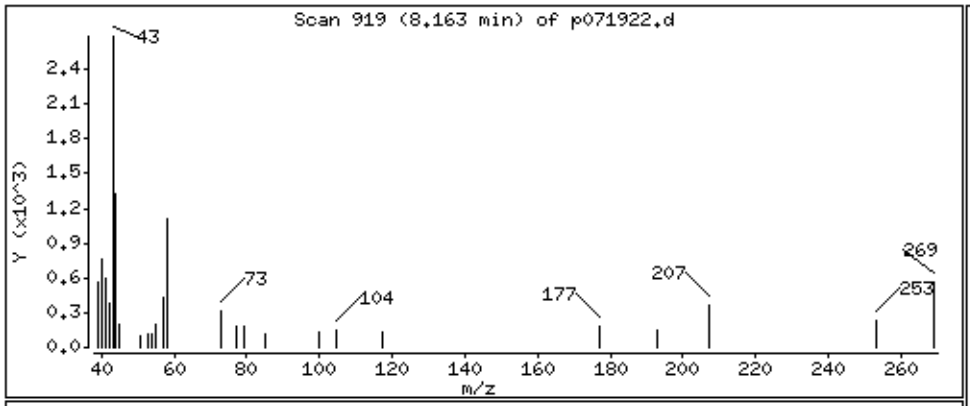
Operator: gh

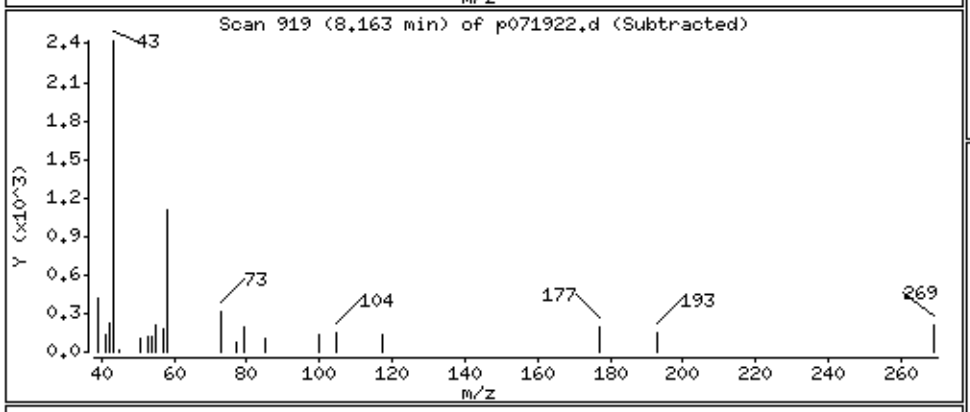
Column phase: RTX-624

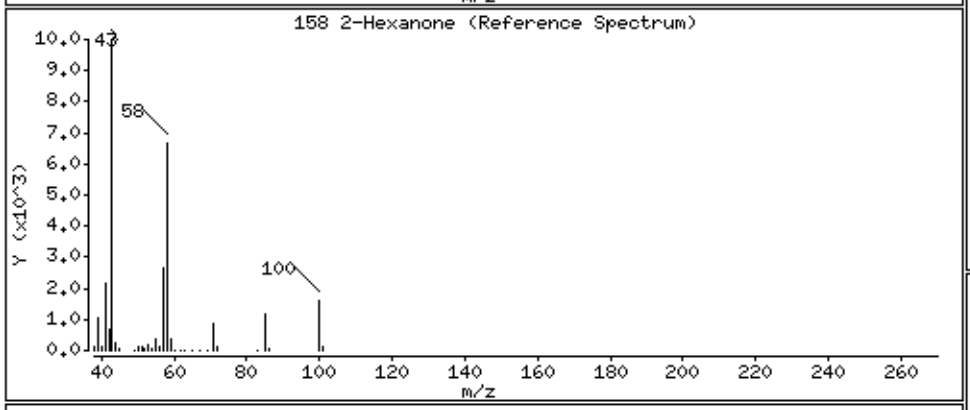
Column diameter: 0.25

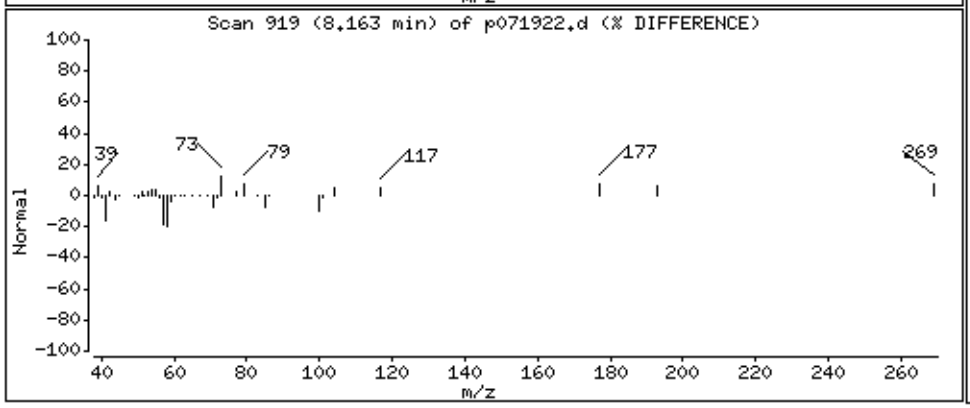
158 2-Hexanone

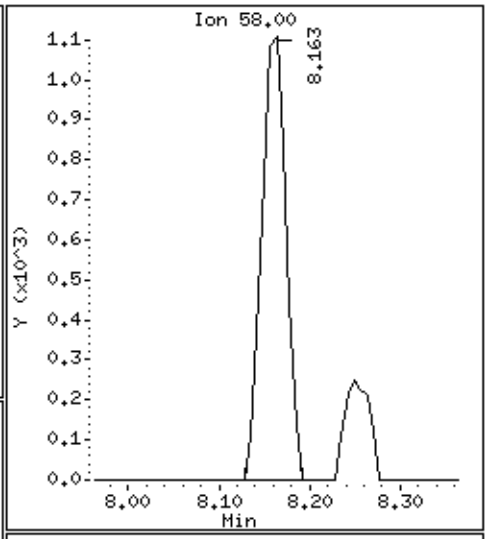
Concentration: 0.8200 PPBV

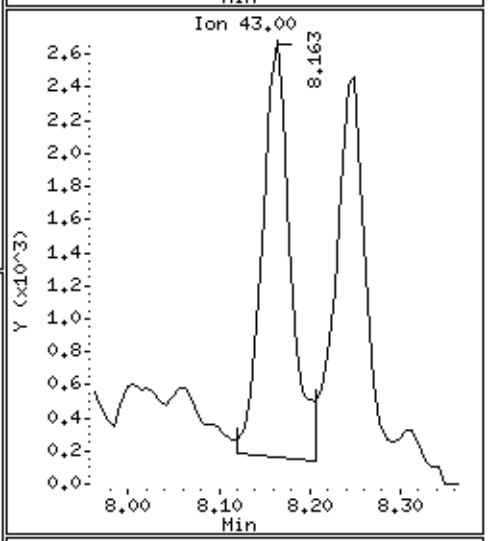


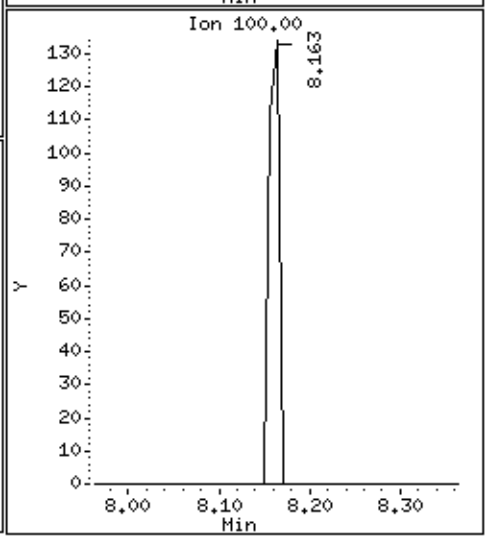












Data File: /chem/msdp.i/19jul16.b/p071922.d

Date : 19-JUL-2016 23:36

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8031

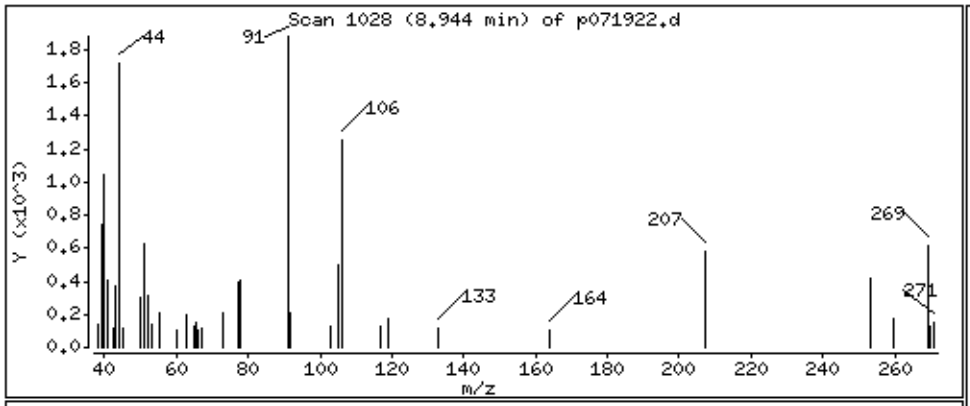
Operator: gh

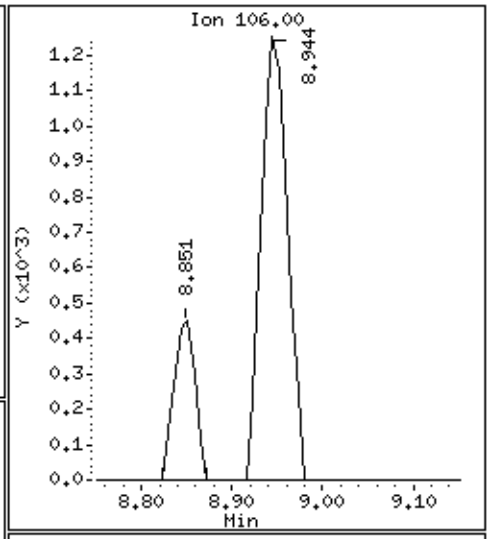
Column phase: RTX-624

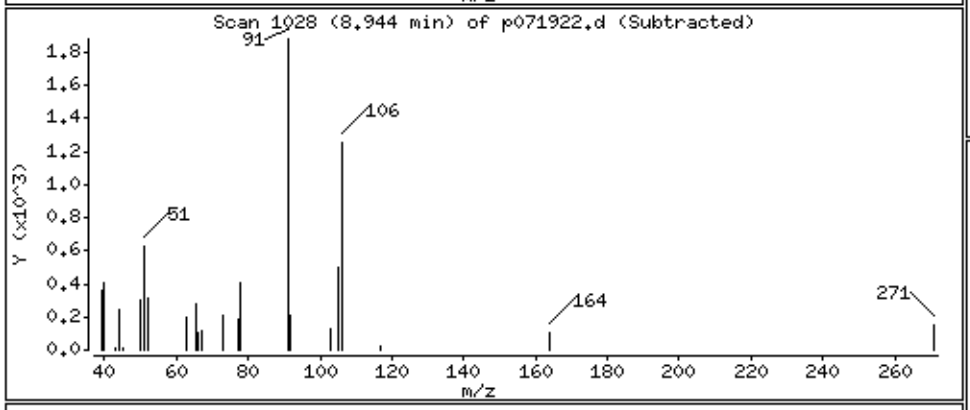
Column diameter: 0.25

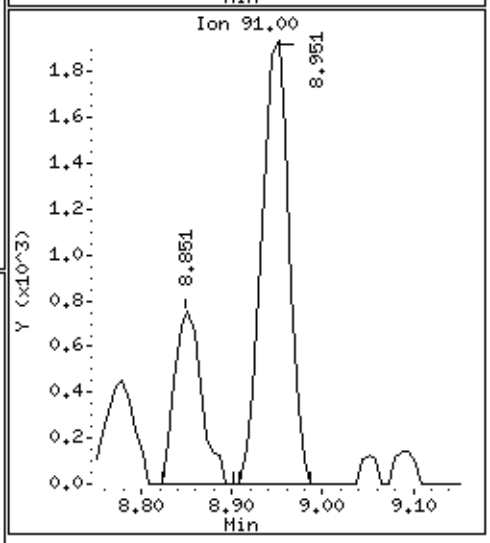
169 m,p-Xylene

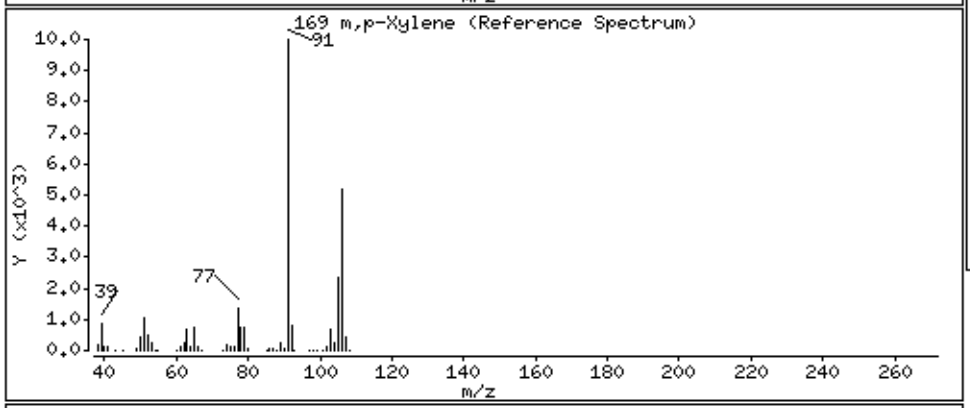
Concentration: 0.8156 PPBV

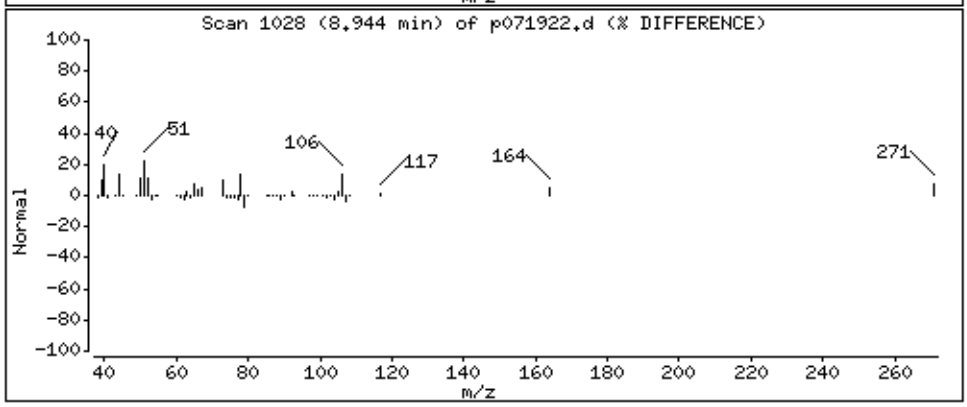












eurofins | Air Toxics

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

Client Sample ID: B18SS-4

Lab ID#: 1607235E-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.54 J	6.1	2.6 J
Freon 11	1.2	0.51 J	6.9	2.8 J
Ethanol	4.9	33	9.3	62
Acetone	12	23	29	55
2-Propanol	4.9	55	12	130
Carbon Disulfide	4.9	2.4 J	15	7.5 J
2-Butanone (Methyl Ethyl Ketone)	4.9	3.9 J	14	11 J
2,2,4-Trimethylpentane	1.2	0.23 J	5.8	1.0 J
Benzene	1.2	0.40 J	3.9	1.3 J
Heptane	1.2	0.58 J	5.1	2.4 J
4-Methyl-2-pentanone	1.2	0.72 J	5.0	2.9 J
Toluene	1.2	7.1	4.6	27
m,p-Xylene	1.2	0.39 J	5.4	1.7 J
Styrene	1.2	0.29 J	5.3	1.2 J
Naphthalene	2.5	0.76 J	13	4.0 J

eurofins | Air Toxics

Client Sample ID: B18SS-4

Lab ID#: 1607235E-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071923**	**Date of Collection:**	**7/12/16 6:50:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**7/20/16 12:03 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.54 J	6.1	2.6 J
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	0.51 J	6.9	2.8 J
Ethanol	4.9	33	9.3	62
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	23	29	55
2-Propanol	4.9	55	12	130
Carbon Disulfide	4.9	2.4 J	15	7.5 J
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	3.9 J	14	11 J
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	0.23 J	5.8	1.0 J
Benzene	1.2	0.40 J	3.9	1.3 J
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	0.58 J	5.1	2.4 J
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	0.72 J	5.0	2.9 J
Toluene	1.2	7.1	4.6	27
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected

eurofins | Air Toxics

Client Sample ID: B18SS-4

Lab ID#: 1607235E-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071923**	**Date of Collection:**	**7/12/16 6:50:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**7/20/16 12:03 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	0.39 J	5.4	1.7 J
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	0.29 J	5.3	1.2 J
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected
Naphthalene	2.5	0.76 J	13	4.0 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	91	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071923.d
Lab Smp Id: 1607235E-11A
Inj Date : 20-JUL-2016 00:03
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 1025
Misc Info : 5.5 Hg->15 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 22-Jul-2016 13:56 snguyen Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 7
Dil Factor: 2.47000
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.441 (1.000)	130	83579	25.0000		80.00- 120.00	100.00
5.449	5.441 (1.000)	128	64223			49.40- 109.40	76.84
5.441	5.434 (1.000)	49	191860			153.31- 213.31	229.56
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.330 (1.000)	114	317770	25.0000		80.00- 120.00	100.00
6.337	6.330 (1.000)	88	44869			0.00- 43.38	14.12
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	295427	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	156034			21.26- 81.26	52.82
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.097)	65	138656	27.0100	27.010	80.00- 120.00	100.00
5.979	5.971 (1.097)	67	64871			25.58- 85.58	46.79
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.191)	98	339333	26.4570	26.457	80.00- 120.00	100.00
7.547	7.547 (1.191)	70	38288			0.00- 40.37	11.28

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.191)   100    219496                    38.69-  98.69    64.68
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.761   9.754 (1.113)   174    219370 22.7082   22.708  80.00- 120.00   100.00
  9.761   9.754 (1.113)    95    207934                   59.95- 119.95    94.79
  9.761   9.754 (1.113)   176    208447                   67.47- 127.47    95.02
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.507   1.507 (0.276)    85      2089 0.21723   0.5366  80.00- 120.00   100.00(a)
  1.521   1.507 (0.279)    87       488                    2.43-  62.43    23.39
-------------------------------------------------------------------------------
   35 Freon 11                                      CAS #: 75-69-4
  2.569   2.562 (0.472)   101      2074 0.20567   0.5080  80.00- 120.00   100.00(a)
  2.569   2.562 (0.472)   103      1241                   35.01-  95.01    59.84
-------------------------------------------------------------------------------
   42 Ethanol                                       CAS #: 64-17-5
  2.884   2.870 (0.529)    45     26097 13.4386   33.193  80.00- 120.00   100.00
  2.884   2.870 (0.529)    43      4969                    0.00-  51.15    19.04
  2.891   2.870 (0.531)    46      9046                    7.97-  67.97    34.66
-------------------------------------------------------------------------------
   52 Acetone                                       CAS #: 67-64-1
  3.386   3.371 (0.621)    58     21170 9.41445   23.254  80.00- 120.00   100.00
  3.386   3.371 (0.621)    43     81012                  353.98- 413.98   382.66
-------------------------------------------------------------------------------
   56 Carbon Disulfide                              CAS #: 75-15-0
  3.479   3.464 (0.638)    76      9327 0.97614    2.411  80.00- 120.00   100.00(a)
-------------------------------------------------------------------------------
   57 2-Propanol                                    CAS #: 67-63-0
  3.550   3.536 (0.652)    45    216130 22.1503   54.711  80.00- 120.00   100.00
  3.543   3.543 (0.650)    43     45617                    0.00-  50.28    21.11
  3.550   3.543 (0.652)    59      6467                    0.00-  33.15     2.99
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.241   5.234 (0.962)    72      2655 1.57457    3.889  80.00- 120.00   100.00(a)
  5.241   5.234 (0.962)    43     30056                  611.89- 671.89  1131.91
  5.241   5.234 (0.962)    57      1752                   17.72-  77.72    65.99
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.950   5.950 (1.092)    57      2313 0.09188   0.2269  80.00- 120.00   100.00(a)
  5.936   5.950 (1.089)    56      1116                    2.51-  62.51    48.24
  5.921   5.950 (1.087)    41      3539                    0.00-  58.92   152.96
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.964   5.964 (0.941)    78      1598 0.16315   0.4030  80.00- 120.00   100.00(a)
  5.971   5.964 (0.942)    77       327                    0.00-  54.04    20.46
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
121 Heptane					CAS #: 142-82-5		
6.122	6.122 (0.966)	71	864	0.23608	0.5831	80.00- 120.00	100.00(a)
6.129	6.122 (0.967)	43	2993			231.64- 291.64	346.39
6.122	6.122 (0.966)	57	1565			103.28- 163.28	181.17
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.476	7.476 (1.180)	58	1272	0.28986	0.7160	80.00- 120.00	100.00(a)
7.469	7.476 (1.179)	43	5956			264.26- 324.26	468.13
7.476	7.476 (1.180)	85	321			3.08- 63.08	25.23
147 Toluene					CAS #: 108-88-3		
7.605	7.605 (1.200)	91	38981	2.89180	7.143	80.00- 120.00	100.00
7.605	7.605 (1.200)	92	22654			28.28- 88.28	58.12
169 m,p-Xylene					CAS #: 108-38-3		
8.944	8.951 (1.020)	106	1166	0.15849	0.3915	80.00- 120.00	100.00(a)
8.944	8.951 (1.020)	91	3714			167.63- 227.63	318.38
172 Styrene					CAS #: 100-42-5		
9.309	9.309 (1.061)	104	1298	0.11795	0.2913	80.00- 120.00	100.00(a)
9.317	9.302 (1.062)	78	1046			15.94- 75.94	80.61
228 Naphthalene					CAS #: 91-20-3		
12.748	12.741 (1.453)	128	7328	0.31001	0.7657	80.00- 120.00	100.00(a)
12.748	12.741 (1.453)	127	1064			0.00- 43.45	14.52

QC Flag Legend

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

Report Date: 27-Jul-2016 16:05

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071923.d
Lab Smp Id: 1607235E-11A
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 5.5 Hg->15 psi

Calibration Date: 19-JUL-2016
Calibration Time: 11:28

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	83579	-12.27
123 1,4-Difluorobenze	379135	227481	530789	317770	-16.19
163 Chlorobenzene-d5	348612	209167	488057	295427	-15.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	0.00

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

Report Date: 27-Jul-2016 16:05

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 19jul16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1607235E-11A
Level: LOW
Operator: gh
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 5.5 Hg->15 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.010	108.04	70-130
$ 146 Toluene-d8	25.000	26.457	105.83	70-130
$ 177 4-Bromofluorobenze	25.000	22.708	90.83	70-130

Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

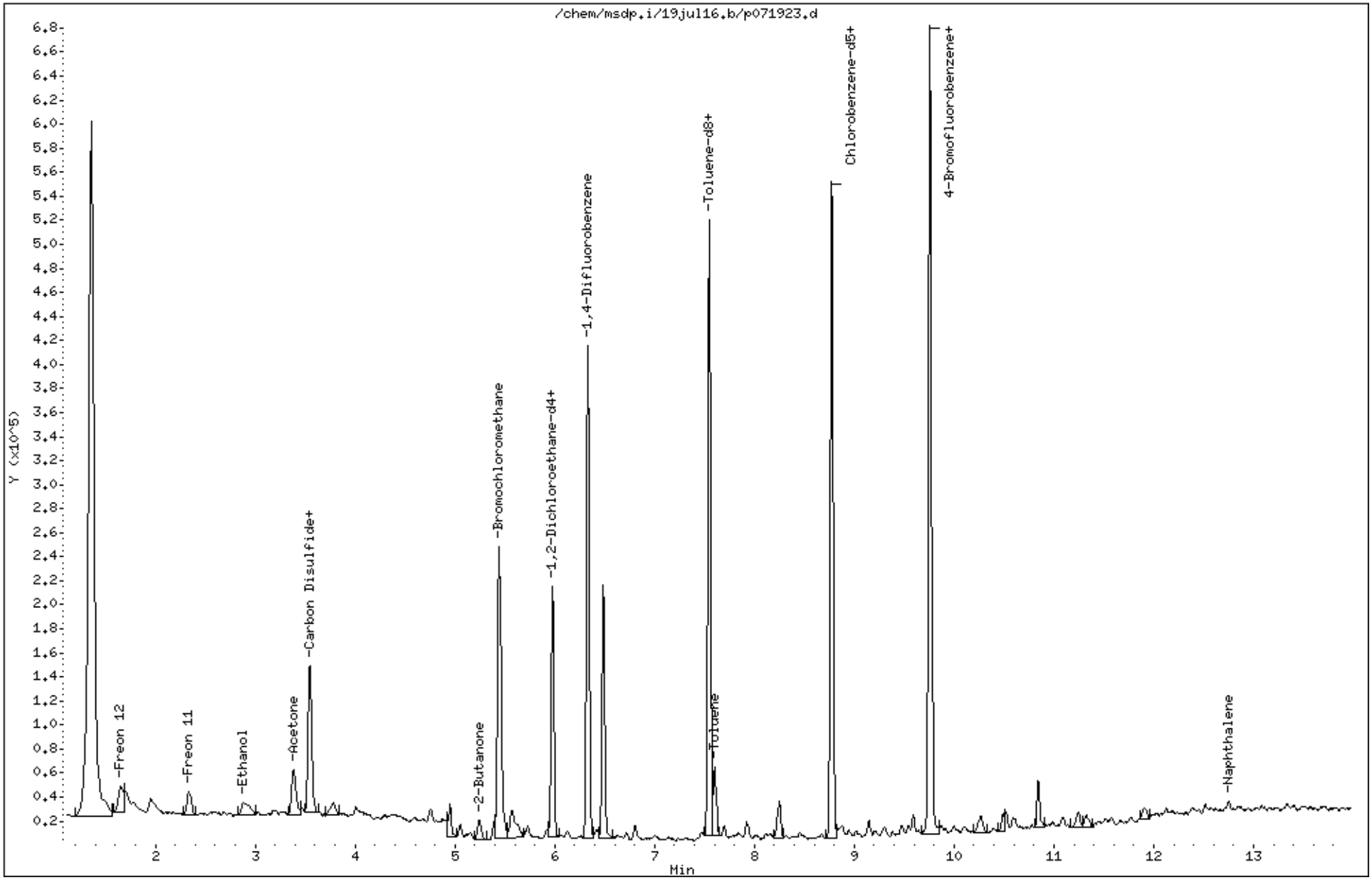
Sample Info: 200ml 1025

Column phase: RTX-624

Instrument: msdp.i

Operator: gh

Column diameter: 0.25



Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

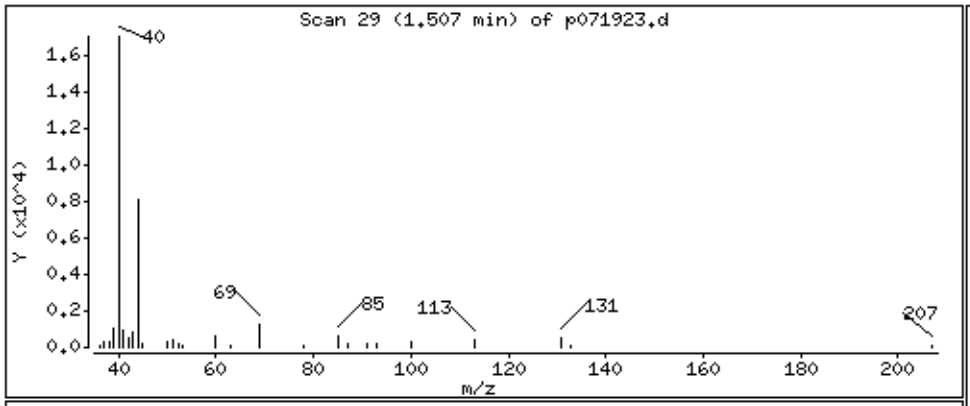
Operator: gh

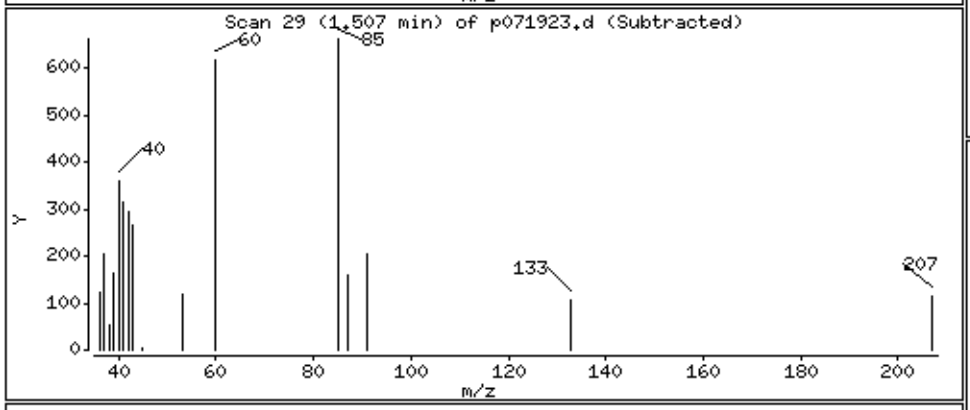
Column phase: RTX-624

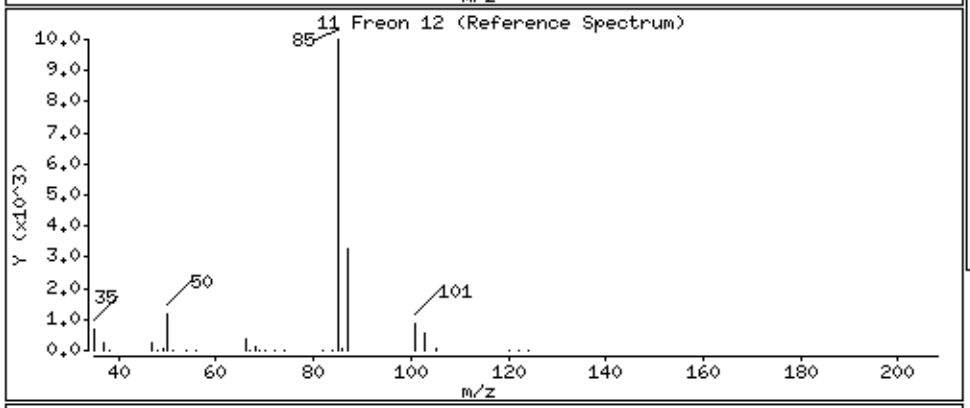
Column diameter: 0.25

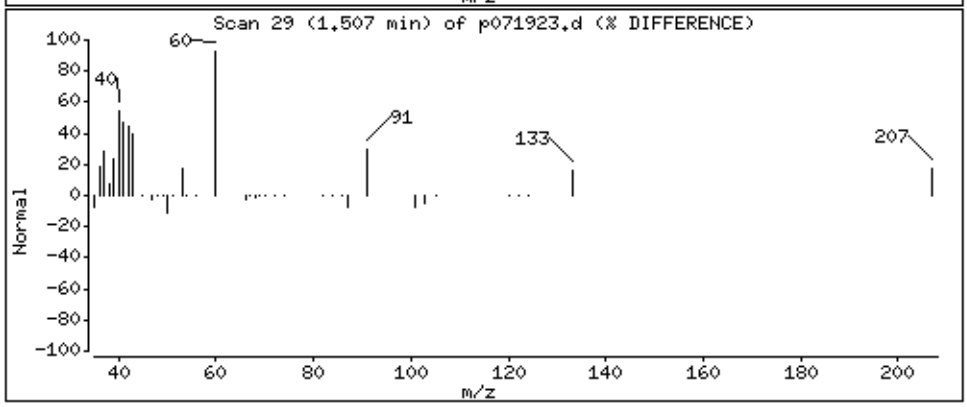
11 Freon 12

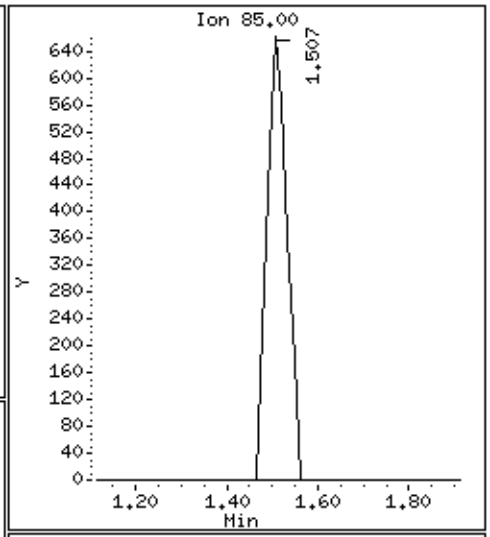
Concentration: 0.5366 PPBV

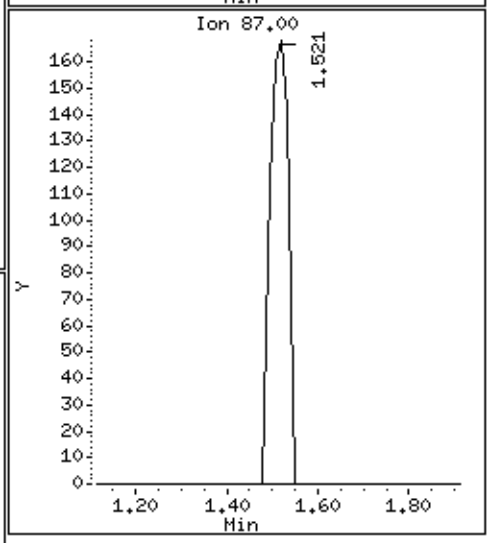












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

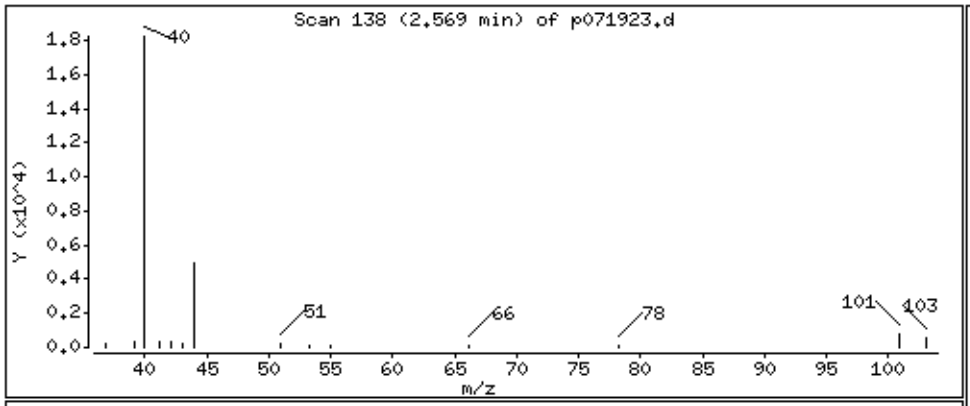
Operator: gh

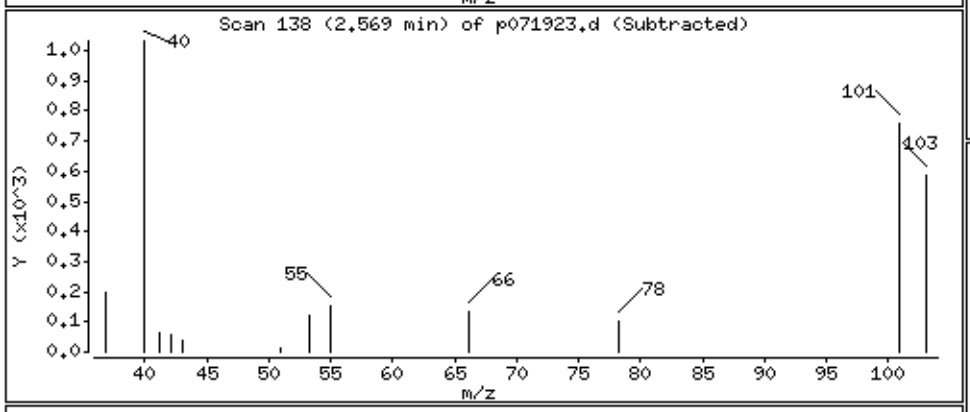
Column phase: RTX-624

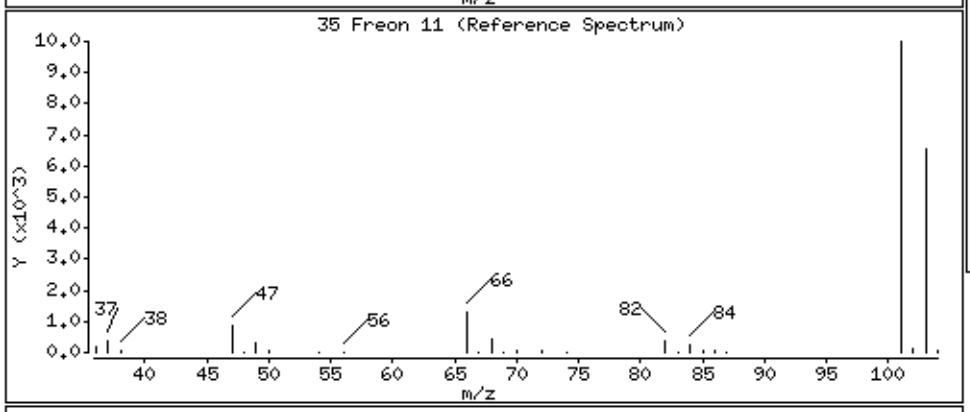
Column diameter: 0.25

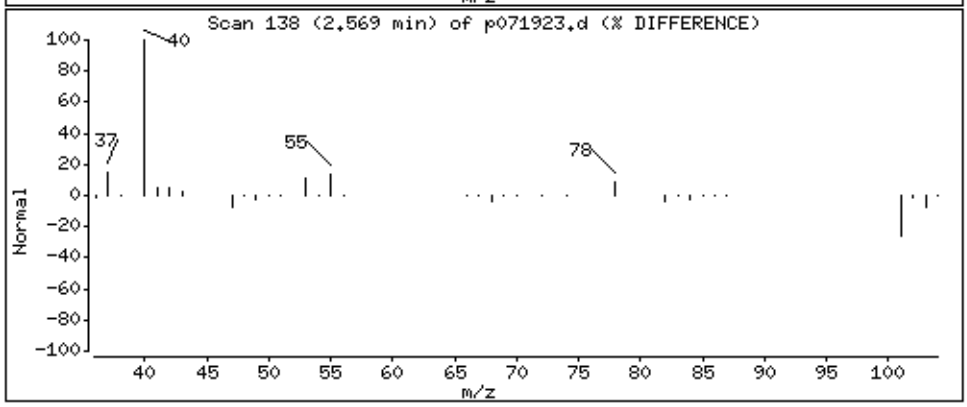
35 Freon 11

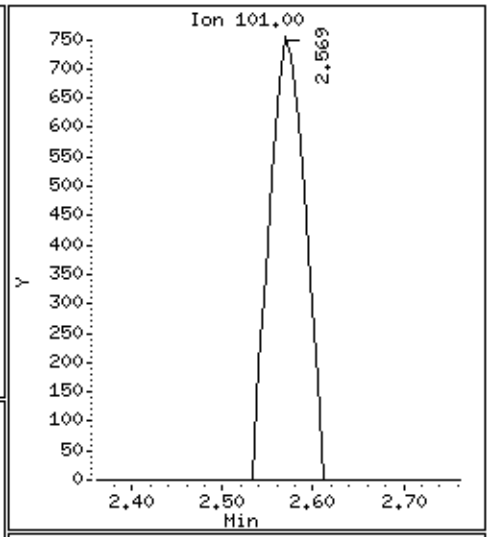
Concentration: 0.5080 PPBV

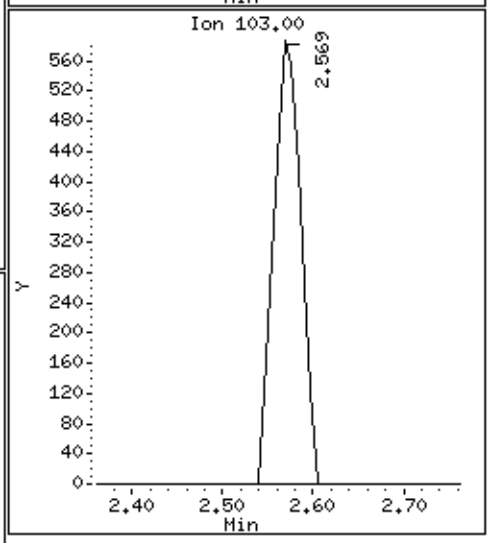












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

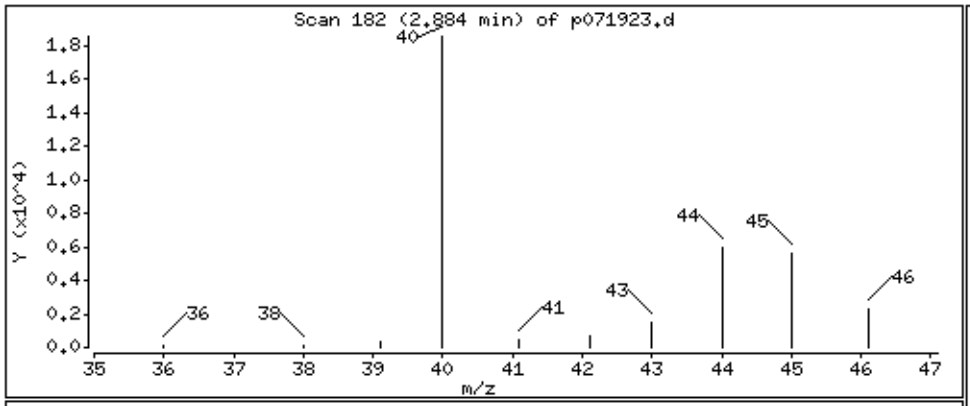
Operator: gh

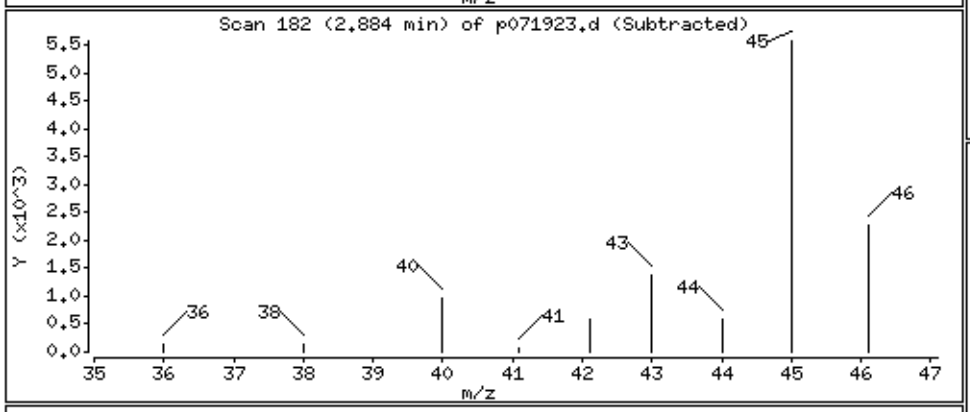
Column phase: RTX-624

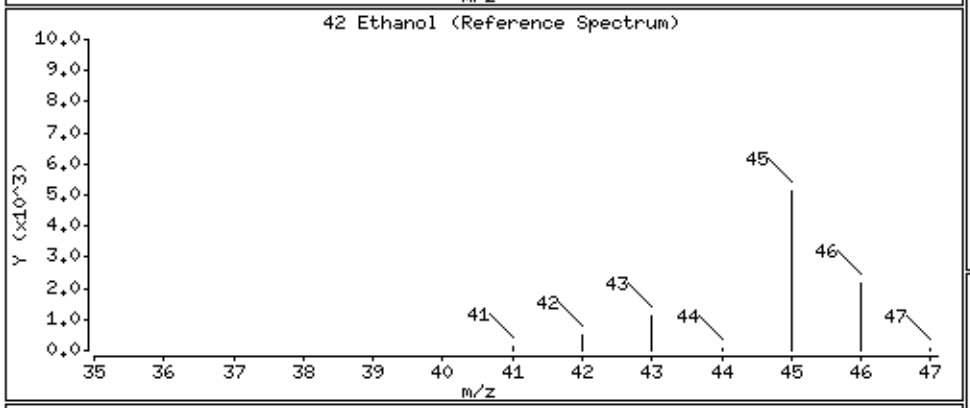
Column diameter: 0.25

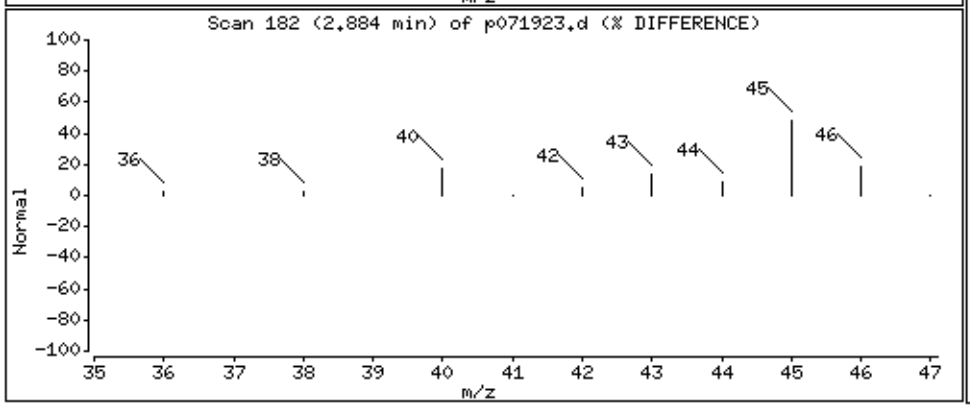
42 Ethanol

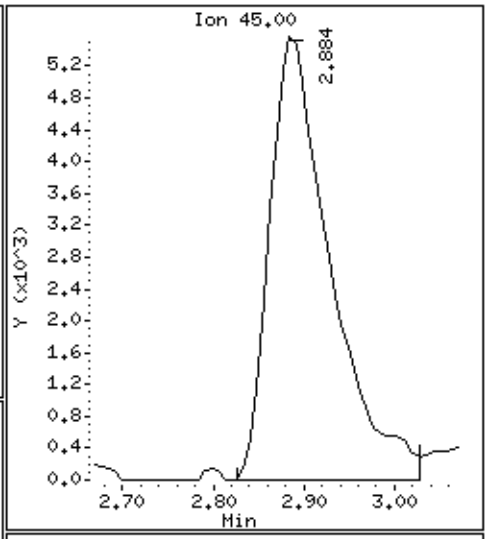
Concentration: 33.193 PPBV

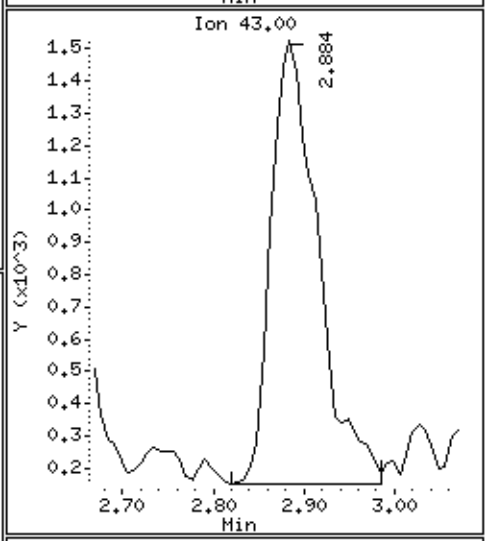


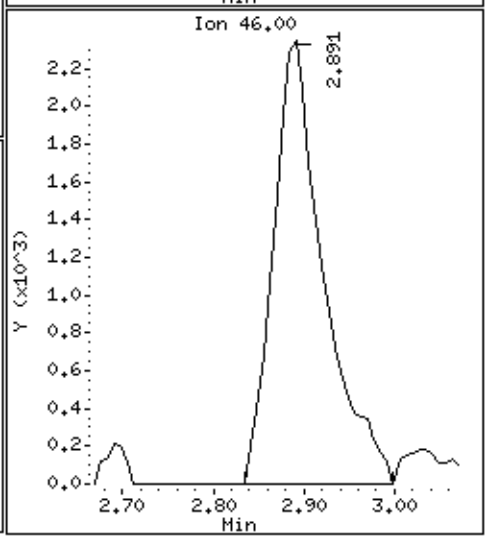












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

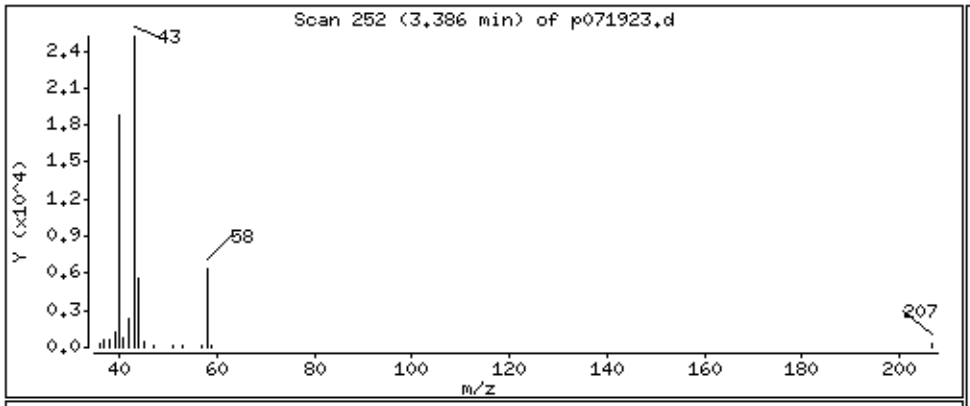
Operator: gh

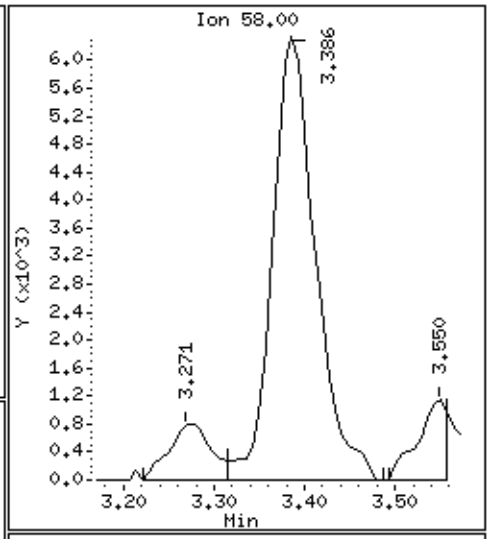
Column phase: RTX-624

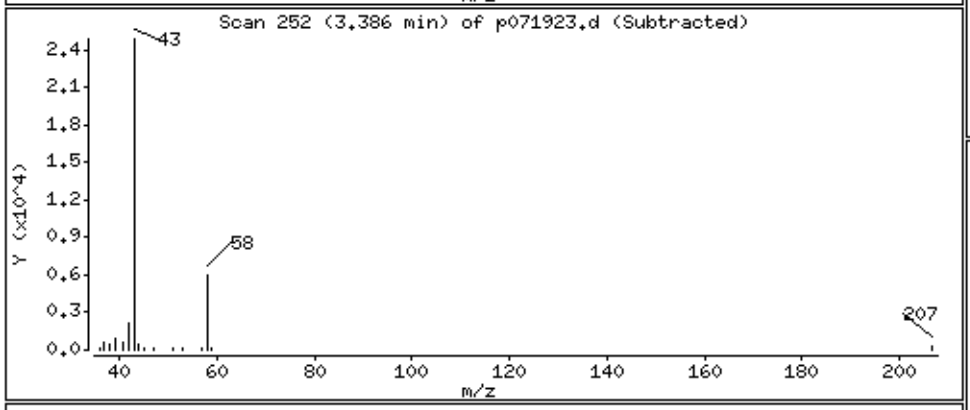
Column diameter: 0.25

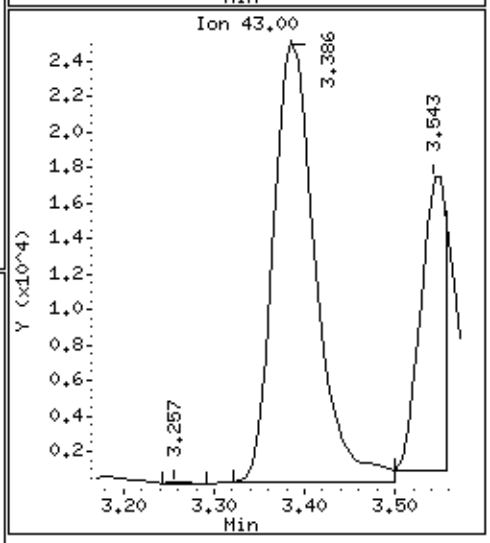
52 Acetone

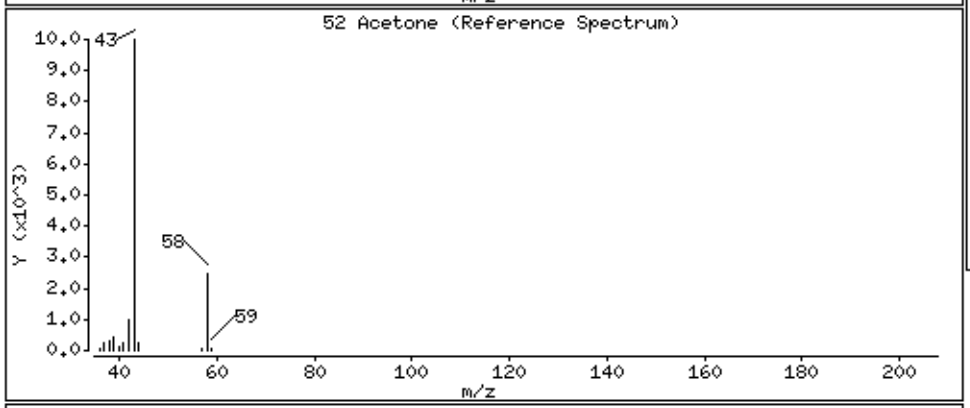
Concentration: 23.254 PPBV

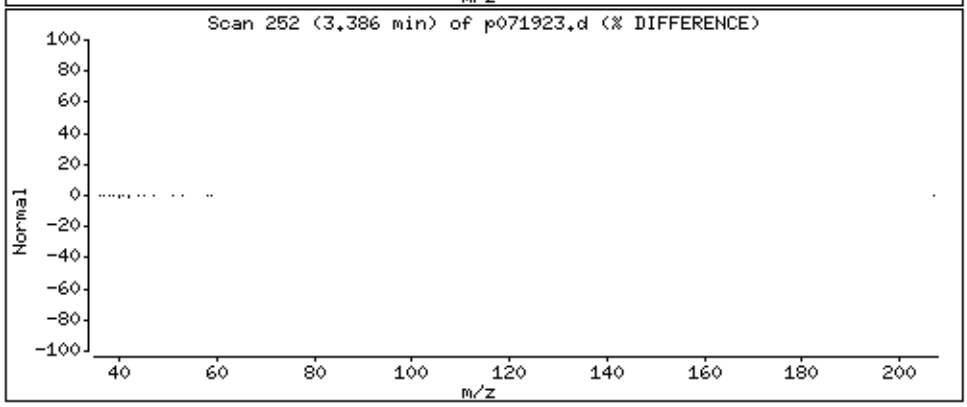












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

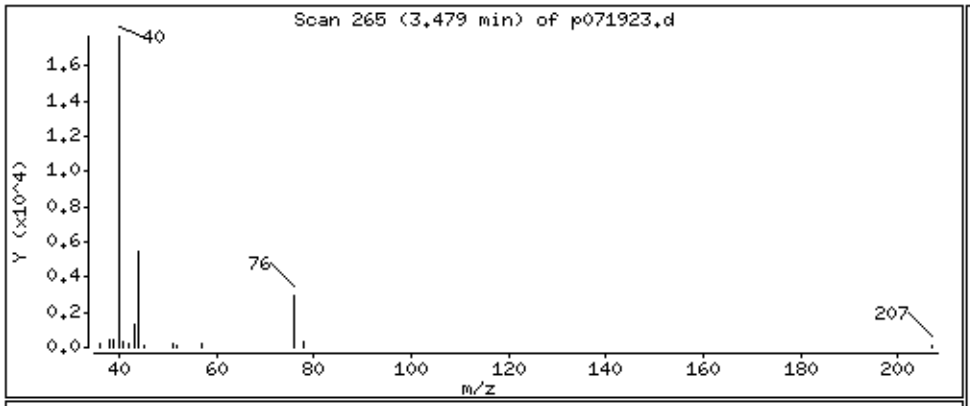
Operator: gh

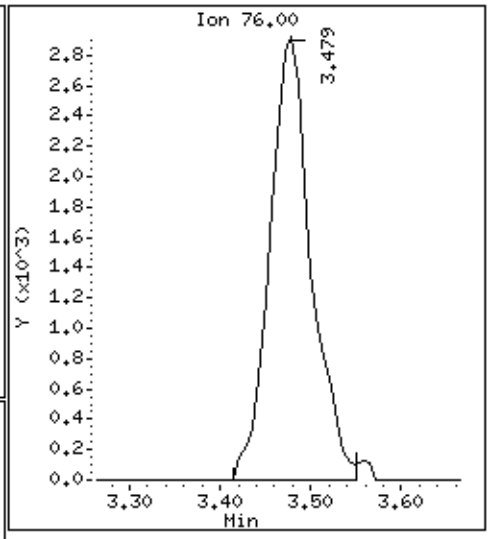
Column phase: RTX-624

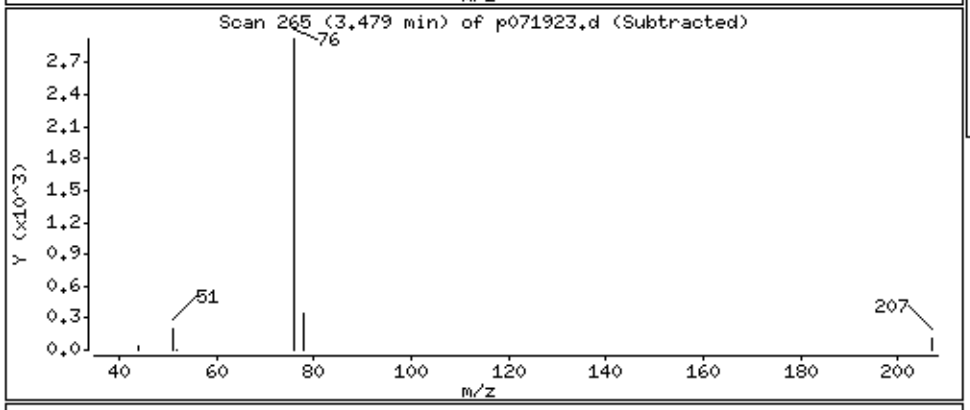
Column diameter: 0.25

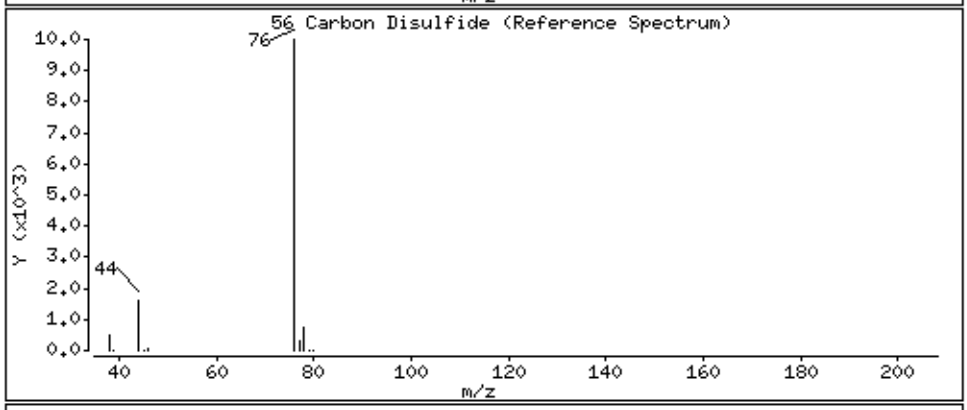
56 Carbon Disulfide

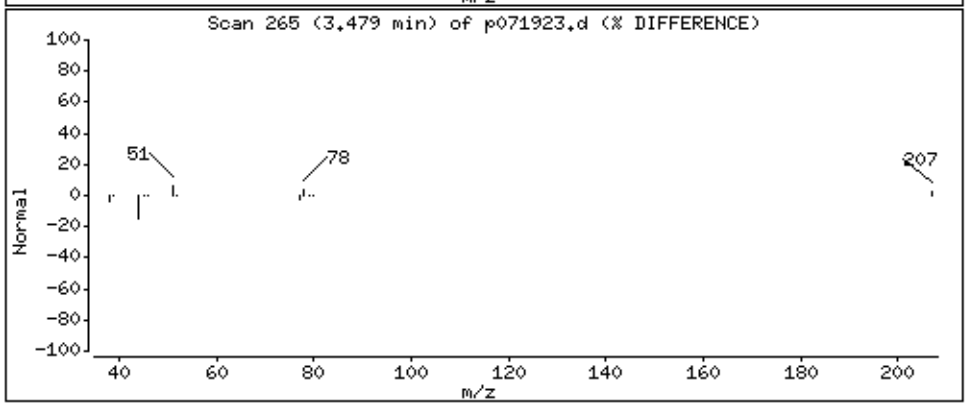
Concentration: 2.411 PPBV











Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

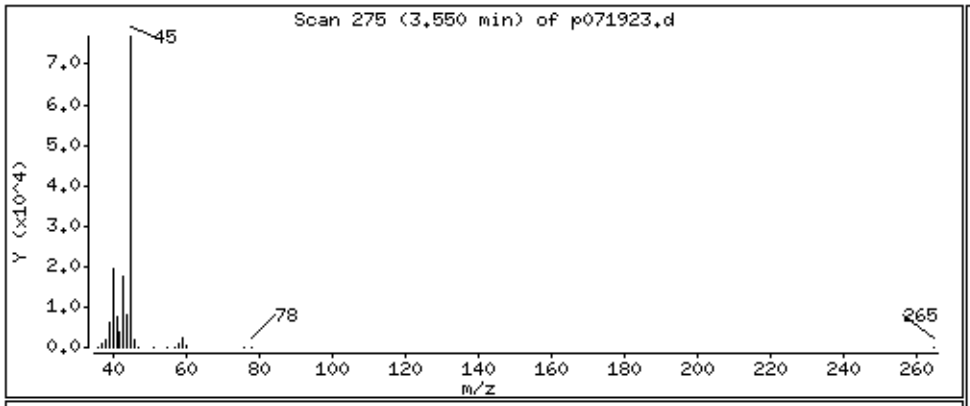
Operator: gh

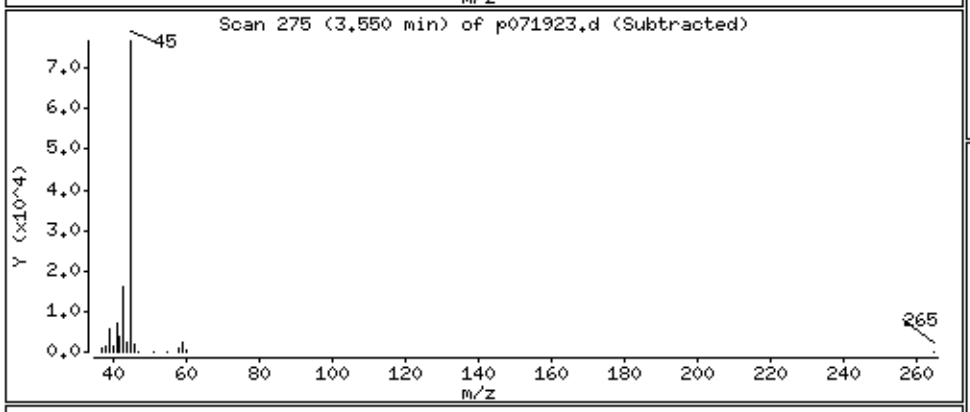
Column phase: RTX-624

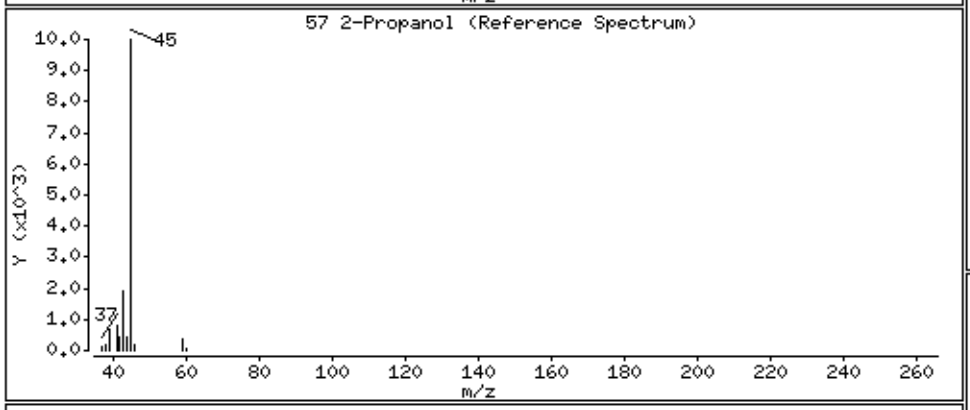
Column diameter: 0.25

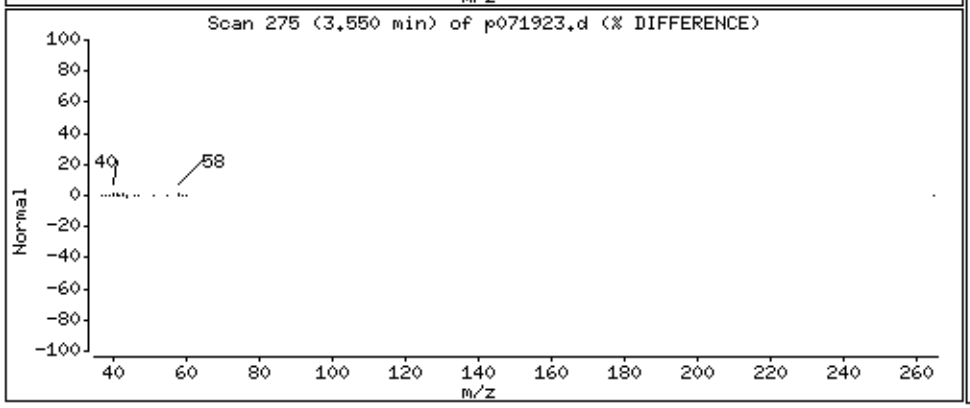
57 2-Propanol

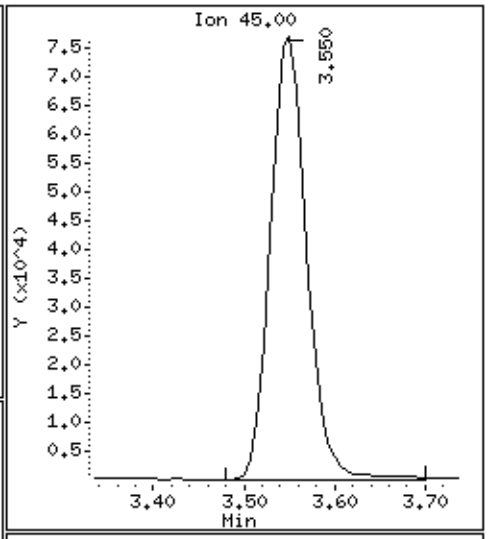
Concentration: 54.711 PPBV

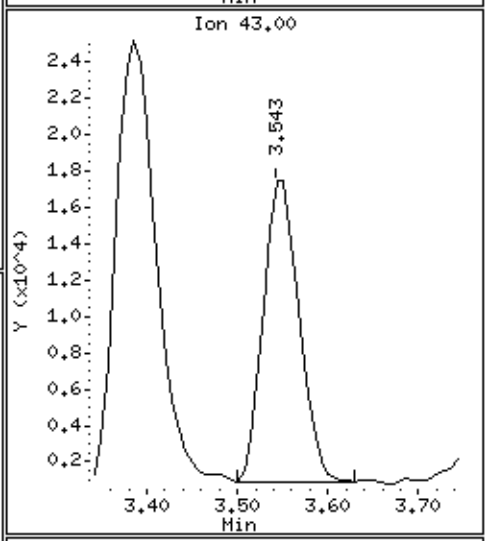


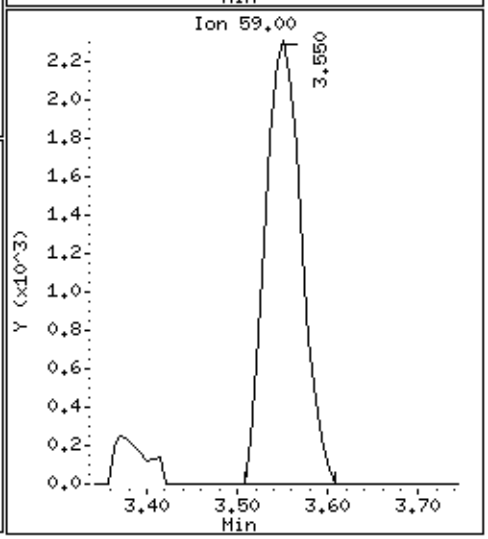












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

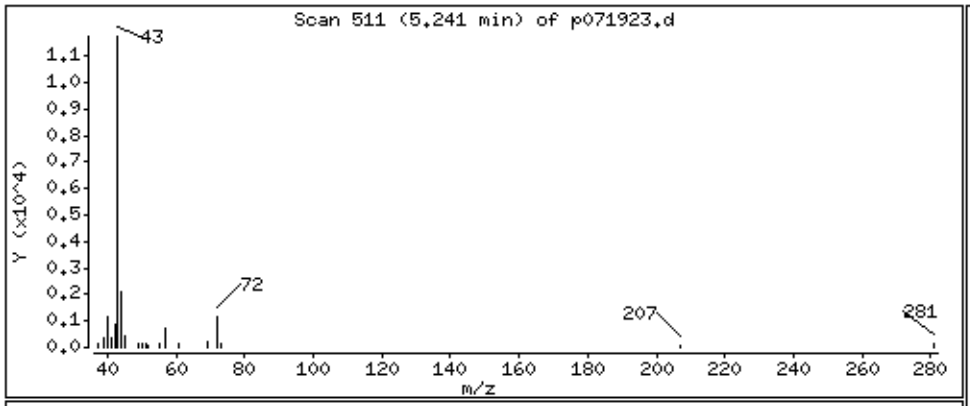
Operator: gh

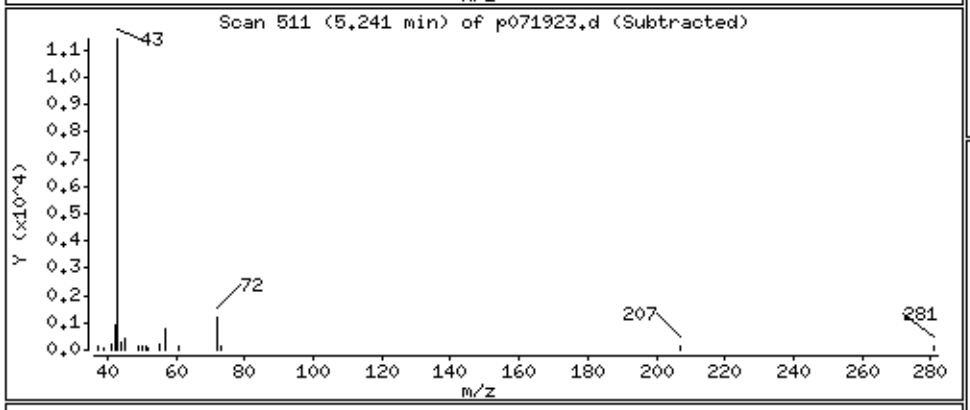
Column phase: RTX-624

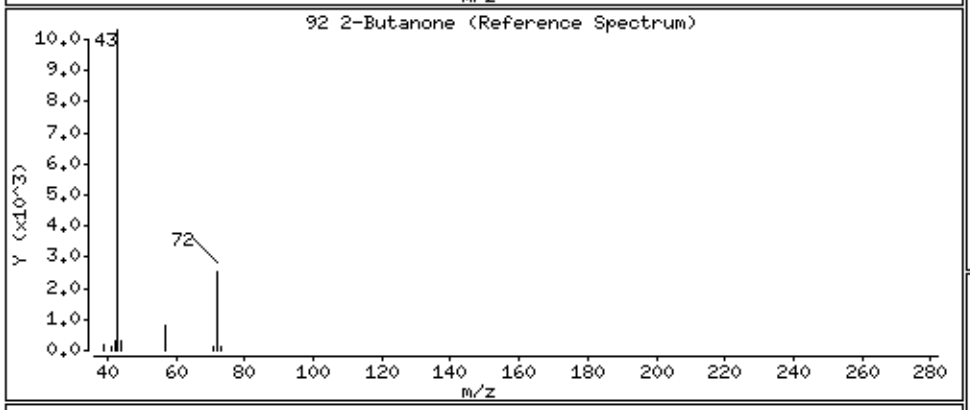
Column diameter: 0.25

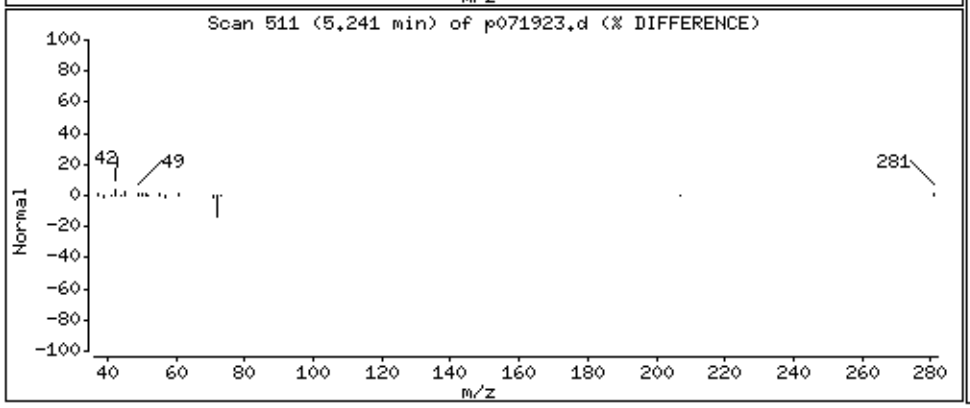
92 2-Butanone

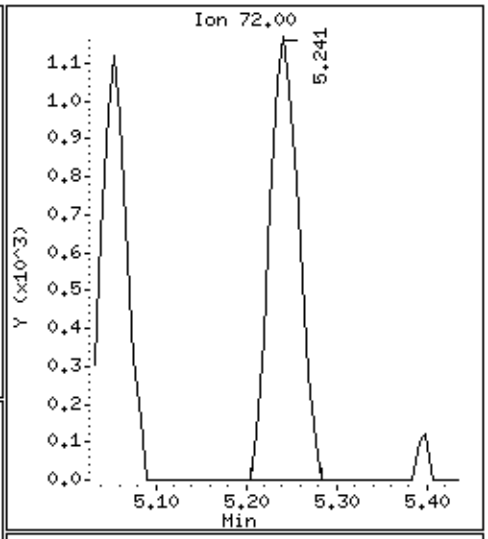
Concentration: 3.889 PPBV

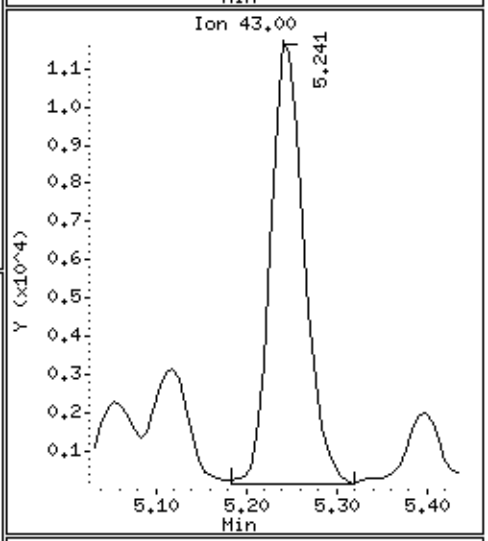


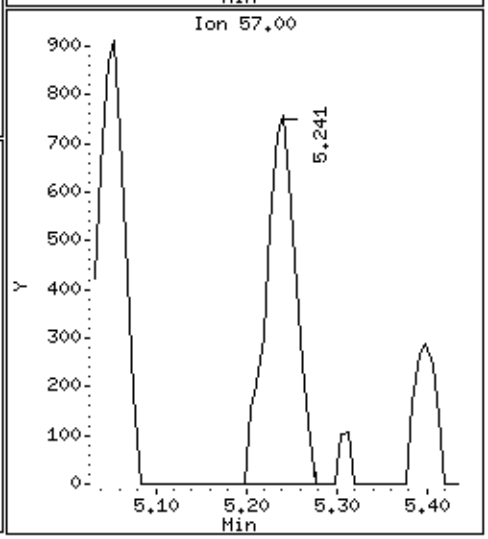












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

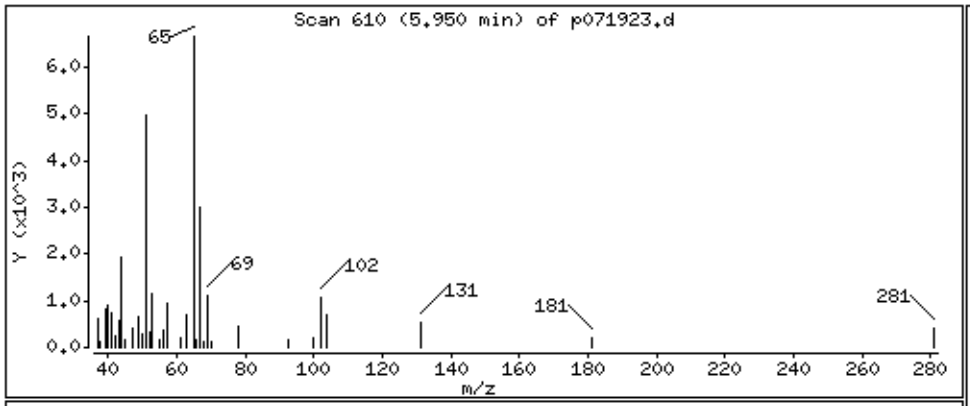
Operator: gh

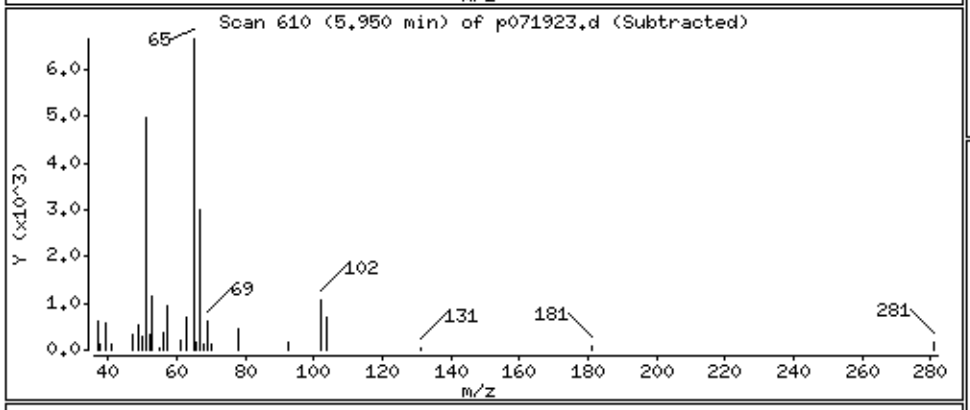
Column phase: RTX-624

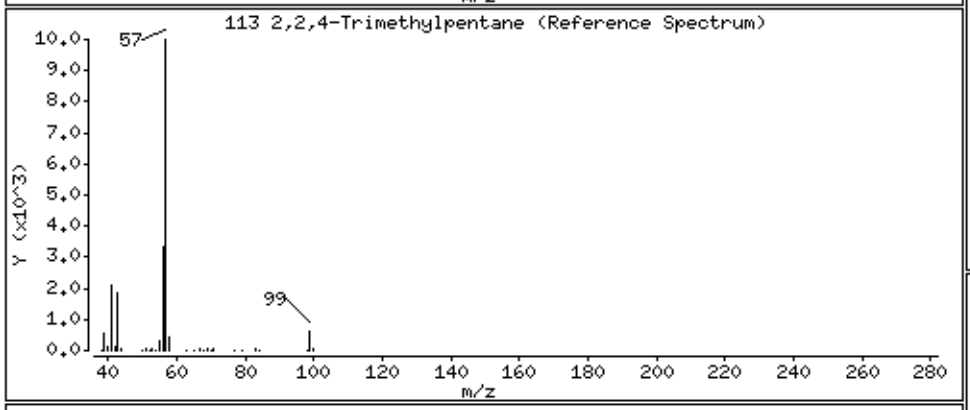
Column diameter: 0.25

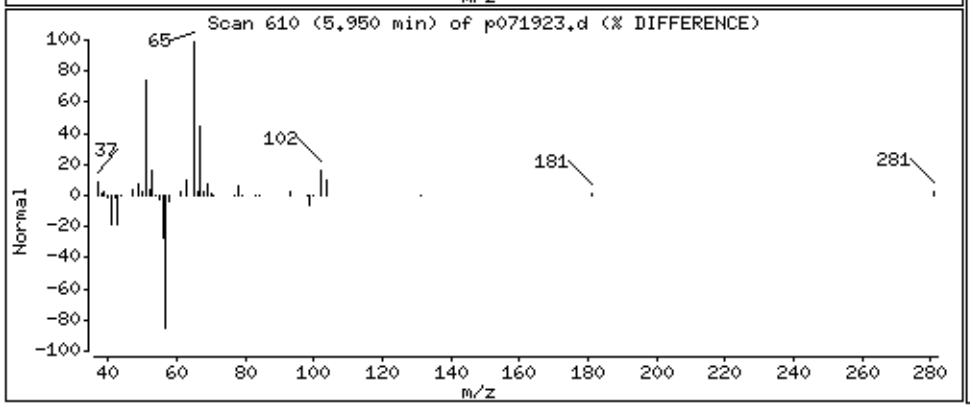
113 2,2,4-Trimethylpentane

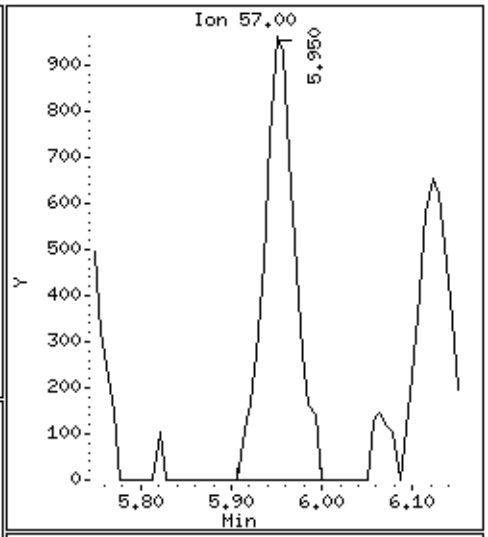
Concentration: 0.2269 PPBV

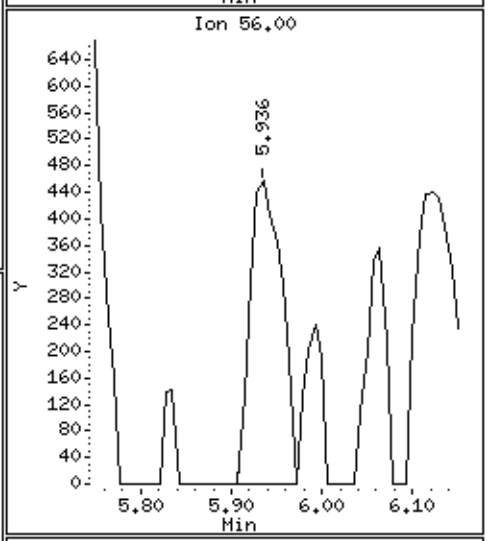


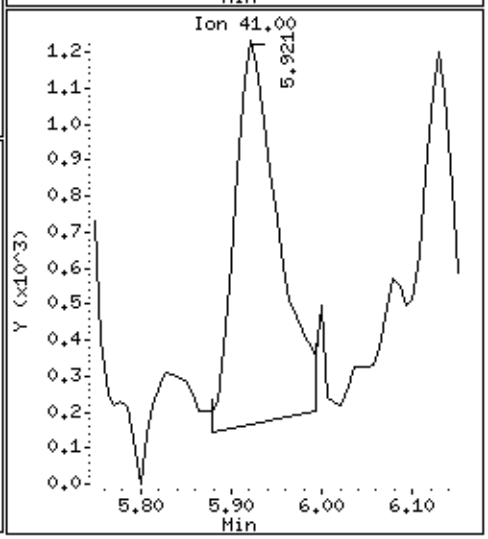












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

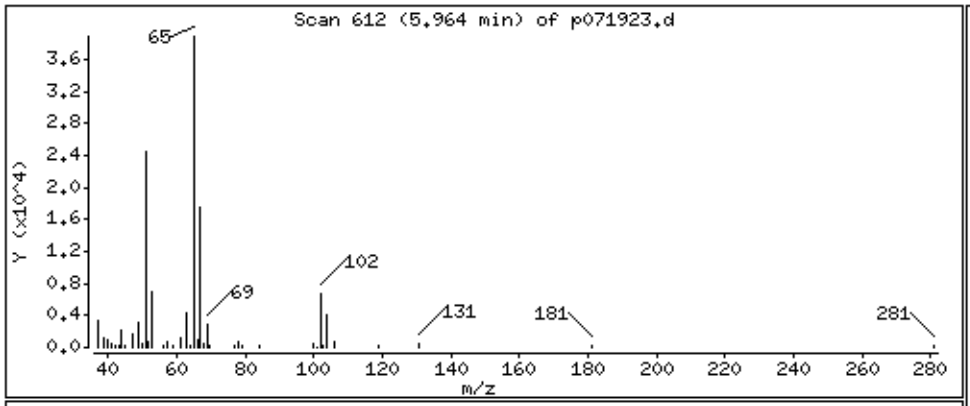
Operator: gh

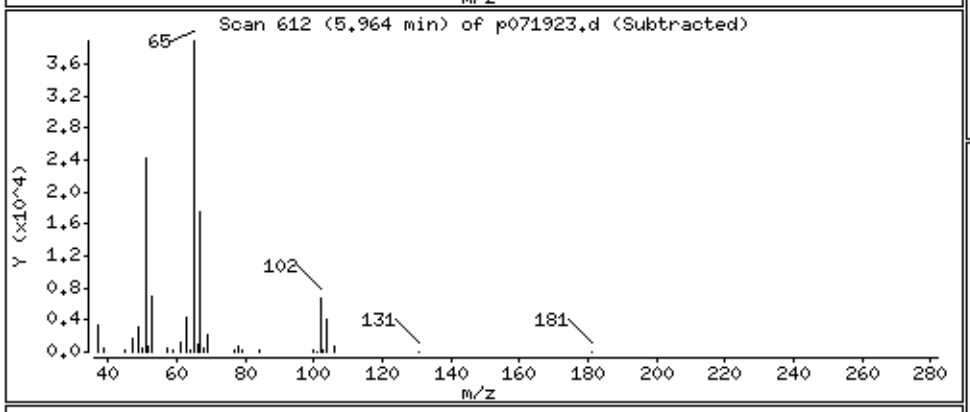
Column phase: RTX-624

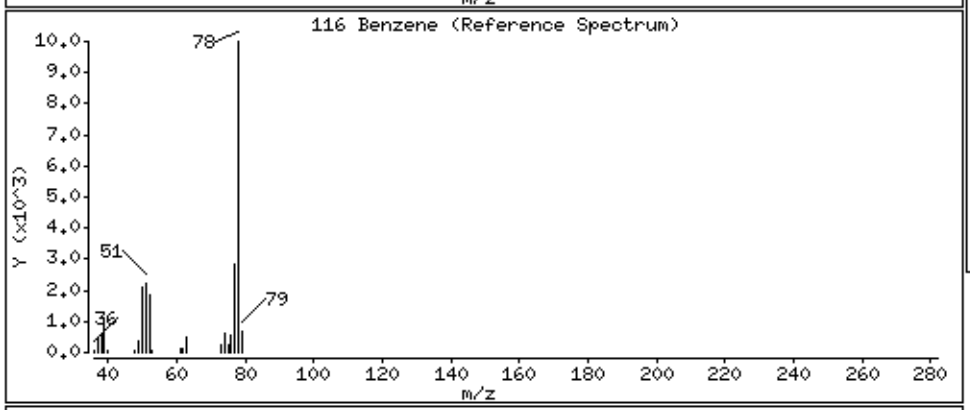
Column diameter: 0.25

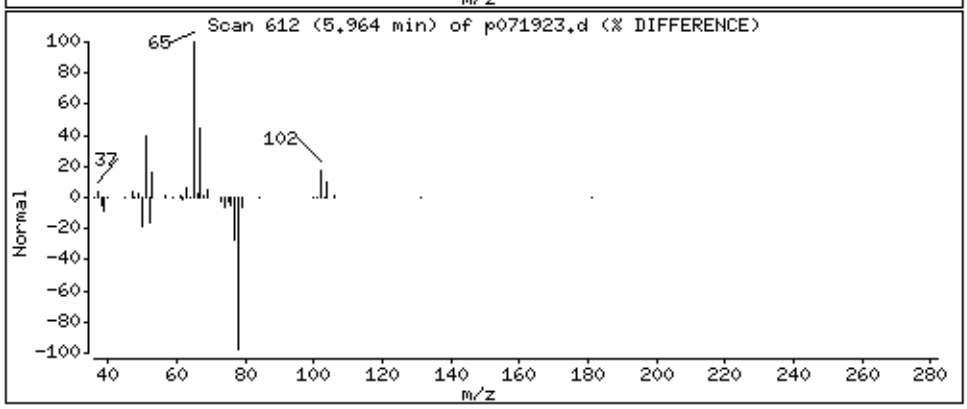
116 Benzene

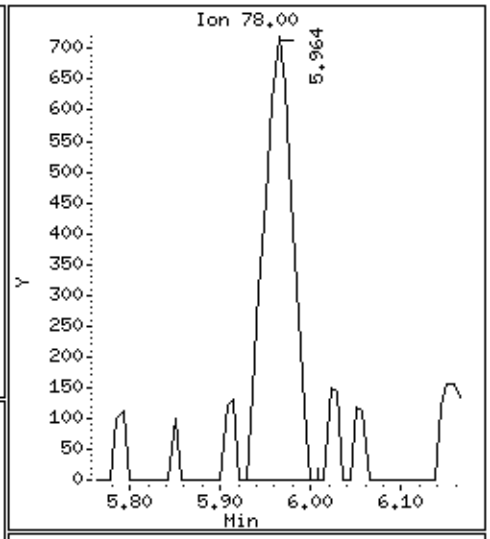
Concentration: 0.4030 PPBV

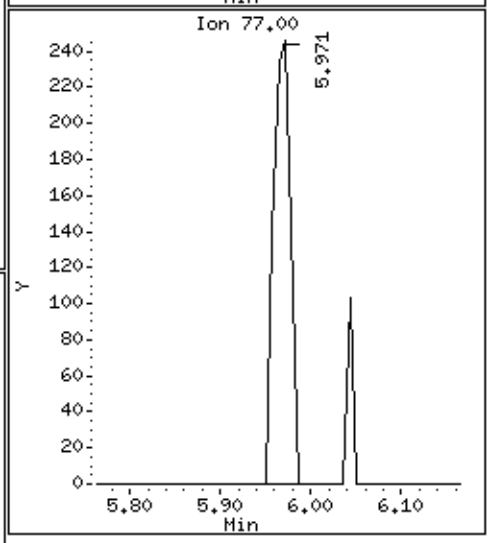












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

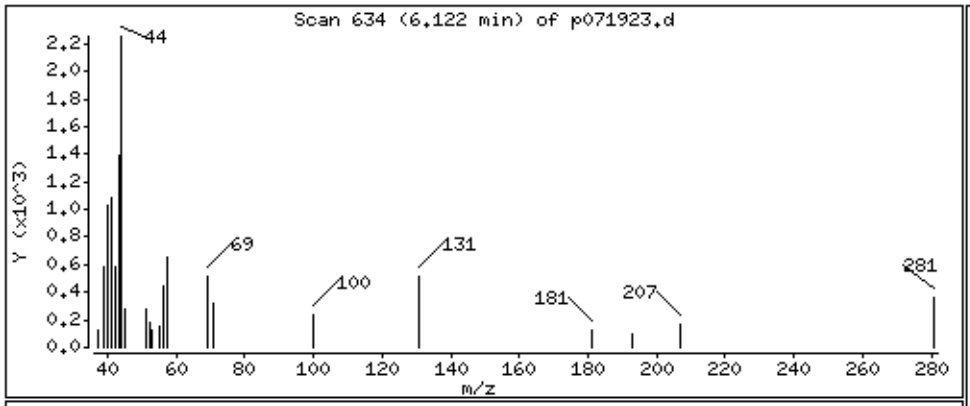
Operator: gh

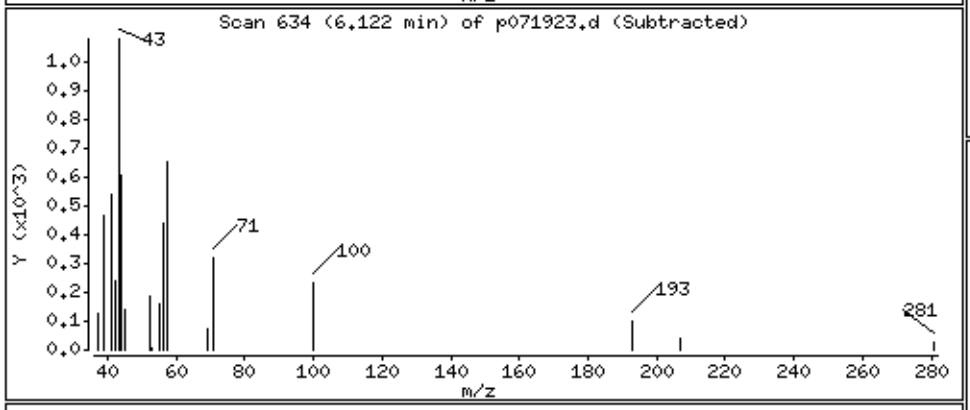
Column phase: RTX-624

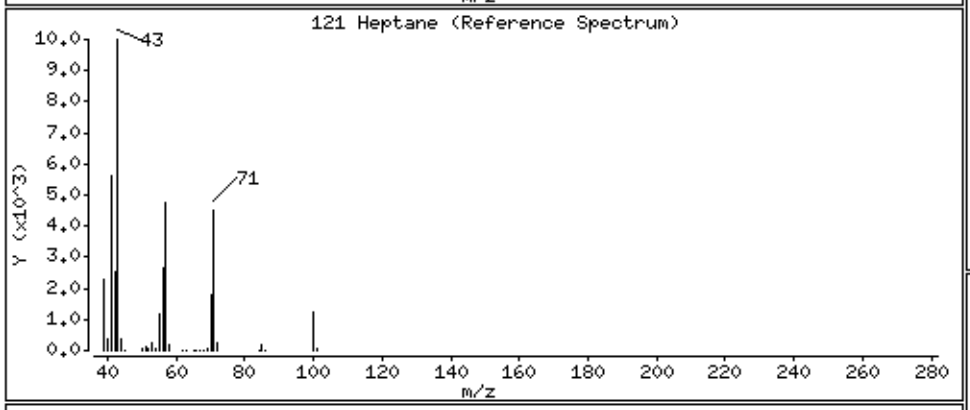
Column diameter: 0.25

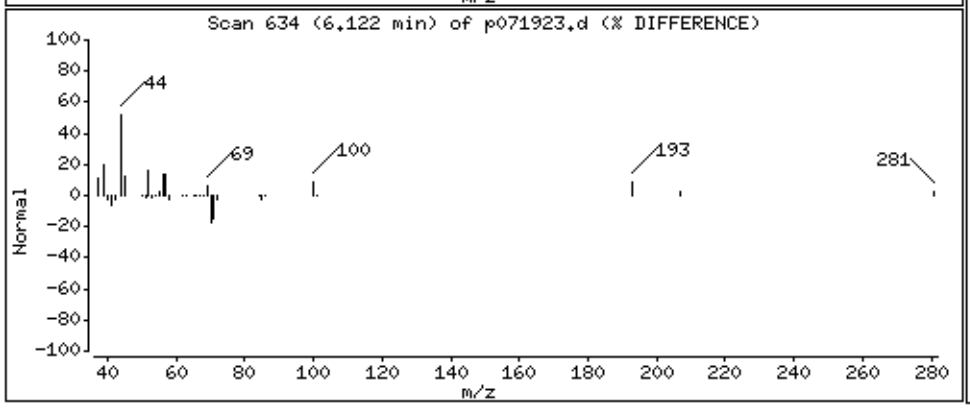
121 Heptane

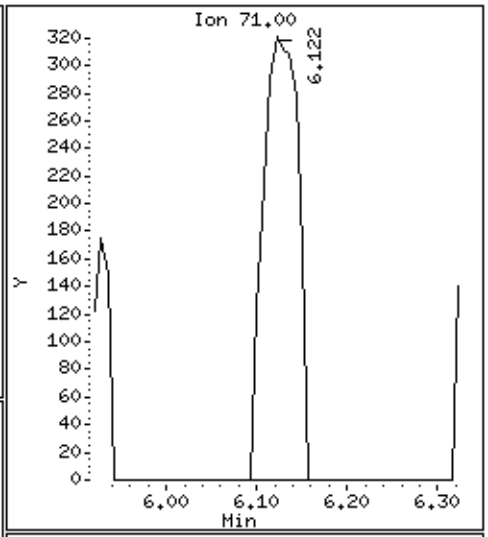
Concentration: 0.5831 PPBV

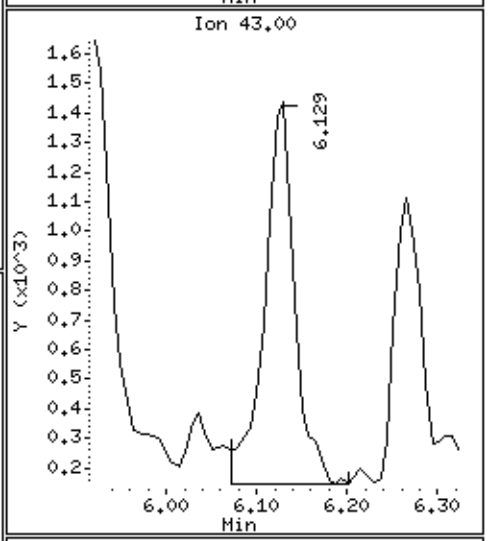


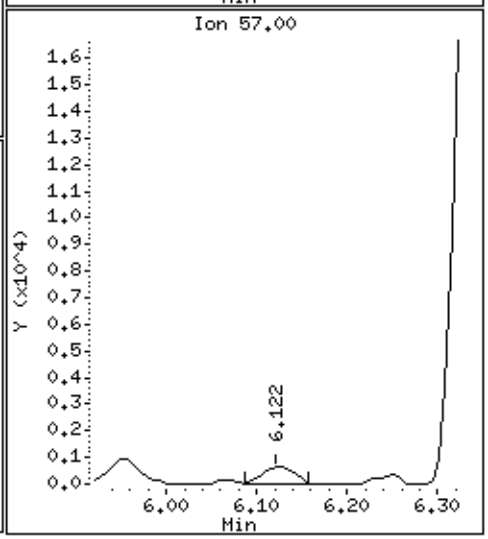












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

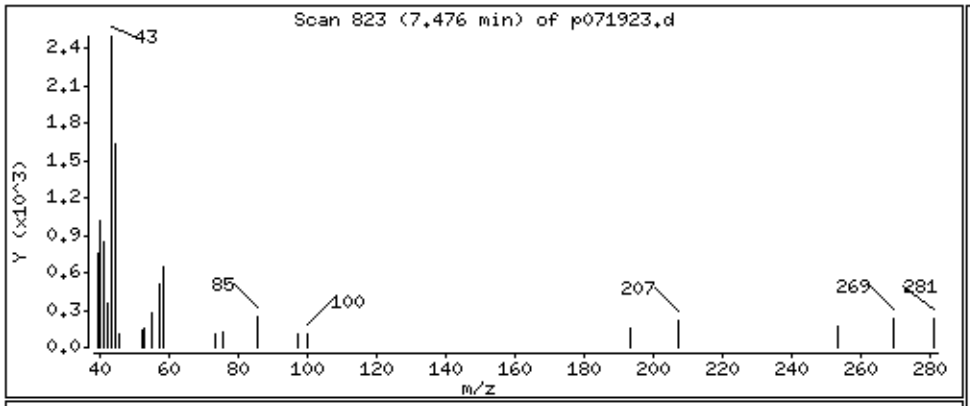
Operator: gh

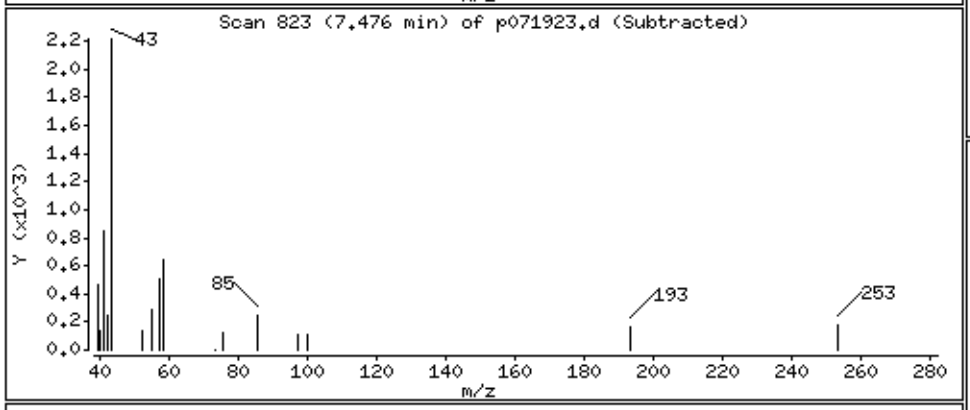
Column phase: RTX-624

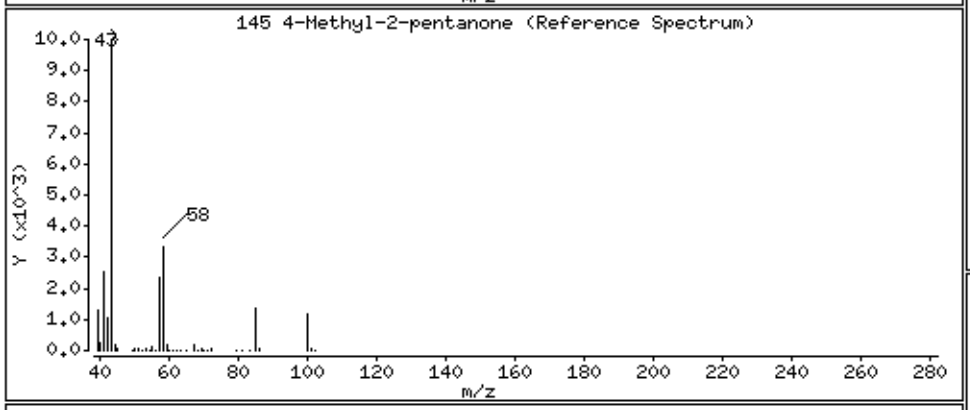
Column diameter: 0.25

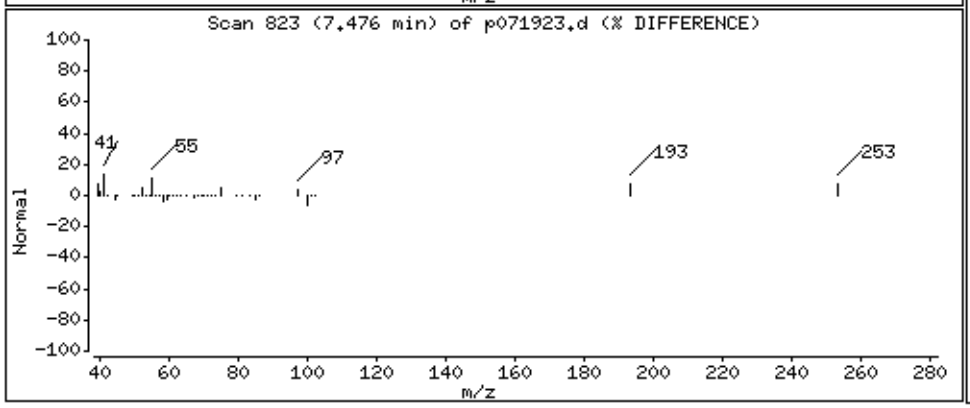
145 4-Methyl-2-pentanone

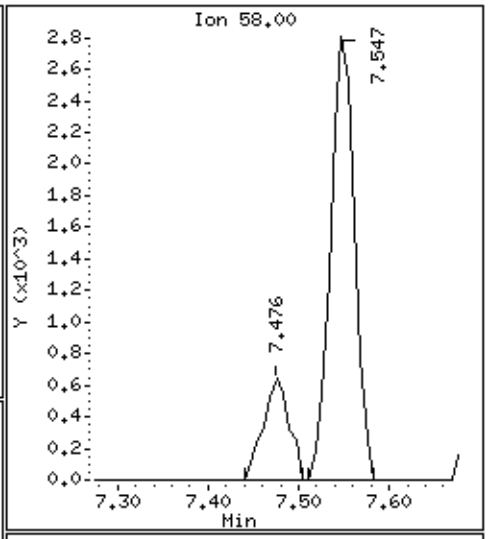
Concentration: 0.7160 PPBV

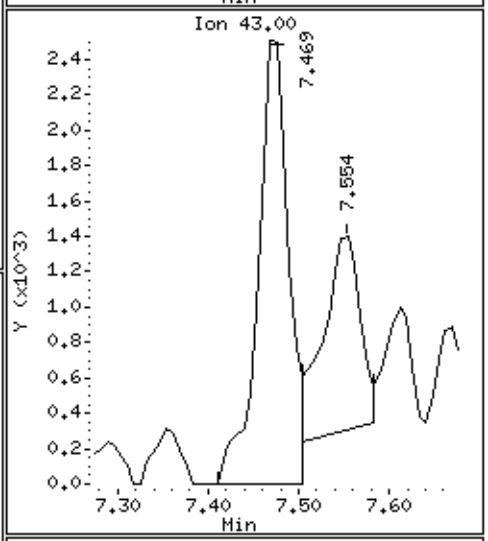


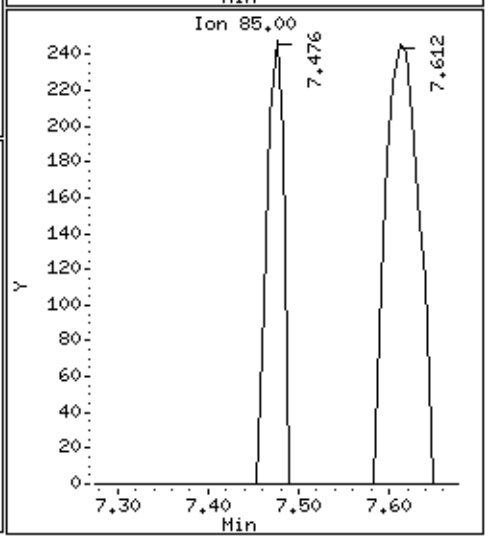












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

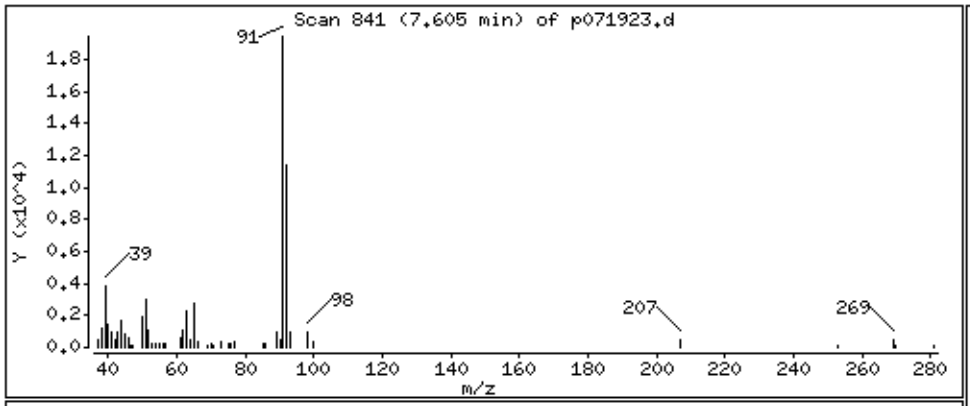
Operator: gh

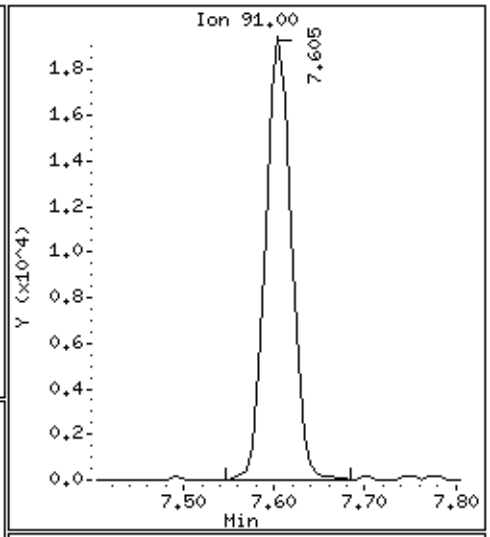
Column phase: RTX-624

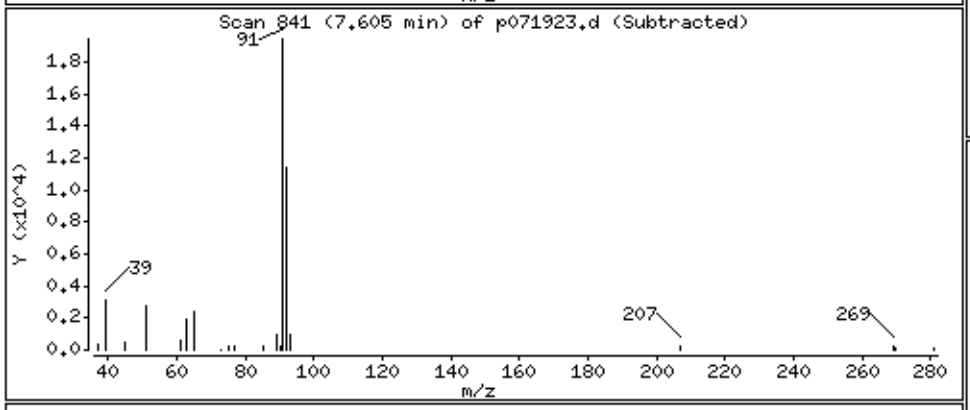
Column diameter: 0.25

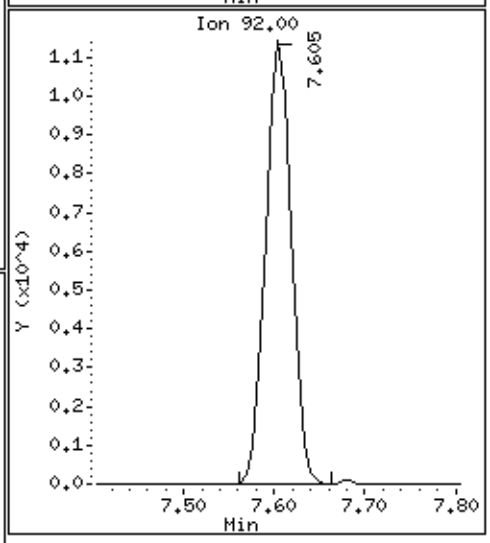
147 Toluene

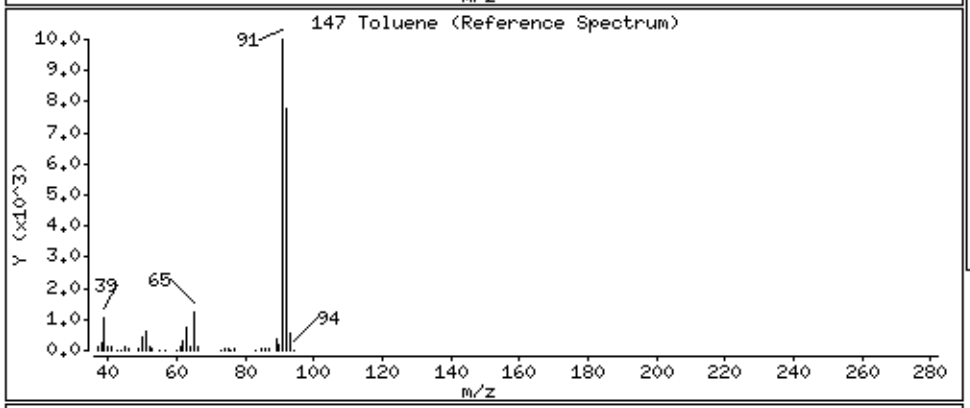
Concentration: 7.143 PPBV

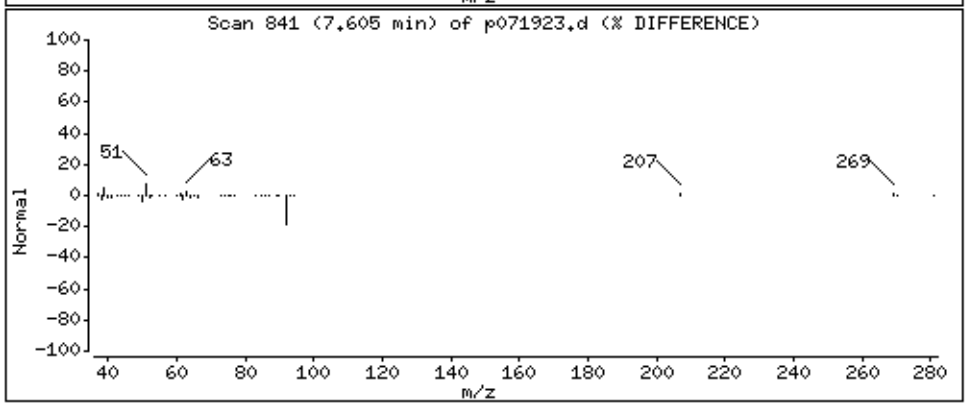












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

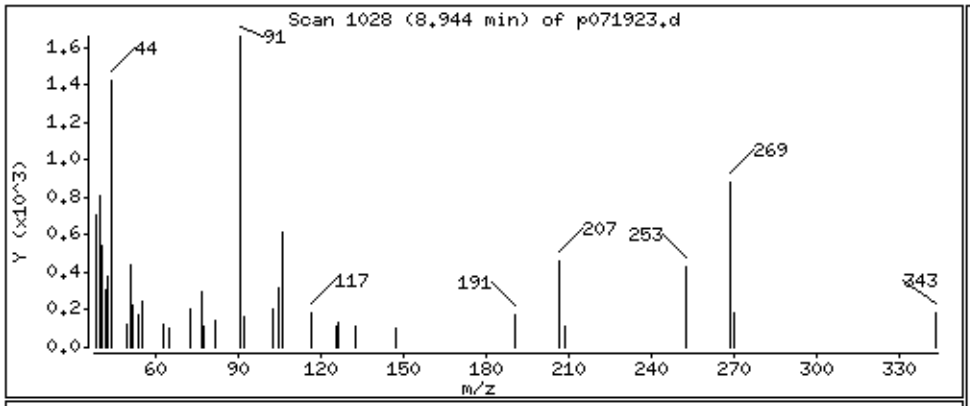
Operator: gh

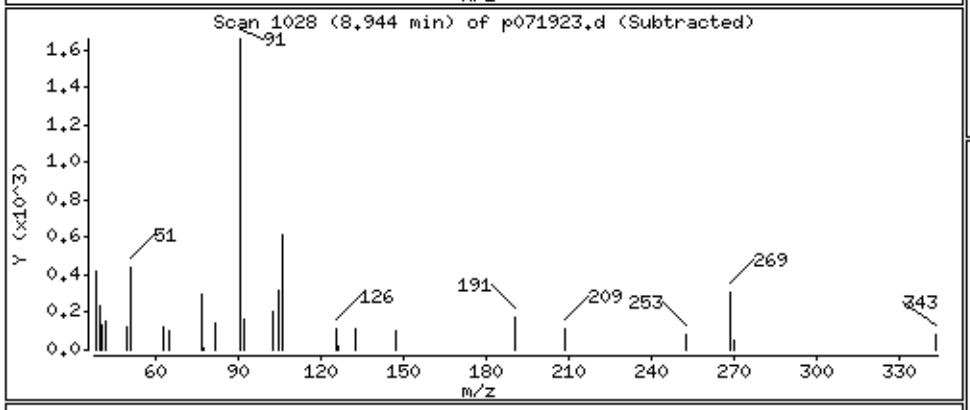
Column phase: RTX-624

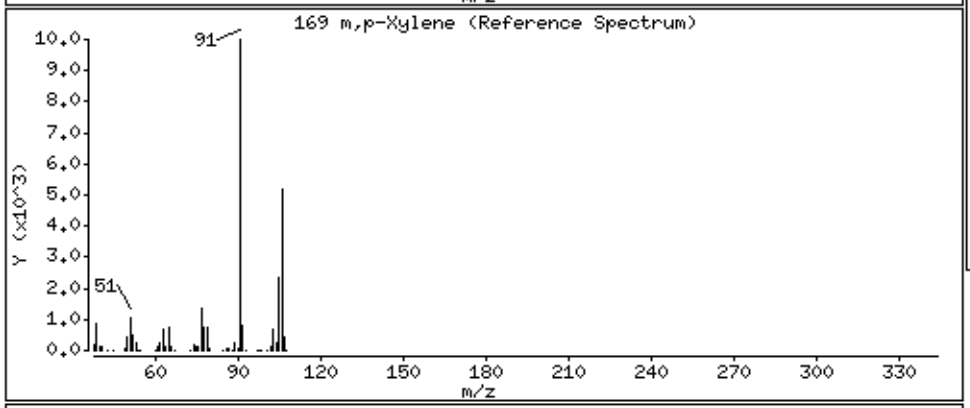
Column diameter: 0.25

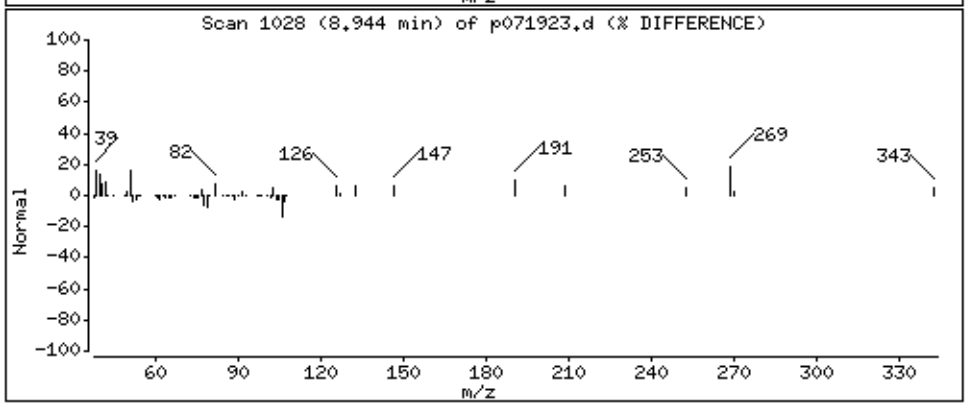
169 m,p-Xylene

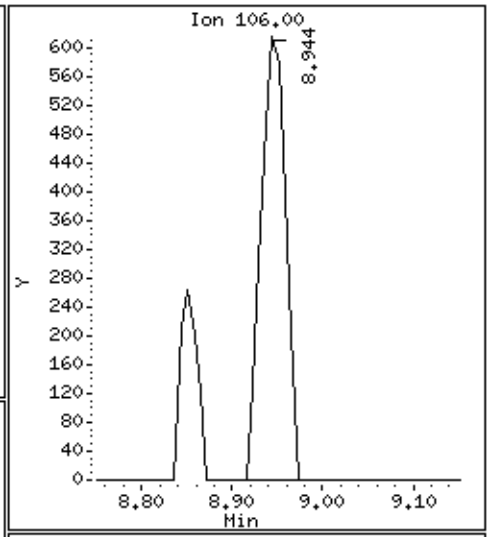
Concentration: 0.3915 PPBV

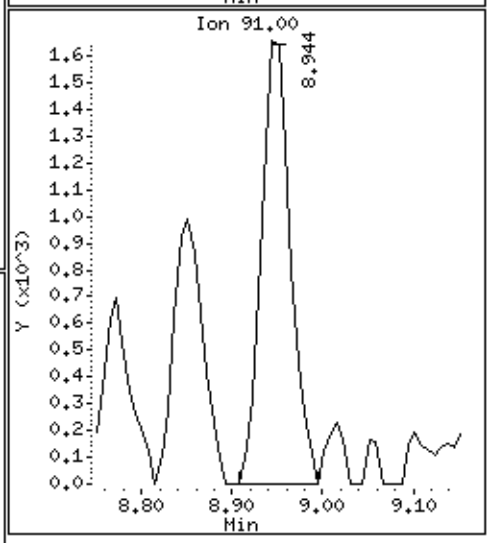












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

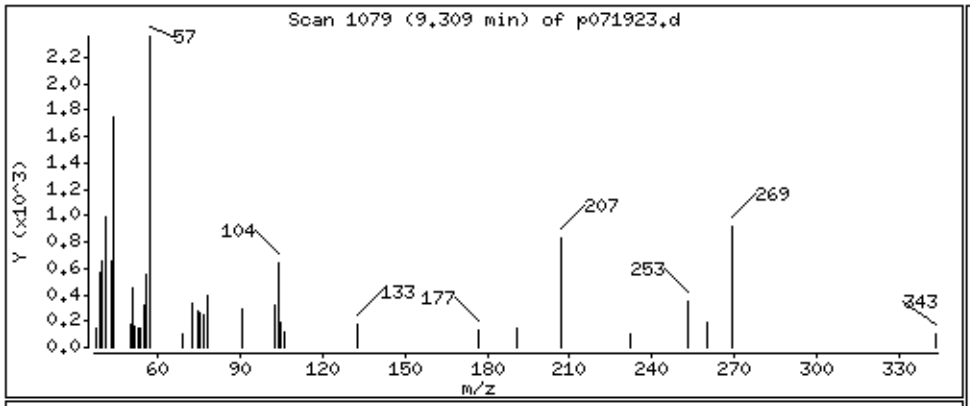
Operator: gh

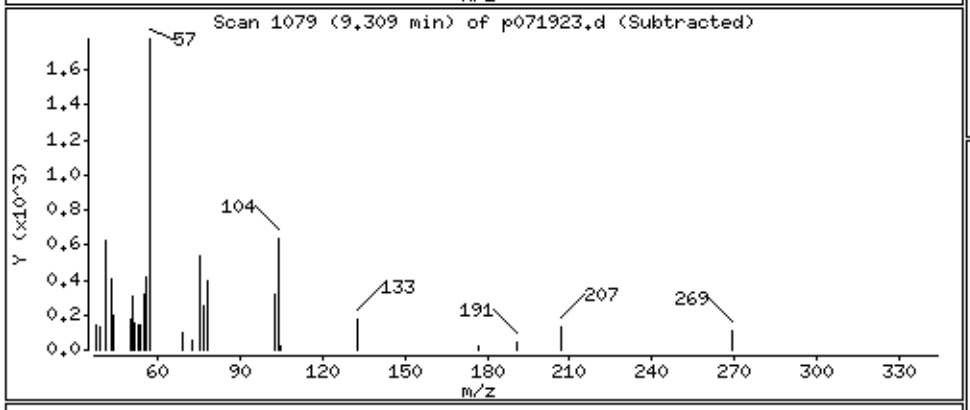
Column phase: RTX-624

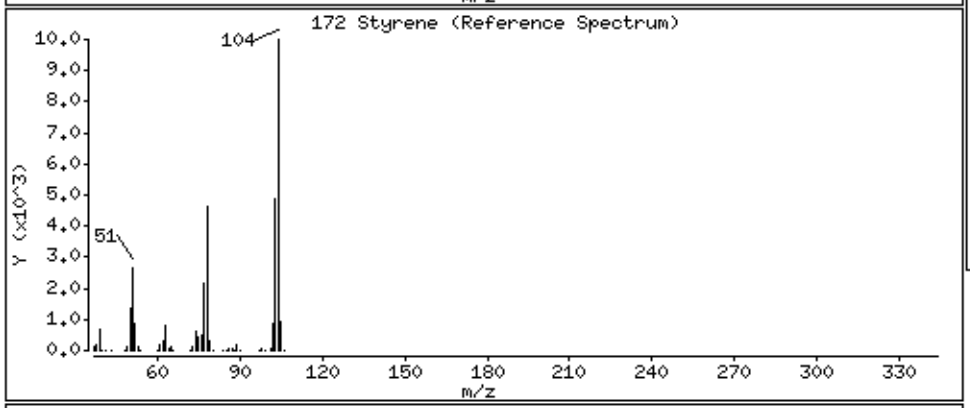
Column diameter: 0.25

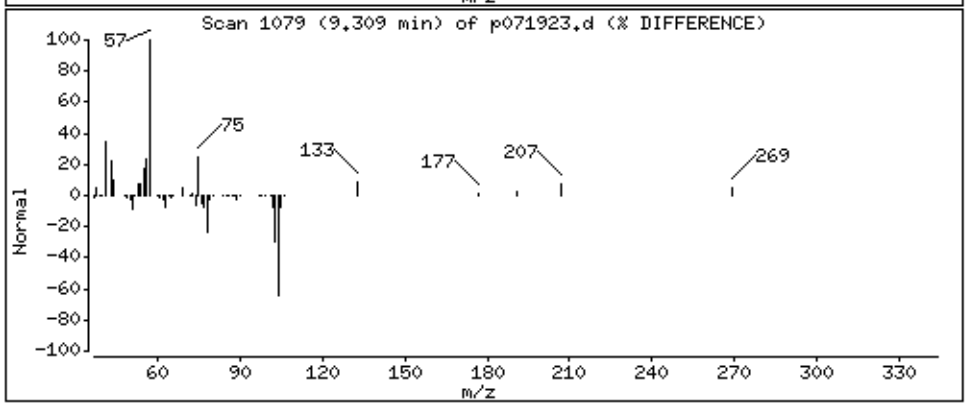
172 Styrene

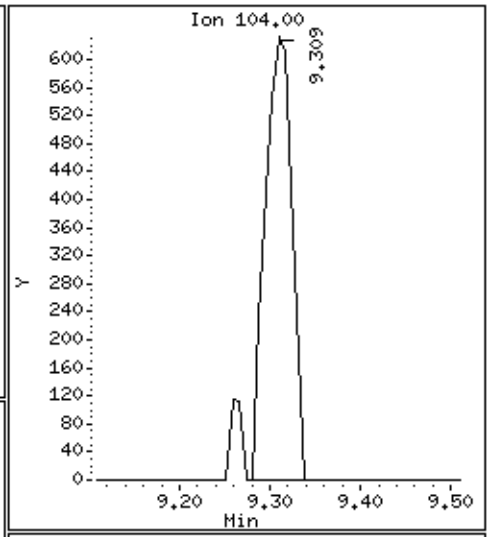
Concentration: 0.2913 PPBV

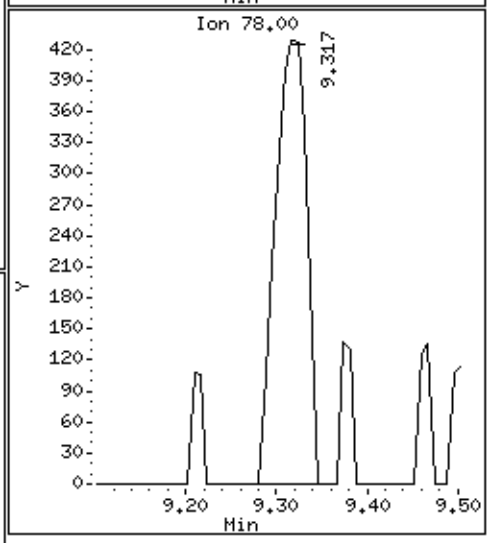












Data File: /chem/msdp.i/19jul16.b/p071923.d

Date : 20-JUL-2016 00:03

Client ID:

Instrument: msdp.i

Sample Info: 200ml 1025

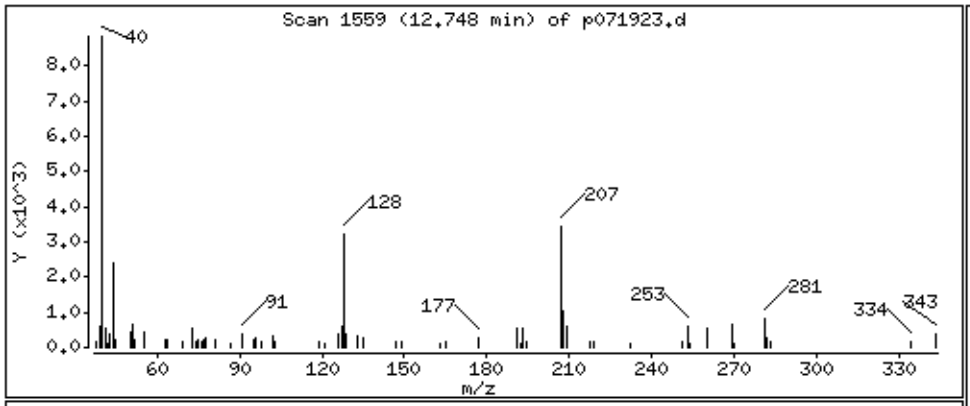
Operator: gh

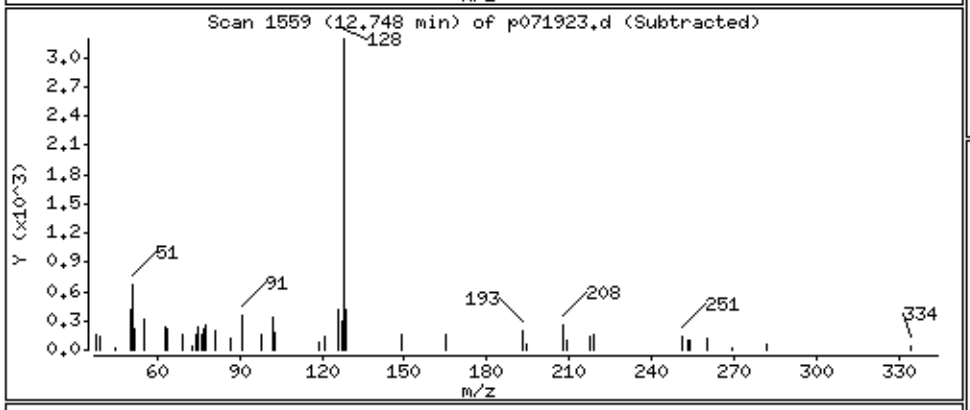
Column phase: RTX-624

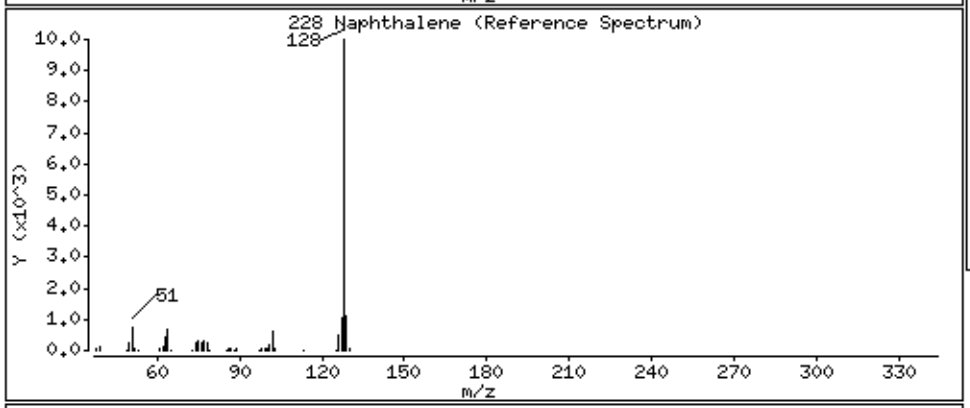
Column diameter: 0.25

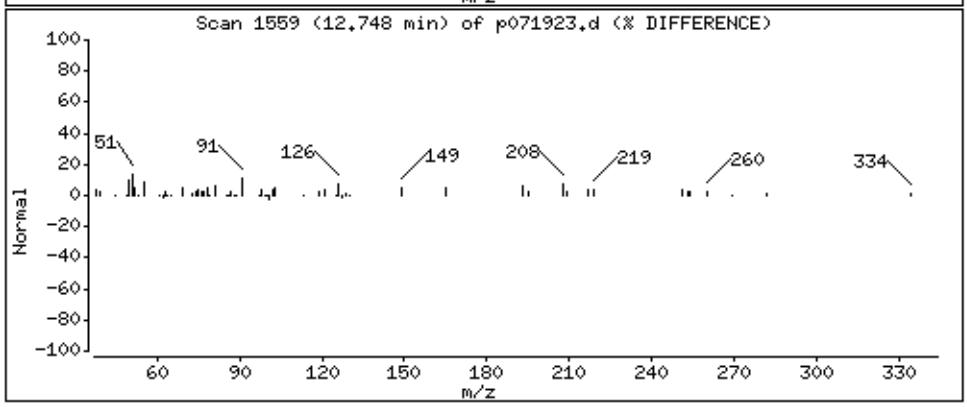
228 Naphthalene

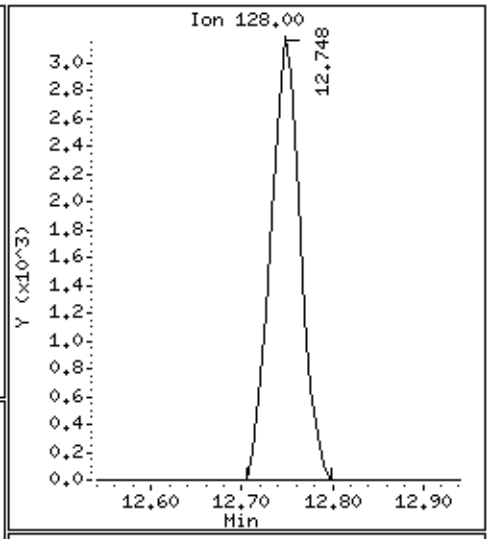
Concentration: 0.7657 PPBV

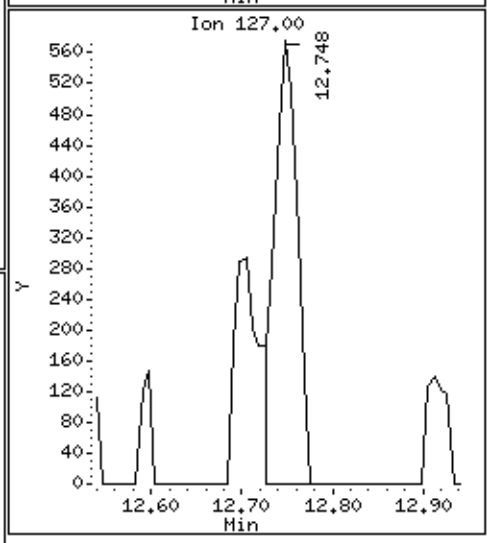












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B18SS-5

Lab ID#: 1607235E-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.8	2.5 J
Freon 11	1.2	0.45 J	6.6	2.5 J
Ethanol	4.7	11	8.8	20
Acetone	12	11 J	28	27 J
2-Propanol	4.7	2.5 J	12	6.2 J
Carbon Disulfide	4.7	1.5 J	14	4.8 J
2-Butanone (Methyl Ethyl Ketone)	4.7	3.3 J	14	9.6 J
Chloroform	1.2	0.80 J	5.7	3.9 J
2,2,4-Trimethylpentane	1.2	0.22 J	5.5	1.0 J
Toluene	1.2	0.52 J	4.4	2.0 J
Tetrachloroethene	1.2	1.1 J	7.9	7.6 J
Naphthalene	2.3	0.40 J	12	2.1 J

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Client Sample ID: B18SS-5

Lab ID#: 1607235E-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071924**	**Date of Collection:**	**7/12/16 6:01:00 PM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**7/20/16 12:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.8	2.5 J
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	0.45 J	6.6	2.5 J
Ethanol	4.7	11	8.8	20
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	11 J	28	27 J
2-Propanol	4.7	2.5 J	12	6.2 J
Carbon Disulfide	4.7	1.5 J	14	4.8 J
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	3.3 J	14	9.6 J
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	0.80 J	5.7	3.9 J
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
2,2,4-Trimethylpentane	1.2	0.22 J	5.5	1.0 J
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	0.52 J	4.4	2.0 J
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	1.1 J	7.9	7.6 J
2-Hexanone	4.7	Not Detected	19	Not Detected

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Client Sample ID: B18SS-5

Lab ID#: 1607235E-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071924**	**Date of Collection:**	**7/12/16 6:01:00 PM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**7/20/16 12:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Naphthalene	2.3	0.40 J	12	2.1 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	93	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071924.d
Lab Smp Id: 1607235E-12A
Inj Date : 20-JUL-2016 00:30
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 36525
Misc Info : 4.3 Hg->14.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 22-Jul-2016 13:56 snguyen Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 8
Dil Factor: 2.34000
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.441 (1.000)	130	82034	25.0000		80.00- 120.00	100.00
5.449	5.441 (1.000)	128	65258			49.40- 109.40	79.55
5.441	5.434 (1.000)	49	192955			153.31- 213.31	235.21
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.330 (1.000)	114	318479	25.0000		80.00- 120.00	100.00
6.337	6.330 (1.000)	88	44284			0.00- 43.38	13.90
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.772 (1.000)	117	296670	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	159628			21.26- 81.26	53.81
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.097)	65	138632	27.5139	27.514	80.00- 120.00	100.00
5.979	5.971 (1.097)	67	68134			25.58- 85.58	49.15
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.191)	98	327805	25.5013	25.501	80.00- 120.00	100.00
7.547	7.547 (1.191)	70	36733			0.00- 40.37	11.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8 (continued)							
7.547	7.547 (1.191)	100	217964			38.69- 98.69	66.49
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.754	9.754 (1.111)	174	226118	23.3087	23.309	80.00- 120.00	100.00
9.754	9.754 (1.111)	95	212691			59.95- 119.95	94.06
9.754	9.754 (1.111)	176	214770			67.47- 127.47	94.98
11 Freon 12					CAS #: 75-71-8		
1.521	1.507 (0.279)	85	2071	0.21941	0.5134	80.00- 120.00	100.00(a)
1.507	1.507 (0.276)	87	447			2.43- 62.43	21.60
35 Freon 11					CAS #: 75-69-4		
2.569	2.562 (0.472)	101	1895	0.19146	0.4480	80.00- 120.00	100.00(a)
2.569	2.562 (0.472)	103	869			35.01- 95.01	45.86
42 Ethanol					CAS #: 64-17-5		
2.927	2.870 (0.537)	45	8840	4.63838	10.854	80.00- 120.00	100.00(M)
2.877	2.870 (0.528)	43	394			0.00- 51.15	4.46
2.884	2.870 (0.529)	46	949			7.97- 67.97	10.73
52 Acetone					CAS #: 67-64-1		
3.393	3.371 (0.623)	58	10728	4.86067	11.374	80.00- 120.00	100.00(a)
3.393	3.371 (0.623)	43	44955			353.98- 413.98	419.02
56 Carbon Disulfide					CAS #: 75-15-0		
3.464	3.464 (0.636)	76	6158	0.65662	1.536	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.558	3.536 (0.653)	45	10378	1.08363	2.536	80.00- 120.00	100.00(a)
3.558	3.543 (0.653)	43	2322			0.00- 50.28	22.38
3.565	3.543 (0.654)	59	112			0.00- 33.15	1.08
92 2-Butanone					CAS #: 78-93-3		
5.248	5.234 (0.963)	72	2307	1.39395	3.262	80.00- 120.00	100.00(a)
5.241	5.234 (0.962)	43	21705			611.89- 671.89	940.73
5.241	5.234 (0.962)	57	1199			17.72- 77.72	51.98
100 Chloroform					CAS #: 67-66-3		
5.499	5.506 (1.009)	83	2427	0.34016	0.7960	80.00- 120.00	100.00(a)
5.506	5.499 (1.010)	85	1671			35.28- 95.28	68.87
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.950	5.950 (1.092)	57	2324	0.09405	0.2201	80.00- 120.00	100.00(a)
5.943	5.950 (1.091)	56	459			2.51- 62.51	19.79
5.957	5.950 (1.093)	41	999			0.00- 58.92	42.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
147 Toluene					CAS #: 108-88-3		
7.605	7.605 (1.200)	91	3031	0.22435	0.5250	80.00- 120.00	100.00(a)
7.605	7.605 (1.200)	92	1168			28.28- 88.28	38.56
156 Tetrachloroethene					CAS #: 127-18-4		
8.042	8.042 (0.916)	166	3918	0.48162	1.127	80.00- 120.00	100.00(a)
8.042	8.034 (0.916)	129	2824			34.91- 94.91	72.08
8.034	8.042 (0.915)	131	2792			34.35- 94.35	71.25
228 Naphthalene					CAS #: 91-20-3		
12.741	12.741 (1.451)	128	4089	0.17226	0.4031	80.00- 120.00	100.00(a)
12.741	12.741 (1.451)	127	913			0.00- 43.45	22.33

QC Flag Legend

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

Report Date: 27-Jul-2016 16:06

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071924.d
Lab Smp Id: 1607235E-12A
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.3 Hg->14.8 psi

Calibration Date: 19-JUL-2016
Calibration Time: 11:28

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	82034	-13.89
123 1,4-Difluorobenze	379135	227481	530789	318479	-16.00
163 Chlorobenzene-d5	348612	209167	488057	296670	-14.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.78	0.08

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

Report Date: 27-Jul-2016 16:06

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 19jul16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1607235E-12A
Level: LOW
Operator: gh
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.3 Hg->14.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.514	110.06	70-130
$ 146 Toluene-d8	25.000	25.501	102.01	70-130
$ 177 4-Bromofluorobenze	25.000	23.309	93.23	70-130

Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

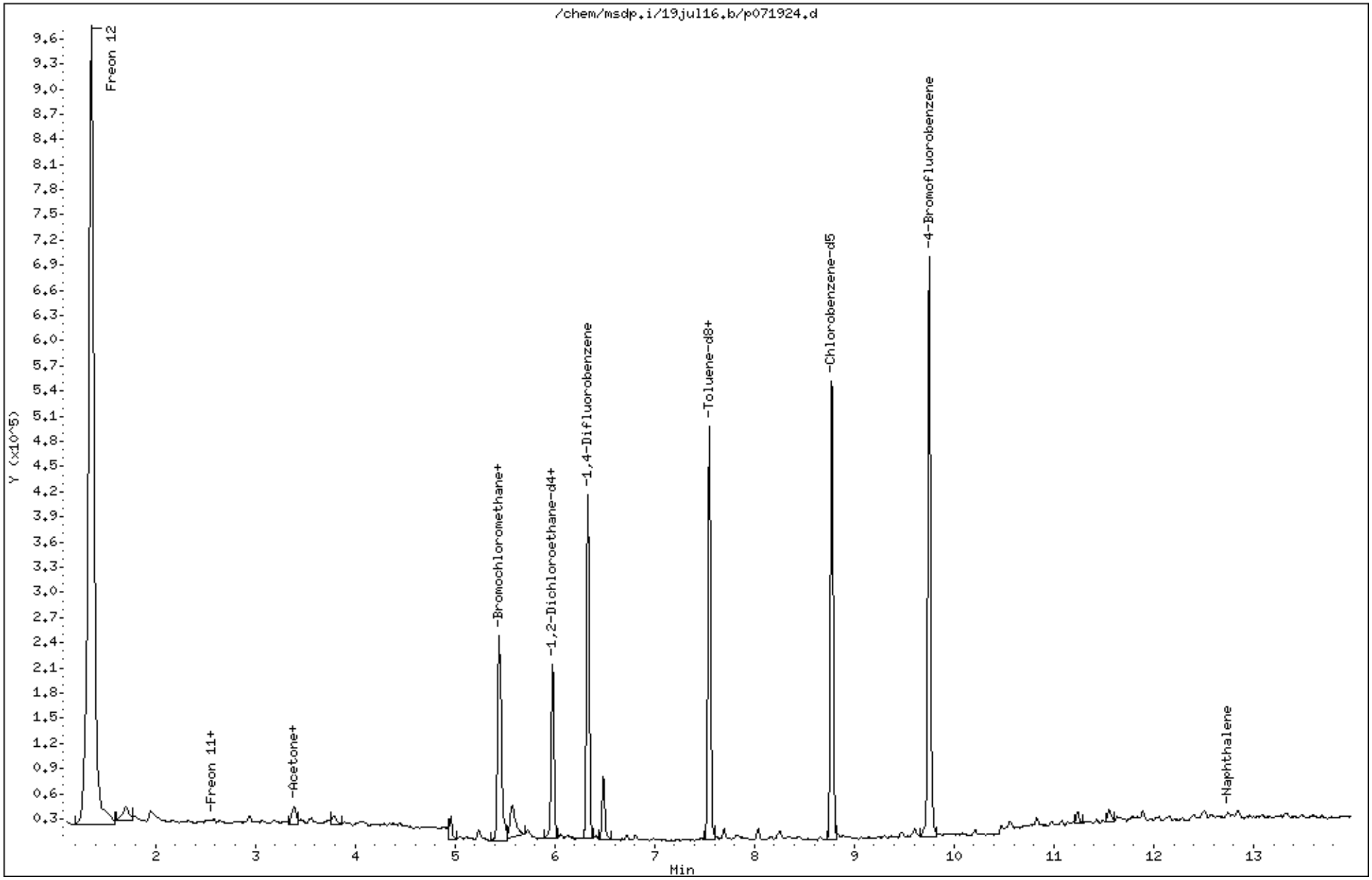
Sample Info: 200ml 36525

Column phase: RTX-624

Instrument: msdp.i

Operator: gh

Column diameter: 0.25



Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

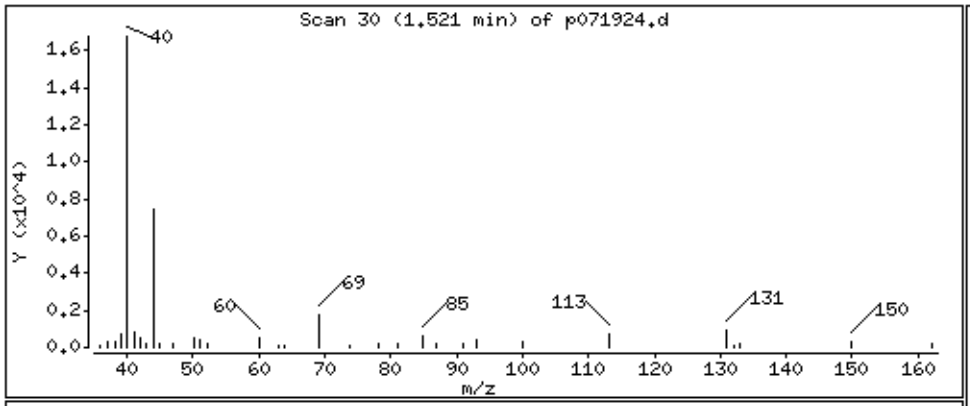
Operator: gh

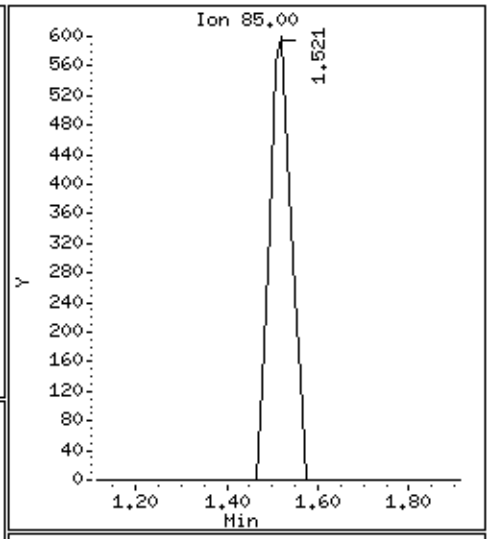
Column phase: RTX-624

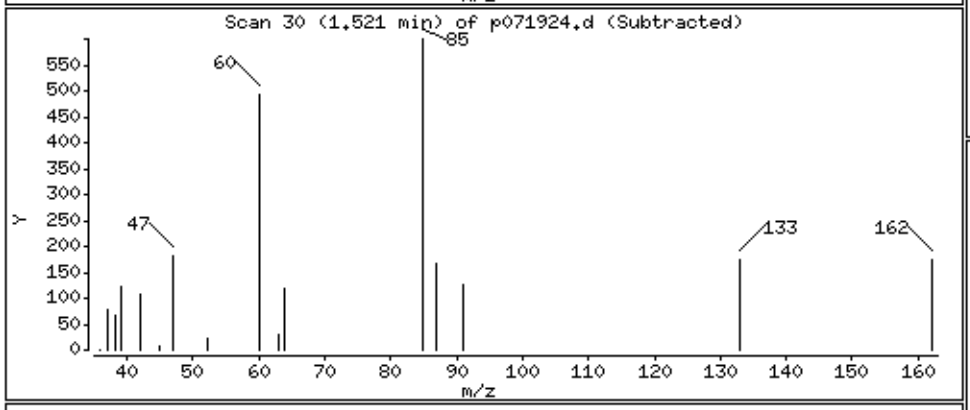
Column diameter: 0.25

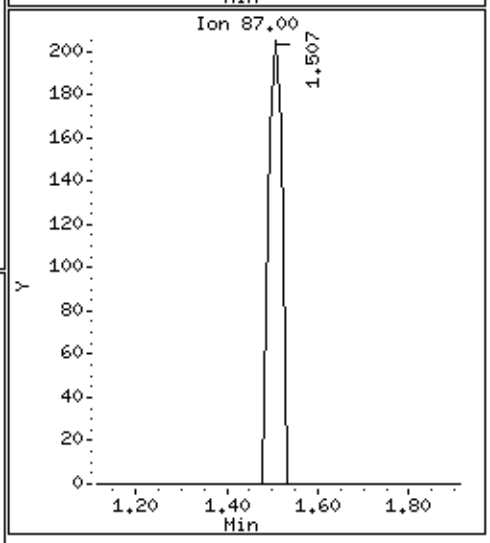
11 Freon 12

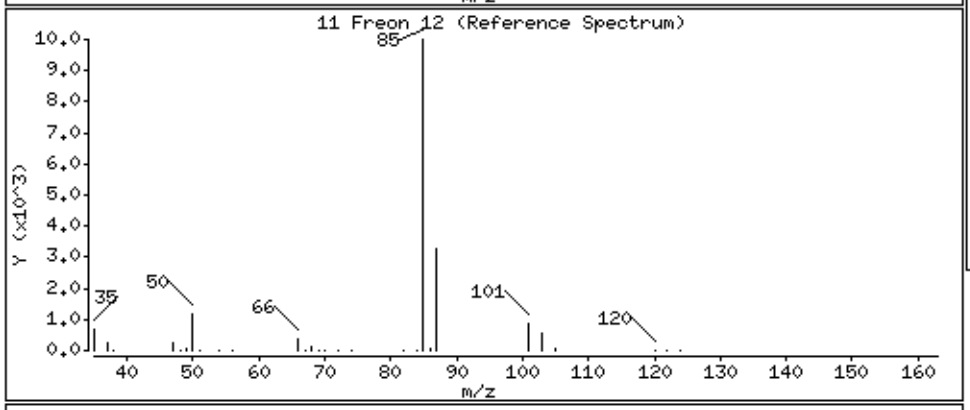
Concentration: 0.5134 PPBV

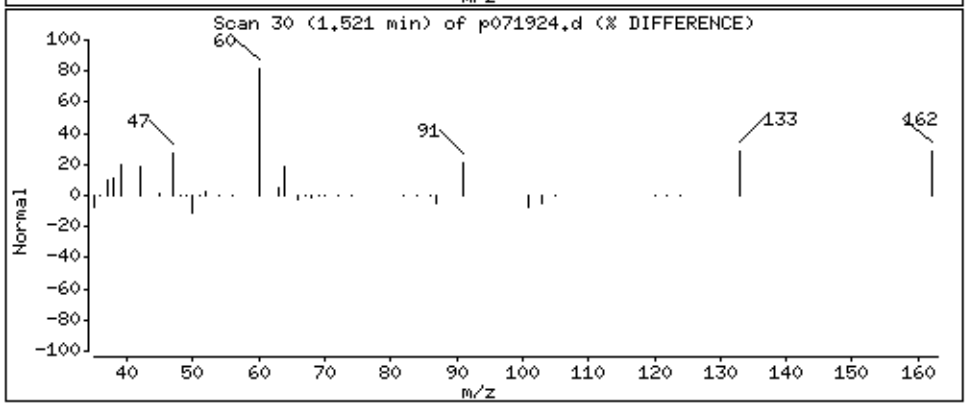












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

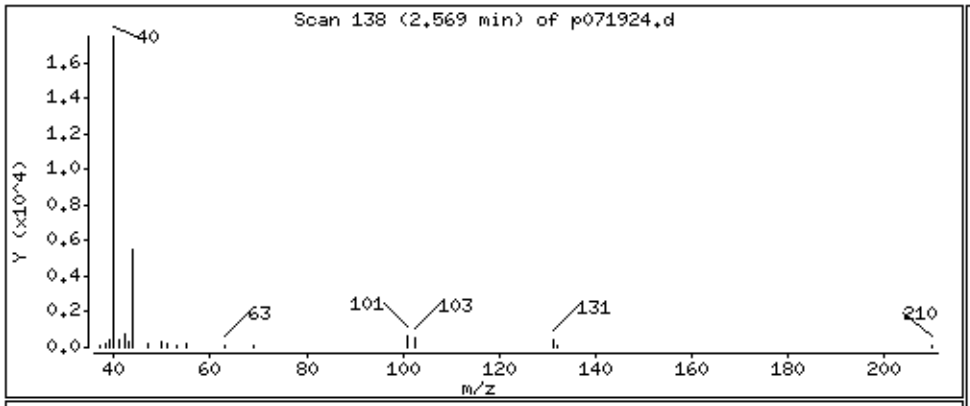
Operator: gh

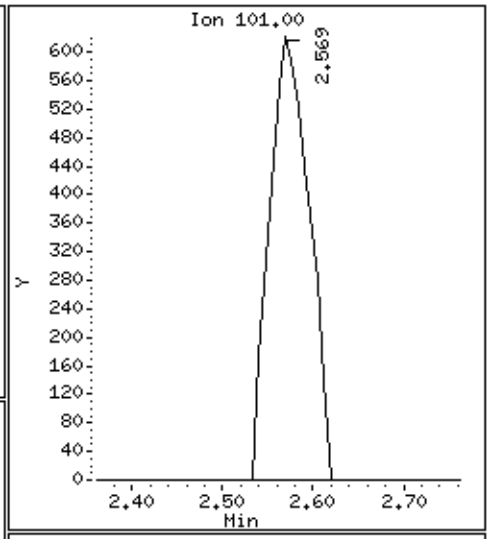
Column phase: RTX-624

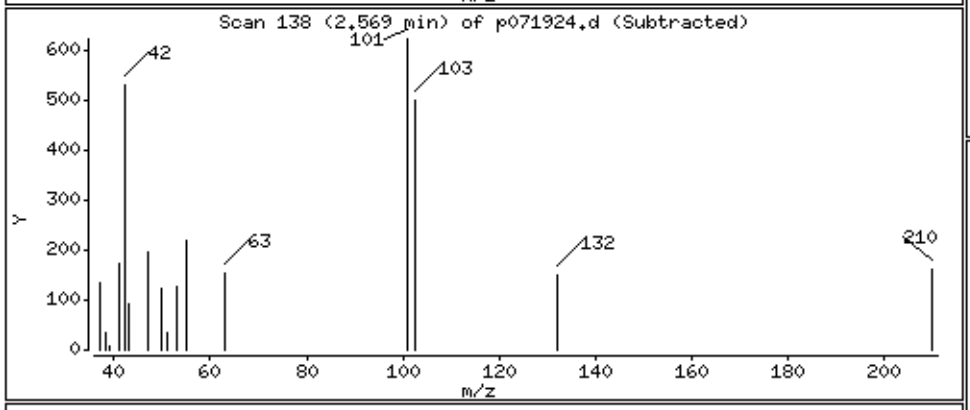
Column diameter: 0.25

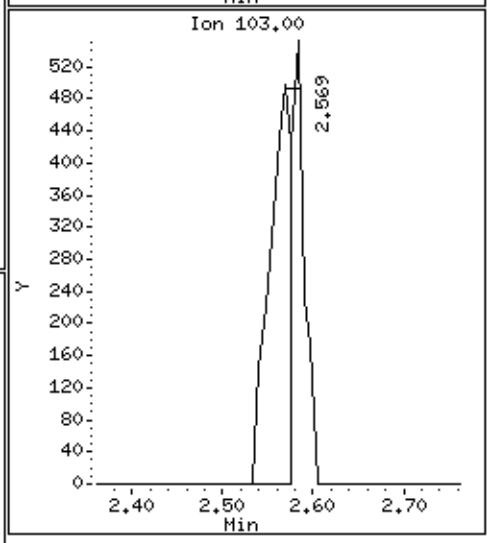
35 Freon 11

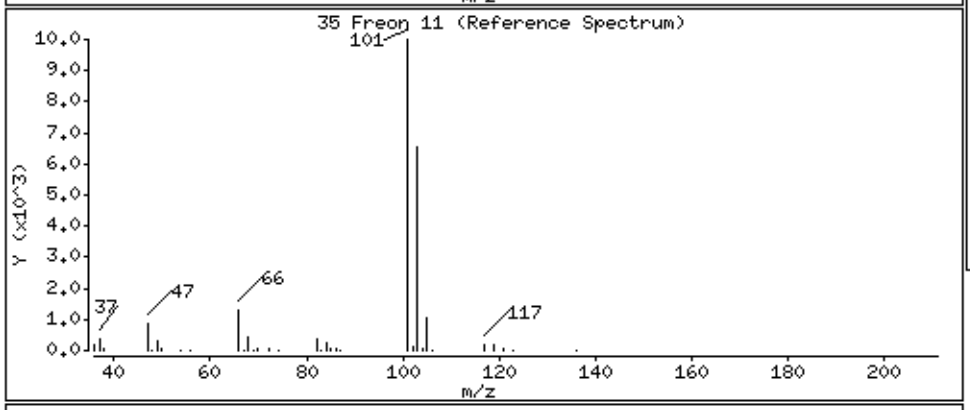
Concentration: 0.4480 PPBV

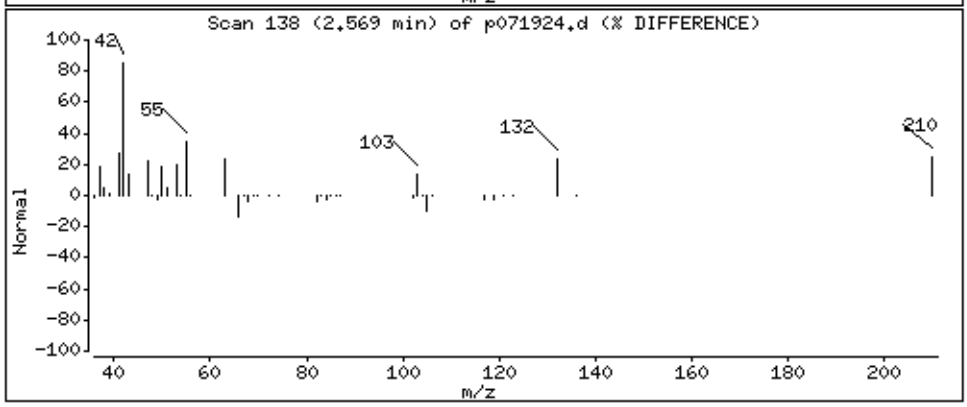












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

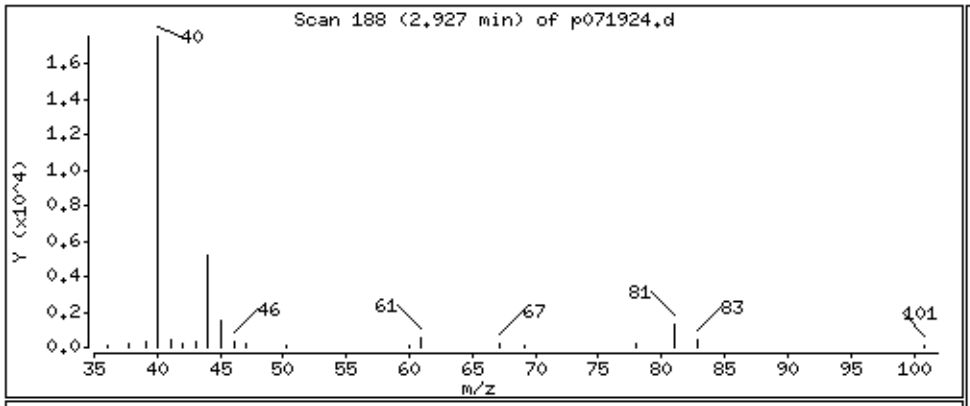
Operator: gh

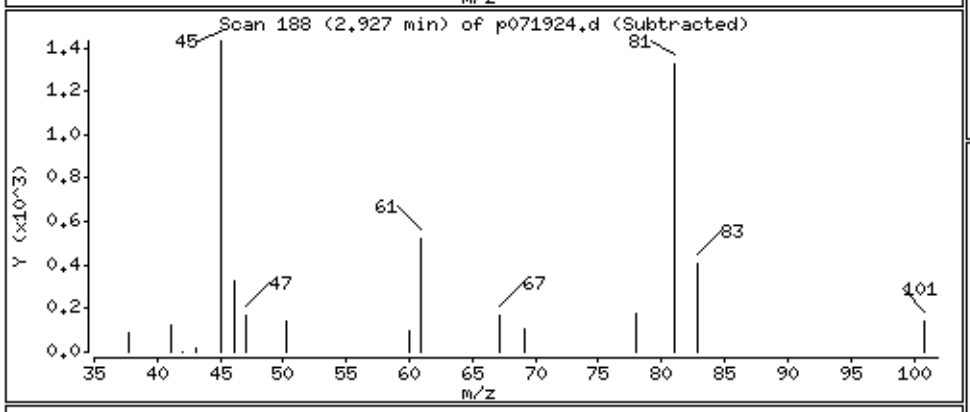
Column phase: RTX-624

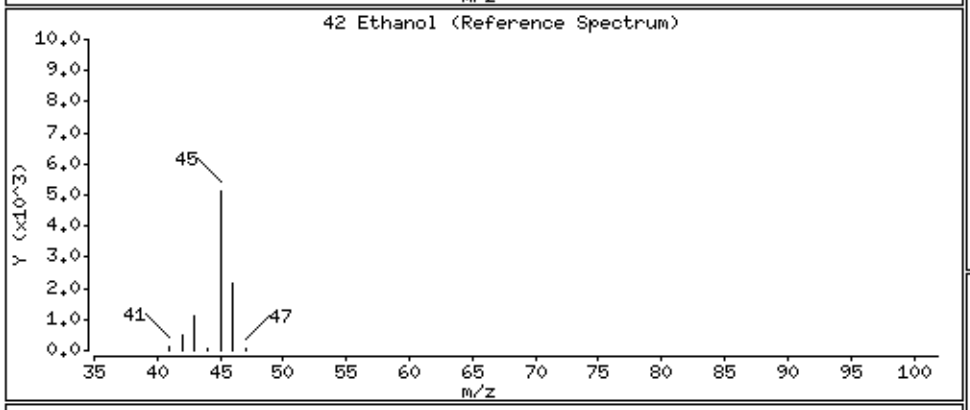
Column diameter: 0.25

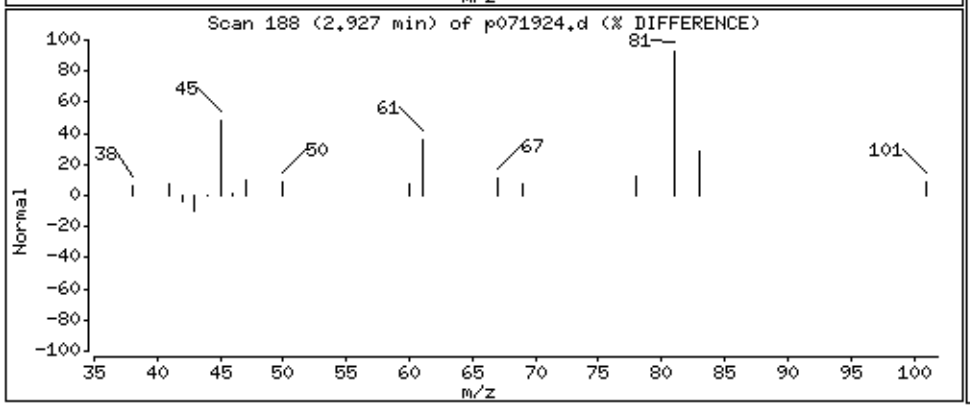
42 Ethanol

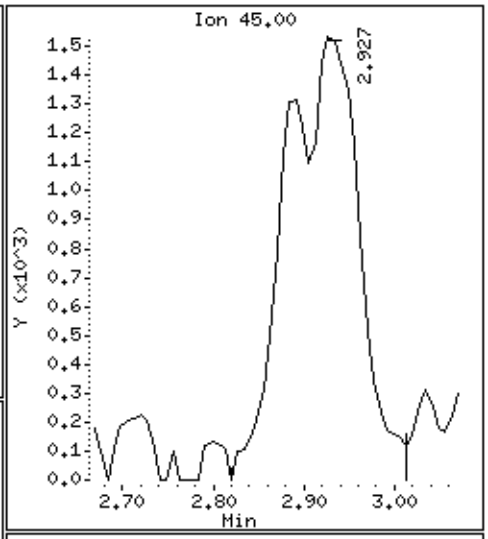
Concentration: 10.854 PPBV

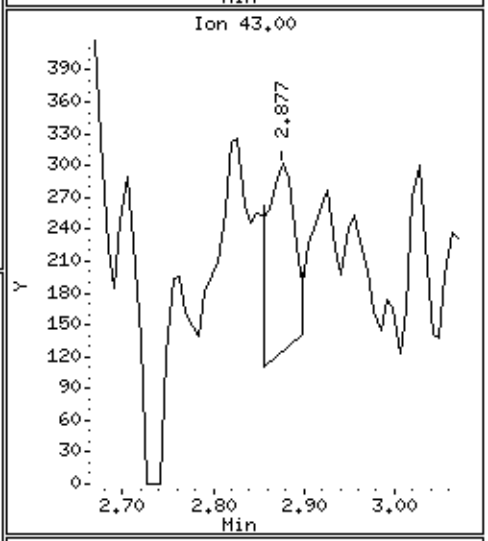


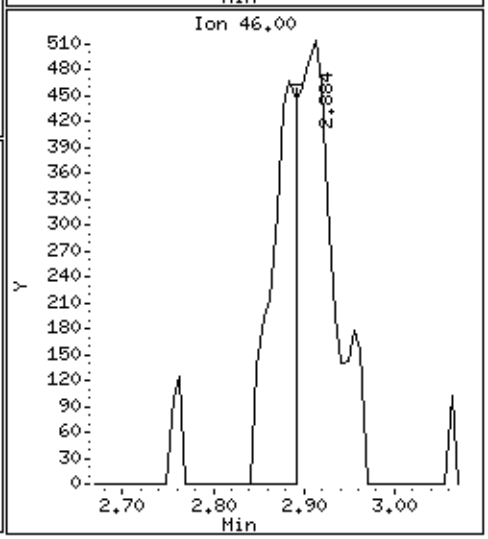












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

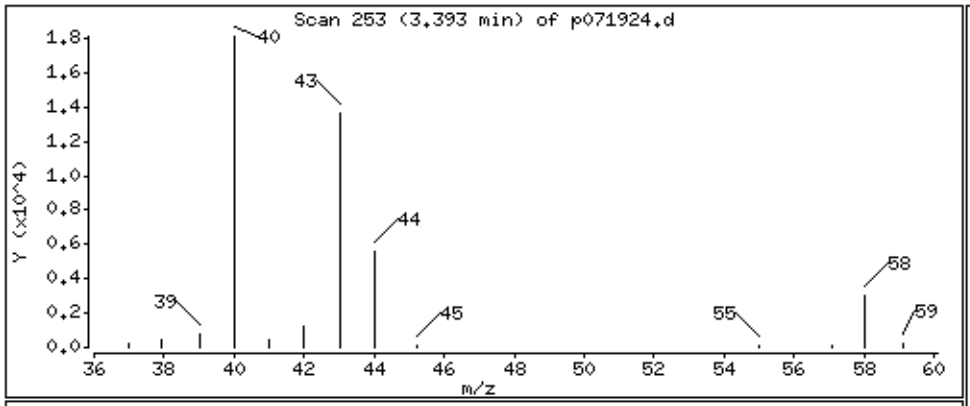
Operator: gh

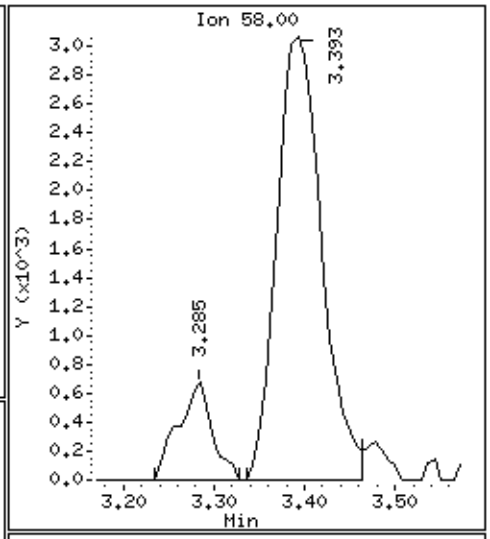
Column phase: RTX-624

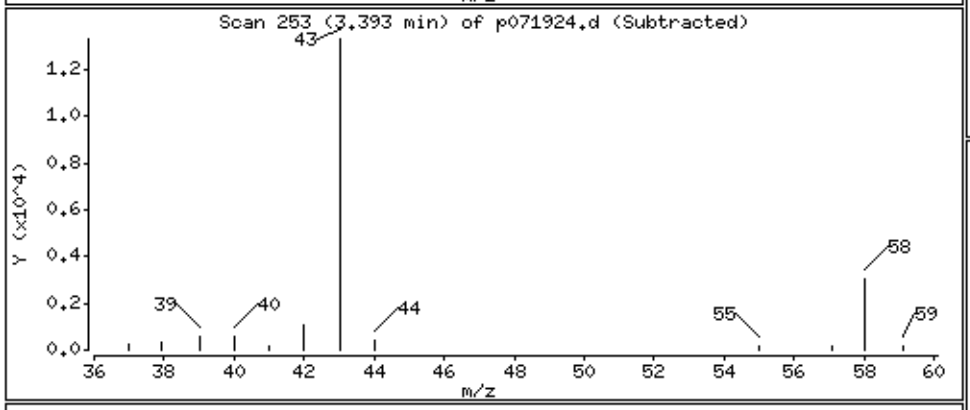
Column diameter: 0.25

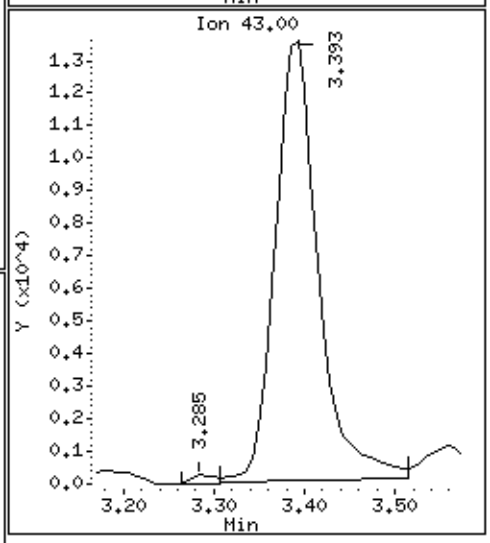
52 Acetone

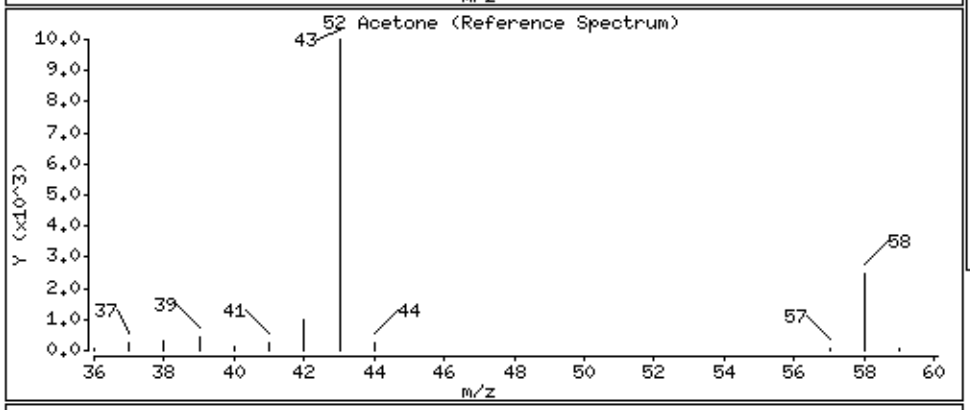
Concentration: 11.374 PPBV

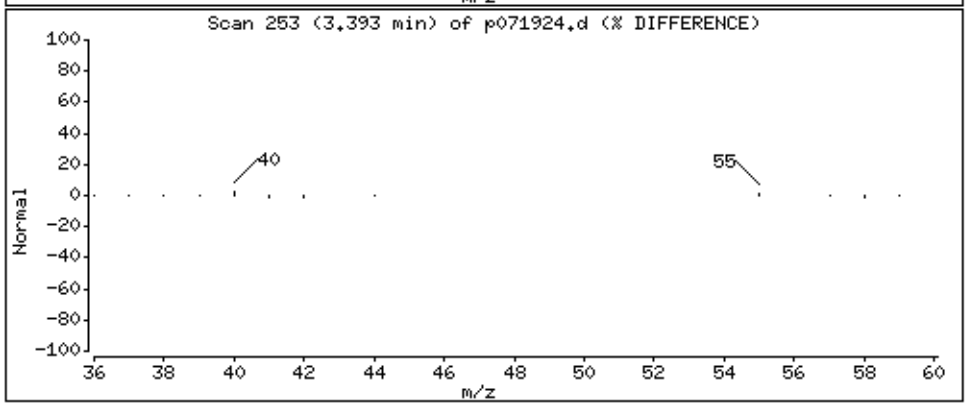












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

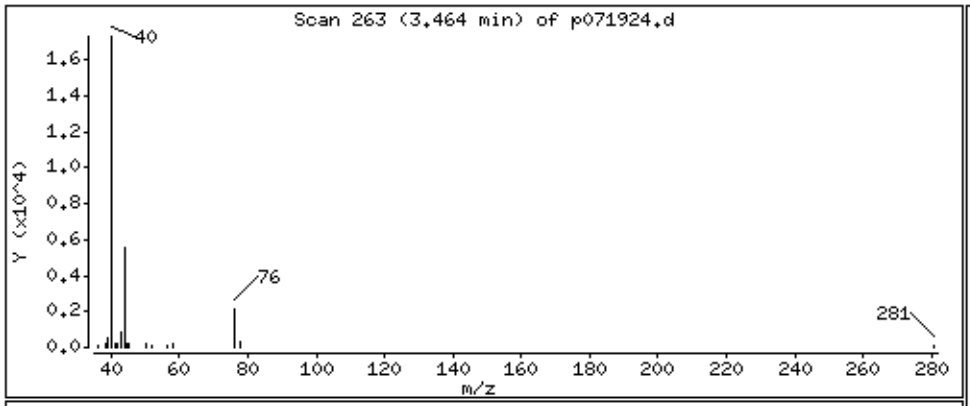
Operator: gh

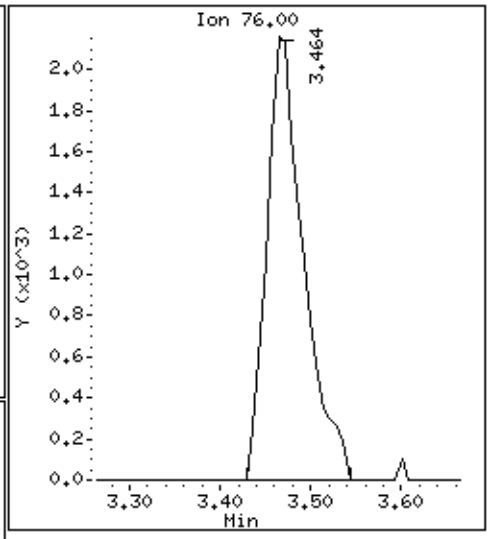
Column phase: RTX-624

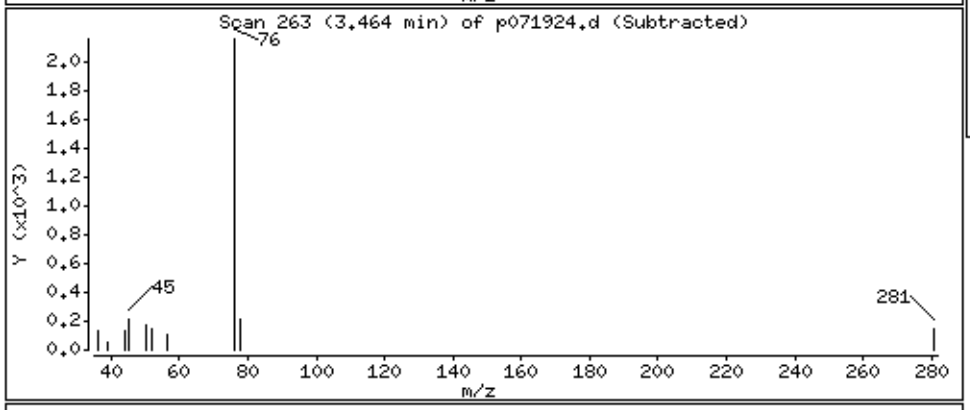
Column diameter: 0.25

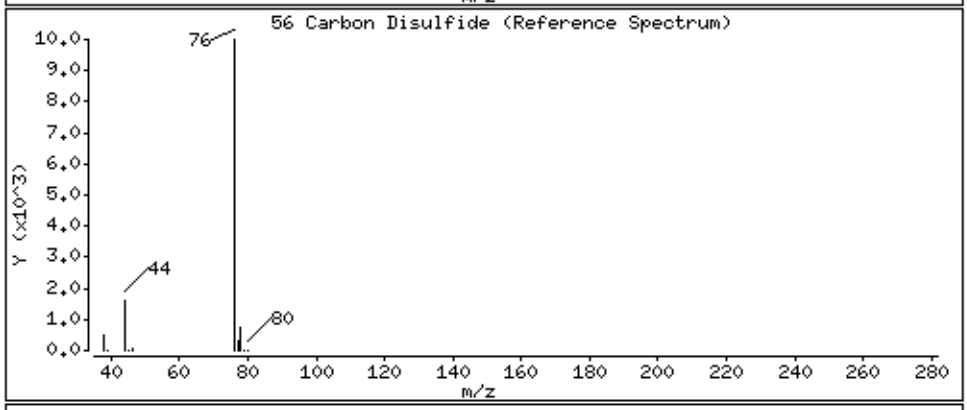
56 Carbon Disulfide

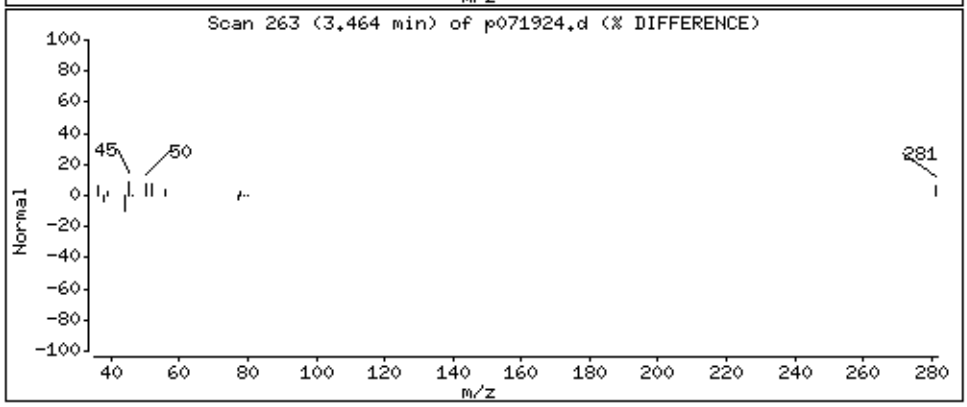
Concentration: 1.536 PPBV











Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

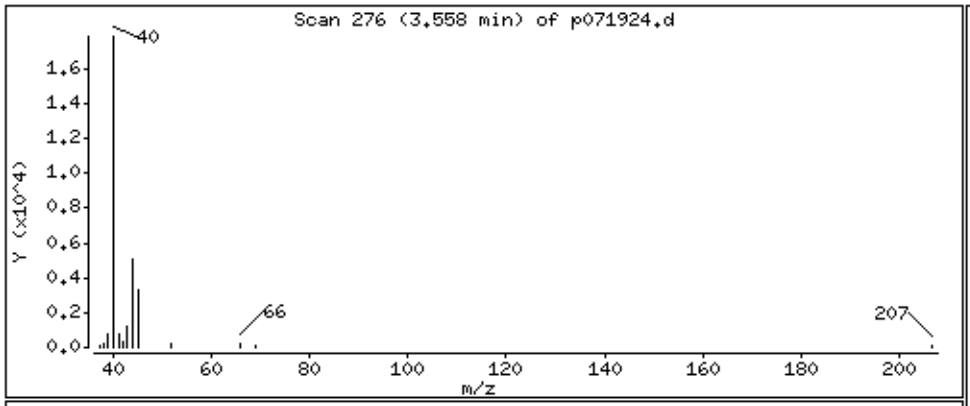
Operator: gh

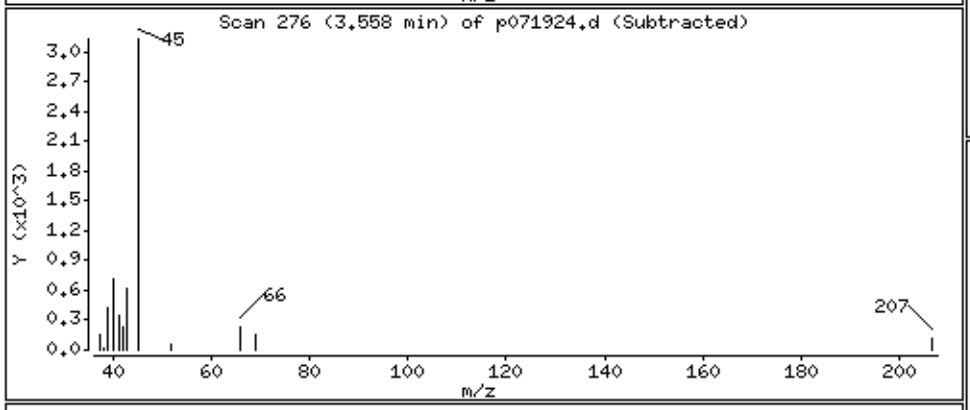
Column phase: RTX-624

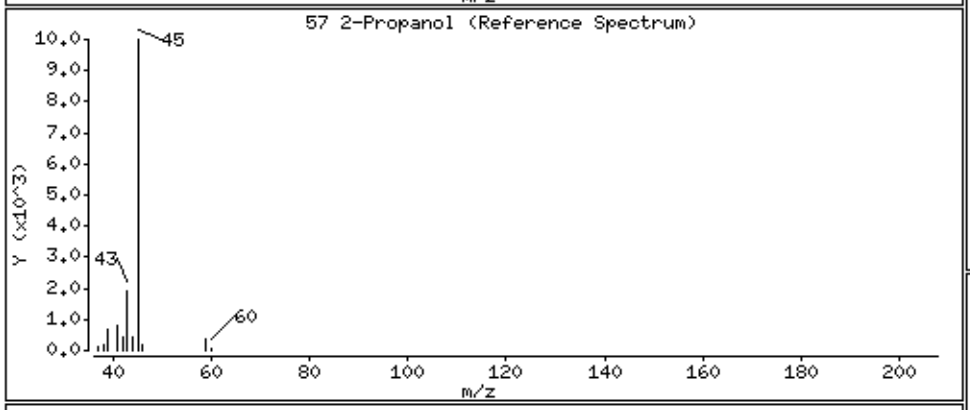
Column diameter: 0.25

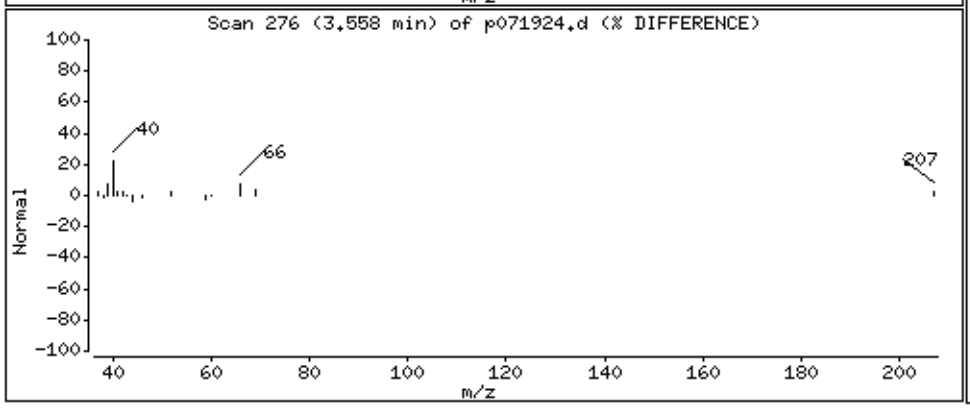
57 2-Propanol

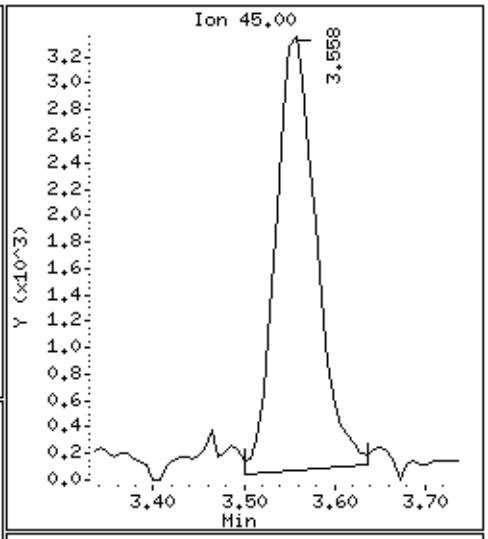
Concentration: 2.536 PPBV

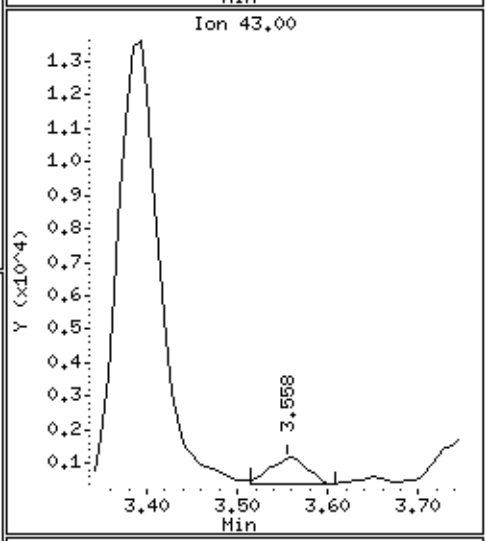


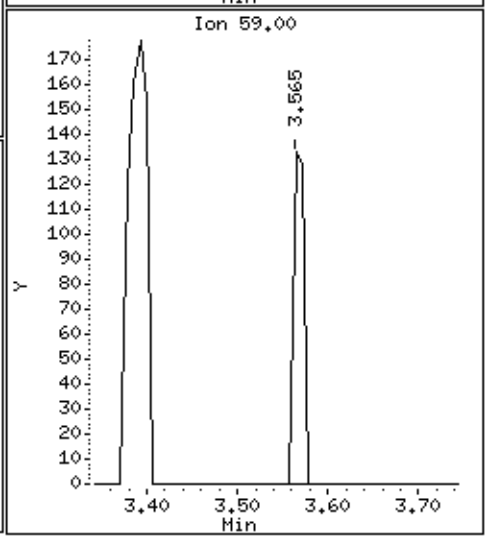












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

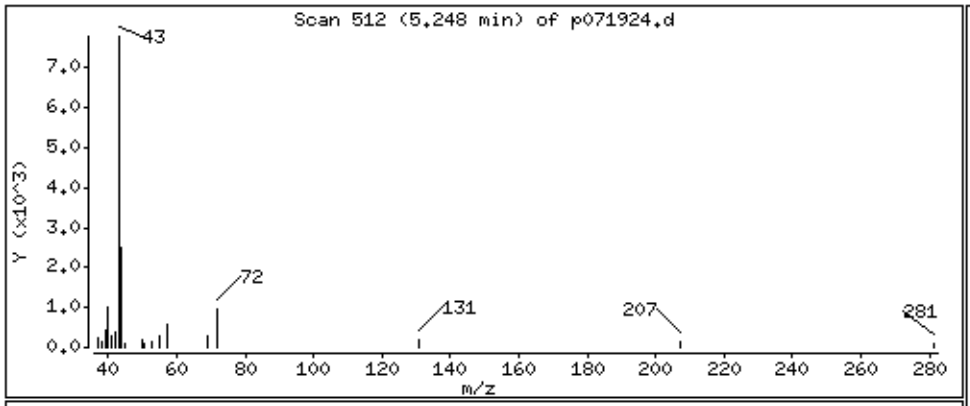
Operator: gh

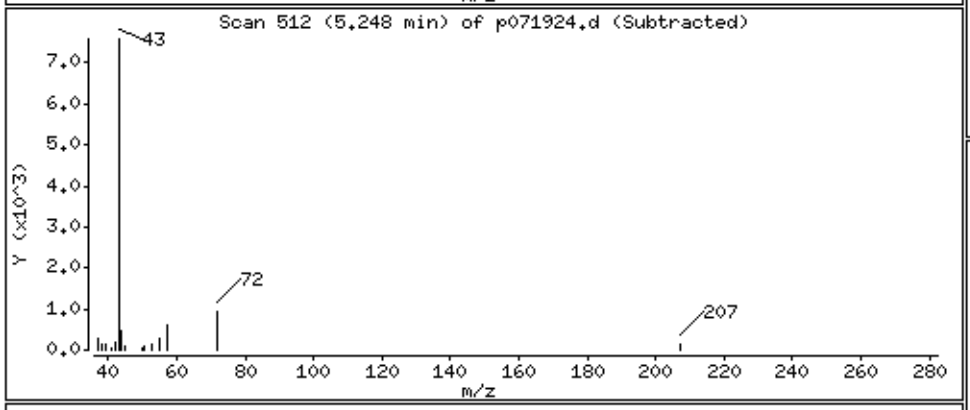
Column phase: RTX-624

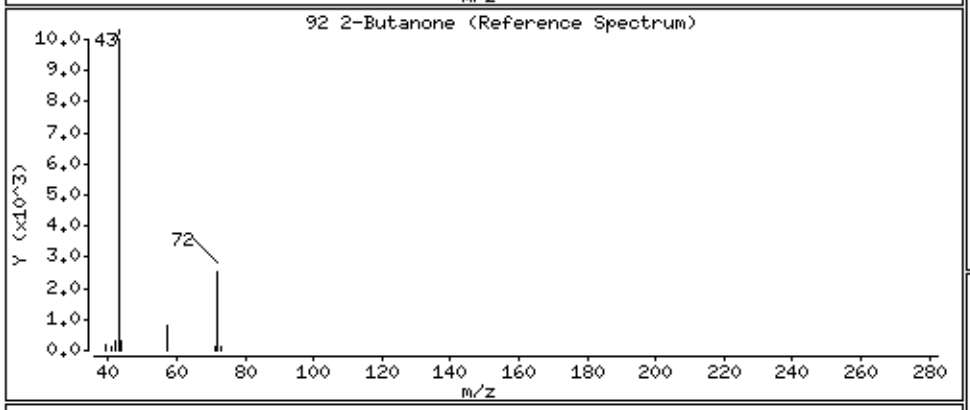
Column diameter: 0.25

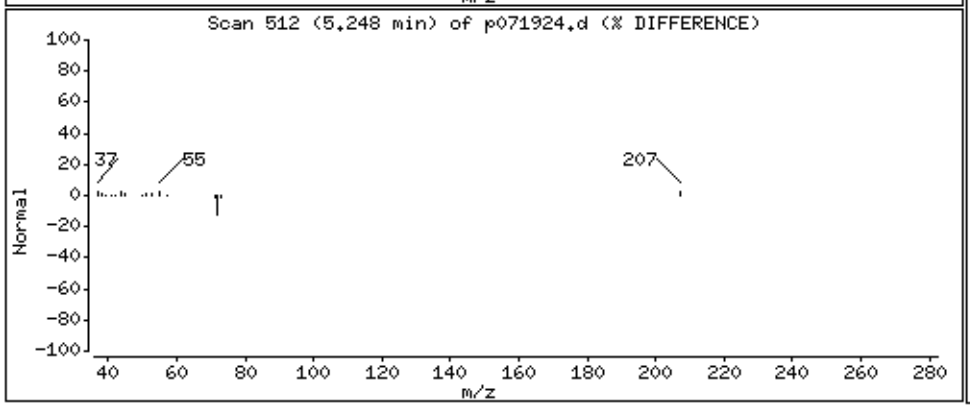
92 2-Butanone

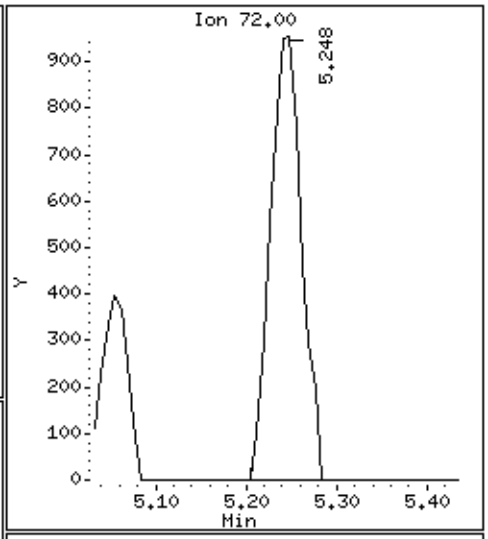
Concentration: 3.262 PPBV

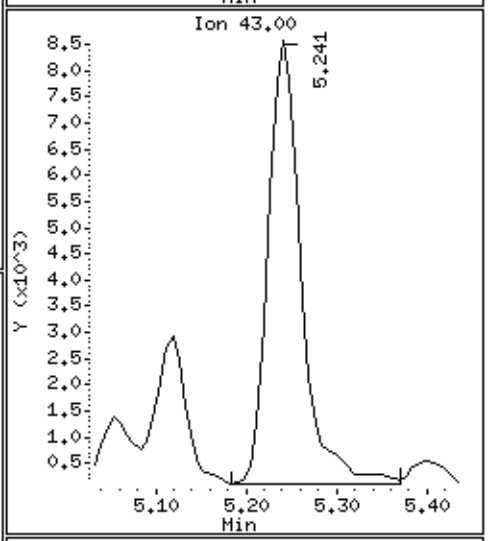


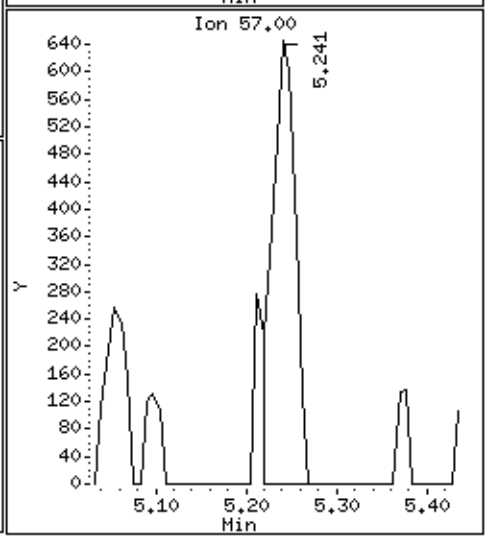












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

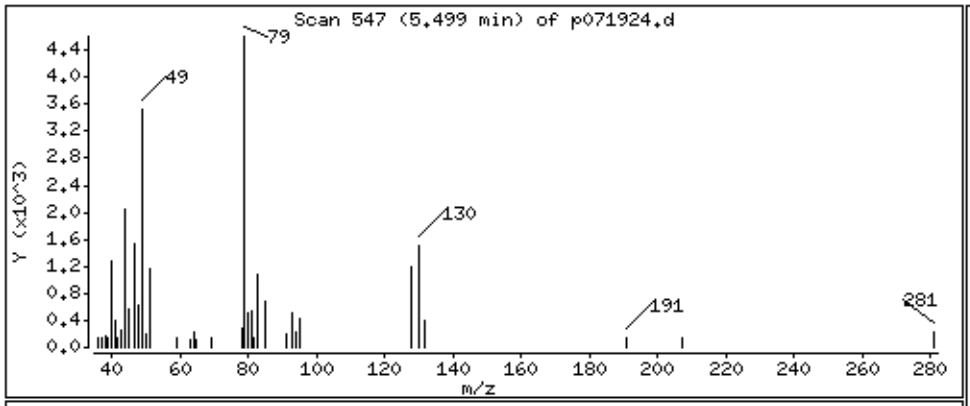
Operator: gh

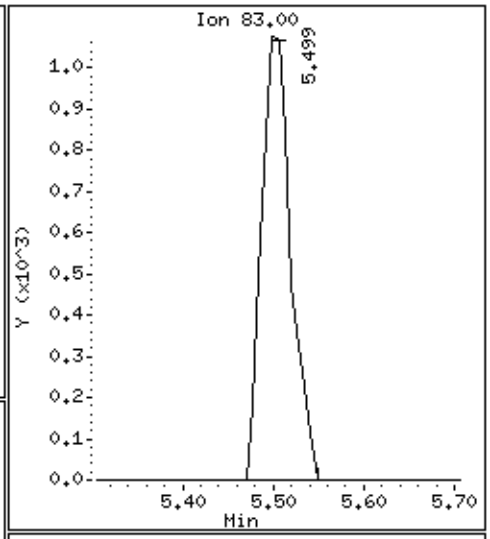
Column phase: RTX-624

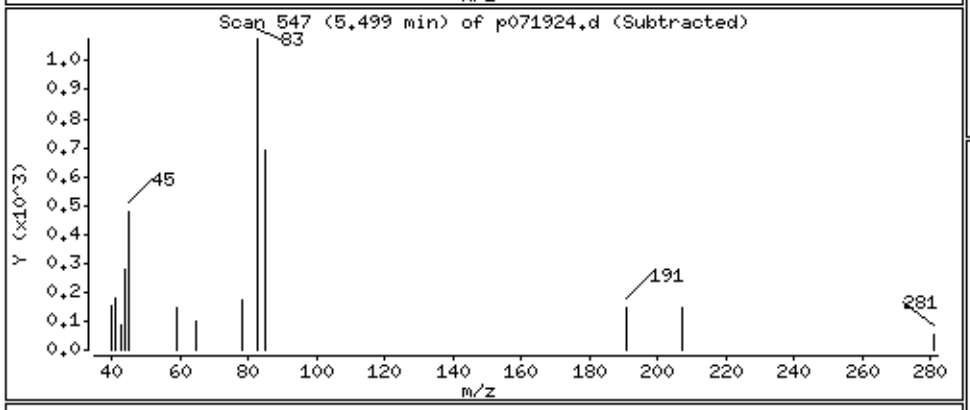
Column diameter: 0.25

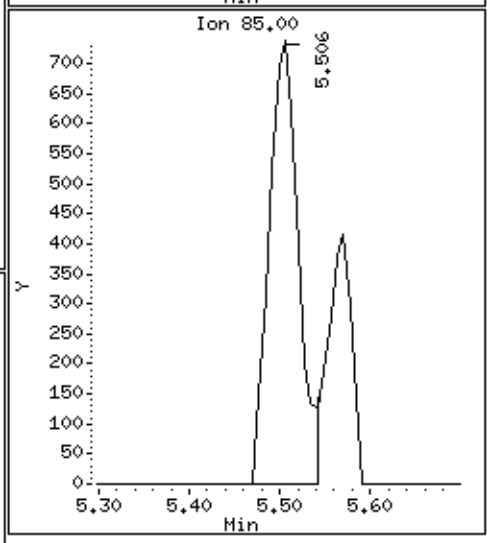
100 Chloroform

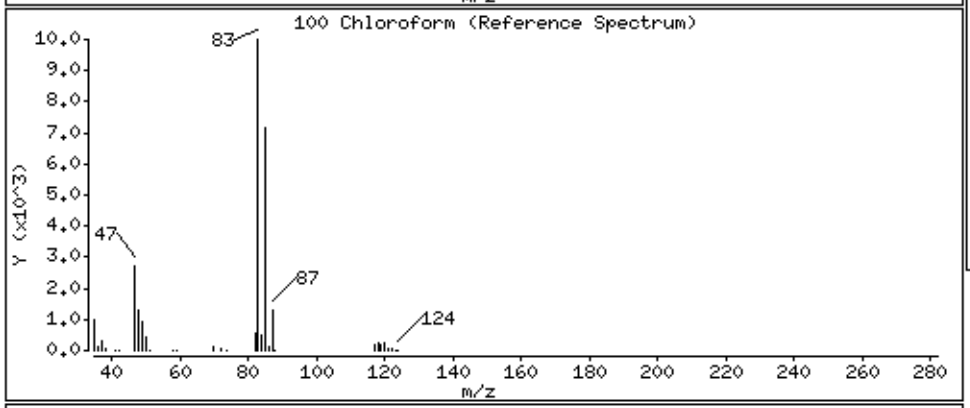
Concentration: 0.7960 PPBV

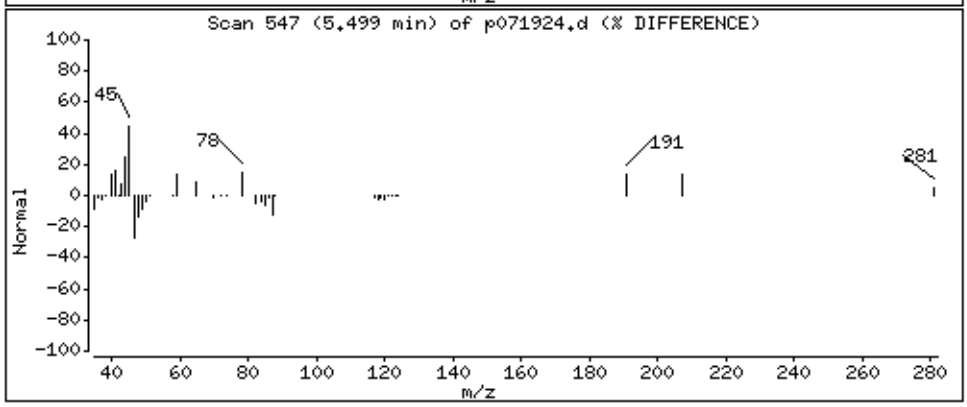












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

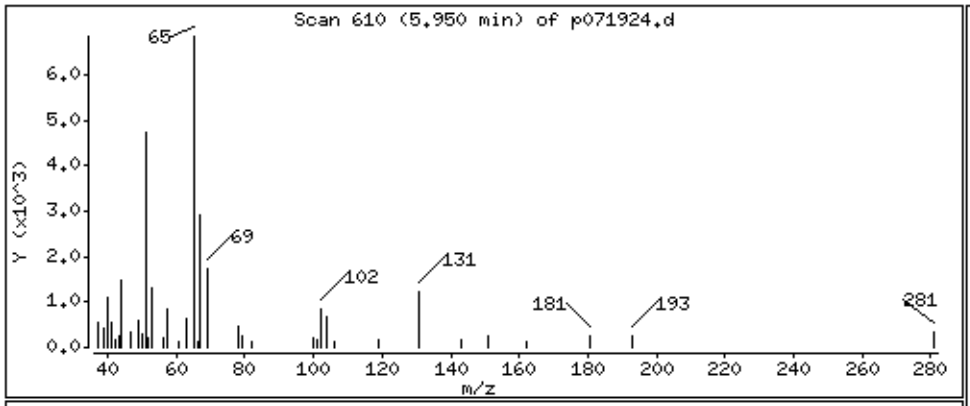
Operator: gh

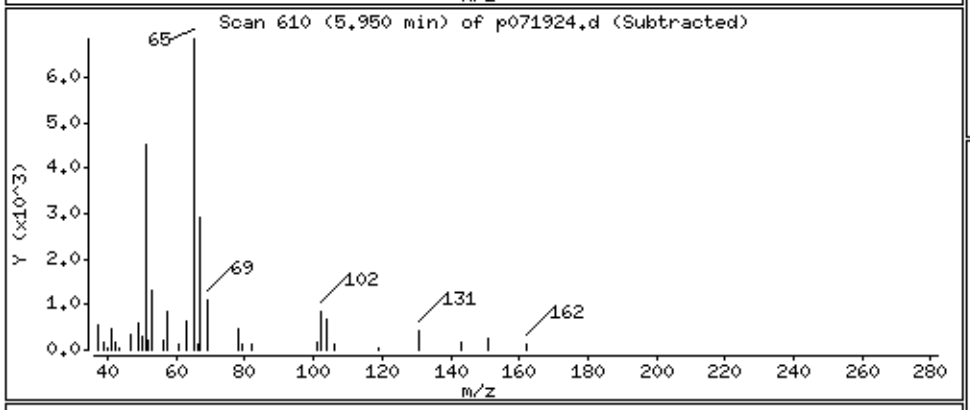
Column phase: RTX-624

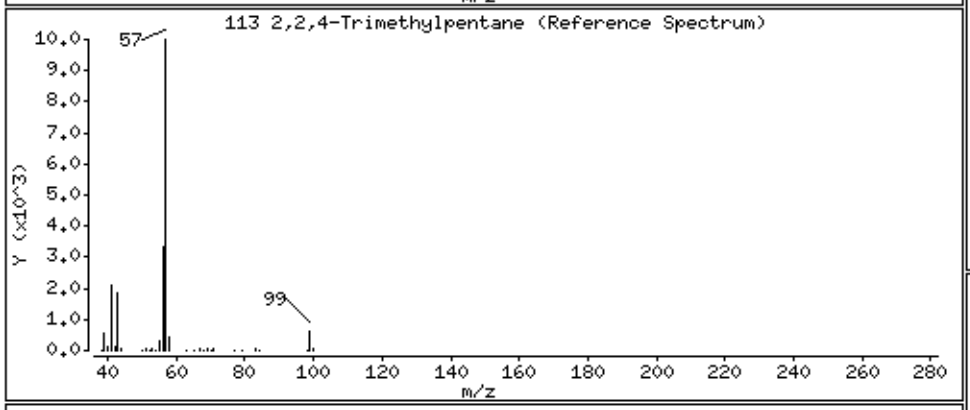
Column diameter: 0.25

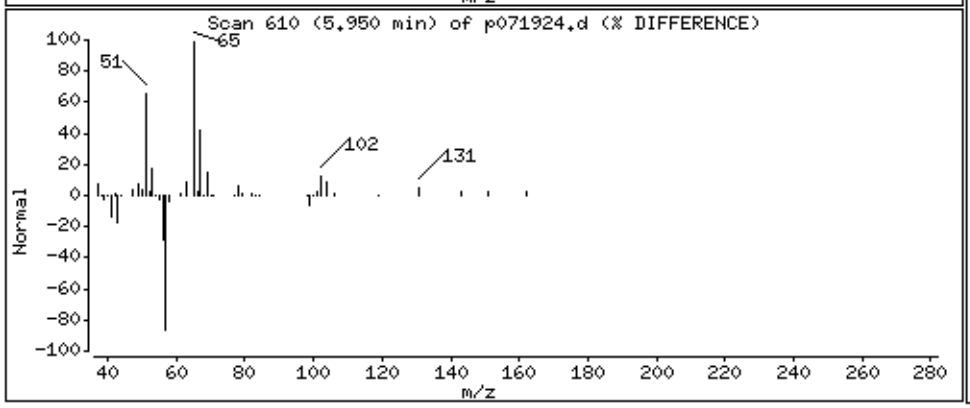
113 2,2,4-Trimethylpentane

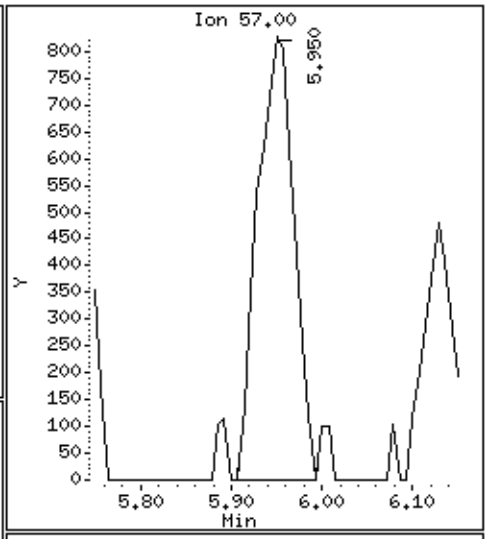
Concentration: 0.2201 PPBV

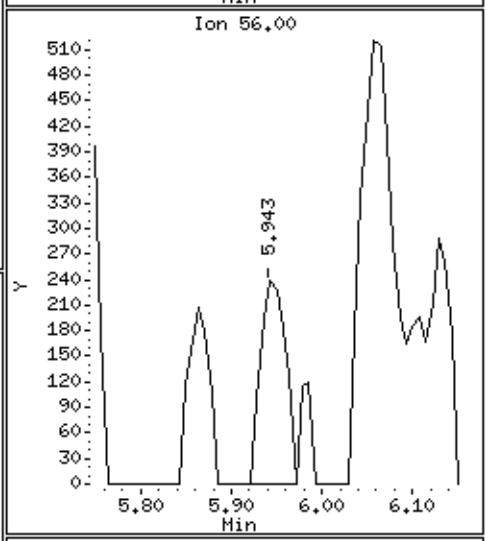


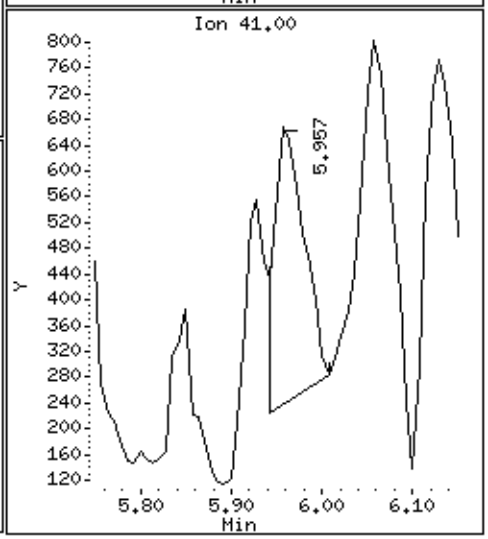












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

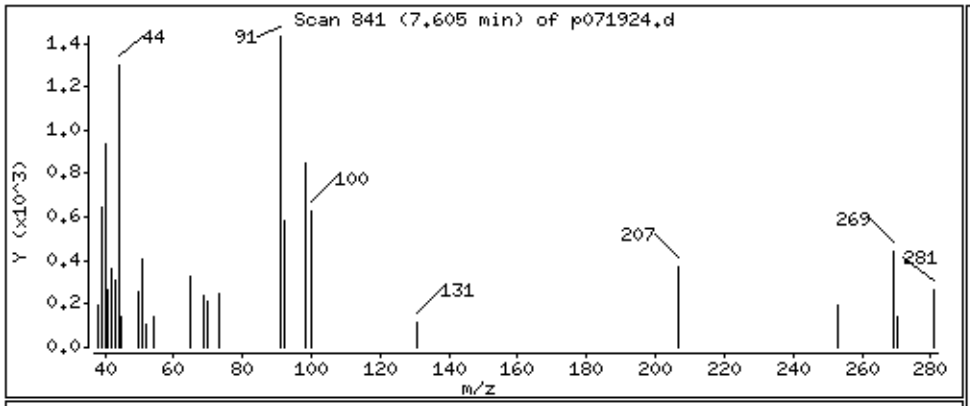
Operator: gh

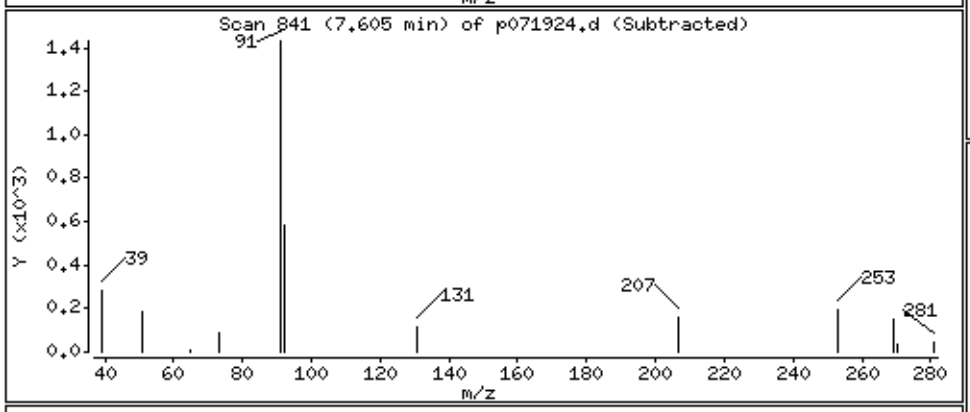
Column phase: RTX-624

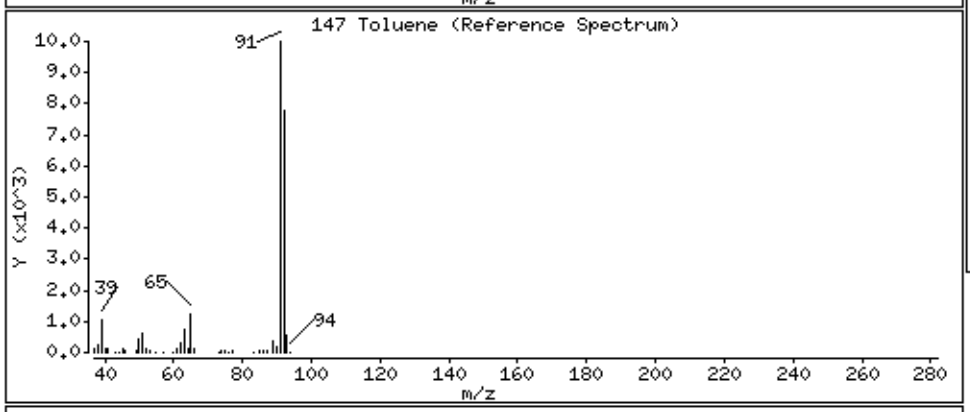
Column diameter: 0.25

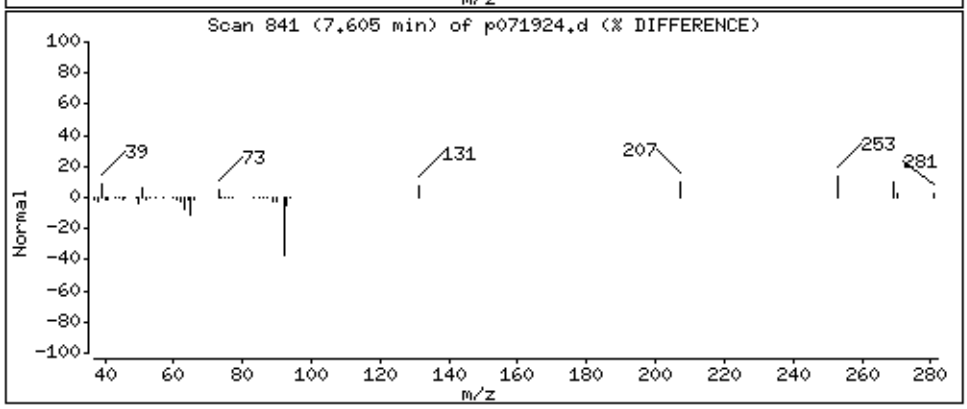
147 Toluene

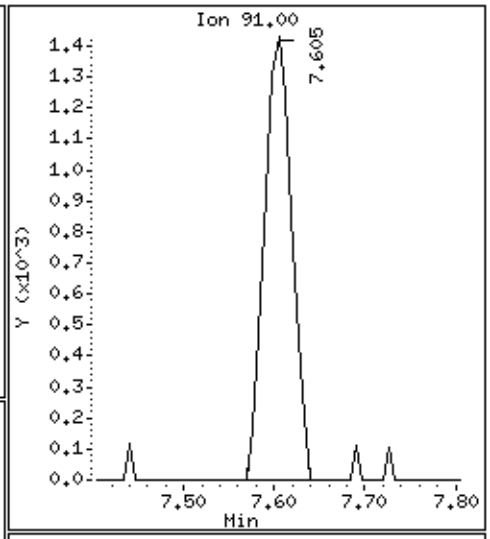
Concentration: 0.5250 PPBV

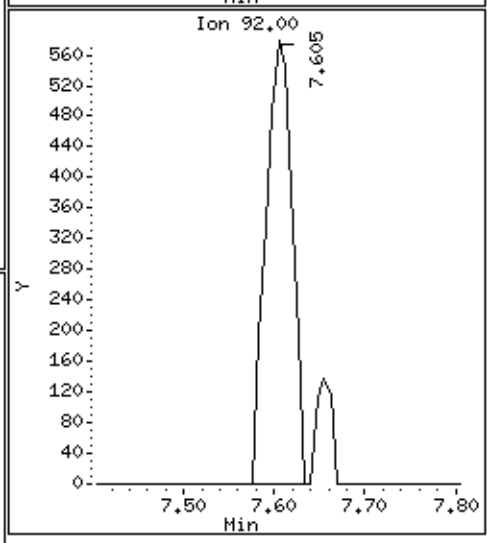












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

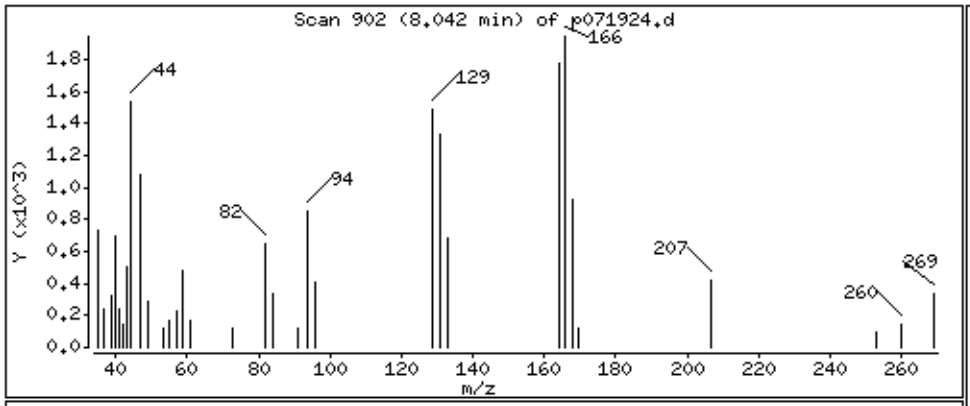
Operator: gh

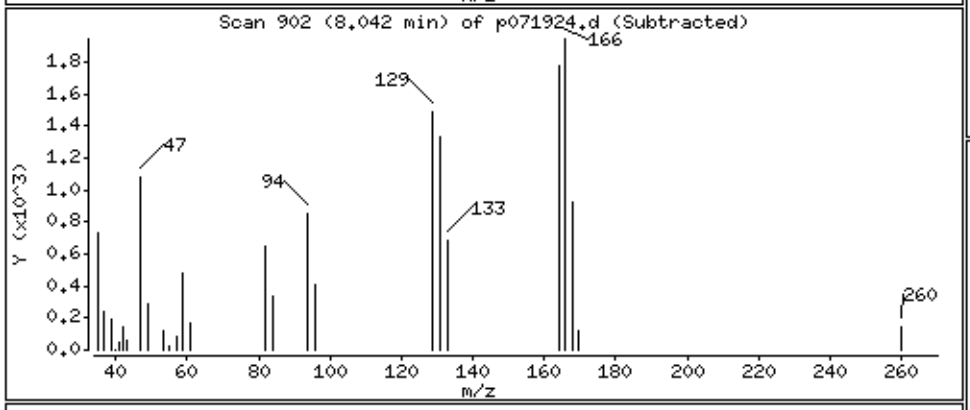
Column phase: RTX-624

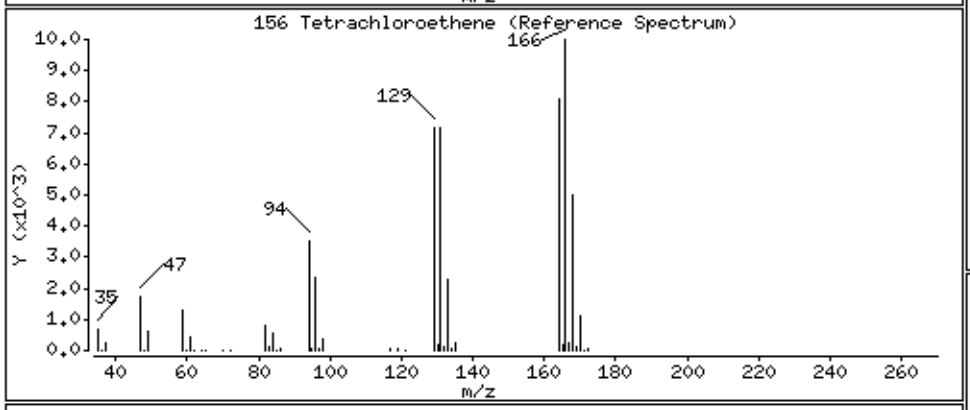
Column diameter: 0.25

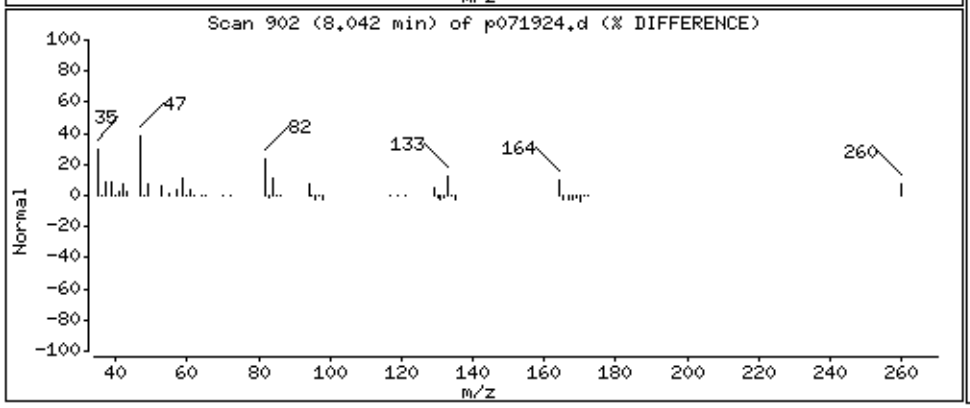
156 Tetrachloroethene

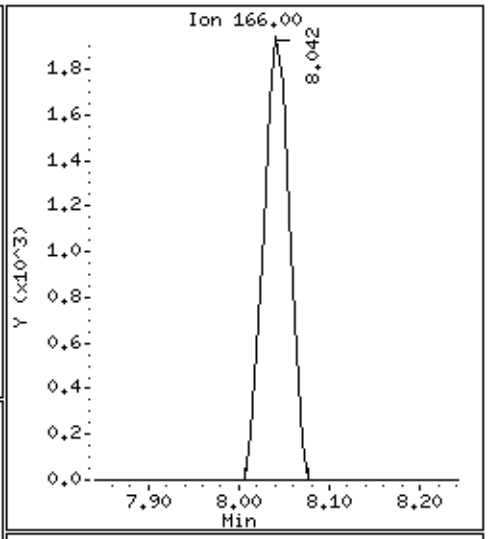
Concentration: 1.127 PPBV

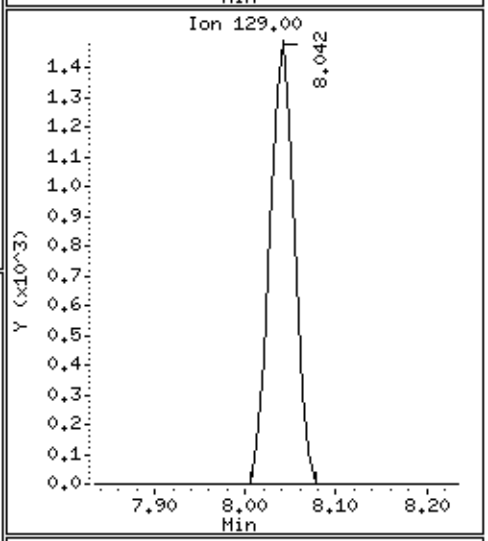


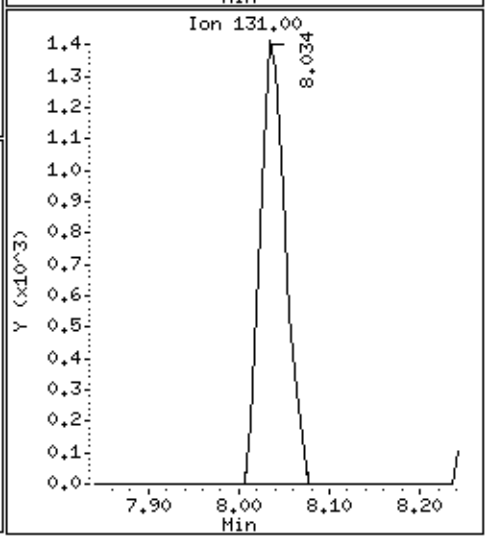












Data File: /chem/msdp.i/19jul16.b/p071924.d

Date : 20-JUL-2016 00:30

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36525

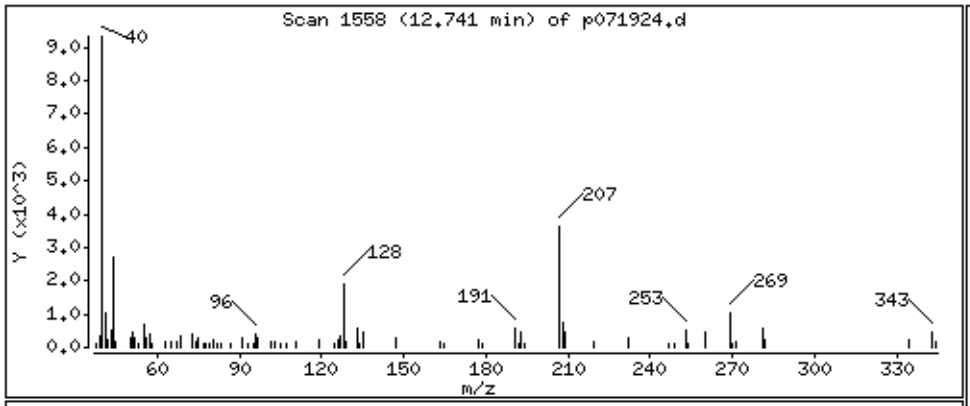
Operator: gh

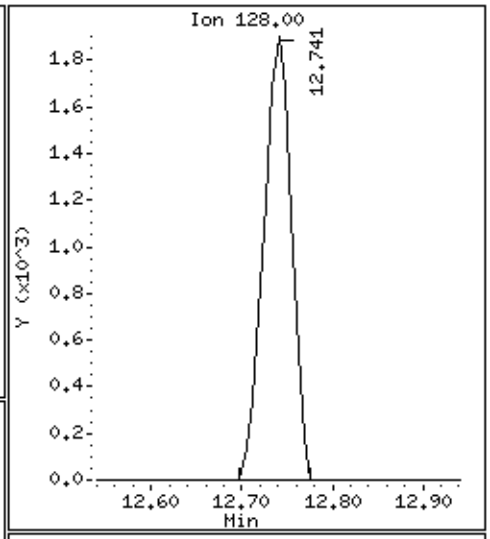
Column phase: RTX-624

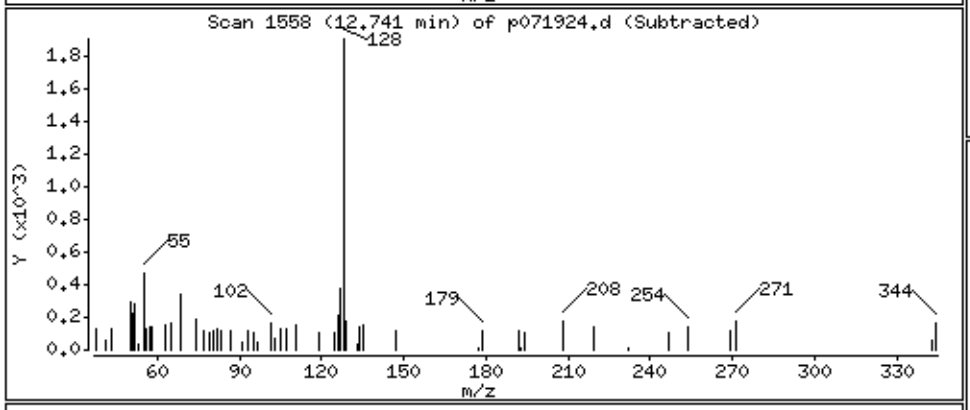
Column diameter: 0.25

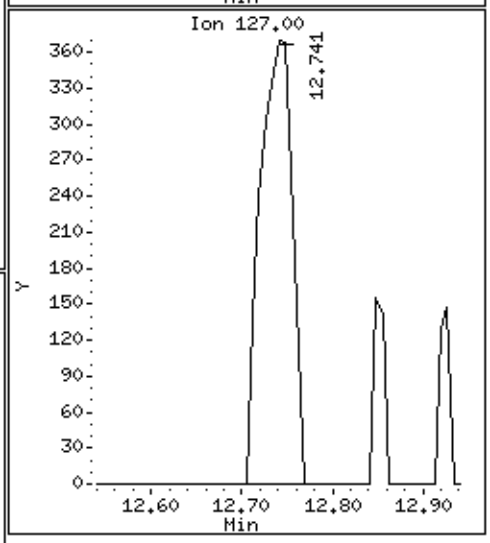
228 Naphthalene

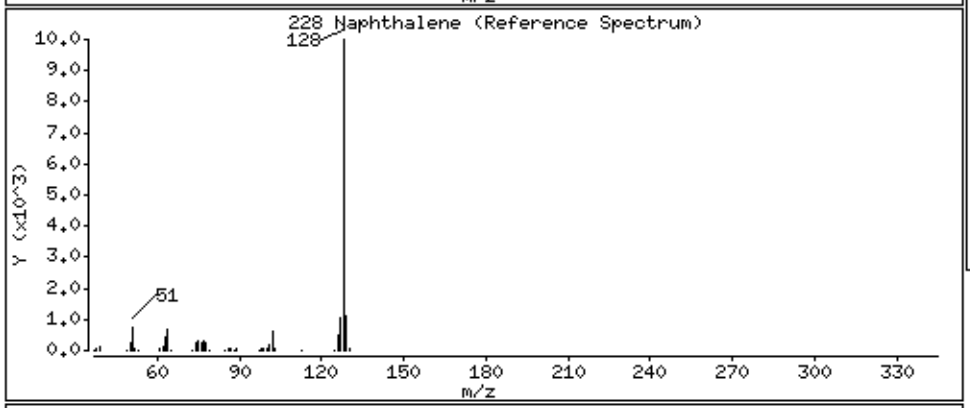
Concentration: 0.4031 PPBV

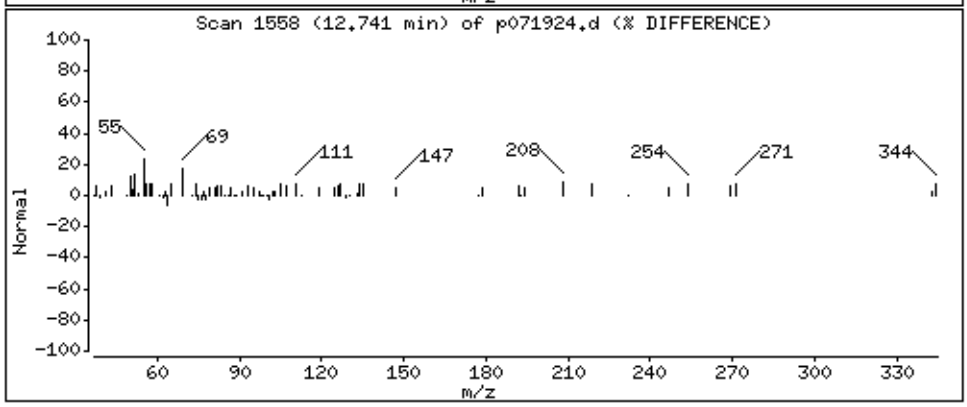












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B18SS-1D

Lab ID#: 1607235E-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	1.0 J	5.9	5.1 J
Freon 11	1.2	1.2 J	6.7	6.6 J
Ethanol	4.8	19	9.0	36
Acetone	12	22	28	53
2-Propanol	4.8	45	12	110
Methylene Chloride	12	1.6 J	41	5.7 J
2-Butanone (Methyl Ethyl Ketone)	4.8	3.9 J	14	12 J
Cyclohexane	1.2	0.27 J	4.1	0.93 J
2,2,4-Trimethylpentane	1.2	0.23 J	5.6	1.1 J
Benzene	1.2	0.26 J	3.8	0.82 J
Heptane	1.2	0.84 J	4.9	3.4 J
Toluene	1.2	6.3	4.5	24
m,p-Xylene	1.2	0.40 J	5.2	1.7 J
Styrene	1.2	0.26 J	5.1	1.1 J
Naphthalene	2.4	0.11 J	12	0.58 J

eurofins | Air Toxics

Client Sample ID: B18SS-1D

Lab ID#: 1607235E-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071925**	**Date of Collection:**	**7/11/16 5:59:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**7/20/16 12:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	1.0 J	5.9	5.1 J
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	1.2 J	6.7	6.6 J
Ethanol	4.8	19	9.0	36
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	22	28	53
2-Propanol	4.8	45	12	110
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	1.6 J	41	5.7 J
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	3.9 J	14	12 J
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	0.27 J	4.1	0.93 J
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	0.23 J	5.6	1.1 J
Benzene	1.2	0.26 J	3.8	0.82 J
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	0.84 J	4.9	3.4 J
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	6.3	4.5	24
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected

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Client Sample ID: B18SS-1D

Lab ID#: 1607235E-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071925**	**Date of Collection:**	**7/11/16 5:59:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**7/20/16 12:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	0.40 J	5.2	1.7 J
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	0.26 J	5.1	1.1 J
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Naphthalene	2.4	0.11 J	12	0.58 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	92	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071925.d
Lab Smp Id: 1607235E-13A
Inj Date : 20-JUL-2016 00:57
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 30832
Misc Info : 4.5 Hg->15.1 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 22-Jul-2016 13:56 snguyen Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 9
Dil Factor: 2.38000
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.441 (1.000)	130	82768	25.0000		80.00- 120.00	100.00
5.449	5.441 (1.000)	128	67212			49.40- 109.40	81.21
5.449	5.434 (1.000)	49	195627			153.31- 213.31	236.36
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.330 (1.000)	114	317654	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	42753			0.00- 43.38	13.46
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	298637	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	156580			21.26- 81.26	52.43
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.097)	65	133363	26.2335	26.233	80.00- 120.00	100.00
5.979	5.971 (1.097)	67	61880			25.58- 85.58	46.40
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.191)	98	333168	25.9858	25.986	80.00- 120.00	100.00
7.547	7.547 (1.191)	70	37525			0.00- 40.37	11.26

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.191)   100    220345                    38.69-  98.69    66.14
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.761   9.754 (1.113)   174    223568 22.8940   22.894  80.00- 120.00   100.00
  9.761   9.754 (1.113)    95    211061                   59.95- 119.95    94.41
  9.761   9.754 (1.113)   176    206588                   67.47- 127.47    92.41
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.493   1.507 (0.274)    85      4164 0.43724    1.041  80.00- 120.00   100.00(a)
  1.507   1.507 (0.276)    87      1316                    2.43-  62.43    31.61
-------------------------------------------------------------------------------
   35 Freon 11                                      CAS #: 75-69-4
  2.569   2.562 (0.471)   101      4959 0.49658    1.182  80.00- 120.00   100.00(a)
  2.569   2.562 (0.471)   103      3021                   35.01-  95.01    60.92
-------------------------------------------------------------------------------
   42 Ethanol                                       CAS #: 64-17-5
  2.891   2.870 (0.531)    45     15310 7.96111   18.947  80.00- 120.00   100.00
  2.884   2.870 (0.529)    43      3530                    0.00-  51.15    23.06
  2.891   2.870 (0.531)    46      5060                    7.97-  67.97    33.05
-------------------------------------------------------------------------------
   52 Acetone                                       CAS #: 67-64-1
  3.386   3.371 (0.621)    58     20912 9.39084   22.350  80.00- 120.00   100.00
  3.386   3.371 (0.621)    43     89042                  353.98- 413.98   425.78
-------------------------------------------------------------------------------
   57 2-Propanol                                    CAS #: 67-63-0
  3.550   3.536 (0.652)    45    183659 19.0069   45.236  80.00- 120.00   100.00
  3.550   3.543 (0.652)    43     43688                    0.00-  50.28    23.79
  3.550   3.543 (0.652)    59      5609                    0.00-  33.15     3.05
-------------------------------------------------------------------------------
   66 Methylene Chloride                            CAS #: 75-09-2
  3.901   3.894 (0.716)    49      4403 0.68951    1.641  80.00- 120.00   100.00(a)
  3.894   3.894 (0.715)    84      1569                   14.95-  74.95    35.65
  3.887   3.894 (0.713)    51      1458                    0.42-  60.42    33.12
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.234   5.234 (0.961)    72      2763 1.65468    3.938  80.00- 120.00   100.00(a)
  5.241   5.234 (0.962)    43     27243                  611.89- 671.89   985.78
  5.234   5.234 (0.961)    57      1253                   17.72-  77.72    45.36
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.613   5.613 (1.030)    84       525 0.11343   0.2700  80.00- 120.00   100.00(a)
  5.620   5.613 (1.032)    56      2421                  138.21- 198.21   460.81
  5.628   5.613 (1.033)    41      2914                   72.24- 132.24   554.65
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.950   5.950 (1.092)    57      2434 0.09763   0.2324  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
113 2,2,4-Trimethylpentane (continued)							
5.957	5.950 (1.093)	56	1114			2.51- 62.51	45.80
5.936	5.950 (1.089)	41	3901			0.00- 58.92	160.29
116 Benzene					CAS #: 71-43-2		
5.957	5.964 (0.940)	78	1054	0.10765	0.2562	80.00- 120.00	100.00(a)
5.964	5.964 (0.941)	77	186			0.00- 54.04	17.69
121 Heptane					CAS #: 142-82-5		
6.129	6.122 (0.967)	71	1291	0.35288	0.8398	80.00- 120.00	100.00(a)
6.129	6.122 (0.967)	43	3052			231.64- 291.64	236.38
6.129	6.122 (0.967)	57	1156			103.28- 163.28	89.52
147 Toluene					CAS #: 108-88-3		
7.605	7.605 (1.200)	91	35658	2.64625	6.298	80.00- 120.00	100.00
7.605	7.605 (1.200)	92	18165			28.28- 88.28	50.94
169 m,p-Xylene					CAS #: 108-38-3		
8.951	8.951 (1.020)	106	1238	0.16647	0.3962	80.00- 120.00	100.00(a)
8.951	8.951 (1.020)	91	3538			167.63- 227.63	285.67
172 Styrene					CAS #: 100-42-5		
9.309	9.309 (1.061)	104	1216	0.10931	0.2602	80.00- 120.00	100.00(a)
9.309	9.302 (1.061)	78	675			15.94- 75.94	55.54
228 Naphthalene					CAS #: 91-20-3		
12.783	12.741 (1.457)	128	1111	0.04650	0.1106	80.00- 120.00	100.00(a)
12.798	12.741 (1.459)	127	116			0.00- 43.45	10.47

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: msdp.i
Lab File ID: p071925.d
Lab Smp Id: 1607235E-13A
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.5 Hg->15.1 psi

Calibration Date: 19-JUL-2016
Calibration Time: 11:28

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	82768	-13.12
123 1,4-Difluorobenze	379135	227481	530789	317654	-16.22
163 Chlorobenzene-d5	348612	209167	488057	298637	-14.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	0.00

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

Report Date: 27-Jul-2016 16:08

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 19jul16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1607235E-13A
Level: LOW
Operator: gh
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 4.5 Hg->15.1 psi

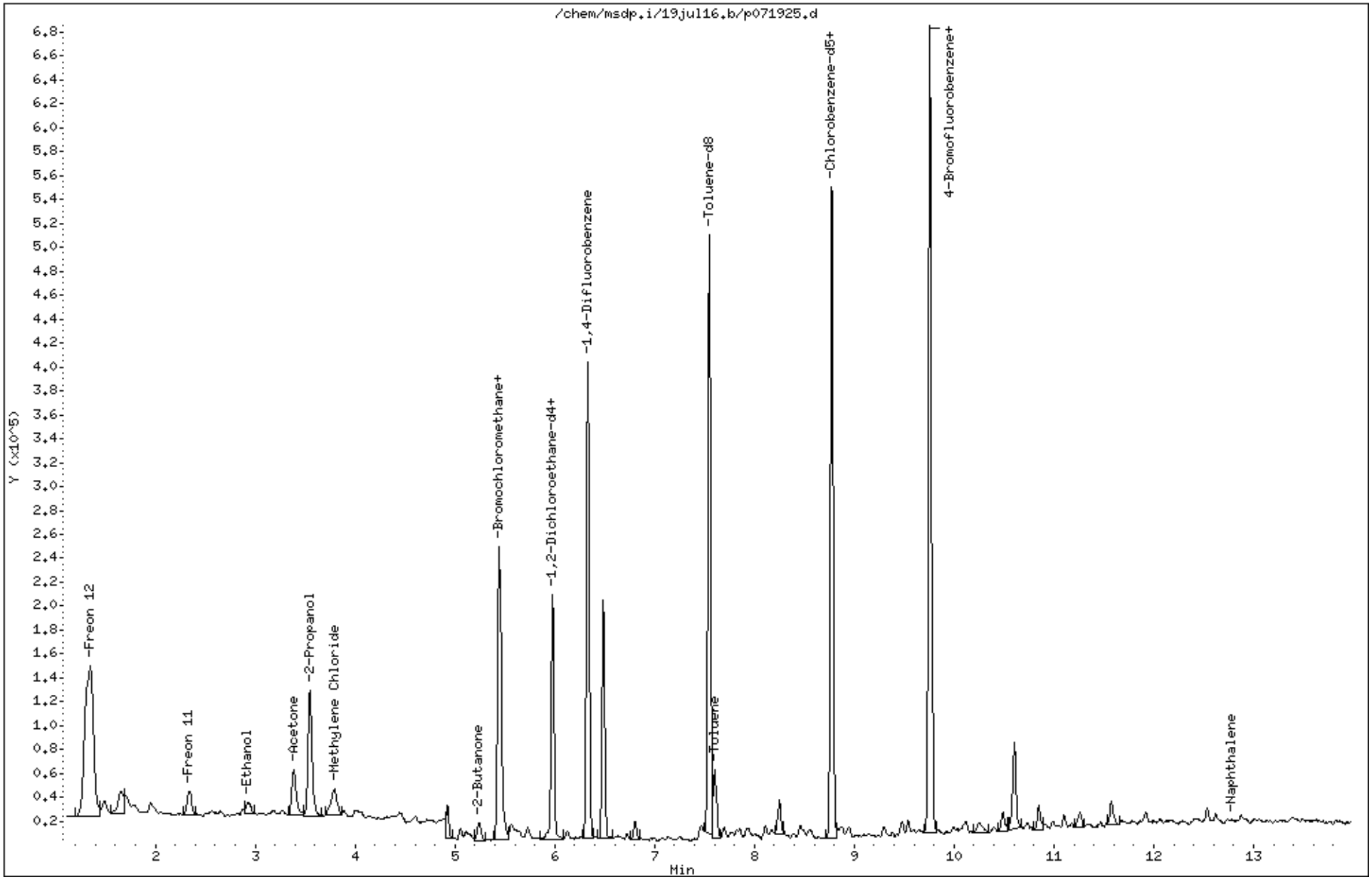
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	26.233	104.93	70-130
$ 146 Toluene-d8	25.000	25.986	103.94	70-130
$ 177 4-Bromofluorobenze	25.000	22.894	91.58	70-130

Data File: /chem/msdp.i/19jul16.b/p071925.d
Date : 20-JUL-2016 00:57
Client ID:
Sample Info: 200ml 30832

Column phase: RTX-624

Instrument: msdp.i

Operator: gh
Column diameter: 0.25



Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

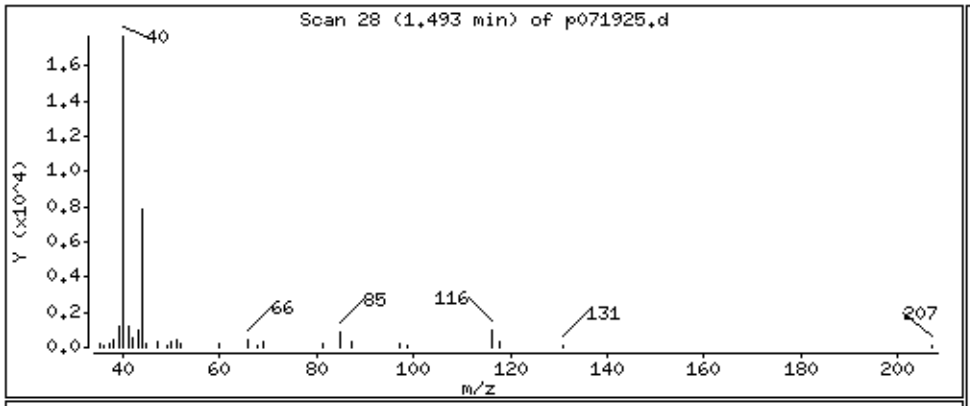
Operator: gh

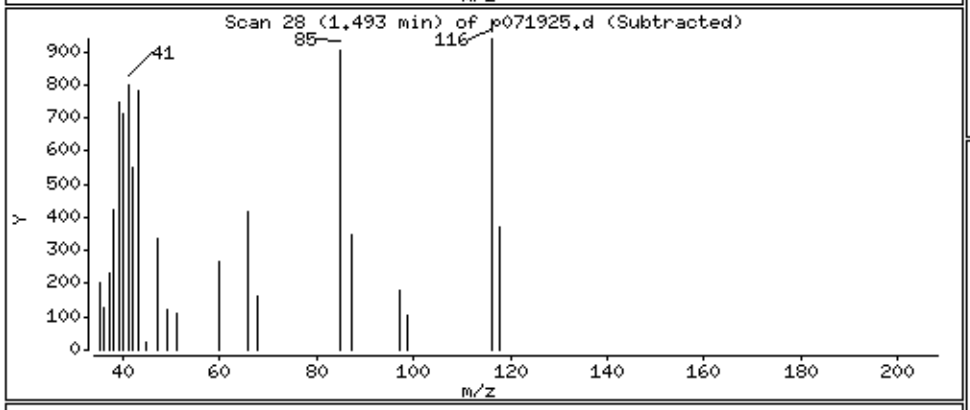
Column phase: RTX-624

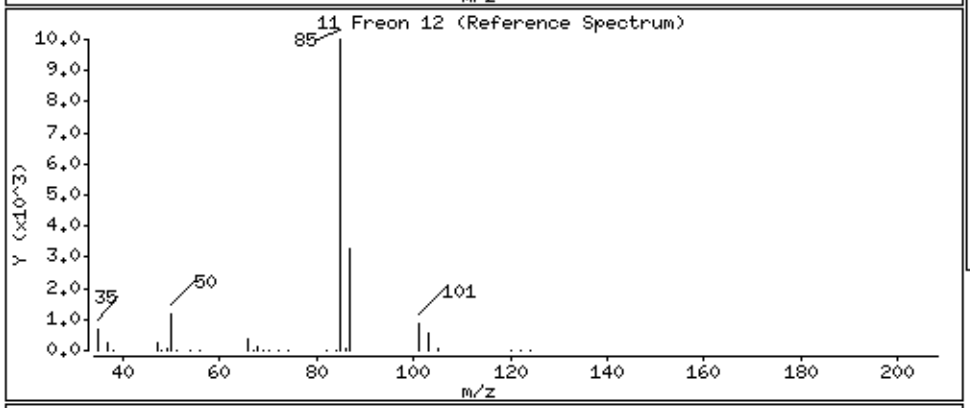
Column diameter: 0.25

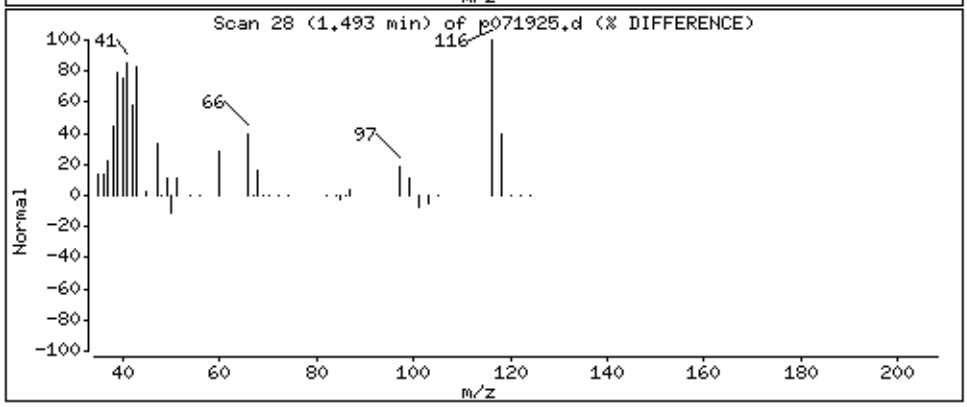
11 Freon 12

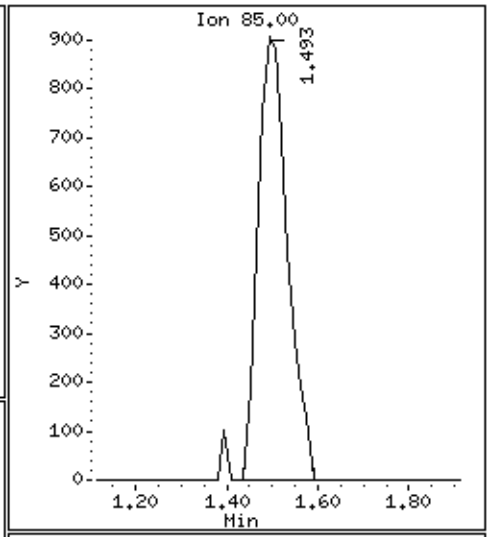
Concentration: 1.041 PPBV

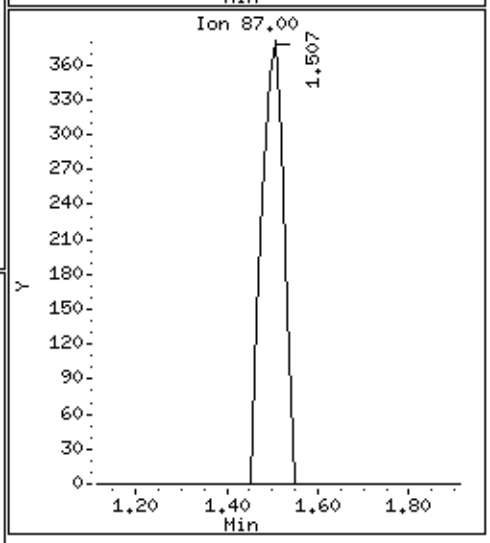












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

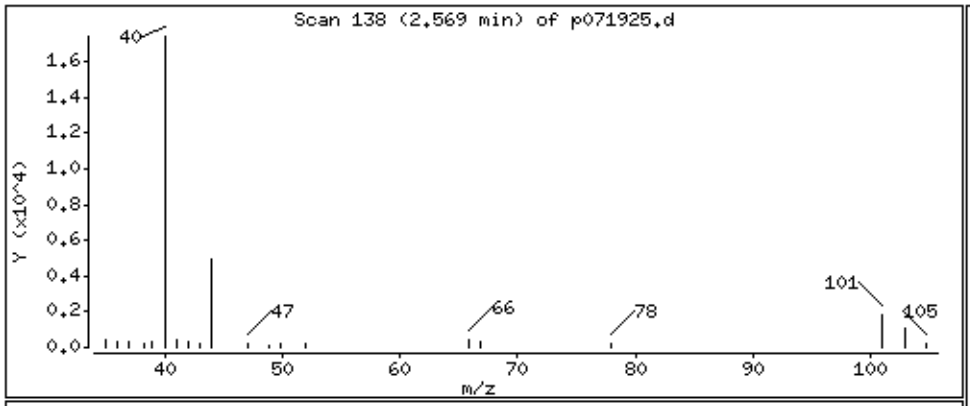
Operator: gh

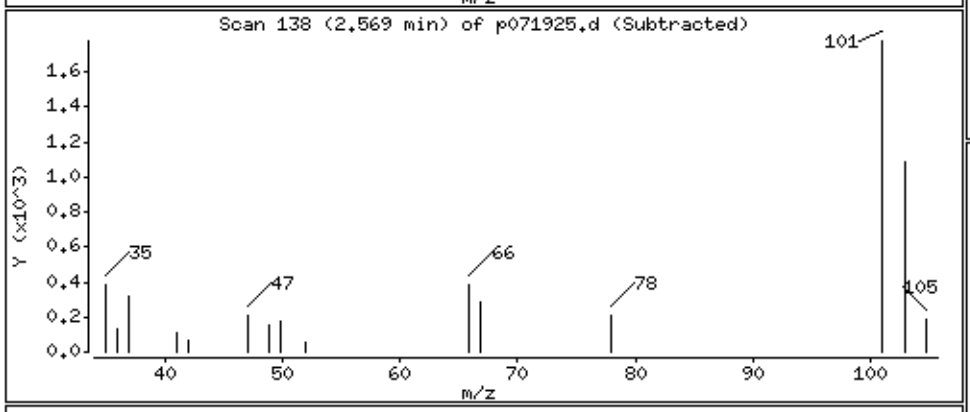
Column phase: RTX-624

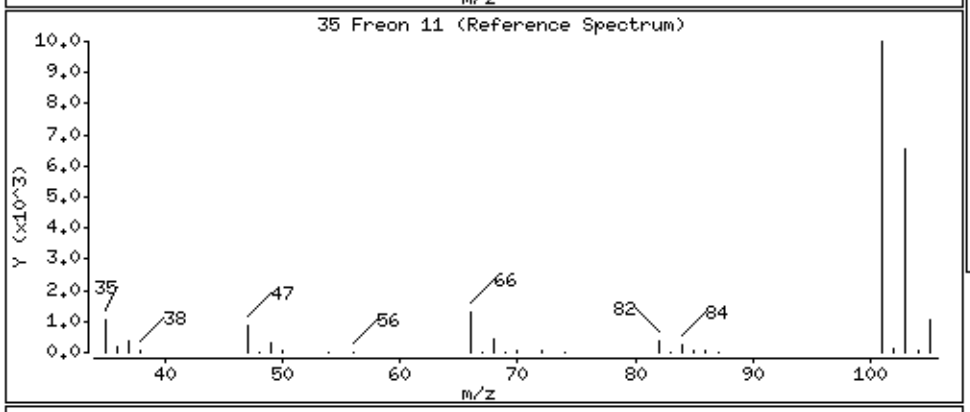
Column diameter: 0.25

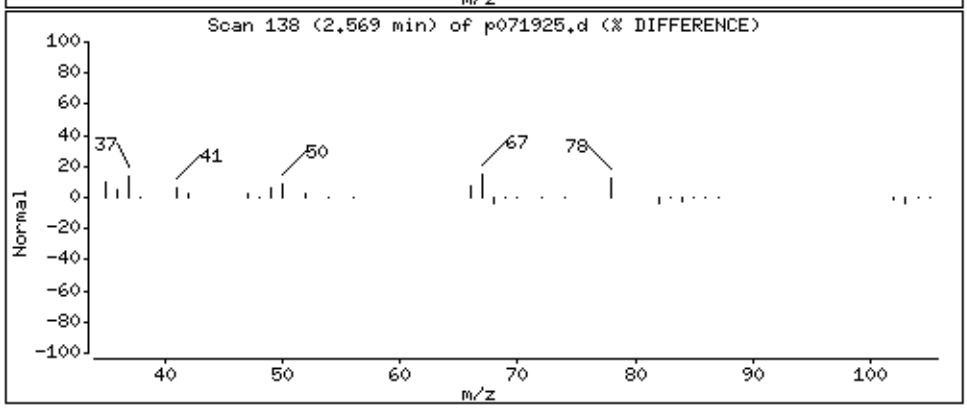
35 Freon 11

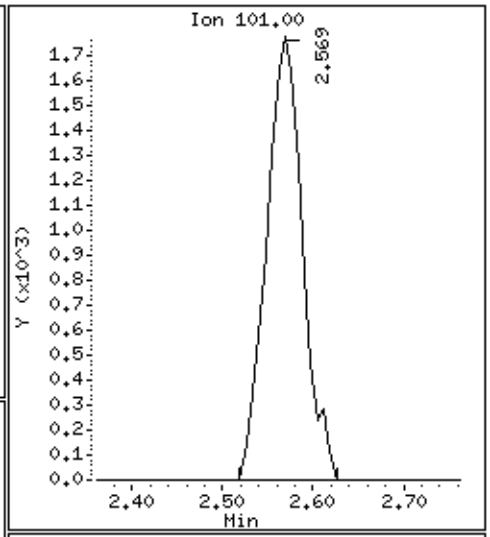
Concentration: 1.182 PPBV

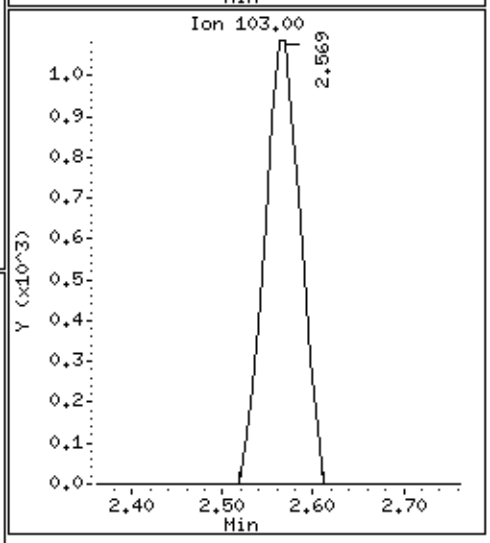












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

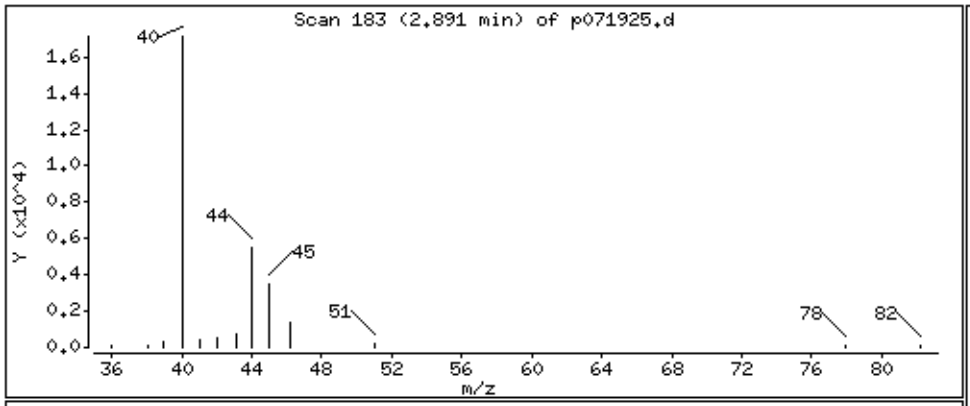
Operator: gh

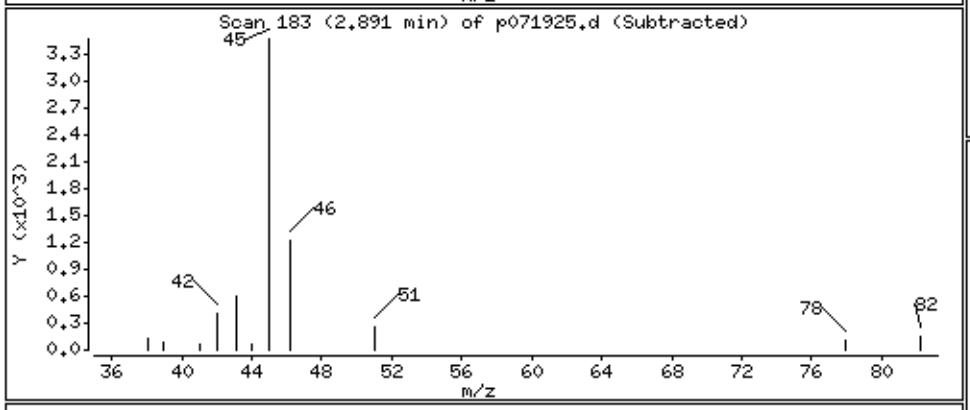
Column phase: RTX-624

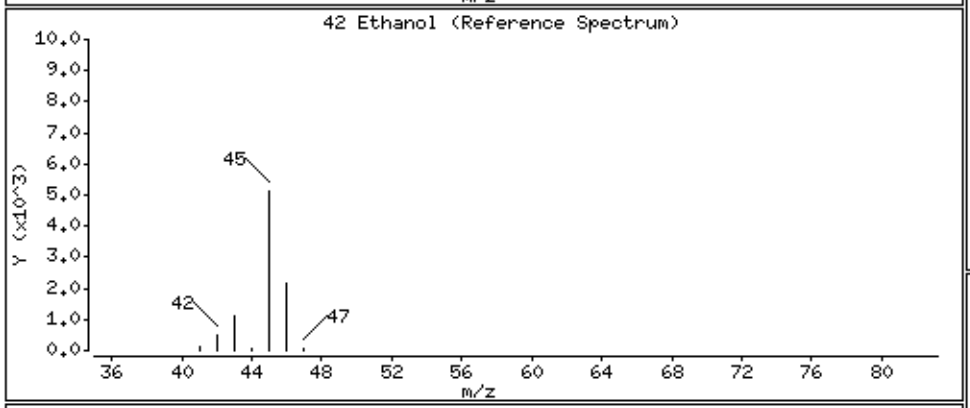
Column diameter: 0.25

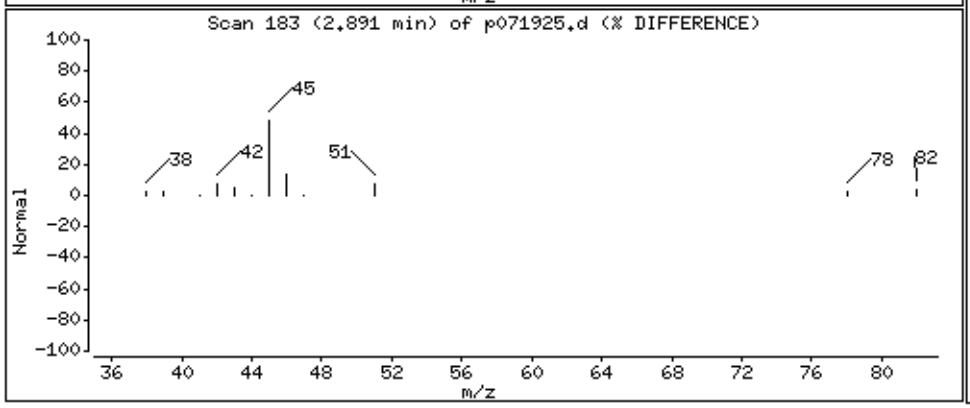
42 Ethanol

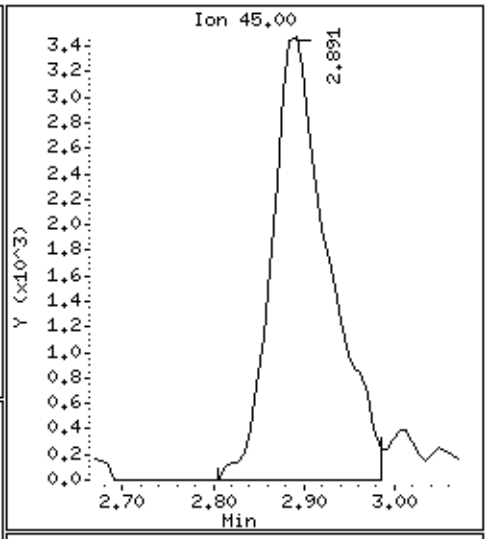
Concentration: 18.947 PPBV

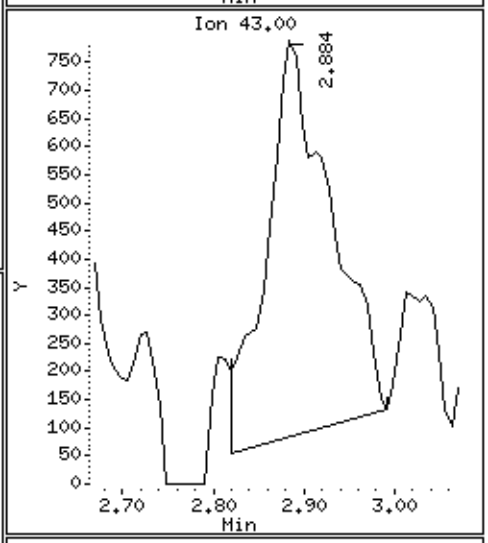


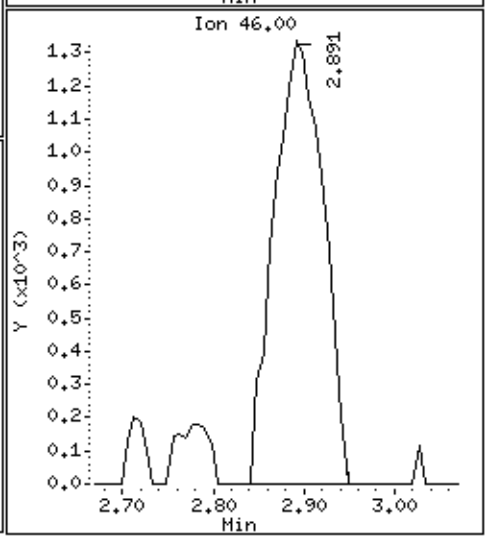












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

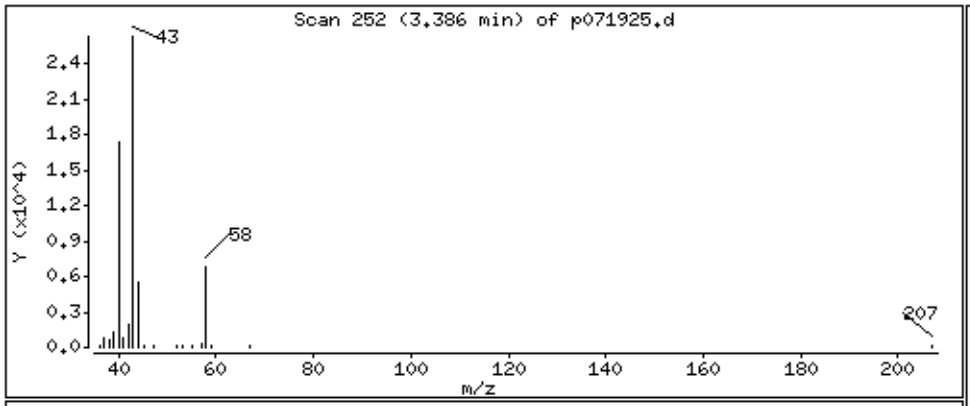
Operator: gh

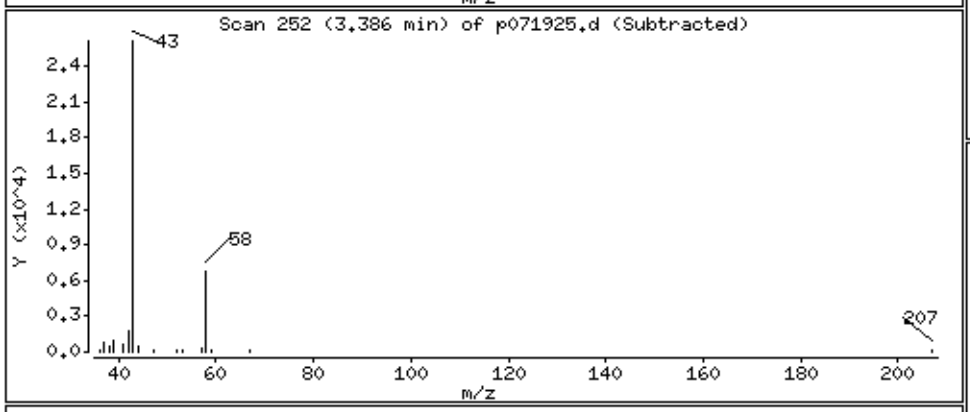
Column phase: RTX-624

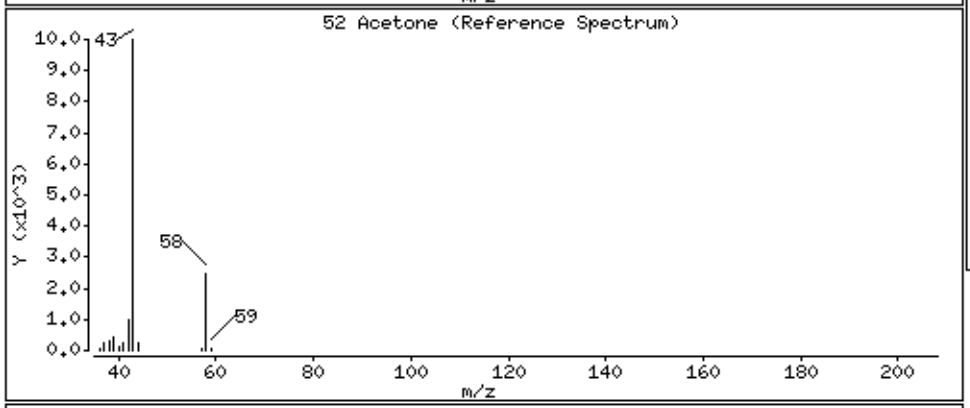
Column diameter: 0.25

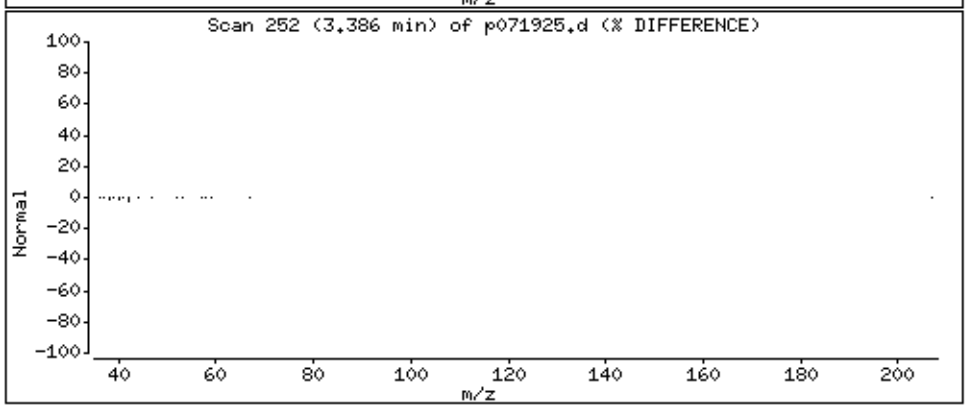
52 Acetone

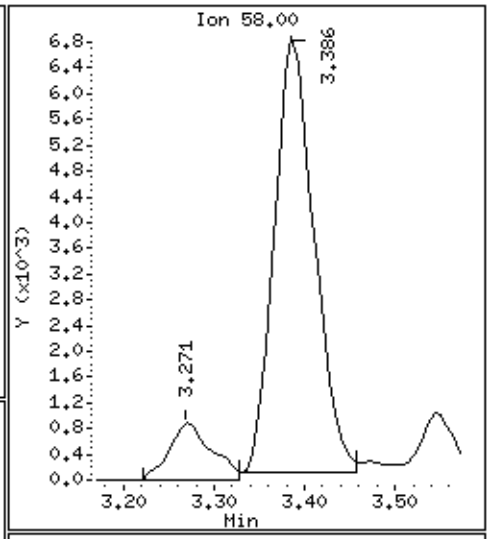
Concentration: 22.350 PPBV

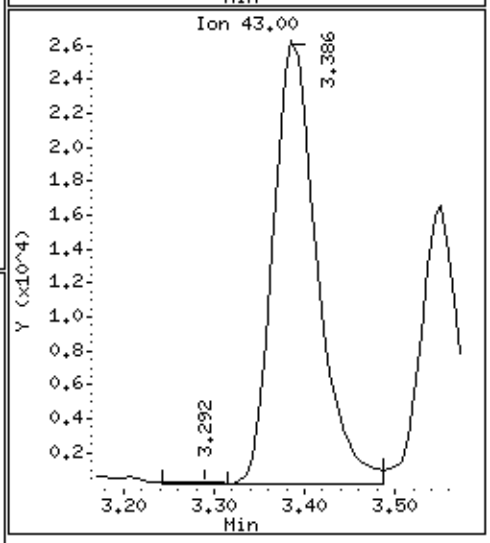












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

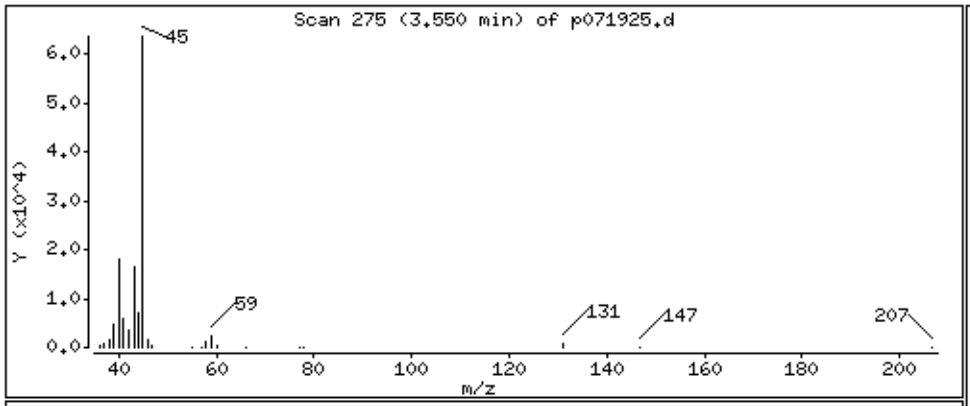
Operator: gh

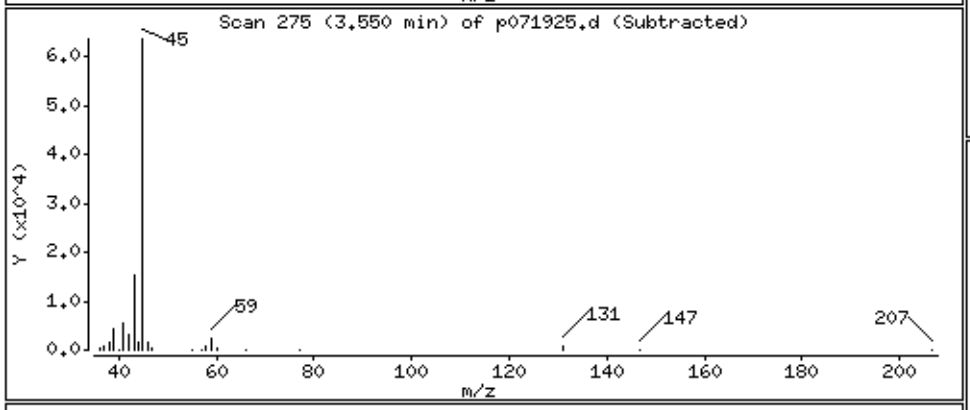
Column phase: RTX-624

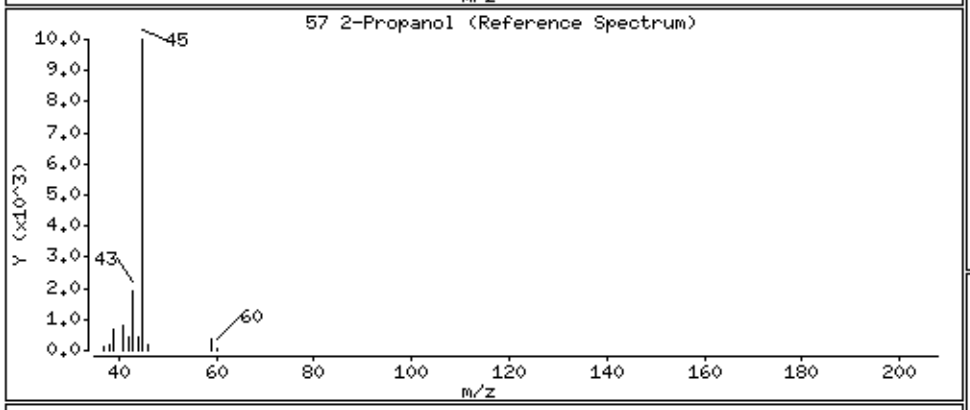
Column diameter: 0.25

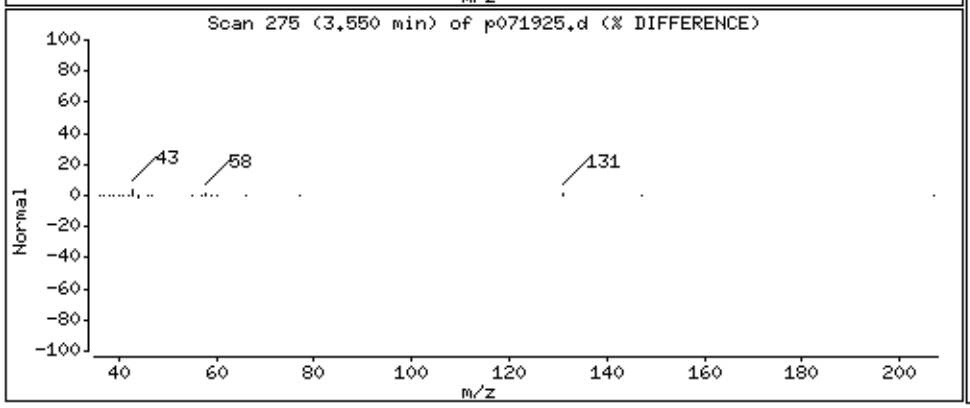
57 2-Propanol

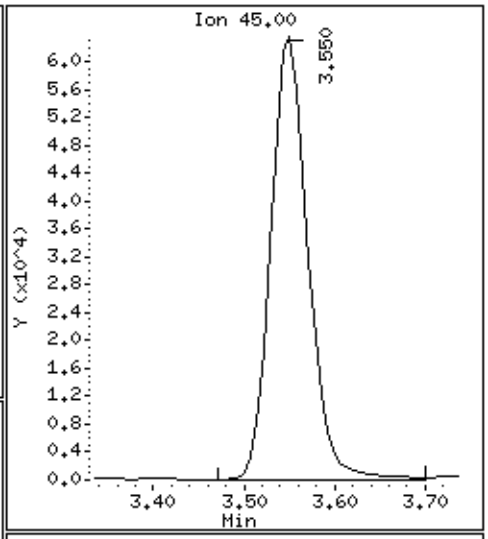
Concentration: 45.236 PPBV

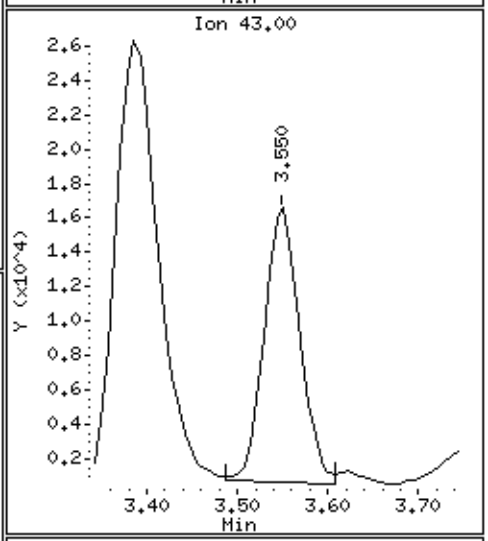


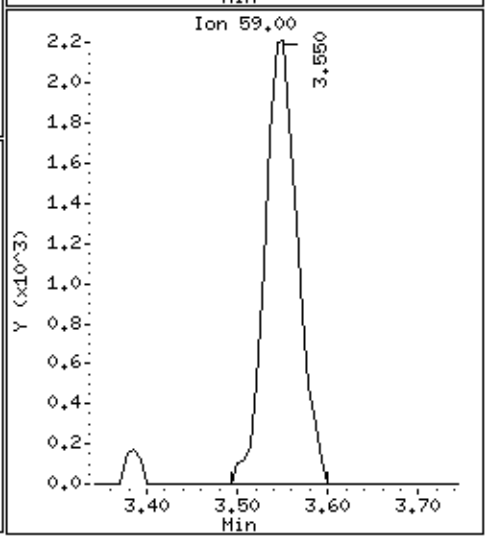












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

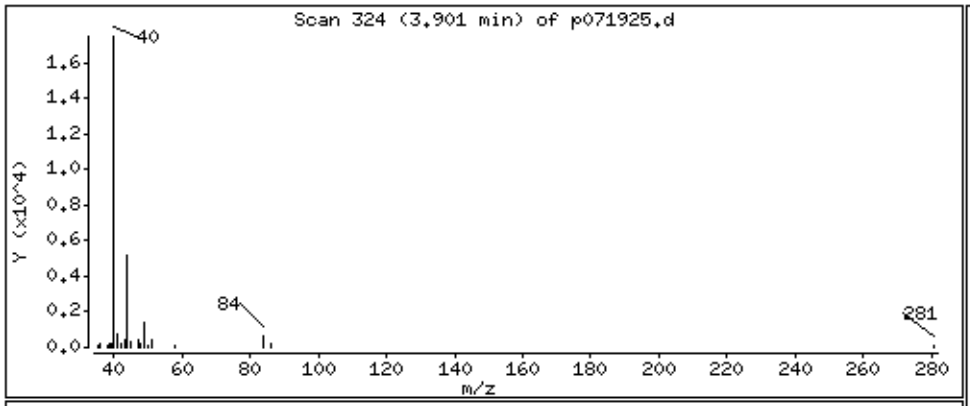
Operator: gh

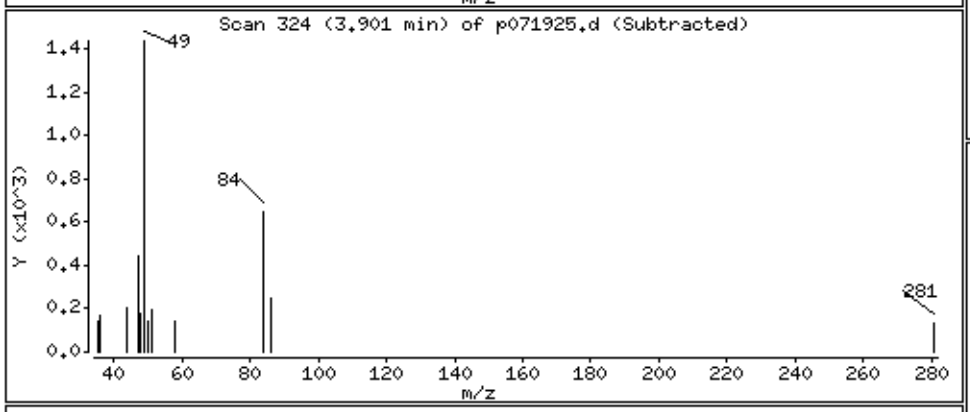
Column phase: RTX-624

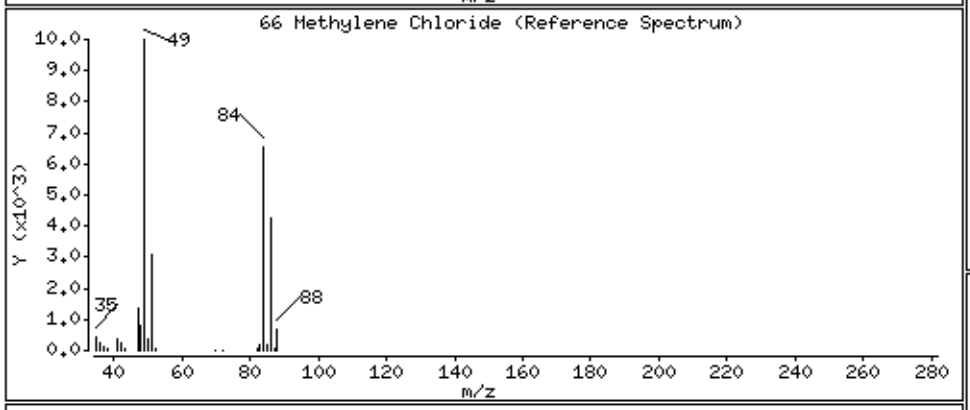
Column diameter: 0.25

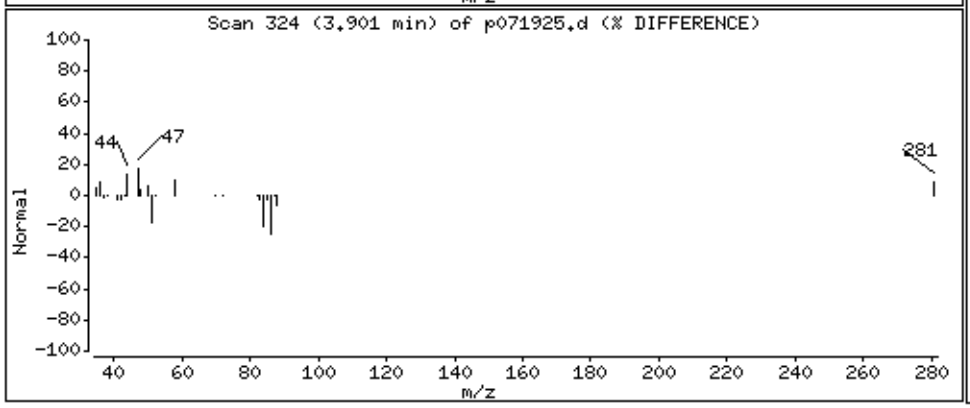
66 Methylene Chloride

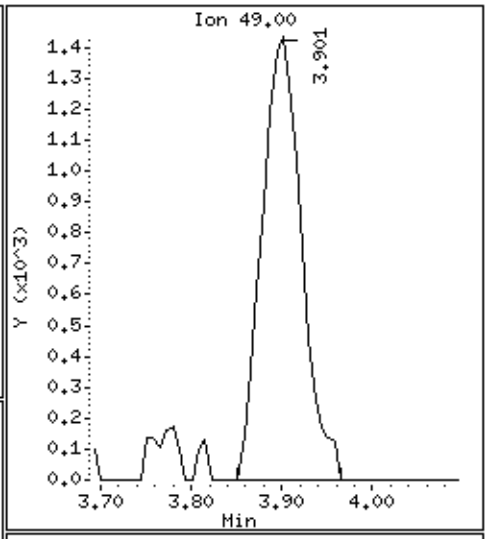
Concentration: 1.641 PPBV

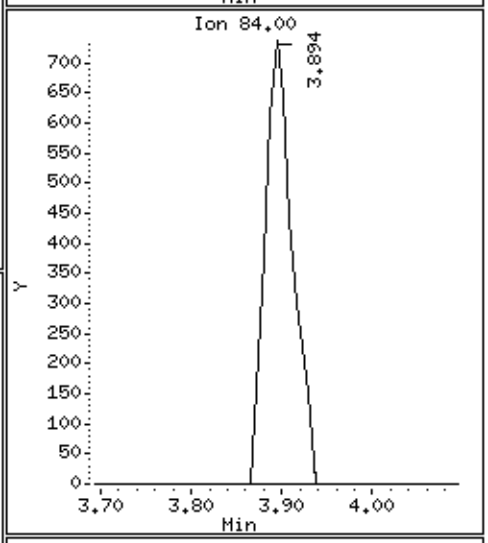


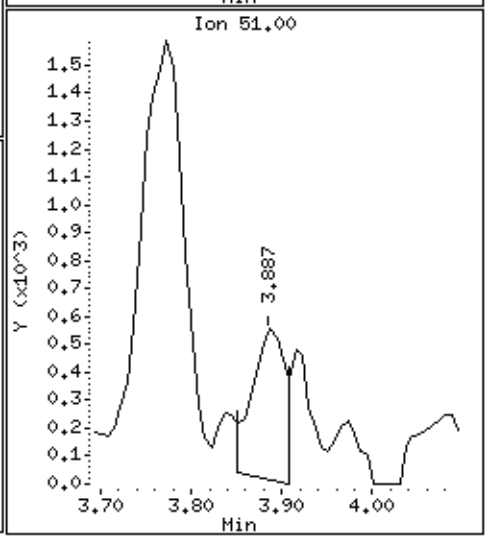












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

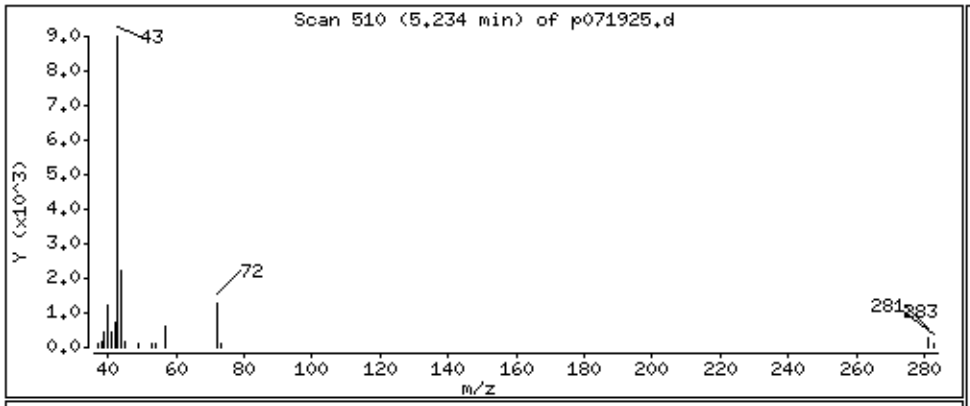
Operator: gh

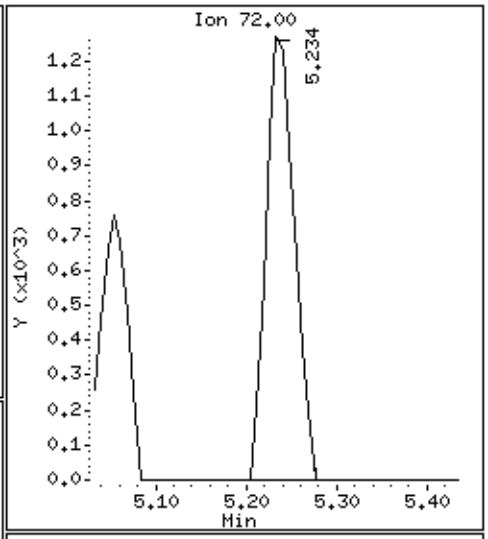
Column phase: RTX-624

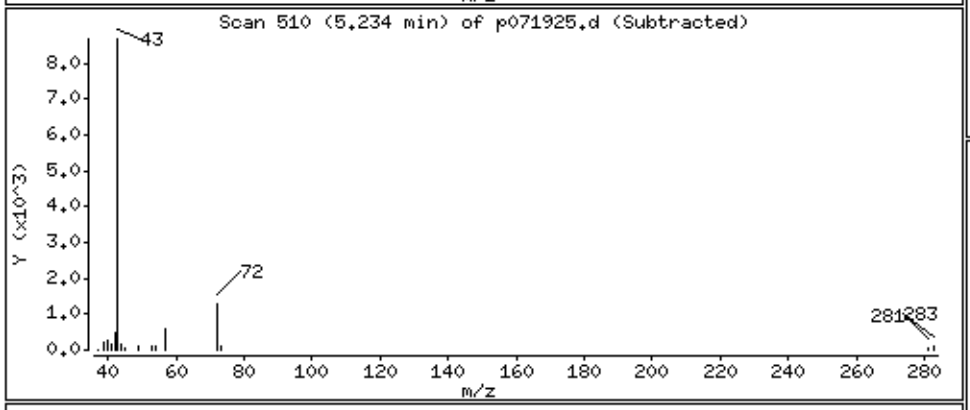
Column diameter: 0.25

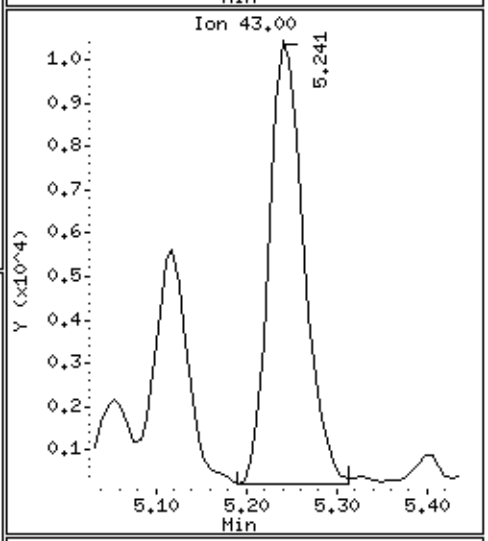
92 2-Butanone

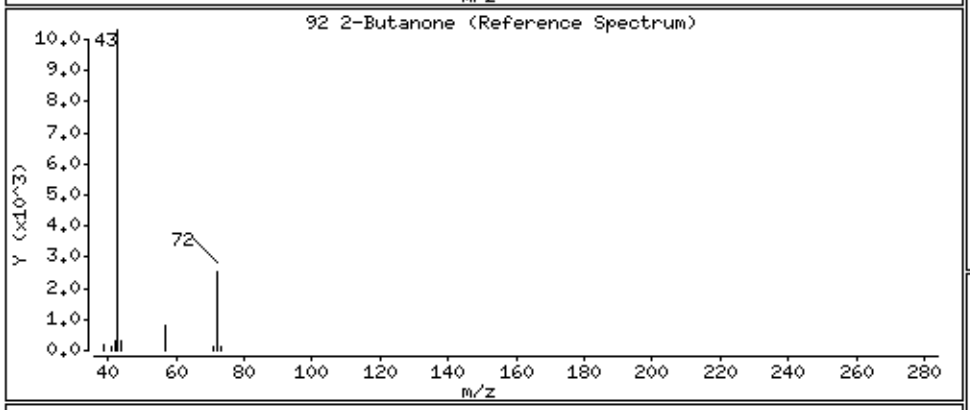
Concentration: 3.938 PPBV

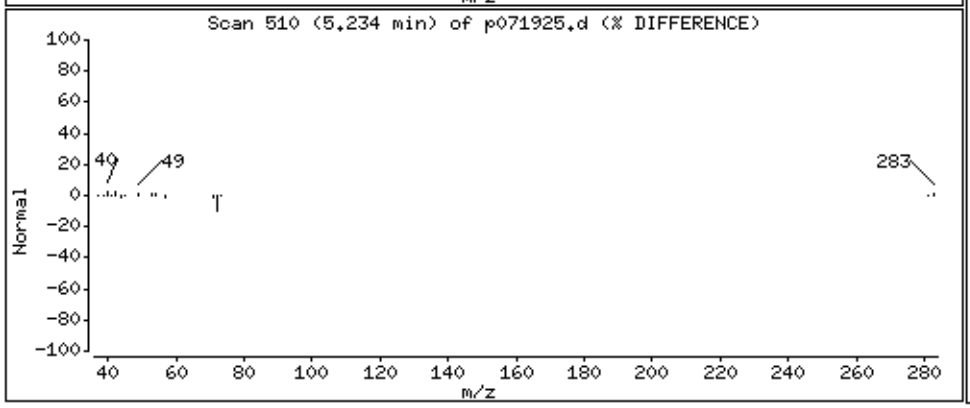


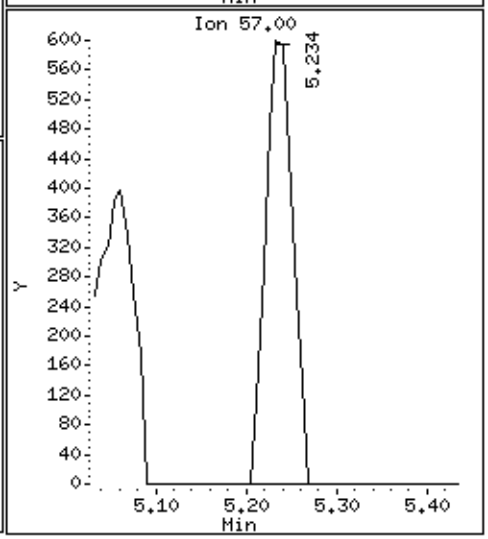












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

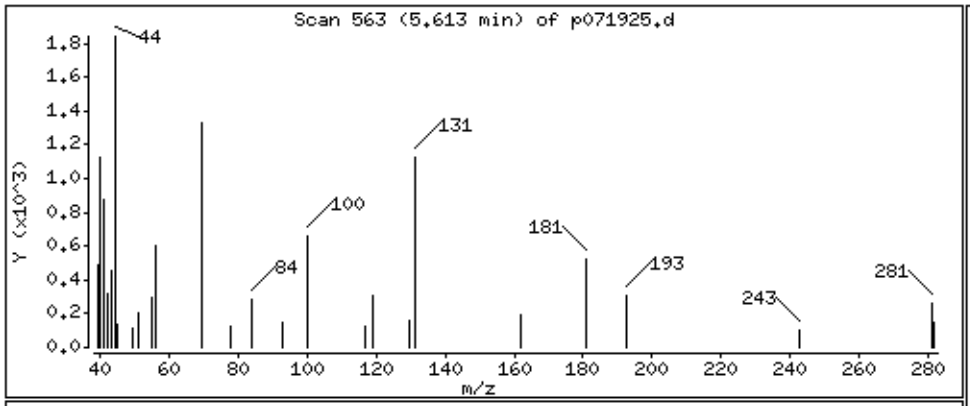
Operator: gh

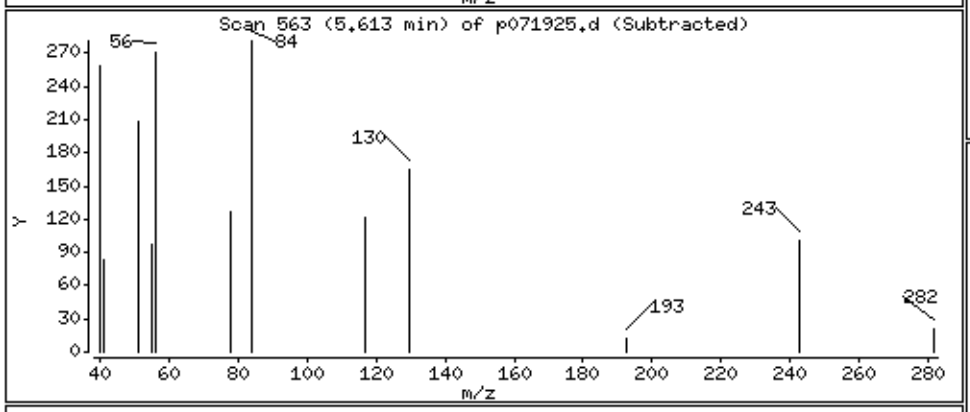
Column phase: RTX-624

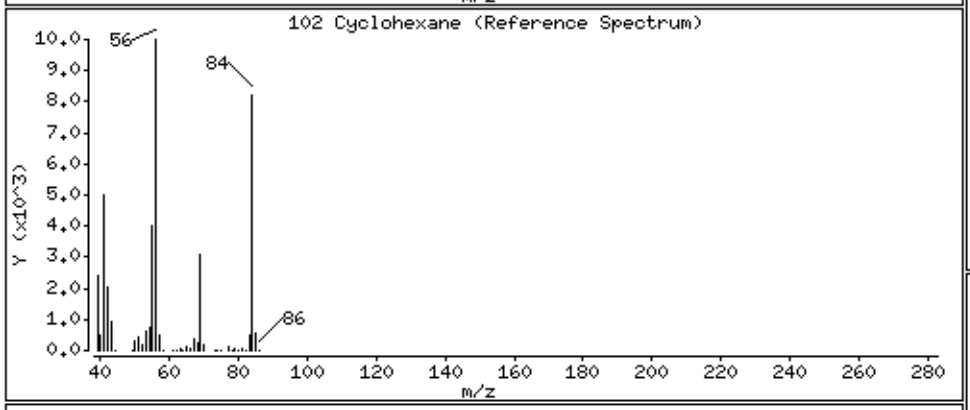
Column diameter: 0.25

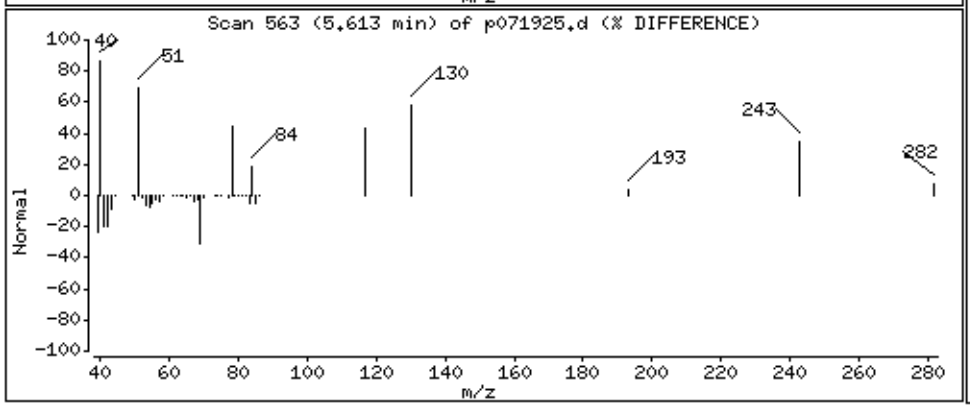
102 Cyclohexane

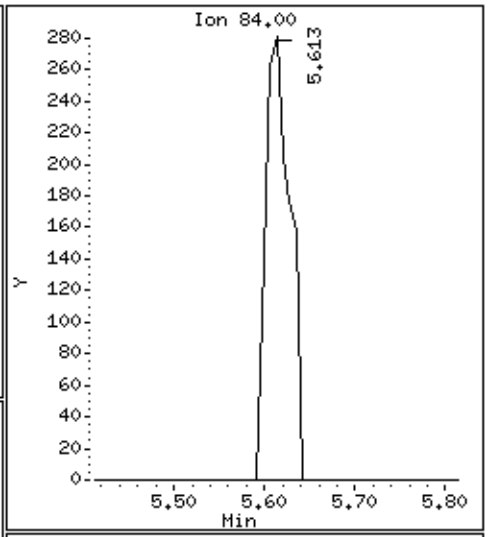
Concentration: 0.2700 PPBV

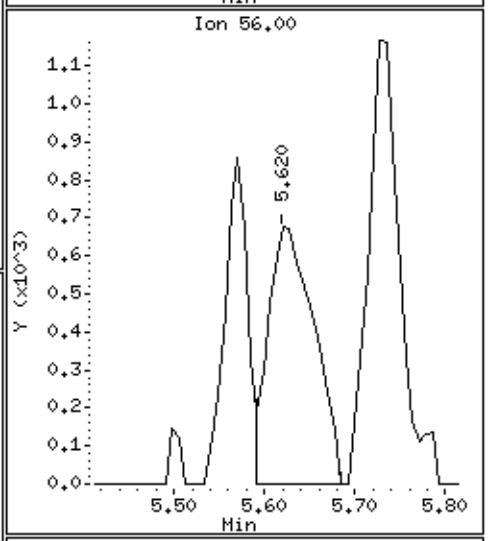


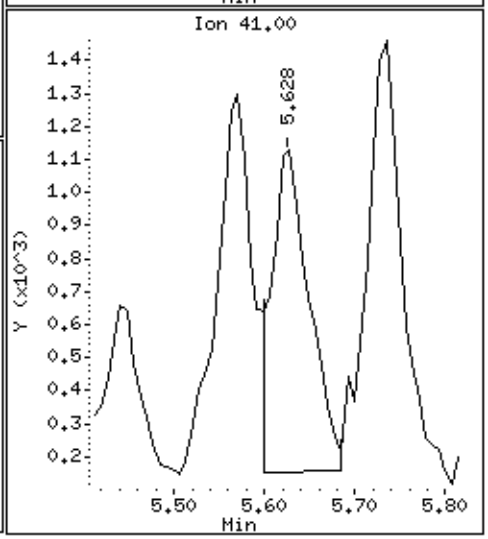












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

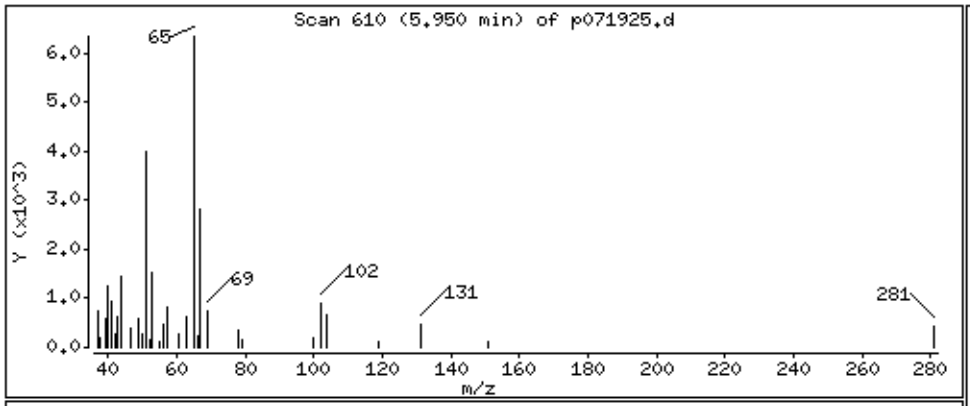
Operator: gh

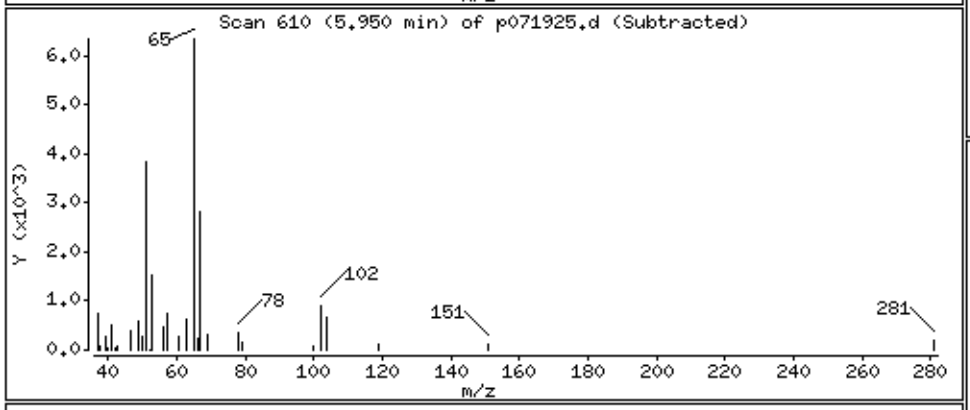
Column phase: RTX-624

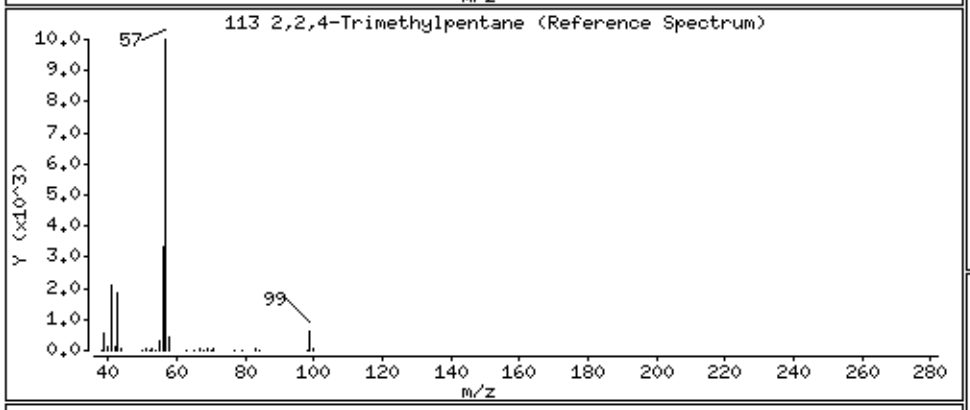
Column diameter: 0.25

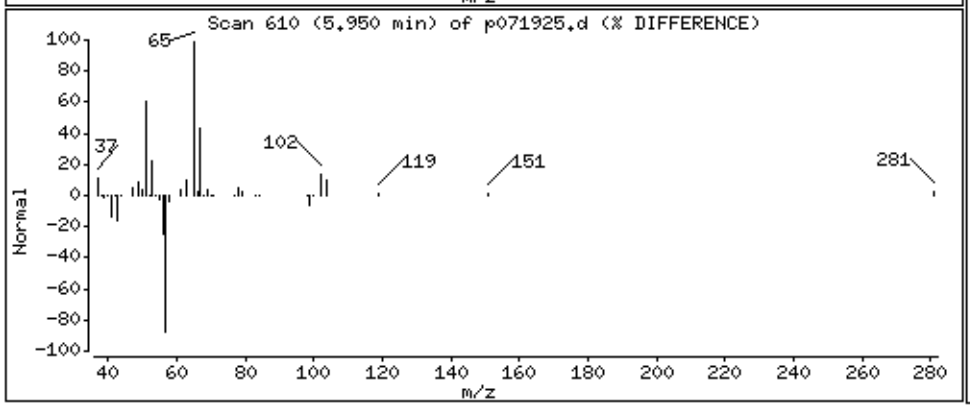
113 2,2,4-Trimethylpentane

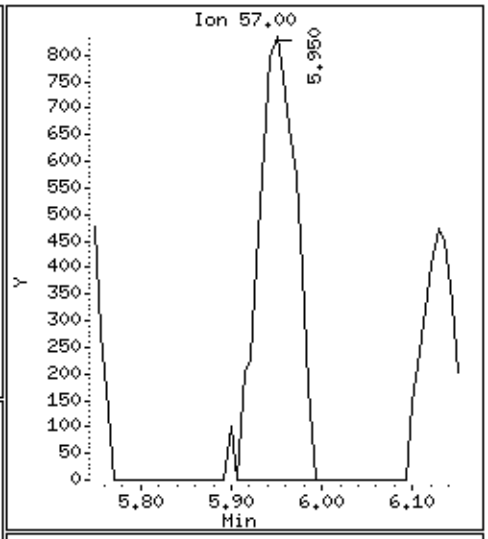
Concentration: 0.2324 PPBV

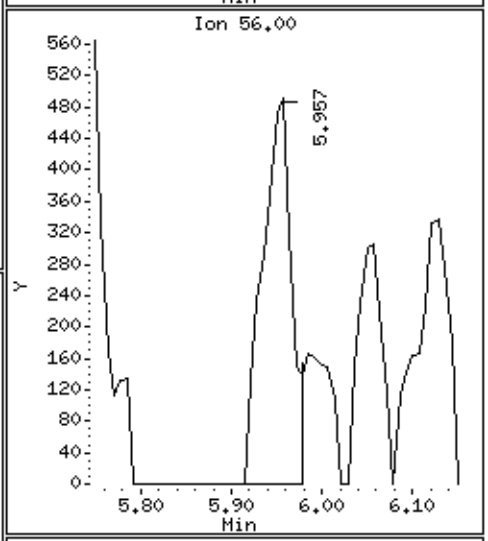


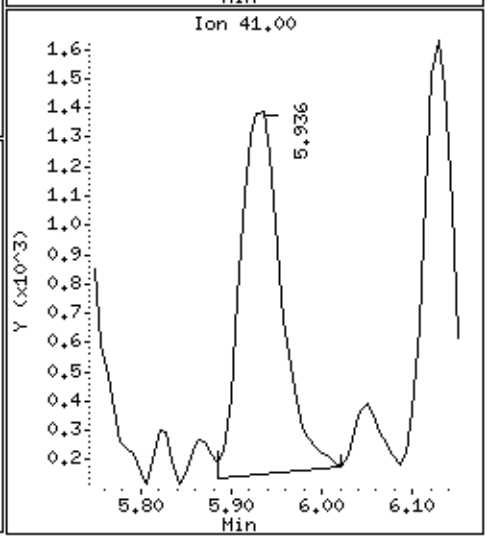












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

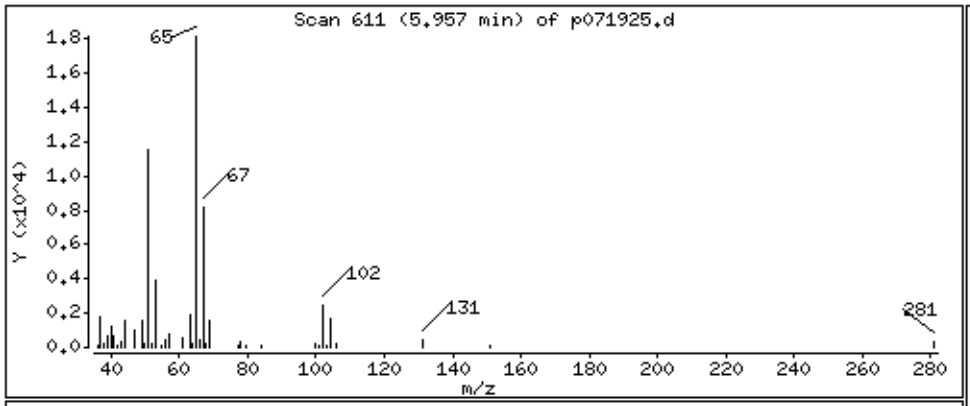
Operator: gh

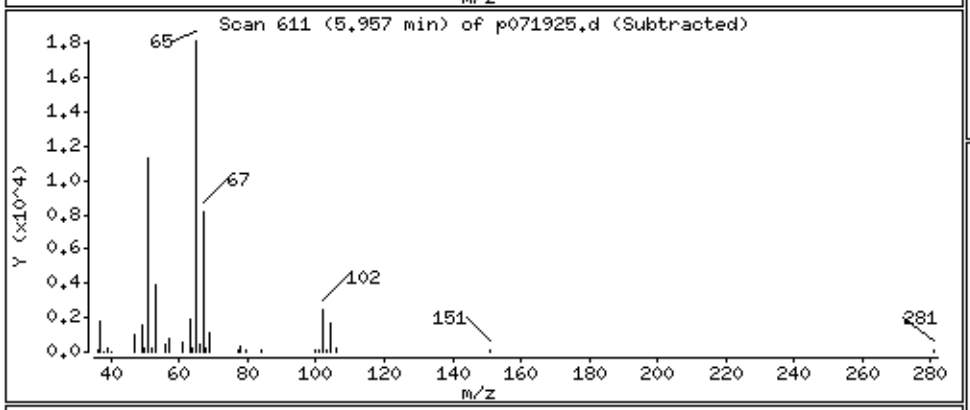
Column phase: RTX-624

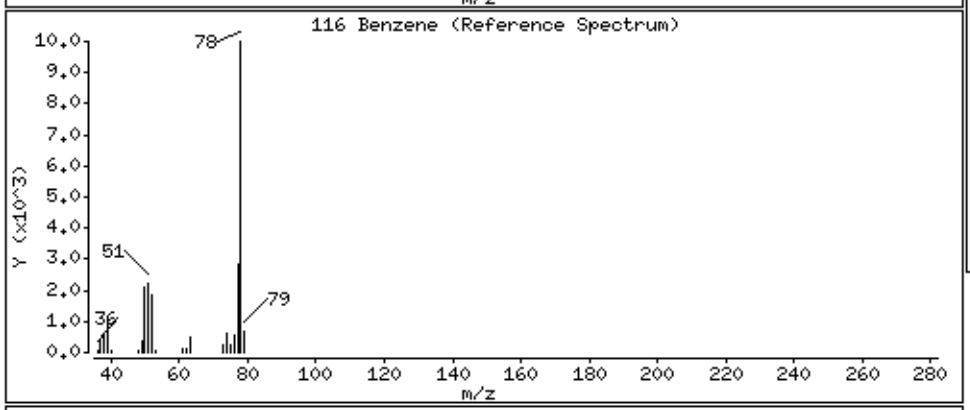
Column diameter: 0.25

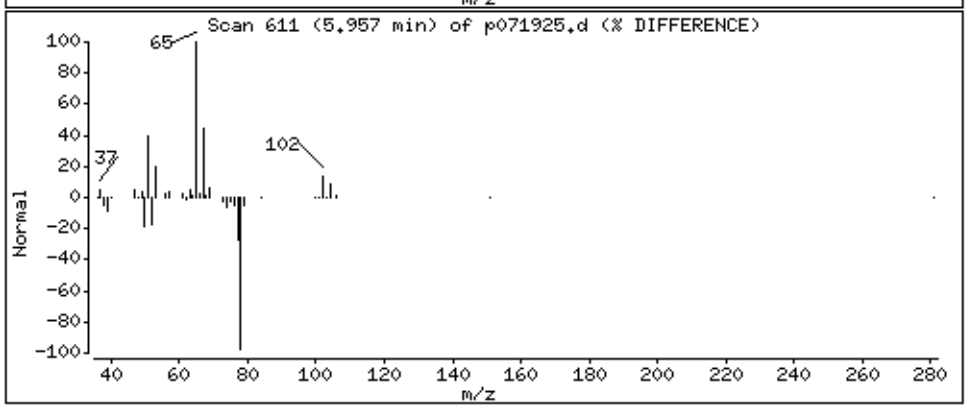
116 Benzene

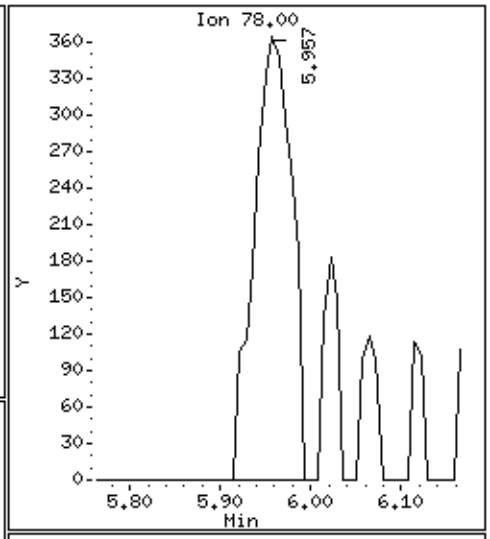
Concentration: 0.2562 PPBV

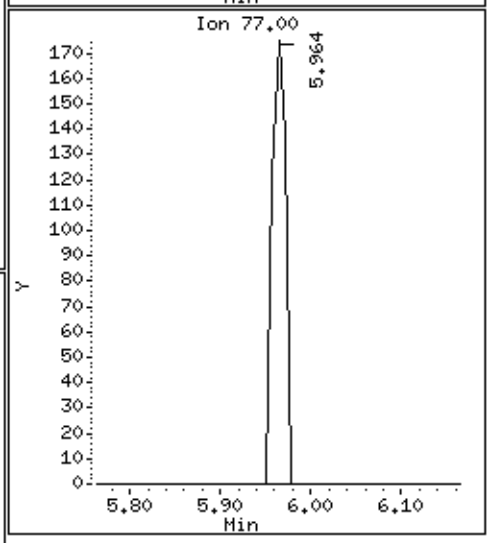












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

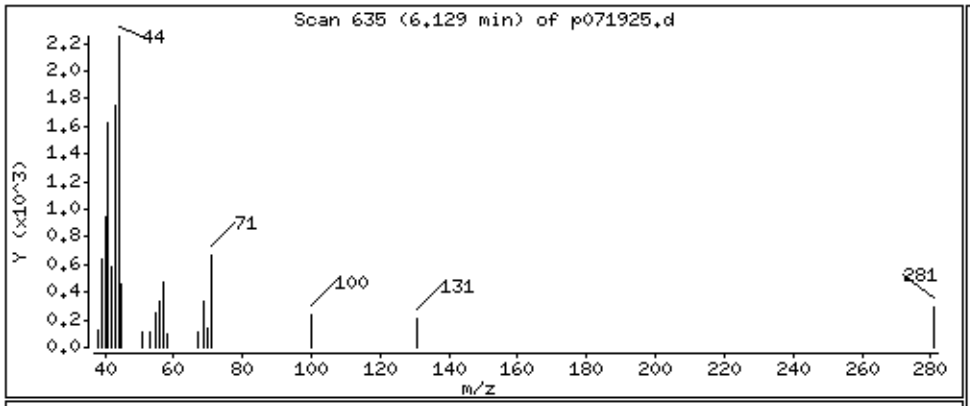
Operator: gh

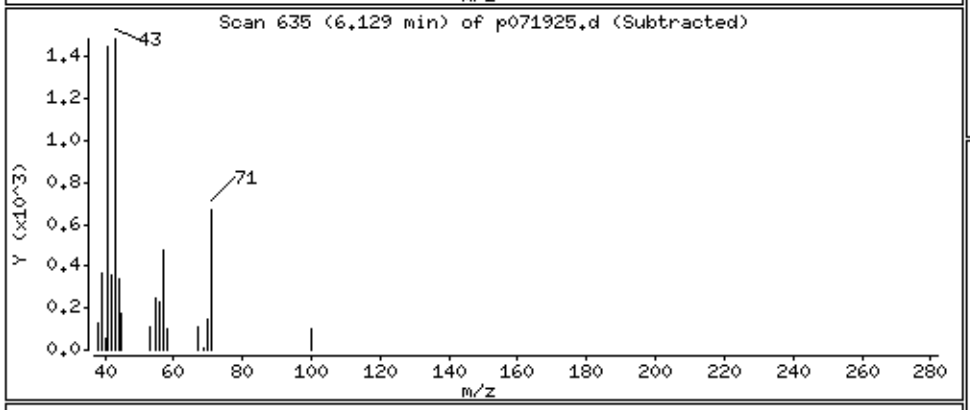
Column phase: RTX-624

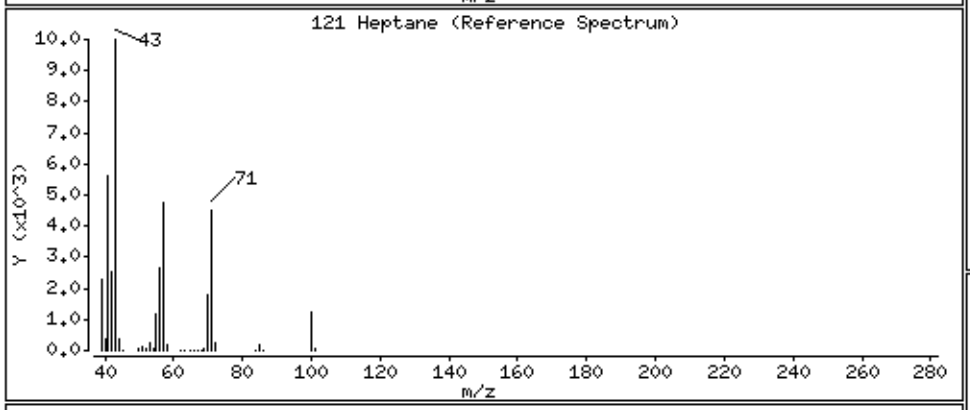
Column diameter: 0.25

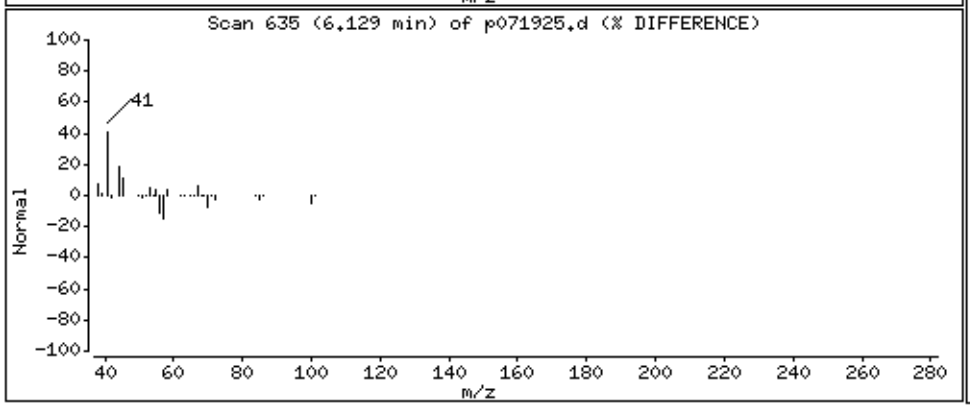
121 Heptane

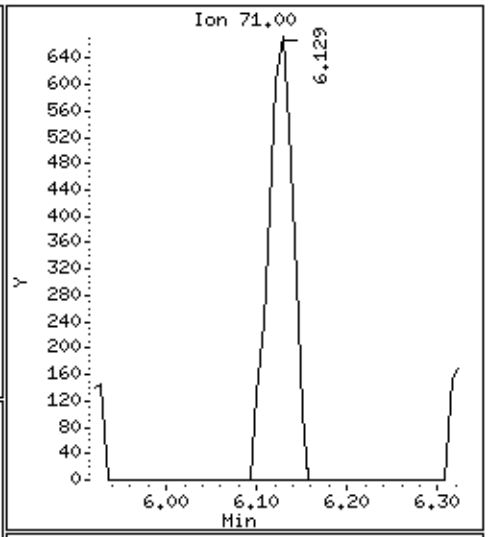
Concentration: 0.8398 PPBV

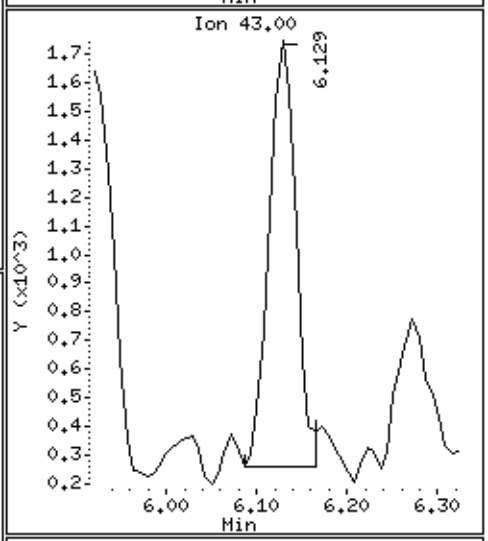


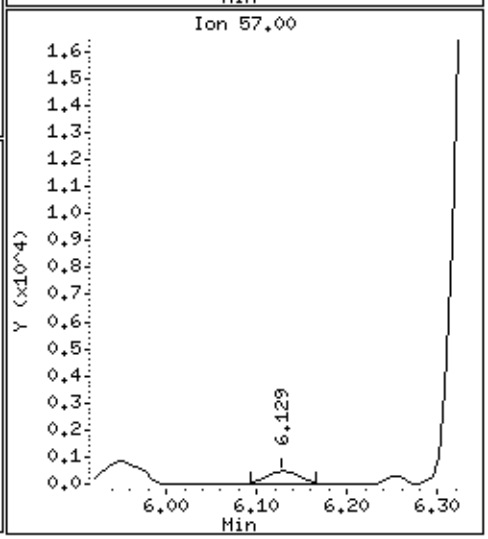












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

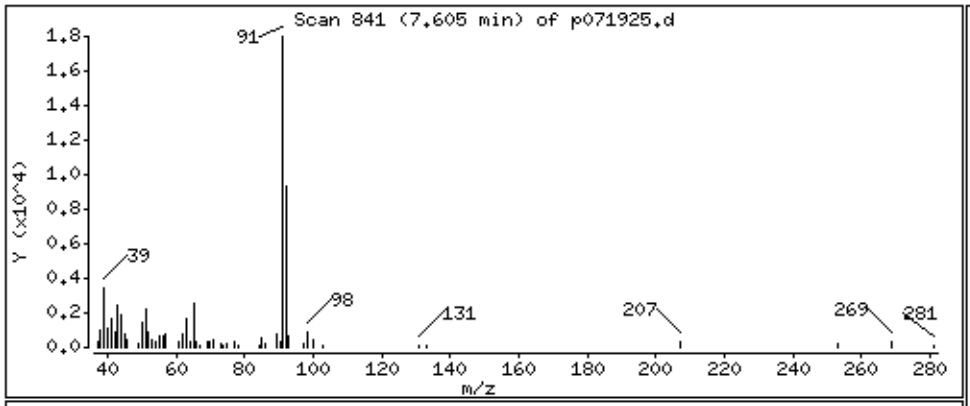
Operator: gh

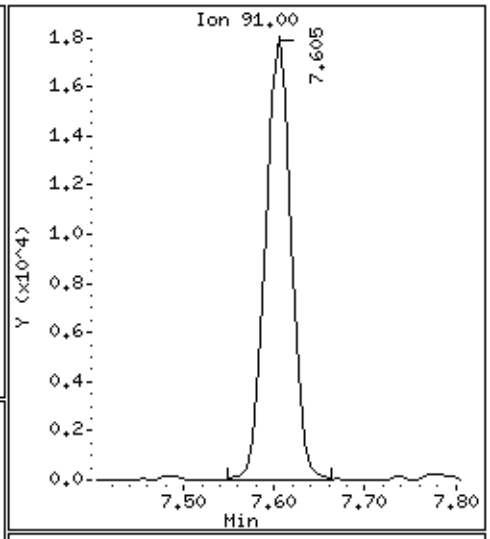
Column phase: RTX-624

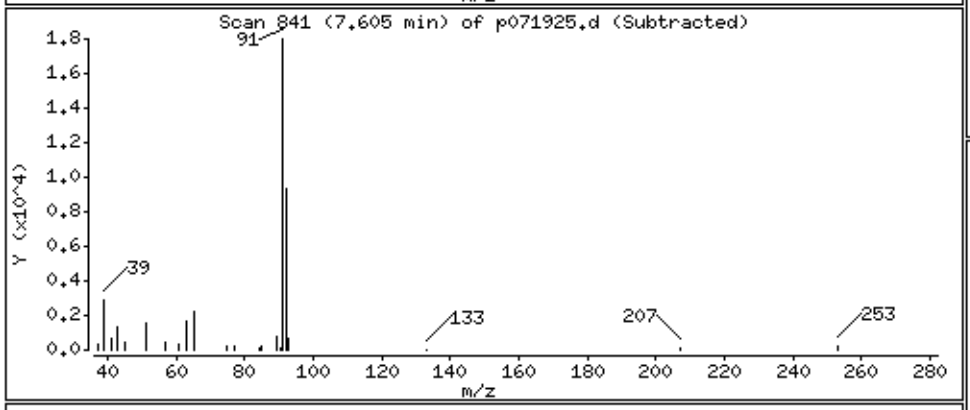
Column diameter: 0.25

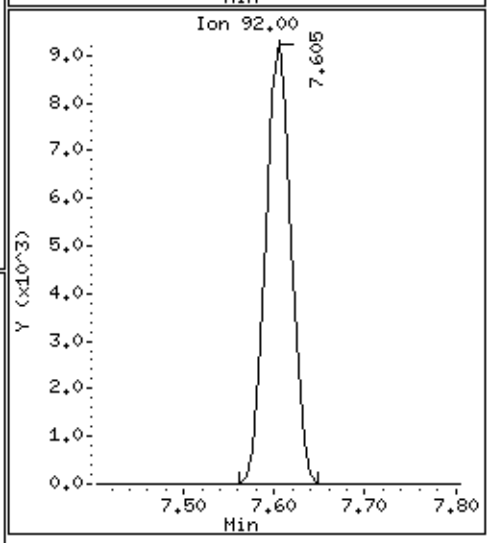
147 Toluene

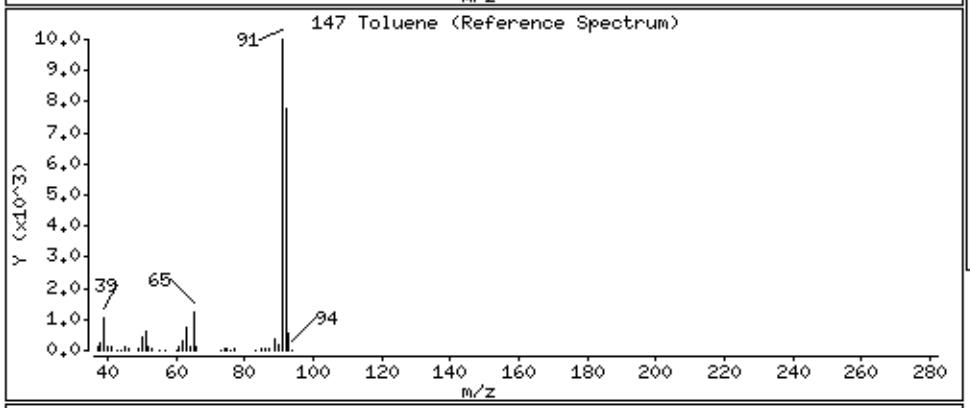
Concentration: 6.298 PPBV

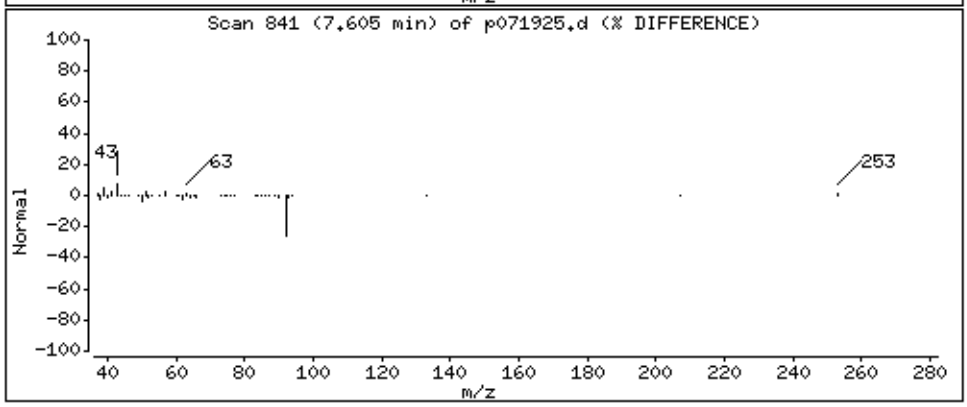












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

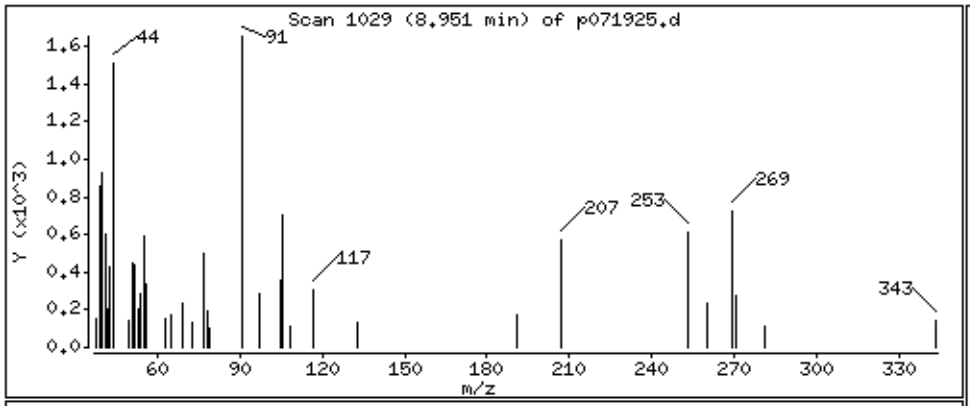
Operator: gh

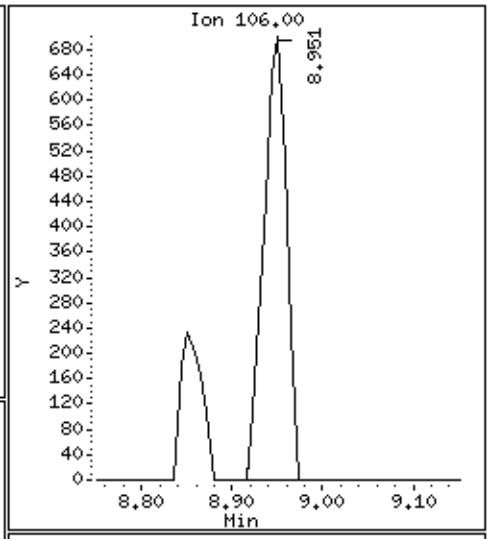
Column phase: RTX-624

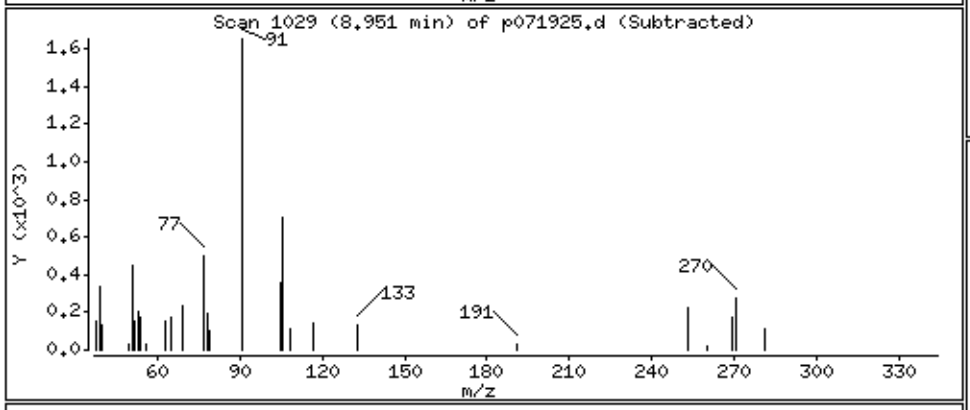
Column diameter: 0.25

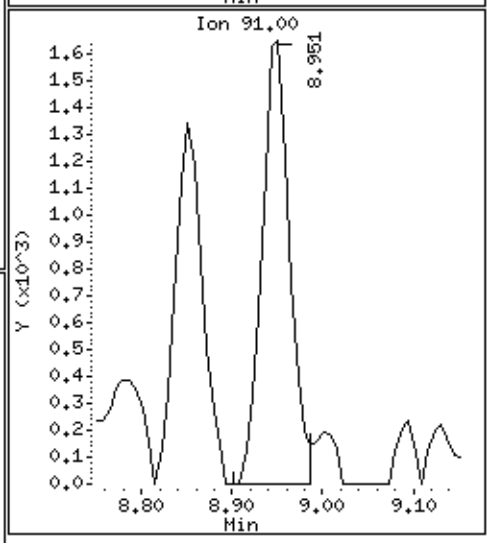
169 m,p-Xylene

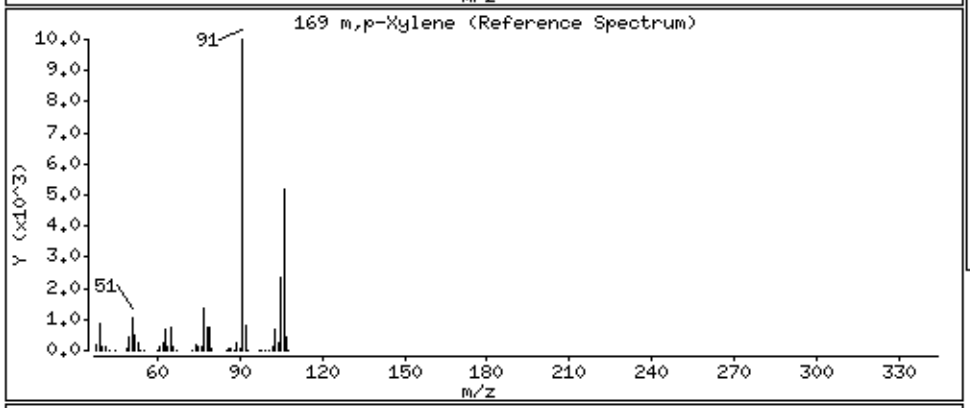
Concentration: 0.3962 PPBV

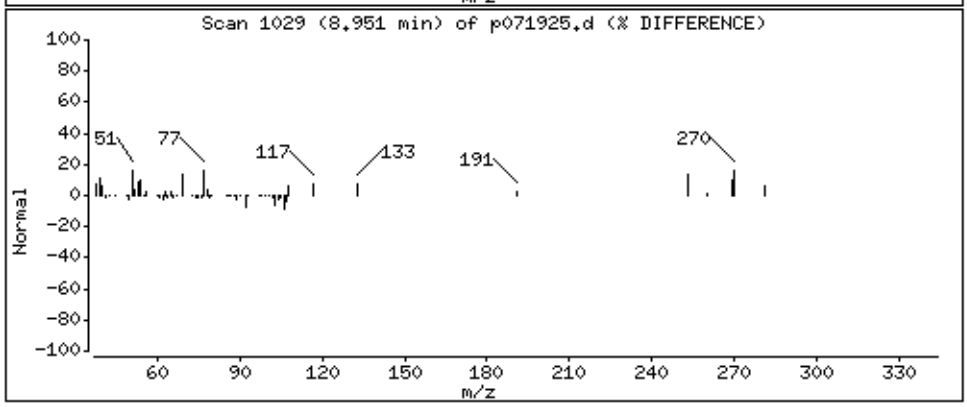












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

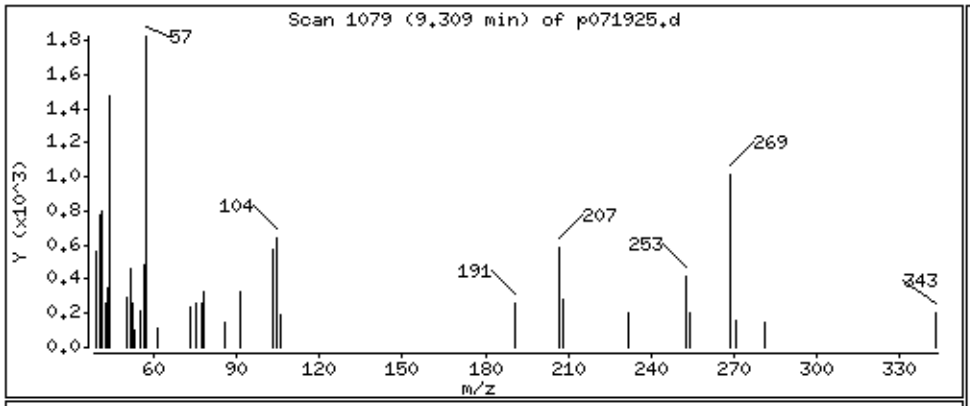
Operator: gh

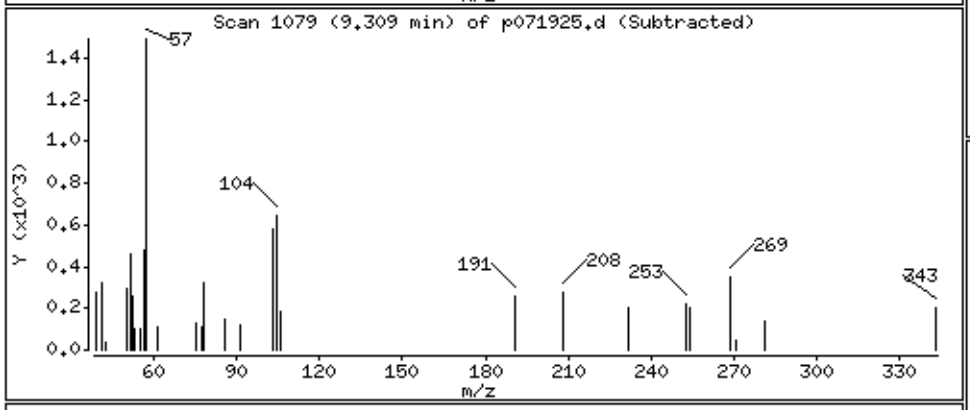
Column phase: RTX-624

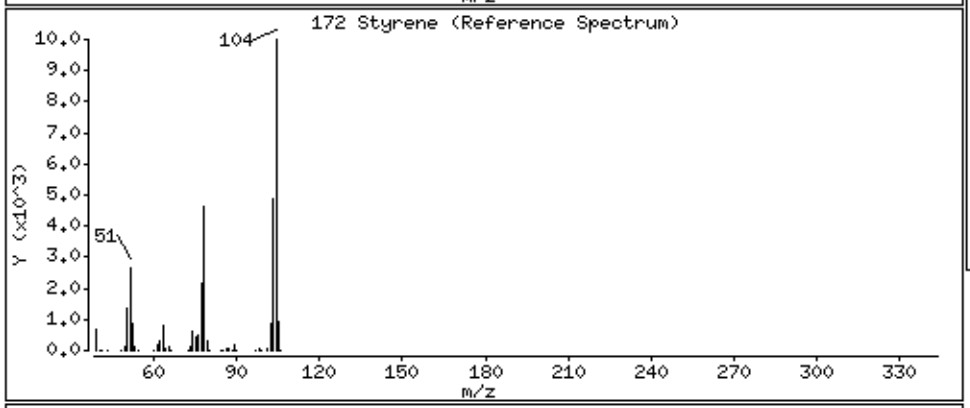
Column diameter: 0.25

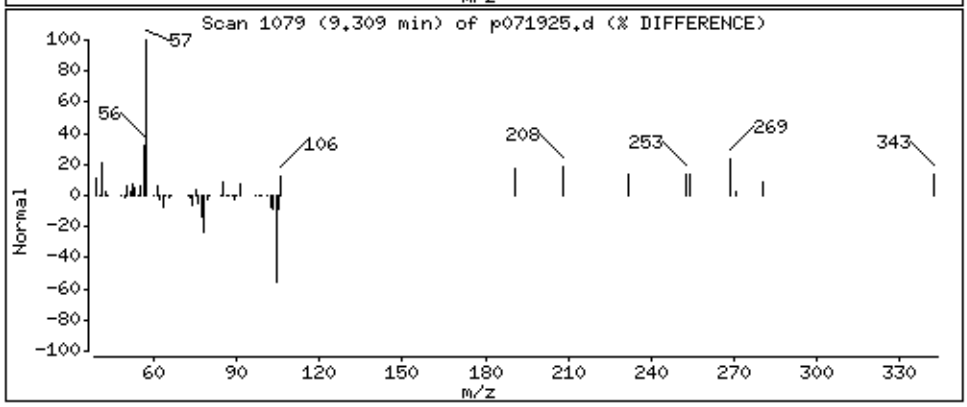
172 Styrene

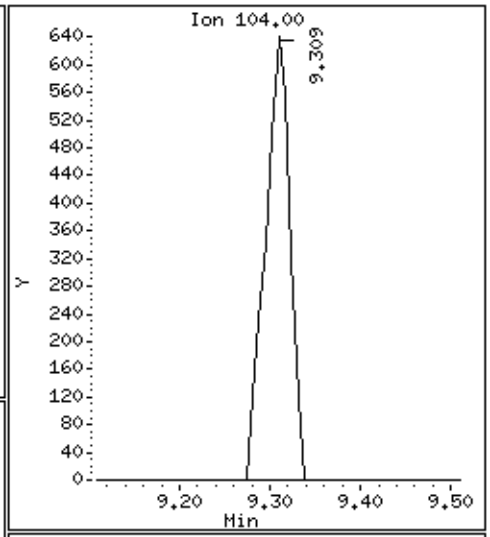
Concentration: 0.2602 PPBV

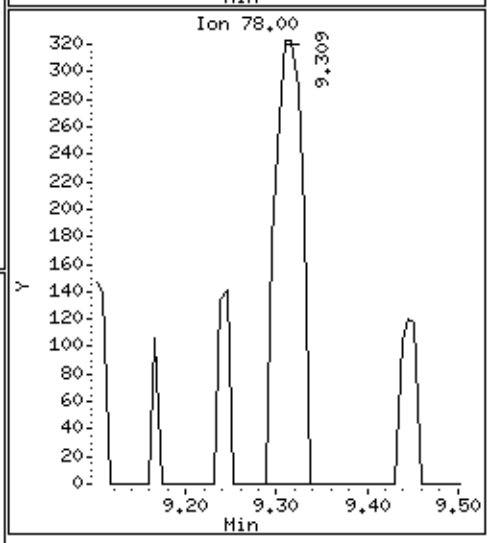












Data File: /chem/msdp.i/19jul16.b/p071925.d

Date : 20-JUL-2016 00:57

Client ID:

Instrument: msdp.i

Sample Info: 200ml 30832

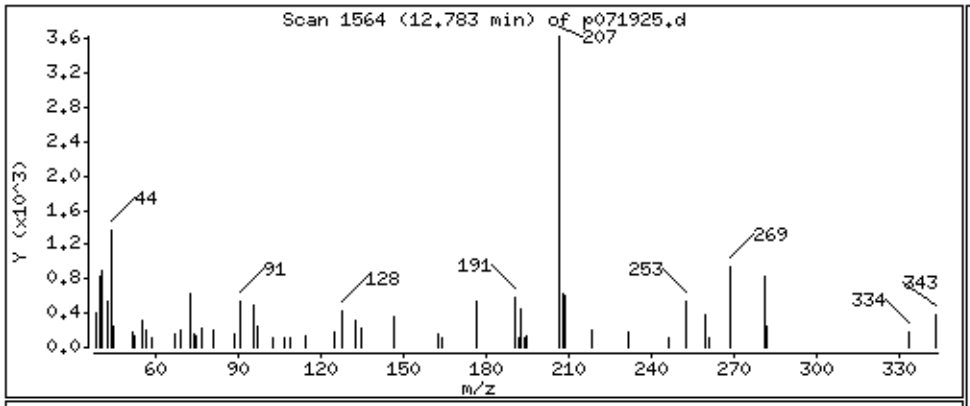
Operator: gh

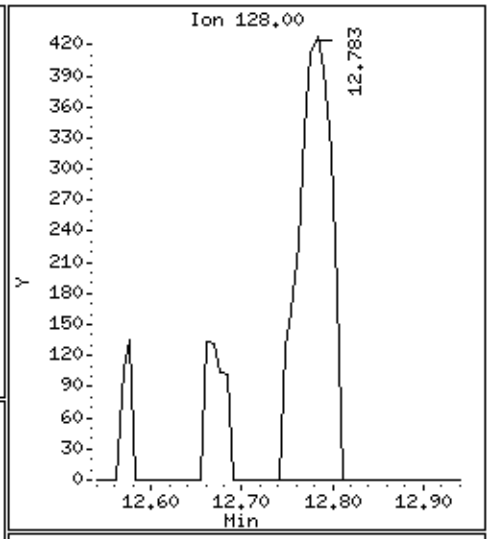
Column phase: RTX-624

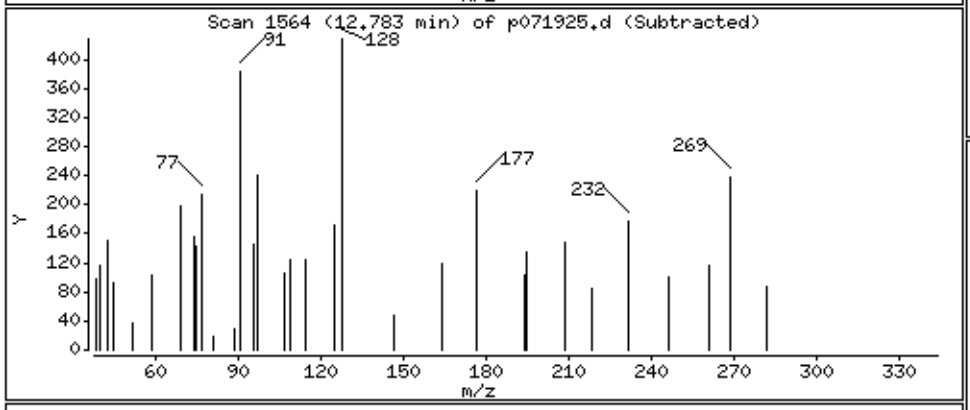
Column diameter: 0.25

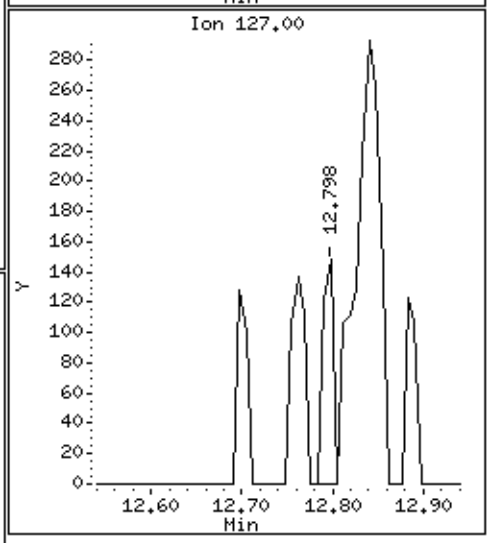
228 Naphthalene

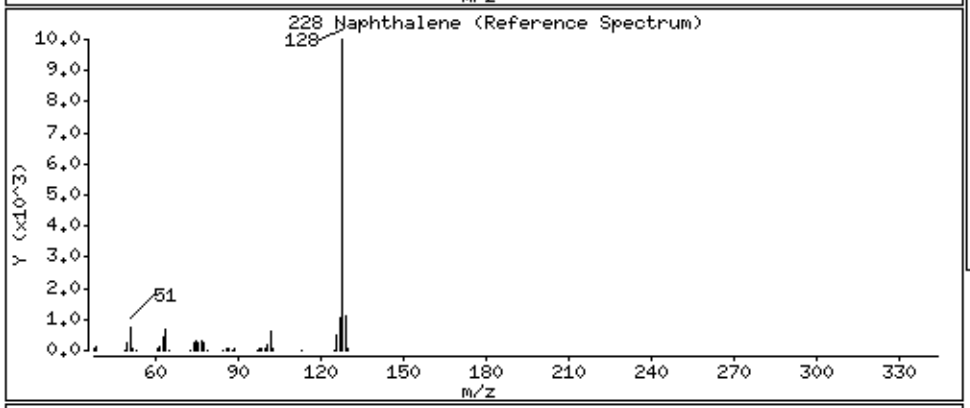
Concentration: 0.1106 PPBV

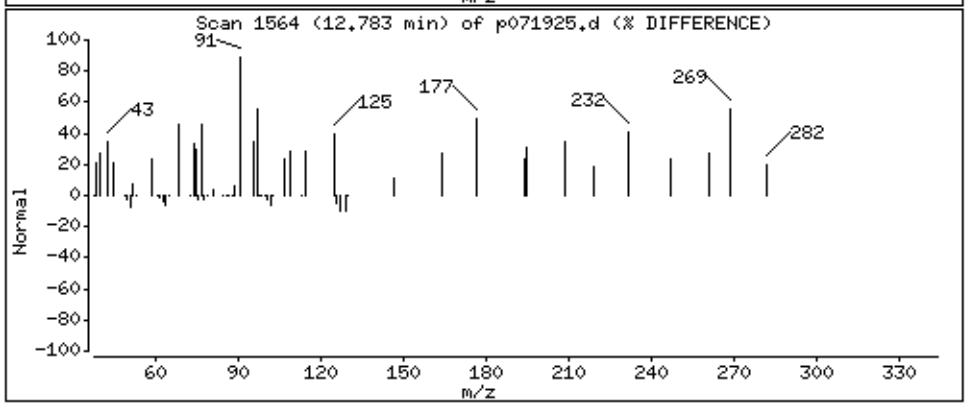












QC Results and Raw Data

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1607235E-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071907c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 02:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	0.47 J	3.8	0.89 J
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	1.2 J	12	2.9 J
2-Propanol	2.0	0.36 J	4.9	0.88 J
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1607235E-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071907c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 02:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	91	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071907c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 19-JUL-2016 14:17
Operator : jg Inst ID: msdp.i
Smp Info : 200mL #33555
Misc Info : Humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 19-Jul-2016 15:24 jscarbro Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 12 QC Sample: BLANK
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.441 (1.000)	130	91789	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	73659			49.40- 109.40	80.25
5.441	5.441 (1.000)	49	211772			153.31- 213.31	230.72
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.330	6.330 (1.000)	114	364031	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	52873			0.00- 43.38	14.52
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	336066	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	181352			21.26- 81.26	53.96
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.097)	65	153579	27.2411	27.241	80.00- 120.00	100.00
5.979	5.979 (1.097)	67	73557			25.58- 85.58	47.90
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.192)	98	377330	25.6809	25.681	80.00- 120.00	100.00
7.547	7.547 (1.192)	70	42984			0.00- 40.37	11.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8 (continued)							
7.547	7.547 (1.192)	100	253489			38.69- 98.69	67.18
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.754 (1.113)	174	250076	22.7564	22.756	80.00- 120.00	100.00
9.761	9.754 (1.113)	95	240810			59.95- 119.95	96.29
9.761	9.754 (1.113)	176	233134			67.47- 127.47	93.23
42 Ethanol					CAS #: 64-17-5		
2.863	2.870 (0.525)	45	1010	0.47358	0.4736	80.00- 120.00	100.00(a)
2.848	2.870 (0.523)	43	731			0.00- 51.15	72.32
2.870	2.870 (0.527)	46	339			7.97- 67.97	33.63
52 Acetone					CAS #: 67-64-1		
3.386	3.371 (0.621)	58	2998	1.21398	1.214	80.00- 120.00	100.00(a)
3.386	3.371 (0.621)	43	12186			353.98- 413.98	406.39
57 2-Propanol					CAS #: 67-63-0		
3.550	3.536 (0.652)	45	3841	0.35844	0.3584	80.00- 120.00	100.00(a)
3.543	3.536 (0.650)	43	849			0.00- 50.28	22.12
0.000	3.536 (0.000)	59	0			0.00- 33.15	0.00

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: msdp.i
Lab File ID: p071907c.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: jg
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: Humid

Calibration Date: 19-JUL-2016
Calibration Time: 11:28
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	91789	-3.65
123 1,4-Difluorobenze	379135	227481	530789	364031	-3.98
163 Chlorobenzene-d5	348612	209167	488057	336066	-3.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.33	6.00	6.66	6.33	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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: 19-Jul-2016 15:26

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 19jul16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: jg
Data Type: MS DATA
SampleType: BLANK
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.241	108.96	70-130
$ 146 Toluene-d8	25.000	25.681	102.72	70-130
$ 177 4-Bromofluorobenze	25.000	22.756	91.03	70-130

Data File: /chem/msdp.i/19jul16.b/p071907c.d

Page 1

Date : 19-JUL-2016 14:17

Client ID: Lab Blank

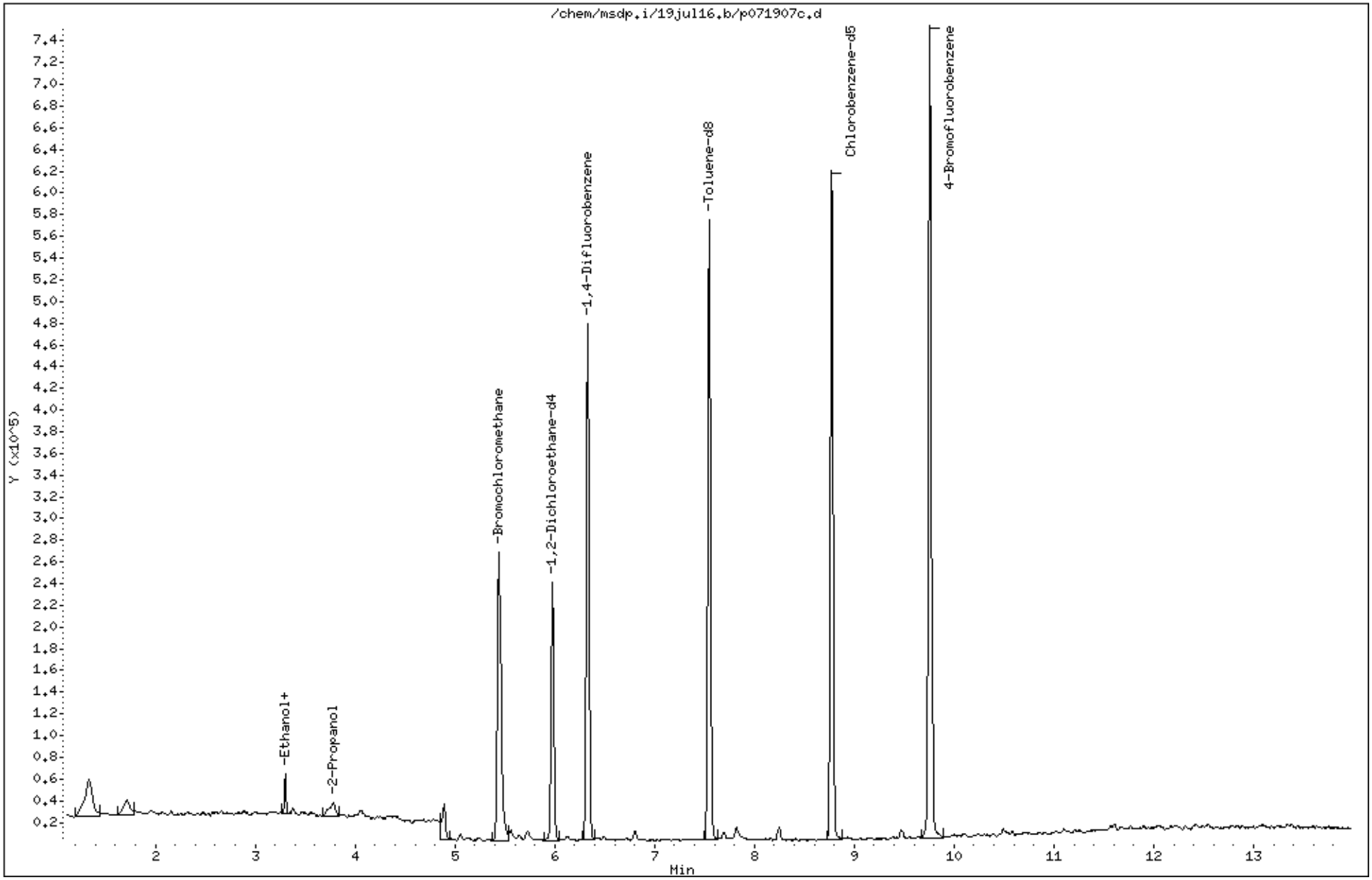
Instrument: msdp.i

Sample Info: 200mL #33555

Operator: jg

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/19jul16.b/p071907c.d

Date : 19-JUL-2016 14:17

Client ID: Lab Blank

Instrument: msdp.i

Sample Info: 200mL #33555

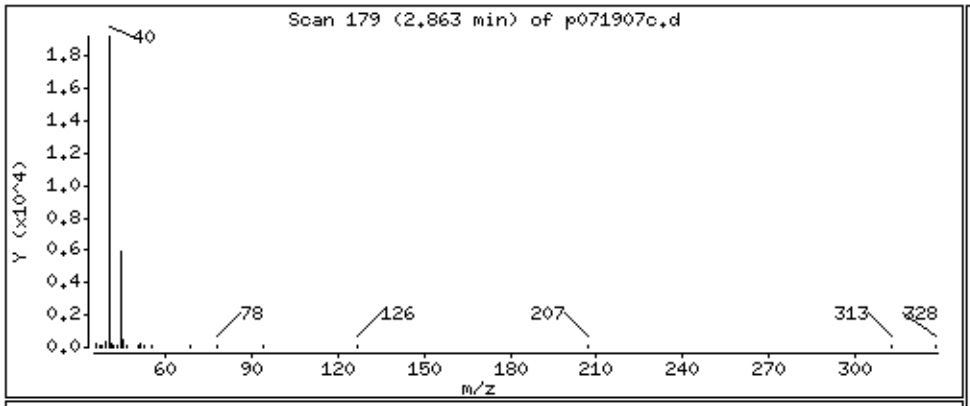
Operator: jg

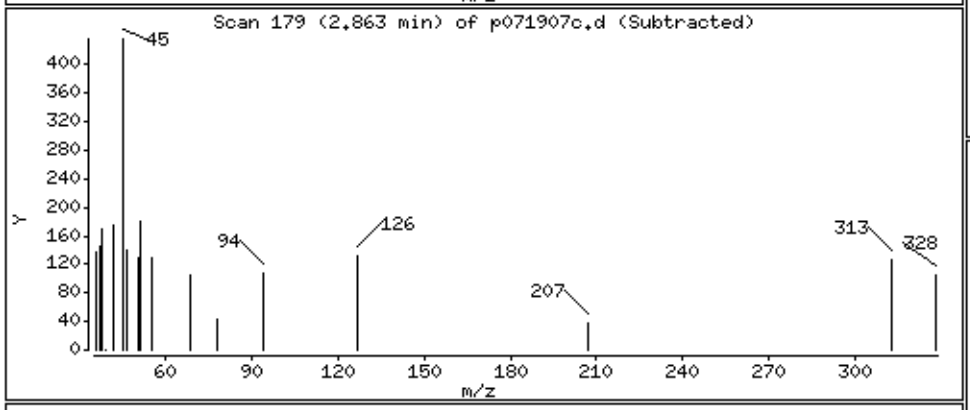
Column phase: RTX-624

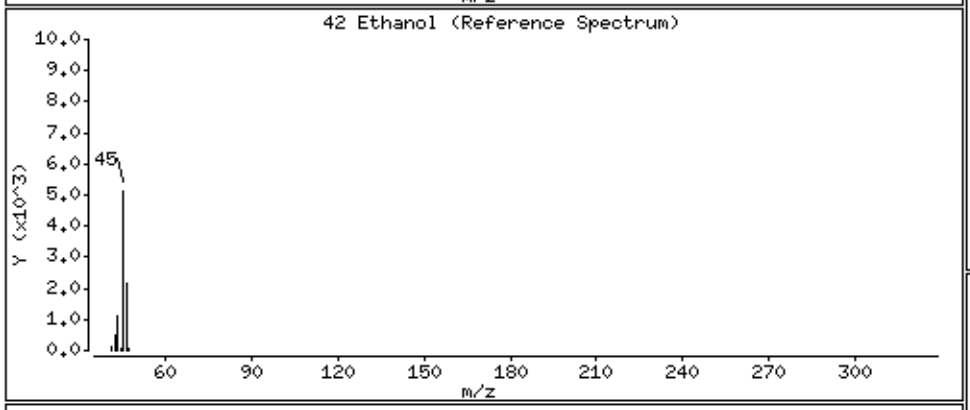
Column diameter: 0.25

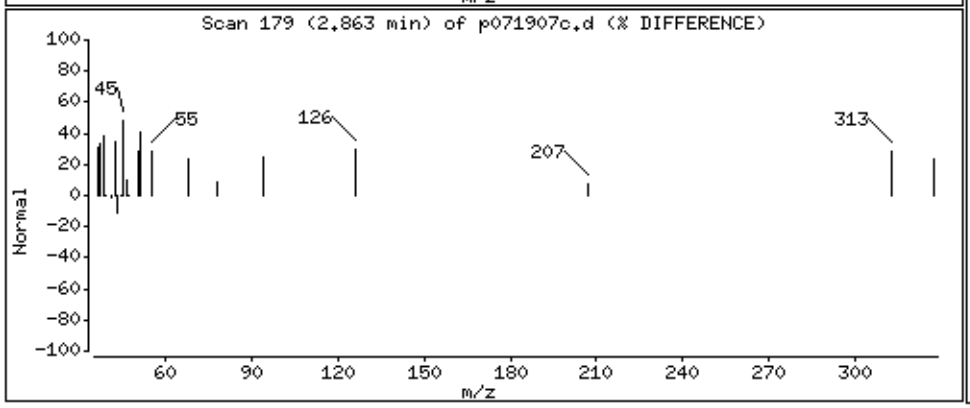
42 Ethanol

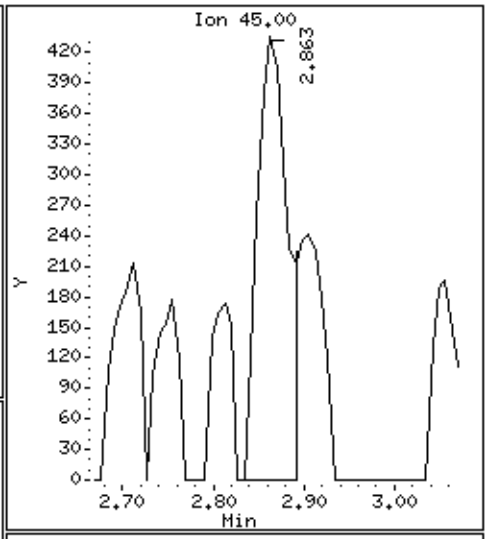
Concentration: 0.4736 PPBV

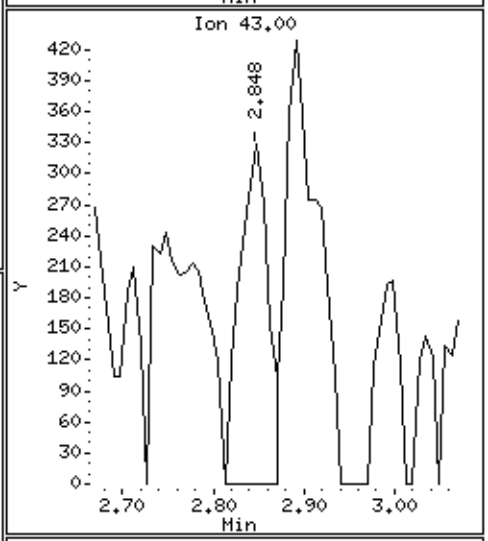


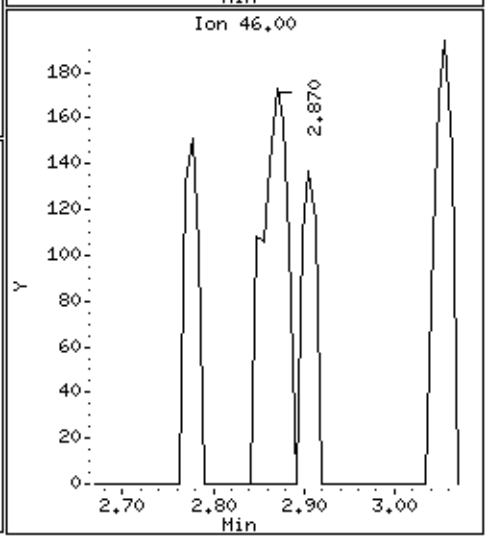












Data File: /chem/msdp.i/19jul16.b/p071907c.d

Date : 19-JUL-2016 14:17

Client ID: Lab Blank

Instrument: msdp.i

Sample Info: 200mL #33555

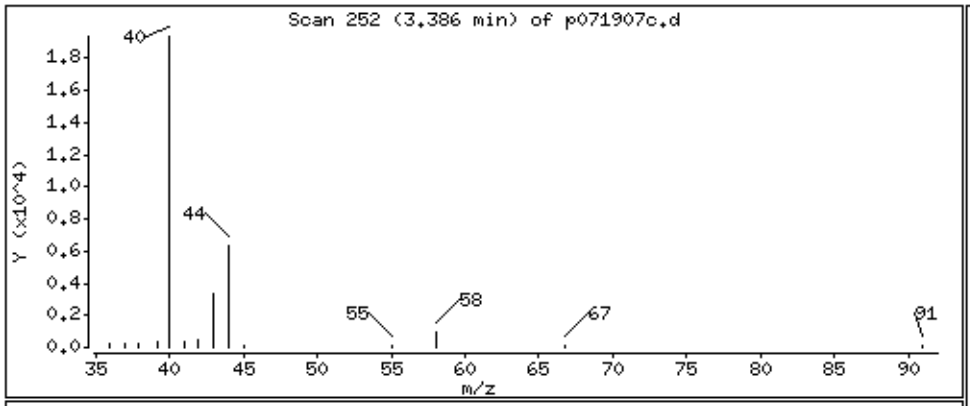
Operator: jg

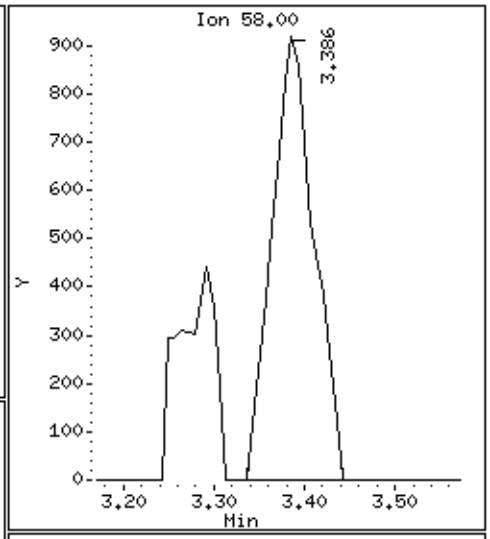
Column phase: RTX-624

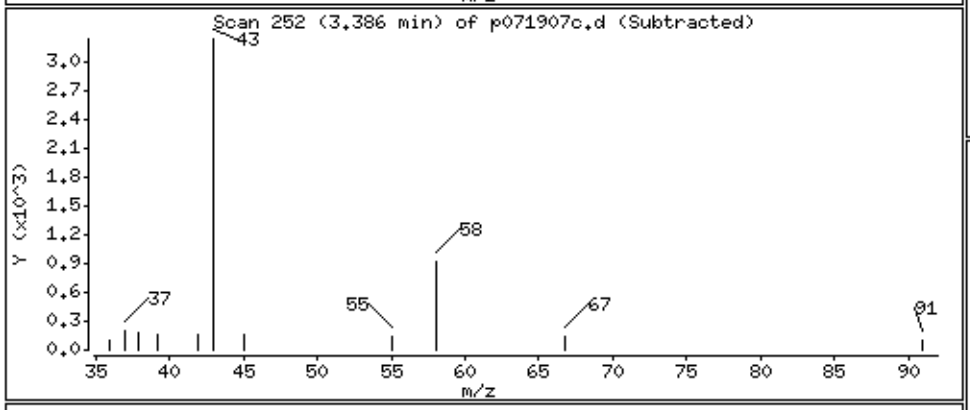
Column diameter: 0.25

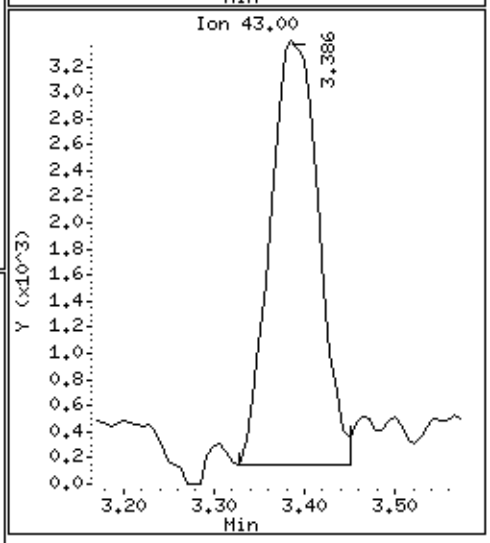
52 Acetone

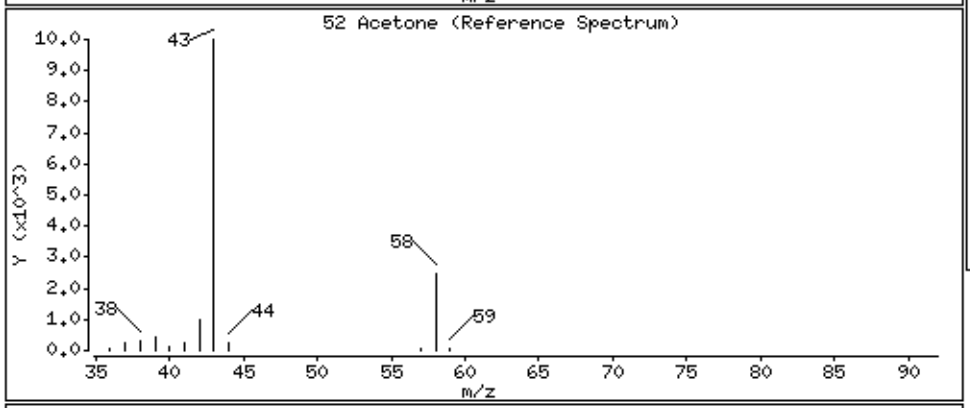
Concentration: 1.214 PPBV

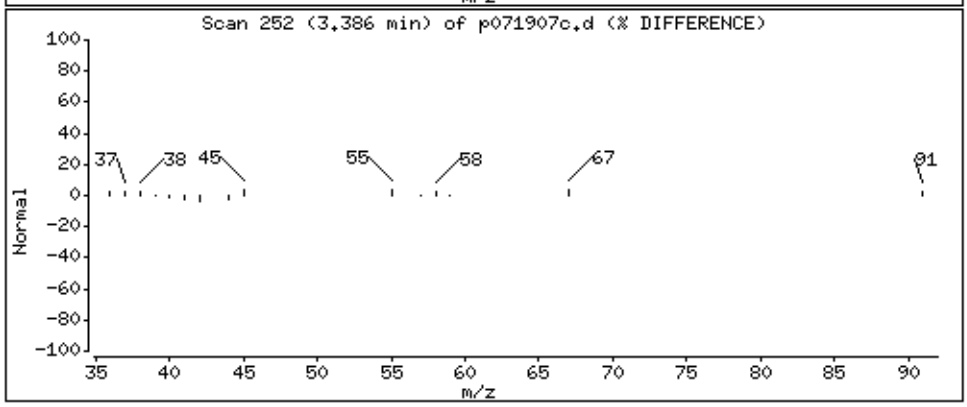












Data File: /chem/msdp.i/19jul16.b/p071907c.d

Date : 19-JUL-2016 14:17

Client ID: Lab Blank

Instrument: msdp.i

Sample Info: 200mL #33555

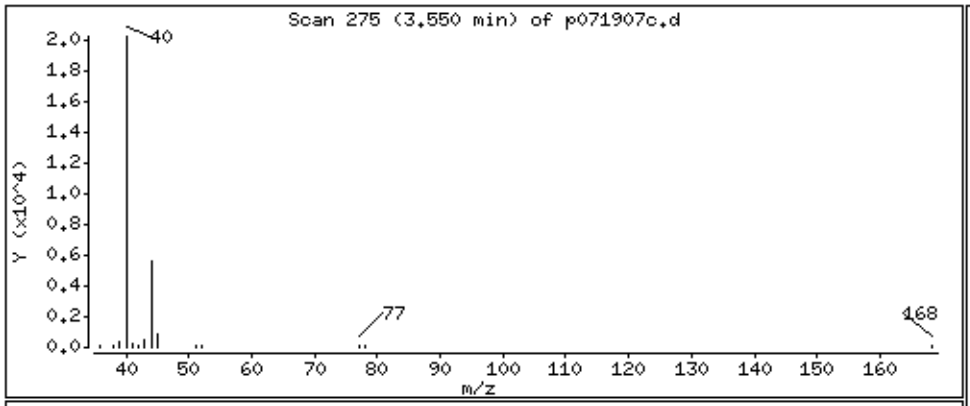
Operator: jg

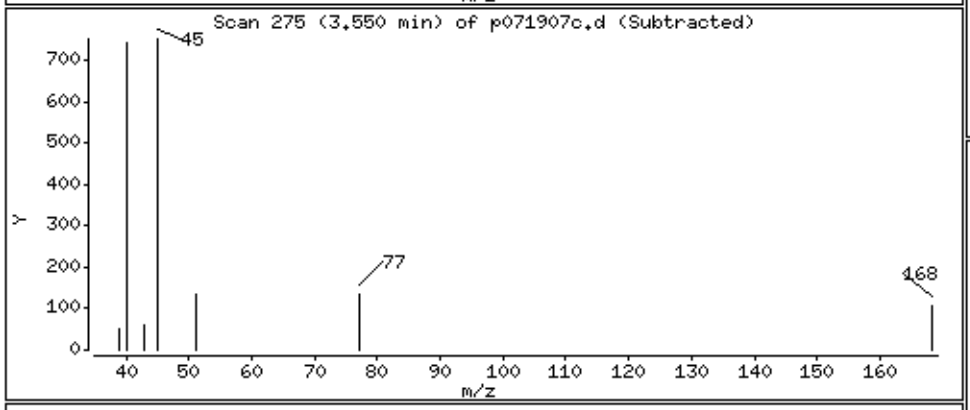
Column phase: RTX-624

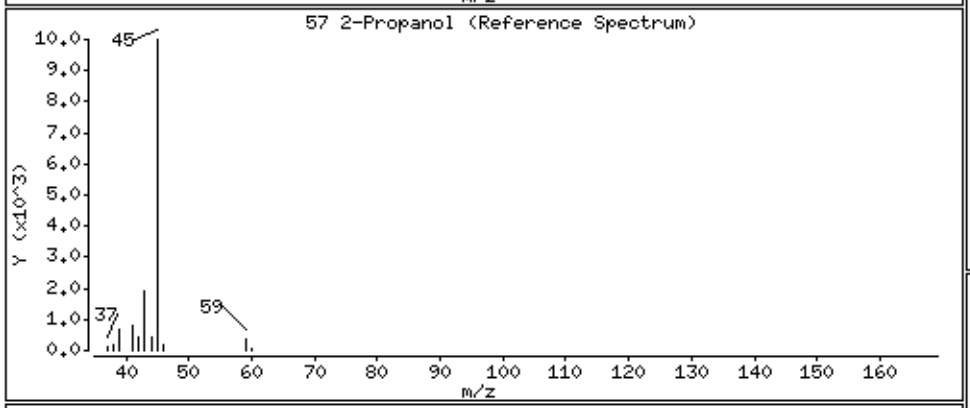
Column diameter: 0.25

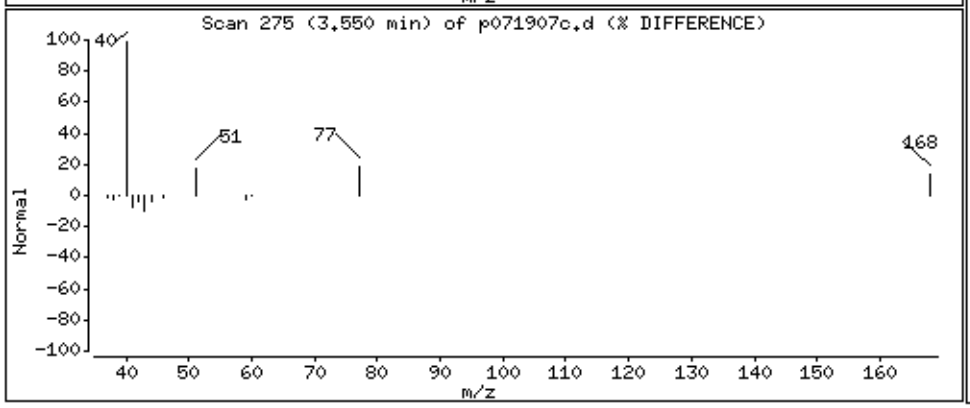
57 2-Propanol

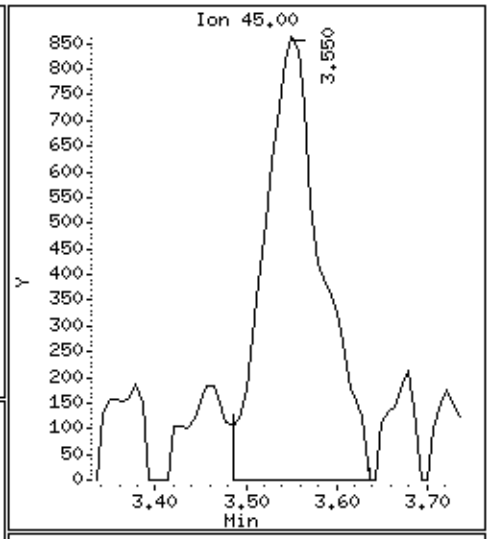
Concentration: 0.3584 PPBV

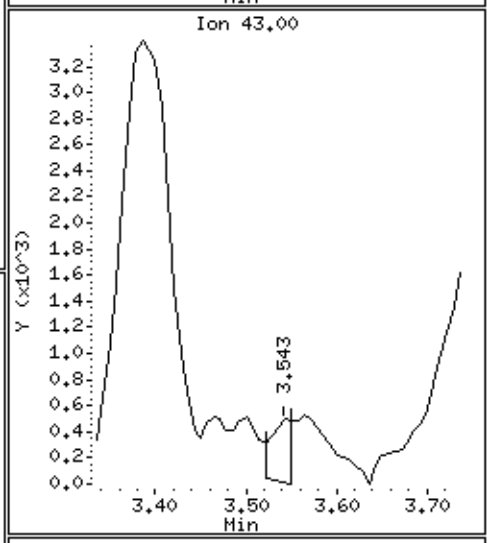


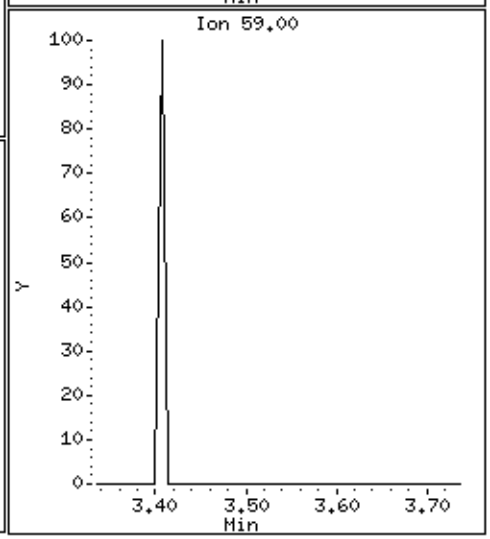












LEVEL-IV VALIDATABLE

EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1607235E

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	B18SS-1	110		103		91				0
02	B18SS-2	105		103		95				0
03	B18SS-3	106		100		92				0
04	B18SS-4	108		106		91				0
05	B18SS-5	110		102		93				0
06	B18SS-1D	105		104		92				0
07	Lab Blank	109		103		91				0
08	CCV	106		103		93				0
09	LCS	109		103		99				0
10	LCSD	109		98		98				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

EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD

SDG No: 1607235E

Lab File ID: p071902.d

Date Analyzed: 07/19/2016

Instrument ID: msdp.i

Time Analyzed: 11:28 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	348612		8.77		379135		6.33		95264		5.44	
	UPPER LIMIT	488057		09.10		530789		06.66		133370		05.77	
	LOWER LIMIT	209167		08.44		227481		06.00		57158		05.11	
	CLIENT SAMPLE NO												
01	B18SS-1	308411		8.77		330996		6.34		83554		5.45	
02	B18SS-2	294556		8.77		324449		6.34		85934		5.44	
03	B18SS-3	298140		8.77		326339		6.34		85281		5.45	
04	B18SS-4	295427		8.77		317770		6.34		83579		5.45	
05	B18SS-5	296670		8.78		318479		6.34		82034		5.45	
06	B18SS-1D	298637		8.77		317654		6.34		82768		5.45	
07	Lab Blank	336066		8.77		364031		6.33		91789		5.45	
08	CCV	348612		8.77		379135		6.33		95264		5.44	
09	LCS	335409		8.77		374725		6.33		94195		5.44	
10	LCSD	333654		8.77		386638		6.33		94211		5.44	
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: p071904.d & p071903.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 7/19/16 & 7/19/16

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	97		99		2.0	
79-34-5	1,1,2,2-Tetrachloroethane	105		108		2.8	
79-00-5	1,1,2-Trichloroethane	104		106		1.9	
75-34-3	1,1-Dichloroethane	108		109		0.92	
75-35-4	1,1-Dichloroethene	99		103		4.0	
120-82-1	1,2,4-Trichlorobenzene	87		93		6.7	
95-63-6	1,2,4-Trimethylbenzene	99		104		4.9	
106-93-4	1,2-Dibromoethane (EDB)	101		104		2.9	
95-50-1	1,2-Dichlorobenzene	96		99		3.1	
107-06-2	1,2-Dichloroethane	106		106		0	
78-87-5	1,2-Dichloropropane	109		105		3.7	
108-67-8	1,3,5-Trimethylbenzene	101		100		1.0	
106-99-0	1,3-Butadiene	100		109		8.6	
541-73-1	1,3-Dichlorobenzene	94		97		3.1	
106-46-7	1,4-Dichlorobenzene	92		97		5.3	
123-91-1	1,4-Dioxane	98		97		1.0	
540-84-1	2,2,4-Trimethylpentane	113		114		0.88	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	104		102		1.9	
591-78-6	2-Hexanone	114		116		1.7	
67-63-0	2-Propanol	122		123		0.82	
107-05-1	3-Chloropropene	100		97		3.0	
622-96-8	4-Ethyltoluene	97		103		6.0	
108-10-1	4-Methyl-2-pentanone	110		104		5.6	
67-64-1	Acetone	109		110		0.91	
100-44-7	alpha-Chlorotoluene	103		104		0.97	
71-43-2	Benzene	101		99		2.0	
75-27-4	Bromodichloromethane	105		103		1.9	
75-25-2	Bromoform	98		99		1.0	
74-83-9	Bromomethane	106		108		1.9	
75-15-0	Carbon Disulfide	91		91		0	
56-23-5	Carbon Tetrachloride	92		94		2.2	
108-90-7	Chlorobenzene	98		100		2.0	
75-00-3	Chloroethane	116		116		0	
67-66-3	Chloroform	104		106		1.9	
74-87-3	Chloromethane	147		142		3.5	
156-59-2	cis-1,2-Dichloroethene	103		105		1.9	
10061-01-5	cis-1,3-Dichloropropene	95		92		3.2	
98-82-8	Cumene	103		105		1.9	
110-82-7	Cyclohexane	106		103		2.9	
124-48-1	Dibromochloromethane	98		99		1.0	
64-17-5	Ethanol	129		134		3.8	
100-41-4	Ethyl Benzene	99		100		1.0	
75-69-4	Freon 11	101		102		0.98	
76-13-1	Freon 113	92		94		2.2	
76-14-2	Freon 114	100		102		2.0	

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: p071904.d & p071903.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 7/19/16 & 7/19/16

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
75-71-8	Freon 12	104		106		1.9	
142-82-5	Heptane	102		100		2.0	
87-68-3	Hexachlorobutadiene	84		88		4.6	
110-54-3	Hexane	110		113		2.7	
108-38-3	m,p-Xylene	100		102		2.0	
1634-04-4	Methyl tert-butyl ether	99		101		2.0	
75-09-2	Methylene Chloride	121		120		0.83	
91-20-3	Naphthalene	77		85		9.9	
95-47-6	o-Xylene	103		105		1.9	
103-65-1	Propylbenzene	105		106		0.95	
100-42-5	Styrene	107		109		1.8	
127-18-4	Tetrachloroethene	95		96		1.0	
109-99-9	Tetrahydrofuran	121		121		0	
108-88-3	Toluene	100		97		3.0	
156-60-5	trans-1,2-Dichloroethene	106		108		1.9	
10061-02-6	trans-1,3-Dichloropropene	102		103		0.98	
79-01-6	Trichloroethene	97		94		3.1	
75-01-4	Vinyl Chloride	133		134		0.75	

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 : 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/07apr16.b/p040709.d
Level 3: /chem/msdp.i/17jun16.b/p061708.d
Level 4: /chem/msdp.i/12jul16.b/p071206.d
Level 5: /chem/msdp.i/07apr16.b/p040712.d
Level 6: /chem/msdp.i/12jul16.b/p071207.d
Level 7: /chem/msdp.i/07apr16.b/p040714.d
Level 8: /chem/msdp.i/12jul16.b/p071208.d

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
1 Dimethyl Ether	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
2 Freon 14	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
3 Acetaldehyde	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
4 Hexafluoropropene	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
5 Freon 13	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
6 Freon 143a	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
7 Freon 134a	++++++	0.81733	++++++	++++++	0.76466	++++++	0.72735	0.76978	5.873

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++	1.46752	1.31813	1.04742	1.17539	1.21545	1.21391	1.23964	11.432
10 1,1-Difluoroethane	+++++	0.47588	+++++	+++++	0.44842	+++++	0.34521	0.42317	16.282
11 Freon 12	3.05942	3.27632	3.21562	2.36426	2.67794	2.76369	2.77842	2.87652	11.287
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++	0.24847	+++++	+++++	0.21142	+++++	0.21608	0.22532	8.957
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	2.29055	2.66510	2.45507	1.86294	2.11102	2.22450	2.22846	2.26252	11.198
16 Freon 142b	+++++	2.21494	+++++	+++++	1.99853	+++++	2.13326	2.11558	5.166
17 Chloromethane	+++++	1.36154	1.27706	1.47452	1.54098	1.48564	1.15172	1.38191	10.686

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Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
23 Butane	+++++	0.28851	0.32218	0.23442	0.25771	0.32053		
	0.32700						0.29172	13.234
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 Vinyl Chloride	1.03235	1.38543	1.33980	1.02779	1.43056	1.36044		
	1.48737						1.29482	14.457
26 1,3-Butadiene	1.36266	1.35676	1.66814	1.01376	1.11619	1.39362		
	1.38379						1.32784	15.939
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Bromomethane	1.07507	0.87754	0.83998	0.73552	0.81667	0.85953		
	0.82008						0.86063	12.180
30 Chloroethane	+++++	0.56333	0.58191	0.46812	0.53951	0.56924		
	0.56323						0.54756	7.539
31 Isopentane	+++++	2.12567	2.10718	1.73630	1.73246	1.78484		
	1.76775						1.87570	10.000
32 Vinyl Bromide	+++++	1.07662	+++++	+++++	1.00150	+++++		
	1.12514						1.06776	5.834
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Pentane	+++++	3.01425	+++++	+++++	2.77805	+++++		
	3.11670						2.96967	5.848
35 Freon 11	3.28230	3.30945	3.28344	2.59335	2.83634	2.92938		
	2.88006						3.01633	9.234
36 1-Pentene	+++++	1.54797	+++++	+++++	1.33178	+++++		
	1.50123						1.46033	7.790
37 Dichlorofluoromethane	+++++	2.19019	+++++	+++++	2.07171	+++++		
	2.24814						2.17001	4.144

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
42 Ethanol	+++++	0.68364	0.57271	0.53533	0.55312	0.56899		
	0.57144						0.58087	9.012
43 1,2-Dichloro-1-fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
44 Ethyl Ether	+++++	0.44084	+++++	+++++	0.48016	+++++		
	0.54727						0.48942	10.996
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD	
	200.000 Level 8								
48 Freon 123	+++++	2.26916	+++++	+++++	2.20208	+++++			
	2.26953						2.24693	1.728	
49 Freon 113	2.11081	2.43754	2.49684	2.17295	2.22540	2.20360			
	2.21078						2.26542	6.347	
50 1,1-Dichloroethene	0.66187	0.72643	0.70930	0.50386	0.59001	0.63596			
	0.62654						0.63628	11.811	
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
52 Acetone	+++++	0.85481	0.74832	0.56929	0.63113	0.61830			
	0.61385						0.67262	15.975	
53 Iodomethane	+++++	+++++	+++++	+++++	1.18057	+++++			
	2.15236						1.66647	41.235	<-
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
56 Carbon Disulfide	+++++	3.44059	3.23572	2.33483	2.64570	2.76736			
	2.72429						2.85808	14.229	
57 2-Propanol	+++++	4.04809	2.97827	2.36229	2.71855	2.82693			
	2.57758						2.91862	20.290	

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Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD	
58 3-Chloropropene	+++++	0.47508	0.49234	0.34781	0.42810	0.44956	0.44077	0.43894	11.480	
59 Cyclopentene	+++++	1.80143	+++++	+++++	1.76260	+++++	2.05026	1.87143	8.340	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	6.56292	+++++	+++++	3.53239	+++++	3.88335	4.65956	35.576	<-
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	0.34506	+++++	0.27275	+++++	0.27769	0.29850	13.533	
64 Cyclopentane	+++++	0.53239	+++++	+++++	0.54614	+++++	0.61990	0.56614	8.313	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	1.81518	2.24311	2.18177	1.58594	1.84847	1.93398	1.89312	1.92880	11.612	
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 tert-Butyl alcohol	+++++	3.27568	3.09223	2.68189	2.80390	2.89440	2.86557	2.93561	7.282
72 Methyl tert-butyl ether	3.32671	3.13350	3.01093	2.78099	2.85151	2.87920	2.82723	2.97287	6.643
73 trans-1,2-Dichloroethene	0.63861	0.67567	0.69536	0.52999	0.62242	0.65640	0.64196	0.63720	8.346
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 1-Hexene	+++++	1.23810	+++++	+++++	1.08782	+++++	1.26360	1.19651	7.938
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
78 Hexane	2.38063	2.46653	2.30288	1.89561	2.13073	2.23032		
	2.20409						2.23012	8.314
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
82 1,1-Dichloroethane	2.44491	2.48002	2.60796	1.79256	2.21101	2.26070		
	2.24941						2.29237	11.505
83 Isopropyl ether	+++++	5.97051	5.60159	4.96856	5.37241	5.46002		
	5.31488						5.44800	6.088
84 1-Propanol	+++++	0.35798	+++++	+++++	0.30070	+++++		
	0.36081						0.33983	9.982
85 Chloroprene	+++++	2.42288	+++++	+++++	2.51633	+++++		
	2.87028						2.60316	9.066
86 Vinyl Acetate	+++++	0.30285	0.28673	0.22745	0.26375	0.27654		
	0.27342						0.27179	9.371
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
88 Ethyl-tert-butyl ether	+++++	4.63637	4.66667	4.15674	4.36120	4.44479	4.33909	4.43414	4.354
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	2.17307	+++++	+++++	2.04099	+++++	2.27741	2.16382	5.475
91 cis-1,2-Dichloroethene	0.42165	0.82083	0.73638	0.53857	0.66502	0.68378	0.67641	0.64895	20.215
92 2-Butanone	+++++	0.56152	0.58657	0.39834	0.47914	0.50910	0.49153	0.50437	13.178
93 Methyl Acrylate	+++++	3.35779	+++++	+++++	3.18740	+++++	3.77741	3.44087	8.825
94 Ethyl Acetate	+++++	0.23413	+++++	+++++	0.21060	+++++	0.23840	0.22771	6.576
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
99 Tetrahydrofuran	1.91584	1.89747	1.81932	1.37379	1.69042	1.76362		
	1.74146						1.74313	10.449
100 Chloroform	2.07993	2.44200	2.44346	1.77143	2.11235	2.21623		
	2.15510						2.17436	10.642
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 Cyclohexane	1.45316	1.45955	1.46245	1.31190	1.37526	1.37860		
	1.34535						1.39804	4.338
103 1,1,1-Trichloroethane	2.58998	2.77033	2.68597	2.31735	2.46422	2.43934		
	2.38168						2.52127	6.576
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
106 Carbon Tetrachloride	2.43434	2.83044	2.82135	2.59649	2.63795	2.66609		
	2.57468						2.65162	5.274
107 1,1-Dichloropropene	+++++	0.16479	+++++	+++++	0.15466	+++++		
	0.16380						0.16108	3.467
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
113 2,2,4-Trimethylpentane	8.26686	7.74013	7.72287	6.85699	7.34183	7.47157		
	7.31286						7.53045	5.847
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
115 Isobutanol	+++++	0.16428	+++++	+++++	0.10493	+++++		
	0.10421						0.12447	27.694
116 Benzene	0.84676	0.85502	0.86214	0.63586	0.70943	0.74270		
	0.74206						0.77057	11.214
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 tert-Amyl methyl ether	+++++	0.20972	0.20735	0.18630	0.19181	0.20160		
	0.19671						0.19891	4.550
120 1,2-Dichloroethane	0.43739	0.47164	0.53650	0.38980	0.44640	0.47181		
	0.46858						0.46030	9.644

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Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
121 Heptane	0.35455	0.30094	0.29361	0.25848	0.26504	0.27227	0.27061	0.28793	11.498
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 n-Butanol	+++++	0.64306	+++++	+++++	0.59938	+++++	0.64569	0.62938	4.133
125 Trichloroethene	0.36506	0.45068	0.43090	0.30510	0.35311	0.37655	0.36715	0.37836	12.903
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	0.49108	0.53811	0.54735	0.49301	0.48916	0.49626	0.48771	0.50610	5.002
128 Ethyl acrylate	+++++	0.05145	+++++	+++++	0.04814	+++++	0.05100	0.05020	3.579
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++	1.42087	+++++	+++++	1.26722	+++++	1.32248	1.33685	5.822

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Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
132 1,2-Dichloropropane	0.36990	0.40606	0.40077	0.33054	0.35020	0.36714	0.36055	0.36931	7.242
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Methyl Methacrylate	+++++	0.65555	+++++	+++++	0.65139	+++++	0.69742	0.66812	3.810
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 1,4-Dioxane	+++++	0.22325	0.20573	0.17265	0.18009	0.19067	0.18514	0.19292	9.628
137 Dibromomethane	+++++	0.59079	+++++	+++++	0.53174	+++++	0.56405	0.56220	5.260
138 Bromodichloromethane	0.58979	0.67563	0.69932	0.52196	0.58690	0.62926	0.62184	0.61781	9.590
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
143 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
144 cis-1,3-Dichloropropene	0.52807	0.56262	0.53426	0.43543	0.49525	0.52020		
	0.51687						0.51324	7.769
145 4-Methyl-2-pentanone	0.36846	0.34513	0.36644	0.32231	0.32761	0.34664		
	0.34010						0.34524	5.091
147 Toluene	1.11713	1.14453	1.11316	0.96876	0.99120	1.04319		
	1.04555						1.06050	6.300
148 Octane	+++++	0.34748	+++++	+++++	0.35485	+++++		
	0.36123						0.35452	1.941
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 trans-1,3-Dichloropropene	0.54009	0.56027	0.54426	0.43915	0.50115	0.50303		
	0.50932						0.51390	7.802
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
152 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,1,2-Trichloroethane	0.37698	0.41376	0.41092	0.36377	0.37342	0.38106	0.37838	0.38547	4.974
156 Tetrachloroethene	0.66335	0.69923	0.75887	0.64251	0.67257	0.68063	0.68154	0.68553	5.366
157 1,3-Dichloropropane	+++++	0.56022	+++++	+++++	0.50896	+++++	0.52268	0.53062	5.001
158 2-Hexanone	0.58190	0.50835	0.53576	0.45110	0.49365	0.49557	0.50003	0.50948	7.964
159 Butyl Acetate	+++++	0.14031	+++++	+++++	0.12287	+++++	0.12158	0.12825	8.155
160 Dibromochloromethane	0.80951	0.84261	0.88890	0.74106	0.80555	0.80553	0.81870	0.81598	5.460
161 1,2-Dibromoethane (EDB)	0.61489	0.67779	0.64597	0.56543	0.61237	0.63157	0.63249	0.62579	5.509
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
165 Chlorobenzene	1.04330	1.08127	1.01302	0.91563	0.96212	0.96086		
	0.97050						0.99239	5.700
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Ethyl Benzene	0.56541	0.50813	0.49315	0.49962	0.49303	0.48873		
	0.48526						0.50476	5.501
168 1,1,1,2-Tetrachloroethane	+++++	0.61196	+++++	+++++	0.62775	+++++		
	0.61144						0.61705	1.502
169 m,p-Xylene	0.66300	0.62356	0.64781	0.61221	0.60366	0.60350		
	0.60410						0.62255	3.847
170 Nonane	+++++	1.02114	+++++	+++++	1.01561	+++++		
	0.98951						1.00875	1.675
171 o-Xylene	0.53964	0.59514	0.58565	0.58667	0.58239	0.57629		
	0.57812						0.57770	3.097
172 Styrene	0.83815	0.93566	0.94100	0.94337	0.95085	0.94719		
	0.96234						0.93122	4.500
173 2-Heptanone	+++++	3.05749	+++++	+++++	3.16346	+++++		
	3.49457						3.23850	7.040

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Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
174 Bromoform	0.93746	1.02374	1.00074	0.94332	0.99649	1.00859	1.03728	0.99252	3.852
175 Cumene	1.78718	1.86154	1.83660	1.90476	1.84212	1.81959	1.82055	1.83891	2.017
176 Cyclohexanone	+++++	0.68093	+++++	+++++	0.56864	+++++	0.56752	0.60569	10.757
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	1.37910	+++++	+++++	1.14720	+++++	1.18680	1.23770	10.023
180 Bromobenzene	+++++	0.72890	+++++	+++++	0.71707	+++++	0.71968	0.72188	0.861
181 1,1,2,2-Tetrachloroethane	0.93758	1.00681	0.92874	0.95737	0.91135	0.89029	0.88164	0.93054	4.595
182 Propylbenzene	2.46828	2.23490	2.26004	2.28344	2.19403	2.14313	2.12637	2.24431	5.103
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 trans-1,4-Dichloro-2-butene	+++++	0.34809	+++++	+++++	0.37793	+++++	0.38724	0.37109	5.512

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
185 1,2,3-Trichloropropane	+++++	0.31377	+++++	+++++	0.28906	+++++	0.28450	0.29578	5.325
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++	1.10965	+++++	+++++	1.05981	+++++	0.96573	1.04507	6.993
188 4-Ethyltoluene	0.63517	0.59759	0.57942	0.61430	0.59169	0.58501	0.57446	0.59681	3.584
189 2-Chlorotoluene	+++++	0.54496	+++++	+++++	0.52292	+++++	0.50475	0.52421	3.841
190 1,3,5-Trimethylbenzene	0.79977	0.79154	0.80243	0.82236	0.81292	0.79442	0.78356	0.80100	1.643
191 4-Chlorotoluene	+++++	0.51395	+++++	+++++	0.51519	+++++	0.51394	0.51436	0.139
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
195 tert-Butylbenzene	+++++	1.55320	+++++	+++++	1.50416	+++++		
	1.56936						1.54224	2.202
196 1,2,4-Trimethylbenzene	0.69279	0.78157	0.70124	0.74147	0.72561	0.71536		
	0.71697						0.72500	4.073
197 Pentachloroethane	+++++	0.53731	+++++	+++++	0.58161	+++++		
	0.59098						0.56997	5.029
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
199 D-Limonene	+++++	0.79095	+++++	+++++	0.81956	+++++		
	0.82185						0.81079	2.124
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
203 sec-Butylbenzene	+++++	0.56422	+++++	+++++	0.51380	+++++		
	0.50852						0.52885	5.814
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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	200.000 Level 8							
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
206 bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
207 p-Cymene	+++++	1.98786	+++++	+++++	2.06042	+++++		
	2.06773						2.03867	2.166
208 1,3-Dichlorobenzene	1.33471	1.28243	1.24597	1.25287	1.22686	1.20767		
	1.21521						1.25224	3.535
209 1,4-Dichlorobenzene	1.36243	1.31992	1.29397	1.28076	1.25086	1.21915		
	1.22767						1.27925	4.020
210 1,2,3-Trimethylbenzene	+++++	0.76711	+++++	+++++	0.76094	+++++		
	0.75427						0.76077	0.844
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
212 alpha-Chlorotoluene	1.68271	1.73151	1.62249	1.62958	1.59727	1.56237		
	1.56543						1.62734	3.797
213 Butylbenzene	+++++	0.60040	+++++	+++++	0.57316	+++++		
	0.58046						0.58467	2.412
214 1,2-Dichlorobenzene	1.18214	1.26800	1.19716	1.21598	1.19274	1.17179		
	1.17798						1.20083	2.748

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD	
215 Undecane	+++++	2.47711	+++++	+++++	1.17538	+++++	1.22481	1.62577	45.376	<-
216 4-Ethyl-1,2-dimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
217 Hexachloroethane	+++++	0.43899	+++++	+++++	0.55604	+++++	0.58645	0.52716	14.769	
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
220 1,2,4,5-tetramethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
221 1,2-Dibromo-3-chloropropane	+++++	0.75568	+++++	+++++	0.74874	+++++	0.78443	0.76295	2.480	
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
224 1,3,5-Trichlorobenzene	+++++	0.96000	+++++	+++++	0.85552	+++++	1.19627	1.00393	17.389	

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Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
225 Dodecane	+++++	0.86682	+++++	+++++	0.63034	+++++		
	0.92559						0.80759	19.352
226 1,2,4-Trichlorobenzene	+++++	1.28040	1.27189	1.30535	1.26558	1.28443		
	1.33046						1.28968	1.874
227 Hexachlorobutadiene	+++++	1.14547	1.18805	1.12677	1.13689	1.15642		
	1.19660						1.15837	2.434
228 Naphthalene	+++++	1.95470	1.95467	2.07619	2.00561	1.96550		
	2.04536						2.00034	2.568
229 1,2,3-Trichlorobenzene	+++++	0.89617	+++++	+++++	1.37949	+++++		
	1.11284						1.12950	21.433
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 237 1,2-Dichloroethene (Total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
241 Total Volatile Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
242 TPH reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
243 TPH reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
244 TPH reference to Gasoline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
245 TPH reference MineralSpirits	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
246 TPH reference to Stoddard	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
247 TVOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
248 TVOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
249 TVOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
250 TVOC reference to Toluene-d8	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
251 NMOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
252 NMOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
253 NMOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
262 C5 - C6 Aliphatic ref C5 + C6	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
263 C6-C8 Aliphatic ref Heptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
264 C8-C10 Aliphatic ref Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 18:00 gdelacru
Curve Type : Average

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
	200.000 Level 8							
265 C10-C12 Aliphatic ref Dodecan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
267 C8-C10 Aromatic ref 1,2,3-TMB	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
269 C10-C12 Aromatic 1,2,4,5-TMB	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
270 C10-C12 Aromatic Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 117 1,2-Dichloroethane-d4	1.55756	1.47096	1.45645	1.51514	1.55074	1.59944		
	1.59838						1.53552	3.721
$ 146 Toluene-d8	0.95791	1.02427	1.00078	1.03050	0.98802	1.04596		
	1.01590						1.00905	2.925
$ 177 4-Bromofluorobenzene	0.79064	0.81266	0.78516	0.84343	0.82448	0.82416		
	0.84193						0.81749	2.804

Calibration History

Method : /chem/msdp.i/12jul16.b/p16q0407e.m
Start Cal Date: 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.50000		
07-APR-2016 15:49	AT12low	/chem/msdp.i/07apr16.b/p040709.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 2.00000		
17-JUN-2016 12:00	123TCB	/chem/msdp.i/17jun16.b/p061708.d
16-JUN-2016 21:04	AT2part1	/chem/msdp.i/16jun16.b/p061618.d
12-MAY-2016 12:09	Freoncrv	/chem/msdp.i/12may16.b/p051205.d
04-MAY-2016 11:28	ComboICAL	/chem/msdp.i/04may16.b/p050405.d
07-APR-2016 16:15	AT12mdl	/chem/msdp.i/07apr16.b/p040710.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 5.00000		
12-JUL-2016 13:35	AnitrileICAL	/chem/msdp.i/12jul16.b/p071206.d
07-APR-2016 16:41	AT12mdl	/chem/msdp.i/07apr16.b/p040711.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 20.00000		
07-APR-2016 17:05	AT12mdl	/chem/msdp.i/07apr16.b/p040712.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 50.00000		
12-JUL-2016 13:59	AnitrileICAL	/chem/msdp.i/12jul16.b/p071207.d
17-JUN-2016 12:24	123TCB	/chem/msdp.i/17jun16.b/p061709.d
16-JUN-2016 21:28	AT2part1	/chem/msdp.i/16jun16.b/p061619.d
12-MAY-2016 12:33	Freoncrv	/chem/msdp.i/12may16.b/p051206.d
04-MAY-2016 11:52	ComboICAL	/chem/msdp.i/04may16.b/p050406.d
07-APR-2016 17:30	AT12	/chem/msdp.i/07apr16.b/p040713.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 100.00000		
07-APR-2016 17:54	AT12	/chem/msdp.i/07apr16.b/p040714.d

Cal Level: 8 , Cal Amount: 200.00000		
12-JUL-2016 14:26	AnitrileICAL	/chem/msdp.i/12jul16.b/p071208.d
17-JUN-2016 12:50	123TCB	/chem/msdp.i/17jun16.b/p061710.d
16-JUN-2016 21:54	AT2part1	/chem/msdp.i/16jun16.b/p061620.d
12-MAY-2016 13:00	Freoncrv	/chem/msdp.i/12may16.b/p051207.d
04-MAY-2016 12:19	ComboICAL	/chem/msdp.i/04may16.b/p050407.d
07-APR-2016 18:21	AT12	/chem/msdp.i/07apr16.b/p040715.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.000		
12-JUL-2016 13:59	AnitrileICAL	/chem/msdp.i/12jul16.b/p071207.d
Ccal Level: 6 , Ccal Amount: 50.000		
12-JUL-2016 09:40	AT12	/chem/msdp.i/12jul16.b/p071202.d
Ccal Level: 6 , Ccal Amount: 50.000		
12-JUL-2016 13:08	AT1CCV	/chem/msdp.i/12jul16.b/p071205.d
Ccal Level: 6 , Ccal Amount: 50.000		
12-JUL-2016 13:59	AnitrileCCV	/chem/msdp.i/12jul16.b/p071207a.d

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 12-JUL-2016 14:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12jul16.b/p16q0407e.m
Cal Date : 12-Jul-2016 17:00 gdelacru
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/07apr16.b/p040709.d
Level 3: /chem/msdp.i/17jun16.b/p061708.d
Level 4: /chem/msdp.i/12jul16.b/p071206.d
Level 5: /chem/msdp.i/07apr16.b/p040712.d
Level 6: /chem/msdp.i/12jul16.b/p071207.d
Level 7: /chem/msdp.i/07apr16.b/p040714.d
Level 8: /chem/msdp.i/12jul16.b/p071208.d

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

gd 7/12/16

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
63 Acetonitrile	+++++	+++++	0.34506	+++++	0.27275	+++++	0.27769	0.29850	13.533

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 17-JUN-2016 12:50
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17jun16.b/p16q0407d.m
Cal Date : 17-Jun-2016 15:14 jwu
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/07apr16.b/p040709.d
Level 3: /chem/msdp.i/17jun16.b/p061708.d
Level 4: /chem/msdp.i/07apr16.b/p040711.d
Level 5: /chem/msdp.i/07apr16.b/p040712.d
Level 6: /chem/msdp.i/17jun16.b/p061709.d
Level 7: /chem/msdp.i/07apr16.b/p040714.d
Level 8: /chem/msdp.i/17jun16.b/p061710.d

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

JLW 6/17/16 SB 6/20/16

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	200.000 Level 8	___ RRF	% RSD
229 1,2,3-Trichlorobenzene	+++++	0.89617	+++++	+++++	1.37949	+++++	1.11284	1.12950	21.433

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 16-JUN-2016 21:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/16jun16.b/p16q0407d.m
Cal Date : 17-Jun-2016 15:12 jwu
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/07apr16.b/p040709.d
Level 3: /chem/msdp.i/16jun16.b/p061618.d
Level 4: /chem/msdp.i/07apr16.b/p040711.d
Level 5: /chem/msdp.i/07apr16.b/p040712.d
Level 6: /chem/msdp.i/16jun16.b/p061619.d
Level 7: /chem/msdp.i/07apr16.b/p040714.d
Level 8: /chem/msdp.i/16jun16.b/p061620.d

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

Jks 6/17/16 83 6/20/16

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD	
32 Vinyl Bromide	+++++ / 1.12514	1.07662	+++++	+++++	1.00150	+++++	1.06776	5.834	
61 Methyl Acetate	+++++ / 3.88335	6.56292	+++++	+++++	3.53239	+++++	4.65956	35.576	<-
85 Chloroprene	+++++ / 2.87028	2.42288	+++++	+++++	2.51633	+++++	2.60316	9.066	
184 trans-1,4-Dichloro-2-butene	+++++ / 0.38724	0.34809	+++++	+++++	0.37793	+++++	0.37109	5.512	
217 Hexachloroethane	+++++ / 0.58645	0.43899	+++++	+++++	0.55604	+++++	0.52716	14.769	
224 1,3,5-Trichlorobenzene	+++++ / 1.19627	0.96000	+++++	+++++	0.85552	+++++	1.00393	17.389	

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-APR-2016 15:49
End Cal Date : 12-MAY-2016 13:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/12may16.b/p16q0407c.m
Cal Date : 12-May-2016 15:10 jscarbro
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/07apr16.b/p040709.d
Level 3: /chem/msdp.i/12may16.b/p051205.d
Level 4: /chem/msdp.i/07apr16.b/p040711.d
Level 5: /chem/msdp.i/07apr16.b/p040712.d
Level 6: /chem/msdp.i/12may16.b/p051206.d
Level 7: /chem/msdp.i/07apr16.b/p040714.d
Level 8: /chem/msdp.i/12may16.b/p051207.d

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

JH 5/12/16 SB 5/13/16

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
1 Dimethyl Ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Freon 134a	+++++ / 0.72735	0.81733	+++++	+++++	0.76466	+++++	0.76978	5.873

Initial Calibration Narrative

P16Q0407E.m

A multi-point initial calibration was analyzed on MSD-P on 4/07/16.

ICAL: zero (0) out.

ICV: zero (0) out.

ICV File: P040717; 200mL: #2759-247B (50ppbv→50ppbv)
Ok for DoD and In-house control limits

A three point calibration was performed for the Combo special on 5/4/16:
2 out: Iodomethane @ 41% RSD with a raised RL of 50ppbv (2 point calib)
Undecane @ 45% RSD
No Acetonitrile due to quant ion coelution
No bis(2-chloroethyl) ether due to quant ion coelution

A three point calibration was performed for Freons on 5/12/16. **0 out.**

A three point calibration was performed for AT2 part A on 5/16/16. **0 out**

A three point calibration was performed for **1,2,3-Trichlorobenzene** on 5/17/16. **0 out**.

A three point calibration was performed for **Acetonitrile** on 7/12/16.

BFB Tune File:
A) P040708
B) P050401
C) P051201
D) P061601
E) P061701
F) P071201

MDL:
The current MDL was analyzed on 12/17/15

MSDP

BFB verification of 176/174 ratio: (161792/167104) *100 = 96.82%			
IS/Surr Std#	2789-22	Exp. Date:	6/19/2016
BCM	118,758		
1,4-DFB	479,982		
CB-d5	441,761		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	NA
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

Verified CCV vs ICAL mid-point(-40%): cb

Method: P16Q0407A

Use	File #	Enter/Scan Sample IDs	Canister#	Cert Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P040708	BFB Tune Check	2789-22	12	36ng	1.0mL	1.00	cb	cb	4/7/16	1515	cb	exp: 6/19/16
√	P040709	ICAL Level 2	2789-53	2	0.5ppbv (5ppbv)	20ml	1.00	tar	cb	4/7/16	1549	tar/ea	exp. 5/24/16
√	P040710	ICAL Level 3	2789-53	2	2ppbv (5ppbv)	80ml	1.00	tar	cb	4/7/16	1615	tar/ea	exp. 5/24/16
√	P040711	ICAL Level 4	2789-53	2	5ppbv (5ppbv)	200ml	1.00	tar	cb	4/7/16	1641	tar/ea	exp. 5/24/16
√	P040712	ICAL Level 5	2789-32	1	20ppbv (200ppbv)	20ml	1.00	tar	cb	4/7/16	1705	tar/ea	exp. 6/24/16
√	P040713	ICAL Level 6	2789-32	1	50ppbv (200ppbv)	50ml	1.00	tar	cb	4/7/16	1730	tar/ea	exp. 6/24/16 ; CCV
√	P040714	ICAL Level 7	2789-32	1	100ppbv (200ppbv)	100ml	1.00	tar	cb	4/7/16	1754	tar/ea	exp. 6/24/16
√	P040715	ICAL Level 8	2789-32	1	200ppbv (200ppbv)	200ml	1.00	tar	cb	4/7/16	1821	tar/ea	exp. 6/24/16
√	P040716	System Blank	34496	12	Humid	200ml	1.00	tar	tar	4/7/16	2008	tar/cb	
√	P040717	ICV	2759-247B	14	50ppbv (50ppbv)	200ml	1.00	tar	tar	4/7/16	2035	tar/cb	exp. 5/16/16

4/8/16

MSDP

BFB verification of 176/174 ratio: (165312/168384) *100=98.18%			
IS/Surr Std#	2789-99	Exp. Date:	8/2/2016
BCM	120,249		
1,4-DFB	493,488		
CB-d5	469,333		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	NA
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

Verified CCV vs ICAL mid-point(-40%): cb

Method: P16Q0407B

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P050401	BFB Tune Check	2789-99	12	36ng	1.0mL	1.00	gh	gh	5/4/16	0859	cb	exp: 8/2/16;
√	P050402	CCV	2789-86	13	50ppbv (200ppbv)	50ml	1.00	cb	gh	5/4/16	0937	cb	exp. 7/19/16; 0 out
√	P050403	LCS	2789-71	14	50ppbv (200ppbv)	50ml	1.00	cb	gh	5/4/16	1001	cb	exp. 7/13/16; 0 out
√	P050404	LCSD	2789-71	14	50ppbv (200ppbv)	50ml	1.00	cb	gh	5/4/16	1026	cb	exp. 7/13/16
√	P050405	ICAL Level 3	2789-105	4	2ppbv (5ppbv)	80ml	1.00	cb	cb	5/4/16	1128	cb	exp. 8/3/16; Combo
√	P050406	ICAL Level 6	2789-104	5	50ppbv (200ppbv)	50ml	1.00	cb	cb	5/4/16	1152	cb	exp. 8/3/16; Combo, CCV
√	P050407	ICAL Level 8	2789-104	5	200ppbv (200ppbv)	200ml	1.00	cb	cb	5/4/16	1219	cb	exp. 8/3/16; Combo
√	P050408	System Blank	34496	12	Humid	200ml	1.00	cb	cb	5/4/16	1254	cb	
√	P050409	Lab blank	34496	12	Humid	200ml	1.00	cb	cb	5/4/16	1328	cb	
	~~P050410~~	~~1604584-03A~~	~~33917~~	~~1~~	~~2.4 Hg->5 psi~~	~~30ml~~	~~9.71~~						
	P050411	1604584-06A	O0170	2	3.5 Hg->5 psi	40ml	7.58						
	P050412	1604578-05A	SH34218	3	4.5 Hg->5.1 psi	30ml	10.6						
	P050413	1604578-06A	34753	4	5.9 Hg->5 psi	20ml	16.7						
	P050414	1605010-01A	34734	5	3.9 Hg->4.8 psi	200ml	1.52						
	P050415	1605010-02A	425	6	1.8 Hg->5.1 psi	200ml	1.43						
	P050416	1605010-03A	6L1220	7	20.2 Hg->5 psi	200ml	4.10						
	P050417	1605010-04A	36039	8	5.3 Hg->5.1 psi	200ml	1.64						
	P050418	1605010-05A	34431	9	0 psi->5 psi	200ml	1.34						

CB
5/4/16

5/4/16

MSDP

BFB verification of 176/174 ratio: (147072/142336) *100=96.77%			
IS/Surr Std#	2789-99	Exp. Date:	8/2/2016
BCM	112,584		
1,4-DFB	443,624		
CB-d5	420,265		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	NA
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

Verified CCV vs ICAL mid-point(-40%): jg

Method: P16Q0407C

Use	File #	Enter/Scan Sample ID#	Canister#	Cert Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P051201	BFB Tune Check	2789-99	12	36ng	1.0mL	1.00	jg	jg	5/12/16	0931	jg	exp: 8/2/16;
√	P051202	CCV	2789-86	13	50ppbv (200ppbv)	50ml	1.00	jg	jg	5/12/16	1009	jg	exp. 7/19/16; 0 out
√	P051203	LCS	2789-71	14	50ppbv (200ppbv)	50ml	1.00	jg	jg	5/10/16	1034	jg	exp. 8/4/16; 0 out
√	P051204	LCSD	2789-71	14	50ppbv (200ppbv)	50ml	1.00	jg	jg	5/10/16	1058	jg	exp. 8/4/16
√	P051205	ICAL Level #3	2789-129	1	2.0ppbv (5.0ppbv)	80ml	1.00	jg	jg	5/10/16	1209	jg	exp. 8/4/16
√	P051206	ICAL Level #6	2789-115	2	50ppbv (200ppbv)	50ml	1.00	jg	jg	5/10/16	1233	jg	exp. 8/4/16; CCV
√	P051207	ICAL Level #8	2789-115	2	200ppbv (200ppbv)	200ml	1.00	jg	jg	5/10/16	1300	jg	exp. 8/4/16
X	P051208	System blank	34496	12	Humid	200ml	1.00	jg	jg	5/10/16	1334	jg	
√	P051209	Lab blank	34496	12	Humid	200ml	1.00	jg	jg	5/10/16	1409	jg	
	~~P051210~~	~~1605206-01A~~	~~1L Bag~~	~~3~~	~~Exhaust~~	~~100ml~~	~~2.00~~		~~jg~~	~~5/10/16~~			
	P051211	1605207-03A	1L Bag	4	EUZ2-2	200ml	1.00		jg	5/10/16			
	P051212	1605207-05A	1L Bag	5	TMP3-1	100ml	2.00		jg	5/10/16			
	P051213	1605207-01	1L Bag	6	EUBL-3	20ml	10.0		jg	5/10/16			
	P051214	1605022-03A	33716	7	0.8 Hg->15 psi	50ml	8.30		jg	5/10/16			
	P051215	1605022-03A	33716	7	0.8 Hg->15 psi	50ml	8.30		jg	5/10/16			
	P051216	1605052-01A	35663	8	2.2 Hg->15.1 psi	50ml	8.8		jg	5/10/16			
	P051217	1605052-03A	37858	9	3.9 Hg->15 psi	20ml	23.20		jg	5/10/16			
	P051218	1605052-07A	36448	10	5.1 Hg->14.9 psi	100ml	4.85		jg	5/10/16			
	P051219	1605069-01A	94909	11	5.5 Hg->15.5 psi	200ml	2.5		jg	5/10/16			

CH 5/12/16

MSDP

BFB verification of 176/174 ratio: (129608/136128) *100=95.21%			
*100	2789-163	Exp. Date:	9/3/2016
BCM	104,544		
1,4-DFB	423,236		
CB-d5	390,160		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	9.34 X 10-06
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

Verified CCV vs ICAL mid-point(-40%): jg

Method: P16Q0407C

Use	File #	Enter/Scan Sample ID#	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P061601	BFB Tune Check	2789-163	12	36ng	1.0mL	1.00	jg	jg	6/16/16	0839	jg	exp: 9/3/16;
√	P061602	CCV	2789-160	13	50ppbv (200ppbv)	50ml	1.00	jg	jg	6/16/16	0916	jg	exp. 9/3/16; 1 out
√	P061603	LCS	2789-110A	14	50ppbv (100ppbv)	100ml	1.00	jg	jg	6/16/16	1001	jg	exp. 8/4/16; 0 out
√	P061604	LCSD	2789-110A	14	50ppbv (100ppbv)	100ml	1.00	jg	jg	6/16/16	1025	jg	
X	P061605	System Blank	403	12	Humid	200ml	1.00	jg	jg	6/16/16	1123	jg	>RL
√	P061606	Lab Blank	403	12	Humid	200ml	1.00	jg	jg	6/16/16	1157	jg	<Rl
√	P061607	1606287-04A	9424	1	22.5 Hg->5 psi	200ml	1.00	gh	jg	6/16/16	1456	gh	TB; df=1.00; >RL
√	P061608	1606287-03A	34016	2	6.5 Hg->5 psi	200ml	1.71	gh	jg	6/16/16	1522	gh	
√	P061609	1606287-02A	6L1259	3	5.5 Hg->5 psi	200ml	1.64	gh	jg	6/16/16	1548	gh	
√	P061610	1606287-01A	N0632	4	7.0 Hg->5 psi	200ml	1.75	gh	jg	6/16/16	1615	gh	
√	P061611	1606258-01A	1L1641	5	3.9 Hg->14.6 psi	20ml	22.9	gh	jg	6/16/16	1639	gh	dil tc
√	P061612	1606258-02A	1L2725	6	2.4 Hg->14.9 psi	15ml	29.2	gh	jg	6/16/16	1702	gh	dil tc
√	P061613	1606258-03A	37858	7	5.1 Hg->14.9 psi	20ml	24.3	gh	jg	6/16/16	1726	gh	dil tc
√	P061614	1606333-01A	34661	8	1 Hg->15 psi	200ml	2.09	gh	jg	6/16/16	1752	gh	
√	P061615	1606333-02A	37678	9	1.4 Hg->14.9 psi	200ml	2.11	gh	jg	6/16/16	1818	gh	
√	P061616	1606333-04A	15757	10	1 Hg->14.6 psi	200ml	2.06	gh	jg	6/16/16	1844	gh	
√	P061617	1606333-03A	37721	11	1.4 Hg->14.8 psi	200ml	2.10	gh	jg	6/16/16	1911	gh	
√	P061618	ICAL Level #3	2789-186	10	2.0ppbv(5.0ppbv)	80ml	1.00	gh	gh	6/16/16	2104	JG	exp.7/28/16; AT2
√	P061619	ICAL Level #6	2789-185	11	50ppbv(200ppbv)	50ml	1.00	gh	gh	6/16/16	2128	JG	exp.7/28/16; AT2
√	P061620	ICAL Level#8	2789-185	11	200ppbv(200ppbbv)	200ml	1.00	gh	gh	6/16/16	2154	JG	exp.7/28/16; AT2

6/17/16

MSDP

BFB verification of 176/174 ratio: () *100=%			
*100	2789-163	Exp. Date:	9/3/2016
BCM	103,909		
1,4-DFB	395,331		
CB-d5	363,807		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	9.34 X 10-06
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

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

Method: P16Q0407D

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
V	P061701	BFB Tune Check	2789-163	12	36ng	1.0mL	1.00	jg	jg	6/17/16	0746	jg	exp: 9/3/16; scan 1143; apex +1
X	P061702	CCV	2789-160	13	50ppbv (200ppbv)	50ml	1.00	jcw	jg	6/17/16	0832	jcw	exp. 9/3/16; wrong leg loaded
X	P061703	LCS	2789-110B	14	25ppbv (100ppbv)	100ml	1.00	jcw	jcw	6/17/16	0921	jcw	exp. 8/4/16; 3 out, can't use for DOD Wos
V	P061704	LCS	2789-110B	14	25ppbv (100ppbv)	100ml	1.00	jcw	jcw	6/17/16	0945	jcw	exp. 8/4/16; 0 out
V	P061705	CCV	2789-160	13	50ppbv (200ppbv)	50ml	1.00	jcw	jcw	6/17/16	1021	jcw	exp. 9/3/16; 1 out
V	P061706	LCSD	2789-110B	14	50ppbv (50ppbv)	200mL	1.00	jcw	jcw	6/17/16	1047	jcw	exp. 8/4/16; 1 out
V	P061707	CCV sp	2789-115	5	50ppbv(200ppbv)	50ml	1.00	jcw	jcw	6/17/16	1134	jcw	AT1; exp. 8/4/16
V	P061708	ICAL Level #3	2789-196	1	2.0ppbv(5.0ppbv)	80ml	1.00	jcw	jcw	6/17/16	1200	jcw	1,2,3 TCB; exp.9/16/16
V	P061709	ICAL Level #6	2789-194	2	50ppbv(200ppbv)	50ml	1.00	jcw	jcw	6/17/16	1224	jcw	1,2,3 TCB; exp.9/16/16; CCV
V	P061710	ICAL Level #8	2789-194	2	200ppbv(200ppbv)	200ml	1.00	jcw	jcw	6/17/16	1250	jcw	1,2,3 TCB; exp.9/16/16
V	P061711	LCS sp	2789-127	3	50ppbv (200ppbv)	50ml	1.00	jcw	jcw	6/17/16	1315	jcw	AT1; exp. 8/9/16
X	P061712	LCS sp	2789-195	4	50ppbv(200ppbv)	50ml	1.00	jcw	jcw	6/17/16	1340	jcw	1,2,3 TCB; exp. 9/16/16
V	P061713	LCS sp	2789-195	4	50ppbv(200ppbv)	50ml	1.00	jcw	jcw	6/17/16	1424	jcw	1,2,3 TCB; exp. 9/16/16
	~~P061714~~	~~System Blank~~	~~403~~	~~12~~	~~Humid~~	~~200ml~~	~~1.00~~		~~jcw~~	~~6/17/16~~			~~>RL~~
		Lab Blank	403	12	Humid	200ml	1.00		jcw	6/17/16			<RL

6/17/16

MSDP

BFB verification of 176/174 ratio: (118194/121) *100=97.19%			
*100	2789-205	Exp. Date:	9/29/2016
BCM	92,780		
1,4-DFB	396,495		
CB-d5	359,757		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	9.34 X 10-06
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

Verified CCV vs ICAL mid-point(-40%): gh

Method: P16Q0407E

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P071201	BFB Tune Check	2789-205	12	36ng	1.0mL	1.00	gd	gd	7/12/16	0806	gd	exp: 9/29/16;
√	P071202	CCV	2789-84A	13	50ppbv (100ppbv)	100ml	1.00	gd	gd	7/12/16	0940	gd	exp. 7/19/16; 1 out
√	P071203	LCS	2789-108	14	50ppbv (200ppbv)	50ml	1.00	gd	gd	7/12/16	1032	gd	exp. 8/4/16; 5 out
√	P071204	LCSD	2789-108	14	50ppbv (200ppbv)	50ml	1.00	gd	gd	7/12/16	1131	gd	exp. 8/4/16;
√	P071205	CCVsp	2789-115A	1	50ppbv (100ppbv)	100ml	1.00	gd	gd	7/12/16	1308	gd	exp. 8/4/16; 0 out.
√	P071206	ICAL level 4	2789-151	2	5.0ppbv	200ml	1.00	gd	gd	7/12/16	1335	gd	exp: 8/19/16
√	P071207	ICAL level 6	2789-132	3	50ppbv (200ppbv)	50ml	1.00	gd	gd	7/12/16	1359	gd	exp: 8/11/16, CCV
√	P071208	ICAL level 8	2789-132	3	200ppbv	200ml	1.00	gd	gd	7/12/16	1426	gd	
√	P071209	TPHg verification	2789-188	9	50ppbv (100ppbv)	100ml	1.00	gd	gd	7/12/16	1450	gd	exp: 9/15/16
√	P071210	TPHg Calib	2789-190	4	500ppbv (2500ppbv)	40ml	1.00	gd	gd	7/12/16	1514	gd	exp: 9/15/16
	~~P071211~~	~~CCVsp~~	~~2789-104A~~	~~5~~	~~50ppbv (100ppbv)~~	~~100ml~~	~~1.00~~	~~gh~~	~~gd~~	~~7/12/16~~	~~1558~~	~~gh~~	~~exp: 8/3/16~~
	P071212	Lab Blank	33555	12	Humid	200ml	1.00	gh	gd	7/12/16	1625	gh	

gd 7/12/16

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

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

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

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040717.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 07-APR-2016 20:35
Operator : tar Inst ID: msdp.i
Smp Info : 200ml 2759-247B
Misc Info : 50ppbv (50ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 08-Apr-2016 08:40 cbond Quant Type: ISTD
Cal Date : 07-APR-2016 17:30 Cal File: p040713.d
Als bottle: 14 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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.456	5.449 (1.000)	130	123889	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	95864			49.40- 109.40	77.38
5.456	5.449 (1.000)	49	219975			153.31- 213.31	177.56
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.344 (1.000)	114	489875	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	68397			0.00- 43.38	13.96
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.780 (1.000)	117	464230	25.0000		80.00- 120.00	100.00
8.779	8.780 (1.000)	82	237867			21.26- 81.26	51.24
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.097)	65	186429	24.4999	24.500	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	104956			25.58- 85.58	56.30
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.554	7.555 (1.191)	98	506553	25.6193	25.619	80.00- 120.00	100.00
7.554	7.555 (1.191)	70	51984			0.00- 40.37	10.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8 (continued)							
7.554	7.555 (1.191)	100	336529			38.69- 98.69	66.44
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.768	9.761 (1.113)	174	391810	25.8106	25.810	80.00- 120.00	100.00
9.768	9.761 (1.113)	95	349686			59.95- 119.95	89.25
9.768	9.761 (1.113)	176	370632			67.47- 127.47	94.59
9 Propylene					CAS #: 115-07-1		
1.493	1.479 (0.274)	41	309624	50.4018	50.402	80.00- 120.00	100.00
1.493	1.479 (0.274)	42	205168			35.34- 95.34	66.26
1.493	1.479 (0.274)	39	223111			42.39- 102.39	72.06
11 Freon 12					CAS #: 75-71-8		
1.521	1.507 (0.279)	85	743413	52.1516	52.152	80.00- 120.00	100.00
1.521	1.507 (0.279)	87	237615			2.43- 62.43	31.96
15 Freon 114					CAS #: 76-14-2		
1.646	1.633 (0.302)	135	602743	53.7582	53.758	80.00- 120.00	100.00
1.646	1.633 (0.302)	137	195867			1.44- 61.44	32.50
17 Chloromethane					CAS #: 74-87-3		
1.730	1.717 (0.317)	50	275567	40.2396	40.240	80.00- 120.00	100.00
1.730	1.717 (0.317)	52	78401			1.49- 61.49	28.45
23 Butane					CAS #: 106-97-8		
1.800	1.787 (0.330)	58	88616	61.2982	61.298	80.00- 120.00	100.00
1.800	1.787 (0.330)	43	626896			835.45- 895.45	707.43
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.829 (0.335)	62	412746	64.3249	64.325	80.00- 120.00	100.00
1.828	1.829 (0.335)	64	107656			0.00- 54.54	26.08
26 1,3-Butadiene					CAS #: 106-99-0		
1.856	1.843 (0.340)	54	345792	52.5501	52.550	80.00- 120.00	100.00
1.856	1.843 (0.340)	39	461573			103.78- 163.78	133.48
29 Bromomethane					CAS #: 74-83-9		
2.211	2.211 (0.405)	94	206931	48.5196	48.520	80.00- 120.00	100.00
2.218	2.211 (0.407)	96	197085			66.47- 126.47	95.24
30 Chloroethane					CAS #: 75-00-3		
2.325	2.318 (0.426)	64	145460	53.6072	53.607	80.00- 120.00	100.00
2.325	2.318 (0.426)	66	44868			0.00- 59.53	30.85
2.325	2.318 (0.426)	49	60669			11.61- 71.61	41.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.347	2.340 (0.430)	43	456213	49.0806	49.081	80.00- 120.00	100.00
2.347	2.340 (0.430)	57	279184			31.35- 91.35	61.20
35 Freon 11					CAS #: 75-69-4		
2.576	2.569 (0.472)	101	780619	52.2235	52.223	80.00- 120.00	100.00
2.576	2.569 (0.472)	103	503838			35.01- 95.01	64.54
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	149567	51.9593	51.959	80.00- 120.00	100.00
2.891	2.884 (0.530)	43	29385			0.00- 51.15	19.65
2.884	2.884 (0.529)	46	58335			7.97- 67.97	39.00
49 Freon 113					CAS #: 76-13-1		
3.221	3.214 (0.590)	151	572278	50.9759	50.976	80.00- 120.00	100.00
3.221	3.214 (0.590)	153	356710			33.63- 93.63	62.33
3.221	3.214 (0.590)	101	592040			73.82- 133.82	103.45
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.242 (0.596)	98	162611	51.5710	51.571	80.00- 120.00	100.00
3.249	3.242 (0.596)	96	253582			130.56- 190.56	155.94
3.242	3.242 (0.594)	61	557515			327.82- 387.82	342.85
52 Acetone					CAS #: 67-64-1		
3.393	3.386 (0.622)	58	153870	46.1629	46.163	80.00- 120.00	100.00
3.393	3.386 (0.622)	43	576714			353.98- 413.98	374.80
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.472 (0.639)	76	632233	44.6384	44.638	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.651)	45	731624	50.5843	50.584	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	152594			0.00- 50.28	20.86
3.550	3.550 (0.651)	59	24008			0.00- 33.15	3.28
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	105160	48.3448	48.345	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	490143			425.37- 485.37	466.09
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.901 (0.716)	49	490181	51.2833	51.283	80.00- 120.00	100.00
3.908	3.901 (0.716)	84	221893			14.95- 74.95	45.27
3.908	3.901 (0.716)	51	147051			0.42- 60.42	30.00
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.124 (0.756)	73	705775	47.9067	47.907	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
4.123	4.124 (0.756)	57	241523			2.37- 62.37	34.22
4.123	4.124 (0.756)	41	250720			4.37- 64.37	35.52
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.760)	98	144169	45.6566	45.656	80.00- 120.00	100.00
4.145	4.145 (0.760)	61	424434			269.90- 329.90	294.40
4.145	4.145 (0.760)	96	228179			127.45- 187.45	158.27
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.800)	57	559104	50.5907	50.591	80.00- 120.00	100.00
4.367	4.367 (0.800)	43	405388			40.99- 100.99	72.51
4.374	4.367 (0.802)	86	60088			0.00- 40.81	10.75
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.850)	63	569646	50.1449	50.145	80.00- 120.00	100.00
4.639	4.639 (0.850)	65	164743			0.00- 58.37	28.92
86 Vinyl Acetate					CAS #: 108-05-4		
4.682	4.682 (0.858)	86	64280	47.7253	47.725	80.00- 120.00	100.00
4.682	4.682 (0.858)	43	1138678			1833.17-1893.17	1771.42
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.957)	98	193266	60.0966	60.097	80.00- 120.00	100.00
5.219	5.219 (0.957)	96	301014			124.70- 184.70	155.75
5.219	5.219 (0.957)	61	518358			233.87- 293.87	268.21
92 2-Butanone					CAS #: 78-93-3		
5.248	5.241 (0.962)	72	121787	48.7261	48.726	80.00- 120.00	100.00
5.241	5.241 (0.961)	43	794346			611.89- 671.89	652.24
5.248	5.241 (0.962)	57	55771			17.72- 77.72	45.79
99 Tetrahydrofuran					CAS #: 109-99-9		
5.441	5.442 (0.997)	42	439109	50.8333	50.833	80.00- 120.00	100.00
5.449	5.442 (0.999)	71	109884			0.00- 53.97	25.02
5.441	5.442 (0.997)	72	111902			0.00- 55.92	25.48
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	553820	51.3976	51.398	80.00- 120.00	100.00
5.513	5.513 (1.010)	85	364670			35.28- 95.28	65.85
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	345486	49.8674	49.867	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	583513			138.21- 198.21	168.90
5.628	5.628 (1.032)	41	360549			72.24- 132.24	104.36

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.034)	97	600608	48.0704	48.070	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	386550			33.83- 93.83	64.36
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.055)	119	658276	50.0959	50.096	80.00- 120.00	100.00
5.757	5.757 (1.055)	117	695921			74.93- 134.93	105.72
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	1829267	49.0187	49.019	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	594059			2.51- 62.51	32.48
5.957	5.964 (1.092)	41	555591			0.00- 58.92	30.37
116 Benzene					CAS #: 71-43-2		
5.971	5.972 (0.941)	78	736509	48.7777	48.778	80.00- 120.00	100.00
5.971	5.972 (0.941)	77	185897			0.00- 54.04	25.24
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.050 (0.955)	62	462145	51.2376	51.238	80.00- 120.00	100.00
6.057	6.050 (0.955)	64	142226			0.59- 60.59	30.78
121 Heptane					CAS #: 142-82-5		
6.129	6.129 (0.966)	71	281797	49.9466	49.946	80.00- 120.00	100.00
6.129	6.129 (0.966)	43	699091			231.64- 291.64	248.08
6.129	6.129 (0.966)	57	361707			103.28- 163.28	128.36
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	391056	52.7453	52.745	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	435053			82.18- 142.18	111.25
6.537	6.537 (1.030)	97	253874			33.62- 93.62	64.92
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	485586	48.9650	48.965	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	231768			16.98- 76.98	47.73
6.645	6.645 (1.047)	55	556263			83.20- 143.20	114.56
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.767	6.767 (1.067)	63	372091	51.4179	51.418	80.00- 120.00	100.00
6.767	6.767 (1.067)	62	267237			41.70- 101.70	71.82
6.767	6.767 (1.067)	41	262770			41.13- 101.13	70.62
136 1,4-Dioxane					CAS #: 123-91-1		
6.852	6.853 (1.080)	88	185028	48.9456	48.946	80.00- 120.00	100.00
6.852	6.853 (1.080)	58	167856			62.32- 122.32	90.72
6.852	6.853 (1.080)	57	60234			3.20- 63.20	32.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane						CAS #: 75-27-4	
6.989	6.989 (1.102)	83	639512	52.8258	52.826	80.00- 120.00	100.00
6.996	6.989 (1.103)	85	417706			35.75- 95.75	65.32
144 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.368	7.368 (1.161)	75	484800	48.2052	48.205	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	155552			0.75- 60.75	32.09
7.368	7.368 (1.161)	39	377265			45.96- 105.96	77.82
145 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.483	7.483 (1.180)	58	323094	47.7594	47.759	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	980229			264.26- 324.26	303.39
7.483	7.483 (1.180)	85	114592			3.08- 63.08	35.47
147 Toluene						CAS #: 108-88-3	
7.612	7.612 (1.200)	91	1032352	49.6787	49.679	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	601011			28.28- 88.28	58.22
150 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
7.841	7.841 (0.893)	75	473224	49.5905	49.590	80.00- 120.00	100.00
7.848	7.841 (0.894)	77	148196			0.54- 60.54	31.32
7.841	7.841 (0.893)	39	346687			41.71- 101.71	73.26
155 1,1,2-Trichloroethane						CAS #: 79-00-5	
7.999	7.999 (0.911)	97	361669	50.5276	50.528	80.00- 120.00	100.00
7.999	7.999 (0.911)	99	223102			33.23- 93.23	61.69
7.999	7.999 (0.911)	83	306287			57.40- 117.40	84.69
156 Tetrachloroethene						CAS #: 127-18-4	
8.049	8.042 (0.917)	166	646306	50.7714	50.771	80.00- 120.00	100.00
8.042	8.042 (0.916)	129	415031			34.91- 94.91	64.22
8.049	8.042 (0.917)	131	409052			34.35- 94.35	63.29
158 2-Hexanone						CAS #: 591-78-6	
8.170	8.163 (0.931)	58	455967	48.1962	48.196	80.00- 120.00	100.00
8.170	8.163 (0.931)	43	951749			175.82- 235.82	208.73
8.170	8.163 (0.931)	100	74209			0.00- 45.85	16.28
160 Dibromochloromethane						CAS #: 124-48-1	
8.314	8.307 (0.947)	129	768285	50.7048	50.705	80.00- 120.00	100.00
8.314	8.307 (0.947)	127	592916			48.31- 108.31	77.17
161 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.428	8.421 (0.960)	107	592011	50.9458	50.946	80.00- 120.00	100.00
8.428	8.421 (0.960)	109	555160			65.63- 125.63	93.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene						CAS #: 108-90-7	
8.808	8.801 (1.003)	112	910333	49.3999	49.400	80.00- 120.00	100.00
8.808	8.801 (1.003)	114	291484			1.89- 61.89	32.02
8.801	8.801 (1.002)	77	471721			22.59- 82.59	51.82
167 Ethyl Benzene						CAS #: 100-41-4	
8.858	8.858 (1.009)	106	452282	48.2538	48.254	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	1403572			277.26- 337.26	310.33
169 m,p-Xylene						CAS #: 108-38-3	
8.958	8.959 (1.020)	106	561560	48.5767	48.577	80.00- 120.00	100.00
8.958	8.959 (1.020)	91	1116022			167.63- 227.63	198.74
171 o-Xylene						CAS #: 95-47-6	
9.295	9.295 (1.059)	106	539522	50.2938	50.294	80.00- 120.00	100.00
9.295	9.295 (1.059)	91	1117599			178.91- 238.91	207.15
172 Styrene						CAS #: 100-42-5	
9.317	9.310 (1.061)	104	856121	49.5095	49.509	80.00- 120.00	100.00
9.317	9.310 (1.061)	78	402345			15.94- 75.94	47.00
174 Bromoform						CAS #: 75-25-2	
9.510	9.503 (1.083)	173	1263751	68.5693	68.569	80.00- 120.00	100.00
9.510	9.503 (1.083)	171	648652			21.13- 81.13	51.33
175 Cumene						CAS #: 98-82-8	
9.589	9.582 (1.092)	105	1693091	49.5824	49.582	80.00- 120.00	100.00
9.589	9.582 (1.092)	120	467214			0.00- 57.59	27.60
9.582	9.582 (1.091)	51	224993			0.00- 43.20	13.29
181 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5	
9.890	9.883 (1.126)	83	824257	47.7017	47.702	80.00- 120.00	100.00
9.890	9.883 (1.126)	85	524594			35.30- 95.30	63.64
182 Propylbenzene						CAS #: 103-65-1	
9.933	9.918 (1.131)	91	2003664	48.0782	48.078	80.00- 120.00	100.00
9.933	9.918 (1.131)	120	489786			0.00- 54.24	24.44
9.933	9.918 (1.131)	105	72880			0.00- 33.65	3.64
188 4-Ethyltoluene						CAS #: 622-96-8	
10.026	10.019 (1.142)	120	540416	48.7643	48.764	80.00- 120.00	100.00
10.026	10.019 (1.142)	105	1712949			283.78- 343.78	316.97
190 1,3,5-Trimethylbenzene						CAS #: 108-67-8	
10.083	10.069 (1.148)	120	730691	49.1256	49.126	80.00- 120.00	100.00
10.083	10.069 (1.148)	105	1479690			172.79- 232.79	202.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.412	10.391 (1.186)	120	664826	49.3830	49.383	80.00- 120.00	100.00
10.412	10.391 (1.186)	105	1411081			186.10- 246.10	212.25
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.692	10.678 (1.218)	146	1130541	48.6187	48.619	80.00- 120.00	100.00
10.692	10.678 (1.218)	148	726897			34.63- 94.63	64.30
10.692	10.678 (1.218)	111	410176			7.17- 67.17	36.28
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.778	10.757 (1.228)	146	1131796	47.6451	47.645	80.00- 120.00	100.00
10.778	10.757 (1.228)	148	717849			33.55- 93.55	63.43
10.771	10.757 (1.227)	111	394873			4.50- 64.50	34.89
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.892	10.871 (1.241)	91	1457078	48.2183	48.218	80.00- 120.00	100.00
10.892	10.871 (1.241)	126	334444			0.00- 52.80	22.95
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.107	11.079 (1.265)	146	1084204	48.6225	48.622	80.00- 120.00	100.00
11.107	11.079 (1.265)	148	683540			33.56- 93.56	63.05
11.100	11.079 (1.264)	111	406840			7.11- 67.11	37.52
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.518	12.483 (1.426)	180	1142053	47.6881	47.688	80.00- 120.00	100.00
12.518	12.483 (1.426)	182	1092012			66.05- 126.05	95.62
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.612	12.576 (1.437)	225	1041253	48.4080	48.408	80.00- 120.00	100.00
12.612	12.576 (1.437)	223	654538			31.76- 91.76	62.86
228 Naphthalene					CAS #: 91-20-3		
12.783	12.748 (1.456)	128	212558	5.72244	5.722	80.00- 120.00	100.00
12.783	12.748 (1.456)	127	26139			0.00- 43.45	12.30

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p040717.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: tar
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 50ppbv (50ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	123889	4.32
123 1,4-Difluorobenze	479982	287989	671975	489875	2.06
163 Chlorobenzene-d5	441761	265057	618465	464230	5.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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: 08-Apr-2016 08:46

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 07apr16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: ICV
Level: LOW
Operator: tar
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 50ppbv (50ppbv)

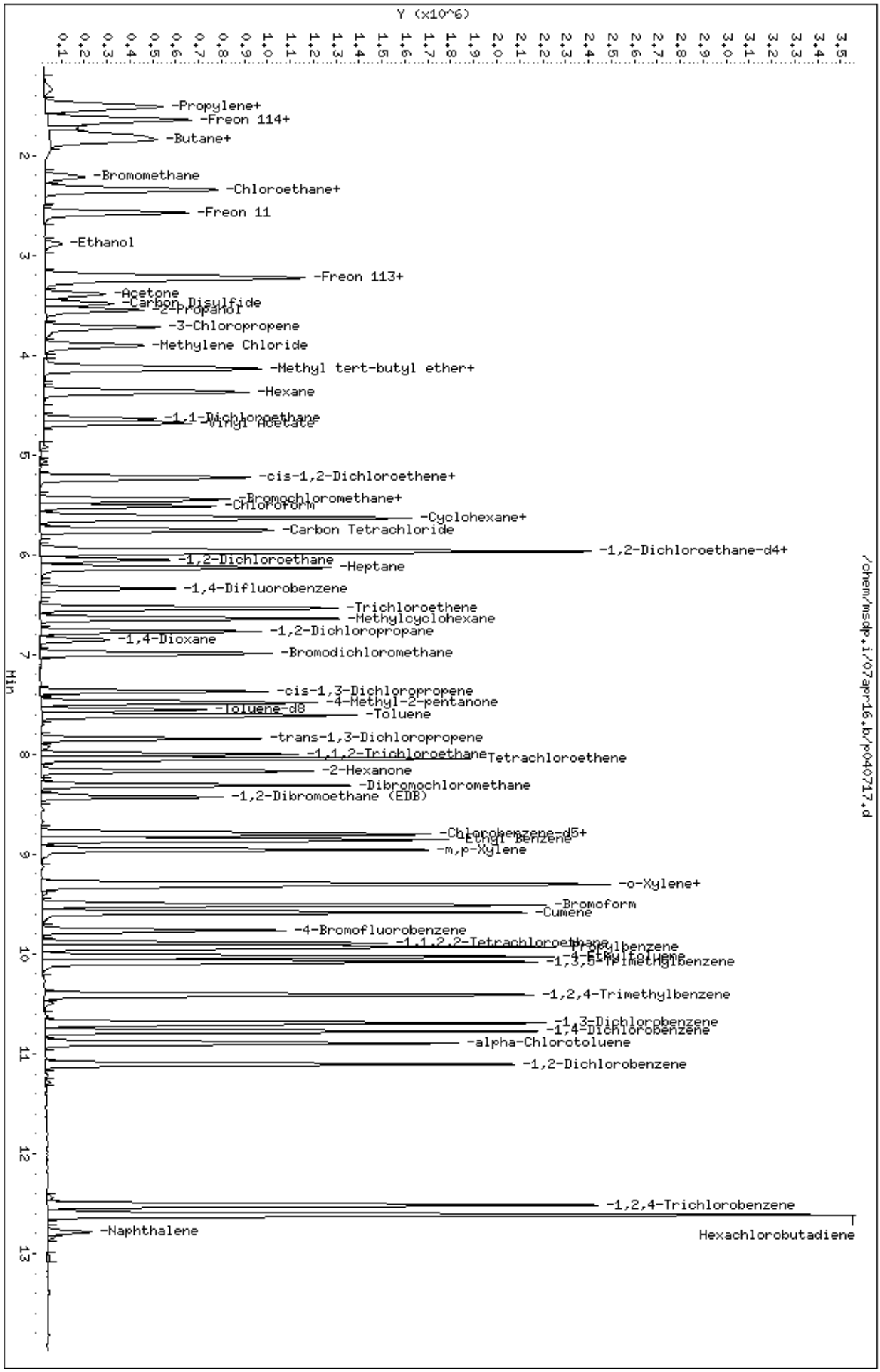
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	50.402	100.80	60-140
11 Freon 12	50.000	52.152	104.30	70-130
15 Freon 114	50.000	53.758	107.52	70-130
17 Chloromethane	50.000	40.240	80.48	70-130
23 Butane	50.000	61.298	122.60	60-140
25 Vinyl Chloride	50.000	64.325	128.65	70-130
26 1,3-Butadiene	50.000	52.550	105.10	70-130
29 Bromomethane	50.000	48.520	97.04	70-130
30 Chloroethane	50.000	53.607	107.21	70-130
31 Isopentane	50.000	49.081	98.16	60-140
35 Freon 11	50.000	52.223	104.45	70-130
42 Ethanol	50.000	51.959	103.92	70-130
49 Freon 113	50.000	50.976	101.95	70-130
50 1,1-Dichloroethene	50.000	51.571	103.14	70-130
52 Acetone	50.000	46.163	92.33	70-130
56 Carbon Disulfide	50.000	44.638	89.28	70-130
57 2-Propanol	50.000	50.584	101.17	70-130
58 3-Chloropropene	50.000	48.345	96.69	70-130
66 Methylene Chloride	50.000	51.283	102.57	70-130
72 Methyl tert-butyl	50.000	47.907	95.81	70-130
73 trans-1,2-Dichloro	42.500	45.656	107.43	70-130
78 Hexane	50.000	50.591	101.18	70-130
82 1,1-Dichloroethane	50.000	50.145	100.29	70-130
86 Vinyl Acetate	50.000	47.725	95.45	70-130
91 cis-1,2-Dichloroet	56.500	60.097	106.37	70-130
92 2-Butanone	50.000	48.726	97.45	70-130
99 Tetrahydrofuran	50.000	50.833	101.67	70-130
100 Chloroform	50.000	51.398	102.80	70-130
103 1,1,1-Trichloroeth	50.000	48.070	96.14	70-130
106 Carbon Tetrachlori	50.000	50.096	100.19	70-130
102 Cyclohexane	50.000	49.867	99.73	70-130
113 2,2,4-Trimethylpen	50.000	49.019	98.04	70-130
116 Benzene	50.000	48.778	97.56	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	51.238	102.48	70-130
121 Heptane	50.000	49.946	99.89	70-130
125 Trichloroethene	50.000	52.745	105.49	70-130
127 Methylcyclohexane	50.000	48.965	97.93	60-140
132 1,2-Dichloropropan	50.000	51.418	102.84	70-130
136 1,4-Dioxane	50.000	48.946	97.89	70-130
138 Bromodichlorometha	50.000	52.826	105.65	70-130
144 cis-1,3-Dichloropr	50.000	48.205	96.41	70-130
145 4-Methyl-2-pentano	50.000	47.759	95.52	70-130
147 Toluene	50.000	49.679	99.36	70-130
150 trans-1,3-Dichloro	50.000	49.590	99.18	70-130
155 1,1,2-Trichloroeth	50.000	50.528	101.06	70-130
156 Tetrachloroethene	50.000	50.771	101.54	70-130
158 2-Hexanone	50.000	48.196	96.39	70-130
160 Dibromochlorometha	50.000	50.705	101.41	70-130
161 1,2-Dibromoethane	50.000	50.946	101.89	70-130
165 Chlorobenzene	50.000	49.400	98.80	70-130
167 Ethyl Benzene	50.000	48.254	96.51	70-130
169 m,p-Xylene	50.000	48.577	97.15	70-130
171 o-Xylene	50.000	50.294	100.59	70-130
172 Styrene	50.000	49.509	99.02	70-130
174 Bromoform	65.000	68.569	105.49	70-130
175 Cumene	50.000	49.582	99.16	70-130
181 1,1,2,2-Tetrachlor	50.000	47.702	95.40	70-130
182 Propylbenzene	50.000	48.078	96.16	70-130
188 4-Ethyltoluene	50.000	48.764	97.53	70-130
190 1,3,5-Trimethylben	50.000	49.126	98.25	70-130
196 1,2,4-Trimethylben	50.000	49.383	98.77	70-130
208 1,3-Dichlorobenzen	50.000	48.619	97.24	70-130
209 1,4-Dichlorobenzen	50.000	47.645	95.29	70-130
212 alpha-Chlorotoluen	50.000	48.218	96.44	70-130
214 1,2-Dichlorobenzen	50.000	48.622	97.24	70-130
226 1,2,4-Trichloroben	50.000	47.688	95.38	70-130
227 Hexachlorobutadien	50.000	48.408	96.82	70-130
228 Naphthalene	5.000	5.722	114.45	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.500	98.00	70-130
$ 146 Toluene-d8	25.000	25.619	102.48	70-130
$ 177 4-Bromofluorobenze	25.000	25.810	103.24	70-130

Data File: /chem/msdp.i/07apr16.b/p040717.d
Date : 07-APR-2016 20:35
Client ID: ICV
Sample Info: 200ml 2759-247B
Column phase: RTX-624

Instrument: msdp.i
Operator: tar
Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040709.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 07-APR-2016 15:49
Operator : cb Inst ID: msdp.i
Smp Info : 20ml #2789-53
Misc Info : 0.5ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 07-Apr-2016 19:25 troberts Quant Type: ISTD
Cal Date : 07-APR-2016 15:49 Cal File: p040709.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12low.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
11 Freon 12					CAS #: 75-71-8		
1.506	1.506 (0.276)	85	7234	0.50000	0.5318	80.00- 120.00	100.00
1.506	1.506 (0.276)	87	1796			2.43- 62.43	24.83
15 Freon 114					CAS #: 76-14-2		
1.632	1.632 (0.300)	135	5416	0.50000	0.5062	80.00- 120.00	100.00
1.632	1.632 (0.300)	137	1622			1.44- 61.44	29.95
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.336)	62	2441	0.50000	0.3986	80.00- 120.00	100.00(a)
1.828	1.828 (0.336)	64	1067			0.00- 54.54	43.71
26 1,3-Butadiene					CAS #: 106-99-0		
1.842	1.842 (0.338)	54	3222	0.50000	0.5131	80.00- 120.00	100.00
1.842	1.842 (0.338)	39	3521			103.78- 163.78	109.28
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	2542	0.50000	0.6246	80.00- 120.00	100.00(a)
2.218	2.218 (0.407)	96	2791			66.47- 126.47	109.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
35 Freon 11					CAS #: 75-69-4		
2.562	2.562 (0.470)	101	7761	0.50000	0.5441	80.00- 120.00	100.00
2.569	2.569 (0.471)	103	4738			35.01- 95.01	61.05
49 Freon 113					CAS #: 76-13-1		
3.206	3.206 (0.588)	151	4991	0.50000	0.4659	80.00- 120.00	100.00(a)
3.206	3.206 (0.588)	153	4431			33.63- 93.63	88.78
3.214	3.214 (0.590)	101	6280			73.82- 133.82	125.83
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.595)	98	1565	0.50000	0.5201	80.00- 120.00	100.00
3.235	3.235 (0.594)	96	2275			130.56- 190.56	145.37
3.235	3.235 (0.594)	61	4443			327.82- 387.82	283.90
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.716)	49	4292	0.50000	0.4705	80.00- 120.00	100.00(a)
3.901	3.901 (0.716)	84	2131			14.95- 74.95	49.65
3.894	3.894 (0.715)	51	1406			0.42- 60.42	32.76
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.757)	73	7866	0.50000	0.5595	80.00- 120.00	100.00
4.116	4.116 (0.755)	57	2410			2.37- 62.37	30.64
4.130	4.130 (0.758)	41	3833			4.37- 64.37	48.73
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.761)	98	1510	0.50000	0.5011	80.00- 120.00	100.00
4.138	4.138 (0.759)	61	4132			269.90- 329.90	273.64
4.145	4.145 (0.761)	96	3318			127.45- 187.45	219.74
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.801)	57	5629	0.50000	0.5337	80.00- 120.00	100.00
4.367	4.367 (0.801)	43	4011			40.99- 100.99	71.26
4.367	4.367 (0.801)	86	729			0.00- 40.81	12.95
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.632	4.632 (0.850)	63	5781	0.50000	0.5333	80.00- 120.00	100.00
4.639	4.639 (0.851)	65	1874			0.00- 58.37	32.42
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.212	5.212 (0.957)	98	997	0.50000	0.3249	80.00- 120.00	100.00(a)
5.212	5.212 (0.957)	96	2229			124.70- 184.70	223.57
5.212	5.212 (0.957)	61	4582			233.87- 293.87	459.58
99 Tetrahydrofuran					CAS #: 109-99-9		
5.448	5.448 (1.000)	42	4530	0.50000	0.5495	80.00- 120.00	100.00
5.456	5.456 (1.001)	71	857			0.00- 53.97	18.92

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

   99 Tetrahydrofuran (continued)
  5.441   5.441 (0.999)    72      1068                     0.00-  55.92    23.58
-------------------------------------------------------------------------------
*  98 Bromochloromethane                           CAS #: 74-97-5
  5.448   5.448 (1.000)   130    118225 25.0000           80.00- 120.00   100.00
  5.448   5.448 (1.000)   128     93864                   49.40- 109.40    79.39
  5.448   5.448 (1.000)    49    213768                  153.31- 213.31   180.81
-------------------------------------------------------------------------------
  100 Chloroform                                  CAS #: 67-66-3
  5.506   5.506 (1.011)    83      4918 0.50000   0.4783  80.00- 120.00   100.00(a)
  5.506   5.506 (1.011)    85      3416                   35.28-  95.28    69.46
-------------------------------------------------------------------------------
  102 Cyclohexane                                 CAS #: 110-82-7
  5.620   5.620 (1.032)    84      3436 0.50000   0.5197  80.00- 120.00   100.00
  5.628   5.628 (1.033)    56      8786                  138.21- 198.21   255.70
  5.620   5.620 (1.032)    41      6239                   72.24- 132.24   181.58
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                       CAS #: 71-55-6
  5.642   5.642 (1.035)    97      6124 0.50000   0.5136  80.00- 120.00   100.00
  5.635   5.635 (1.034)    99      4050                   33.83-  93.83    66.13
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                        CAS #: 56-23-5
  5.749   5.749 (1.055)   119      5756 0.50000   0.4590  80.00- 120.00   100.00(a)
  5.756   5.756 (1.057)   117      7057                   74.93- 134.93   122.60
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                      CAS #: 540-84-1
  5.957   5.957 (1.093)    57     19547 0.50000   0.5489  80.00- 120.00   100.00
  5.957   5.957 (1.093)    56      5773                    2.51-  62.51    29.53
  5.957   5.957 (1.093)    41      5863                    0.00-  58.92    29.99
-------------------------------------------------------------------------------
  116 Benzene                                     CAS #: 71-43-2
  5.971   5.971 (0.942)    78      8218 0.50000   0.5494  80.00- 120.00   100.00
  5.971   5.971 (0.942)    77      1561                    0.00-  54.04    18.99
-------------------------------------------------------------------------------
$ 117 1,2-Dichloroethane-d4                       CAS #: 17060-07-0
  5.986   5.986 (1.099)    65    184143 25.0000   25.359  80.00- 120.00   100.00
  5.986   5.986 (1.099)    67     85755                   25.58-  85.58    46.57
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                          CAS #: 107-06-2
  6.050   6.050 (0.955)    62      4245 0.50000   0.4751  80.00- 120.00   100.00(a)
  6.050   6.050 (0.955)    64      1641                    0.59-  60.59    38.66
-------------------------------------------------------------------------------
  121 Heptane                                     CAS #: 142-82-5
  6.129   6.129 (0.967)    71      3441 0.50000   0.6157  80.00- 120.00   100.00
  6.122   6.122 (0.966)    43      8121                  231.64- 291.64   236.01
  6.122   6.122 (0.966)    57      4150                  103.28- 163.28   120.60
-------------------------------------------------------------------------------
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

* 123 1,4-Difluorobenzene                          CAS #: 540-36-3
  6.337   6.337 (1.000)   114    485260 25.0000           80.00- 120.00   100.00
  6.337   6.337 (1.000)    88     64695                    0.00-  43.38    13.33
-------------------------------------------------------------------------------
  125 Trichloroethene                               CAS #: 79-01-6
  6.537   6.537 (1.032)    95      3543 0.50000   0.4824  80.00- 120.00   100.00(a)
  6.537   6.537 (1.032)   130      3391                   82.18- 142.18    95.71
  6.537   6.537 (1.032)    97      2414                   33.62-  93.62    68.13
-------------------------------------------------------------------------------
  127 Methylcyclohexane                             CAS #: 108-87-2
  6.638   6.638 (1.047)    83      4766 0.50000   0.4852  80.00- 120.00   100.00(a)
  6.638   6.638 (1.047)    98      2328                   16.98-  76.98    48.85
  6.645   6.645 (1.049)    55      5768                   83.20- 143.20   121.02
-------------------------------------------------------------------------------
  132 1,2-Dichloropropane                           CAS #: 78-87-5
  6.766   6.766 (1.068)    63      3590 0.50000   0.5008  80.00- 120.00   100.00
  6.766   6.766 (1.068)    62      2147                   41.70- 101.70    59.81
  6.774   6.774 (1.069)    41      2691                   41.13- 101.13    74.96
-------------------------------------------------------------------------------
  138 Bromodichloromethane                          CAS #: 75-27-4
  6.989   6.989 (1.103)    83      5724 0.50000   0.4773  80.00- 120.00   100.00(a)
  6.989   6.989 (1.103)    85      3955                   35.75-  95.75    69.10
-------------------------------------------------------------------------------
  144 cis-1,3-Dichloropropene                       CAS #: 10061-01-5
  7.368   7.368 (1.163)    75      5125 0.50000   0.5144  80.00- 120.00   100.00
  7.368   7.368 (1.163)    77      1817                    0.75-  60.75    35.45
  7.368   7.368 (1.163)    39      4320                   45.96- 105.96    84.29
-------------------------------------------------------------------------------
  145 4-Methyl-2-pentanone                          CAS #: 108-10-1
  7.483   7.483 (1.181)    58      3576 0.50000   0.5336  80.00- 120.00   100.00
  7.483   7.483 (1.181)    43     11021                  264.26- 324.26   308.19
  7.476   7.476 (1.180)    85      1003                    3.08-  63.08    28.05
-------------------------------------------------------------------------------
$ 146 Toluene-d8                                    CAS #: 2037-26-5
  7.554   7.554 (1.192)    98    464836 25.0000   23.733  80.00- 120.00   100.00
  7.554   7.554 (1.192)    70     51449                    0.00-  40.37    11.07
  7.554   7.554 (1.192)   100    311537                   38.69-  98.69    67.02
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.605   7.605 (1.200)    91     10842 0.50000   0.5267  80.00- 120.00   100.00
  7.605   7.605 (1.200)    92      6062                   28.28-  88.28    55.91
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                     CAS #: 10061-02-6
  7.841   7.841 (0.893)    75      4715 0.50000   0.5255  80.00- 120.00   100.00
  7.841   7.841 (0.893)    77      1944                    0.54-  60.54    41.23
  7.841   7.841 (0.893)    39      3675                   41.71- 101.71    77.94
-------------------------------------------------------------------------------
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  155 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.998   7.998 (0.911)    97      3291 0.50000   0.4890  80.00- 120.00   100.00(a)
  7.998   7.998 (0.911)    99      2485                   33.23-  93.23    75.51
  7.998   7.998 (0.911)    83      2886                   57.40- 117.40    87.69
-------------------------------------------------------------------------------
  156 Tetrachloroethene                            CAS #: 127-18-4
  8.041   8.041 (0.916)   166      5791 0.50000   0.4838  80.00- 120.00   100.00(a)
  8.041   8.041 (0.916)   129      3928                   34.91-  94.91    67.83
  8.041   8.041 (0.916)   131      3760                   34.35-  94.35    64.93
-------------------------------------------------------------------------------
  158 2-Hexanone                                   CAS #: 591-78-6
  8.170   8.170 (0.931)    58      5080 0.50000   0.5711  80.00- 120.00   100.00(a)
  8.170   8.170 (0.931)    43      9988                  175.82- 235.82   196.61
  8.170   8.170 (0.931)   100       442                    0.00-  45.85     8.70
-------------------------------------------------------------------------------
  160 Dibromochloromethane                         CAS #: 124-48-1
  8.307   8.307 (0.946)   129      7067 0.50000   0.4960  80.00- 120.00   100.00(a)
  8.314   8.314 (0.947)   127      5875                   48.31- 108.31    83.13
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                      CAS #: 106-93-4
  8.428   8.428 (0.960)   107      5368 0.50000   0.4913  80.00- 120.00   100.00(a)
  8.421   8.421 (0.959)   109      5701                   65.63- 125.63   106.20
-------------------------------------------------------------------------------
* 163 Chlorobenzene-d5                             CAS #: 3114-55-4
  8.779   8.779 (1.000)   117    436498 25.0000           80.00- 120.00   100.00
  8.779   8.779 (1.000)    82    230658                   21.26-  81.26    52.84
-------------------------------------------------------------------------------
  165 Chlorobenzene                                CAS #: 108-90-7
  8.808   8.808 (1.003)   112      9108 0.50000   0.5256  80.00- 120.00   100.00
  8.808   8.808 (1.003)   114      3238                    1.89-  61.89    35.55
  8.786   8.786 (1.001)    77      9357                   22.59-  82.59   102.73
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                CAS #: 100-41-4
  8.858   8.858 (1.009)   106      4936 0.50000   0.5601  80.00- 120.00   100.00
  8.858   8.858 (1.009)    91     15059                  277.26- 337.26   305.09
-------------------------------------------------------------------------------
  169 m,p-Xylene                                   CAS #: 108-38-3
  8.958   8.958 (1.020)   106      5788 0.50000   0.5325  80.00- 120.00   100.00
  8.951   8.951 (1.020)    91     10097                  167.63- 227.63   174.45
-------------------------------------------------------------------------------
  171 o-Xylene                                     CAS #: 95-47-6
  9.295   9.295 (1.059)   106      4711 0.50000   0.4670  80.00- 120.00   100.00(a)
  9.295   9.295 (1.059)    91     12433                  178.91- 238.91   263.91
-------------------------------------------------------------------------------
  172 Styrene                                      CAS #: 100-42-5
  9.309   9.309 (1.060)   104      7317 0.50000   0.4500  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
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  172 Styrene (continued)
  9.309   9.309 (1.060)    78      4222                    15.94-  75.94    57.70
-------------------------------------------------------------------------------
  174 Bromoform                                   CAS #: 75-25-2
  9.503   9.503 (1.082)   173      8184 0.50000   0.4723  80.00- 120.00   100.00(a)
  9.503   9.503 (1.082)   171      4354                    21.13-  81.13    53.20
-------------------------------------------------------------------------------
  175 Cumene                                      CAS #: 98-82-8
  9.582   9.582 (1.091)   105     15602 0.50000   0.4859  80.00- 120.00   100.00(a)
  9.582   9.582 (1.091)   120      4955                     0.00-  57.59    31.76
  9.582   9.582 (1.091)    51      3664                     0.00-  43.20    23.48
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                        CAS #: 460-00-4
  9.761   9.761 (1.112)   174    345113 25.0000   24.179  80.00- 120.00   100.00
  9.753   9.753 (1.111)    95    321936                    59.95- 119.95    93.28
  9.761   9.761 (1.112)   176    331629                    67.47- 127.47    96.09
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                   CAS #: 79-34-5
  9.882   9.882 (1.126)    83      8185 0.50000   0.5038  80.00- 120.00   100.00
  9.882   9.882 (1.126)    85      5181                    35.30-  95.30    63.30
-------------------------------------------------------------------------------
  182 Propylbenzene                               CAS #: 103-65-1
  9.918   9.918 (1.130)    91     21548 0.50000   0.5499  80.00- 120.00   100.00
  9.918   9.918 (1.130)   120      5185                     0.00-  54.24    24.06
  9.918   9.918 (1.130)   105       858                     0.00-  33.65     3.98
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                              CAS #: 622-96-8
 10.018  10.018 (1.141)   120      5545 0.50000   0.5321  80.00- 120.00   100.00
 10.011  10.011 (1.140)   105     17154                   283.78- 343.78   309.36
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                      CAS #: 108-67-8
 10.069  10.069 (1.147)   120      6982 0.50000   0.4992  80.00- 120.00   100.00(a)
 10.069  10.069 (1.147)   105     14144                   172.79- 232.79   202.58
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                      CAS #: 95-63-6
 10.391  10.391 (1.184)   120      6048 0.50000   0.4778  80.00- 120.00   100.00(a)
 10.398  10.398 (1.184)   105     13343                   186.10- 246.10   220.62
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                         CAS #: 541-73-1
 10.677  10.677 (1.216)   146     11652 0.50000   0.5329  80.00- 120.00   100.00
 10.677  10.677 (1.216)   148      8232                    34.63-  94.63    70.65
 10.670  10.670 (1.215)   111      4475                     7.17-  67.17    38.41
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                         CAS #: 106-46-7
 10.756  10.756 (1.225)   146     11894 0.50000   0.5325  80.00- 120.00   100.00
 10.756  10.756 (1.225)   148      7904                    33.55-  93.55    66.45
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
209 1,4-Dichlorobenzene (continued)							
10.756	10.756 (1.225)	111	4350			4.50- 64.50	36.57
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.871	10.871 (1.238)	91	14690	0.50000	0.5170	80.00- 120.00	100.00
10.871	10.871 (1.238)	126	3487			0.00- 52.80	23.74
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.086	11.086 (1.263)	146	10320	0.50000	0.4922	80.00- 120.00	100.00(a)
11.086	11.086 (1.263)	148	7853			33.56- 93.56	76.09
11.079	11.079 (1.262)	111	3907			7.11- 67.11	37.86

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: msdp.i
Lab File ID: p040709.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 0.5ppbv(5.0ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	118225	-0.45
123 1,4-Difluorobenze	479982	287989	671975	485260	1.10
163 Chlorobenzene-d5	441761	265057	618465	436498	-1.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.45	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	-0.12
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/07apr16.b/p040709.d

Date : 07-APR-2016 15:49

Client ID: Level 2

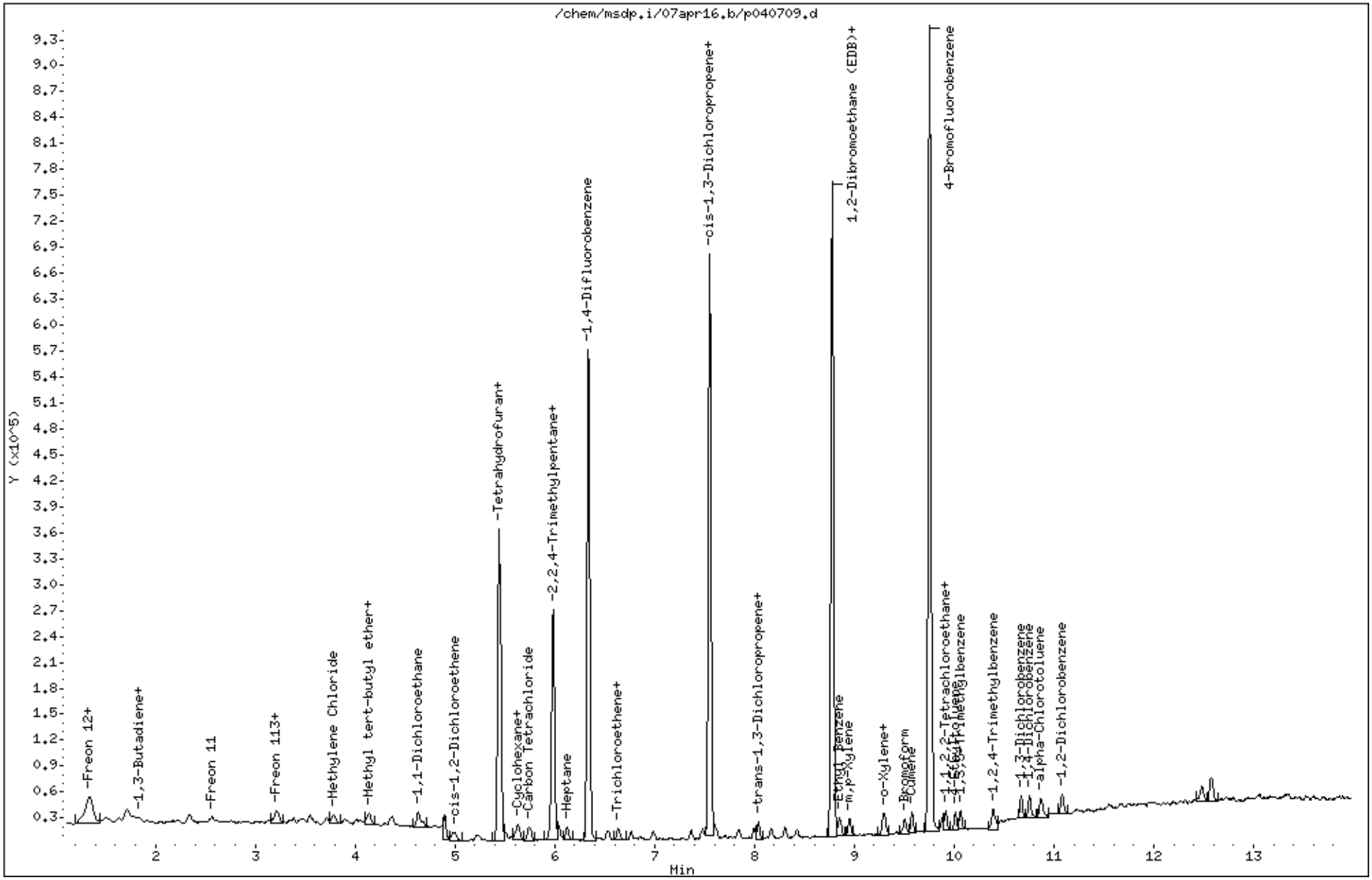
Sample Info: 20ml #2789-53

Column phase: RTX-624

Instrument: msdp.i

Operator: cb

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17jun16.b/p061708.d
Lab Smp Id: ICAL Level #3
Inj Date : 17-JUN-2016 12:00
Operator : jcw Inst ID: msdp.i
Smp Info : 80ml 2789-196
Misc Info : 2.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17jun16.b/p16q0407d.m
Meth Date : 21-Jun-2016 11:12 jwu Quant Type: ISTD
Cal Date : 17-JUN-2016 12:00 Cal File: p061708.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 123TCB.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
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	98557	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	77011			49.40- 109.40	78.14
5.441	5.441 (1.000)	49	216414			153.31- 213.31	219.58
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	401120	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	55990			0.00- 43.38	13.96
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.772	8.772 (1.000)	117	358861	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	196350			21.26- 81.26	54.71
229 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
12.991	12.991 (1.481)	180	25728	2.00000	1.587	0.00- 0.00	100.00(a)
12.991	12.991 (1.481)	182	25559			0.00- 0.00	99.34
12.984	12.984 (1.480)	145	8175			0.00- 0.00	31.77

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: msdp.i
Lab File ID: p061708.d
Lab Smp Id: ICAL Level #3
Analysis Type: VOA
Quant Type: ISTD
Operator: jcw
Method File: /chem/msdp.i/17jun16.b/p16q0407d.m
Misc Info: 2.0ppbv(5.0ppbv)

Calibration Date: 17-JUN-2016
Calibration Time: 10:21

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	103909	62345	145473	98557	-5.15
123 1,4-Difluorobenze	395331	237199	553463	401120	1.46
163 Chlorobenzene-d5	363807	218284	509330	358861	-1.36

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.77	-0.08

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/msdp.i/17jun16.b/p061708.d

Date : 17-JUN-2016 12:00

Client ID:

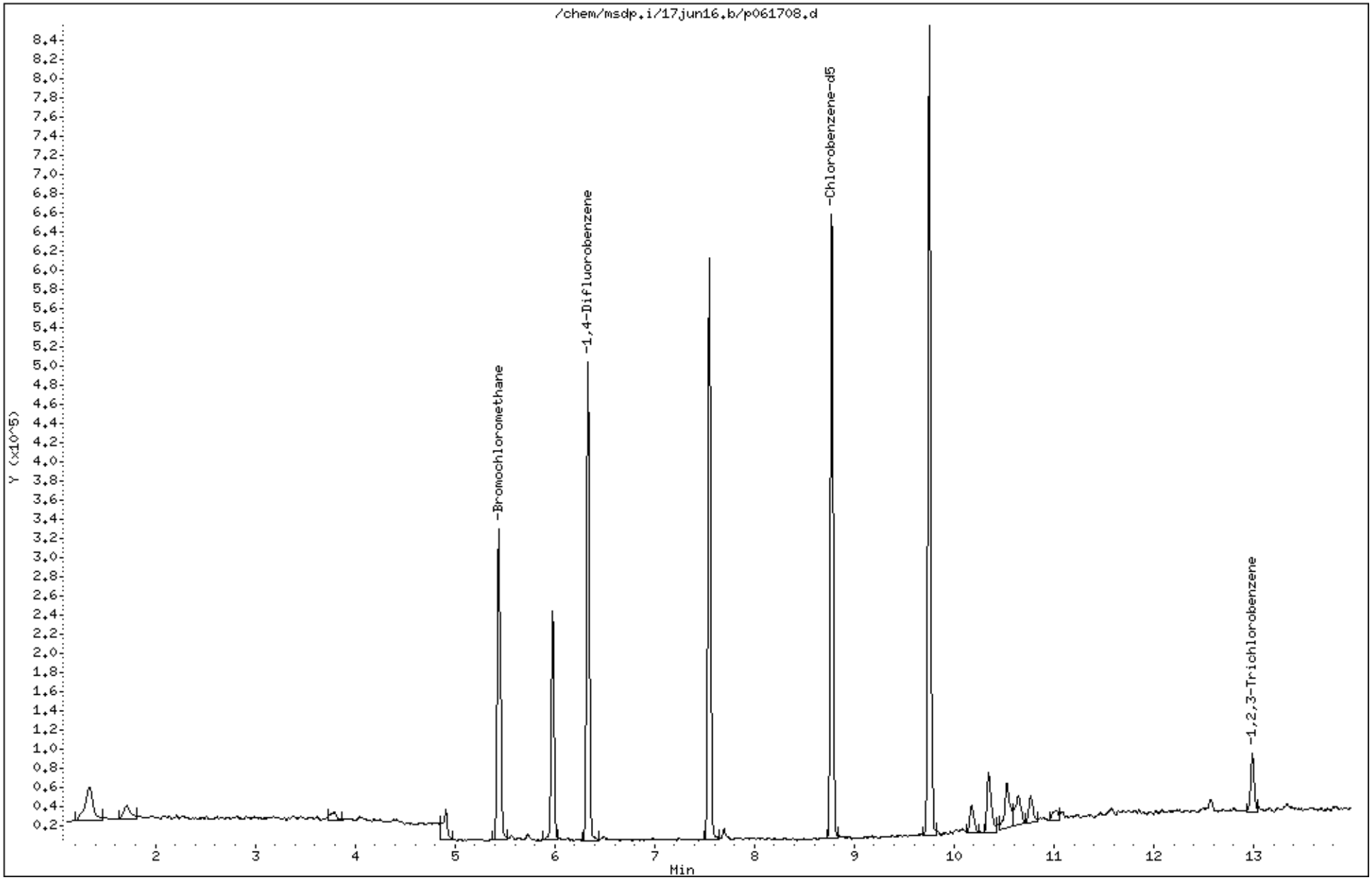
Sample Info: 80ml 2789-196

Column phase: RTX-624

Instrument: msdp.i

Operator: jcw

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/16jun16.b/p061618.d
Lab Smp Id: ICAL Level #3
Inj Date : 16-JUN-2016 21:04
Operator : gh Inst ID: msdp.i
Smp Info : 80ml 2789-186
Misc Info : 2.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/16jun16.b/p16q0407c.m
Meth Date : 21-Jun-2016 16:21 sblack Quant Type: ISTD
Cal Date : 16-JUN-2016 21:04 Cal File: p061618.d
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2part1.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
32 Vinyl Bromide					CAS #: 593-60-2		
2.519	2.519 (0.463)	106	8345	2.00000	2.000	0.00- 0.00	100.00
2.519	2.519 (0.463)	108	6778			0.00- 0.00	81.22
61 Methyl Acetate					CAS #: 79-20-9		
3.751	3.751 (0.689)	43	50870	2.00000	2.000	0.00- 0.00	100.00
3.751	3.751 (0.689)	74	2915			0.00- 0.00	5.73
85 Chloroprene					CAS #: 126-99-8		
4.682	4.682 (0.860)	53	18780	2.00000	2.000	0.00- 0.00	100.00
4.682	4.682 (0.860)	88	6377			0.00- 0.00	33.96
4.682	4.682 (0.860)	50	5894			0.00- 0.00	31.38
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	96889	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	75730			49.40- 109.40	78.16
5.441	5.441 (1.000)	49	214844			153.31- 213.31	221.74
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	386476	25.0000		80.00- 120.00	100.00

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

* 123 1,4-Difluorobenzene (continued)
  6.337   6.337 (1.000)    88     55528                     0.00-  43.38    14.37
-------------------------------------------------------------------------------
* 163 Chlorobenzene-d5                              CAS #: 3114-55-4
  8.779   8.779 (1.000)   117    363736 25.0000            80.00- 120.00   100.00
  8.772   8.772 (1.000)    82    188993                    21.26-  81.26    51.96
-------------------------------------------------------------------------------
  184 trans-1,4-Dichloro-2-butene                   CAS #: 110-57-6
  9.933   9.933 (1.131)    75     10129 2.00000             0.00-   0.00   100.00(a)
  9.933   9.933 (1.131)    89      4990                      0.00-   0.00    49.26
  9.933   9.933 (1.131)    53     10901                      0.00-   0.00   107.62
-------------------------------------------------------------------------------
  217 Hexachloroethane                              CAS #: 67-72-1
 11.265  11.265 (1.283)   201     12774 2.00000    2.000    0.00-   0.00   100.00
 11.258  11.258 (1.282)   117     13264                      0.00-   0.00   103.84
-------------------------------------------------------------------------------
  224 1,3,5-Trichlorobenzene                        CAS #: 108-70-3
 11.888  11.888 (1.354)   180     27935 2.00000    2.000    0.00-   0.00   100.00
 11.888  11.888 (1.354)   182     25370                      0.00-   0.00    90.82
-------------------------------------------------------------------------------
```

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: msdp.i
Lab File ID: p061618.d
Lab Smp Id: ICAL Level #3
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/16jun16.b/p16q0407c.m
Misc Info: 2.0ppbv(5.0ppbv)

Calibration Date: 16-JUN-2016
Calibration Time: 09:16

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	104544	62726	146362	96889	-7.32
123 1,4-Difluorobenze	423236	253942	592530	386476	-8.69
163 Chlorobenzene-d5	390160	234096	546224	363736	-6.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.78	0.08

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/msdp.i/16jun16.b/p061618.d

Date : 16-JUN-2016 21:04

Client ID:

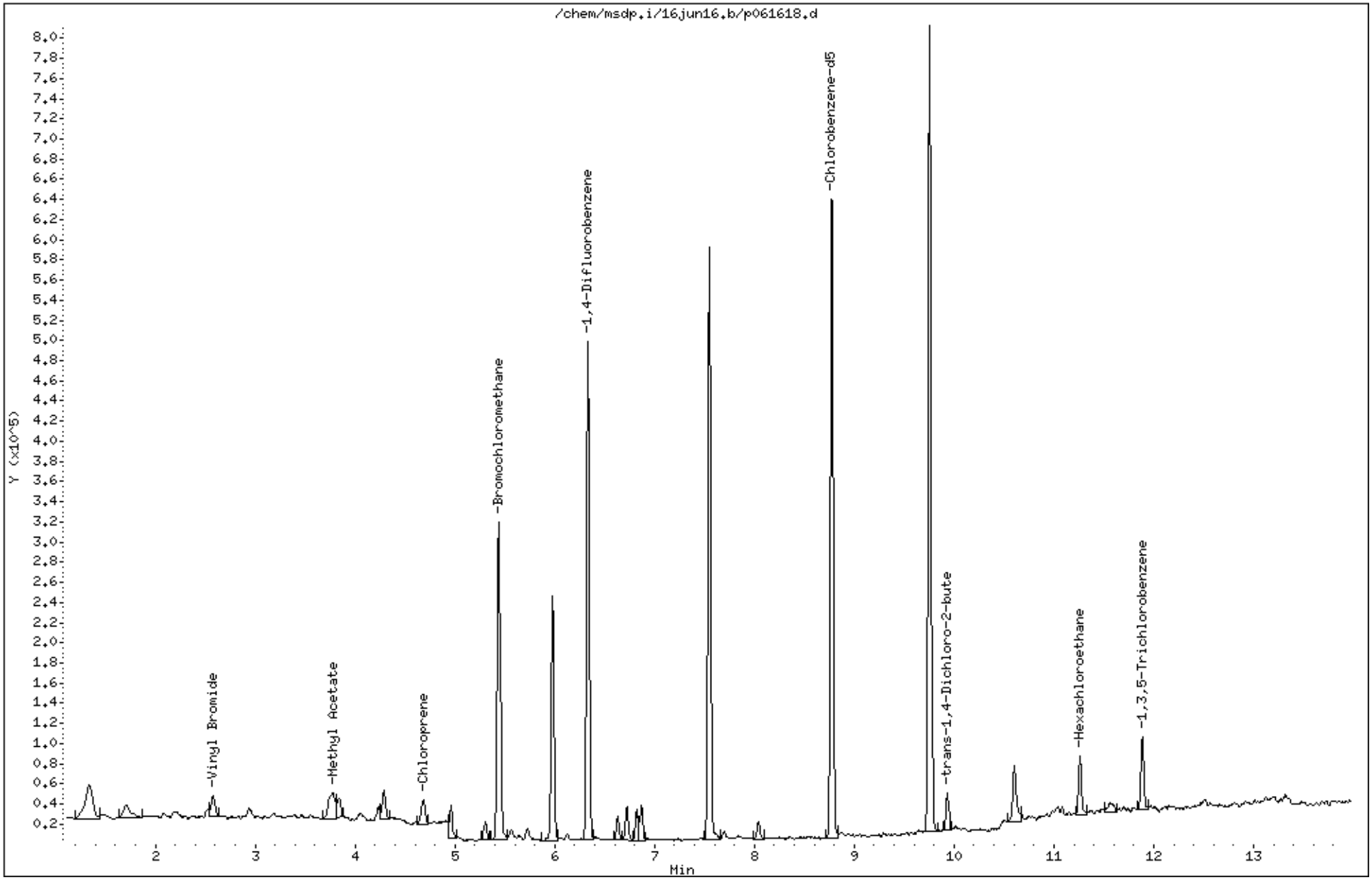
Sample Info: 80ml 2789-186

Column phase: RTX-624

Instrument: msdp.i

Operator: gh

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/12may16.b/p051205.d
Lab Smp Id: ICAL Level #3 Client Smp ID: ICAL Level #3
Inj Date : 12-MAY-2016 12:09
Operator : jg Inst ID: msdp.i
Smp Info : 80ml #2789-129
Misc Info : 2ppbv (5ppbv) AT1
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/12may16.b/p16q0407b.m
Meth Date : 21-Jun-2016 13:25 jwu Quant Type: ISTD
Cal Date : 12-MAY-2016 12:09 Cal File: p051205.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Freoncrv.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
7 Freon 134a					CAS #: 811-97-2		
1.451	1.451 (0.267)	83	7296	2.00000	2.124	0.00- 0.00	100.00
1.437	1.437 (0.264)	69	9877			0.00- 0.00	135.38
1.451	1.451 (0.267)	63	1286			0.00- 0.00	17.63
10 1,1-Difluoroethane					CAS #: 75-37-6		
1.507	1.507 (0.277)	65	4248	2.00000	2.249	0.00- 0.00	100.00
1.548	1.548 (0.285)	51	31940			0.00- 0.00	751.88
1.507	1.507 (0.277)	47	2374			0.00- 0.00	55.89
13 Chlorodifluoromethane					CAS #: 75-45-6		
1.548	1.548 (0.285)	67	2218	2.00000	2.205	0.00- 0.00	100.00
1.548	1.548 (0.285)	51	32637			0.00- 0.00	1471.46
1.507	1.507 (0.277)	85	1005			0.00- 0.00	45.31
16 Freon 142b					CAS #: 75-68-3		
1.674	1.674 (0.308)	65	19772	2.00000	2.094	0.00- 0.00	100.00
1.660	1.660 (0.305)	45	7724			0.00- 0.00	39.07
37 Dichlorofluoromethane					CAS #: 75-43-4		
2.576	2.576 (0.473)	67	19551	2.00000	2.018	0.00- 0.00	100.00(T)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
37 Dichlorofluoromethane (continued)							
2.576	2.576 (0.473)	69	5754			0.00- 0.00	29.43
0.000	1.000 (0.000)	35	0			0.00- 0.00	0.00
48 Freon 123					CAS #: 306-83-2		
3.135	3.135 (0.576)	83	20256	2.00000	2.020	0.00- 0.00	100.00
3.135	3.135 (0.576)	133	4800			0.00- 0.00	23.70
3.135	3.135 (0.576)	85	13212			0.00- 0.00	65.23
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	111583	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	88107			49.40- 109.40	78.96
5.441	5.441 (1.000)	49	211368			153.31- 213.31	189.43
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	453546	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	62880			0.00- 43.38	13.86
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.779	8.779 (1.000)	117	421460	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	211728			21.26- 81.26	50.24

QC Flag Legend

T - Target compound detected outside RT window.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051205.d
Lab Smp Id: ICAL Level #3
Analysis Type: VOA
Quant Type: ISTD
Operator: jg
Method File: /chem/msdp.i/12may16.b/p16q0407b.m
Misc Info: 2ppbv (5ppbv) AT1

Calibration Date: 12-MAY-2016
Calibration Time: 10:09
Client Smp ID: ICAL Level #3
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	112584	67550	157618	111583	-0.89
123 1,4-Difluorobenze	443624	266174	621074	453546	2.24
163 Chlorobenzene-d5	420265	252159	588371	421460	0.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/12may16.b/p051205.d

Date : 12-MAY-2016 12:09

Client ID: ICAL Level #3

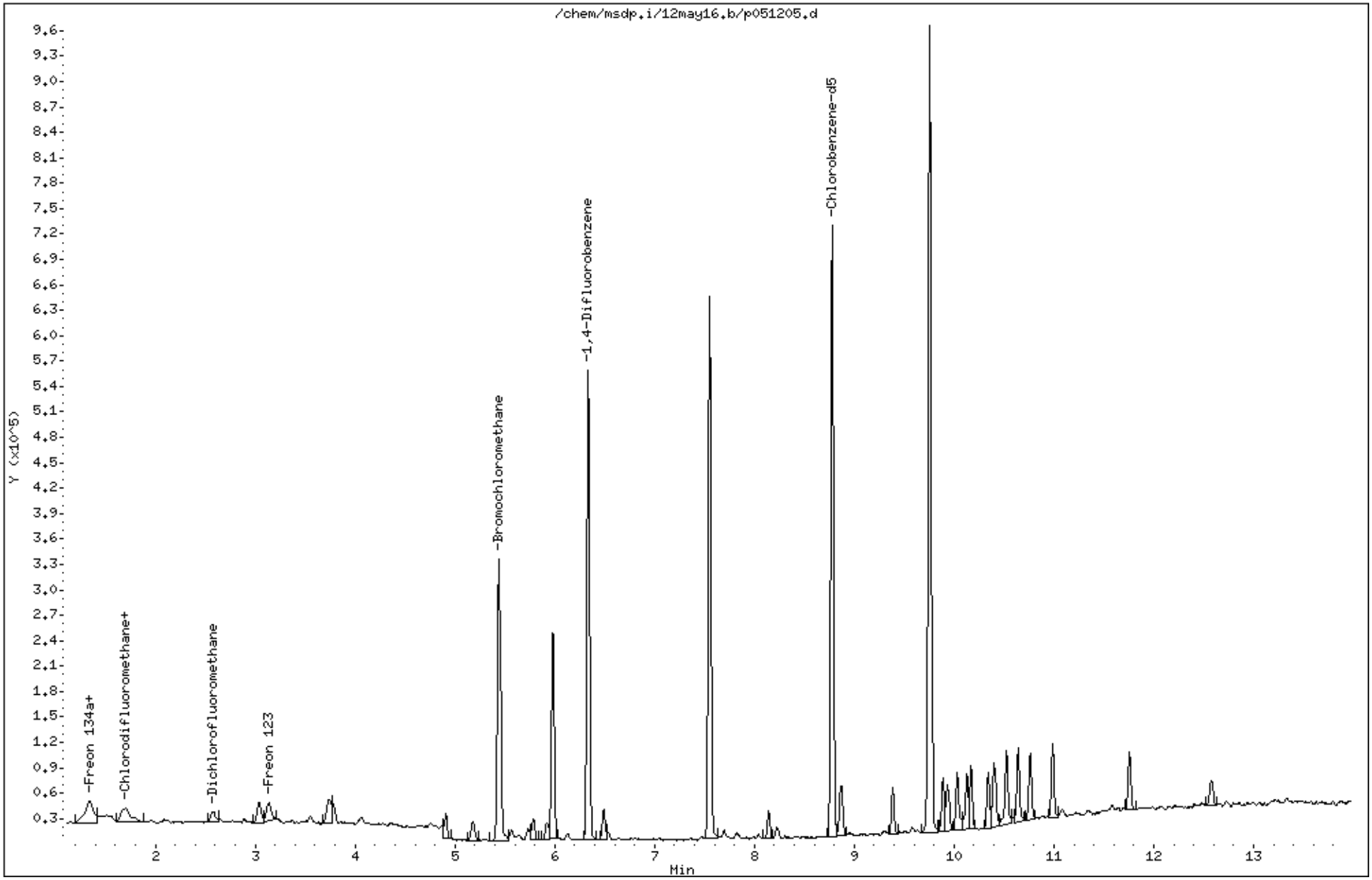
Sample Info: 80ml #2789-129

Column phase: RTX-624

Instrument: msdp.i

Operator: jg

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/04may16.b/p050405.d
Lab Smp Id: ICAL Level #3 Client Smp ID: ICAL Level #3
Inj Date : 04-MAY-2016 11:28
Operator : cb Inst ID: msdp.i
Smp Info : 80ml #2789-105
Misc Info : 2ppbv(5ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/04may16.b/p16q0407b.m
Meth Date : 21-Jun-2016 13:24 jwu Quant Type: ISTD
Cal Date : 04-MAY-2016 11:28 Cal File: p050405.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ComboICAL.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
36 1-Pentene					CAS #: 109-67-1		
2.590	2.590 (0.476)	55	15861	2.00000	2.120	0.00- 0.00	100.00
2.583	2.583 (0.475)	42	19344			0.00- 0.00	121.96
34 Pentane					CAS #: 109-66-0		
2.641	2.641 (0.485)	43	30885	2.00000	2.030	0.00- 0.00	100.00
2.641	2.641 (0.485)	57	4493			0.00- 0.00	14.55
2.648	2.648 (0.487)	72	1746			0.00- 0.00	5.65
44 Ethyl Ether					CAS #: 60-29-7		
2.949	2.949 (0.542)	74	4517	2.00000	1.801	0.00- 0.00	100.00(T)
2.942	2.942 (0.541)	59	11156			0.00- 0.00	246.98
0.000	1.000 (0.000)	31	0			0.00- 0.00	0.00
53 Iodomethane					CAS #: 74-88-4		
3.443	3.443 (0.633)	142	856	2.00000	0.1003	0.00- 0.00	100.00(Ta)
0.000	1.000 (0.000)	127	0			0.00- 0.00	0.00
59 Cyclopentene					CAS #: 142-29-0		
3.729	3.729 (0.685)	67	18458	2.00000	1.925	0.00- 0.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
59 Cyclopentene (continued)							
3.729	3.729 (0.685)	68	8412			0.00- 0.00	45.57
3.729	3.729 (0.685)	53	7346			0.00- 0.00	39.80
64 Cyclopentane					CAS #: 287-92-3		
3.844	3.844 (0.706)	70	5455	2.00000	1.881	0.00- 0.00	100.00
3.844	3.844 (0.706)	55	13521			0.00- 0.00	247.86
76 1-Hexene					CAS #: 592-41-6		
4.295	4.295 (0.789)	55	12686	2.00000	2.070	0.00- 0.00	100.00
4.295	4.295 (0.789)	41	17714			0.00- 0.00	139.63
4.288	4.288 (0.788)	84	2526			0.00- 0.00	19.91
84 1-Propanol					CAS #: 71-23-8		
4.761	4.761 (0.875)	59	3668	2.00000	2.107	0.00- 0.00	100.00
4.761	4.761 (0.875)	42	3962			0.00- 0.00	108.02
4.761	4.761 (0.875)	41	3357			0.00- 0.00	91.52
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.184	5.184 (0.953)	77	22266	2.00000	2.008	0.00- 0.00	100.00
5.184	5.184 (0.953)	79	6396			0.00- 0.00	28.73
5.176	5.176 (0.951)	97	4144			0.00- 0.00	18.61
94 Ethyl Acetate					CAS #: 141-78-6		
5.262	5.262 (0.967)	70	2399	2.00000	2.056	0.00- 0.00	100.00
5.262	5.262 (0.967)	61	4554			0.00- 0.00	189.83
5.262	5.262 (0.967)	45	6827			0.00- 0.00	284.58
93 Methyl Acrylate					CAS #: 96-33-3		
5.305	5.305 (0.975)	55	34405	2.00000	1.952	0.00- 0.00	100.00
5.312	5.312 (0.976)	85	3292			0.00- 0.00	9.57
5.305	5.305 (0.975)	58	2413			0.00- 0.00	7.01
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	128079	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	98355			49.40- 109.40	76.79
5.441	5.441 (1.000)	49	226379			153.31- 213.31	176.75
107 1,1-Dichloropropene					CAS #: 563-58-6		
5.785	5.785 (0.913)	110	6696	2.00000	2.046	0.00- 0.00	100.00
5.785	5.785 (0.913)	75	19059			0.00- 0.00	284.63
115 Isobutanol					CAS #: 78-83-1		
5.921	5.921 (0.934)	39	6675	2.00000	2.640	0.00- 0.00	100.00
5.921	5.921 (0.934)	43	18624			0.00- 0.00	279.01
5.921	5.921 (0.934)	41	15124			0.00- 0.00	226.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	507905	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	74003			0.00- 43.38	14.57
124 n-Butanol					CAS #: 71-36-3		
6.494	6.494 (1.025)	56	26129	2.00000	2.043	0.00- 0.00	100.00
6.494	6.494 (1.025)	41	20040			0.00- 0.00	76.70
6.494	6.494 (1.025)	43	16736			0.00- 0.00	64.05
128 Ethyl acrylate					CAS #: 140-88-5		
6.638	6.638 (0.756)	99	1971	2.00000	2.050	0.00- 0.00	100.00
6.630	6.630 (0.755)	45	4142			0.00- 0.00	210.15
6.630	6.630 (0.755)	55	40811			0.00- 0.00	2070.57
131 2-Pentanone					CAS #: 107-87-9		
6.724	6.724 (0.766)	43	54435	2.00000	2.126	0.00- 0.00	100.00
6.724	6.724 (0.766)	58	3471			0.00- 0.00	6.38
6.724	6.724 (0.766)	86	5768			0.00- 0.00	10.60
134 Methyl Methacrylate					CAS #: 80-62-6		
6.824	6.824 (0.777)	41	25115	2.00000	1.962	0.00- 0.00	100.00
6.831	6.831 (0.778)	69	12112			0.00- 0.00	48.23
6.831	6.831 (0.778)	100	5345			0.00- 0.00	21.28
137 Dibromomethane					CAS #: 74-95-3		
6.874	6.874 (0.783)	174	22634	2.00000	2.102	0.00- 0.00	100.00
6.874	6.874 (0.783)	93	16508			0.00- 0.00	72.93
6.867	6.867 (0.782)	95	14314			0.00- 0.00	63.24
148 Octane					CAS #: 111-65-9		
7.619	7.619 (1.202)	57	14119	2.00000	1.960	0.00- 0.00	100.00
7.619	7.619 (1.202)	85	11454			0.00- 0.00	81.12
7.619	7.619 (1.202)	43	38117			0.00- 0.00	269.97
157 1,3-Dichloropropane					CAS #: 142-28-9		
8.142	8.142 (1.285)	76	22763	2.00000	2.112	0.00- 0.00	100.00
8.142	8.142 (1.285)	41	21559			0.00- 0.00	94.71
8.142	8.142 (1.285)	78	7421			0.00- 0.00	32.60
159 Butyl Acetate					CAS #: 123-86-4		
8.228	8.228 (1.298)	56	5701	2.00000	2.188	0.00- 0.00	100.00
8.235	8.235 (1.300)	73	2045			0.00- 0.00	35.87
8.228	8.228 (1.298)	43	12498			0.00- 0.00	219.22
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.779	8.779 (1.000)	117	478889	25.0000		80.00- 120.00	100.00

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

* 163 Chlorobenzene-d5 (continued)
  8.779   8.779 (1.000)    82    248078                   21.26-  81.26    51.80
-------------------------------------------------------------------------------
  168 1,1,1,2-Tetrachloroethane                    CAS #: 630-20-6
  8.873   8.873 (1.011)   131     23445 2.00000    1.984   0.00-   0.00   100.00
  8.873   8.873 (1.011)   117     19817                    0.00-   0.00    84.53
  8.873   8.873 (1.011)    95      8536                    0.00-   0.00    36.41
-------------------------------------------------------------------------------
  170 Nonane                                       CAS #: 111-84-2
  8.880   8.880 (1.011)    43     39121 2.00000    2.024   0.00-   0.00   100.00
  8.880   8.880 (1.011)    57     32012                    0.00-   0.00    81.83
  8.880   8.880 (1.011)    85      9453                    0.00-   0.00    24.16
-------------------------------------------------------------------------------
  173 2-Heptanone                                  CAS #: 110-43-0
  9.388   9.388 (1.725)    58     31328 2.00000    1.888   0.00-   0.00   100.00
  9.388   9.388 (1.725)    43     54354                    0.00-   0.00   173.50
-------------------------------------------------------------------------------
  176 Cyclohexanone                                CAS #: 108-94-1
  9.739   9.739 (1.109)    55     26087 2.00000    2.248   0.00-   0.00   100.00
  9.739   9.739 (1.109)    98      8452                    0.00-   0.00    32.40
  9.739   9.739 (1.109)    42     18779                    0.00-   0.00    71.99
-------------------------------------------------------------------------------
  179 alpha-Pinene                                 CAS #: 80-56-8
  9.546   9.546 (1.087)    93     52835 2.00000    2.228   0.00-   0.00   100.00
  9.546   9.546 (1.087)    77     16860                    0.00-   0.00    31.91
-------------------------------------------------------------------------------
  180 Bromobenzene                                 CAS #: 108-86-1
  9.890   9.890 (1.126)   156     27925 2.00000    2.019   0.00-   0.00   100.00
  9.890   9.890 (1.126)   158     28008                    0.00-   0.00   100.30
  9.890   9.890 (1.126)    77     35939                    0.00-   0.00   128.70
-------------------------------------------------------------------------------
  185 1,2,3-Trichloropropane                       CAS #: 96-18-4
  9.940   9.940 (1.132)   110     12021 2.00000    2.122   0.00-   0.00   100.00
  9.940   9.940 (1.132)    75     41900                    0.00-   0.00   348.56
  9.940   9.940 (1.132)    61     12031                    0.00-   0.00   100.08
-------------------------------------------------------------------------------
  187 Decane                                       CAS #: 124-18-5
  9.990   9.990 (1.138)    57     42512 2.00000    2.124   0.00-   0.00   100.00
  9.983   9.983 (1.137)    71     12477                    0.00-   0.00    29.35
  9.990   9.990 (1.138)   142      1836                    0.00-   0.00     4.32
-------------------------------------------------------------------------------
  189 2-Chlorotoluene                              CAS #: 95-49-8
 10.033  10.033 (1.143)   126     20878 2.00000    2.079   0.00-   0.00   100.00
 10.033  10.033 (1.143)    91     55013                    0.00-   0.00   263.50
 10.033  10.033 (1.143)    65      6316                    0.00-   0.00    30.25
-------------------------------------------------------------------------------
```

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

  191 4-Chlorotoluene                               CAS #: 106-43-4
 10.126  10.126 (1.153)   126     19690 2.00000    1.998   0.00-   0.00   100.00
 10.126  10.126 (1.153)    91     52792                    0.00-   0.00   268.12
 10.126  10.126 (1.153)    63      9624                    0.00-   0.00    48.88
-------------------------------------------------------------------------------
  195 tert-Butylbenzene                             CAS #: 98-06-6
 10.341  10.341 (1.178)   119     59505 2.00000    2.014   0.00-   0.00   100.00
 10.341  10.341 (1.178)   134     16399                    0.00-   0.00    27.56
 10.341  10.341 (1.178)    91     40176                    0.00-   0.00    67.52
-------------------------------------------------------------------------------
  197 Pentachloroethane                             CAS #: 76-01-7
 10.405  10.405 (1.185)   167     20585 2.00000    1.885   0.00-   0.00   100.00
 10.405  10.405 (1.185)   117     17000                    0.00-   0.00    82.58
 10.405  10.405 (1.185)   169     10246                    0.00-   0.00    49.77
-------------------------------------------------------------------------------
  199 D-Limonene                                    CAS #: 5989-27-5
 10.592  10.592 (1.206)    68     30302 2.00000    1.951   0.00-   0.00   100.00(a)
 10.599  10.599 (1.207)    93     61620                    0.00-   0.00   203.35
 10.592  10.592 (1.206)   136      6366                    0.00-   0.00    21.01
-------------------------------------------------------------------------------
  203 sec-Butylbenzene                              CAS #: 135-98-8
 10.527  10.527 (1.199)   134     21616 2.00000    2.134   0.00-   0.00   100.00
 10.527  10.527 (1.199)   105     97919                    0.00-   0.00   452.99
 10.527  10.527 (1.199)    91     14015                    0.00-   0.00    64.84
-------------------------------------------------------------------------------
  207 p-Cymene                                      CAS #: 99-87-6
 10.642  10.642 (1.212)   119     76157 2.00000    1.950   0.00-   0.00   100.00
 10.642  10.642 (1.212)   134     21534                    0.00-   0.00    28.28
 10.642  10.642 (1.212)    91     18527                    0.00-   0.00    24.33
-------------------------------------------------------------------------------
  210 1,2,3-Trimethylbenzene                        CAS #: 526-73-8
 10.764  10.764 (1.226)   120     29389 2.00000    2.017   0.00-   0.00   100.00
 10.764  10.764 (1.226)   105     67529                    0.00-   0.00   229.78
 10.764  10.764 (1.226)    77      9762                    0.00-   0.00    33.22
-------------------------------------------------------------------------------
  213 Butylbenzene                                  CAS #: 104-51-8
 10.993  10.993 (1.252)   134     23002 2.00000    2.054   0.00-   0.00   100.00
 10.993  10.993 (1.252)    91     75076                    0.00-   0.00   326.39
 10.993  10.993 (1.252)    92     37840                    0.00-   0.00   164.51
-------------------------------------------------------------------------------
  215 Undecane                                      CAS #: 1120-21-4
 10.986  10.986 (1.251)    57     94901 2.00000    3.047   0.00-   0.00   100.00
 10.986  10.986 (1.251)    43     80077                    0.00-   0.00    84.38
-------------------------------------------------------------------------------
  221 1,2-Dibromo-3-chloropropane                   CAS #: 96-12-8
 11.759  11.759 (1.339)   157     28951 2.00000    1.981   0.00-   0.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
221 1,2-Dibromo-3-chloropropane (continued)							
11.759	11.759 (1.339)	75	22009			0.00- 0.00	76.02
11.759	11.759 (1.339)	155	23368			0.00- 0.00	80.72
225 Dodecane					CAS #: 112-40-3		
11.902	11.902 (1.356)	57	33209	2.00000	2.147	0.00- 0.00	100.00
11.902	11.902 (1.356)	43	27964			0.00- 0.00	84.21

QC Flag Legend

T - Target compound detected outside RT window.
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: msdp.i
Lab File ID: p050405.d
Lab Smp Id: ICAL Level #3
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/04may16.b/p16q0407b.m
Misc Info: 2ppbv(5ppbv)

Calibration Date: 04-MAY-2016
Calibration Time: 09:37
Client Smp ID: ICAL Level #3
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	120249	72149	168349	128079	6.51
123 1,4-Difluorobenze	493488	296093	690883	507905	2.92
163 Chlorobenzene-d5	469333	281600	657066	478889	2.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/04may16.b/p050405.d

Date : 04-MAY-2016 11:28

Client ID: ICAL Level #3

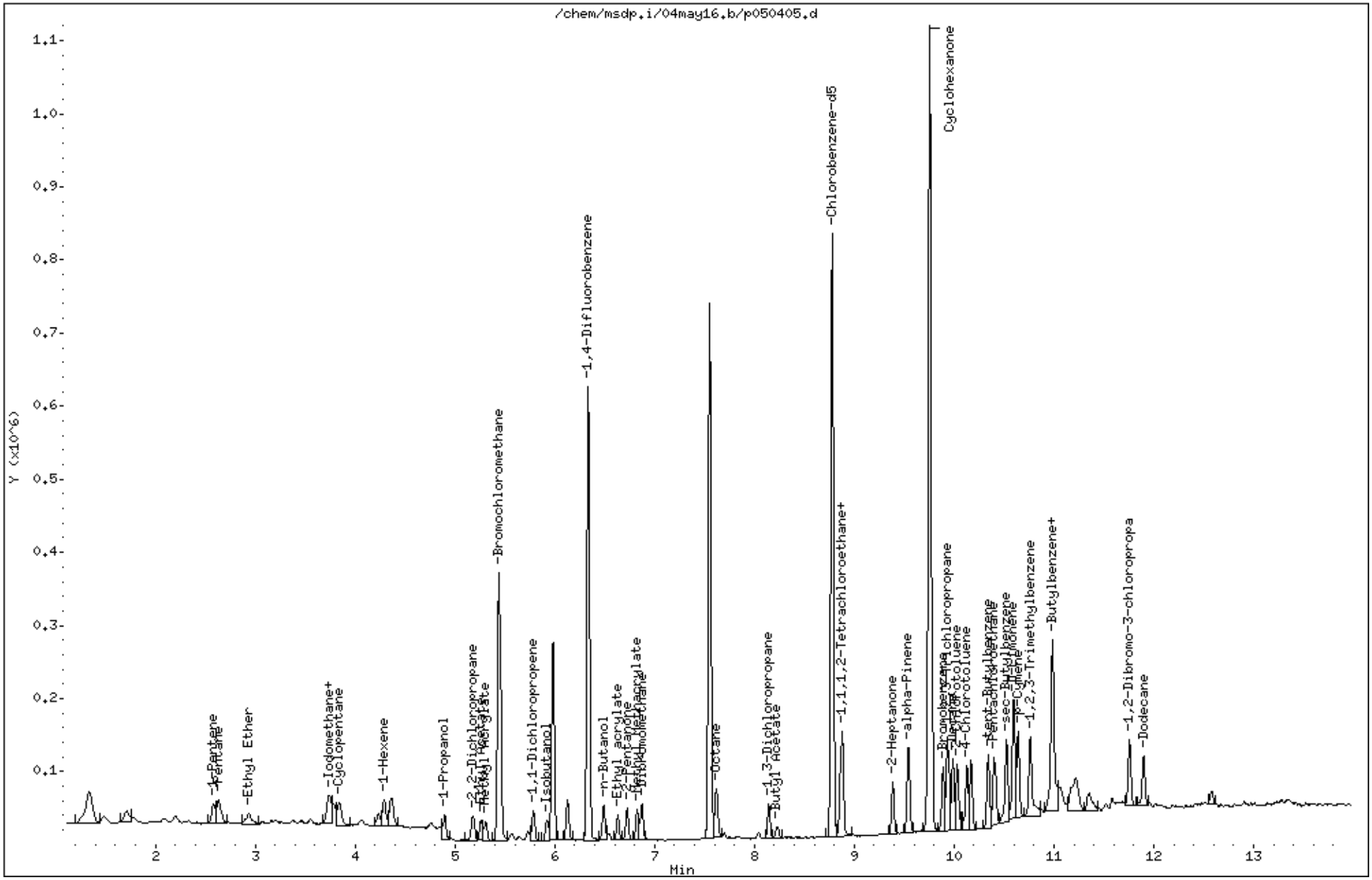
Sample Info: 80ml #2789-105

Column phase: RTX-624

Instrument: msdp.i

Operator: cb

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040710.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 07-APR-2016 16:15
Operator : cb Inst ID: msdp.i
Smp Info : 80ml #2789-53
Misc Info : 2.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 07-Apr-2016 19:25 troberts Quant Type: ISTD
Cal Date : 07-APR-2016 16:15 Cal File: p040710.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12mdl.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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.456	5.456 (1.000)	130	117716	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	93805			49.40- 109.40	79.69
5.449	5.449 (1.000)	49	220699			153.31- 213.31	187.48
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.337 (1.000)	114	471230	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	66619			0.00- 43.38	14.14
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.780	8.780 (1.000)	117	443739	25.0000		80.00- 120.00	100.00
8.780	8.780 (1.000)	82	228635			21.26- 81.26	51.52
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.097)	65	173155	25.0000	23.949	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	85450			25.58- 85.58	49.35
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.555	7.555 (1.192)	98	482666	25.0000	25.377	80.00- 120.00	100.00
7.555	7.555 (1.192)	70	52240			0.00- 40.37	10.82

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

$ 146 Toluene-d8 (continued)
  7.555   7.555 (1.192)   100    321307                    38.69-  98.69    66.57
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.761   9.761 (1.112)   174    360609 25.0000   24.852  80.00- 120.00   100.00
  9.754   9.754 (1.111)    95    331258                   59.95- 119.95    91.86
  9.761   9.761 (1.112)   176    343053                   67.47- 127.47    95.13
-------------------------------------------------------------------------------
    9 Propylene                                     CAS #: 115-07-1
  1.493   1.493 (0.274)    41     13820 2.00000    2.368  80.00- 120.00   100.00
  1.479   1.479 (0.271)    42      8997                    35.34-  95.34    65.10
  1.479   1.479 (0.271)    39     10149                    42.39- 102.39    73.44
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.521   1.521 (0.279)    85     30854 2.00000    2.278  80.00- 120.00   100.00
  1.521   1.521 (0.279)    87      8624                     2.43-  62.43    27.95
-------------------------------------------------------------------------------
   15 Freon 114                                     CAS #: 76-14-2
  1.647   1.647 (0.302)   135     25098 2.00000    2.356  80.00- 120.00   100.00
  1.647   1.647 (0.302)   137      6006                     1.44-  61.44    23.93
-------------------------------------------------------------------------------
   17 Chloromethane                                 CAS #: 74-87-3
  1.731   1.731 (0.317)    50     12822 2.00000    1.970  80.00- 120.00   100.00(a)
  1.731   1.731 (0.317)    52      5605                     1.49-  61.49    43.71
-------------------------------------------------------------------------------
   23 Butane                                        CAS #: 106-97-8
  1.801   1.801 (0.330)    58      2717 2.00000    1.978  80.00- 120.00   100.00(a)
  1.787   1.787 (0.327)    43     30016                   835.45- 895.45  1104.75
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                CAS #: 75-01-4
  1.829   1.829 (0.335)    62     13047 2.00000    2.140  80.00- 120.00   100.00
  1.829   1.829 (0.335)    64      3167                     0.00-  54.54    24.27
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                 CAS #: 106-99-0
  1.857   1.857 (0.340)    54     12777 2.00000    2.044  80.00- 120.00   100.00
  1.857   1.857 (0.340)    39     12868                   103.78- 163.78   100.71
-------------------------------------------------------------------------------
   29 Bromomethane                                  CAS #: 74-83-9
  2.218   2.218 (0.407)    94      8264 2.00000    2.039  80.00- 120.00   100.00(a)
  2.211   2.211 (0.405)    96      8283                    66.47- 126.47   100.23
-------------------------------------------------------------------------------
   30 Chloroethane                                  CAS #: 75-00-3
  2.326   2.326 (0.426)    64      5305 2.00000    2.058  80.00- 120.00   100.00
  2.326   2.326 (0.426)    66      2081                     0.00-  59.53    39.23
  2.333   2.333 (0.428)    49      2782                    11.61-  71.61    52.44
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	20018	2.00000	2.266	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	10456			31.35- 91.35	52.23
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	31166	2.00000	2.194	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	19955			35.01- 95.01	64.03
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	6438	2.00000	2.354	80.00- 120.00	100.00
2.870	2.870 (0.526)	43	1879			0.00- 51.15	29.19
2.891	2.891 (0.530)	46	1963			7.97- 67.97	30.49
49 Freon 113					CAS #: 76-13-1		
3.214	3.214 (0.589)	151	22955	2.00000	2.152	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	15535			33.63- 93.63	67.68
3.214	3.214 (0.589)	101	24700			73.82- 133.82	107.60
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	6841	2.00000	2.283	80.00- 120.00	100.00
3.250	3.250 (0.596)	96	11617			130.56- 190.56	169.81
3.242	3.242 (0.594)	61	21878			327.82- 387.82	319.81
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	8050	2.00000	2.542	80.00- 120.00	100.00(a)
3.386	3.386 (0.621)	43	32187			353.98- 413.98	399.84
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	32401	2.00000	2.408	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.558	3.558 (0.652)	45	38122	2.00000	2.774	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	8361			0.00- 50.28	21.93
3.550	3.550 (0.651)	59	922			0.00- 33.15	2.42
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	4474	2.00000	2.165	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	19780			425.37- 485.37	442.11
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.715)	49	21124	2.00000	2.326	80.00- 120.00	100.00(a)
3.901	3.901 (0.715)	84	9584			14.95- 74.95	45.37
3.909	3.909 (0.716)	51	6512			0.42- 60.42	30.83
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	30848	2.00000	2.232	80.00- 120.00	100.00

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

   71 tert-Butyl alcohol (continued)
  4.016   4.016 (0.736)    41      8179                     0.00-  53.41    26.51
  4.016   4.016 (0.736)    57      2829                     0.00-  41.73     9.17
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.124   4.124 (0.756)    73     29509 2.00000    2.108  80.00- 120.00   100.00
  4.124   4.124 (0.756)    57     10407                     2.37-  62.37    35.27
  4.124   4.124 (0.756)    41     12984                     4.37-  64.37    44.00
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.145   4.145 (0.760)    98      6363 2.00000    2.121  80.00- 120.00   100.00
  4.145   4.145 (0.760)    61     21090                   269.90- 329.90   331.45
  4.145   4.145 (0.760)    96     11022                   127.45- 187.45   173.22
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.367   4.367 (0.800)    57     23228 2.00000    2.212  80.00- 120.00   100.00
  4.367   4.367 (0.800)    43     16959                    40.99- 100.99    73.01
  4.360   4.360 (0.799)    86      2433                     0.00-  40.81    10.47
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.639   4.639 (0.850)    63     23355 2.00000    2.164  80.00- 120.00   100.00
  4.639   4.639 (0.850)    65      7166                     0.00-  58.37    30.68
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.850)    45     56226 2.00000    2.192  80.00- 120.00   100.00
  4.639   4.639 (0.850)    87      8912                     0.00-  47.04    15.85
  4.639   4.639 (0.850)    59      5608                     0.00-  39.86     9.97
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.682   4.682 (0.858)    86      2852 2.00000    2.228  80.00- 120.00   100.00
  4.682   4.682 (0.858)    43     51929                  1833.17-1893.17  1820.79
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.997   4.997 (0.916)    59     43662 2.00000    2.091  80.00- 120.00   100.00
  4.997   4.997 (0.916)    87     14691                     1.48-  61.48    33.65
  4.997   4.997 (0.916)    41     11191                     0.00-  51.50    25.63
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.219   5.219 (0.957)    98      7730 2.00000    2.530  80.00- 120.00   100.00
  5.219   5.219 (0.957)    96     11527                   124.70- 184.70   149.12
  5.219   5.219 (0.957)    61     18242                   233.87- 293.87   235.99
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.248   5.248 (0.962)    72      5288 2.00000    2.227  80.00- 120.00   100.00
  5.248   5.248 (0.962)    43     34263                   611.89- 671.89   647.94
  5.248   5.248 (0.962)    57      2937                    17.72-  77.72    55.54
-------------------------------------------------------------------------------
```

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

   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.449   5.449 (0.999)    42     17869 2.00000    2.177  80.00- 120.00   100.00
  5.449   5.449 (0.999)    71      4467                     0.00-  53.97    25.00
  5.449   5.449 (0.999)    72      4532                     0.00-  55.92    25.36
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.513   5.513 (1.010)    83     22997 2.00000    2.246  80.00- 120.00   100.00
  5.513   5.513 (1.010)    85     15565                    35.28-  95.28    67.68
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.621   5.621 (1.030)    84     13745 2.00000    2.088  80.00- 120.00   100.00
  5.621   5.621 (1.030)    56     25129                   138.21- 198.21   182.82
  5.628   5.628 (1.032)    41     19024                    72.24- 132.24   138.41
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                         CAS #: 71-55-6
  5.642   5.642 (1.034)    97     26089 2.00000    2.198  80.00- 120.00   100.00
  5.642   5.642 (1.034)    99     16784                    33.83-  93.83    64.33
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                          CAS #: 56-23-5
  5.757   5.757 (1.055)   119     26655 2.00000    2.135  80.00- 120.00   100.00
  5.757   5.757 (1.055)   117     29157                    74.93- 134.93   109.39
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.957   5.957 (1.092)    57     72891 2.00000    2.056  80.00- 120.00   100.00
  5.957   5.957 (1.092)    56     26192                     2.51-  62.51    35.93
  5.964   5.964 (1.093)    41     22561                     0.00-  58.92    30.95
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.972   5.972 (0.942)    78     32233 2.00000    2.219  80.00- 120.00   100.00
  5.972   5.972 (0.942)    77      8028                     0.00-  54.04    24.91
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                        CAS #: 994-05-8
  6.043   6.043 (0.954)    87      7906 2.00000    2.109  80.00- 120.00   100.00
  6.043   6.043 (0.954)    73     29381                   379.76- 439.76   371.63
  6.043   6.043 (0.954)    55     12769                   114.37- 174.37   161.51
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                            CAS #: 107-06-2
  6.050   6.050 (0.955)    62     17780 2.00000    2.049  80.00- 120.00   100.00
  6.050   6.050 (0.955)    64      6274                     0.59-  60.59    35.29
-------------------------------------------------------------------------------
  121 Heptane                                       CAS #: 142-82-5
  6.129   6.129 (0.967)    71     11345 2.00000    2.090  80.00- 120.00   100.00
  6.129   6.129 (0.967)    43     28352                   231.64- 291.64   249.91
  6.129   6.129 (0.967)    57     15677                   103.28- 163.28   138.18
-------------------------------------------------------------------------------
  125 Trichloroethene                               CAS #: 79-01-6
  6.537   6.537 (1.032)    95     16990 2.00000    2.382  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.537	6.537 (1.032)	130	15918			82.18- 142.18	93.69
6.537	6.537 (1.032)	97	10539			33.62- 93.62	62.03
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.049)	83	20286	2.00000	2.126	80.00- 120.00	100.00
6.645	6.645 (1.049)	98	8318			16.98- 76.98	41.00
6.638	6.638 (1.047)	55	22177			83.20- 143.20	109.32
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.767	6.767 (1.068)	63	15308	2.00000	2.199	80.00- 120.00	100.00
6.767	6.767 (1.068)	62	10052			41.70- 101.70	65.67
6.767	6.767 (1.068)	41	13378			41.13- 101.13	87.39
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.083)	88	8416	2.00000	2.314	80.00- 120.00	100.00
6.860	6.860 (1.083)	58	7495			62.32- 122.32	89.06
6.853	6.853 (1.081)	57	3152			3.20- 63.20	37.45
138 Bromodichloromethane					CAS #: 75-27-4		
6.989	6.989 (1.103)	83	25470	2.00000	2.187	80.00- 120.00	100.00
6.989	6.989 (1.103)	85	16980			35.75- 95.75	66.67
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.163)	75	21210	2.00000	2.192	80.00- 120.00	100.00
7.368	7.368 (1.163)	77	6477			0.75- 60.75	30.54
7.368	7.368 (1.163)	39	15858			45.96- 105.96	74.77
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.181)	58	13011	2.00000	1.999	80.00- 120.00	100.00
7.483	7.483 (1.181)	43	40603			264.26- 324.26	312.07
7.483	7.483 (1.181)	85	3626			3.08- 63.08	27.87
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.201)	91	43147	2.00000	2.158	80.00- 120.00	100.00
7.612	7.612 (1.201)	92	24981			28.28- 88.28	57.90
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	19889	2.00000	2.180	80.00- 120.00	100.00
7.848	7.848 (0.894)	77	7495			0.54- 60.54	37.68
7.841	7.841 (0.893)	39	14474			41.71- 101.71	72.77
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.999	7.999 (0.911)	97	14688	2.00000	2.147	80.00- 120.00	100.00
7.999	7.999 (0.911)	99	9319			33.23- 93.23	63.45
7.999	7.999 (0.911)	83	12124			57.40- 117.40	82.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.917)	166	24822	2.00000	2.040	80.00- 120.00	100.00
8.042	8.042 (0.916)	129	16694			34.91- 94.91	67.25
8.049	8.049 (0.917)	131	15075			34.35- 94.35	60.73
158 2-Hexanone					CAS #: 591-78-6		
8.171	8.171 (0.931)	58	18046	2.00000	1.996	80.00- 120.00	100.00(a)
8.171	8.171 (0.931)	43	42483			175.82- 235.82	235.42
8.171	8.171 (0.931)	100	2916			0.00- 45.85	16.16
160 Dibromochloromethane					CAS #: 124-48-1		
8.307	8.307 (0.946)	129	29912	2.00000	2.065	80.00- 120.00	100.00
8.307	8.307 (0.946)	127	23078			48.31- 108.31	77.15
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.421	8.421 (0.959)	107	24061	2.00000	2.166	80.00- 120.00	100.00
8.421	8.421 (0.959)	109	22787			65.63- 125.63	94.71
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.801 (1.002)	112	38384	2.00000	2.179	80.00- 120.00	100.00
8.801	8.801 (1.002)	114	11492			1.89- 61.89	29.94
8.801	8.801 (1.002)	77	24629			22.59- 82.59	64.16
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	18038	2.00000	2.013	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	55598			277.26- 337.26	308.23
169 m,p-Xylene					CAS #: 108-38-3		
8.959	8.959 (1.020)	106	22136	2.00000	2.003	80.00- 120.00	100.00
8.951	8.951 (1.020)	91	42961			167.63- 227.63	194.08
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.059)	106	21127	2.00000	2.060	80.00- 120.00	100.00
9.295	9.295 (1.059)	91	45502			178.91- 238.91	215.37
172 Styrene					CAS #: 100-42-5		
9.310	9.310 (1.060)	104	33215	2.00000	2.010	80.00- 120.00	100.00
9.310	9.310 (1.060)	78	16039			15.94- 75.94	48.29
174 Bromoform					CAS #: 75-25-2		
9.503	9.503 (1.082)	173	36342	2.00000	2.063	80.00- 120.00	100.00
9.503	9.503 (1.082)	171	18056			21.13- 81.13	49.68
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.091)	105	66083	2.00000	2.025	80.00- 120.00	100.00
9.582	9.582 (1.091)	120	19150			0.00- 57.59	28.98

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

  175 Cumene (continued)
  9.575   9.575 (1.091)    51     10024                     0.00-  43.20    15.17
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.883   9.883 (1.126)    83     35741 2.00000    2.164  80.00- 120.00   100.00
  9.883   9.883 (1.126)    85     21924                    35.30-  95.30    61.34
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.918   9.918 (1.130)    91     79337 2.00000    1.992  80.00- 120.00   100.00
  9.918   9.918 (1.130)   120     21375                     0.00-  54.24    26.94
  9.918   9.918 (1.130)   105      3075                     0.00-  33.65     3.88
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
 10.012  10.012 (1.140)   120     21214 2.00000    2.003  80.00- 120.00   100.00
 10.012  10.012 (1.140)   105     66106                   283.78- 343.78   311.61
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.069  10.069 (1.147)   120     28099 2.00000    1.976  80.00- 120.00   100.00
 10.069  10.069 (1.147)   105     59109                   172.79- 232.79   210.36
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.391  10.391 (1.184)   120     27745 2.00000    2.156  80.00- 120.00   100.00
 10.391  10.391 (1.184)   105     54328                   186.10- 246.10   195.81
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.678  10.678 (1.216)   146     45525 2.00000    2.048  80.00- 120.00   100.00
 10.671  10.671 (1.215)   148     29810                    34.63-  94.63    65.48
 10.671  10.671 (1.215)   111     17285                     7.17-  67.17    37.97
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.757  10.757 (1.225)   146     46856 2.00000    2.064  80.00- 120.00   100.00
 10.757  10.757 (1.225)   148     28179                    33.55-  93.55    60.14
 10.757  10.757 (1.225)   111     17077                     4.50-  64.50    36.45
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.871  10.871 (1.238)    91     61467 2.00000    2.128  80.00- 120.00   100.00
 10.871  10.871 (1.238)   126     13463                     0.00-  52.80    21.90
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.079  11.079 (1.262)   146     45013 2.00000    2.112  80.00- 120.00   100.00
 11.079  11.079 (1.262)   148     27702                    33.56-  93.56    61.54
 11.079  11.079 (1.262)   111     16349                     7.11-  67.11    36.32
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.483  12.483 (1.422)   180     45453 2.00000    1.986  80.00- 120.00   100.00(a)
 12.483  12.483 (1.422)   182     44440                    66.05- 126.05    97.77
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.576	12.576 (1.432)	225	40663	2.00000	1.978	80.00- 120.00	100.00(a)
12.576	12.576 (1.432)	223	24970			31.76- 91.76	61.41
228 Naphthalene					CAS #: 91-20-3		
12.741	12.741 (1.451)	128	6939	0.20000	0.1954	80.00- 120.00	100.00(a)
12.741	12.741 (1.451)	127	2116			0.00- 43.45	30.49

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: msdp.i
Lab File ID: p040710.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 2.0ppbv(5.0ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

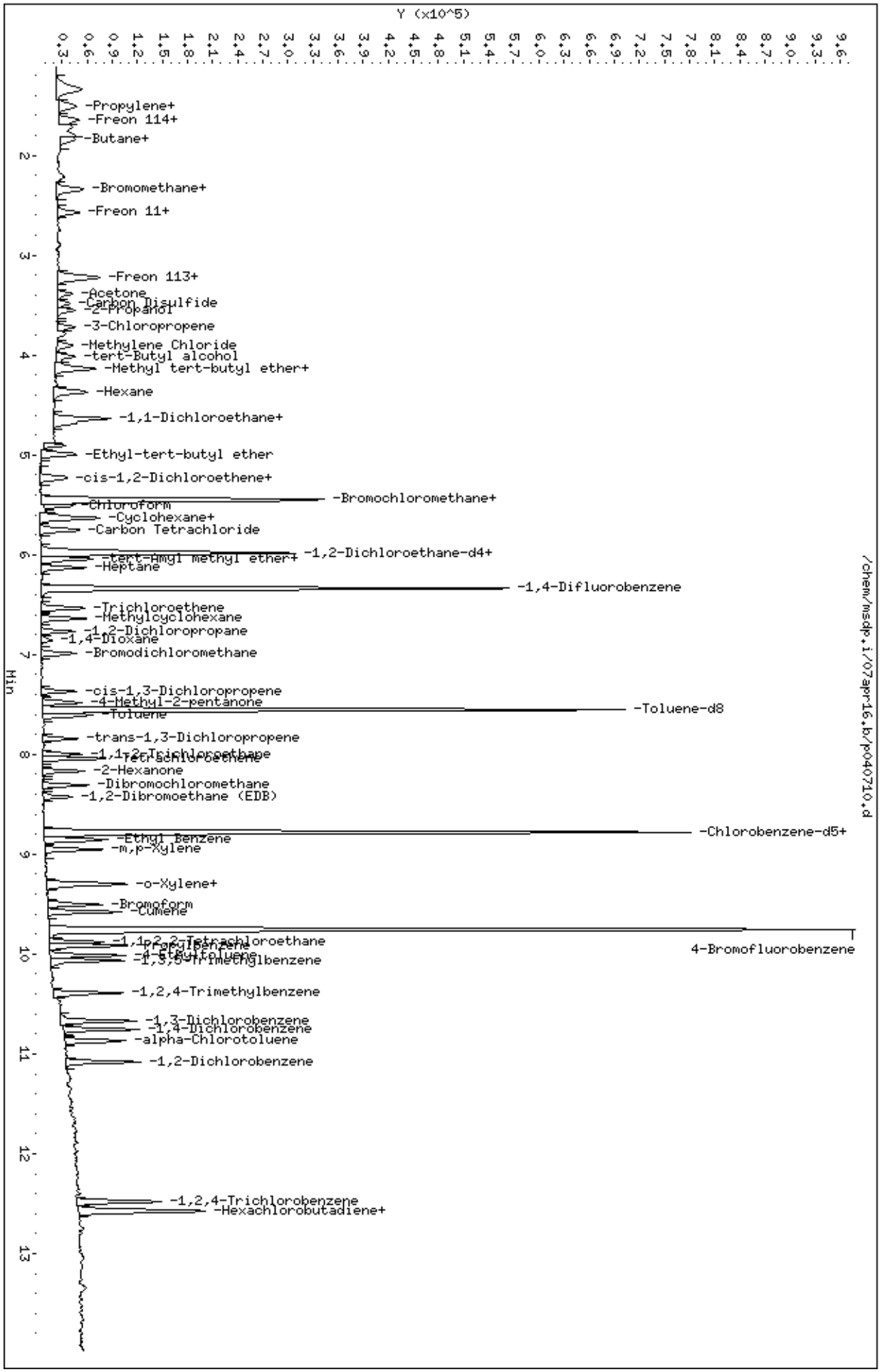
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	117716	-0.88
123 1,4-Difluorobenze	479982	287989	671975	471230	-1.82
163 Chlorobenzene-d5	441761	265057	618465	443739	0.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	-0.11
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/07apr16.b/p040710.d
Date : 07-APR-2016 16:15
Client ID: Level 3
Sample Info: 80ml #2789-53
Column phase: RTX-624

Instrument: msdp.i
Operator: cb
Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/12jul16.b/p071206.d
Lab Smp Id: ICAL level 4
Inj Date : 12-JUL-2016 13:35
Operator : gd Inst ID: msdp.i
Smp Info : 200ml 2789-151
Misc Info : 5.0ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/12jul16.b/p16q0407e.m
Meth Date : 12-Jul-2016 16:15 gdelacru Quant Type: ISTD
Cal Date : 12-JUL-2016 13:35 Cal File: p071206.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AnitrileICAL.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
63 Acetonitrile					CAS #: 75-05-8		
3.801	3.801 (0.699)	39	7018	5.00000	5.585	0.00- 0.00	100.00(T)
3.801	3.801 (0.699)	41	30440			0.00- 0.00	433.74
0.000	1.000 (0.000)	40	0			0.00- 0.00	0.00
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	101693	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	76055			49.40- 109.40	74.79
5.441	5.441 (1.000)	49	221283			153.31- 213.31	217.60
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	395781	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	55707			0.00- 43.38	14.08
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.772	8.772 (1.000)	117	373020	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	195662			21.26- 81.26	52.45

QC Flag Legend

T - Target compound detected outside RT window.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071206.d
Lab Smp Id: ICAL level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/12jul16.b/p16q0407e.m
Misc Info: 5.0ppbv

Calibration Date: 12-JUL-2016
Calibration Time: 09:40

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	92780	55668	129892	101693	9.61
123 1,4-Difluorobenze	396495	237897	555093	395781	-0.18
163 Chlorobenzene-d5	359757	215854	503660	373020	3.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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/msdp.i/12jul16.b/p071206.d

Date : 12-JUL-2016 13:35

Client ID:

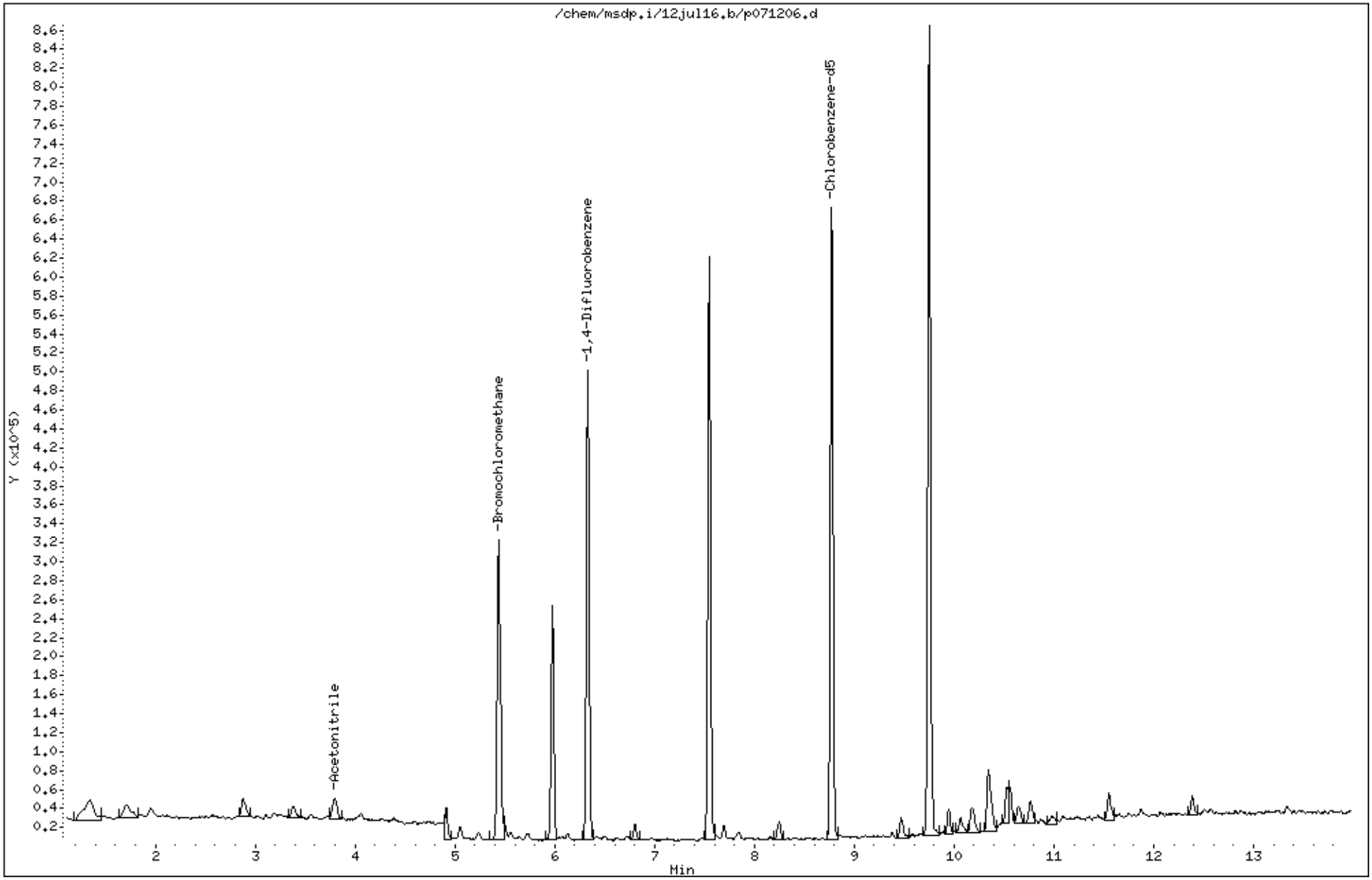
Instrument: msdp.i

Sample Info: 200ml 2789-151

Operator: gd

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040711.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 07-APR-2016 16:41
Operator : cb Inst ID: msdp.i
Smp Info : 200ml #2789-53
Misc Info : 5.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 07-Apr-2016 19:26 troberts Quant Type: ISTD
Cal Date : 07-APR-2016 16:41 Cal File: p040711.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12mdl.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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.456	5.456 (1.000)	130	120182	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	91220			49.40- 109.40	75.90
5.456	5.456 (1.000)	49	224232			153.31- 213.31	186.58
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.344 (1.000)	114	474835	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	67193			0.00- 43.38	14.15
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	452480	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	228466			21.26- 81.26	50.49
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.097)	65	175039	25.0000	23.712	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	85381			25.58- 85.58	48.78
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.554	7.554 (1.191)	98	475207	25.0000	24.795	80.00- 120.00	100.00
7.554	7.554 (1.191)	70	51773			0.00- 40.37	10.89

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

$ 146 Toluene-d8 (continued)
  7.554   7.554 (1.191)   100    315797                    38.69-  98.69    66.45
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.761   9.761 (1.112)   174    355268 25.0000   24.011  80.00- 120.00   100.00
  9.761   9.761 (1.112)    95    332911                   59.95- 119.95    93.71
  9.761   9.761 (1.112)   176    347327                   67.47- 127.47    97.76
-------------------------------------------------------------------------------
    9 Propylene                                     CAS #: 115-07-1
  1.479   1.479 (0.271)    41     31683 5.00000    5.316  80.00- 120.00   100.00
  1.493   1.493 (0.274)    42     21710                   35.34-  95.34    68.52
  1.479   1.479 (0.271)    39     24506                   42.39- 102.39    77.35
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.521   1.521 (0.279)    85     77292 5.00000    5.589  80.00- 120.00   100.00
  1.521   1.521 (0.279)    87     23573                    2.43-  62.43    30.50
-------------------------------------------------------------------------------
   15 Freon 114                                     CAS #: 76-14-2
  1.646   1.646 (0.302)   135     59011 5.00000    5.426  80.00- 120.00   100.00
  1.633   1.633 (0.299)   137     18317                    1.44-  61.44    31.04
-------------------------------------------------------------------------------
   17 Chloromethane                                 CAS #: 74-87-3
  1.730   1.730 (0.317)    50     30696 5.00000    4.621  80.00- 120.00   100.00(a)
  1.730   1.730 (0.317)    52     10016                    1.49-  61.49    32.63
-------------------------------------------------------------------------------
   23 Butane                                        CAS #: 106-97-8
  1.786   1.786 (0.327)    58      7744 5.00000    5.522  80.00- 120.00   100.00
  1.800   1.800 (0.330)    43     68292                  835.45- 895.45   881.87
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                CAS #: 75-01-4
  1.828   1.828 (0.335)    62     32204 5.00000    5.174  80.00- 120.00   100.00
  1.828   1.828 (0.335)    64      9674                    0.00-  54.54    30.04
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                 CAS #: 106-99-0
  1.856   1.856 (0.340)    54     40096 5.00000    6.281  80.00- 120.00   100.00
  1.856   1.856 (0.340)    39     52203                  103.78- 163.78   130.20
-------------------------------------------------------------------------------
   29 Bromomethane                                  CAS #: 74-83-9
  2.211   2.211 (0.405)    94     20190 5.00000    4.880  80.00- 120.00   100.00(a)
  2.211   2.211 (0.405)    96     18885                   66.47- 126.47    93.54
-------------------------------------------------------------------------------
   30 Chloroethane                                  CAS #: 75-00-3
  2.318   2.318 (0.425)    64     13987 5.00000    5.314  80.00- 120.00   100.00
  2.318   2.318 (0.425)    66      4547                    0.00-  59.53    32.51
  2.325   2.325 (0.426)    49      6520                   11.61-  71.61    46.61
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.429)	43	50649	5.00000	5.617	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	27262			31.35- 91.35	53.83
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	78922	5.00000	5.443	80.00- 120.00	100.00
2.569	2.569 (0.471)	103	50956			35.01- 95.01	64.57
42 Ethanol					CAS #: 64-17-5		
2.898	2.898 (0.531)	45	13766	5.00000	4.930	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	3420			0.00- 51.15	24.84
2.898	2.898 (0.531)	46	5485			7.97- 67.97	39.84
49 Freon 113					CAS #: 76-13-1		
3.214	3.214 (0.589)	151	60015	5.00000	5.511	80.00- 120.00	100.00
3.214	3.214 (0.589)	153	39559			33.63- 93.63	65.92
3.214	3.214 (0.589)	101	61954			73.82- 133.82	103.23
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	17049	5.00000	5.574	80.00- 120.00	100.00
3.242	3.242 (0.594)	96	25313			130.56- 190.56	148.47
3.242	3.242 (0.594)	61	58003			327.82- 387.82	340.21
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.622)	58	17987	5.00000	5.563	80.00- 120.00	100.00
3.393	3.393 (0.622)	43	72758			353.98- 413.98	404.50
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	77775	5.00000	5.661	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.557	3.557 (0.652)	45	71587	5.00000	5.102	80.00- 120.00	100.00
3.557	3.557 (0.652)	43	13765			0.00- 50.28	19.23
3.543	3.543 (0.649)	59	2581			0.00- 33.15	3.61
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	11834	5.00000	5.608	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	52829			425.37- 485.37	446.42
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.716)	49	52442	5.00000	5.656	80.00- 120.00	100.00
3.908	3.908 (0.716)	84	24323			14.95- 74.95	46.38
3.908	3.908 (0.716)	51	15887			0.42- 60.42	30.29
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	74326	5.00000	5.267	80.00- 120.00	100.00

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

   71 tert-Butyl alcohol (continued)
  4.016   4.016 (0.736)    41     20429                     0.00-  53.41    27.49
  4.016   4.016 (0.736)    57      8381                     0.00-  41.73    11.28
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.123   4.123 (0.756)    73     72372 5.00000    5.064  80.00- 120.00   100.00
  4.123   4.123 (0.756)    57     25887                     2.37-  62.37    35.77
  4.123   4.123 (0.756)    41     27366                     4.37-  64.37    37.81
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.145   4.145 (0.760)    98     16714 5.00000    5.456  80.00- 120.00   100.00
  4.145   4.145 (0.760)    61     50517                   269.90- 329.90   302.24
  4.145   4.145 (0.760)    96     27991                   127.45- 187.45   167.47
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.367   4.367 (0.800)    57     55353 5.00000    5.163  80.00- 120.00   100.00
  4.367   4.367 (0.800)    43     40886                    40.99- 100.99    73.86
  4.374   4.374 (0.802)    86      5852                     0.00-  40.81    10.57
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.639   4.639 (0.850)    63     62686 5.00000    5.688  80.00- 120.00   100.00
  4.639   4.639 (0.850)    65     16587                     0.00-  58.37    26.46
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.850)    45    134642 5.00000    5.141  80.00- 120.00   100.00
  4.639   4.639 (0.850)    87     22451                     0.00-  47.04    16.67
  4.639   4.639 (0.850)    59     12303                     0.00-  39.86     9.14
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.682   4.682 (0.858)    86      6892 5.00000    5.275  80.00- 120.00   100.00
  4.682   4.682 (0.858)    43    130086                  1833.17-1893.17  1887.49
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.997   4.997 (0.916)    59    112170 5.00000    5.262  80.00- 120.00   100.00
  4.997   4.997 (0.916)    87     34102                     1.48-  61.48    30.40
  4.997   4.997 (0.916)    41     24879                     0.00-  51.50    22.18
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.219   5.219 (0.957)    98     17700 5.00000    5.674  80.00- 120.00   100.00
  5.219   5.219 (0.957)    96     28995                   124.70- 184.70   163.81
  5.219   5.219 (0.957)    61     49136                   233.87- 293.87   277.60
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.248   5.248 (0.962)    72     14099 5.00000    5.815  80.00- 120.00   100.00
  5.248   5.248 (0.962)    43     85280                   611.89- 671.89   604.87
  5.248   5.248 (0.962)    57      6214                    17.72-  77.72    44.07
-------------------------------------------------------------------------------
```

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

   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.449   5.449 (0.999)    42     43730 5.00000    5.218  80.00- 120.00   100.00
  5.449   5.449 (0.999)    71     12121                    0.00-  53.97    27.72
  5.449   5.449 (0.999)    72     12482                    0.00-  55.92    28.54
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.513   5.513 (1.010)    83     58732 5.00000    5.619  80.00- 120.00   100.00
  5.513   5.513 (1.010)    85     38993                   35.28-  95.28    66.39
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.628   5.628 (1.032)    84     35152 5.00000    5.230  80.00- 120.00   100.00
  5.628   5.628 (1.032)    56     63416                  138.21- 198.21   180.41
  5.628   5.628 (1.032)    41     40036                   72.24- 132.24   113.89
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                         CAS #: 71-55-6
  5.642   5.642 (1.034)    97     64561 5.00000    5.327  80.00- 120.00   100.00
  5.642   5.642 (1.034)    99     40690                   33.83-  93.83    63.03
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                          CAS #: 56-23-5
  5.757   5.757 (1.055)   119     67815 5.00000    5.320  80.00- 120.00   100.00
  5.757   5.757 (1.055)   117     71817                   74.93- 134.93   105.90
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.964   5.964 (1.093)    57    185630 5.00000    5.128  80.00- 120.00   100.00
  5.964   5.964 (1.093)    56     63601                    2.51-  62.51    34.26
  5.957   5.957 (1.092)    41     53866                    0.00-  58.92    29.02
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.971   5.971 (0.941)    78     81875 5.00000    5.594  80.00- 120.00   100.00
  5.971   5.971 (0.941)    77     19185                    0.00-  54.04    23.43
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                        CAS #: 994-05-8
  6.043   6.043 (0.953)    87     19691 5.00000    5.212  80.00- 120.00   100.00
  6.043   6.043 (0.953)    73     79878                  379.76- 439.76   405.66
  6.043   6.043 (0.953)    55     30405                  114.37- 174.37   154.41
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                            CAS #: 107-06-2
  6.057   6.057 (0.955)    62     50950 5.00000    5.828  80.00- 120.00   100.00
  6.057   6.057 (0.955)    64     15940                    0.59-  60.59    31.29
-------------------------------------------------------------------------------
  121 Heptane                                       CAS #: 142-82-5
  6.129   6.129 (0.966)    71     27883 5.00000    5.099  80.00- 120.00   100.00
  6.129   6.129 (0.966)    43     72395                  231.64- 291.64   259.64
  6.129   6.129 (0.966)    57     35598                  103.28- 163.28   127.67
-------------------------------------------------------------------------------
  125 Trichloroethene                               CAS #: 79-01-6
  6.537   6.537 (1.030)    95     40921 5.00000    5.694  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.537	6.537 (1.030)	130	43897			82.18- 142.18	107.27
6.537	6.537 (1.030)	97	25649			33.62- 93.62	62.68
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	51980	5.00000	5.408	80.00- 120.00	100.00
6.638	6.638 (1.046)	98	25068			16.98- 76.98	48.23
6.645	6.645 (1.047)	55	57735			83.20- 143.20	111.07
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.767	6.767 (1.067)	63	38060	5.00000	5.426	80.00- 120.00	100.00
6.767	6.767 (1.067)	62	28329			41.70- 101.70	74.43
6.767	6.767 (1.067)	41	27345			41.13- 101.13	71.85
136 1,4-Dioxane					CAS #: 123-91-1		
6.852	6.852 (1.080)	88	19538	5.00000	5.332	80.00- 120.00	100.00
6.852	6.852 (1.080)	58	18302			62.32- 122.32	93.67
6.852	6.852 (1.080)	57	7189			3.20- 63.20	36.79
138 Bromodichloromethane					CAS #: 75-27-4		
6.989	6.989 (1.102)	83	66412	5.00000	5.660	80.00- 120.00	100.00
6.989	6.989 (1.102)	85	41549			35.75- 95.75	62.56
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.161)	75	50737	5.00000	5.205	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	14709			0.75- 60.75	28.99
7.368	7.368 (1.161)	39	41468			45.96- 105.96	81.73
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	34800	5.00000	5.307	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	102104			264.26- 324.26	293.40
7.483	7.483 (1.180)	85	10579			3.08- 63.08	30.40
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	105713	5.00000	5.248	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	63388			28.28- 88.28	59.96
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	49253	5.00000	5.295	80.00- 120.00	100.00
7.841	7.841 (0.893)	77	16300			0.54- 60.54	33.09
7.841	7.841 (0.893)	39	37667			41.71- 101.71	76.48
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.999	7.999 (0.911)	97	37187	5.00000	5.330	80.00- 120.00	100.00
7.999	7.999 (0.911)	99	22901			33.23- 93.23	61.58
7.999	7.999 (0.911)	83	33064			57.40- 117.40	88.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.917)	166	68675	5.00000	5.535	80.00- 120.00	100.00
8.042	8.042 (0.916)	129	43150			34.91- 94.91	62.83
8.042	8.042 (0.916)	131	43599			34.35- 94.35	63.49
158 2-Hexanone					CAS #: 591-78-6		
8.170	8.170 (0.931)	58	48484	5.00000	5.258	80.00- 120.00	100.00
8.170	8.170 (0.931)	43	101865			175.82- 235.82	210.10
8.170	8.170 (0.931)	100	7630			0.00- 45.85	15.74
160 Dibromochloromethane					CAS #: 124-48-1		
8.307	8.307 (0.946)	129	80442	5.00000	5.447	80.00- 120.00	100.00
8.307	8.307 (0.946)	127	60808			48.31- 108.31	75.59
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.421	8.421 (0.959)	107	58458	5.00000	5.161	80.00- 120.00	100.00
8.421	8.421 (0.959)	109	55434			65.63- 125.63	94.83
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.801 (1.002)	112	91674	5.00000	5.104	80.00- 120.00	100.00
8.801	8.801 (1.002)	114	30542			1.89- 61.89	33.32
8.801	8.801 (1.002)	77	55349			22.59- 82.59	60.38
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	44628	5.00000	4.885	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	138754			277.26- 337.26	310.91
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.958 (1.020)	106	58624	5.00000	5.203	80.00- 120.00	100.00
8.951	8.951 (1.020)	91	110781			167.63- 227.63	188.97
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.059)	106	52999	5.00000	5.069	80.00- 120.00	100.00
9.295	9.295 (1.059)	91	110402			178.91- 238.91	208.31
172 Styrene					CAS #: 100-42-5		
9.309	9.309 (1.060)	104	85157	5.00000	5.052	80.00- 120.00	100.00
9.309	9.309 (1.060)	78	41621			15.94- 75.94	48.88
174 Bromoform					CAS #: 75-25-2		
9.503	9.503 (1.082)	173	90563	5.00000	5.041	80.00- 120.00	100.00
9.503	9.503 (1.082)	171	46136			21.13- 81.13	50.94
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.091)	105	166205	5.00000	4.994	80.00- 120.00	100.00
9.582	9.582 (1.091)	120	45160			0.00- 57.59	27.17

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

  175 Cumene (continued)
  9.582   9.582 (1.091)    51     23239                     0.00-  43.20    13.98
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.882   9.882 (1.126)    83     84047 5.00000    4.990  80.00- 120.00   100.00
  9.882   9.882 (1.126)    85     52390                    35.30-  95.30    62.33
-------------------------------------------------------------------------------
  182 Propylbenzene                                CAS #: 103-65-1
  9.918   9.918 (1.130)    91    204525 5.00000    5.035  80.00- 120.00   100.00
  9.918   9.918 (1.130)   120     48538                     0.00-  54.24    23.73
  9.918   9.918 (1.130)   105      8108                     0.00-  33.65     3.96
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                               CAS #: 622-96-8
 10.019  10.019 (1.141)   120     52435 5.00000    4.854  80.00- 120.00   100.00
 10.011  10.011 (1.140)   105    170242                   283.78- 343.78   324.67
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
 10.069  10.069 (1.147)   120     72617 5.00000    5.009  80.00- 120.00   100.00
 10.069  10.069 (1.147)   105    146101                   172.79- 232.79   201.19
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
 10.391  10.391 (1.184)   120     63459 5.00000    4.836  80.00- 120.00   100.00
 10.391  10.391 (1.184)   105    142110                   186.10- 246.10   223.94
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                          CAS #: 541-73-1
 10.678  10.678 (1.216)   146    112755 5.00000    4.975  80.00- 120.00   100.00
 10.678  10.678 (1.216)   148     73623                    34.63-  94.63    65.29
 10.670  10.670 (1.215)   111     39701                     7.17-  67.17    35.21
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                          CAS #: 106-46-7
 10.756  10.756 (1.225)   146    117099 5.00000    5.058  80.00- 120.00   100.00
 10.756  10.756 (1.225)   148     71300                    33.55-  93.55    60.89
 10.756  10.756 (1.225)   111     40189                     4.50-  64.50    34.32
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.871  10.871 (1.238)    91    146829 5.00000    4.985  80.00- 120.00   100.00
 10.871  10.871 (1.238)   126     31451                     0.00-  52.80    21.42
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                          CAS #: 95-50-1
 11.079  11.079 (1.262)   146    108338 5.00000    4.985  80.00- 120.00   100.00
 11.079  11.079 (1.262)   148     69207                    33.56-  93.56    63.88
 11.079  11.079 (1.262)   111     41676                     7.11-  67.11    38.47
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 12.483  12.483 (1.422)   180    115101 5.00000    4.931  80.00- 120.00   100.00
 12.483  12.483 (1.422)   182    113076                    66.05- 126.05    98.24
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.576	12.576 (1.432)	225	107514	5.00000	5.128	80.00- 120.00	100.00
12.576	12.576 (1.432)	223	69764			31.76- 91.76	64.89
228 Naphthalene					CAS #: 91-20-3		
12.748	12.748 (1.452)	128	17689	0.50000	0.4886	80.00- 120.00	100.00(a)
12.748	12.748 (1.452)	127	3166			0.00- 43.45	17.90

QC Flag Legend

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

Report Date: 07-Apr-2016 19:26

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p040711.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 5.0ppbv(5.0ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

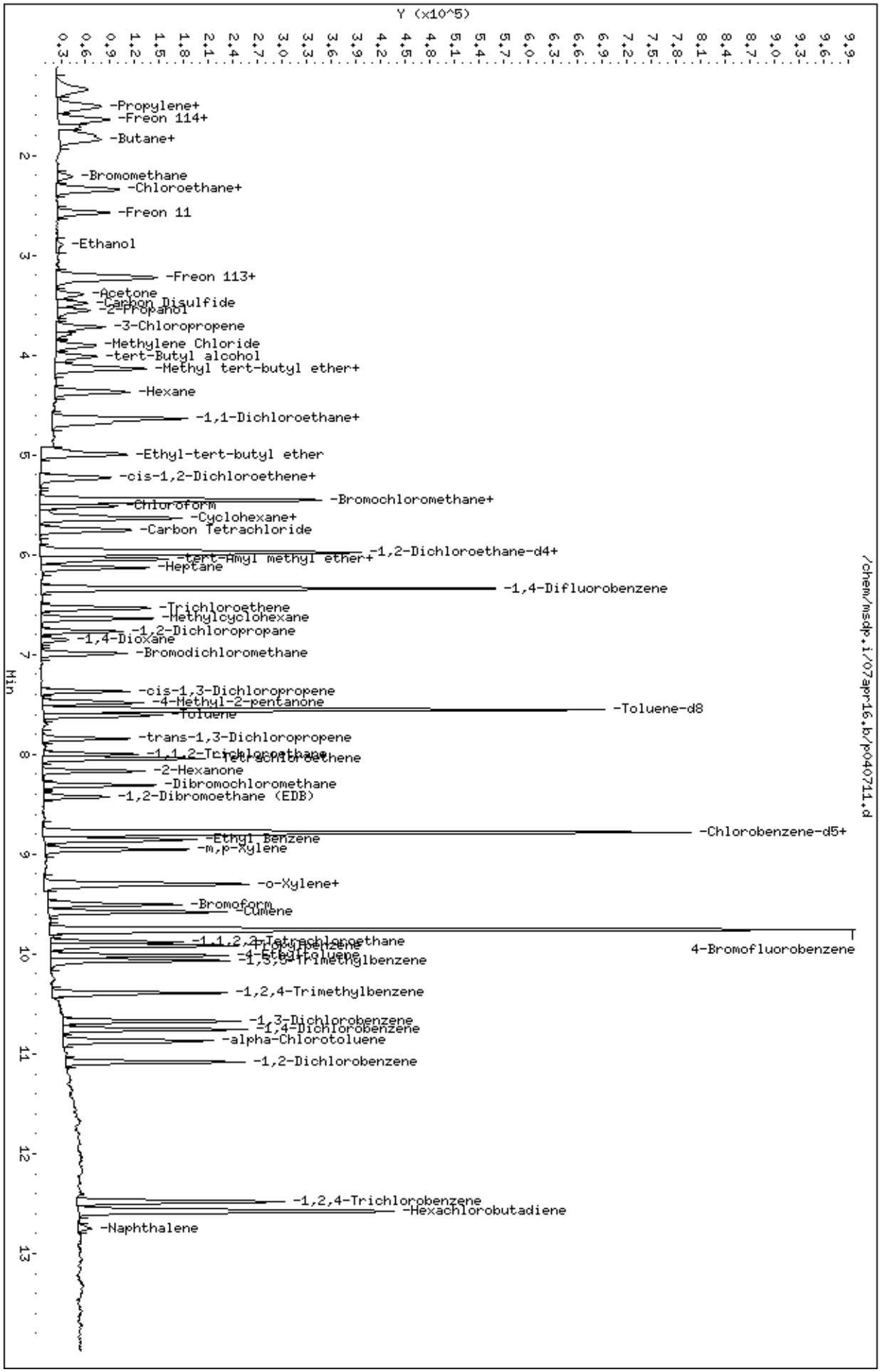
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	120182	1.20
123 1,4-Difluorobenze	479982	287989	671975	474835	-1.07
163 Chlorobenzene-d5	441761	265057	618465	452480	2.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/07apr16.b/p040711.d
Date : 07-APR-2016 16:41
Client ID: Level 4
Sample Info: 200ml #2789-53
Column phase: RTX-624

Instrument: msdp.i
Operator: cb
Column diameter: 0.25



Page 1

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040712.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 07-APR-2016 17:05
Operator : cb Inst ID: msdp.i
Smp Info : 20ml #2789-32
Misc Info : 20ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 07-Apr-2016 19:26 troberts Quant Type: ISTD
Cal Date : 07-APR-2016 17:05 Cal File: p040712.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12mdl.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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.441	5.441 (1.000)	130	118031	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	90466			49.40- 109.40	76.65
5.441	5.441 (1.000)	49	214768			153.31- 213.31	181.96
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.337 (1.000)	114	454030	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	63577			0.00- 43.38	14.00
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	416996	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	215523			21.26- 81.26	51.68
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.978	5.978 (1.099)	65	178834	25.0000	24.668	80.00- 120.00	100.00
5.978	5.978 (1.099)	67	88189			25.58- 85.58	49.31
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.191)	98	467876	25.0000	25.531	80.00- 120.00	100.00
7.547	7.547 (1.191)	70	49861			0.00- 40.37	10.66

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.191)   100    313924                    38.69-  98.69    67.10
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.761   9.761 (1.112)   174    351707 25.0000   25.793  80.00- 120.00   100.00
  9.753   9.753 (1.111)    95    320545                   59.95- 119.95    91.14
  9.761   9.761 (1.112)   176    339167                   67.47- 127.47    96.43
-------------------------------------------------------------------------------
    9 Propylene                                     CAS #: 115-07-1
  1.464   1.464 (0.269)    41     98902 20.0000   16.899  80.00- 120.00   100.00
  1.464   1.464 (0.269)    42     67509                   35.34-  95.34    68.26
  1.464   1.464 (0.269)    39     75548                   42.39- 102.39    76.39
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.492   1.492 (0.274)    85    223245 20.0000   16.438  80.00- 120.00   100.00
  1.492   1.492 (0.274)    87     69945                    2.43-  62.43    31.33
-------------------------------------------------------------------------------
   15 Freon 114                                     CAS #: 76-14-2
  1.618   1.618 (0.297)   135    175908 20.0000   16.468  80.00- 120.00   100.00
  1.618   1.618 (0.297)   137     55997                    1.44-  61.44    31.83
-------------------------------------------------------------------------------
   17 Chloromethane                                 CAS #: 74-87-3
  1.702   1.702 (0.313)    50    139231 20.0000   21.340  80.00- 120.00   100.00
  1.702   1.702 (0.313)    52     44350                    1.49-  61.49    31.85
-------------------------------------------------------------------------------
   23 Butane                                        CAS #: 106-97-8
  1.772   1.772 (0.326)    58     22135 20.0000   16.071  80.00- 120.00   100.00
  1.772   1.772 (0.326)    43    195669                  835.45- 895.45   883.98
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                CAS #: 75-01-4
  1.800   1.800 (0.331)    62     97049 20.0000   15.875  80.00- 120.00   100.00
  1.800   1.800 (0.331)    64     28148                    0.00-  54.54    29.00
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                 CAS #: 106-99-0
  1.828   1.828 (0.336)    54     95724 20.0000   15.269  80.00- 120.00   100.00
  1.828   1.828 (0.336)    39    128948                  103.78- 163.78   134.71
-------------------------------------------------------------------------------
   29 Bromomethane                                  CAS #: 74-83-9
  2.189   2.189 (0.402)    94     69451 20.0000   17.093  80.00- 120.00   100.00
  2.189   2.189 (0.402)    96     68086                   66.47- 126.47    98.03
-------------------------------------------------------------------------------
   30 Chloroethane                                  CAS #: 75-00-3
  2.304   2.304 (0.423)    64     44202 20.0000   17.098  80.00- 120.00   100.00
  2.297   2.297 (0.422)    66     12395                    0.00-  59.53    28.04
  2.304   2.304 (0.423)    49     19169                   11.61-  71.61    43.37
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.325	2.325 (0.427)	43	163950	20.0000	18.514	80.00- 120.00	100.00
2.325	2.325 (0.427)	57	96080			31.35- 91.35	58.60
35 Freon 11					CAS #: 75-69-4		
2.547	2.547 (0.468)	101	244877	20.0000	17.195	80.00- 120.00	100.00
2.555	2.555 (0.469)	103	158628			35.01- 95.01	64.78
42 Ethanol					CAS #: 64-17-5		
2.855	2.855 (0.525)	45	50548	20.0000	18.432	80.00- 120.00	100.00
2.863	2.863 (0.526)	43	9896			0.00- 51.15	19.58
2.855	2.855 (0.525)	46	19121			7.97- 67.97	37.83
49 Freon 113					CAS #: 76-13-1		
3.199	3.199 (0.588)	151	205180	20.0000	19.184	80.00- 120.00	100.00
3.199	3.199 (0.588)	153	129861			33.63- 93.63	63.29
3.199	3.199 (0.588)	101	216572			73.82- 133.82	105.55
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.228	3.228 (0.593)	98	47577	20.0000	15.838	80.00- 120.00	100.00
3.221	3.221 (0.592)	96	78346			130.56- 190.56	164.67
3.221	3.221 (0.592)	61	169484			327.82- 387.82	356.23
52 Acetone					CAS #: 67-64-1		
3.364	3.364 (0.618)	58	53755	20.0000	16.928	80.00- 120.00	100.00
3.364	3.364 (0.618)	43	199891			353.98- 413.98	371.86
56 Carbon Disulfide					CAS #: 75-15-0		
3.457	3.457 (0.635)	76	220466	20.0000	16.338	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.529	3.529 (0.648)	45	223059	20.0000	16.188	80.00- 120.00	100.00
3.529	3.529 (0.648)	43	46060			0.00- 50.28	20.65
3.529	3.529 (0.648)	59	6998			0.00- 33.15	3.14
58 3-Chloropropene					CAS #: 107-05-1		
3.708	3.708 (0.681)	76	32842	20.0000	15.848	80.00- 120.00	100.00
3.701	3.701 (0.680)	41	153773			425.37- 485.37	468.22
66 Methylene Chloride					CAS #: 75-09-2		
3.887	3.887 (0.714)	49	149752	20.0000	16.445	80.00- 120.00	100.00
3.887	3.887 (0.714)	84	66545			14.95- 74.95	44.44
3.887	3.887 (0.714)	51	47175			0.42- 60.42	31.50
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.001	4.001 (0.735)	59	253237	20.0000	18.271	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol (continued)							
3.994	3.994 (0.734)	41	60494			0.00- 53.41	23.89
3.994	3.994 (0.734)	57	29621			0.00- 41.73	11.70
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.109	4.109 (0.755)	73	262594	20.0000	18.709	80.00- 120.00	100.00
4.109	4.109 (0.755)	57	88643			2.37- 62.37	33.76
4.109	4.109 (0.755)	41	95312			4.37- 64.37	36.30
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.130	4.130 (0.759)	98	50044	20.0000	16.635	80.00- 120.00	100.00
4.130	4.130 (0.759)	61	145909			269.90- 329.90	291.56
4.130	4.130 (0.759)	96	78557			127.45- 187.45	156.98
78 Hexane					CAS #: 110-54-3		
4.360	4.360 (0.801)	57	178993	20.0000	17.000	80.00- 120.00	100.00
4.360	4.360 (0.801)	43	124741			40.99- 100.99	69.69
4.360	4.360 (0.801)	86	19416			0.00- 40.81	10.85
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.625	4.625 (0.850)	63	169262	20.0000	15.639	80.00- 120.00	100.00
4.625	4.625 (0.850)	65	48015			0.00- 58.37	28.37
83 Isopropyl ether					CAS #: 108-20-3		
4.625	4.625 (0.850)	45	469155	20.0000	18.240	80.00- 120.00	100.00
4.625	4.625 (0.850)	87	79669			0.00- 47.04	16.98
4.625	4.625 (0.850)	59	46459			0.00- 39.86	9.90
86 Vinyl Acetate					CAS #: 108-05-4		
4.675	4.675 (0.859)	86	21477	20.0000	16.737	80.00- 120.00	100.00
4.675	4.675 (0.859)	43	370347			1833.17-1893.17	1724.39
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.983	4.983 (0.916)	59	392499	20.0000	18.749	80.00- 120.00	100.00
4.983	4.983 (0.916)	87	122027			1.48- 61.48	31.09
4.983	4.983 (0.916)	41	85154			0.00- 51.50	21.70
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.212	5.212 (0.958)	98	50854	20.0000	16.598	80.00- 120.00	100.00
5.212	5.212 (0.958)	96	84321			124.70- 184.70	165.81
5.212	5.212 (0.958)	61	138717			233.87- 293.87	272.78
92 2-Butanone					CAS #: 78-93-3		
5.234	5.234 (0.962)	72	37613	20.0000	15.796	80.00- 120.00	100.00
5.234	5.234 (0.962)	43	240231			611.89- 671.89	638.69
5.234	5.234 (0.962)	57	19552			17.72- 77.72	51.98

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

   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.434   5.434 (0.999)    42    129720 20.0000   15.762  80.00- 120.00   100.00
  5.434   5.434 (0.999)    71     32124                    0.00-  53.97    24.76
  5.434   5.434 (0.999)    72     33720                    0.00-  55.92    25.99
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.506   5.506 (1.012)    83    167267 20.0000   16.294  80.00- 120.00   100.00
  5.506   5.506 (1.012)    85    111990                   35.28-  95.28    66.95
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.620   5.620 (1.033)    84    123876 20.0000   18.768  80.00- 120.00   100.00
  5.613   5.613 (1.032)    56    216763                  138.21- 198.21   174.98
  5.613   5.613 (1.032)    41    134301                   72.24- 132.24   108.42
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                         CAS #: 71-55-6
  5.635   5.635 (1.036)    97    218815 20.0000   18.382  80.00- 120.00   100.00
  5.635   5.635 (1.036)    99    142446                   33.83-  93.83    65.10
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                          CAS #: 56-23-5
  5.749   5.749 (1.057)   119    245173 20.0000   19.584  80.00- 120.00   100.00
  5.749   5.749 (1.057)   117    256466                   74.93- 134.93   104.61
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.957   5.957 (1.095)    57    647470 20.0000   18.211  80.00- 120.00   100.00
  5.957   5.957 (1.095)    56    214988                    2.51-  62.51    33.20
  5.957   5.957 (1.095)    41    189018                    0.00-  58.92    29.19
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.964   5.964 (0.941)    78    230959 20.0000   16.504  80.00- 120.00   100.00
  5.964   5.964 (0.941)    77     54174                    0.00-  54.04    23.46
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                        CAS #: 994-05-8
  6.036   6.036 (0.953)    87     67668 20.0000   18.732  80.00- 120.00   100.00
  6.036   6.036 (0.953)    73    288213                  379.76- 439.76   425.92
  6.036   6.036 (0.953)    55     99862                  114.37- 174.37   147.58
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                            CAS #: 107-06-2
  6.050   6.050 (0.955)    62    141584 20.0000   16.936  80.00- 120.00   100.00
  6.050   6.050 (0.955)    64     43103                    0.59-  60.59    30.44
-------------------------------------------------------------------------------
  121 Heptane                                       CAS #: 142-82-5
  6.122   6.122 (0.966)    71     93887 20.0000   17.955  80.00- 120.00   100.00
  6.122   6.122 (0.966)    43    248674                  231.64- 291.64   264.87
  6.122   6.122 (0.966)    57    120966                  103.28- 163.28   128.84
-------------------------------------------------------------------------------
  125 Trichloroethene                               CAS #: 79-01-6
  6.530   6.530 (1.031)    95    110820 20.0000   16.127  80.00- 120.00   100.00
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.530	6.530 (1.031)	130	124814			82.18- 142.18	112.63
6.530	6.530 (1.031)	97	73820			33.62- 93.62	66.61
127 Methylcyclohexane					CAS #: 108-87-2		
6.637	6.637 (1.047)	83	179073	20.0000	19.483	80.00- 120.00	100.00
6.637	6.637 (1.047)	98	80884			16.98- 76.98	45.17
6.637	6.637 (1.047)	55	203601			83.20- 143.20	113.70
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.766	6.766 (1.068)	63	120059	20.0000	17.900	80.00- 120.00	100.00
6.766	6.766 (1.068)	62	86376			41.70- 101.70	71.94
6.766	6.766 (1.068)	41	85683			41.13- 101.13	71.37
136 1,4-Dioxane					CAS #: 123-91-1		
6.845	6.845 (1.080)	88	62709	20.0000	17.898	80.00- 120.00	100.00
6.845	6.845 (1.080)	58	58747			62.32- 122.32	93.68
6.845	6.845 (1.080)	57	20519			3.20- 63.20	32.72
138 Bromodichloromethane					CAS #: 75-27-4		
6.988	6.988 (1.103)	83	189588	20.0000	16.897	80.00- 120.00	100.00
6.988	6.988 (1.103)	85	119808			35.75- 95.75	63.19
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.163)	75	158160	20.0000	16.968	80.00- 120.00	100.00
7.368	7.368 (1.163)	77	50721			0.75- 60.75	32.07
7.361	7.361 (1.162)	39	119045			45.96- 105.96	75.27
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.476	7.476 (1.180)	58	117072	20.0000	18.672	80.00- 120.00	100.00
7.476	7.476 (1.180)	43	342641			264.26- 324.26	292.68
7.476	7.476 (1.180)	85	37347			3.08- 63.08	31.90
147 Toluene					CAS #: 108-88-3		
7.604	7.604 (1.200)	91	351878	20.0000	18.270	80.00- 120.00	100.00
7.604	7.604 (1.200)	92	199480			28.28- 88.28	56.69
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	146500	20.0000	17.091	80.00- 120.00	100.00
7.841	7.841 (0.893)	77	48072			0.54- 60.54	32.81
7.841	7.841 (0.893)	39	107534			41.71- 101.71	73.40
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.998	7.998 (0.911)	97	121352	20.0000	18.874	80.00- 120.00	100.00
7.998	7.998 (0.911)	99	71538			33.23- 93.23	58.95
7.998	7.998 (0.911)	83	101048			57.40- 117.40	83.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.041	8.041 (0.916)	166	214338	20.0000	18.745	80.00- 120.00	100.00
8.041	8.041 (0.916)	129	136068			34.91- 94.91	63.48
8.041	8.041 (0.916)	131	137347			34.35- 94.35	64.08
158 2-Hexanone					CAS #: 591-78-6		
8.163	8.163 (0.930)	58	150486	20.0000	17.708	80.00- 120.00	100.00
8.163	8.163 (0.930)	43	321677			175.82- 235.82	213.76
8.163	8.163 (0.930)	100	24612			0.00- 45.85	16.36
160 Dibromochloromethane					CAS #: 124-48-1		
8.306	8.306 (0.946)	129	247214	20.0000	18.164	80.00- 120.00	100.00
8.306	8.306 (0.946)	127	191750			48.31- 108.31	77.56
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.421	8.421 (0.959)	107	188626	20.0000	18.071	80.00- 120.00	100.00
8.421	8.421 (0.959)	109	181118			65.63- 125.63	96.02
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.801 (1.002)	112	305451	20.0000	18.453	80.00- 120.00	100.00
8.801	8.801 (1.002)	114	97909			1.89- 61.89	32.05
8.801	8.801 (1.002)	77	168878			22.59- 82.59	55.29
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	166671	20.0000	19.796	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	509783			277.26- 337.26	305.86
169 m,p-Xylene					CAS #: 108-38-3		
8.951	8.951 (1.020)	106	204232	20.0000	19.668	80.00- 120.00	100.00
8.951	8.951 (1.020)	91	399183			167.63- 227.63	195.46
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.059)	106	195711	20.0000	20.310	80.00- 120.00	100.00
9.288	9.288 (1.058)	91	398623			178.91- 238.91	203.68
172 Styrene					CAS #: 100-42-5		
9.309	9.309 (1.060)	104	314705	20.0000	20.261	80.00- 120.00	100.00
9.309	9.309 (1.060)	78	143000			15.94- 75.94	45.44
174 Bromoform					CAS #: 75-25-2		
9.503	9.503 (1.082)	173	314690	20.0000	19.009	80.00- 120.00	100.00
9.503	9.503 (1.082)	171	161970			21.13- 81.13	51.47
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.091)	105	635422	20.0000	20.716	80.00- 120.00	100.00
9.582	9.582 (1.091)	120	168200			0.00- 57.59	26.47

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

  175 Cumene (continued)
  9.574   9.574 (1.091)    51     87140                     0.00-  43.20    13.71
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.882   9.882 (1.126)    83    319376 20.0000   20.577  80.00- 120.00   100.00
  9.882   9.882 (1.126)    85    206821                   35.30-  95.30    64.76
-------------------------------------------------------------------------------
  182 Propylbenzene                                CAS #: 103-65-1
  9.918   9.918 (1.130)    91    761749 20.0000   20.349  80.00- 120.00   100.00
  9.918   9.918 (1.130)   120    186660                    0.00-  54.24    24.50
  9.918   9.918 (1.130)   105     28315                    0.00-  33.65     3.72
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                               CAS #: 622-96-8
 10.011  10.011 (1.140)   120    204928 20.0000   20.586  80.00- 120.00   100.00
 10.011  10.011 (1.140)   105    656999                  283.78- 343.78   320.60
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
 10.069  10.069 (1.147)   120    274337 20.0000   20.533  80.00- 120.00   100.00
 10.069  10.069 (1.147)   105    564037                  172.79- 232.79   205.60
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
 10.391  10.391 (1.184)   120    247351 20.0000   20.454  80.00- 120.00   100.00
 10.391  10.391 (1.184)   105    525510                  186.10- 246.10   212.46
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                          CAS #: 541-73-1
 10.677  10.677 (1.216)   146    417955 20.0000   20.010  80.00- 120.00   100.00
 10.677  10.677 (1.216)   148    268722                   34.63-  94.63    64.29
 10.670  10.670 (1.215)   111    156688                    7.17-  67.17    37.49
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                          CAS #: 106-46-7
 10.756  10.756 (1.225)   146    427257 20.0000   20.024  80.00- 120.00   100.00
 10.756  10.756 (1.225)   148    269139                   33.55-  93.55    62.99
 10.756  10.756 (1.225)   111    146162                    4.50-  64.50    34.21
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.871  10.871 (1.238)    91    543624 20.0000   20.028  80.00- 120.00   100.00
 10.871  10.871 (1.238)   126    119921                    0.00-  52.80    22.06
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                          CAS #: 95-50-1
 11.079  11.079 (1.262)   146    405646 20.0000   20.252  80.00- 120.00   100.00
 11.079  11.079 (1.262)   148    263207                   33.56-  93.56    64.89
 11.079  11.079 (1.262)   111    154921                    7.11-  67.11    38.19
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 12.483  12.483 (1.422)   180    435460 20.0000   20.243  80.00- 120.00   100.00
 12.483  12.483 (1.422)   182    411329                   66.05- 126.05    94.46
-------------------------------------------------------------------------------
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.576	12.576	(1.432)	225	375886	20.0000	19.454	80.00- 120.00	100.00
12.576	12.576	(1.432)	223	236903			31.76- 91.76	63.03
228 Naphthalene						CAS #: 91-20-3		
12.748	12.748	(1.452)	128	69261	2.00000	2.076	80.00- 120.00	100.00
12.740	12.740	(1.451)	127	9395			0.00- 43.45	13.56

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p040712.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 20ppbv(200ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

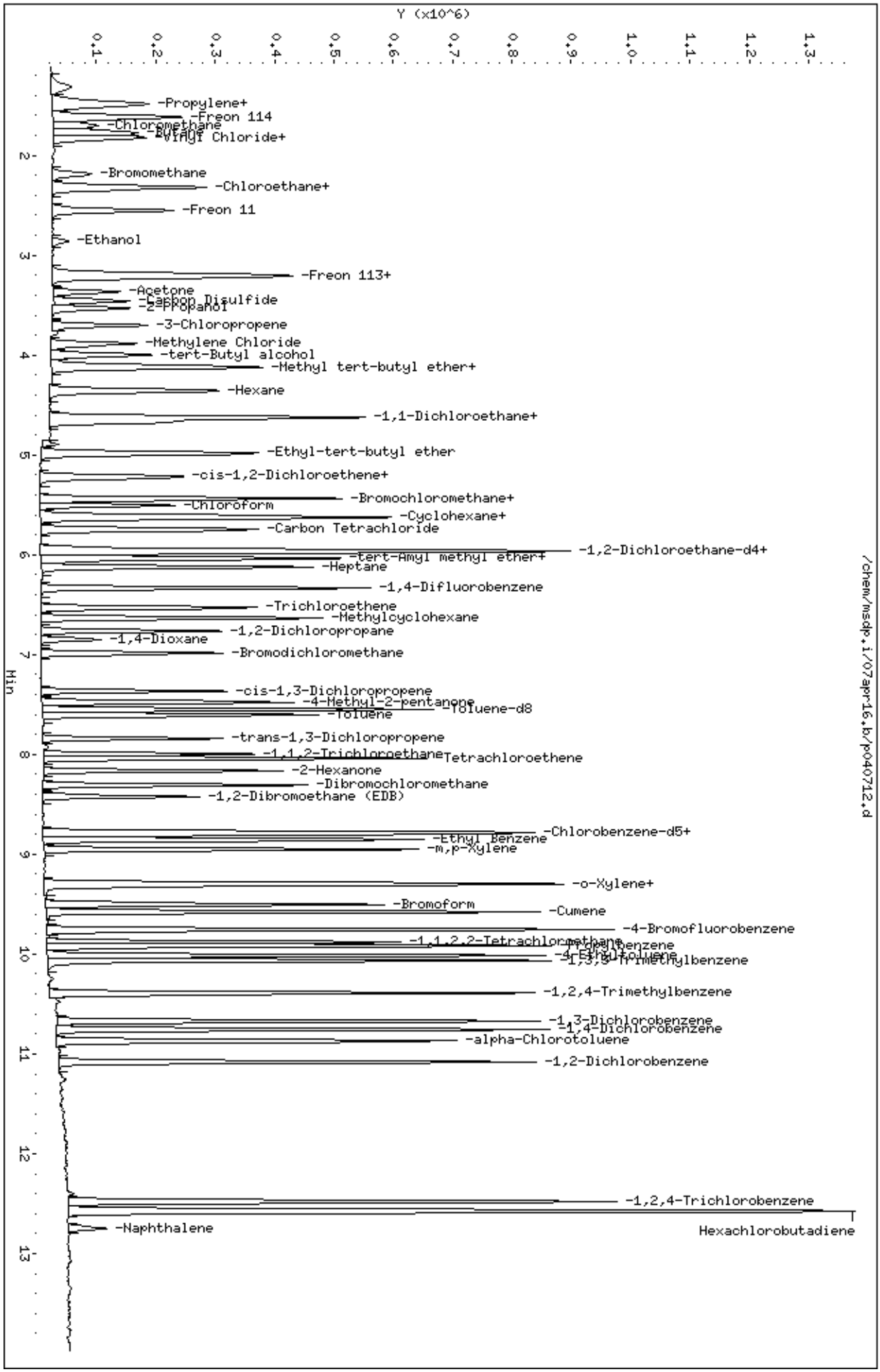
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	118031	-0.61
123 1,4-Difluorobenze	479982	287989	671975	454030	-5.41
163 Chlorobenzene-d5	441761	265057	618465	416996	-5.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.44	-0.14
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	-0.12
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/07apr16.b/p040712.d
Date : 07-APR-2016 17:05
Client ID: Level 5
Sample Info: 20ml #2789-32
Column phase: RTX-624

Instrument: msdp.i
Operator: cb
Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/12jul16.b/p071207.d
Lab Smp Id: ICAL level 6
Inj Date : 12-JUL-2016 13:59
Operator : gd Inst ID: msdp.i
Smp Info : 50ml 2789-132
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/12jul16.b/p16q0407e.m
Meth Date : 12-Jul-2016 17:00 gdelacru Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AnitrileICAL.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
63 Acetonitrile					CAS #: 75-05-8		
3.794	3.794 (0.697)	39	53262	50.0000	45.687	0.00- 0.00	100.00(A)
3.794	3.794 (0.697)	41	272456			0.00- 0.00	511.54
3.794	3.794 (0.697)	40	132953			0.00- 0.00	249.62
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	97639	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	75750			49.40- 109.40	77.58
5.434	5.434 (1.000)	49	217403			153.31- 213.31	222.66
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	378381	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	55111			0.00- 43.38	14.56
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.772	8.772 (1.000)	117	345017	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	189475			21.26- 81.26	54.92

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: msdp.i
Lab File ID: p071207.d
Lab Smp Id: ICAL level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/12jul16.b/p16q0407e.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 12-JUL-2016
Calibration Time: 13:59

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	97639	58583	136695	97639	0.00
123 1,4-Difluorobenze	378381	227029	529733	378381	0.00
163 Chlorobenzene-d5	345017	207010	483024	345017	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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/msdp.i/12jul16.b/p071207.d

Date : 12-JUL-2016 13:59

Client ID:

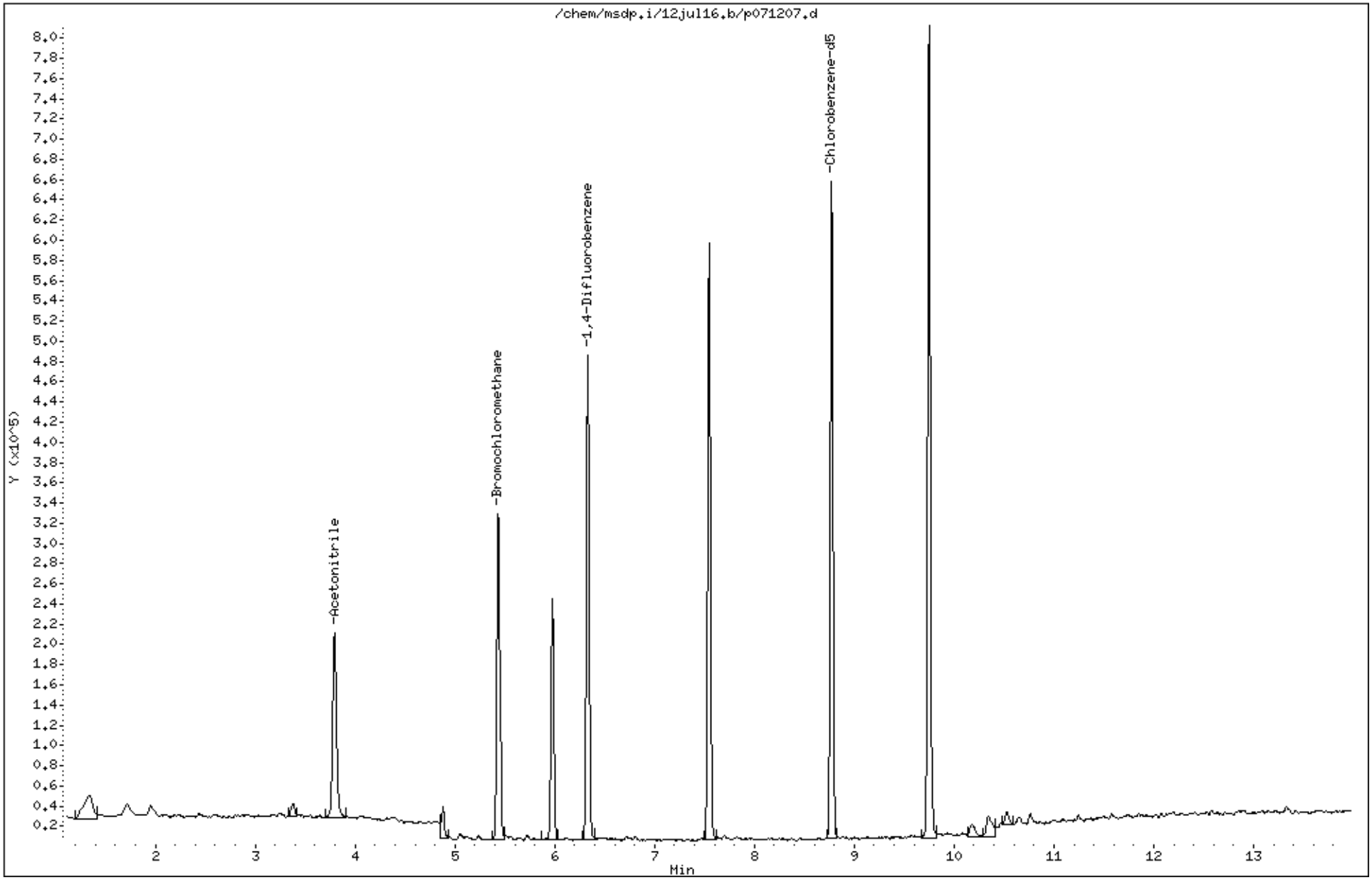
Sample Info: 50ml 2789-132

Column phase: RTX-624

Instrument: msdp.i

Operator: gd

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17jun16.b/p061709.d
Lab Smp Id: ICAL Level #6
Inj Date : 17-JUN-2016 12:24
Operator : jcw Inst ID: msdp.i
Smp Info : 50ml 2789-194
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17jun16.b/p16q0407d.m
Meth Date : 21-Jun-2016 11:12 jwu Quant Type: ISTD
Cal Date : 17-JUN-2016 12:24 Cal File: p061709.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 123TCB.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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.449 (1.000)	130	101764	25.0000		80.00- 120.00	100.00
5.449	5.449 (1.000)	128	82473			49.40- 109.40	81.04
5.449	5.449 (1.000)	49	220393			153.31- 213.31	216.57
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.337 (1.000)	114	397409	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	55175			0.00- 43.38	13.88
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	357957	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	186475			21.26- 81.26	52.09
229 1,2,3-Trichlorobenzene						CAS #: 87-61-6	
12.991	12.991 (1.480)	180	987594	50.0000	61.066	0.00- 0.00	100.00
12.991	12.991 (1.480)	182	943474			0.00- 0.00	95.53
12.991	12.991 (1.480)	145	268915			0.00- 0.00	27.23

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p061709.d
Lab Smp Id: ICAL Level #6
Analysis Type: VOA
Quant Type: ISTD
Operator: jcw
Method File: /chem/msdp.i/17jun16.b/p16q0407d.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 17-JUN-2016
Calibration Time: 12:24

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	101764	61058	142470	101764	0.00
123 1,4-Difluorobenze	397409	238445	556373	397409	0.00
163 Chlorobenzene-d5	357957	214774	501140	357957	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.45	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/17jun16.b/p061709.d

Date : 17-JUN-2016 12:24

Client ID:

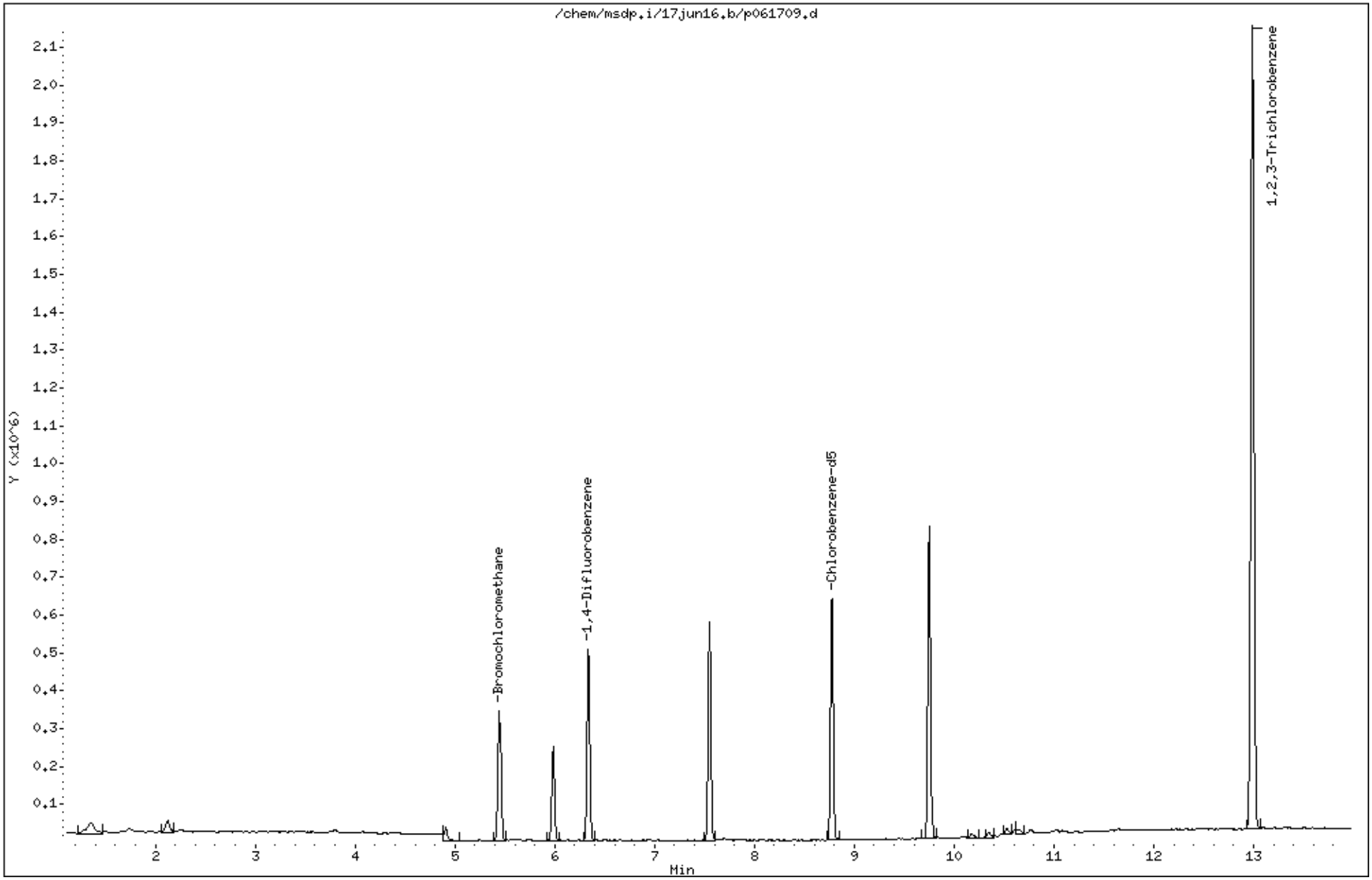
Instrument: msdp.i

Sample Info: 50ml 2789-194

Operator: jcw

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/16jun16.b/p061619.d
Lab Smp Id: ICAL Level #6
Inj Date : 16-JUN-2016 21:28
Operator : gh Inst ID: msdp.i
Smp Info : 50ml 2789-185
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/16jun16.b/p16q0407c.m
Meth Date : 21-Jun-2016 16:21 sblack Quant Type: ISTD
Cal Date : 16-JUN-2016 21:28 Cal File: p061619.d
Als bottle: 11 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2part1.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
32 Vinyl Bromide					CAS #: 593-60-2		
2.519	2.519 (0.463)	106	207922	50.0000	46.898	0.00- 0.00	100.00
2.519	2.519 (0.463)	108	194398			0.00- 0.00	93.50
61 Methyl Acetate					CAS #: 79-20-9		
3.744	3.744 (0.688)	43	733360	50.0000	37.905	0.00- 0.00	100.00
3.744	3.744 (0.688)	74	86228			0.00- 0.00	11.76
85 Chloroprene					CAS #: 126-99-8		
4.682	4.682 (0.860)	53	522415	50.0000	48.332	0.00- 0.00	100.00
4.682	4.682 (0.860)	88	175401			0.00- 0.00	33.58
4.682	4.682 (0.860)	50	153051			0.00- 0.00	29.30
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	103805	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	77553			49.40- 109.40	74.71
5.441	5.441 (1.000)	49	228014			153.31- 213.31	219.66
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	404752	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 123 1,4-Difluorobenzene (continued)							
6.330	6.330 (1.000)	88	56977			0.00- 43.38	14.08
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.772	8.772 (1.000)	117	364200	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	195224			21.26- 81.26	53.60
184 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.933	9.933 (1.132)	75	275287	50.0000		0.00- 0.00	100.00(a)
9.933	9.933 (1.132)	89	150364			0.00- 0.00	54.62
9.933	9.933 (1.132)	53	331323			0.00- 0.00	120.36
217 Hexachloroethane					CAS #: 67-72-1		
11.258	11.258 (1.283)	201	405017	50.0000	52.739	0.00- 0.00	100.00
11.258	11.258 (1.283)	117	396067			0.00- 0.00	97.79
224 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.881	11.881 (1.354)	180	623163	50.0000	42.608	0.00- 0.00	100.00
11.881	11.881 (1.354)	182	588021			0.00- 0.00	94.36

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: msdp.i
Lab File ID: p061619.d
Lab Smp Id: ICAL Level #6
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/16jun16.b/p16q0407c.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 16-JUN-2016
Calibration Time: 21:28

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	103805	62283	145327	103805	0.00
123 1,4-Difluorobenze	404752	242851	566653	404752	0.00
163 Chlorobenzene-d5	364200	218520	509880	364200	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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/msdp.i/16jun16.b/p061619.d

Date : 16-JUN-2016 21:28

Client ID:

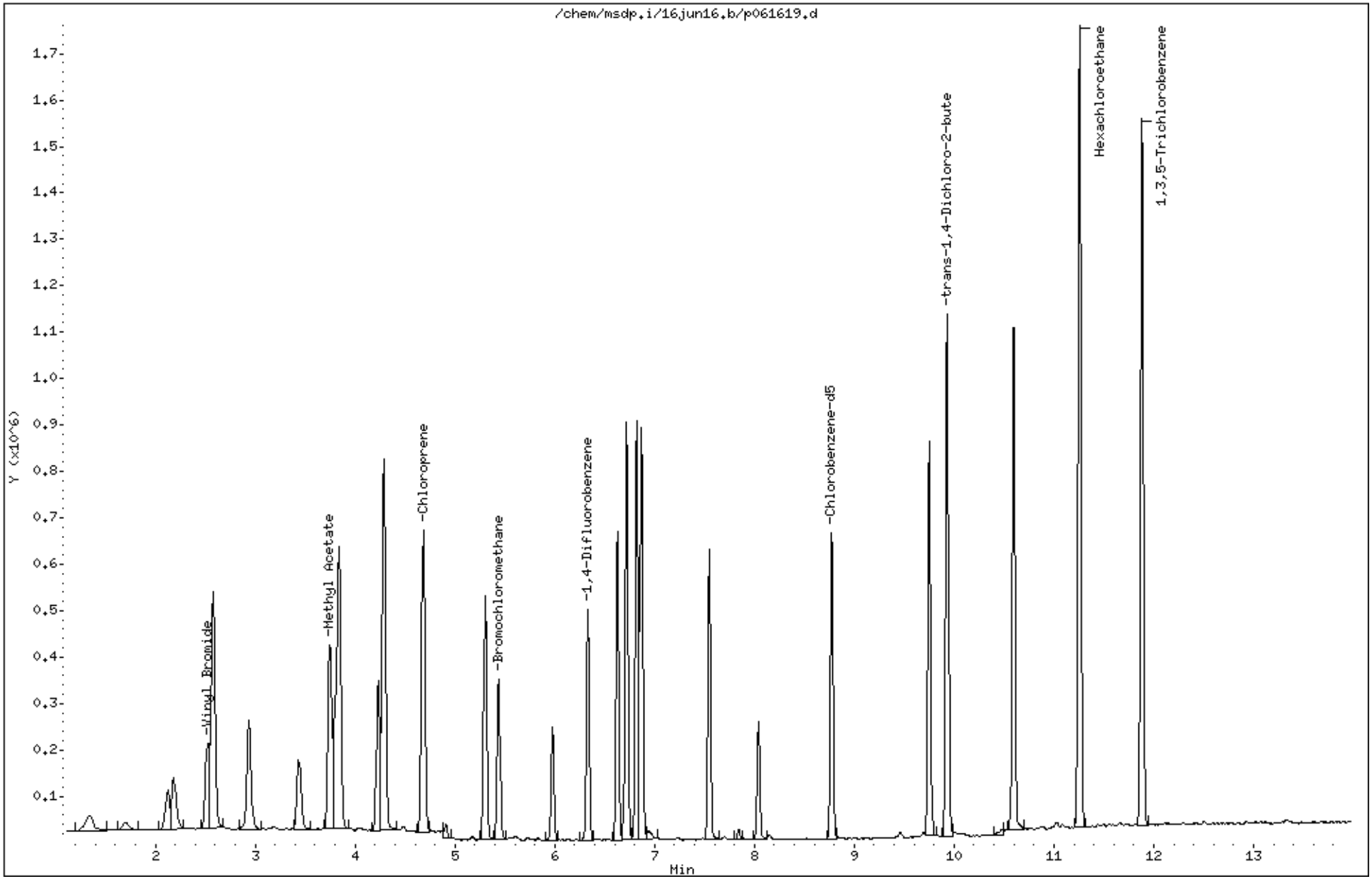
Sample Info: 50ml 2789-185

Column phase: RTX-624

Instrument: msdp.i

Operator: gh

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/12may16.b/p051206.d
Lab Smp Id: ICAL Level #6 Client Smp ID: ICAL Level #6
Inj Date : 12-MAY-2016 12:33
Operator : jg Inst ID: msdp.i
Smp Info : 50ml #2789-115
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/12may16.b/p16q0407b.m
Meth Date : 21-Jun-2016 13:26 jwu Quant Type: ISTD
Cal Date : 12-MAY-2016 12:33 Cal File: p051206.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Freoncrv.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
7 Freon 134a					CAS #: 811-97-2		
1.451	1.451 (0.267)	83	173126	50.0000	49.667	0.00- 0.00	100.00
1.423	1.423 (0.261)	69	311624			0.00- 0.00	180.00
1.437	1.437 (0.264)	63	25475			0.00- 0.00	14.71
10 1,1-Difluoroethane					CAS #: 75-37-6		
1.493	1.493 (0.274)	65	101527	50.0000	52.984	0.00- 0.00	100.00
1.535	1.535 (0.282)	51	747970			0.00- 0.00	736.72
1.493	1.493 (0.274)	47	67693			0.00- 0.00	66.67
13 Chlorodifluoromethane					CAS #: 75-45-6		
1.549	1.549 (0.285)	67	47867	50.0000	46.914	0.00- 0.00	100.00
1.535	1.535 (0.282)	51	740425			0.00- 0.00	1546.84
1.549	1.549 (0.285)	85	4362			0.00- 0.00	9.11
16 Freon 142b					CAS #: 75-68-3		
1.674	1.674 (0.308)	65	452487	50.0000	47.234	0.00- 0.00	100.00
1.660	1.660 (0.305)	45	153596			0.00- 0.00	33.94
37 Dichlorofluoromethane					CAS #: 75-43-4		
2.576	2.576 (0.473)	67	469055	50.0000	47.735	0.00- 0.00	100.00

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

   37 Dichlorofluoromethane (continued)
  2.576   2.576 (0.473)    69    145779                     0.00-   0.00    31.08
  2.519   2.519 (0.463)    35       137                     0.00-   0.00     0.03
-------------------------------------------------------------------------------
   48 Freon 123                                     CAS #: 306-83-2
  3.135   3.135 (0.576)    83    498574 50.0000   49.002   0.00-   0.00   100.00
  3.135   3.135 (0.576)   133    117777                     0.00-   0.00    23.62
  3.135   3.135 (0.576)    85    322769                     0.00-   0.00    64.74
-------------------------------------------------------------------------------
*  98 Bromochloromethane                           CAS #: 74-97-5
  5.441   5.441 (1.000)   130    113205 25.0000           80.00- 120.00   100.00
  5.441   5.441 (1.000)   128     87999                   49.40- 109.40    77.73
  5.441   5.441 (1.000)    49    215990                  153.31- 213.31   190.80
-------------------------------------------------------------------------------
* 123 1,4-Difluorobenzene                          CAS #: 540-36-3
  6.337   6.337 (1.000)   114    457382 25.0000           80.00- 120.00   100.00
  6.337   6.337 (1.000)    88     63128                    0.00-  43.38    13.80
-------------------------------------------------------------------------------
* 163 Chlorobenzene-d5                             CAS #: 3114-55-4
  8.779   8.779 (1.000)   117    423631 25.0000           80.00- 120.00   100.00
  8.779   8.779 (1.000)    82    216833                   21.26-  81.26    51.18
-------------------------------------------------------------------------------
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Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051206.d
Lab Smp Id: ICAL Level #6
Analysis Type: VOA
Quant Type: ISTD
Operator: jg
Method File: /chem/msdp.i/12may16.b/p16q0407b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 12-MAY-2016
Calibration Time: 12:33
Client Smp ID: ICAL Level #6
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	113205	67923	158487	113205	0.00
123 1,4-Difluorobenze	457382	274429	640335	457382	0.00
163 Chlorobenzene-d5	423631	254179	593083	423631	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/12may16.b/p051206.d

Page 1

Date : 12-MAY-2016 12:33

Client ID: ICAL Level #6

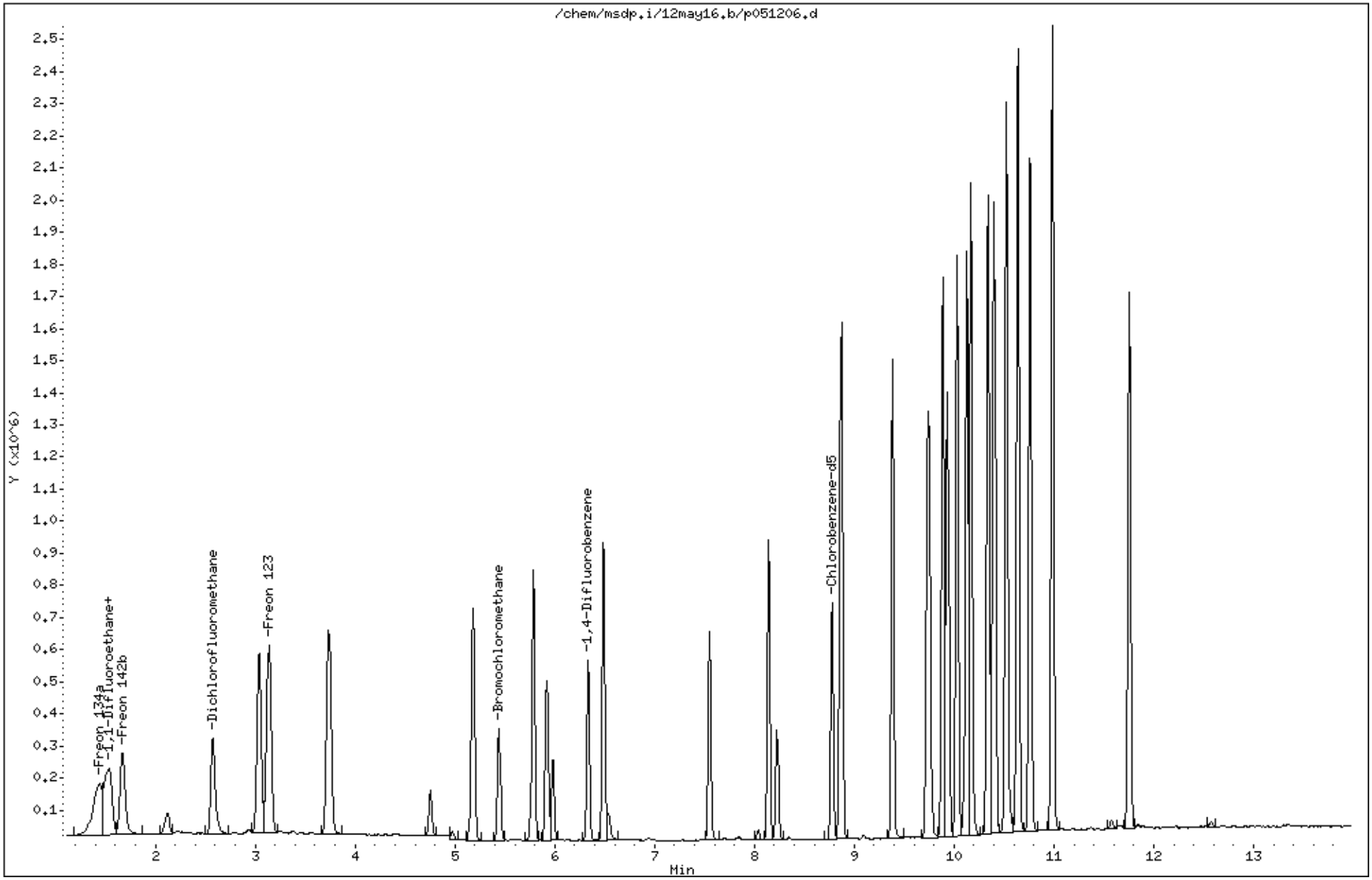
Instrument: msdp.i

Sample Info: 50ml #2789-115

Operator: jg

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/04may16.b/p050406.d
Lab Smp Id: ICAL Level #6 Client Smp ID: ICAL Level #6
Inj Date : 04-MAY-2016 11:52
Operator : cb Inst ID: msdp.i
Smp Info : 50ml #2789-104
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/04may16.b/p16q0407b.m
Meth Date : 21-Jun-2016 13:24 jwu Quant Type: ISTD
Cal Date : 04-MAY-2016 11:52 Cal File: p050406.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ComboICAL.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
36 1-Pentene					CAS #: 109-67-1		
2.583	2.583 (0.475)	55	349064	50.0000	45.598	0.00- 0.00	100.00
2.583	2.583 (0.475)	42	463429			0.00- 0.00	132.76
34 Pentane					CAS #: 109-66-0		
2.641	2.641 (0.485)	43	728139	50.0000	46.774	0.00- 0.00	100.00
2.641	2.641 (0.485)	57	97059			0.00- 0.00	13.33
2.641	2.641 (0.485)	72	47007			0.00- 0.00	6.46
44 Ethyl Ether					CAS #: 60-29-7		
2.942	2.942 (0.541)	74	125852	50.0000	49.054	0.00- 0.00	100.00(T)
2.942	2.942 (0.541)	59	238926			0.00- 0.00	189.85
0.000	1.000 (0.000)	31	0			0.00- 0.00	0.00
53 Iodomethane					CAS #: 74-88-4		
3.443	3.443 (0.633)	142	309432	50.0000	35.421	0.00- 0.00	100.00
3.443	3.443 (0.633)	127	128184			0.00- 0.00	41.43
59 Cyclopentene					CAS #: 142-29-0		
3.729	3.729 (0.685)	67	461985	50.0000	47.092	0.00- 0.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
59 Cyclopentene (continued)							
3.729	3.729 (0.685)	68	169456			0.00- 0.00	36.68
3.729	3.729 (0.685)	53	145132			0.00- 0.00	31.41
64 Cyclopentane					CAS #: 287-92-3		
3.844	3.844 (0.706)	70	143146	50.0000	48.234	0.00- 0.00	100.00(H)
3.844	3.844 (0.706)	55	280388			0.00- 0.00	195.88
76 1-Hexene					CAS #: 592-41-6		
4.295	4.295 (0.789)	55	285122	50.0000	45.458	0.00- 0.00	100.00
4.295	4.295 (0.789)	41	458277			0.00- 0.00	160.73
4.295	4.295 (0.789)	84	74174			0.00- 0.00	26.01
84 1-Propanol					CAS #: 71-23-8		
4.754	4.754 (0.874)	59	78814	50.0000	44.242	0.00- 0.00	100.00
4.754	4.754 (0.874)	42	75217			0.00- 0.00	95.44
4.754	4.754 (0.874)	41	51669			0.00- 0.00	65.56
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.184	5.184 (0.953)	77	534952	50.0000	47.162	0.00- 0.00	100.00
5.184	5.184 (0.953)	79	175613			0.00- 0.00	32.83
5.184	5.184 (0.953)	97	109931			0.00- 0.00	20.55
94 Ethyl Acetate					CAS #: 141-78-6		
5.262	5.262 (0.967)	70	55198	50.0000	46.242	0.00- 0.00	100.00
5.262	5.262 (0.967)	61	97213			0.00- 0.00	176.12
5.262	5.262 (0.967)	45	133994			0.00- 0.00	242.75
93 Methyl Acrylate					CAS #: 96-33-3		
5.305	5.305 (0.975)	55	835430	50.0000	46.317	0.00- 0.00	100.00
5.305	5.305 (0.975)	85	92621			0.00- 0.00	11.09
5.305	5.305 (0.975)	58	64651			0.00- 0.00	7.74
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	131052	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	100623			49.40- 109.40	76.78
5.441	5.441 (1.000)	49	236133			153.31- 213.31	180.18
107 1,1-Dichloropropene					CAS #: 563-58-6		
5.785	5.785 (0.913)	110	159855	50.0000	48.006	0.00- 0.00	100.00
5.785	5.785 (0.913)	75	420253			0.00- 0.00	262.90
115 Isobutanol					CAS #: 78-83-1		
5.921	5.921 (0.934)	39	108458	50.0000	42.151	0.00- 0.00	100.00
5.921	5.921 (0.934)	43	395392			0.00- 0.00	364.56
5.921	5.921 (0.934)	41	290038			0.00- 0.00	267.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.337 (1.000)	114	516788	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	71583			0.00- 43.38	13.85
124 n-Butanol						CAS #: 71-36-3	
6.494	6.494 (1.025)	56	619507	50.0000	47.617	0.00- 0.00	100.00
6.487	6.487 (1.024)	41	461980			0.00- 0.00	74.57
6.487	6.487 (1.024)	43	361857			0.00- 0.00	58.41
128 Ethyl acrylate						CAS #: 140-88-5	
6.630	6.630 (0.755)	99	45733	50.0000	47.950	0.00- 0.00	100.00
6.630	6.630 (0.755)	45	89246			0.00- 0.00	195.15
6.630	6.630 (0.755)	55	932152			0.00- 0.00	2038.25
131 2-Pentanone						CAS #: 107-87-9	
6.724	6.724 (0.766)	43	1203923	50.0000	47.396	0.00- 0.00	100.00
6.724	6.724 (0.766)	58	84605			0.00- 0.00	7.03
6.724	6.724 (0.766)	86	145805			0.00- 0.00	12.11
134 Methyl Methacrylate						CAS #: 80-62-6	
6.824	6.824 (0.777)	41	618859	50.0000	48.748	0.00- 0.00	100.00
6.824	6.824 (0.777)	69	323038			0.00- 0.00	52.20
6.824	6.824 (0.777)	100	123934			0.00- 0.00	20.03
137 Dibromomethane						CAS #: 74-95-3	
6.874	6.874 (0.783)	174	505181	50.0000	47.291	0.00- 0.00	100.00
6.867	6.867 (0.782)	93	385705			0.00- 0.00	76.35
6.867	6.867 (0.782)	95	308315			0.00- 0.00	61.03
148 Octane						CAS #: 111-65-9	
7.619	7.619 (1.202)	57	366762	50.0000	50.046	0.00- 0.00	100.00
7.619	7.619 (1.202)	85	303688			0.00- 0.00	82.80
7.619	7.619 (1.202)	43	948819			0.00- 0.00	258.70
157 1,3-Dichloropropane						CAS #: 142-28-9	
8.142	8.142 (1.285)	76	526047	50.0000	47.959	0.00- 0.00	100.00
8.142	8.142 (1.285)	41	489393			0.00- 0.00	93.03
8.142	8.142 (1.285)	78	169467			0.00- 0.00	32.22
159 Butyl Acetate						CAS #: 123-86-4	
8.228	8.228 (1.298)	56	126999	50.0000	47.903	0.00- 0.00	100.00
8.228	8.228 (1.298)	73	39620			0.00- 0.00	31.20
8.228	8.228 (1.298)	43	320786			0.00- 0.00	252.59
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	475026	25.0000		80.00- 120.00	100.00

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

* 163 Chlorobenzene-d5 (continued)
  8.779   8.779 (1.000)    82    248147                   21.26-  81.26    52.24
-------------------------------------------------------------------------------
  168 1,1,1,2-Tetrachloroethane                    CAS #: 630-20-6
  8.873   8.873 (1.011)   131    596391 50.0000   50.867   0.00-   0.00   100.00
  8.873   8.873 (1.011)   117    385546                    0.00-   0.00    64.65
  8.873   8.873 (1.011)    95    205190                    0.00-   0.00    34.41
-------------------------------------------------------------------------------
  170 Nonane                                       CAS #: 111-84-2
  8.880   8.880 (1.011)    43    964882 50.0000   50.340   0.00-   0.00   100.00
  8.880   8.880 (1.011)    57    789175                    0.00-   0.00    81.79
  8.880   8.880 (1.011)    85    235506                    0.00-   0.00    24.41
-------------------------------------------------------------------------------
  173 2-Heptanone                                  CAS #: 110-43-0
  9.381   9.381 (1.724)    58    829155 50.0000   48.841   0.00-   0.00   100.00
  9.381   9.381 (1.724)    43   1448962                    0.00-   0.00   174.75
-------------------------------------------------------------------------------
  176 Cyclohexanone                                CAS #: 108-94-1
  9.732   9.732 (1.109)    55    540236 50.0000   46.941   0.00-   0.00   100.00
  9.732   9.732 (1.109)    98    170744                    0.00-   0.00    31.61
  9.732   9.732 (1.109)    42    375652                    0.00-   0.00    69.53
-------------------------------------------------------------------------------
  179 alpha-Pinene                                 CAS #: 80-56-8
  9.539   9.539 (1.086)    93   1089895 50.0000   46.344   0.00-   0.00   100.00
  9.539   9.539 (1.086)    77    329337                    0.00-   0.00    30.22
-------------------------------------------------------------------------------
  180 Bromobenzene                                 CAS #: 108-86-1
  9.890   9.890 (1.126)   156    681258 50.0000   49.667   0.00-   0.00   100.00
  9.890   9.890 (1.126)   158    661902                    0.00-   0.00    97.16
  9.890   9.890 (1.126)    77    848686                    0.00-   0.00   124.58
-------------------------------------------------------------------------------
  185 1,2,3-Trichloropropane                       CAS #: 96-18-4
  9.940   9.940 (1.132)   110    274618 50.0000   48.864   0.00-   0.00   100.00
  9.933   9.933 (1.131)    75   1043477                    0.00-   0.00   379.97
  9.933   9.933 (1.131)    61    256818                    0.00-   0.00    93.52
-------------------------------------------------------------------------------
  187 Decane                                       CAS #: 124-18-5
  9.983   9.983 (1.137)    57   1006879 50.0000   50.706   0.00-   0.00   100.00
  9.983   9.983 (1.137)    71    297023                    0.00-   0.00    29.50
  9.990   9.990 (1.138)   142     45127                    0.00-   0.00     4.48
-------------------------------------------------------------------------------
  189 2-Chlorotoluene                              CAS #: 95-49-8
 10.033  10.033 (1.143)   126    496798 50.0000   49.877   0.00-   0.00   100.00
 10.033  10.033 (1.143)    91   1283873                    0.00-   0.00   258.43
 10.033  10.033 (1.143)    65    133961                    0.00-   0.00    26.96
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE		RATIO
191 4-Chlorotoluene					CAS #: 106-43-4			
10.126	10.126 (1.153)	126	489456	50.0000	50.080	0.00-	0.00	100.00
10.126	10.126 (1.153)	91	1311487			0.00-	0.00	267.95
10.126	10.126 (1.153)	63	210929			0.00-	0.00	43.09
195 tert-Butylbenzene					CAS #: 98-06-6			
10.341	10.341 (1.178)	119	1429029	50.0000	48.765	0.00-	0.00	100.00
10.341	10.341 (1.178)	134	383844			0.00-	0.00	26.86
10.341	10.341 (1.178)	91	934710			0.00-	0.00	65.41
197 Pentachloroethane					CAS #: 76-01-7			
10.405	10.405 (1.185)	167	552560	50.0000	51.021	0.00-	0.00	100.00
10.405	10.405 (1.185)	117	460572			0.00-	0.00	83.35
10.405	10.405 (1.185)	169	266545			0.00-	0.00	48.24
199 D-Limonene					CAS #: 5989-27-5			
10.592	10.592 (1.206)	68	778627	50.0000	50.541	0.00-	0.00	100.00
10.599	10.599 (1.207)	93	1492588			0.00-	0.00	191.69
10.592	10.592 (1.206)	136	165928			0.00-	0.00	21.31
203 sec-Butylbenzene					CAS #: 135-98-8			
10.527	10.527 (1.199)	134	488139	50.0000	48.577	0.00-	0.00	100.00
10.527	10.527 (1.199)	105	2176955			0.00-	0.00	445.97
10.527	10.527 (1.199)	91	340448			0.00-	0.00	69.74
207 p-Cymene					CAS #: 99-87-6			
10.642	10.642 (1.212)	119	1957504	50.0000	50.533	0.00-	0.00	100.00
10.642	10.642 (1.212)	134	569774			0.00-	0.00	29.11
10.642	10.642 (1.212)	91	462239			0.00-	0.00	23.61
210 1,2,3-Trimethylbenzene					CAS #: 526-73-8			
10.764	10.764 (1.226)	120	722931	50.0000	50.011	0.00-	0.00	100.00
10.756	10.756 (1.225)	105	1651411			0.00-	0.00	228.43
10.756	10.756 (1.225)	77	197805			0.00-	0.00	27.36
213 Butylbenzene					CAS #: 104-51-8			
10.986	10.986 (1.251)	134	544529	50.0000	49.015	0.00-	0.00	100.00
10.986	10.986 (1.251)	91	1820953			0.00-	0.00	334.41
10.986	10.986 (1.251)	92	950441			0.00-	0.00	174.54
215 Undecane					CAS #: 1120-21-4			
10.978	10.978 (1.250)	57	1116670	50.0000	36.148	0.00-	0.00	100.00
10.978	10.978 (1.250)	43	1042207			0.00-	0.00	93.33
221 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8			
11.759	11.759 (1.339)	157	711346	50.0000	49.069	0.00-	0.00	100.00

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
221 1,2-Dibromo-3-chloropropane (continued)								
11.759	11.759	(1.339)	75	509630			0.00- 0.00	71.64
11.759	11.759	(1.339)	155	554176			0.00- 0.00	77.91
225 Dodecane						CAS #: 112-40-3		
11.895	11.895	(1.355)	57	598858	50.0000	39.026	0.00- 0.00	100.00
11.895	11.895	(1.355)	43	518905			0.00- 0.00	86.65

QC Flag Legend

T - Target compound detected outside RT window.
H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p050406.d
Lab Smp Id: ICAL Level #6
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/04may16.b/p16q0407b.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 04-MAY-2016
Calibration Time: 11:52
Client Smp ID: ICAL Level #6
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	131052	78631	183473	131052	0.00
123 1,4-Difluorobenze	516788	310073	723503	516788	0.00
163 Chlorobenzene-d5	475026	285016	665036	475026	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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.

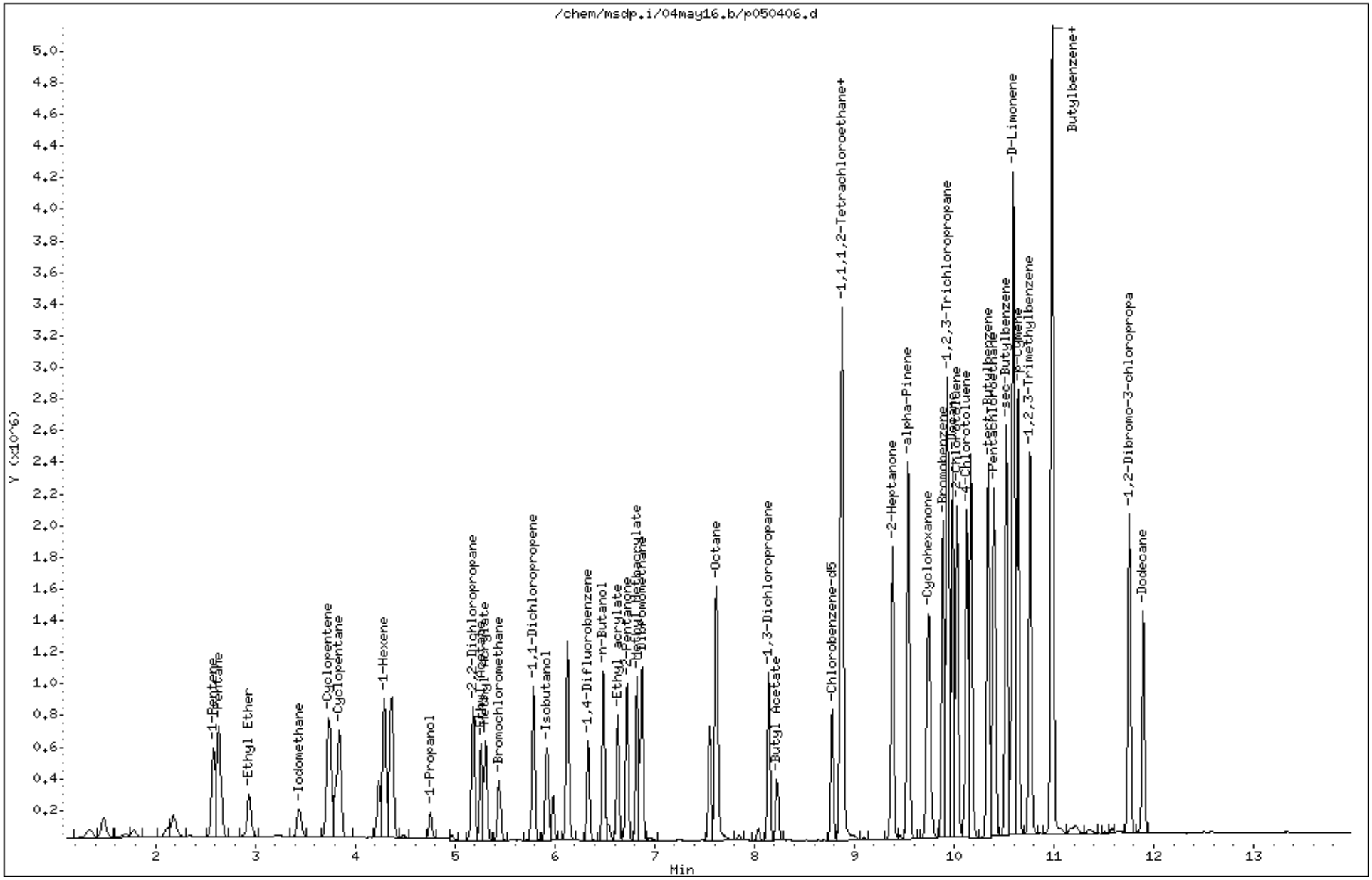
Data File: /chem/msdp.i/04may16.b/p050406.d
Date : 04-MAY-2016 11:52
Client ID: ICAL Level #6
Sample Info: 50ml #2789-104

Instrument: msdp.i

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040713.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 07-APR-2016 17:30
Operator : cb Inst ID: msdp.i
Smp Info : 50ml #2759-32
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 07-Apr-2016 19:29 troberts Quant Type: ISTD
Cal Date : 07-APR-2016 17:30 Cal File: p040713.d
Als bottle: 2 Calibration Sample, Level: 6
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.449 (1.000)	130	118758	25.0000		80.00- 120.00	100.00
5.449	5.449 (1.000)	128	94289			49.40- 109.40	79.40
5.449	5.449 (1.000)	49	217698			153.31- 213.31	183.31
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.344 (1.000)	114	479982	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	64228			0.00- 43.38	13.38
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.780	8.780 (1.000)	117	441761	25.0000		80.00- 120.00	100.00
8.780	8.780 (1.000)	82	226461			21.26- 81.26	51.26
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.099)	65	184163	25.0000	25.248	80.00- 120.00	100.00
5.986	5.986 (1.099)	67	102355			25.58- 85.58	55.58
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.555	7.555 (1.191)	98	474234	25.0000	24.479	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	49163			0.00- 40.37	10.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8 (continued)							
7.555	7.555 (1.191)	100	325758			38.69- 98.69	68.69
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.112)	174	364221	25.0000	25.214	80.00- 120.00	100.00
9.754	9.754 (1.111)	95	327631			59.95- 119.95	89.95
9.761	9.761 (1.112)	176	354994			67.47- 127.47	97.47
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	279175	50.0000	47.409	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	182414			35.34- 95.34	65.34
1.479	1.479 (0.271)	39	202082			42.39- 102.39	72.39
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.277)	85	636053	50.0000	46.548	80.00- 120.00	100.00
1.507	1.507 (0.277)	87	206247			2.43- 62.43	32.43
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.300)	135	501402	50.0000	46.652	80.00- 120.00	100.00
1.633	1.633 (0.300)	137	157621			1.44- 61.44	31.44
17 Chloromethane					CAS #: 74-87-3		
1.717	1.717 (0.315)	50	366008	50.0000	55.756	80.00- 120.00	100.00
1.717	1.717 (0.315)	52	115262			1.49- 61.49	31.49
23 Butane					CAS #: 106-97-8		
1.787	1.787 (0.328)	58	61210	50.0000	44.170	80.00- 120.00	100.00
1.787	1.787 (0.328)	43	529741			835.45- 895.45	865.45
25 Vinyl Chloride					CAS #: 75-01-4		
1.829	1.829 (0.336)	62	339781	50.0000	55.242	80.00- 120.00	100.00
1.829	1.829 (0.336)	64	83379			0.00- 54.54	24.54
26 1,3-Butadiene					CAS #: 106-99-0		
1.843	1.843 (0.338)	54	265114	50.0000	42.030	80.00- 120.00	100.00
1.843	1.843 (0.338)	39	354665			103.78- 163.78	133.78
29 Bromomethane					CAS #: 74-83-9		
2.211	2.211 (0.406)	94	193972	50.0000	47.446	80.00- 120.00	100.00
2.204	2.204 (0.404)	96	187126			66.47- 126.47	96.47
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.426)	64	128142	50.0000	49.265	80.00- 120.00	100.00
2.318	2.318 (0.426)	66	37835			0.00- 59.53	29.53
2.318	2.318 (0.426)	49	53319			11.61- 71.61	41.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.429)	43	411486	50.0000	46.182	80.00- 120.00	100.00
2.347	2.347 (0.431)	57	252435			31.35- 91.35	61.35
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.472)	101	673675	50.0000	47.016	80.00- 120.00	100.00
2.569	2.569 (0.472)	103	437973			35.01- 95.01	65.01
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	131374	50.0000	47.611	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	27787			0.00- 51.15	21.15
2.884	2.884 (0.529)	46	49878			7.97- 67.97	37.97
49 Freon 113					CAS #: 76-13-1		
3.214	3.214 (0.590)	151	528568	50.0000	49.117	80.00- 120.00	100.00
3.214	3.214 (0.590)	153	336347			33.63- 93.63	63.63
3.214	3.214 (0.590)	101	548782			73.82- 133.82	103.82
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.595)	98	140136	50.0000	46.364	80.00- 120.00	100.00
3.242	3.242 (0.595)	96	224997			130.56- 190.56	160.56
3.242	3.242 (0.595)	61	501441			327.82- 387.82	357.82
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	149904	50.0000	46.916	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	575604			353.98- 413.98	383.98
56 Carbon Disulfide					CAS #: 75-15-0		
3.472	3.472 (0.637)	76	628395	50.0000	46.284	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.652)	45	645698	50.0000	46.572	80.00- 120.00	100.00
3.550	3.550 (0.652)	43	130972			0.00- 50.28	20.28
3.550	3.550 (0.652)	59	20330			0.00- 33.15	3.15
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.683)	76	101680	50.0000	48.764	80.00- 120.00	100.00
3.722	3.722 (0.683)	41	463022			425.37- 485.37	455.37
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.716)	49	439041	50.0000	47.918	80.00- 120.00	100.00
3.901	3.901 (0.716)	84	197349			14.95- 74.95	44.95
3.901	3.901 (0.716)	51	133551			0.42- 60.42	30.42
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.009	4.009 (0.736)	59	665971	50.0000	47.757	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol (continued)							
4.009	4.009 (0.736)	41	155911			0.00- 53.41	23.41
4.009	4.009 (0.736)	57	78095			0.00- 41.73	11.73
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.124	4.124 (0.757)	73	677279	50.0000	47.959	80.00- 120.00	100.00
4.124	4.124 (0.757)	57	219217			2.37- 62.37	32.37
4.124	4.124 (0.757)	41	232781			4.37- 64.37	34.37
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.761)	98	147834	50.0000	48.840	80.00- 120.00	100.00
4.145	4.145 (0.761)	61	443347			269.90- 329.90	299.90
4.145	4.145 (0.761)	96	232770			127.45- 187.45	157.45
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.801)	57	506083	50.0000	47.772	80.00- 120.00	100.00
4.367	4.367 (0.801)	43	359256			40.99- 100.99	70.99
4.367	4.367 (0.801)	86	54687			0.00- 40.81	10.81
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.851)	63	525151	50.0000	48.226	80.00- 120.00	100.00
4.639	4.639 (0.851)	65	148964			0.00- 58.37	28.37
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.851)	45	1276034	50.0000	49.306	80.00- 120.00	100.00
4.639	4.639 (0.851)	87	217474			0.00- 47.04	17.04
4.639	4.639 (0.851)	59	125755			0.00- 39.86	9.86
86 Vinyl Acetate					CAS #: 108-05-4		
4.682	4.682 (0.859)	86	62646	50.0000	48.522	80.00- 120.00	100.00
4.682	4.682 (0.859)	43	1167204			1833.17-1893.17	1863.17
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.990	4.990 (0.916)	59	1035855	50.0000	49.177	80.00- 120.00	100.00
4.997	4.997 (0.917)	87	326074			1.48- 61.48	31.48
4.990	4.990 (0.916)	41	222754			0.00- 51.50	21.50
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.958)	98	157952	50.0000	51.238	80.00- 120.00	100.00
5.219	5.219 (0.958)	96	244354			124.70- 184.70	154.70
5.219	5.219 (0.958)	61	416786			233.87- 293.87	263.87
92 2-Butanone					CAS #: 78-93-3		
5.241	5.241 (0.962)	72	113803	50.0000	47.499	80.00- 120.00	100.00
5.241	5.241 (0.962)	43	730485			611.89- 671.89	641.89
5.241	5.241 (0.962)	57	54307			17.72- 77.72	47.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
5.442	5.442 (0.999)	42	401502	50.0000	48.488	80.00- 120.00	100.00
5.442	5.442 (0.999)	71	96222			0.00- 53.97	23.97
5.442	5.442 (0.999)	72	104063			0.00- 55.92	25.92
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.012)	83	501716	50.0000	48.574	80.00- 120.00	100.00
5.513	5.513 (1.012)	85	327502			35.28- 95.28	65.28
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.033)	84	326647	50.0000	49.185	80.00- 120.00	100.00
5.621	5.621 (1.032)	56	549456			138.21- 198.21	168.21
5.621	5.621 (1.032)	41	333980			72.24- 132.24	102.24
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.035)	97	585292	50.0000	48.869	80.00- 120.00	100.00
5.642	5.642 (1.035)	99	373580			33.83- 93.83	63.83
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.057)	119	626556	50.0000	49.742	80.00- 120.00	100.00
5.757	5.757 (1.057)	117	657420			74.93- 134.93	104.93
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.095)	57	1743802	50.0000	48.748	80.00- 120.00	100.00
5.964	5.964 (1.095)	56	566868			2.51- 62.51	32.51
5.964	5.964 (1.095)	41	504393			0.00- 58.92	28.92
116 Benzene					CAS #: 71-43-2		
5.972	5.972 (0.941)	78	681031	50.0000	46.033	80.00- 120.00	100.00
5.972	5.972 (0.941)	77	163698			0.00- 54.04	24.04
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.043	6.043 (0.953)	87	184131	50.0000	48.214	80.00- 120.00	100.00
6.043	6.043 (0.953)	73	754495			379.76- 439.76	409.76
6.043	6.043 (0.953)	55	265823			114.37- 174.37	144.37
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.050	6.050 (0.954)	62	428530	50.0000	48.490	80.00- 120.00	100.00
6.050	6.050 (0.954)	64	131075			0.59- 60.59	30.59
121 Heptane					CAS #: 142-82-5		
6.129	6.129 (0.966)	71	254430	50.0000	46.025	80.00- 120.00	100.00
6.129	6.129 (0.966)	43	665700			231.64- 291.64	261.64
6.129	6.129 (0.966)	57	339098			103.28- 163.28	133.28
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	338972	50.0000	46.663	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.537	6.537 (1.030)	130	380264			82.18- 142.18	112.18
6.537	6.537 (1.030)	97	215659			33.62- 93.62	63.62
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	469579	50.0000	48.327	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	220625			16.98- 76.98	46.98
6.638	6.638 (1.046)	55	531581			83.20- 143.20	113.20
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.767	6.767 (1.067)	63	336175	50.0000	47.412	80.00- 120.00	100.00
6.767	6.767 (1.067)	62	241048			41.70- 101.70	71.70
6.767	6.767 (1.067)	41	239124			41.13- 101.13	71.13
136 1,4-Dioxane					CAS #: 123-91-1		
6.853	6.853 (1.080)	88	172881	50.0000	46.675	80.00- 120.00	100.00
6.853	6.853 (1.080)	58	159600			62.32- 122.32	92.32
6.853	6.853 (1.080)	57	57404			3.20- 63.20	33.20
138 Bromodichloromethane					CAS #: 75-27-4		
6.989	6.989 (1.102)	83	563407	50.0000	47.498	80.00- 120.00	100.00
6.989	6.989 (1.102)	85	370450			35.75- 95.75	65.75
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.161)	75	475425	50.0000	48.247	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	146178			0.75- 60.75	30.75
7.368	7.368 (1.161)	39	361146			45.96- 105.96	75.96
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	314494	50.0000	47.446	80.00- 120.00	100.00
7.476	7.476 (1.178)	43	925432			264.26- 324.26	294.26
7.483	7.483 (1.180)	85	104028			3.08- 63.08	33.08
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	951514	50.0000	46.732	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	554589			28.28- 88.28	58.28
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	442774	50.0000	48.760	80.00- 120.00	100.00
7.841	7.841 (0.893)	77	135223			0.54- 60.54	30.54
7.841	7.841 (0.893)	39	317492			41.71- 101.71	71.71
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.999	7.999 (0.911)	97	329924	50.0000	48.437	80.00- 120.00	100.00
7.999	7.999 (0.911)	99	208614			33.23- 93.23	63.23
7.999	7.999 (0.911)	83	288353			57.40- 117.40	87.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.042	8.042 (0.916)	166	594232	50.0000	49.055	80.00- 120.00	100.00
8.042	8.042 (0.916)	129	385689			34.91- 94.91	64.91
8.042	8.042 (0.916)	131	382369			34.35- 94.35	64.35
158 2-Hexanone					CAS #: 591-78-6		
8.163	8.163 (0.930)	58	436147	50.0000	48.446	80.00- 120.00	100.00
8.163	8.163 (0.930)	43	897674			175.82- 235.82	205.82
8.171	8.171 (0.931)	100	69131			0.00- 45.85	15.85
160 Dibromochloromethane					CAS #: 124-48-1		
8.307	8.307 (0.946)	129	711724	50.0000	49.361	80.00- 120.00	100.00
8.307	8.307 (0.946)	127	557382			48.31- 108.31	78.31
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.421	8.421 (0.959)	107	541044	50.0000	48.928	80.00- 120.00	100.00
8.421	8.421 (0.959)	109	517397			65.63- 125.63	95.63
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.801 (1.002)	112	850058	50.0000	48.475	80.00- 120.00	100.00
8.801	8.801 (1.002)	114	271107			1.89- 61.89	31.89
8.801	8.801 (1.002)	77	447036			22.59- 82.59	52.59
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	435603	50.0000	48.838	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	1338428			277.26- 337.26	307.26
169 m,p-Xylene					CAS #: 108-38-3		
8.959	8.959 (1.020)	106	533349	50.0000	48.483	80.00- 120.00	100.00
8.951	8.951 (1.020)	91	1054059			167.63- 227.63	197.63
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.059)	106	514555	50.0000	50.406	80.00- 120.00	100.00
9.295	9.295 (1.059)	91	1074965			178.91- 238.91	208.91
172 Styrene					CAS #: 100-42-5		
9.310	9.310 (1.060)	104	840096	50.0000	51.054	80.00- 120.00	100.00
9.310	9.310 (1.060)	78	385945			15.94- 75.94	45.94
174 Bromoform					CAS #: 75-25-2		
9.503	9.503 (1.082)	173	880417	50.0000	50.200	80.00- 120.00	100.00
9.503	9.503 (1.082)	171	450130			21.13- 81.13	51.13
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.091)	105	1627553	50.0000	50.087	80.00- 120.00	100.00
9.582	9.582 (1.091)	120	449050			0.00- 57.59	27.59

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

  175 Cumene (continued)
  9.582   9.582 (1.091)    51    214901                     0.00-  43.20    13.20
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.883   9.883 (1.126)    83    805202 50.0000   48.969  80.00- 120.00   100.00
  9.883   9.883 (1.126)    85    525762                    35.30-  95.30    65.30
-------------------------------------------------------------------------------
  182 Propylbenzene                                CAS #: 103-65-1
  9.918   9.918 (1.130)    91   1938471 50.0000   48.880  80.00- 120.00   100.00
  9.918   9.918 (1.130)   120    469977                     0.00-  54.24    24.24
  9.918   9.918 (1.130)   105     70707                     0.00-  33.65     3.65
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                               CAS #: 622-96-8
 10.019  10.019 (1.141)   120    522775 50.0000   49.572  80.00- 120.00   100.00
 10.019  10.019 (1.141)   105   1640350                   283.78- 343.78   313.78
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
 10.069  10.069 (1.147)   120    718234 50.0000   50.744  80.00- 120.00   100.00
 10.069  10.069 (1.147)   105   1456511                   172.79- 232.79   202.79
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
 10.391  10.391 (1.184)   120    641089 50.0000   50.042  80.00- 120.00   100.00
 10.391  10.391 (1.184)   105   1385377                   186.10- 246.10   216.10
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                          CAS #: 541-73-1
 10.678  10.678 (1.216)   146   1083954 50.0000   48.986  80.00- 120.00   100.00
 10.678  10.678 (1.216)   148    700536                    34.63-  94.63    64.63
 10.671  10.671 (1.215)   111    402908                     7.17-  67.17    37.17
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                          CAS #: 106-46-7
 10.757  10.757 (1.225)   146   1105162 50.0000   48.890  80.00- 120.00   100.00
 10.757  10.757 (1.225)   148    702306                    33.55-  93.55    63.55
 10.757  10.757 (1.225)   111    381328                     4.50-  64.50    34.50
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.871  10.871 (1.238)    91   1411225 50.0000   49.076  80.00- 120.00   100.00
 10.871  10.871 (1.238)   126    321762                     0.00-  52.80    22.80
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                          CAS #: 95-50-1
 11.079  11.079 (1.262)   146   1053810 50.0000   49.663  80.00- 120.00   100.00
 11.079  11.079 (1.262)   148    669754                    33.56-  93.56    63.56
 11.079  11.079 (1.262)   111    391056                     7.11-  67.11    37.11
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 12.483  12.483 (1.422)   180   1118164 50.0000   49.065  80.00- 120.00   100.00
 12.483  12.483 (1.422)   182   1073960                    66.05- 126.05    96.05
-------------------------------------------------------------------------------
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RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.576	12.576	(1.432)	225	1004464	50.0000	49.073	80.00- 120.00	100.00
12.576	12.576	(1.432)	223	620345			31.76- 91.76	61.76
228 Naphthalene						CAS #: 91-20-3		
12.748	12.748	(1.452)	128	177200	5.00000	5.013	80.00- 120.00	100.00
12.748	12.748	(1.452)	127	23831			0.00- 43.45	13.45

Report Date: 07-Apr-2016 19:29

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p040713.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

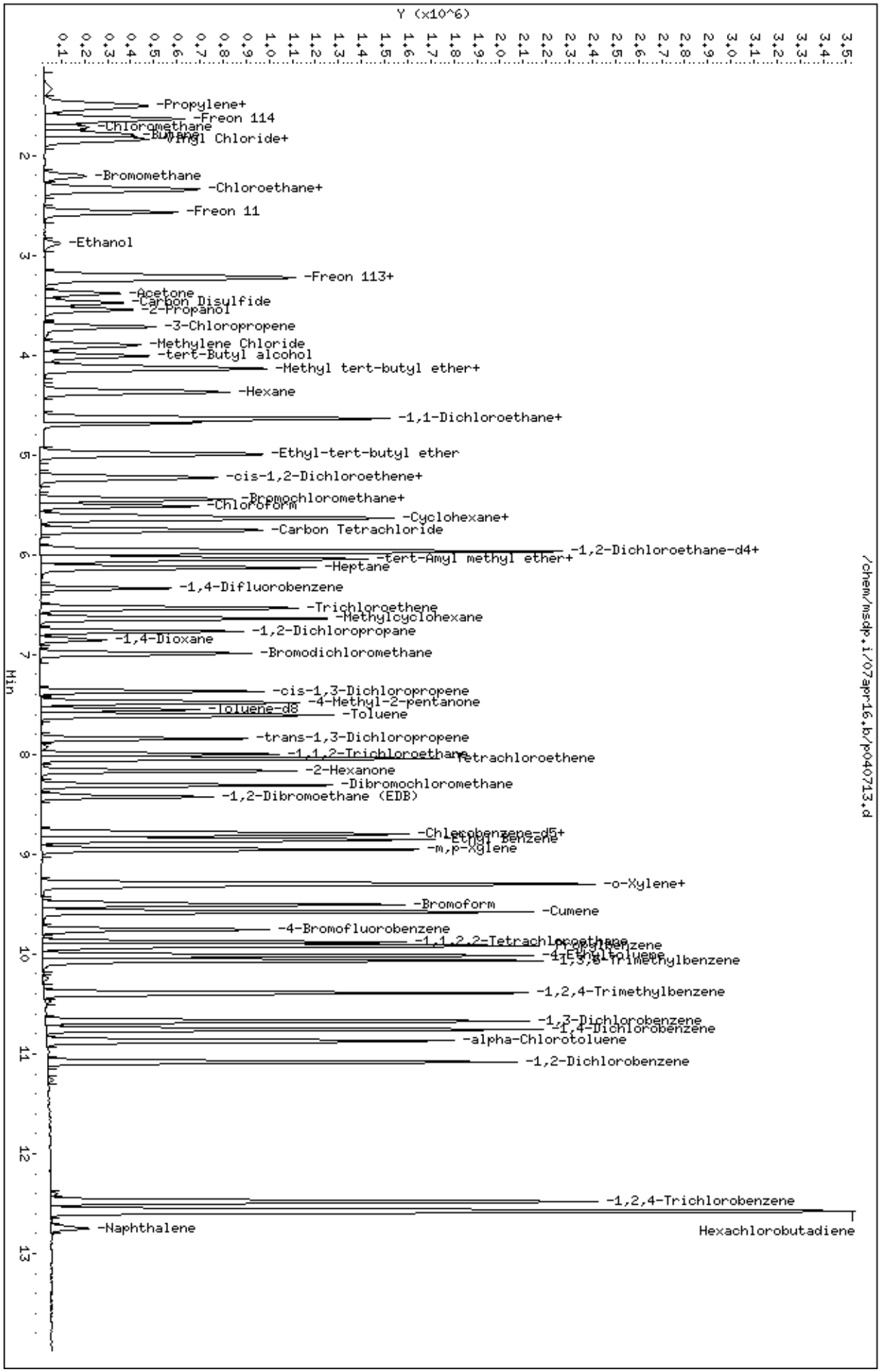
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	118758	0.00
123 1,4-Difluorobenze	479982	287989	671975	479982	0.00
163 Chlorobenzene-d5	441761	265057	618465	441761	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.45	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/07apr16.b/p040713.d
Date : 07-APR-2016 17:30
Client ID: Level 6
Sample Info: 50ml #2759-32
Column phase: RTX-624

Instrument: msdp.i
Operator: cb
Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040714.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 07-APR-2016 17:54
Operator : cb Inst ID: msdp.i
Smp Info : 100ml #2759-32
Misc Info : 100ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 07-Apr-2016 19:26 troberts Quant Type: ISTD
Cal Date : 07-APR-2016 17:54 Cal File: p040714.d
Als bottle: 2 Calibration Sample, Level: 7
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.449	5.449 (1.000)	130	118581	25.0000		80.00- 120.00	100.00
5.449	5.449 (1.000)	128	91545			49.40- 109.40	77.20
5.449	5.449 (1.000)	49	215623			153.31- 213.31	181.84
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.344 (1.000)	114	474067	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	67078			0.00- 43.38	14.15
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	454259	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	240314			21.26- 81.26	52.90
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.099)	65	189663	25.0000	26.040	80.00- 120.00	100.00
5.986	5.986 (1.099)	67	116778			25.58- 85.58	61.57
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.555	7.555 (1.191)	98	495855	25.0000	25.914	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	54796			0.00- 40.37	11.05

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

$ 146 Toluene-d8 (continued)
  7.555   7.555 (1.191)   100    331631                   38.69-  98.69    66.88
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.761   9.761 (1.112)   174    374384 25.0000   25.204  80.00- 120.00   100.00
  9.754   9.754 (1.111)    95    347052                   59.95- 119.95    92.70
  9.761   9.761 (1.112)   176    365864                   67.47- 127.47    97.72
-------------------------------------------------------------------------------
    9 Propylene                                     CAS #: 115-07-1
  1.479   1.479 (0.271)    41    576516 100.000   98.049  80.00- 120.00   100.00
  1.479   1.479 (0.271)    42    386260                   35.34-  95.34    67.00
  1.479   1.479 (0.271)    39    426639                   42.39- 102.39    74.00
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.521   1.521 (0.279)    85   1310884 100.000   96.077  80.00- 120.00   100.00
  1.521   1.521 (0.279)    87    427404                    2.43-  62.43    32.60
-------------------------------------------------------------------------------
   15 Freon 114                                     CAS #: 76-14-2
  1.633   1.633 (0.300)   135   1055133 100.000   98.319  80.00- 120.00   100.00
  1.633   1.633 (0.300)   137    330919                    1.44-  61.44    31.36
-------------------------------------------------------------------------------
   17 Chloromethane                                 CAS #: 74-87-3
  1.731   1.731 (0.318)    50    704675 100.000   107.51  80.00- 120.00   100.00
  1.731   1.731 (0.318)    52    214601                    1.49-  61.49    30.45
-------------------------------------------------------------------------------
   23 Butane                                        CAS #: 106-97-8
  1.801   1.801 (0.330)    58    152035 100.000   109.87  80.00- 120.00   100.00
  1.801   1.801 (0.330)    43   1097896                  835.45- 895.45   722.13
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                CAS #: 75-01-4
  1.828   1.828 (0.336)    62    645288 100.000   105.07  80.00- 120.00   100.00
  1.828   1.828 (0.336)    64    189286                    0.00-  54.54    29.33
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                 CAS #: 106-99-0
  1.856   1.856 (0.341)    54    661026 100.000   104.95  80.00- 120.00   100.00
  1.856   1.856 (0.341)    39    875090                  103.78- 163.78   132.38
-------------------------------------------------------------------------------
   29 Bromomethane                                  CAS #: 74-83-9
  2.211   2.211 (0.406)    94    407696 100.000   99.873  80.00- 120.00   100.00
  2.211   2.211 (0.406)    96    383509                   66.47- 126.47    94.07
-------------------------------------------------------------------------------
   30 Chloroethane                                  CAS #: 75-00-3
  2.326   2.326 (0.427)    64    270003 100.000   103.96  80.00- 120.00   100.00
  2.326   2.326 (0.427)    66     78382                    0.00-  59.53    29.03
  2.326   2.326 (0.427)    49    106172                   11.61-  71.61    39.32
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.431)	43	846593	100.000	95.156	80.00- 120.00	100.00
2.347	2.347 (0.431)	57	507200			31.35- 91.35	59.91
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.472)	101	1389475	100.000	97.117	80.00- 120.00	100.00
2.576	2.576 (0.473)	103	904434			35.01- 95.01	65.09
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	269886	100.000	97.955	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	56584			0.00- 51.15	20.97
2.884	2.884 (0.529)	46	107818			7.97- 67.97	39.95
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.591)	151	1045220	100.000	97.271	80.00- 120.00	100.00
3.221	3.221 (0.591)	153	676798			33.63- 93.63	64.75
3.214	3.214 (0.590)	101	1101733			73.82- 133.82	105.41
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.595)	98	301653	100.000	99.950	80.00- 120.00	100.00
3.242	3.242 (0.595)	96	472847			130.56- 190.56	156.75
3.242	3.242 (0.595)	61	1038286			327.82- 387.82	344.20
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	293275	100.000	91.924	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	1118730			353.98- 413.98	381.46
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	1312623	100.000	96.826	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.652)	45	1340880	100.000	96.858	80.00- 120.00	100.00
3.550	3.550 (0.652)	43	276872			0.00- 50.28	20.65
3.550	3.550 (0.652)	59	42888			0.00- 33.15	3.20
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.683)	76	213239	100.000	102.42	80.00- 120.00	100.00
3.722	3.722 (0.683)	41	973302			425.37- 485.37	456.44
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.716)	49	917332	100.000	100.27	80.00- 120.00	100.00
3.901	3.901 (0.716)	84	421397			14.95- 74.95	45.94
3.901	3.901 (0.716)	51	272246			0.42- 60.42	29.68
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.737)	59	1372883	100.000	98.596	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol (continued)							
4.009	4.009 (0.736)	41	315469			0.00- 53.41	22.98
4.009	4.009 (0.736)	57	153719			0.00- 41.73	11.20
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.757)	73	1365675	100.000	96.849	80.00- 120.00	100.00
4.123	4.123 (0.757)	57	442882			2.37- 62.37	32.43
4.123	4.123 (0.757)	41	469299			4.37- 64.37	34.36
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.761)	98	311346	100.000	103.01	80.00- 120.00	100.00
4.145	4.145 (0.761)	61	916714			269.90- 329.90	294.44
4.145	4.145 (0.761)	96	494894			127.45- 187.45	158.95
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.801)	57	1057896	100.000	100.01	80.00- 120.00	100.00
4.367	4.367 (0.801)	43	761610			40.99- 100.99	71.99
4.367	4.367 (0.801)	86	118894			0.00- 40.81	11.24
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.851)	63	1072306	100.000	98.619	80.00- 120.00	100.00
4.639	4.639 (0.851)	65	313722			0.00- 58.37	29.26
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.851)	45	2589817	100.000	100.22	80.00- 120.00	100.00
4.639	4.639 (0.851)	87	432530			0.00- 47.04	16.70
4.639	4.639 (0.851)	59	251062			0.00- 39.86	9.69
86 Vinyl Acetate					CAS #: 108-05-4		
4.682	4.682 (0.859)	86	131168	100.000	101.75	80.00- 120.00	100.00
4.682	4.682 (0.859)	43	2412445			1833.17-1893.17	1839.20
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.990	4.990 (0.916)	59	2108272	100.000	100.24	80.00- 120.00	100.00
4.990	4.990 (0.916)	87	652245			1.48- 61.48	30.94
4.990	4.990 (0.916)	41	447631			0.00- 51.50	21.23
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.958)	98	324335	100.000	105.37	80.00- 120.00	100.00
5.219	5.219 (0.958)	96	516292			124.70- 184.70	159.18
5.219	5.219 (0.958)	61	872900			233.87- 293.87	269.14
92 2-Butanone					CAS #: 78-93-3		
5.241	5.241 (0.962)	72	241476	100.000	100.94	80.00- 120.00	100.00
5.241	5.241 (0.962)	43	1536665			611.89- 671.89	636.36
5.241	5.241 (0.962)	57	112856			17.72- 77.72	46.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
5.441	5.441 (0.999)	42	836525	100.000	101.18	80.00- 120.00	100.00
5.441	5.441 (0.999)	71	210834			0.00- 53.97	25.20
5.441	5.441 (0.999)	72	217953			0.00- 55.92	26.05
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.012)	83	1051210	100.000	101.92	80.00- 120.00	100.00
5.513	5.513 (1.012)	85	682498			35.28- 95.28	64.92
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.033)	84	653904	100.000	98.610	80.00- 120.00	100.00
5.628	5.628 (1.033)	56	1132274			138.21- 198.21	173.16
5.628	5.628 (1.033)	41	679611			72.24- 132.24	103.93
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.035)	97	1157039	100.000	96.751	80.00- 120.00	100.00
5.642	5.642 (1.035)	99	742491			33.83- 93.83	64.17
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.057)	119	1264589	100.000	100.54	80.00- 120.00	100.00
5.757	5.757 (1.057)	117	1332183			74.93- 134.93	105.35
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.095)	57	3543944	100.000	99.218	80.00- 120.00	100.00
5.957	5.957 (1.093)	56	1148977			2.51- 62.51	32.42
5.957	5.957 (1.093)	41	1026099			0.00- 58.92	28.95
116 Benzene					CAS #: 71-43-2		
5.972	5.972 (0.941)	78	1408352	100.000	96.383	80.00- 120.00	100.00
5.972	5.972 (0.941)	77	336732			0.00- 54.04	23.91
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.043	6.043 (0.953)	87	382286	100.000	101.35	80.00- 120.00	100.00
6.043	6.043 (0.953)	73	1549321			379.76- 439.76	405.28
6.043	6.043 (0.953)	55	527431			114.37- 174.37	137.97
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.050	6.050 (0.954)	62	894681	100.000	102.50	80.00- 120.00	100.00
6.050	6.050 (0.954)	64	268230			0.59- 60.59	29.98
121 Heptane					CAS #: 142-82-5		
6.129	6.129 (0.966)	71	516294	100.000	94.561	80.00- 120.00	100.00
6.129	6.129 (0.966)	43	1338988			231.64- 291.64	259.35
6.129	6.129 (0.966)	57	691856			103.28- 163.28	134.00
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	714032	100.000	99.520	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.537	6.537 (1.030)	130	796259			82.18- 142.18	111.52
6.537	6.537 (1.030)	97	455897			33.62- 93.62	63.85
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	941049	100.000	98.057	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	441311			16.98- 76.98	46.90
6.638	6.638 (1.046)	55	1081206			83.20- 143.20	114.89
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.767	6.767 (1.067)	63	696197	100.000	99.413	80.00- 120.00	100.00
6.767	6.767 (1.067)	62	496739			41.70- 101.70	71.35
6.767	6.767 (1.067)	41	484618			41.13- 101.13	69.61
136 1,4-Dioxane					CAS #: 123-91-1		
6.853	6.853 (1.080)	88	361553	100.000	98.831	80.00- 120.00	100.00
6.853	6.853 (1.080)	58	336670			62.32- 122.32	93.12
6.853	6.853 (1.080)	57	113783			3.20- 63.20	31.47
138 Bromodichloromethane					CAS #: 75-27-4		
6.989	6.989 (1.102)	83	1193246	100.000	101.85	80.00- 120.00	100.00
6.989	6.989 (1.102)	85	756458			35.75- 95.75	63.39
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.161)	75	986438	100.000	101.36	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	302216			0.75- 60.75	30.64
7.368	7.368 (1.161)	39	759002			45.96- 105.96	76.94
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	657322	100.000	100.40	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	1892068			264.26- 324.26	287.84
7.483	7.483 (1.180)	85	213827			3.08- 63.08	32.53
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	1978176	100.000	98.368	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	1155779			28.28- 88.28	58.43
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	914030	100.000	97.886	80.00- 120.00	100.00
7.841	7.841 (0.893)	77	292292			0.54- 60.54	31.98
7.841	7.841 (0.893)	39	663846			41.71- 101.71	72.63
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.999	7.999 (0.911)	97	692399	100.000	98.856	80.00- 120.00	100.00
7.999	7.999 (0.911)	99	420945			33.23- 93.23	60.80
7.999	7.999 (0.911)	83	581708			57.40- 117.40	84.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.042	8.042 (0.916)	166	1236736	100.000	99.286	80.00- 120.00	100.00
8.042	8.042 (0.916)	129	791148			34.91- 94.91	63.97
8.042	8.042 (0.916)	131	779269			34.35- 94.35	63.01
158 2-Hexanone					CAS #: 591-78-6		
8.163	8.163 (0.930)	58	900472	100.000	97.270	80.00- 120.00	100.00
8.163	8.163 (0.930)	43	1854726			175.82- 235.82	205.97
8.171	8.171 (0.931)	100	144601			0.00- 45.85	16.06
160 Dibromochloromethane					CAS #: 124-48-1		
8.307	8.307 (0.946)	129	1463681	100.000	98.720	80.00- 120.00	100.00
8.307	8.307 (0.946)	127	1132980			48.31- 108.31	77.41
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.421	8.421 (0.959)	107	1147589	100.000	100.92	80.00- 120.00	100.00
8.421	8.421 (0.959)	109	1066629			65.63- 125.63	92.95
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.801 (1.002)	112	1745917	100.000	96.823	80.00- 120.00	100.00
8.801	8.801 (1.002)	114	557026			1.89- 61.89	31.90
8.801	8.801 (1.002)	77	908830			22.59- 82.59	52.05
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	888032	100.000	96.824	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	2723124			277.26- 337.26	306.65
169 m,p-Xylene					CAS #: 108-38-3		
8.951	8.951 (1.020)	106	1096589	100.000	96.940	80.00- 120.00	100.00
8.951	8.951 (1.020)	91	2150177			167.63- 227.63	196.08
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.059)	106	1047133	100.000	99.755	80.00- 120.00	100.00
9.295	9.295 (1.059)	91	2159318			178.91- 238.91	206.21
172 Styrene					CAS #: 100-42-5		
9.310	9.310 (1.060)	104	1721085	100.000	101.72	80.00- 120.00	100.00
9.310	9.310 (1.060)	78	795717			15.94- 75.94	46.23
174 Bromoform					CAS #: 75-25-2		
9.503	9.503 (1.082)	173	1832636	100.000	101.62	80.00- 120.00	100.00
9.503	9.503 (1.082)	171	925276			21.13- 81.13	50.49
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.091)	105	3306254	100.000	98.949	80.00- 120.00	100.00
9.582	9.582 (1.091)	120	916877			0.00- 57.59	27.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Cumene (continued)							
9.582	9.582 (1.091)	51	447886			0.00- 43.20	13.55
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.883	9.883 (1.126)	83	1617691	100.000	95.675	80.00- 120.00	100.00
9.883	9.883 (1.126)	85	1053987			35.30- 95.30	65.15
182 Propylbenzene					CAS #: 103-65-1		
9.918	9.918 (1.130)	91	3894151	100.000	95.492	80.00- 120.00	100.00
9.918	9.918 (1.130)	120	946137			0.00- 54.24	24.30
9.918	9.918 (1.130)	105	140869			0.00- 33.65	3.62
188 4-Ethyltoluene					CAS #: 622-96-8		
10.011	10.011 (1.140)	120	1062980	100.000	98.023	80.00- 120.00	100.00
10.011	10.011 (1.140)	105	3343596			283.78- 343.78	314.55
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.147)	120	1443485	100.000	99.178	80.00- 120.00	100.00
10.069	10.069 (1.147)	105	2933252			172.79- 232.79	203.21
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.184)	120	1299832	100.000	98.670	80.00- 120.00	100.00
10.391	10.391 (1.184)	105	2803082			186.10- 246.10	215.65
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.671	10.671 (1.215)	146	2194376	100.000	96.440	80.00- 120.00	100.00
10.678	10.678 (1.216)	148	1398959			34.63- 94.63	63.75
10.671	10.671 (1.215)	111	798666			7.17- 67.17	36.40
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.756	10.756 (1.225)	146	2215248	100.000	95.302	80.00- 120.00	100.00
10.756	10.756 (1.225)	148	1407820			33.55- 93.55	63.55
10.756	10.756 (1.225)	111	760522			4.50- 64.50	34.33
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.871	10.871 (1.238)	91	2838881	100.000	96.008	80.00- 120.00	100.00
10.871	10.871 (1.238)	126	654183			0.00- 52.80	23.04
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.262)	146	2129193	100.000	97.582	80.00- 120.00	100.00
11.079	11.079 (1.262)	148	1358711			33.56- 93.56	63.81
11.079	11.079 (1.262)	111	793059			7.11- 67.11	37.25
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.483	12.483 (1.422)	180	2333852	100.000	99.592	80.00- 120.00	100.00
12.483	12.483 (1.422)	182	2235027			66.05- 126.05	95.77

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.576	12.576	(1.432)	225	2101259	100.000	99.832	80.00- 120.00	100.00
12.576	12.576	(1.432)	223	1316512			31.76- 91.76	62.65
228 Naphthalene						CAS #: 91-20-3		
12.748	12.748	(1.452)	128	357138	10.0000	9.826	80.00- 120.00	100.00
12.748	12.748	(1.452)	127	48318			0.00- 43.45	13.53

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p040714.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 100ppbv(200ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

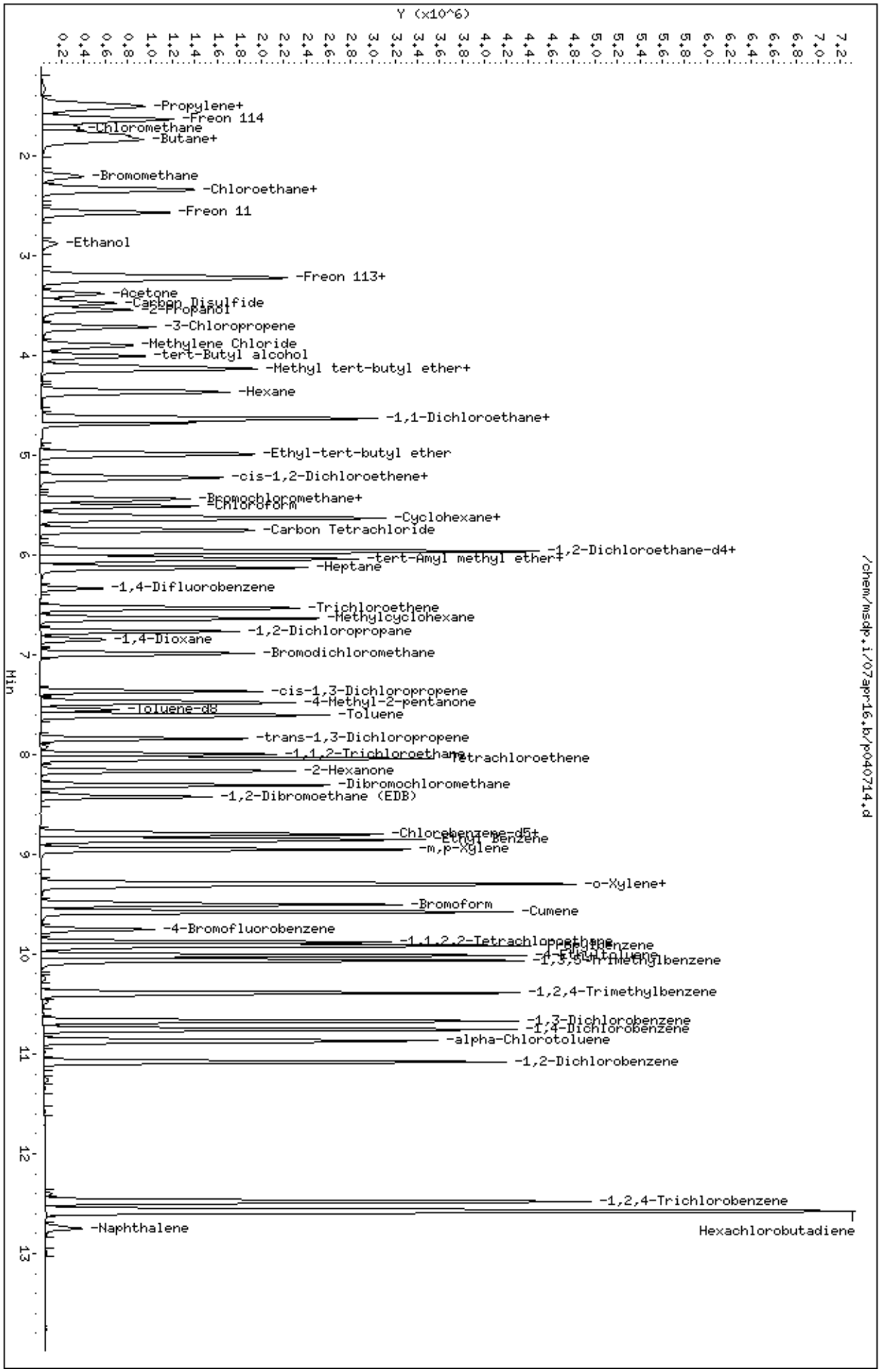
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	118581	-0.15
123 1,4-Difluorobenze	479982	287989	671975	474067	-1.23
163 Chlorobenzene-d5	441761	265057	618465	454259	2.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.45	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/07apr16.b/p040714.d
Date : 07-APR-2016 17:54
Client ID: Level 7
Sample Info: 100ml #2759-32
Column phase: RTX-624

Instrument: msdp.i
Operator: cb
Column diameter: 0.25



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/12jul16.b/p071208.d
Lab Smp Id: ICAL level 8
Inj Date : 12-JUL-2016 14:26
Operator : gd Inst ID: msdp.i
Smp Info : 200ml 2789-132
Misc Info : 200ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/12jul16.b/p16q0407e.m
Meth Date : 12-Jul-2016 16:15 gdelacru Quant Type: ISTD
Cal Date : 12-JUL-2016 14:26 Cal File: p071208.d
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AnitrileICAL.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
63 Acetonitrile					CAS #: 75-05-8		
3.801	3.801 (0.699)	39	214240	200.000	186.06	0.00- 0.00	100.00(A)
3.801	3.801 (0.699)	41	1113186			0.00- 0.00	519.60
3.801	3.801 (0.699)	40	562911			0.00- 0.00	262.75
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	96438	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	72323			49.40- 109.40	74.99
5.441	5.441 (1.000)	49	214436			153.31- 213.31	222.36
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	374975	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	53599			0.00- 43.38	14.29
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.772	8.772 (1.000)	117	353512	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	189368			21.26- 81.26	53.57

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: msdp.i
Lab File ID: p071208.d
Lab Smp Id: ICAL level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/12jul16.b/p16q0407e.m
Misc Info: 200ppbv

Calibration Date: 12-JUL-2016
Calibration Time: 09:40

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	92780	55668	129892	96438	3.94
123 1,4-Difluorobenze	396495	237897	555093	374975	-5.43
163 Chlorobenzene-d5	359757	215854	503660	353512	-1.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.33	6.00	6.66	6.34	0.11
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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/msdp.i/12jul16.b/p071208.d

Date : 12-JUL-2016 14:26

Client ID:

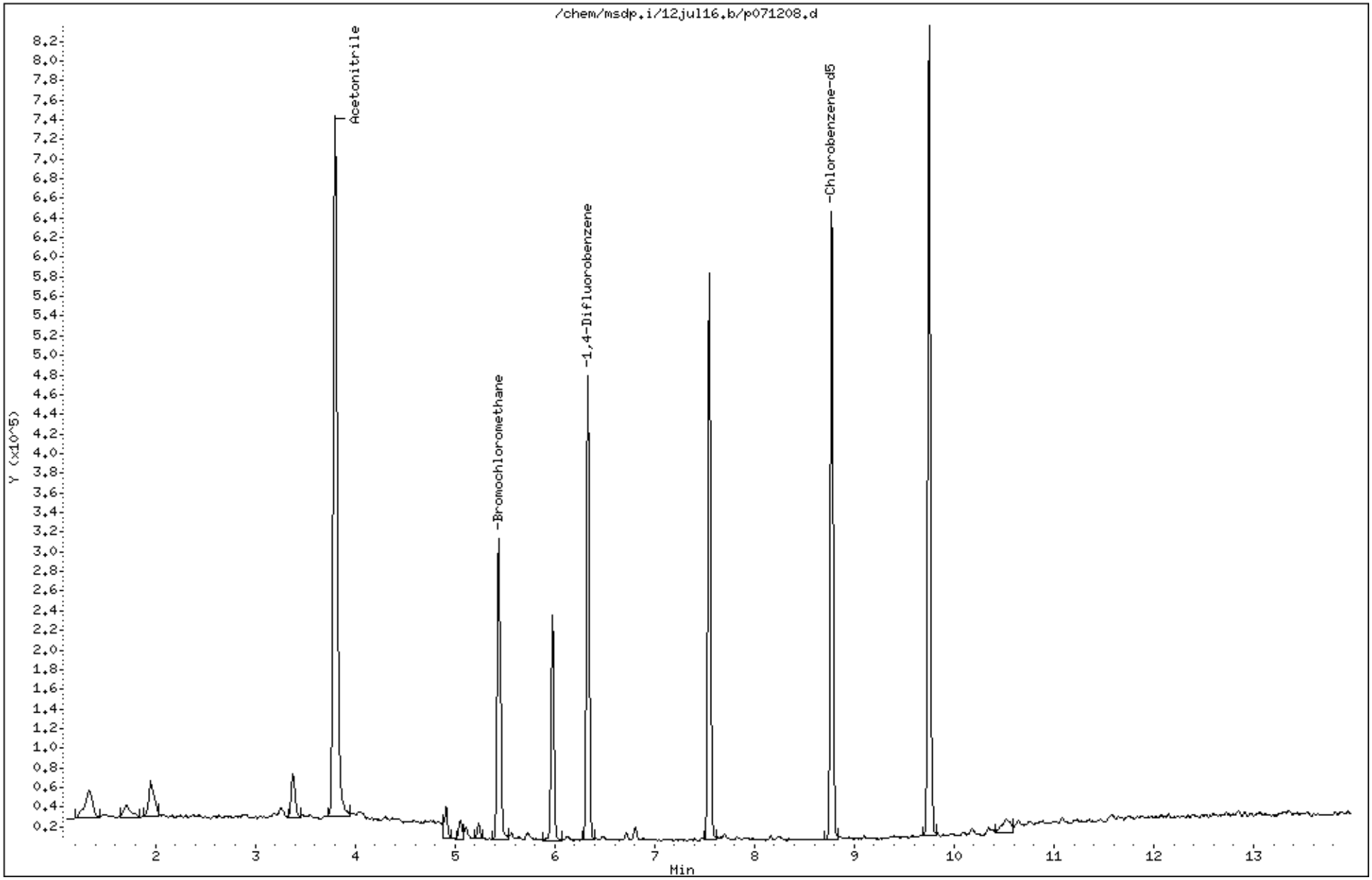
Sample Info: 200ml 2789-132

Column phase: RTX-624

Instrument: msdp.i

Operator: gd

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17jun16.b/p061710.d
Lab Smp Id: ICAL Level #8
Inj Date : 17-JUN-2016 12:50
Operator : jcw Inst ID: msdp.i
Smp Info : 200ml 2789-194
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17jun16.b/p16q0407d.m
Meth Date : 21-Jun-2016 11:12 jwu Quant Type: ISTD
Cal Date : 17-JUN-2016 12:50 Cal File: p061710.d
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 123TCB.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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.441	5.441 (1.000)	130	98647	25.0000		80.00- 120.00	100.00
5.448	5.448 (1.000)	128	79367			49.40- 109.40	80.46
5.441	5.441 (1.000)	49	212818			153.31- 213.31	215.74
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.337 (1.000)	114	402584	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	55835			0.00- 43.38	13.87
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	374607	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	193087			21.26- 81.26	51.54
229 1,2,3-Trichlorobenzene						CAS #: 87-61-6	
12.991	12.991 (1.481)	180	3335033	200.000	197.05	0.00- 0.00	100.00
12.991	12.991 (1.481)	182	3203593			0.00- 0.00	96.06
12.991	12.991 (1.481)	145	908143			0.00- 0.00	27.23

Report Date: 21-Jun-2016 11:12

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p061710.d
Lab Smp Id: ICAL Level #8
Analysis Type: VOA
Quant Type: ISTD
Operator: jcw
Method File: /chem/msdp.i/17jun16.b/p16q0407d.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 17-JUN-2016
Calibration Time: 10:21

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	103909	62345	145473	98647	-5.06
123 1,4-Difluorobenze	395331	237199	553463	402584	1.83
163 Chlorobenzene-d5	363807	218284	509330	374607	2.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.77	-0.08

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/msdp.i/17jun16.b/p061710.d

Page 1

Date : 17-JUN-2016 12:50

Client ID:

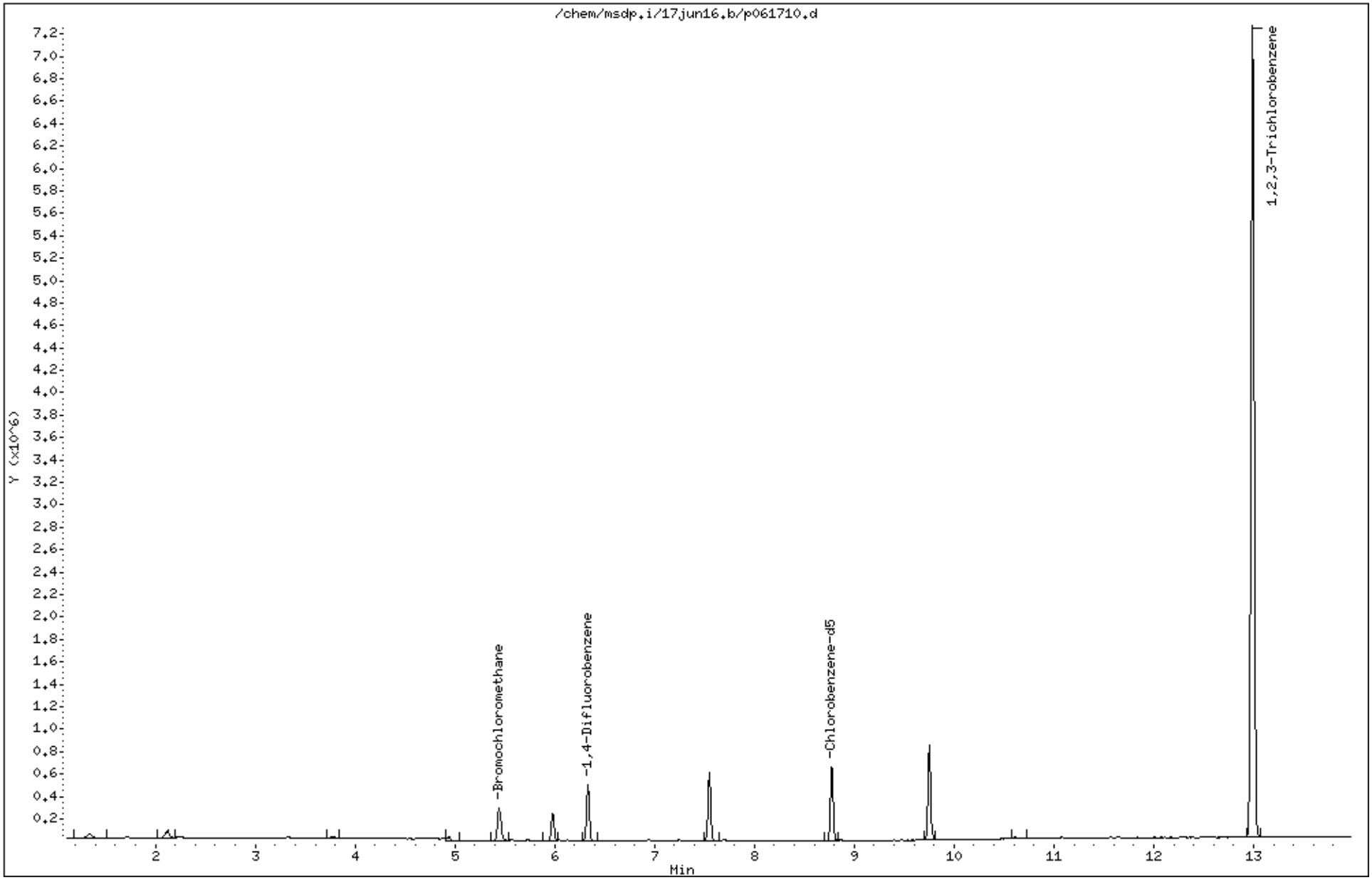
Instrument: msdp.i

Sample Info: 200ml 2789-194

Operator: jcw

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/16jun16.b/p061620.d
Lab Smp Id: ICAL Level#8
Inj Date : 16-JUN-2016 21:54
Operator : gh Inst ID: msdp.i
Smp Info : 200ml 2789-185
Misc Info : 200ppbv(200pbbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/16jun16.b/p16q0407c.m
Meth Date : 21-Jun-2016 16:21 sblack Quant Type: ISTD
Cal Date : 16-JUN-2016 21:54 Cal File: p061620.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2part1.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
32 Vinyl Bromide					CAS #: 593-60-2		
2.526	2.526 (0.464)	106	889845	200.000	204.41	0.00- 0.00	100.00(A)
2.526	2.526 (0.464)	108	831126			0.00- 0.00	93.40
61 Methyl Acetate					CAS #: 79-20-9		
3.751	3.751 (0.688)	43	3071236	200.000	148.70	0.00- 0.00	100.00
3.751	3.751 (0.688)	74	358641			0.00- 0.00	11.68
85 Chloroprene					CAS #: 126-99-8		
4.682	4.682 (0.859)	53	2270024	200.000	216.90	0.00- 0.00	100.00(A)
4.682	4.682 (0.859)	88	755746			0.00- 0.00	33.29
4.682	4.682 (0.859)	50	653656			0.00- 0.00	28.80
* 98 Bromochloromethane					CAS #: 74-97-5		
5.449	5.449 (1.000)	130	98859	25.0000		80.00- 120.00	100.00
5.449	5.449 (1.000)	128	75793			49.40- 109.40	76.67
5.449	5.449 (1.000)	49	210966			153.31- 213.31	213.40
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.337	6.337 (1.000)	114	407872	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 123 1,4-Difluorobenzene (continued)							
6.337	6.337 (1.000)	88	60132			0.00- 43.38	14.74
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.779	8.779 (1.000)	117	387332	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	209901			21.26- 81.26	54.19
184 trans-1,4-Dichloro-2-butene					CAS #: 110-57-6		
9.940	9.940 (1.132)	75	1199917	200.000		0.00- 0.00	100.00(a)
9.940	9.940 (1.132)	89	636181			0.00- 0.00	53.02
9.940	9.940 (1.132)	53	1387395			0.00- 0.00	115.62
217 Hexachloroethane					CAS #: 67-72-1		
11.286	11.286 (1.286)	201	1817198	200.000	228.76	0.00- 0.00	100.00(A)
11.279	11.279 (1.285)	117	1833682			0.00- 0.00	100.91
224 1,3,5-Trichlorobenzene					CAS #: 108-70-3		
11.917	11.917 (1.357)	180	3706834	200.000	221.91	0.00- 0.00	100.00(A)
11.917	11.917 (1.357)	182	3526332			0.00- 0.00	95.13

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: msdp.i
Lab File ID: p061620.d
Lab Smp Id: ICAL Level#8
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msdp.i/16jun16.b/p16q0407c.m
Misc Info: 200ppbv(200pbbv)

Calibration Date: 16-JUN-2016
Calibration Time: 09:16

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	104544	62726	146362	98859	-5.44
123 1,4-Difluorobenze	423236	253942	592530	407872	-3.63
163 Chlorobenzene-d5	390160	234096	546224	387332	-0.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.78	0.08

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/msdp.i/16jun16.b/p061620.d

Date : 16-JUN-2016 21:54

Client ID:

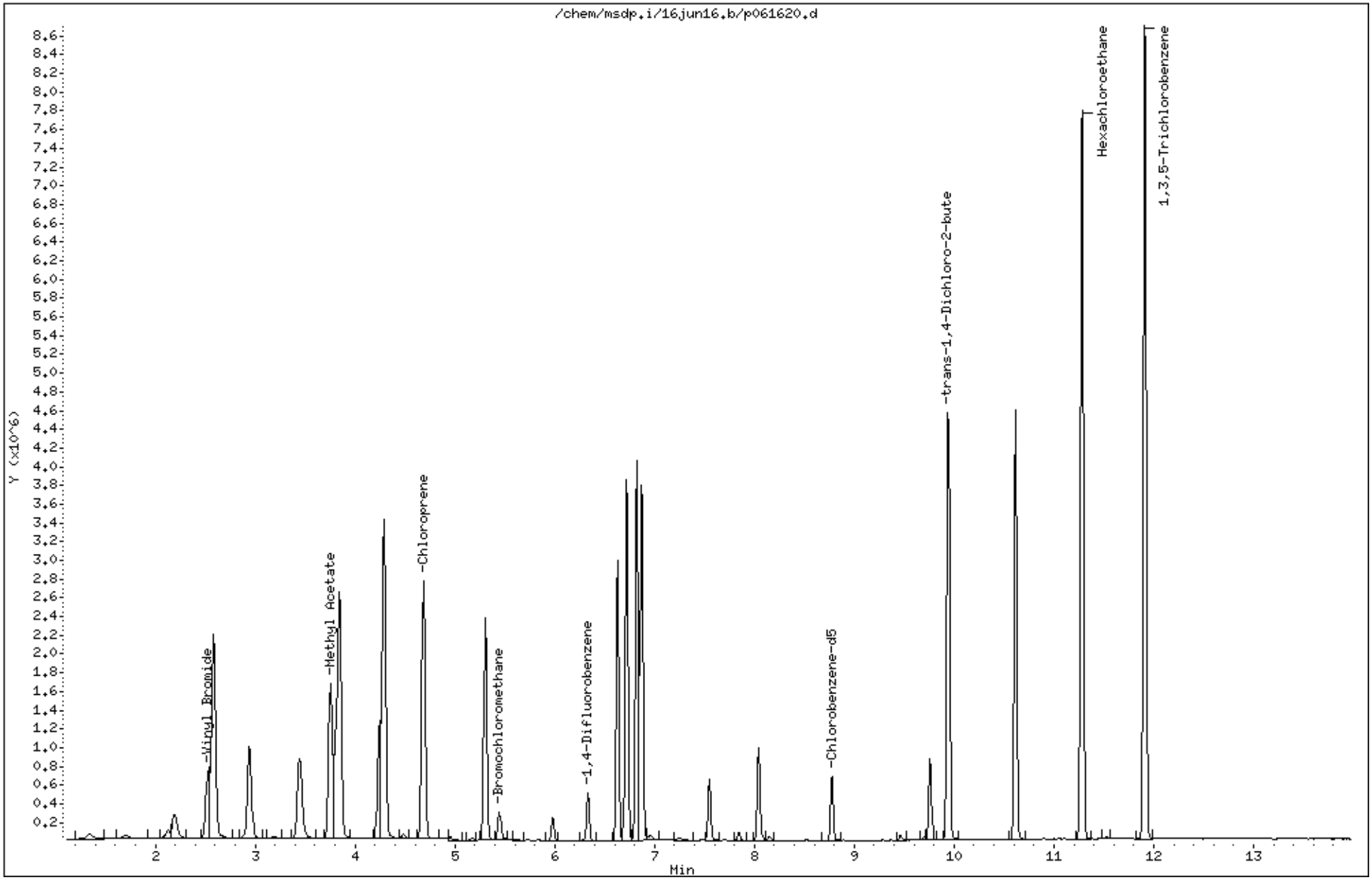
Sample Info: 200ml 2789-185

Column phase: RTX-624

Instrument: msdp.i

Operator: gh

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/12may16.b/p051207.d
Lab Smp Id: ICAL Level #8 Client Smp ID: ICAL Level #8
Inj Date : 12-MAY-2016 13:00
Operator : jg Inst ID: msdp.i
Smp Info : 200ml #2789-115
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/12may16.b/p16q0407b.m
Meth Date : 21-Jun-2016 13:26 jwu Quant Type: ISTD
Cal Date : 12-MAY-2016 13:00 Cal File: p051207.d
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Freoncrv.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
7 Freon 134a					CAS #: 811-97-2		
1.451	1.451 (0.266)	83	664697	200.000	188.98	0.00- 0.00	100.00
1.451	1.451 (0.266)	69	879279			0.00- 0.00	132.28
1.451	1.451 (0.266)	63	87356			0.00- 0.00	13.14
10 1,1-Difluoroethane					CAS #: 75-37-6		
1.507	1.507 (0.277)	65	315470	200.000	163.15	0.00- 0.00	100.00
1.549	1.549 (0.284)	51	2736107			0.00- 0.00	867.31
1.507	1.507 (0.277)	47	240514			0.00- 0.00	76.24
13 Chlorodifluoromethane					CAS #: 75-45-6		
1.549	1.549 (0.284)	67	197464	200.000	191.79	0.00- 0.00	100.00
1.549	1.549 (0.284)	51	2757190			0.00- 0.00	1396.30
1.549	1.549 (0.284)	85	17101			0.00- 0.00	8.66
16 Freon 142b					CAS #: 75-68-3		
1.675	1.675 (0.307)	65	1949492	200.000	201.67	0.00- 0.00	100.00(A)
1.675	1.675 (0.307)	45	631631			0.00- 0.00	32.40
37 Dichlorofluoromethane					CAS #: 75-43-4		
2.576	2.576 (0.473)	67	2054472	200.000	207.20	0.00- 0.00	100.00(TA)

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

   37 Dichlorofluoromethane (continued)
  2.576   2.576 (0.473)    69    641910                     0.00-   0.00    31.24
  0.000   1.000 (0.000)    35         0                     0.00-   0.00     0.00
-------------------------------------------------------------------------------
   48 Freon 123                                    CAS #: 306-83-2
  3.142   3.142 (0.577)    83   2074028 200.000   202.01   0.00-   0.00   100.00(A)
  3.142   3.142 (0.577)   133    508594                     0.00-   0.00    24.52
  3.142   3.142 (0.577)    85   1384101                     0.00-   0.00    66.73
-------------------------------------------------------------------------------
*  98 Bromochloromethane                            CAS #: 74-97-5
  5.449   5.449 (1.000)   130    114232 25.0000           80.00- 120.00   100.00
  5.449   5.449 (1.000)   128     88872                   49.40- 109.40    77.80
  5.449   5.449 (1.000)    49    212079                  153.31- 213.31   185.66
-------------------------------------------------------------------------------
* 123 1,4-Difluorobenzene                           CAS #: 540-36-3
  6.337   6.337 (1.000)   114    466959 25.0000           80.00- 120.00   100.00
  6.337   6.337 (1.000)    88     64670                    0.00-  43.38    13.85
-------------------------------------------------------------------------------
* 163 Chlorobenzene-d5                              CAS #: 3114-55-4
  8.779   8.779 (1.000)   117    439772 25.0000           80.00- 120.00   100.00
  8.779   8.779 (1.000)    82    224721                   21.26-  81.26    51.10
-------------------------------------------------------------------------------
```

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p051207.d
Lab Smp Id: ICAL Level #8
Analysis Type: VOA
Quant Type: ISTD
Operator: jg
Method File: /chem/msdp.i/12may16.b/p16q0407b.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 12-MAY-2016
Calibration Time: 10:09
Client Smp ID: ICAL Level #8
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	112584	67550	157618	114232	1.46
123 1,4-Difluorobenze	443624	266174	621074	466959	5.26
163 Chlorobenzene-d5	420265	252159	588371	439772	4.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/12may16.b/p051207.d

Date : 12-MAY-2016 13:00

Client ID: ICAL Level #8

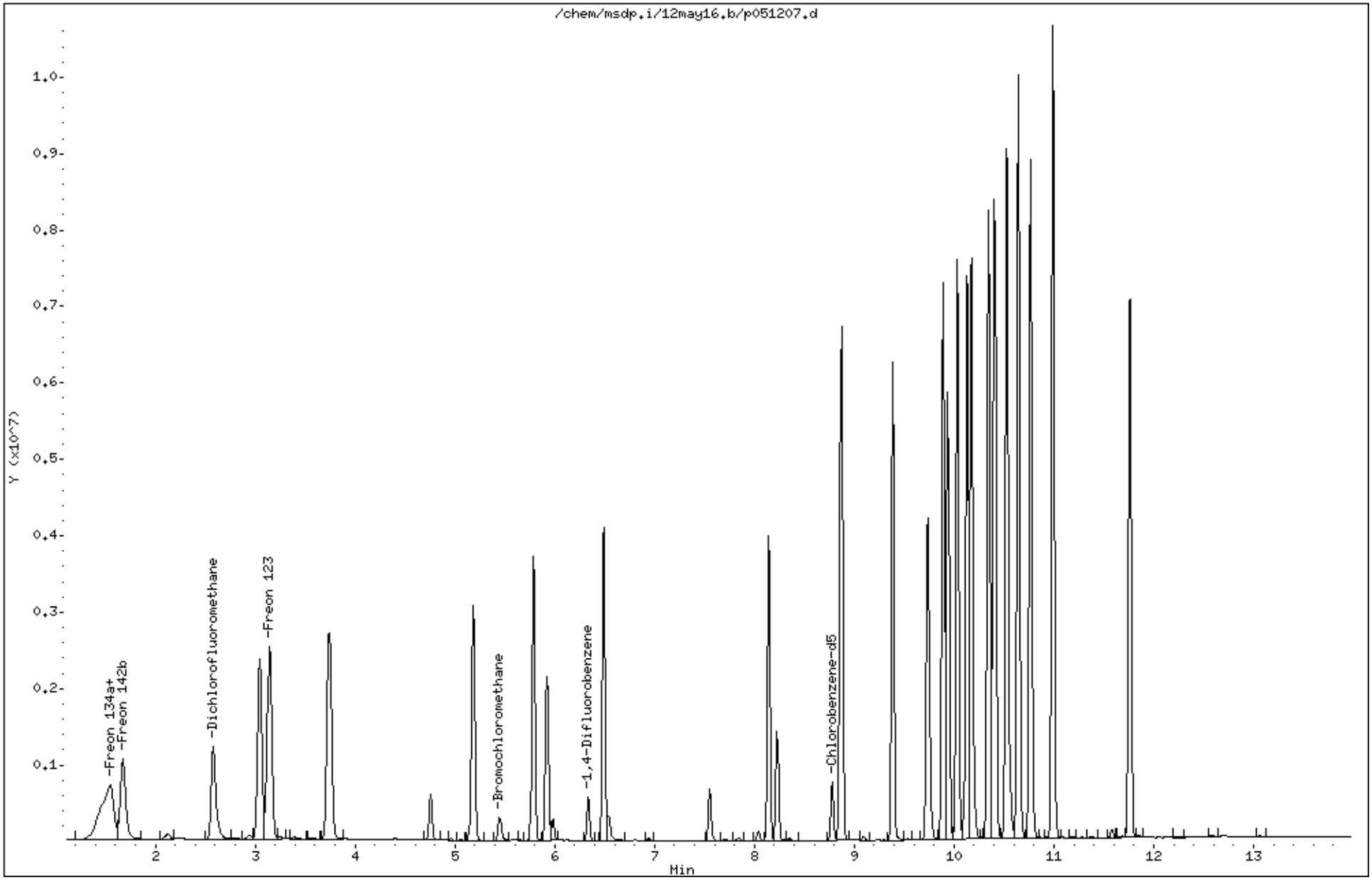
Sample Info: 200ml #2789-115

Column phase: RTX-624

Instrument: msdp.i

Operator: jg

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/04may16.b/p050407.d
Lab Smp Id: ICAL Level #8 Client Smp ID: ICAL Level #8
Inj Date : 04-MAY-2016 12:19
Operator : cb Inst ID: msdp.i
Smp Info : 200ml #2789-104
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/04may16.b/p16q0407b.m
Meth Date : 21-Jun-2016 13:24 jwu Quant Type: ISTD
Cal Date : 04-MAY-2016 12:19 Cal File: p050407.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ComboICAL.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
36 1-Pentene					CAS #: 109-67-1		
2.583	2.583 (0.474)	55	1498219	200.000	205.60	0.00- 0.00	100.00(A)
2.591	2.591 (0.475)	42	1899657			0.00- 0.00	126.79
34 Pentane					CAS #: 109-66-0		
2.641	2.641 (0.485)	43	3110446	200.000	209.90	0.00- 0.00	100.00(A)
2.641	2.641 (0.485)	57	429290			0.00- 0.00	13.80
2.641	2.641 (0.485)	72	192197			0.00- 0.00	6.18
44 Ethyl Ether					CAS #: 60-29-7		
2.949	2.949 (0.541)	74	546171	200.000	223.64	0.00- 0.00	100.00(TA)
2.949	2.949 (0.541)	59	1055620			0.00- 0.00	193.28
0.000	1.000 (0.000)	31	0			0.00- 0.00	0.00
53 Iodomethane					CAS #: 74-88-4		
3.450	3.450 (0.633)	142	2148043	200.000	258.31	0.00- 0.00	100.00(A)
3.450	3.450 (0.633)	127	913950			0.00- 0.00	42.55
59 Cyclopentene					CAS #: 142-29-0		
3.737	3.737 (0.686)	67	2046143	200.000	219.11	0.00- 0.00	100.00(A)

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

   59 Cyclopentene (continued)
  3.737   3.737 (0.686)    68    777613                     0.00-   0.00    38.00
  3.737   3.737 (0.686)    53    632752                     0.00-   0.00    30.92
-------------------------------------------------------------------------------
   64 Cyclopentane                                  CAS #: 287-92-3
  3.851   3.851 (0.707)    70    618656 200.000   218.99   0.00-   0.00   100.00(A)
  3.851   3.851 (0.707)    55   1234374                     0.00-   0.00   199.53
-------------------------------------------------------------------------------
   76 1-Hexene                                      CAS #: 592-41-6
  4.295   4.295 (0.788)    55   1261059 200.000   211.21   0.00-   0.00   100.00(A)
  4.295   4.295 (0.788)    41   2017466                     0.00-   0.00   159.98
  4.295   4.295 (0.788)    84    315334                     0.00-   0.00    25.01
-------------------------------------------------------------------------------
   84 1-Propanol                                    CAS #: 71-23-8
  4.761   4.761 (0.874)    59    360089 200.000   212.35   0.00-   0.00   100.00(A)
  4.761   4.761 (0.874)    42    338738                     0.00-   0.00    94.07
  4.761   4.761 (0.874)    41    224134                     0.00-   0.00    62.24
-------------------------------------------------------------------------------
   90 2,2-Dichloropropane                           CAS #: 594-20-7
  5.184   5.184 (0.951)    77   2272832 200.000   210.50   0.00-   0.00   100.00(A)
  5.184   5.184 (0.951)    79    728727                     0.00-   0.00    32.06
  5.184   5.184 (0.951)    97    464447                     0.00-   0.00    20.43
-------------------------------------------------------------------------------
   94 Ethyl Acetate                                 CAS #: 141-78-6
  5.262   5.262 (0.966)    70    237920 200.000   209.39   0.00-   0.00   100.00(A)
  5.262   5.262 (0.966)    61    446471                     0.00-   0.00   187.66
  5.262   5.262 (0.966)    45    580045                     0.00-   0.00   243.80
-------------------------------------------------------------------------------
   93 Methyl Acrylate                               CAS #: 96-33-3
  5.305   5.305 (0.974)    55   3769826 200.000   219.56   0.00-   0.00   100.00(A)
  5.305   5.305 (0.974)    85    411915                     0.00-   0.00    10.93
  5.305   5.305 (0.974)    58    295907                     0.00-   0.00     7.85
-------------------------------------------------------------------------------
*  98 Bromochloromethane                           CAS #: 74-97-5
  5.449   5.449 (1.000)   130    124749 25.0000            80.00- 120.00   100.00
  5.449   5.449 (1.000)   128     97650                    49.40- 109.40    78.28
  5.449   5.449 (1.000)    49    229900                   153.31- 213.31   184.29
-------------------------------------------------------------------------------
  107 1,1-Dichloropropene                          CAS #: 563-58-6
  5.785   5.785 (0.913)   110    715523 200.000   203.37   0.00-   0.00   100.00(A)
  5.785   5.785 (0.913)    75   1898310                     0.00-   0.00   265.30
-------------------------------------------------------------------------------
  115 Isobutanol                                   CAS #: 78-83-1
  5.921   5.921 (0.934)    39    455239 200.000   167.44   0.00-   0.00   100.00
  5.921   5.921 (0.934)    43   1706121                     0.00-   0.00   374.77
  5.921   5.921 (0.934)    41   1235086                     0.00-   0.00   271.30
-------------------------------------------------------------------------------
```

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

* 123 1,4-Difluorobenzene                          CAS #: 540-36-3
  6.337   6.337 (1.000)   114    546047 25.0000           80.00- 120.00   100.00
  6.337   6.337 (1.000)    88     76989                    0.00-  43.38    14.10
-------------------------------------------------------------------------------
  124 n-Butanol                                     CAS #: 71-36-3
  6.494   6.494 (1.025)    56   2820635 200.000   205.18   0.00-   0.00   100.00(A)
  6.494   6.494 (1.025)    41   2058220                    0.00-   0.00    72.97
  6.494   6.494 (1.025)    43   1663679                    0.00-   0.00    58.98
-------------------------------------------------------------------------------
  128 Ethyl acrylate                                CAS #: 140-88-5
  6.631   6.631 (0.755)    99    207705 200.000   203.22   0.00-   0.00   100.00(A)
  6.631   6.631 (0.755)    45    398732                    0.00-   0.00   191.97
  6.631   6.631 (0.755)    55   4205628                    0.00-   0.00  2024.81
-------------------------------------------------------------------------------
  131 2-Pentanone                                   CAS #: 107-87-9
  6.724   6.724 (0.766)    43   5385661 200.000   197.85   0.00-   0.00   100.00
  6.724   6.724 (0.766)    58    381509                    0.00-   0.00     7.08
  6.724   6.724 (0.766)    86    661812                    0.00-   0.00    12.29
-------------------------------------------------------------------------------
  134 Methyl Methacrylate                           CAS #: 80-62-6
  6.824   6.824 (0.777)    41   2840162 200.000   208.77   0.00-   0.00   100.00(A)
  6.824   6.824 (0.777)    69   1458077                    0.00-   0.00    51.34
  6.831   6.831 (0.778)   100    550932                    0.00-   0.00    19.40
-------------------------------------------------------------------------------
  137 Dibromomethane                                CAS #: 74-95-3
  6.874   6.874 (0.783)   174   2297052 200.000   200.66   0.00-   0.00   100.00(A)
  6.874   6.874 (0.783)    93   1704907                    0.00-   0.00    74.22
  6.874   6.874 (0.783)    95   1405595                    0.00-   0.00    61.19
-------------------------------------------------------------------------------
  148 Octane                                        CAS #: 111-65-9
  7.619   7.619 (1.202)    57   1578007 200.000   203.79   0.00-   0.00   100.00(A)
  7.619   7.619 (1.202)    85   1305876                    0.00-   0.00    82.75
  7.619   7.619 (1.202)    43   4139819                    0.00-   0.00   262.34
-------------------------------------------------------------------------------
  157 1,3-Dichloropropane                           CAS #: 142-28-9
  8.142   8.142 (1.285)    76   2283266 200.000   197.01   0.00-   0.00   100.00
  8.142   8.142 (1.285)    41   2128688                    0.00-   0.00    93.23
  8.142   8.142 (1.285)    78    712884                    0.00-   0.00    31.22
-------------------------------------------------------------------------------
  159 Butyl Acetate                                 CAS #: 123-86-4
  8.228   8.228 (1.298)    56    531105 200.000   189.59   0.00-   0.00   100.00
  8.228   8.228 (1.298)    73    162342                    0.00-   0.00    30.57
  8.228   8.228 (1.298)    43   1384009                    0.00-   0.00   260.59
-------------------------------------------------------------------------------
* 163 Chlorobenzene-d5                             CAS #: 3114-55-4
  8.779   8.779 (1.000)   117    509051 25.0000           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
   ==   ====== ========  ====  ======== =======  =======   ============    =====

* 163 Chlorobenzene-d5 (continued)
  8.779   8.779 (1.000)    82    256776                   21.26-  81.26    50.44
-------------------------------------------------------------------------------
  168 1,1,1,2-Tetrachloroethane                    CAS #: 630-20-6
  8.873   8.873 (1.011)   131   2490013 200.000   198.18   0.00-   0.00   100.00
  8.873   8.873 (1.011)   117   1599971                    0.00-   0.00    64.26
  8.873   8.873 (1.011)    95    861851                    0.00-   0.00    34.61
-------------------------------------------------------------------------------
  170 Nonane                                       CAS #: 111-84-2
  8.880   8.880 (1.011)    43   4029694 200.000   196.18   0.00-   0.00   100.00
  8.880   8.880 (1.011)    57   3365023                    0.00-   0.00    83.51
  8.880   8.880 (1.011)    85    991124                    0.00-   0.00    24.60
-------------------------------------------------------------------------------
  173 2-Heptanone                                  CAS #: 110-43-0
  9.388   9.388 (1.723)    58   3487551 200.000   215.81   0.00-   0.00   100.00(A)
  9.388   9.388 (1.723)    43   6162661                    0.00-   0.00   176.70
-------------------------------------------------------------------------------
  176 Cyclohexanone                                CAS #: 108-94-1
  9.739   9.739 (1.109)    55   2311162 200.000   187.39   0.00-   0.00   100.00
  9.739   9.739 (1.109)    98    745728                    0.00-   0.00    32.27
  9.739   9.739 (1.109)    42   1640178                    0.00-   0.00    70.97
-------------------------------------------------------------------------------
  179 alpha-Pinene                                 CAS #: 80-56-8
  9.546   9.546 (1.087)    93   4833114 200.000   191.77   0.00-   0.00   100.00
  9.546   9.546 (1.087)    77   1434095                    0.00-   0.00    29.67
-------------------------------------------------------------------------------
  180 Bromobenzene                                 CAS #: 108-86-1
  9.897   9.897 (1.127)   156   2930827 200.000   199.39   0.00-   0.00   100.00
  9.897   9.897 (1.127)   158   2846553                    0.00-   0.00    97.12
  9.897   9.897 (1.127)    77   3611019                    0.00-   0.00   123.21
-------------------------------------------------------------------------------
  185 1,2,3-Trichloropropane                       CAS #: 96-18-4
  9.947   9.947 (1.133)   110   1158609 200.000   192.38   0.00-   0.00   100.00
  9.947   9.947 (1.133)    75   4391598                    0.00-   0.00   379.04
  9.947   9.947 (1.133)    61   1097226                    0.00-   0.00    94.70
-------------------------------------------------------------------------------
  187 Decane                                       CAS #: 124-18-5
  9.997   9.997 (1.139)    57   3932864 200.000   184.82   0.00-   0.00   100.00
  9.997   9.997 (1.139)    71   1153800                    0.00-   0.00    29.34
  9.997   9.997 (1.139)   142    181230                    0.00-   0.00     4.61
-------------------------------------------------------------------------------
  189 2-Chlorotoluene                              CAS #: 95-49-8
 10.040  10.040 (1.144)   126   2055565 200.000   192.58   0.00-   0.00   100.00
 10.040  10.040 (1.144)    91   5434807                    0.00-   0.00   264.39
 10.040  10.040 (1.144)    65    560797                    0.00-   0.00    27.28
-------------------------------------------------------------------------------
```

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

  191 4-Chlorotoluene                                CAS #: 106-43-4
 10.140  10.140 (1.155)   126   2092989 200.000   199.84   0.00-   0.00   100.00
 10.140  10.140 (1.155)    91   5588107                    0.00-   0.00   266.99
 10.133  10.133 (1.154)    63    895100                    0.00-   0.00    42.77
-------------------------------------------------------------------------------
  195 tert-Butylbenzene                              CAS #: 98-06-6
 10.355  10.355 (1.179)   119   6391071 200.000   203.52   0.00-   0.00   100.00(A)
 10.355  10.355 (1.179)   134   1667438                    0.00-   0.00    26.09
 10.355  10.355 (1.179)    91   4153768                    0.00-   0.00    64.99
-------------------------------------------------------------------------------
  197 Pentachloroethane                              CAS #: 76-01-7
 10.413  10.413 (1.186)   167   2406700 200.000   207.37   0.00-   0.00   100.00(A)
 10.413  10.413 (1.186)   117   1979762                    0.00-   0.00    82.26
 10.413  10.413 (1.186)   169   1139504                    0.00-   0.00    47.35
-------------------------------------------------------------------------------
  199 D-Limonene                                     CAS #: 5989-27-5
 10.599  10.599 (1.207)    68   3346921 200.000   202.73   0.00-   0.00   100.00(A)
 10.606  10.606 (1.208)    93   6402696                    0.00-   0.00   191.30
 10.606  10.606 (1.208)   136    706668                    0.00-   0.00    21.11
-------------------------------------------------------------------------------
  203 sec-Butylbenzene                               CAS #: 135-98-8
 10.542  10.542 (1.201)   134   2070906 200.000   192.31   0.00-   0.00   100.00
 10.534  10.534 (1.200)   105   9538492                    0.00-   0.00   460.60
 10.534  10.534 (1.200)    91   1425083                    0.00-   0.00    68.81
-------------------------------------------------------------------------------
  207 p-Cymene                                       CAS #: 99-87-6
 10.649  10.649 (1.213)   119   8420641 200.000   202.85   0.00-   0.00   100.00(A)
 10.649  10.649 (1.213)   134   2420748                    0.00-   0.00    28.75
 10.649  10.649 (1.213)    91   2055512                    0.00-   0.00    24.41
-------------------------------------------------------------------------------
  210 1,2,3-Trimethylbenzene                         CAS #: 526-73-8
 10.771  10.771 (1.227)   120   3071696 200.000   198.29   0.00-   0.00   100.00
 10.771  10.771 (1.227)   105   7171640                    0.00-   0.00   233.47
 10.771  10.771 (1.227)    77    819511                    0.00-   0.00    26.68
-------------------------------------------------------------------------------
  213 Butylbenzene                                   CAS #: 104-51-8
 11.000  11.000 (1.253)   134   2363878 200.000   198.56   0.00-   0.00   100.00
 11.000  11.000 (1.253)    91   7918247                    0.00-   0.00   334.97
 11.000  11.000 (1.253)    92   4162200                    0.00-   0.00   176.08
-------------------------------------------------------------------------------
  215 Undecane                                       CAS #: 1120-21-4
 10.993  10.993 (1.252)    57   4987907 200.000   150.67   0.00-   0.00   100.00
 10.993  10.993 (1.252)    43   4603533                    0.00-   0.00    92.29
-------------------------------------------------------------------------------
  221 1,2-Dibromo-3-chloropropane                    CAS #: 96-12-8
 11.766  11.766 (1.340)   157   3194536 200.000   205.63   0.00-   0.00   100.00(A)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
221 1,2-Dibromo-3-chloropropane (continued)							
11.766	11.766 (1.340)	75	2255221			0.00- 0.00	70.60
11.766	11.766 (1.340)	155	2468921			0.00- 0.00	77.29
225 Dodecane					CAS #: 112-40-3		
11.910	11.910 (1.357)	57	3769384	200.000	229.22	0.00- 0.00	100.00(A)
11.910	11.910 (1.357)	43	3289784			0.00- 0.00	87.28

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p050407.d
Lab Smp Id: ICAL Level #8
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/04may16.b/p16q0407b.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 04-MAY-2016
Calibration Time: 09:37
Client Smp ID: ICAL Level #8
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	120249	72149	168349	124749	3.74
123 1,4-Difluorobenze	493488	296093	690883	546047	10.65
163 Chlorobenzene-d5	469333	281600	657066	509051	8.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/04may16.b/p050407.d

Date : 04-MAY-2016 12:19

Client ID: ICAL Level #8

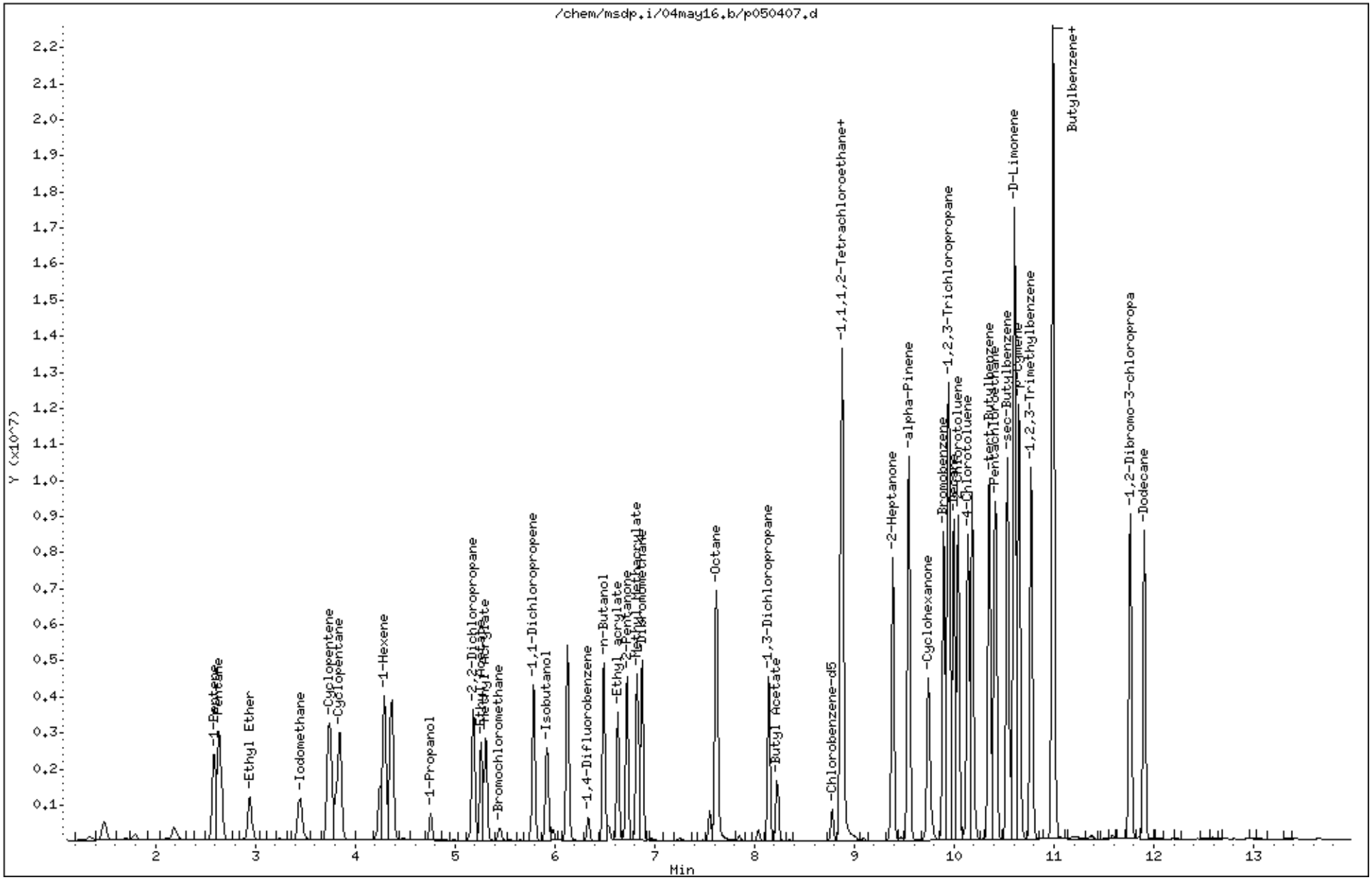
Sample Info: 200ml #2789-104

Column phase: RTX-624

Instrument: msdp.i

Operator: cb

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/07apr16.b/p040715.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 07-APR-2016 18:21
Operator : cb Inst ID: msdp.i
Smp Info : 200ml #2759-32
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/07apr16.b/p16q0407a.m
Meth Date : 07-Apr-2016 19:26 troberts Quant Type: ISTD
Cal Date : 07-APR-2016 18:21 Cal File: p040715.d
Als bottle: 2 Calibration Sample, Level: 8
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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.456	5.456 (1.000)	130	125915	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	98160			49.40- 109.40	77.96
5.456	5.456 (1.000)	49	213365			153.31- 213.31	169.45
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.344 (1.000)	114	494706	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	68686			0.00- 43.38	13.88
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	466540	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	237367			21.26- 81.26	50.88
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.097)	65	201260	25.0000	26.023	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	141427			25.58- 85.58	70.27
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.555	7.555 (1.191)	98	502574	25.0000	25.170	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	52157			0.00- 40.37	10.38

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

$ 146 Toluene-d8 (continued)
  7.555   7.555 (1.191)   100    341372                    38.69-  98.69    67.92
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.768   9.768 (1.113)   174    392792 25.0000   25.747  80.00- 120.00   100.00
  9.768   9.768 (1.113)    95    361736                    59.95- 119.95    92.09
  9.768   9.768 (1.113)   176    381023                    67.47- 127.47    97.00
-------------------------------------------------------------------------------
    9 Propylene                                     CAS #: 115-07-1
  1.493   1.493 (0.274)    41   1222798 200.000   195.85  80.00- 120.00   100.00
  1.493   1.493 (0.274)    42    820541                    35.34-  95.34    67.10
  1.493   1.493 (0.274)    39    902848                    42.39- 102.39    73.83
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.521   1.521 (0.279)    85   2798756 200.000   193.18  80.00- 120.00   100.00
  1.521   1.521 (0.279)    87    891034                     2.43-  62.43    31.84
-------------------------------------------------------------------------------
   15 Freon 114                                     CAS #: 76-14-2
  1.647   1.647 (0.302)   135   2244777 200.000   196.99  80.00- 120.00   100.00
  1.647   1.647 (0.302)   137    708389                     1.44-  61.44    31.56
-------------------------------------------------------------------------------
   17 Chloromethane                                 CAS #: 74-87-3
  1.731   1.731 (0.317)    50   1160147 200.000   166.68  80.00- 120.00   100.00
  1.731   1.731 (0.317)    52    339652                     1.49-  61.49    29.28
-------------------------------------------------------------------------------
   23 Butane                                        CAS #: 106-97-8
  1.801   1.801 (0.330)    58    329389 200.000   224.18  80.00- 120.00   100.00(A)
  1.801   1.801 (0.330)    43   2756422                   835.45- 895.45   836.83
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                CAS #: 75-01-4
  1.829   1.829 (0.335)    62   1498256 200.000   229.74  80.00- 120.00   100.00(A)
  1.829   1.829 (0.335)    64    437954                     0.00-  54.54    29.23
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                 CAS #: 106-99-0
  1.857   1.857 (0.340)    54   1393916 200.000   208.43  80.00- 120.00   100.00(A)
  1.857   1.857 (0.340)    39   1830988                   103.78- 163.78   131.36
-------------------------------------------------------------------------------
   29 Bromomethane                                  CAS #: 74-83-9
  2.211   2.211 (0.405)    94    826082 200.000   190.58  80.00- 120.00   100.00
  2.218   2.218 (0.407)    96    779268                    66.47- 126.47    94.33
-------------------------------------------------------------------------------
   30 Chloroethane                                  CAS #: 75-00-3
  2.326   2.326 (0.426)    64    567356 200.000   205.73  80.00- 120.00   100.00(A)
  2.326   2.326 (0.426)    66    163472                     0.00-  59.53    28.81
  2.326   2.326 (0.426)    49    223332                    11.61-  71.61    39.36
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	1780690	200.000	188.49	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	1061681			31.35- 91.35	59.62
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	2901146	200.000	190.96	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	1856438			35.01- 95.01	63.99
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	575621	200.000	196.75	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	112129			0.00- 51.15	19.48
2.884	2.884 (0.529)	46	220302			7.97- 67.97	38.27
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.590)	151	2226967	200.000	195.18	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	1412544			33.63- 93.63	63.43
3.221	3.221 (0.590)	101	2319519			73.82- 133.82	104.16
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.250	3.250 (0.596)	98	631124	200.000	196.94	80.00- 120.00	100.00
3.250	3.250 (0.596)	96	997256			130.56- 190.56	158.01
3.250	3.250 (0.596)	61	2180599			327.82- 387.82	345.51
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.622)	58	618347	200.000	182.53	80.00- 120.00	100.00
3.393	3.393 (0.622)	43	2289657			353.98- 413.98	370.29
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.639)	76	2744235	200.000	190.64	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.558	3.558 (0.652)	45	2596449	200.000	176.63	80.00- 120.00	100.00
3.558	3.558 (0.652)	43	542290			0.00- 50.28	20.89
3.558	3.558 (0.652)	59	79621			0.00- 33.15	3.07
58 3-Chloropropene					CAS #: 107-05-1		
3.730	3.730 (0.684)	76	443997	200.000	200.83	80.00- 120.00	100.00(A)
3.722	3.722 (0.682)	41	1972087			425.37- 485.37	444.17
66 Methylene Chloride					CAS #: 75-09-2		
3.909	3.909 (0.716)	49	1906980	200.000	196.30	80.00- 120.00	100.00
3.909	3.909 (0.716)	84	867991			14.95- 74.95	45.52
3.909	3.909 (0.716)	51	564396			0.42- 60.42	29.60
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	2886547	200.000	195.23	80.00- 120.00	100.00

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

   71 tert-Butyl alcohol (continued)
  4.016   4.016 (0.736)    41    655633                     0.00-  53.41    22.71
  4.016   4.016 (0.736)    57    324237                     0.00-  41.73    11.23
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.124   4.124 (0.756)    73   2847922 200.000   190.20  80.00- 120.00   100.00
  4.124   4.124 (0.756)    57    948926                     2.37-  62.37    33.32
  4.124   4.124 (0.756)    41    963379                     4.37-  64.37    33.83
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.152   4.152 (0.761)    98    646658 200.000   201.49  80.00- 120.00   100.00(A)
  4.145   4.145 (0.760)    61   1920974                   269.90- 329.90   297.06
  4.152   4.152 (0.761)    96   1019865                   127.45- 187.45   157.71
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.367   4.367 (0.800)    57   2220227 200.000   197.67  80.00- 120.00   100.00
  4.367   4.367 (0.800)    43   1586908                    40.99- 100.99    71.48
  4.374   4.374 (0.802)    86    241399                     0.00-  40.81    10.87
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.639   4.639 (0.850)    63   2265872 200.000   196.25  80.00- 120.00   100.00
  4.639   4.639 (0.850)    65    646979                     0.00-  58.37    28.55
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.850)    45   5353788 200.000   195.11  80.00- 120.00   100.00
  4.639   4.639 (0.850)    87    887112                     0.00-  47.04    16.57
  4.639   4.639 (0.850)    59    506046                     0.00-  39.86     9.45
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.682   4.682 (0.858)    86    275424 200.000   201.20  80.00- 120.00   100.00(A)
  4.682   4.682 (0.858)    43   5128960                  1833.17-1893.17  1862.21
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.990   4.990 (0.915)    59   4370855 200.000   195.71  80.00- 120.00   100.00
  4.997   4.997 (0.916)    87   1356055                     1.48-  61.48    31.02
  4.990   4.990 (0.915)    41    922097                     0.00-  51.50    21.10
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.219   5.219 (0.957)    98    681359 200.000   208.46  80.00- 120.00   100.00(A)
  5.219   5.219 (0.957)    96   1080942                   124.70- 184.70   158.65
  5.219   5.219 (0.957)    61   1801222                   233.87- 293.87   264.36
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.241   5.241 (0.961)    72    495128 200.000   194.91  80.00- 120.00   100.00
  5.241   5.241 (0.961)    43   3179985                   611.89- 671.89   642.26
  5.248   5.248 (0.962)    57    232376                    17.72-  77.72    46.93
-------------------------------------------------------------------------------
```

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

   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.442   5.442 (0.997)    42   1754203 200.000   199.81  80.00- 120.00   100.00
  5.442   5.442 (0.997)    71    434393                    0.00-  53.97    24.76
  5.442   5.442 (0.997)    72    451527                    0.00-  55.92    25.74
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.513   5.513 (1.010)    83   2170874 200.000   198.23  80.00- 120.00   100.00
  5.513   5.513 (1.010)    85   1394220                   35.28-  95.28    64.22
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.628   5.628 (1.032)    84   1355193 200.000   192.46  80.00- 120.00   100.00
  5.628   5.628 (1.032)    56   2307919                  138.21- 198.21   170.30
  5.628   5.628 (1.032)    41   1411229                   72.24- 132.24   104.13
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                         CAS #: 71-55-6
  5.642   5.642 (1.034)    97   2399115 200.000   188.93  80.00- 120.00   100.00
  5.642   5.642 (1.034)    99   1520536                   33.83-  93.83    63.38
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                          CAS #: 56-23-5
  5.757   5.757 (1.055)   119   2593526 200.000   194.20  80.00- 120.00   100.00
  5.757   5.757 (1.055)   117   2701662                   74.93- 134.93   104.17
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.957   5.957 (1.092)    57   7366391 200.000   194.22  80.00- 120.00   100.00
  5.957   5.957 (1.092)    56   2369909                    2.51-  62.51    32.17
  5.957   5.957 (1.092)    41   2111180                    0.00-  58.92    28.66
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.972   5.972 (0.941)    78   2936805 200.000   192.60  80.00- 120.00   100.00
  5.972   5.972 (0.941)    77    702570                    0.00-  54.04    23.92
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                        CAS #: 994-05-8
  6.043   6.043 (0.953)    87    778503 200.000   197.78  80.00- 120.00   100.00
  6.043   6.043 (0.953)    73   3166865                  379.76- 439.76   406.79
  6.043   6.043 (0.953)    55   1087509                  114.37- 174.37   139.69
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                            CAS #: 107-06-2
  6.058   6.058 (0.955)    62   1854473 200.000   203.60  80.00- 120.00   100.00(A)
  6.058   6.058 (0.955)    64    552089                    0.59-  60.59    29.77
-------------------------------------------------------------------------------
  121 Heptane                                       CAS #: 142-82-5
  6.129   6.129 (0.966)    71   1070972 200.000   187.97  80.00- 120.00   100.00
  6.129   6.129 (0.966)    43   2832048                  231.64- 291.64   264.44
  6.129   6.129 (0.966)    57   1433097                  103.28- 163.28   133.81
-------------------------------------------------------------------------------
  125 Trichloroethene                               CAS #: 79-01-6
  6.537   6.537 (1.030)    95   1453042 200.000   194.07  80.00- 120.00   100.00
```

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

  125 Trichloroethene (continued)
  6.537   6.537 (1.030)   130   1638928                    82.18- 142.18   112.79
  6.537   6.537 (1.030)    97    932275                    33.62-  93.62    64.16
-------------------------------------------------------------------------------
  127 Methylcyclohexane                            CAS #: 108-87-2
  6.645   6.645 (1.047)    83   1930195 200.000   192.73  80.00- 120.00   100.00
  6.645   6.645 (1.047)    98    911067                    16.98-  76.98    47.20
  6.645   6.645 (1.047)    55   2201506                    83.20- 143.20   114.06
-------------------------------------------------------------------------------
  132 1,2-Dichloropropane                          CAS #: 78-87-5
  6.767   6.767 (1.067)    63   1426914 200.000   195.25  80.00- 120.00   100.00
  6.767   6.767 (1.067)    62   1026850                    41.70- 101.70    71.96
  6.767   6.767 (1.067)    41   1000023                    41.13- 101.13    70.08
-------------------------------------------------------------------------------
  136 1,4-Dioxane                                  CAS #: 123-91-1
  6.853   6.853 (1.080)    88    732736 200.000   191.94  80.00- 120.00   100.00
  6.853   6.853 (1.080)    58    694952                    62.32- 122.32    94.84
  6.853   6.853 (1.080)    57    235254                     3.20-  63.20    32.11
-------------------------------------------------------------------------------
  138 Bromodichloromethane                         CAS #: 75-27-4
  6.996   6.996 (1.103)    83   2461007 200.000   201.30  80.00- 120.00   100.00(A)
  6.996   6.996 (1.103)    85   1565823                    35.75-  95.75    63.63
-------------------------------------------------------------------------------
  144 cis-1,3-Dichloropropene                      CAS #: 10061-01-5
  7.368   7.368 (1.161)    75   2045585 200.000   201.41  80.00- 120.00   100.00(A)
  7.368   7.368 (1.161)    77    645569                     0.75-  60.75    31.56
  7.368   7.368 (1.161)    39   1574923                    45.96- 105.96    76.99
-------------------------------------------------------------------------------
  145 4-Methyl-2-pentanone                         CAS #: 108-10-1
  7.483   7.483 (1.180)    58   1346003 200.000   197.02  80.00- 120.00   100.00
  7.483   7.483 (1.180)    43   3922107                   264.26- 324.26   291.39
  7.483   7.483 (1.180)    85    438499                     3.08-  63.08    32.58
-------------------------------------------------------------------------------
  147 Toluene                                      CAS #: 108-88-3
  7.612   7.612 (1.200)    91   4137906 200.000   197.18  80.00- 120.00   100.00
  7.612   7.612 (1.200)    92   2371611                    28.28-  88.28    57.31
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                    CAS #: 10061-02-6
  7.848   7.848 (0.894)    75   1900954 200.000   198.22  80.00- 120.00   100.00
  7.848   7.848 (0.894)    77    588658                     0.54-  60.54    30.97
  7.841   7.841 (0.893)    39   1387351                    41.71- 101.71    72.98
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.999   7.999 (0.911)    97   1412226 200.000   196.32  80.00- 120.00   100.00
  7.999   7.999 (0.911)    99    862325                    33.23-  93.23    61.06
  7.999   7.999 (0.911)    83   1208921                    57.40- 117.40    85.60
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.917)	166	2543723	200.000	198.84	80.00- 120.00	100.00
8.049	8.049 (0.917)	129	1627794			34.91- 94.91	63.99
8.049	8.049 (0.917)	131	1614345			34.35- 94.35	63.46
158 2-Hexanone					CAS #: 591-78-6		
8.171	8.171 (0.931)	58	1866284	200.000	196.29	80.00- 120.00	100.00
8.171	8.171 (0.931)	43	3862336			175.82- 235.82	206.95
8.171	8.171 (0.931)	100	292125			0.00- 45.85	15.65
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.947)	129	3055635	200.000	200.66	80.00- 120.00	100.00(A)
8.314	8.314 (0.947)	127	2389547			48.31- 108.31	78.20
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.960)	107	2360670	200.000	202.14	80.00- 120.00	100.00(A)
8.428	8.428 (0.960)	109	2218490			65.63- 125.63	93.98
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.003)	112	3622228	200.000	195.59	80.00- 120.00	100.00
8.808	8.808 (1.003)	114	1140166			1.89- 61.89	31.48
8.808	8.808 (1.003)	77	1834919			22.59- 82.59	50.66
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	1811133	200.000	192.27	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	5593515			277.26- 337.26	308.84
169 m,p-Xylene					CAS #: 108-38-3		
8.959	8.959 (1.020)	106	2254699	200.000	194.07	80.00- 120.00	100.00
8.959	8.959 (1.020)	91	4494459			167.63- 227.63	199.34
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.059)	106	2157721	200.000	200.14	80.00- 120.00	100.00(A)
9.295	9.295 (1.059)	91	4494442			178.91- 238.91	208.30
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.061)	104	3591758	200.000	206.68	80.00- 120.00	100.00(A)
9.317	9.317 (1.061)	78	1677767			15.94- 75.94	46.71
174 Bromoform					CAS #: 75-25-2		
9.510	9.510 (1.083)	173	3871472	200.000	209.02	80.00- 120.00	100.00(A)
9.510	9.510 (1.083)	171	1994340			21.13- 81.13	51.51
175 Cumene					CAS #: 98-82-8		
9.589	9.589 (1.092)	105	6794891	200.000	198.00	80.00- 120.00	100.00
9.589	9.589 (1.092)	120	1866823			0.00- 57.59	27.47

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

  175 Cumene (continued)
  9.582   9.582 (1.091)    51    922630                     0.00-  43.20    13.58
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.890   9.890 (1.126)    83   3290559 200.000   189.49  80.00- 120.00   100.00
  9.890   9.890 (1.126)    85   2135815                   35.30-  95.30    64.91
-------------------------------------------------------------------------------
  182 Propylbenzene                                CAS #: 103-65-1
  9.933   9.933 (1.131)    91   7936284 200.000   189.49  80.00- 120.00   100.00
  9.933   9.933 (1.131)   120   1936515                    0.00-  54.24    24.40
  9.933   9.933 (1.131)   105    290287                    0.00-  33.65     3.66
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                               CAS #: 622-96-8
 10.026  10.026 (1.142)   120   2144064 200.000   192.51  80.00- 120.00   100.00
 10.026  10.026 (1.142)   105   6876193                  283.78- 343.78   320.71
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
 10.083  10.083 (1.148)   120   2924494 200.000   195.64  80.00- 120.00   100.00
 10.083  10.083 (1.148)   105   5968434                  172.79- 232.79   204.08
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
 10.413  10.413 (1.186)   120   2675959 200.000   197.78  80.00- 120.00   100.00
 10.413  10.413 (1.186)   105   5742773                  186.10- 246.10   214.61
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                          CAS #: 541-73-1
 10.692  10.692 (1.218)   146   4535550 200.000   194.08  80.00- 120.00   100.00
 10.692  10.692 (1.218)   148   2881565                   34.63-  94.63    63.53
 10.692  10.692 (1.218)   111   1629117                    7.17-  67.17    35.92
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                          CAS #: 106-46-7
 10.778  10.778 (1.228)   146   4582052 200.000   191.94  80.00- 120.00   100.00
 10.778  10.778 (1.228)   148   2910596                   33.55-  93.55    63.52
 10.778  10.778 (1.228)   111   1590624                    4.50-  64.50    34.71
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                          CAS #: 100-44-7
 10.893  10.893 (1.241)    91   5842675 200.000   192.39  80.00- 120.00   100.00
 10.893  10.893 (1.241)   126   1357401                    0.00-  52.80    23.23
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                          CAS #: 95-50-1
 11.107  11.107 (1.265)   146   4396610 200.000   196.20  80.00- 120.00   100.00
 11.107  11.107 (1.265)   148   2767382                   33.56-  93.56    62.94
 11.107  11.107 (1.265)   111   1625081                    7.11-  67.11    36.96
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                       CAS #: 120-82-1
 12.519  12.519 (1.426)   180   4965698 200.000   206.32  80.00- 120.00   100.00(A)
 12.519  12.519 (1.426)   182   4721916                   66.05- 126.05    95.09
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3	
12.612	12.612 (1.436)	225	4466091	200.000	206.60	80.00- 120.00	100.00(A)
12.612	12.612 (1.436)	223	2813533			31.76- 91.76	63.00
228 Naphthalene						CAS #: 91-20-3	
12.784	12.784 (1.456)	128	763394	20.0000	20.450	80.00- 120.00	100.00(A)
12.784	12.784 (1.456)	127	99918			0.00- 43.45	13.09

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: msdp.i
Lab File ID: p040715.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdp.i/07apr16.b/p16q0407a.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 07-APR-2016
Calibration Time: 17:30
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118758	71255	166261	125915	6.03
123 1,4-Difluorobenze	479982	287989	671975	494706	3.07
163 Chlorobenzene-d5	441761	265057	618465	466540	5.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	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/msdp.i/07apr16.b/p040715.d

Date : 07-APR-2016 18:21

Client ID: Level 8

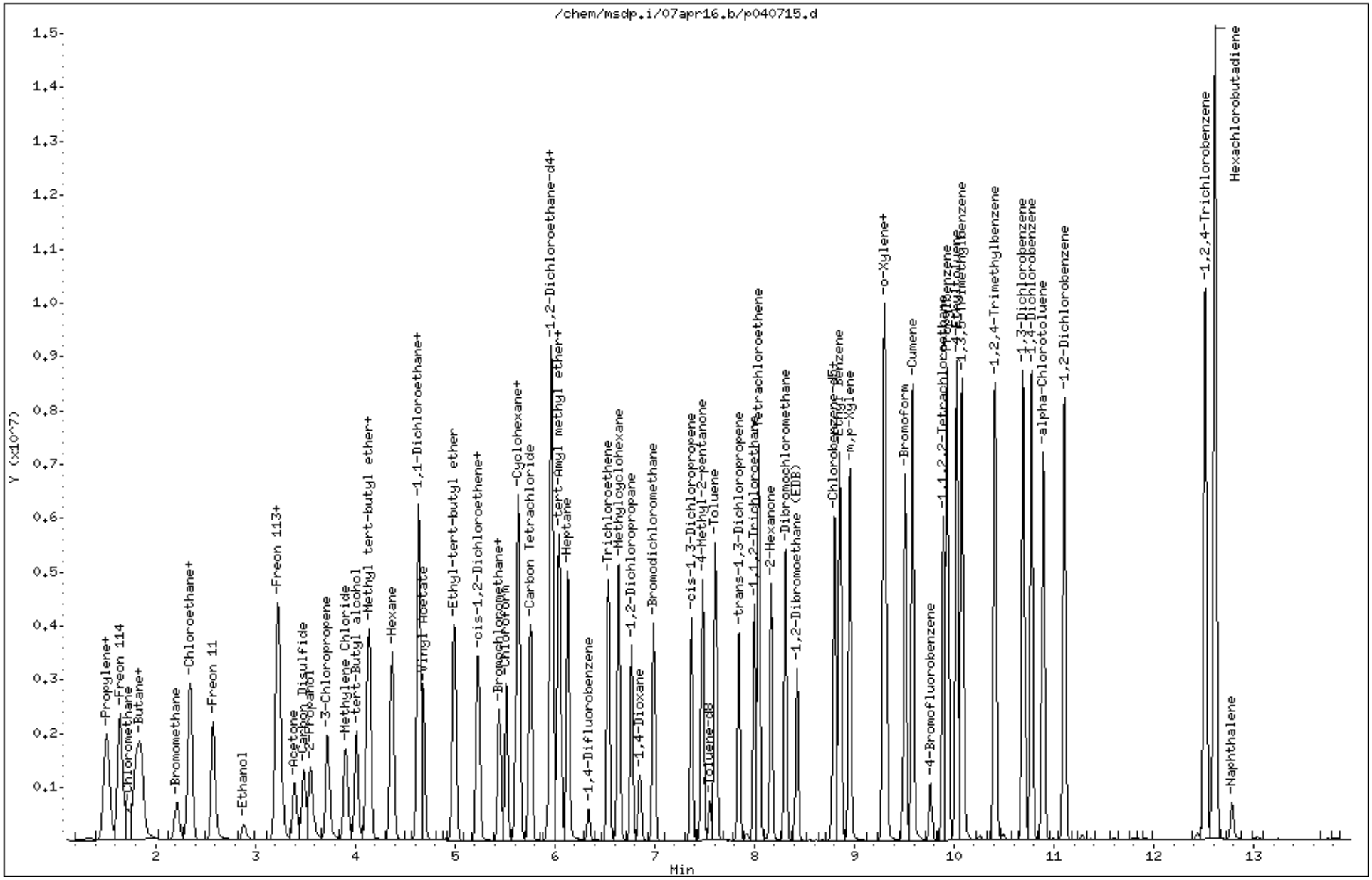
Sample Info: 200ml #2759-32

Column phase: RTX-624

Instrument: msdp.i

Operator: cb

Column diameter: 0.25



MSD-P TO15 0.5ppbv Compounds

Report Date : 20-Dec-2015 14:02

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 20mL #2759-140

5.0ppbv → 0.5ppbv

MDL Expires: 12/17/2016

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	p121714	p121715	p121716	p121717	p121718	p121719	p121720	p121721
INJ.DATE:	17-DEC-2015	17-DEC-2015	17-DEC-2015	17-DEC-2015	17-DEC-2015	17-DEC-2015	17-DEC-2015	17-DEC-2015
INJ.TIME:	19:18	19:42	20:05	20:28	20:51	21:15	21:38	22:01

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	499.14	445.89	460.32	520.00	468.75	515.54	412.59	473.72	474.49	36.35	108.97
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	503.28	488.73	559.23	521.99	464.29	539.66	495.27	489.57	507.75	30.77	92.25
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Reviewer 1 _____ Date: 12/20/15
Reviewer 2 _____ Date: 12/22/15

MDL Verification:

$\bar{X}$ = 109 ppbv

$2\bar{X}$ = 220 ppbv = 0.2 ppbv

File: P122107

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Vinyl Chloride	520.32	423.56	481.23	512.26	488.18	526.13	494.34	539.74	498.22	36.19	108.50
26 1,3-Butadiene	517.46	616.46	486.29	560.41	565.77	685.60	645.43	600.27	584.71	65.76	197.16
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	449.83	476.76	461.18	449.87	471.80	480.79	532.65	449.24	471.51	27.76	83.21
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Freon 113	525.79	513.99	500.54	515.22	560.29	544.41	556.84	528.48	530.70	21.40	64.15
50 1,1-Dichloroethene	402.54	520.51	526.12	575.05	428.04	606.66	424.25	466.46	493.70	74.96	224.74
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
64 Cyclopentane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
65 1-Chloropropane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
66 Methylene Chloride	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
67 2-Methyl-1-pentene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
68 2,4-Dimethylpentane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
69 2,3-Dimethylpentane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
70 tert-Butyl chloride	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
71 tert-Butyl alcohol	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
72 Methyl tert-butyl ethe	541.65	541.46	507.10	526.52	517.04	517.72	515.78	528.18	524.43	12.42	37.24
73 trans-1,2-Dichloroethe	466.80	449.53	447.28	393.05	412.15	444.25	415.08	444.05	434.02	24.53	73.54
74 Acrylonitrile	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
75 trans-2-Hexene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
76 1-Hexene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
77 cis-2-Hexene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
78 Hexane	471.66	502.03	478.22	474.46	471.86	451.99	507.98	497.84	482.01	18.93	56.76
79 Methylcyclopentane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
80 sec-Butyl chloride	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
81 2,3,4-Trimethylpentane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
82 1,1-Dichloroethane	480.79	416.18	430.57	452.86	465.39	438.35	431.17	418.63	441.75	22.82	68.40
83 Isopropyl ether	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
84 1-Propanol	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
85 Chloroprene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
86 Vinyl Acetate	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	452.94	428.71	501.27	449.19	362.07	475.18	436.23	434.29	442.48	40.43	121.21
92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 98 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
99 Tetrahydrofuran	472.92	455.34	450.82	449.42	355.84	509.86	469.25	554.53	464.75	56.77	170.21
100 Chloroform	451.07	440.25	508.39	439.49	426.70	471.19	414.27	456.81	451.02	29.09	87.20
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Cyclohexane	450.75	512.33	517.69	485.79	523.94	482.75	512.66	520.70	500.83	25.49	76.41
103 1,1,1-Trichloroethane	524.82	463.72	517.86	473.51	550.66	512.18	465.76	478.13	498.33	32.29	96.79
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Carbon Tetrachloride	488.59	498.14	600.38	510.39	486.79	512.93	470.67	521.87	511.22	39.62	118.79
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	486.39	503.94	486.56	459.52	513.71	467.21	492.12	528.44	492.23	22.90	68.66
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Benzene	493.02	481.88	476.49	481.46	501.12	547.24	459.54	561.63	500.30	35.74	107.14
$ 117 1,2-Dichloroethane-d4	22461.52	23477.54	23636.63	23207.95	22615.32	22547.68	23752.37	23370.70	23133.71	618.18	1553.50
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,2-Dichloroethane	470.08	463.12	439.24	453.89	471.28	417.68	423.36	502.72	455.17	27.98	83.87
121 Heptane	617.30	664.84	483.97	575.66	482.68	659.47	623.90	650.41	594.78	74.41	223.07
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 123 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	468.70	456.76	450.30	453.10	520.41	380.93	387.51	476.89	449.33	45.92	137.66
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 1,2-Dichloropropane	487.64	424.37	469.71	455.57	457.38	507.67	531.17	425.24	469.84	37.65	112.89
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 Bromodichloromethane	463.72	450.48	414.18	493.62	454.67	458.55	503.03	487.57	465.73	28.57	85.66
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropen	482.67	446.69	418.89	459.47	504.02	481.68	477.57	445.64	464.58	27.09	81.21
145 4-Methyl-2-pentanone	450.87	551.14	544.77	467.13	600.44	521.54	482.99	489.37	513.53	50.15	150.34
$ 146 Toluene-d8	24896.44	24357.04	24572.86	24400.71	24521.66	24285.95	25164.33	24784.39	24622.92	302.46	906.78
147 Toluene	503.87	545.64	560.15	522.68	541.16	545.22	505.69	535.87	532.53	20.07	60.18
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloroprop	500.65	501.37	508.88	523.97	577.91	482.70	494.20	502.61	511.54	29.28	87.78
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	520.38	543.95	393.98	528.35	540.93	546.69	572.94	539.50	523.34	54.47	163.30
156 Tetrachloroethene	480.00	492.50	506.57	502.21	563.79	555.18	513.03	516.08	516.17	29.17	87.44
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	472.73	447.15	460.32	480.62	526.37	515.93	471.27	482.60	482.12	26.75	80.18
161 1,2-Dibromoethane (EDB	426.82	499.07	519.42	491.40	512.16	464.29	462.44	451.93	478.44	32.15	96.38
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 163 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	489.08	493.49	481.81	537.38	518.60	517.68	520.99	532.77	511.47	20.73	62.16
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	522.12	511.55	496.68	472.15	567.17	437.72	597.14	530.25	511.85	42.86	128.49
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	483.70	513.44	465.95	488.20	528.81	473.68	475.94	557.10	498.36	31.81	95.38
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	568.16	553.89	598.32	492.92	543.82	533.85	495.51	558.72	543.15	35.67	106.94
172 Styrene	505.82	546.37	537.13	475.70	527.15	528.16	491.53	528.49	517.55	24.21	72.59
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Bromoform	482.67	479.98	531.07	497.28	517.73	479.57	527.06	477.85	499.15	22.75	68.20
175 Cumene	522.97	516.67	509.01	553.06	549.91	514.64	465.52	523.46	519.41	27.08	81.20
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 177 4-Bromofluorobenzene	23959.26	24951.05	24364.59	24724.06	25030.45	24698.77	24955.63	25264.47	24743.53	414.53	1242.75
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	533.70	562.63	463.41	508.42	539.46	559.76	501.35	580.63	531.17	38.41	115.15
182 Propylbenzene	555.32	549.90	538.96	523.52	573.36	575.23	526.26	574.99	552.19	21.32	63.93

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Ethyltoluene	579.43	535.28	534.82	462.93	577.10	562.22	523.30	492.92	533.50	40.66	121.89
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	623.63	647.48	395.93	888.91	589.50	549.13	476.41	534.76	550.72	82.27	246.65
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	636.24	714.19	657.76	617.80	590.87	668.85	574.17	527.49	623.42	59.00	176.87
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3-Dichlorobenzene	578.98	567.45	533.45	605.76	570.26	584.81	526.59	523.20	561.31	30.22	90.60
209 1,4-Dichlorobenzene	523.85	599.90	564.44	602.97	567.75	568.51	606.26	514.69	568.55	34.86	104.51
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 alpha-Chlorotoluene	618.02	493.68	558.91	530.37	639.45	563.06	617.88	586.74	576.01	49.25	147.66
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 1,2-Dichlorobenzene	570.96	562.57	525.94	582.36	589.06	590.82	591.92	561.14	571.85	22.29	66.83
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
227 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
228 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (To	919.73	878.24	948.55	842.23	774.21	919.43	851.31	878.34	876.51	55.01	164.91
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	1051.86	1067.34	1064.27	981.12	1072.64	1007.53	971.45	1115.82	1041.50	49.99	149.87
M 240 3 and 4-Ethyltoluene	579.43	535.28	534.82	462.93	577.10	562.22	523.30	492.92	533.50	40.66	121.89
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference Minerals	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

MSD-P TO15 2.0ppbv Compounds

Report Date : 20-Dec-2015 14:03

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 80mL #2759-140
5.0ppbv → 2.0ppbv

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

MDL Expires: 12/17/2016

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	p121722	p121723	p121724	p121725	p121726	p121727	p121728	p121729
INJ.DATE:	17-DEC-2015	17-DEC-2015	17-DEC-2015	17-DEC-2015	18-DEC-2015	18-DEC-2015	18-DEC-2015	18-DEC-2015
INJ.TIME:	22:27	22:53	23:19	23:45	00:11	00:37	01:02	01:28

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	2467.88	2111.71	2162.18	2667.70	2405.72	2520.93	2323.79	2711.16	2421.33	216.96	650.43
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloromethane	1843.90	2061.58	2276.83	1830.72	1599.69	1719.05	1240.07	1498.19	1758.75	324.33	972.35

Reviewer 1 _____ Date: 12/20/15
Reviewer 2 _____ Date: 12/22/15

MDL Verification: File: P122108

$\bar{X}$ = 460 ppbv
$2\bar{X}$ = 920 ppbv = 0.9 ppbv

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Butane	2547.99	2505.71	2973.23	2585.08	2427.62	3028.45	2345.75	2829.31	2655.39	255.53	766.09
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	2101.35	3029.56	2971.22	2139.68	2097.41	2099.82	1984.00	2144.00	2320.98	422.54	1266.78
30 Chloroethane	2513.20	2367.25	2347.17	2497.20	2163.93	2404.85	2153.21	2360.91	2350.97	133.67	400.75
31 Isopentane	2546.83	2413.90	2179.98	2410.16	2295.33	2520.74	2544.06	2586.95	2437.24	141.62	424.59
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	2364.17	2285.43	2504.11	2313.09	2226.01	2475.94	2303.24	2053.53	2315.69	142.12	426.06
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Acetone	3078.59	2757.38	2460.85	2905.03	2517.68	3031.68	2725.98	2614.01	2761.40	228.98	686.47
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Carbon Disulfide	2656.93	2453.43	2365.79	2496.95	2434.49	2584.86	2305.04	2553.61	2481.39	116.14	348.19
57 2-Propanol	2433.43	2335.04	2515.14	2585.89	2444.00	2450.60	2330.51	2640.33	2466.87	109.84	329.31
58 3-Chloropropene	2498.07	2281.55	2507.22	2290.60	2372.79	2611.41	2337.58	2286.04	2398.16	125.02	374.80
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Methylene Chloride	2478.91	2344.14	2475.43	2604.54	2424.73	2745.39	2349.89	2444.37	2483.42	133.94	401.55
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 tert-Butyl alcohol	2331.39	2361.06	2298.48	2226.97	2205.46	2476.97	2307.70	2364.76	2321.59	85.21	255.47
72 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 Isopropyl ether	2226.04	2243.14	2315.76	2418.68	2331.86	2341.67	2292.77	2345.00	2314.36	61.20	183.47
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	2677.98	2430.75	2961.05	2848.67	2256.22	2763.93	1981.42	2567.90	2560.99	325.90	977.05

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl-tert-butyl ether	2276.37	2194.65	2152.16	2263.65	2254.23	2234.23	2178.69	2307.83	2232.73	53.22	159.56
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 2-Butanone	2356.81	2151.67	2243.20	2470.85	2186.03	2187.36	2252.86	2705.02	2319.22	187.70	562.73
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 98 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
99 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
111 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 117 1,2-Dichloroethane-d4	24045.39	23922.00	23317.92	23899.26	23612.87	24203.36	22580.64	24268.81	23731.28	558.56	1674.56
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	2162.72	2385.74	2133.51	2231.69	2308.13	2176.87	2149.94	2254.76	2225.41	87.73	263.02
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 123 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	2172.81	2233.39	2249.19	3113.59	2092.49	2258.16	2254.89	2091.20	2183.22	74.91	224.57
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 1,4-Dioxane	2312.11	2341.61	2084.38	2184.63	2121.91	2084.02	2341.51	2389.57	2232.44	127.26	381.52
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 146 Toluene-d8	25067.52	24504.48	24867.76	24523.80	24458.39	24374.30	24899.18	24570.71	24659.50	249.44	747.81
147 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	2048.85	2077.04	2120.67	2152.23	2196.11	2361.00	2149.19	2129.85	2154.37	95.11	285.14

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 163 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 177 4-Bromofluorobenzene	24703.23	24292.47	24435.92	24546.08	24042.00	24413.66	24326.19	23022.35	24222.85	521.94	1564.79
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
183 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 1,2,4,5-Tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,2,4-Trichlorobenzene	2553.39	2552.44	2556.96	2559.02	2691.05	2729.19	2691.89	2379.47	2589.18	112.81	338.21
227 Hexachlorobutadiene	2541.15	2534.78	2511.72	2596.27	2561.28	2760.62	2657.45	2416.38	2572.46	102.66	307.77
228 Naphthalene	257.04	268.85	225.35	259.02	256.05	273.36	270.79	254.30	258.09	15.13	45.36
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdp.i/17dec15.b/p15q1217a.m
Batch File: /chem/msdp.i/17dec15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Client Sample ID: CCV

Lab ID#: 1607235E-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071902**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 11:28 AM**

Compound	%Recovery
Freon 12	99
Freon 114	95
Chloromethane	129
Vinyl Chloride	118
1,3-Butadiene	119
Bromomethane	100
Chloroethane	110
Freon 11	96
Ethanol	119
Freon 113	89
1,1-Dichloroethene	98
Acetone	129
2-Propanol	100
Carbon Disulfide	102
3-Chloropropene	103
Methylene Chloride	119
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	101
Hexane	108
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	105
Tetrahydrofuran	117
Chloroform	103
1,1,1-Trichloroethane	94
Cyclohexane	95
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	106
Benzene	100
1,2-Dichloroethane	108
Heptane	95
Trichloroethene	96
1,2-Dichloropropane	106
1,4-Dioxane	90
Bromodichloromethane	99
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	85
Toluene	96
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	98
Tetrachloroethene	90
2-Hexanone	71

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Client Sample ID: CCV

Lab ID#: 1607235E-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 11:28 AM**	

Compound	**%Recovery**
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	96
Chlorobenzene	94
Ethyl Benzene	91
m,p-Xylene	88
o-Xylene	94
Styrene	86
Bromoform	88
Cumene	92
1,1,2,2-Tetrachloroethane	99
Propylbenzene	91
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	84
alpha-Chlorotoluene	76
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	75
Hexachlorobutadiene	73
Naphthalene	73

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	93	70-130

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 19-JUL-2016 11:28
Lab File ID: p071902.d Init. Cal. Date(s): 07-APR-2016 12-JUL-2016
Analysis Type: AIR Init. Cal. Times: 15:49 14:26
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/19jul16.b/p16q0407e.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 117 1,2-Dichloroethane-d4	1.53552	1.63511	0.010	-6.48534	30.00000	Averaged
$ 146 Toluene-d8	1.00905	1.04230	0.010	-3.29563	30.00000	Averaged
$ 177 4-Bromofluorobenzene	0.81749	0.76312	0.010	6.65150	30.00000	Averaged
9 Propylene	1.23964	1.48266	0.010	-19.60445	30.00000	Averaged
11 Freon 12	2.87652	2.83945	0.010	1.28880	30.00000	Averaged
15 Freon 114	2.26252	2.14915	0.010	5.01088	30.00000	Averaged
17 Chloromethane	1.38191	1.77913	0.010	-28.74425	30.00000	Averaged
23 Butane	0.29172	0.29604	0.010	-1.47966	30.00000	Averaged
25 Vinyl Chloride	1.29482	1.53097	0.010	-18.23814	30.00000	Averaged
26 1,3-Butadiene	1.32784	1.58391	0.010	-19.28423	30.00000	Averaged
29 Bromomethane	0.86063	0.86373	0.010	-0.36031	30.00000	Averaged
30 Chloroethane	0.54756	0.60427	0.010	-10.35837	30.00000	Averaged
31 Isopentane	1.87570	2.12123	0.010	-13.09017	40.00000	Averaged
35 Freon 11	3.01633	2.89906	0.010	3.88772	30.00000	Averaged
42 Ethanol	0.58087	0.69162	0.010	-19.06617	30.00000	Averaged
49 Freon 113	2.26542	2.02561	0.010	10.58562	30.00000	Averaged
50 1,1-Dichloroethene	0.63628	0.62101	0.010	2.40082	30.00000	Averaged
52 Acetone	0.67262	0.87053	0.010	-29.42378	30.00000	Averaged
56 Carbon Disulfide	2.85808	2.91658	0.010	-2.04697	30.00000	Averaged
57 2-Propanol	2.91862	2.92396	0.010	-0.18296	30.00000	Averaged
58 3-Chloropropene	0.43894	0.45158	0.010	-2.87917	30.00000	Averaged
66 Methylene Chloride	1.92880	2.29177	0.010	-18.81882	30.00000	Averaged
71 tert-Butyl alcohol	2.93561	2.83057	0.010	3.57832	30.00000	Averaged
72 Methyl tert-butyl ether	2.97287	2.80854	0.010	5.52743	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.63720	0.64668	0.010	-1.48698	30.00000	Averaged
78 Hexane	2.23012	2.40503	0.010	-7.84319	30.00000	Averaged
82 1,1-Dichloroethane	2.29237	2.46836	0.010	-7.67716	30.00000	Averaged
83 Isopropyl ether	5.44800	6.32955	0.010	-16.18122	30.00000	Averaged
86 Vinyl Acetate	0.27179	0.24627	0.010	9.39048	40.00000	Averaged
88 Ethyl-tert-butyl ether	4.43414	4.48424	0.010	-1.12986	40.00000	Averaged
91 cis-1,2-Dichloroethene	0.64895	0.68236	0.010	-5.14876	30.00000	Averaged
92 2-Butanone	0.50437	0.52114	0.010	-3.32513	30.00000	Averaged
99 Tetrahydrofuran	1.74313	2.03480	0.010	-16.73238	30.00000	Averaged
100 Chloroform	2.17436	2.24640	0.010	-3.31353	30.00000	Averaged
102 Cyclohexane	1.39804	1.33223	0.010	4.70727	30.00000	Averaged
103 1,1,1-Trichloroethane	2.52127	2.37306	0.010	5.87836	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 19-JUL-2016 11:28
Lab File ID: p071902.d Init. Cal. Date(s): 07-APR-2016 12-JUL-2016
Analysis Type: AIR Init. Cal. Times: 15:49 14:26
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/19jul16.b/p16q0407e.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
106 Carbon Tetrachloride	2.65162	2.14324	0.010	19.17224	30.00000	Averaged
113 2,2,4-Trimethylpentane	7.53045	7.97512	0.010	-5.90505	30.00000	Averaged
116 Benzene	0.77057	0.77015	0.010	0.05381	30.00000	Averaged
119 tert-Amyl methyl ether	0.19891	0.18738	0.010	5.79785	30.00000	Averaged
120 1,2-Dichloroethane	0.46030	0.49628	0.010	-7.81657	30.00000	Averaged
121 Heptane	0.28793	0.27429	0.010	4.73723	30.00000	Averaged
125 Trichloroethene	0.37836	0.36234	0.010	4.23482	30.00000	Averaged
127 Methylcyclohexane	0.50610	0.48150	0.010	4.86036	30.00000	Averaged
132 1,2-Dichloropropane	0.36931	0.39285	0.010	-6.37327	30.00000	Averaged
136 1,4-Dioxane	0.19292	0.17333	0.010	10.15426	30.00000	Averaged
138 Bromodichloromethane	0.61781	0.61411	0.010	0.59956	30.00000	Averaged
144 cis-1,3-Dichloropropene	0.51324	0.49955	0.010	2.66877	30.00000	Averaged
145 4-Methyl-2-pentanone	0.34524	0.29233	0.010	15.32531	30.00000	Averaged
147 Toluene	1.06050	1.01713	0.010	4.09025	30.00000	Averaged
150 trans-1,3-Dichloropropene	0.51390	0.49728	0.010	3.23324	30.00000	Averaged
155 1,1,2-Trichloroethane	0.38547	0.37779	0.010	1.99297	30.00000	Averaged
156 Tetrachloroethene	0.68553	0.61630	0.010	10.09924	30.00000	Averaged
158 2-Hexanone	0.50948	0.35984	0.010	29.37070	30.00000	Averaged
160 Dibromochloromethane	0.81598	0.73749	0.010	9.61945	30.00000	Averaged
161 1,2-Dibromoethane (EDB)	0.62579	0.60061	0.010	4.02360	30.00000	Averaged
165 Chlorobenzene	0.99239	0.92854	0.010	6.43410	30.00000	Averaged
167 Ethyl Benzene	0.50476	0.45871	0.010	9.12260	30.00000	Averaged
169 m,p-Xylene	0.62255	0.55120	0.010	11.46057	30.00000	Averaged
171 o-Xylene	0.57770	0.54059	0.010	6.42314	30.00000	Averaged
172 Styrene	0.93122	0.79888	0.010	14.21146	30.00000	Averaged
174 Bromoform	0.99252	0.87535	0.010	11.80539	30.00000	Averaged
175 Cumene	1.83891	1.69927	0.010	7.59363	30.00000	Averaged
181 1,1,2,2-Tetrachloroethane	0.93054	0.91842	0.010	1.30243	30.00000	Averaged
182 Propylbenzene	2.24431	2.03833	0.010	9.17781	30.00000	Averaged
188 4-Ethyltoluene	0.59681	0.54772	0.010	8.22483	30.00000	Averaged
190 1,3,5-Trimethylbenzene	0.80100	0.68410	0.010	14.59490	30.00000	Averaged
196 1,2,4-Trimethylbenzene	0.72500	0.62197	0.010	14.21038	30.00000	Averaged
208 1,3-Dichlorobenzene	1.25224	1.07807	0.010	13.90882	30.00000	Averaged
209 1,4-Dichlorobenzene	1.27925	1.07959	0.010	15.60751	30.00000	Averaged
212 alpha-Chlorotoluene	1.62734	1.24306	0.010	23.61390	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 19-JUL-2016 11:28
Lab File ID: p071902.d Init. Cal. Date(s): 07-APR-2016 12-JUL-2016
Analysis Type: AIR Init. Cal. Times: 15:49 14:26
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdp.i/19jul16.b/p16q0407e.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
214 1,2-Dichlorobenzene	1.20083	1.02615	0.010	14.54609	30.00000	Averaged
226 1,2,4-Trichlorobenzene	1.28968	0.96641	0.010	25.06646	30.00000	Averaged
227 Hexachlorobutadiene	1.15837	0.84730	0.010	26.85343	30.00000	Averaged
228 Naphthalene	2.00034	1.45410	0.010	27.30751	40.00000	Averaged

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071902.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 19-JUL-2016 11:28
Operator : jg Inst ID: msdp.i
Smp Info : 100mL #2789-84A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 22-Jul-2016 13:56 snguyen Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 13 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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.441	5.441 (1.000)	130	95264	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	72188			49.40- 109.40	75.78
5.434	5.434 (1.000)	49	219970			153.31- 213.31	230.91
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.330	6.330 (1.000)	114	379135	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	53685			0.00- 43.38	14.16
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	348612	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	187390			21.26- 81.26	53.75
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.099)	65	155767	25.0000	26.621	80.00- 120.00	100.00
5.971	5.971 (1.097)	67	88492			25.58- 85.58	56.81
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.192)	98	395174	25.0000	25.824	80.00- 120.00	100.00
7.547	7.547 (1.192)	70	43181			0.00- 40.37	10.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8 (continued)							
7.547	7.547 (1.192)	100	263996			38.69- 98.69	66.81
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.754	9.754 (1.112)	174	266032	25.0000	23.337	80.00- 120.00	100.00
9.754	9.754 (1.112)	95	264446			59.95- 119.95	99.40
9.754	9.754 (1.112)	176	255458			67.47- 127.47	96.03
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.272)	41	282488	50.0000	59.802	80.00- 120.00	100.00
1.479	1.479 (0.272)	42	190560			35.34- 95.34	67.46
1.479	1.479 (0.272)	39	204442			42.39- 102.39	72.37
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.277)	85	540995	50.0000	49.356	80.00- 120.00	100.00
1.507	1.507 (0.277)	87	173021			2.43- 62.43	31.98
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.300)	135	409473	50.0000	47.494	80.00- 120.00	100.00
1.633	1.633 (0.300)	137	127846			1.44- 61.44	31.22
17 Chloromethane					CAS #: 74-87-3		
1.716	1.716 (0.315)	50	338974	50.0000	64.372	80.00- 120.00	100.00
1.716	1.716 (0.315)	52	100863			1.49- 61.49	29.76
23 Butane					CAS #: 106-97-8		
1.786	1.786 (0.328)	58	56404	50.0000	50.740	80.00- 120.00	100.00
1.786	1.786 (0.328)	43	533257			835.45- 895.45	945.42
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.336)	62	291693	50.0000	59.119	80.00- 120.00	100.00
1.828	1.828 (0.336)	64	73556			0.00- 54.54	25.22
26 1,3-Butadiene					CAS #: 106-99-0		
1.842	1.842 (0.339)	54	301779	50.0000	59.642	80.00- 120.00	100.00
1.842	1.842 (0.339)	39	413556			103.78- 163.78	137.04
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.405)	94	164564	50.0000	50.180	80.00- 120.00	100.00
2.204	2.204 (0.405)	96	149366			66.47- 126.47	90.76
30 Chloroethane					CAS #: 75-00-3		
2.311	2.311 (0.425)	64	115131	50.0000	55.179	80.00- 120.00	100.00
2.311	2.311 (0.425)	66	32991			0.00- 59.53	28.66
2.311	2.311 (0.425)	49	50355			11.61- 71.61	43.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.430)	43	404154	50.0000	56.545	80.00- 120.00	100.00
2.340	2.340 (0.430)	57	221950			31.35- 91.35	54.92
35 Freon 11					CAS #: 75-69-4		
2.562	2.562 (0.471)	101	552353	50.0000	48.056	80.00- 120.00	100.00
2.562	2.562 (0.471)	103	351664			35.01- 95.01	63.67
42 Ethanol					CAS #: 64-17-5		
2.870	2.870 (0.527)	45	131773	50.0000	59.533	80.00- 120.00	100.00
2.870	2.870 (0.527)	43	26999			0.00- 51.15	20.49
2.870	2.870 (0.527)	46	50580			7.97- 67.97	38.38
49 Freon 113					CAS #: 76-13-1		
3.207	3.207 (0.589)	151	385935	50.0000	44.707	80.00- 120.00	100.00
3.207	3.207 (0.589)	153	249752			33.63- 93.63	64.71
3.207	3.207 (0.589)	101	443803			73.82- 133.82	114.99
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.235	3.235 (0.595)	98	118319	50.0000	48.800	80.00- 120.00	100.00
3.235	3.235 (0.595)	96	181999			130.56- 190.56	153.82
3.228	3.228 (0.593)	61	445128			327.82- 387.82	376.21
52 Acetone					CAS #: 67-64-1		
3.371	3.371 (0.620)	58	165860	50.0000	64.712	80.00- 120.00	100.00
3.371	3.371 (0.620)	43	652166			353.98- 413.98	393.20
56 Carbon Disulfide					CAS #: 75-15-0		
3.464	3.464 (0.637)	76	555691	50.0000	51.023	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.536	3.536 (0.650)	45	557096	50.0000	50.091	80.00- 120.00	100.00
3.543	3.543 (0.651)	43	123294			0.00- 50.28	22.13
3.543	3.543 (0.651)	59	17210			0.00- 33.15	3.09
58 3-Chloropropene					CAS #: 107-05-1		
3.708	3.708 (0.681)	76	86039	50.0000	51.440	80.00- 120.00	100.00
3.708	3.708 (0.681)	41	450997			425.37- 485.37	524.18
66 Methylene Chloride					CAS #: 75-09-2		
3.894	3.894 (0.716)	49	436647	50.0000	59.409	80.00- 120.00	100.00
3.894	3.894 (0.716)	84	171803			14.95- 74.95	39.35
3.894	3.894 (0.716)	51	125580			0.42- 60.42	28.76
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.002	4.002 (0.735)	59	539302	50.0000	48.211	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol (continued)							
4.002	4.002 (0.735)	41	145772			0.00- 53.41	27.03
4.002	4.002 (0.735)	57	67026			0.00- 41.73	12.43
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.116	4.116 (0.756)	73	535106	50.0000	47.236	80.00- 120.00	100.00
4.109	4.109 (0.755)	57	192494			2.37- 62.37	35.97
4.109	4.109 (0.755)	41	214820			4.37- 64.37	40.15
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.138	4.138 (0.760)	98	123210	50.0000	50.743	80.00- 120.00	100.00
4.138	4.138 (0.760)	61	394702			269.90- 329.90	320.35
4.131	4.131 (0.759)	96	193564			127.45- 187.45	157.10
78 Hexane					CAS #: 110-54-3		
4.360	4.360 (0.801)	57	458225	50.0000	53.922	80.00- 120.00	100.00
4.360	4.360 (0.801)	43	358177			40.99- 100.99	78.17
4.360	4.360 (0.801)	86	46535			0.00- 40.81	10.16
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.625	4.625 (0.850)	63	470291	50.0000	53.838	80.00- 120.00	100.00
4.625	4.625 (0.850)	65	128463			0.00- 58.37	27.32
83 Isopropyl ether					CAS #: 108-20-3		
4.625	4.625 (0.850)	45	1205956	50.0000	58.091	80.00- 120.00	100.00
4.625	4.625 (0.850)	87	175070			0.00- 47.04	14.52
4.625	4.625 (0.850)	59	107461			0.00- 39.86	8.91
86 Vinyl Acetate					CAS #: 108-05-4		
4.675	4.675 (0.859)	86	46921	50.0000	45.305	80.00- 120.00	100.00
4.668	4.668 (0.858)	43	1098199			1833.17-1893.17	2340.53
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.983	4.983 (0.916)	59	854374	50.0000	50.565	80.00- 120.00	100.00
4.983	4.983 (0.916)	87	252414			1.48- 61.48	29.54
4.983	4.983 (0.916)	41	215125			0.00- 51.50	25.18
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.205	5.205 (0.957)	98	130009	50.0000	52.574	80.00- 120.00	100.00
5.205	5.205 (0.957)	96	208192			124.70- 184.70	160.14
5.205	5.205 (0.957)	61	369684			233.87- 293.87	284.35
92 2-Butanone					CAS #: 78-93-3		
5.234	5.234 (0.962)	72	99291	50.0000	51.662	80.00- 120.00	100.00
5.234	5.234 (0.962)	43	729412			611.89- 671.89	734.62
5.234	5.234 (0.962)	57	48054			17.72- 77.72	48.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
5.434	5.434 (0.999)	42	387686	50.0000	58.366	80.00- 120.00	100.00
5.434	5.434 (0.999)	71	80466			0.00- 53.97	20.76
5.434	5.434 (0.999)	72	85041			0.00- 55.92	21.94
100 Chloroform					CAS #: 67-66-3		
5.506	5.506 (1.012)	83	428003	50.0000	51.657	80.00- 120.00	100.00
5.499	5.499 (1.011)	85	273041			35.28- 95.28	63.79
102 Cyclohexane					CAS #: 110-82-7		
5.613	5.613 (1.032)	84	253827	50.0000	47.646	80.00- 120.00	100.00
5.613	5.613 (1.032)	56	479966			138.21- 198.21	189.09
5.613	5.613 (1.032)	41	321166			72.24- 132.24	126.53
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.628	5.628 (1.034)	97	452134	50.0000	47.061	80.00- 120.00	100.00
5.628	5.628 (1.034)	99	284822			33.83- 93.83	63.00
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.749	5.749 (1.057)	119	408348	50.0000	40.414	80.00- 120.00	100.00
5.749	5.749 (1.057)	117	436407			74.93- 134.93	106.87
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.950	5.950 (1.093)	57	1519484	50.0000	52.952	80.00- 120.00	100.00
5.950	5.950 (1.093)	56	496332			2.51- 62.51	32.66
5.950	5.950 (1.093)	41	489117			0.00- 58.92	32.19
116 Benzene					CAS #: 71-43-2		
5.964	5.964 (0.942)	78	583984	50.0000	49.973	80.00- 120.00	100.00
5.964	5.964 (0.942)	77	136461			0.00- 54.04	23.37
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.029	6.029 (0.952)	87	142085	50.0000	47.101	80.00- 120.00	100.00
6.029	6.029 (0.952)	73	608823			379.76- 439.76	428.49
6.029	6.029 (0.952)	55	230617			114.37- 174.37	162.31
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.043	6.043 (0.955)	62	376317	50.0000	53.908	80.00- 120.00	100.00
6.043	6.043 (0.955)	64	112727			0.59- 60.59	29.96
121 Heptane					CAS #: 142-82-5		
6.122	6.122 (0.967)	71	207985	50.0000	47.631	80.00- 120.00	100.00
6.122	6.122 (0.967)	43	630347			231.64- 291.64	303.07
6.122	6.122 (0.967)	57	301817			103.28- 163.28	145.11
125 Trichloroethene					CAS #: 79-01-6		
6.530	6.530 (1.032)	95	274752	50.0000	47.882	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.530	6.530 (1.032)	130	293829			82.18- 142.18	106.94
6.530	6.530 (1.032)	97	174763			33.62- 93.62	63.61
127 Methylcyclohexane					CAS #: 108-87-2		
6.630	6.630 (1.048)	83	365107	50.0000	47.570	80.00- 120.00	100.00
6.630	6.630 (1.048)	98	164100			16.98- 76.98	44.95
6.630	6.630 (1.048)	55	454701			83.20- 143.20	124.54
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.759	6.759 (1.068)	63	297883	50.0000	53.187	80.00- 120.00	100.00
6.759	6.759 (1.068)	62	214780			41.70- 101.70	72.10
6.759	6.759 (1.068)	41	230477			41.13- 101.13	77.37
136 1,4-Dioxane					CAS #: 123-91-1		
6.845	6.845 (1.081)	88	131432	50.0000	44.923	80.00- 120.00	100.00
6.845	6.845 (1.081)	58	126608			62.32- 122.32	96.33
6.845	6.845 (1.081)	57	47974			3.20- 63.20	36.50
138 Bromodichloromethane					CAS #: 75-27-4		
6.981	6.981 (1.103)	83	465660	50.0000	49.700	80.00- 120.00	100.00
6.981	6.981 (1.103)	85	292708			35.75- 95.75	62.86
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.361	7.361 (1.163)	75	378791	50.0000	48.666	80.00- 120.00	100.00
7.361	7.361 (1.163)	77	115468			0.75- 60.75	30.48
7.361	7.361 (1.163)	39	335602			45.96- 105.96	88.60
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.476	7.476 (1.181)	58	221668	50.0000	42.337	80.00- 120.00	100.00
7.476	7.476 (1.181)	43	726134			264.26- 324.26	327.58
7.476	7.476 (1.181)	85	66374			3.08- 63.08	29.94
147 Toluene					CAS #: 108-88-3		
7.605	7.605 (1.201)	91	771256	50.0000	47.955	80.00- 120.00	100.00
7.605	7.605 (1.201)	92	438225			28.28- 88.28	56.82
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.834	7.834 (0.893)	75	346716	50.0000	48.383	80.00- 120.00	100.00
7.834	7.834 (0.893)	77	110576			0.54- 60.54	31.89
7.834	7.834 (0.893)	39	288587			41.71- 101.71	83.23
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.991	7.991 (0.911)	97	263402	50.0000	49.004	80.00- 120.00	100.00
7.991	7.991 (0.911)	99	158153			33.23- 93.23	60.04
7.991	7.991 (0.911)	83	238243			57.40- 117.40	90.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.042	8.042 (0.917)	166	429696	50.0000	44.950	80.00- 120.00	100.00
8.034	8.034 (0.916)	129	278023			34.91- 94.91	64.70
8.042	8.042 (0.917)	131	276257			34.35- 94.35	64.29
158 2-Hexanone					CAS #: 591-78-6		
8.163	8.163 (0.931)	58	250891	50.0000	35.315	80.00- 120.00	100.00
8.163	8.163 (0.931)	43	573025			175.82- 235.82	228.40
8.163	8.163 (0.931)	100	36754			0.00- 45.85	14.65
160 Dibromochloromethane					CAS #: 124-48-1		
8.307	8.307 (0.947)	129	514194	50.0000	45.190	80.00- 120.00	100.00
8.307	8.307 (0.947)	127	399677			48.31- 108.31	77.73
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.414	8.414 (0.959)	107	418760	50.0000	47.988	80.00- 120.00	100.00
8.414	8.414 (0.959)	109	392928			65.63- 125.63	93.83
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.801 (1.003)	112	647397	50.0000	46.783	80.00- 120.00	100.00
8.801	8.801 (1.003)	114	202072			1.89- 61.89	31.21
8.794	8.794 (1.002)	77	341107			22.59- 82.59	52.69
167 Ethyl Benzene					CAS #: 100-41-4		
8.851	8.851 (1.009)	106	319825	50.0000	45.439	80.00- 120.00	100.00
8.851	8.851 (1.009)	91	1018837			277.26- 337.26	318.56
169 m,p-Xylene					CAS #: 108-38-3		
8.951	8.951 (1.020)	106	384312	50.0000	44.270	80.00- 120.00	100.00
8.951	8.951 (1.020)	91	801450			167.63- 227.63	208.54
171 o-Xylene					CAS #: 95-47-6		
9.288	9.288 (1.059)	106	376914	50.0000	46.788	80.00- 120.00	100.00
9.288	9.288 (1.059)	91	785709			178.91- 238.91	208.46
172 Styrene					CAS #: 100-42-5		
9.309	9.309 (1.061)	104	557000	50.0000	42.894	80.00- 120.00	100.00
9.302	9.302 (1.060)	78	271154			15.94- 75.94	48.68
174 Bromoform					CAS #: 75-25-2		
9.496	9.496 (1.082)	173	610313	50.0000	44.097	80.00- 120.00	100.00
9.503	9.503 (1.083)	171	317306			21.13- 81.13	51.99
175 Cumene					CAS #: 98-82-8		
9.575	9.575 (1.091)	105	1184769	50.0000	46.203	80.00- 120.00	100.00
9.575	9.575 (1.091)	120	316427			0.00- 57.59	26.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Cumene (continued)							
9.575	9.575 (1.091)	51	194497			0.00- 43.20	16.42
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.875	9.875 (1.126)	83	640345	50.0000	49.349	80.00- 120.00	100.00
9.875	9.875 (1.126)	85	412284			35.30- 95.30	64.38
182 Propylbenzene					CAS #: 103-65-1		
9.918	9.918 (1.131)	91	1421176	50.0000	45.411	80.00- 120.00	100.00
9.918	9.918 (1.131)	120	324328			0.00- 54.24	22.82
9.918	9.918 (1.131)	105	48211			0.00- 33.65	3.39
188 4-Ethyltoluene					CAS #: 622-96-8		
10.011	10.011 (1.141)	120	381883	50.0000	45.888	80.00- 120.00	100.00
10.011	10.011 (1.141)	105	1202156			283.78- 343.78	314.80
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.062	10.062 (1.147)	120	476968	50.0000	42.702	80.00- 120.00	100.00
10.062	10.062 (1.147)	105	977135			172.79- 232.79	204.86
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.185)	120	433655	50.0000	42.895	80.00- 120.00	100.00
10.391	10.391 (1.185)	105	931335			186.10- 246.10	214.76
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.670 (1.216)	146	751658	50.0000	43.046	80.00- 120.00	100.00
10.670	10.670 (1.216)	148	489098			34.63- 94.63	65.07
10.670	10.670 (1.216)	111	283572			7.17- 67.17	37.73
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.225)	146	752718	50.0000	42.196	80.00- 120.00	100.00
10.749	10.749 (1.225)	148	477688			33.55- 93.55	63.46
10.749	10.749 (1.225)	111	274239			4.50- 64.50	36.43
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.871	10.871 (1.239)	91	866691	50.0000	38.193	80.00- 120.00	100.00
10.871	10.871 (1.239)	126	188366			0.00- 52.80	21.73
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.263)	146	715459	50.0000	42.727	80.00- 120.00	100.00
11.079	11.079 (1.263)	148	445083			33.56- 93.56	62.21
11.079	11.079 (1.263)	111	271620			7.11- 67.11	37.96
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.476	12.476 (1.422)	180	673801	50.0000	37.467	80.00- 120.00	100.00
12.476	12.476 (1.422)	182	644765			66.05- 126.05	95.69

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.569	12.569	(1.433)	225	590761	50.0000	36.573	80.00- 120.00	100.00
12.569	12.569	(1.433)	223	375068			31.76- 91.76	63.49
228 Naphthalene						CAS #: 91-20-3		
12.741	12.741	(1.452)	128	101383	5.00000	3.635	80.00- 120.00	100.00
12.741	12.741	(1.452)	127	13724			0.00- 43.45	13.54

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071902.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: jg
Method File: /chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 19-JUL-2016
Calibration Time: 13:08
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

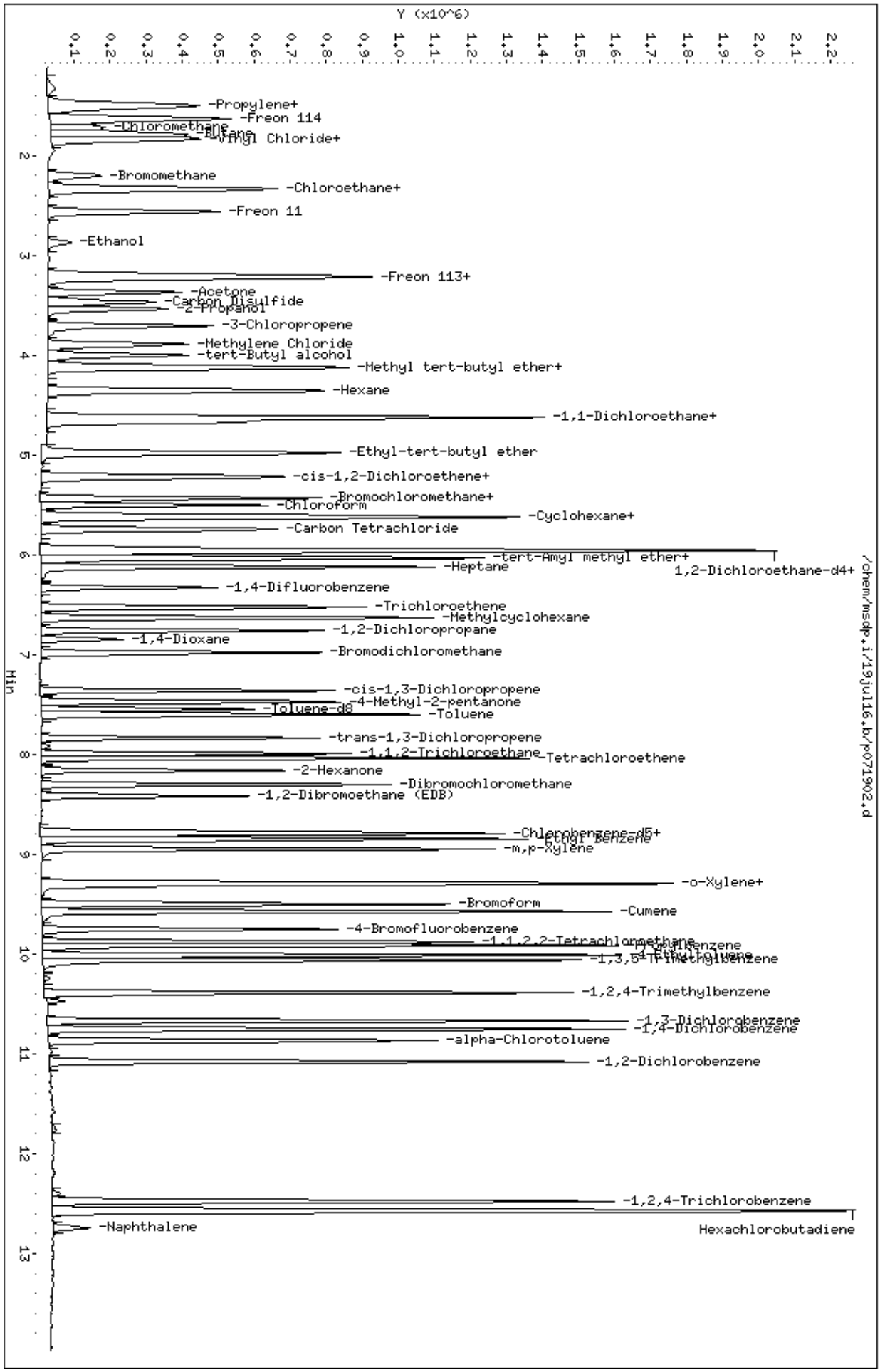
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	100040	60024	140056	95264	-4.77
123 1,4-Difluorobenze	406914	244148	569680	379135	-6.83
163 Chlorobenzene-d5	362010	217206	506814	348612	-3.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.33	6.00	6.66	6.33	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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/msdp.i/19jul16.b/p071902.d
Date : 19-JUL-2016 11:28
Client ID: CCV
Sample Info: 100mL #2789-84A
Column phase: RTX-624

Instrument: msdp.i
Operator: jg
Column diameter: 0.25



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Client Sample ID: LCS

Lab ID#: 1607235E-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 11:52 AM**	

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	100	70-130
Chloromethane	147 Q	70-130
Vinyl Chloride	133 Q	70-130
1,3-Butadiene	100	70-130
Bromomethane	106	70-130
Chloroethane	116	70-130
Freon 11	101	70-130
Ethanol	129	70-130
Freon 113	92	70-130
1,1-Dichloroethene	99	70-130
Acetone	109	70-130
2-Propanol	122	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	100	70-130
Methylene Chloride	121	70-130
Methyl tert-butyl ether	99	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	110	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	103	70-130
Tetrahydrofuran	121	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	106	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	113	70-130
Benzene	101	70-130
1,2-Dichloroethane	106	70-130
Heptane	102	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	109	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	110	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	95	70-130
2-Hexanone	114	70-130

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Client Sample ID: LCS

Lab ID#: 1607235E-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 11:52 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	100	70-130
o-Xylene	103	70-130
Styrene	107	70-130
Bromoform	98	70-130
Cumene	103	70-130
1,1,2,2-Tetrachloroethane	105	70-130
Propylbenzene	105	70-130
4-Ethyltoluene	97	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	94	70-130
1,4-Dichlorobenzene	92	70-130
alpha-Chlorotoluene	103	70-130
1,2-Dichlorobenzene	96	70-130
1,2,4-Trichlorobenzene	87	70-130
Hexachlorobutadiene	84	70-130
Naphthalene	77	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	99	70-130

Report Date: 19-Jul-2016 12:27

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 19jul16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: jg
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	59.505	119.01	60-140
11 Freon 12	50.000	51.881	103.76	70-130
15 Freon 114	50.000	49.872	99.74	70-130
17 Chloromethane	50.000	73.466	146.93*	70-130
23 Butane	50.000	53.250	106.50	60-140
25 Vinyl Chloride	50.000	66.362	132.72*	70-130
26 1,3-Butadiene	50.000	50.201	100.40	70-130
29 Bromomethane	50.000	52.784	105.57	70-130
30 Chloroethane	50.000	58.020	116.04	70-130
31 Isopentane	50.000	58.799	117.60	60-140
35 Freon 11	50.000	50.349	100.70	70-130
42 Ethanol	50.000	64.721	129.44	70-130
49 Freon 113	50.000	46.020	92.04	70-130
50 1,1-Dichloroethene	50.000	49.565	99.13	70-130
52 Acetone	50.000	54.733	109.47	70-130
56 Carbon Disulfide	50.000	45.713	91.43	70-130
57 2-Propanol	50.000	61.082	122.16	70-130
58 3-Chloropropene	50.000	50.171	100.34	70-130
66 Methylene Chloride	50.000	60.602	121.21	70-130
72 Methyl tert-butyl	50.000	49.646	99.29	70-130
73 trans-1,2-Dichloro	42.500	44.905	105.66	70-130
78 Hexane	50.000	55.084	110.17	70-130
82 1,1-Dichloroethane	50.000	53.995	107.99	70-130
86 Vinyl Acetate	50.000	50.164	100.33	70-130
91 cis-1,2-Dichloroet	56.500	58.274	103.14	70-130
92 2-Butanone	50.000	51.764	103.53	70-130
99 Tetrahydrofuran	50.000	60.327	120.65	70-130
100 Chloroform	50.000	51.991	103.98	70-130
103 1,1,1-Trichloroeth	50.000	48.564	97.13	70-130
106 Carbon Tetrachlori	50.000	45.954	91.91	70-130
102 Cyclohexane	50.000	53.082	106.16	70-130
113 2,2,4-Trimethylpen	50.000	56.438	112.88	70-130
116 Benzene	50.000	50.663	101.33	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	53.279	106.56	70-130
121 Heptane	50.000	50.945	101.89	70-130
125 Trichloroethene	50.000	48.351	96.70	70-130
127 Methylcyclohexane	50.000	51.398	102.80	60-140
132 1,2-Dichloropropan	50.000	54.304	108.61	70-130
136 1,4-Dioxane	50.000	48.970	97.94	70-130
138 Bromodichlorometha	50.000	52.416	104.83	70-130
144 cis-1,3-Dichloropr	50.000	47.523	95.05	70-130
145 4-Methyl-2-pentano	50.000	55.085	110.17	70-130
147 Toluene	50.000	49.784	99.57	70-130
150 trans-1,3-Dichloro	50.000	50.797	101.59	70-130
155 1,1,2-Trichloroeth	50.000	51.984	103.97	70-130
156 Tetrachloroethene	50.000	47.399	94.80	70-130
158 2-Hexanone	50.000	56.903	113.81	70-130
160 Dibromochlorometha	50.000	49.018	98.04	70-130
161 1,2-Dibromoethane	50.000	50.748	101.50	70-130
165 Chlorobenzene	50.000	48.845	97.69	70-130
167 Ethyl Benzene	50.000	49.349	98.70	70-130
169 m,p-Xylene	50.000	50.050	100.10	70-130
171 o-Xylene	50.000	51.712	103.43	70-130
172 Styrene	50.000	53.593	107.19	70-130
174 Bromoform	65.000	63.517	97.72	70-130
175 Cumene	50.000	51.311	102.62	70-130
181 1,1,2,2-Tetrachlor	50.000	52.555	105.11	70-130
182 Propylbenzene	50.000	52.564	105.13	70-130
188 4-Ethyltoluene	50.000	48.503	97.01	70-130
190 1,3,5-Trimethylben	50.000	50.509	101.02	70-130
196 1,2,4-Trimethylben	50.000	49.558	99.12	70-130
208 1,3-Dichlorobenzen	50.000	47.252	94.50	70-130
209 1,4-Dichlorobenzen	50.000	45.815	91.63	70-130
212 alpha-Chlorotoluen	50.000	51.416	102.83	70-130
214 1,2-Dichlorobenzen	50.000	47.972	95.94	70-130
226 1,2,4-Trichloroben	50.000	43.655	87.31	70-130
227 Hexachlorobutadien	50.000	41.946	83.89	70-130
228 Naphthalene	5.000	3.874	77.49	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.183	108.73	70-130
$ 146 Toluene-d8	25.000	25.786	103.14	70-130
$ 177 4-Bromofluorobenze	25.000	24.847	99.39	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071903.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 19-JUL-2016 11:52
Operator : jg Inst ID: msdp.i
Smp Info : 50mL #2789-108
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 19-Jul-2016 12:05 jscarbro Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 14 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
* 98 Bromochloromethane						CAS #: 74-97-5	
5.442	5.441 (1.000)	130	94195	25.0000		80.00- 120.00	100.00
5.442	5.441 (1.000)	128	70834			49.40- 109.40	75.20
5.434	5.434 (1.000)	49	219037			153.31- 213.31	232.54
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.330	6.330 (1.000)	114	374725	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	52163			0.00- 43.38	13.92
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.772 (1.000)	117	335409	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	184608			21.26- 81.26	55.04
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.979	5.979 (1.099)	65	157270	27.1832	27.183	80.00- 120.00	100.00
5.979	5.971 (1.099)	67	84169			25.58- 85.58	53.52
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.547	7.547 (1.192)	98	390007	25.7862	25.786	80.00- 120.00	100.00
7.547	7.547 (1.192)	70	41748			0.00- 40.37	10.70

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.192)   100    261209                    38.69-  98.69    66.98
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.754   9.754 (1.112)   174    272515 24.8469   24.847  80.00- 120.00   100.00
  9.754   9.754 (1.112)    95    262732                   59.95- 119.95    96.41
  9.754   9.754 (1.112)   176    257970                   67.47- 127.47    94.66
-------------------------------------------------------------------------------
    9 Propylene                                     CAS #: 115-07-1
  1.479   1.479 (0.272)    41    277930 59.5050   59.505  80.00- 120.00   100.00
  1.479   1.479 (0.272)    42    182031                   35.34-  95.34    65.50
  1.479   1.479 (0.272)    39    200058                   42.39- 102.39    71.98
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.507   1.507 (0.277)    85    562299 51.8814   51.881  80.00- 120.00   100.00
  1.507   1.507 (0.277)    87    175732                    2.43-  62.43    31.25
-------------------------------------------------------------------------------
   15 Freon 114                                     CAS #: 76-14-2
  1.633   1.633 (0.300)   135    425148 49.8723   49.872  80.00- 120.00   100.00
  1.633   1.633 (0.300)   137    134178                    1.44-  61.44    31.56
-------------------------------------------------------------------------------
   17 Chloromethane                                 CAS #: 74-87-3
  1.717   1.716 (0.315)    50    382519 73.4658   73.466  80.00- 120.00   100.00(R)
  1.717   1.716 (0.315)    52    107459                    1.49-  61.49    28.09
-------------------------------------------------------------------------------
   23 Butane                                        CAS #: 106-97-8
  1.787   1.786 (0.328)    58     58530 53.2499   53.250  80.00- 120.00   100.00
  1.787   1.786 (0.328)    43    551537                  835.45- 895.45   942.32
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                CAS #: 75-01-4
  1.815   1.828 (0.333)    62    323756 66.3621   66.362  80.00- 120.00   100.00(R)
  1.815   1.828 (0.333)    64     74999                    0.00-  54.54    23.17
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                 CAS #: 106-99-0
  1.843   1.842 (0.339)    54    251159 50.2012   50.201  80.00- 120.00   100.00
  1.843   1.842 (0.339)    39    413734                  103.78- 163.78   164.73
-------------------------------------------------------------------------------
   29 Bromomethane                                  CAS #: 74-83-9
  2.197   2.204 (0.404)    94    171161 52.7841   52.784  80.00- 120.00   100.00
  2.197   2.204 (0.404)    96    160121                   66.47- 126.47    93.55
-------------------------------------------------------------------------------
   30 Chloroethane                                  CAS #: 75-00-3
  2.311   2.311 (0.425)    64    119700 58.0201   58.020  80.00- 120.00   100.00
  2.318   2.311 (0.426)    66     33629                    0.00-  59.53    28.09
  2.311   2.311 (0.425)    49     54155                   11.61-  71.61    45.24
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.430)	43	415549	58.7992	58.799	80.00- 120.00	100.00
2.340	2.340 (0.430)	57	229873			31.35- 91.35	55.32
35 Freon 11					CAS #: 75-69-4		
2.562	2.562 (0.471)	101	572210	50.3487	50.349	80.00- 120.00	100.00
2.562	2.562 (0.471)	103	371133			35.01- 95.01	64.86
42 Ethanol					CAS #: 64-17-5		
2.870	2.870 (0.527)	45	141648	64.7207	64.721	80.00- 120.00	100.00
2.870	2.870 (0.527)	43	32950			0.00- 51.15	23.26
2.870	2.870 (0.527)	46	54834			7.97- 67.97	38.71
49 Freon 113					CAS #: 76-13-1		
3.207	3.207 (0.589)	151	392809	46.0199	46.020	80.00- 120.00	100.00
3.207	3.207 (0.589)	153	255262			33.63- 93.63	64.98
3.207	3.207 (0.589)	101	448370			73.82- 133.82	114.14
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.235	3.235 (0.595)	98	118827	49.5653	49.565	80.00- 120.00	100.00
3.228	3.235 (0.593)	96	191714			130.56- 190.56	161.34
3.235	3.228 (0.595)	61	446236			327.82- 387.82	375.53
52 Acetone					CAS #: 67-64-1		
3.371	3.371 (0.620)	58	138709	54.7328	54.733	80.00- 120.00	100.00
3.371	3.371 (0.620)	43	567318			353.98- 413.98	409.00
56 Carbon Disulfide					CAS #: 75-15-0		
3.465	3.464 (0.637)	76	492267	45.7129	45.713	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.543	3.536 (0.651)	45	671706	61.0821	61.082	80.00- 120.00	100.00
3.536	3.543 (0.650)	43	141126			0.00- 50.28	21.01
3.536	3.543 (0.650)	59	20223			0.00- 33.15	3.01
58 3-Chloropropene					CAS #: 107-05-1		
3.708	3.708 (0.681)	76	82975	50.1707	50.171	80.00- 120.00	100.00
3.708	3.708 (0.681)	41	419868			425.37- 485.37	506.02
66 Methylene Chloride					CAS #: 75-09-2		
3.894	3.894 (0.716)	49	440418	60.6025	60.602	80.00- 120.00	100.00
3.894	3.894 (0.716)	84	174454			14.95- 74.95	39.61
3.894	3.894 (0.716)	51	132531			0.42- 60.42	30.09
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.116	4.116 (0.756)	73	556095	49.6462	49.646	80.00- 120.00	100.00

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

   72 Methyl tert-butyl ether (continued)
  4.116   4.109 (0.756)    57    197218                     2.37-  62.37    35.46
  4.109   4.109 (0.755)    41    226226                     4.37-  64.37    40.68
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.138   4.138 (0.760)    98    107810 44.9050   44.905  80.00- 120.00   100.00
  4.138   4.138 (0.760)    61    343510                  269.90- 329.90   318.63
  4.138   4.131 (0.760)    96    170274                  127.45- 187.45   157.94
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.360   4.360 (0.801)    57    462855 55.0846   55.084  80.00- 120.00   100.00
  4.360   4.360 (0.801)    43    367728                   40.99- 100.99    79.45
  4.360   4.360 (0.801)    86     47931                    0.00-  40.81    10.36
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.625   4.625 (0.850)    63    466364 53.9949   53.995  80.00- 120.00   100.00
  4.625   4.625 (0.850)    65    132930                    0.00-  58.37    28.50
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.675   4.675 (0.859)    86     51371 50.1644   50.164  80.00- 120.00   100.00
  4.675   4.668 (0.859)    43   1025541                  1833.17-1893.17  1996.34
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.205   5.205 (0.957)    98    142486 58.2739   58.274  80.00- 120.00   100.00
  5.205   5.205 (0.957)    96    230623                  124.70- 184.70   161.86
  5.205   5.205 (0.957)    61    410916                  233.87- 293.87   288.39
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.234   5.234 (0.962)    72     98369 51.7637   51.764  80.00- 120.00   100.00
  5.234   5.234 (0.962)    43    716282                  611.89- 671.89   728.16
  5.234   5.234 (0.962)    57     48517                   17.72-  77.72    49.32
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                               CAS #: 109-99-9
  5.434   5.434 (0.999)    42    396214 60.3270   60.327  80.00- 120.00   100.00
  5.434   5.434 (0.999)    71     85327                    0.00-  53.97    21.54
  5.434   5.434 (0.999)    72     86727                    0.00-  55.92    21.89
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.506   5.506 (1.012)    83    425936 51.9907   51.991  80.00- 120.00   100.00
  5.506   5.499 (1.012)    85    275129                   35.28-  95.28    64.59
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.613   5.613 (1.032)    84    279613 53.0824   53.082  80.00- 120.00   100.00
  5.613   5.613 (1.032)    56    497877                  138.21- 198.21   178.06
  5.613   5.613 (1.032)    41    328927                   72.24- 132.24   117.64
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane						CAS #: 71-55-6	
5.628	5.628 (1.034)	97	461345	48.5645	48.564	80.00- 120.00	100.00
5.628	5.628 (1.034)	99	297045			33.83- 93.83	64.39
106 Carbon Tetrachloride						CAS #: 56-23-5	
5.742	5.749 (1.055)	119	459111	45.9535	45.954	80.00- 120.00	100.00
5.742	5.749 (1.055)	117	478832			74.93- 134.93	104.30
113 2,2,4-Trimethylpentane						CAS #: 540-84-1	
5.950	5.950 (1.093)	57	1601318	56.4377	56.438	80.00- 120.00	100.00
5.950	5.950 (1.093)	56	532212			2.51- 62.51	33.24
5.950	5.950 (1.093)	41	520945			0.00- 58.92	32.53
116 Benzene						CAS #: 71-43-2	
5.964	5.964 (0.942)	78	585159	50.6629	50.663	80.00- 120.00	100.00
5.964	5.964 (0.942)	77	140773			0.00- 54.04	24.06
120 1,2-Dichloroethane						CAS #: 107-06-2	
6.043	6.043 (0.955)	62	367600	53.2793	53.279	80.00- 120.00	100.00
6.043	6.043 (0.955)	64	112752			0.59- 60.59	30.67
121 Heptane						CAS #: 142-82-5	
6.122	6.122 (0.967)	71	219865	50.9446	50.945	80.00- 120.00	100.00
6.122	6.122 (0.967)	43	653249			231.64- 291.64	297.11
6.122	6.122 (0.967)	57	308051			103.28- 163.28	140.11
125 Trichloroethene						CAS #: 79-01-6	
6.530	6.530 (1.032)	95	274211	48.3507	48.351	80.00- 120.00	100.00
6.530	6.530 (1.032)	130	287530			82.18- 142.18	104.86
6.530	6.530 (1.032)	97	177984			33.62- 93.62	64.91
127 Methylcyclohexane						CAS #: 108-87-2	
6.631	6.630 (1.048)	83	389901	51.3981	51.398	80.00- 120.00	100.00
6.631	6.630 (1.048)	98	177692			16.98- 76.98	45.57
6.631	6.630 (1.048)	55	476312			83.20- 143.20	122.16
132 1,2-Dichloropropane						CAS #: 78-87-5	
6.760	6.759 (1.068)	63	300605	54.3043	54.304	80.00- 120.00	100.00
6.760	6.759 (1.068)	62	215380			41.70- 101.70	71.65
6.760	6.759 (1.068)	41	230425			41.13- 101.13	76.65
136 1,4-Dioxane						CAS #: 123-91-1	
6.845	6.845 (1.081)	88	141605	48.9696	48.970	80.00- 120.00	100.00
6.845	6.845 (1.081)	58	136921			62.32- 122.32	96.69
6.845	6.845 (1.081)	57	51208			3.20- 63.20	36.16

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane						CAS #: 75-27-4	
6.982	6.981 (1.103)	83	485397	52.4165	52.416	80.00- 120.00	100.00
6.982	6.981 (1.103)	85	295293			35.75- 95.75	60.84
144 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.361	7.361 (1.163)	75	365596	47.5232	47.523	80.00- 120.00	100.00
7.361	7.361 (1.163)	77	112410			0.75- 60.75	30.75
7.361	7.361 (1.163)	39	319324			45.96- 105.96	87.34
145 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.469	7.476 (1.180)	58	285058	55.0852	55.085	80.00- 120.00	100.00
7.469	7.476 (1.180)	43	908828			264.26- 324.26	318.82
7.476	7.476 (1.181)	85	81848			3.08- 63.08	28.71
147 Toluene						CAS #: 108-88-3	
7.605	7.605 (1.201)	91	791356	49.7837	49.784	80.00- 120.00	100.00
7.605	7.605 (1.201)	92	448991			28.28- 88.28	56.74
150 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
7.834	7.834 (0.893)	75	350228	50.7973	50.797	80.00- 120.00	100.00
7.834	7.834 (0.893)	77	114703			0.54- 60.54	32.75
7.834	7.834 (0.893)	39	298101			41.71- 101.71	85.12
155 1,1,2-Trichloroethane						CAS #: 79-00-5	
7.992	7.991 (0.911)	97	268843	51.9846	51.984	80.00- 120.00	100.00
7.992	7.991 (0.911)	99	165477			33.23- 93.23	61.55
7.992	7.991 (0.911)	83	236587			57.40- 117.40	88.00
156 Tetrachloroethene						CAS #: 127-18-4	
8.035	8.042 (0.916)	166	435942	47.3989	47.399	80.00- 120.00	100.00
8.035	8.034 (0.916)	129	282526			34.91- 94.91	64.81
8.035	8.042 (0.916)	131	282609			34.35- 94.35	64.83
158 2-Hexanone						CAS #: 591-78-6	
8.156	8.163 (0.930)	58	388955	56.9032	56.903	80.00- 120.00	100.00
8.156	8.163 (0.930)	43	885464			175.82- 235.82	227.65
8.163	8.163 (0.931)	100	54840			0.00- 45.85	14.10
160 Dibromochloromethane						CAS #: 124-48-1	
8.300	8.307 (0.946)	129	536629	49.0185	49.018	80.00- 120.00	100.00
8.300	8.307 (0.946)	127	419434			48.31- 108.31	78.16
161 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.414	8.414 (0.959)	107	426076	50.7486	50.748	80.00- 120.00	100.00
8.414	8.414 (0.959)	109	403444			65.63- 125.63	94.69

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
8.794	8.801 (1.002)	112	650339	48.8455	48.845	80.00- 120.00	100.00
8.801	8.801 (1.003)	114	208696			1.89- 61.89	32.09
8.794	8.794 (1.002)	77	350597			22.59- 82.59	53.91
167 Ethyl Benzene					CAS #: 100-41-4		
8.851	8.851 (1.009)	106	334193	49.3490	49.349	80.00- 120.00	100.00
8.851	8.851 (1.009)	91	1053744			277.26- 337.26	315.31
169 m,p-Xylene					CAS #: 108-38-3		
8.944	8.951 (1.020)	106	418036	50.0500	50.050	80.00- 120.00	100.00
8.944	8.951 (1.020)	91	840197			167.63- 227.63	200.99
171 o-Xylene					CAS #: 95-47-6		
9.288	9.288 (1.059)	106	400804	51.7125	51.712	80.00- 120.00	100.00
9.288	9.288 (1.059)	91	853232			178.91- 238.91	212.88
172 Styrene					CAS #: 100-42-5		
9.310	9.309 (1.061)	104	669575	53.5934	53.593	80.00- 120.00	100.00
9.302	9.302 (1.060)	78	311973			15.94- 75.94	46.59
174 Bromoform					CAS #: 75-25-2		
9.496	9.496 (1.082)	173	845791	63.5170	63.517	80.00- 120.00	100.00
9.496	9.503 (1.082)	171	437546			21.13- 81.13	51.73
175 Cumene					CAS #: 98-82-8		
9.575	9.575 (1.091)	105	1265919	51.3112	51.311	80.00- 120.00	100.00
9.575	9.575 (1.091)	120	338310			0.00- 57.59	26.72
9.575	9.575 (1.091)	51	203606			0.00- 43.20	16.08
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.875	9.875 (1.126)	83	656122	52.5551	52.555	80.00- 120.00	100.00
9.875	9.875 (1.126)	85	432095			35.30- 95.30	65.86
182 Propylbenzene					CAS #: 103-65-1		
9.918	9.918 (1.131)	91	1582717	52.5636	52.564	80.00- 120.00	100.00
9.918	9.918 (1.131)	120	365386			0.00- 54.24	23.09
9.918	9.918 (1.131)	105	54601			0.00- 33.65	3.45
188 4-Ethyltoluene					CAS #: 622-96-8		
10.012	10.011 (1.141)	120	388362	48.5031	48.503	80.00- 120.00	100.00
10.012	10.011 (1.141)	105	1296020			283.78- 343.78	333.71
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.062	10.062 (1.147)	120	542800	50.5094	50.509	80.00- 120.00	100.00
10.062	10.062 (1.147)	105	1144974			172.79- 232.79	210.94

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.185)	120	482046	49.5583	49.558	80.00- 120.00	100.00
10.391	10.391 (1.185)	105	1042888			186.10- 246.10	216.35
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.671	10.670 (1.216)	146	793868	47.2524	47.252	80.00- 120.00	100.00
10.671	10.670 (1.216)	148	500572			34.63- 94.63	63.05
10.671	10.670 (1.216)	111	292944			7.17- 67.17	36.90
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.225)	146	786322	45.8152	45.815	80.00- 120.00	100.00
10.749	10.749 (1.225)	148	499892			33.55- 93.55	63.57
10.749	10.749 (1.225)	111	287503			4.50- 64.50	36.56
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.871 (1.238)	91	1122567	51.4162	51.416	80.00- 120.00	100.00
10.864	10.871 (1.238)	126	241903			0.00- 52.80	21.55
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.263)	146	772864	47.9720	47.972	80.00- 120.00	100.00
11.079	11.079 (1.263)	148	480847			33.56- 93.56	62.22
11.079	11.079 (1.263)	111	283133			7.11- 67.11	36.63
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.476	12.476 (1.422)	180	755361	43.6553	43.655	80.00- 120.00	100.00
12.476	12.476 (1.422)	182	717108			66.05- 126.05	94.94
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.569	12.569 (1.433)	225	651878	41.9456	41.946	80.00- 120.00	100.00
12.569	12.569 (1.433)	223	417475			31.76- 91.76	64.04
228 Naphthalene					CAS #: 91-20-3		
12.741	12.741 (1.452)	128	103983	3.87458	3.874	80.00- 120.00	100.00
12.741	12.741 (1.452)	127	15108			0.00- 43.45	14.53

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071903.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: jg
Method File: /var/chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-JUL-2016
Calibration Time: 11:28
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

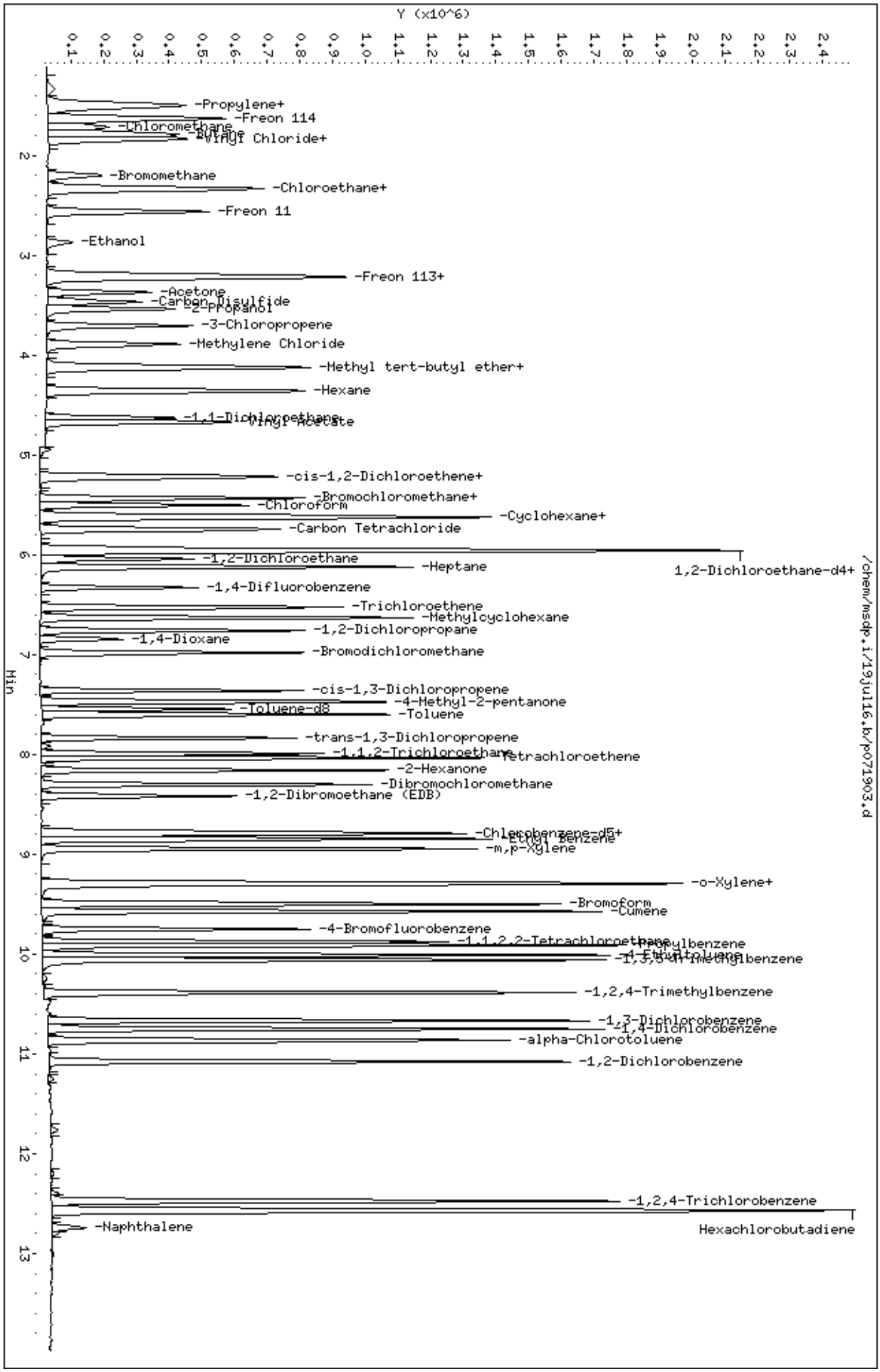
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	94195	-1.12
123 1,4-Difluorobenze	379135	227481	530789	374725	-1.16
163 Chlorobenzene-d5	348612	209167	488057	335409	-3.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.33	6.00	6.66	6.33	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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/msdp.i/19jul16.b/p071903.d
Date : 19-JUL-2016 11:52
Client ID: LCS
Sample Info: 50mL #2789-108
Column phase: RTX-624

Instrument: msdp.i
Operator: jg
Column diameter: 0.25



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Client Sample ID: LCSD

Lab ID#: 1607235E-16AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 12:17 PM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	102	70-130
Chloromethane	142 Q	70-130
Vinyl Chloride	134 Q	70-130
1,3-Butadiene	109	70-130
Bromomethane	108	70-130
Chloroethane	116	70-130
Freon 11	102	70-130
Ethanol	134 Q	70-130
Freon 113	94	70-130
1,1-Dichloroethene	103	70-130
Acetone	110	70-130
2-Propanol	123	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	97	70-130
Methylene Chloride	120	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	108	70-130
Hexane	113	70-130
1,1-Dichloroethane	109	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	121	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	114	70-130
Benzene	99	70-130
1,2-Dichloroethane	106	70-130
Heptane	100	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	105	70-130
1,4-Dioxane	97	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	104	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	103	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	96	70-130
2-Hexanone	116	70-130

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Client Sample ID: LCSD

Lab ID#: 1607235E-16AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p071904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/16 12:17 PM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	102	70-130
o-Xylene	105	70-130
Styrene	109	70-130
Bromoform	99	70-130
Cumene	105	70-130
1,1,2,2-Tetrachloroethane	108	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	104	70-130
1,3-Dichlorobenzene	97	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	104	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	93	70-130
Hexachlorobutadiene	88	70-130
Naphthalene	85	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 19-Jul-2016 12:51

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 19jul16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: jg
Data Type: MS DATA
SampleType: LCSD
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	60.302	120.60	60-140
11 Freon 12	50.000	53.074	106.15	70-130
15 Freon 114	50.000	50.809	101.62	70-130
17 Chloromethane	50.000	70.844	141.69*	70-130
23 Butane	50.000	52.226	104.45	60-140
25 Vinyl Chloride	50.000	67.076	134.15*	70-130
26 1,3-Butadiene	50.000	54.556	109.11	70-130
29 Bromomethane	50.000	53.934	107.87	70-130
30 Chloroethane	50.000	58.193	116.39	70-130
31 Isopentane	50.000	60.086	120.17	60-140
35 Freon 11	50.000	50.969	101.94	70-130
42 Ethanol	50.000	66.895	133.79*	70-130
49 Freon 113	50.000	47.007	94.01	70-130
50 1,1-Dichloroethene	50.000	51.317	102.63	70-130
52 Acetone	50.000	55.111	110.22	70-130
56 Carbon Disulfide	50.000	45.711	91.42	70-130
57 2-Propanol	50.000	61.526	123.05	70-130
58 3-Chloropropene	50.000	48.300	96.60	70-130
66 Methylene Chloride	50.000	60.110	120.22	70-130
72 Methyl tert-butyl	50.000	50.402	100.80	70-130
73 trans-1,2-Dichloro	42.500	46.137	108.56	70-130
78 Hexane	50.000	56.738	113.48	70-130
82 1,1-Dichloroethane	50.000	54.329	108.66	70-130
86 Vinyl Acetate	50.000	50.954	101.91	70-130
91 cis-1,2-Dichloroet	56.500	59.490	105.29	70-130
92 2-Butanone	50.000	51.196	102.39	70-130
99 Tetrahydrofuran	50.000	60.490	120.98	70-130
100 Chloroform	50.000	52.899	105.80	70-130
103 1,1,1-Trichloroeth	50.000	49.706	99.41	70-130
106 Carbon Tetrachlori	50.000	47.024	94.05	70-130
102 Cyclohexane	50.000	51.688	103.38	70-130
113 2,2,4-Trimethylpen	50.000	57.097	114.19	70-130
116 Benzene	50.000	49.668	99.34	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	53.088	106.18	70-130
121 Heptane	50.000	49.865	99.73	70-130
125 Trichloroethene	50.000	46.955	93.91	70-130
127 Methylcyclohexane	50.000	49.349	98.70	60-140
132 1,2-Dichloropropan	50.000	52.649	105.30	70-130
136 1,4-Dioxane	50.000	48.465	96.93	70-130
138 Bromodichlorometha	50.000	51.394	102.79	70-130
144 cis-1,3-Dichloropr	50.000	45.981	91.96	70-130
145 4-Methyl-2-pentano	50.000	52.019	104.04	70-130
147 Toluene	50.000	48.741	97.48	70-130
150 trans-1,3-Dichloro	50.000	51.738	103.48	70-130
155 1,1,2-Trichloroeth	50.000	53.288	106.58	70-130
156 Tetrachloroethene	50.000	47.976	95.95	70-130
158 2-Hexanone	50.000	57.752	115.51	70-130
160 Dibromochlorometha	50.000	49.659	99.32	70-130
161 1,2-Dibromoethane	50.000	52.131	104.26	70-130
165 Chlorobenzene	50.000	49.967	99.93	70-130
167 Ethyl Benzene	50.000	49.846	99.69	70-130
169 m,p-Xylene	50.000	50.978	101.96	70-130
171 o-Xylene	50.000	52.333	104.67	70-130
172 Styrene	50.000	54.454	108.91	70-130
174 Bromoform	65.000	64.134	98.67	70-130
175 Cumene	50.000	52.518	105.04	70-130
181 1,1,2,2-Tetrachlor	50.000	54.064	108.13	70-130
182 Propylbenzene	50.000	53.049	106.10	70-130
188 4-Ethyltoluene	50.000	51.480	102.96	70-130
190 1,3,5-Trimethylben	50.000	50.240	100.48	70-130
196 1,2,4-Trimethylben	50.000	51.840	103.68	70-130
208 1,3-Dichlorobenzen	50.000	48.408	96.82	70-130
209 1,4-Dichlorobenzen	50.000	48.484	96.97	70-130
212 alpha-Chlorotoluen	50.000	52.057	104.11	70-130
214 1,2-Dichlorobenzen	50.000	49.301	98.60	70-130
226 1,2,4-Trichloroben	50.000	46.749	93.50	70-130
227 Hexachlorobutadien	50.000	43.827	87.65	70-130
228 Naphthalene	5.000	4.241	84.83	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.337	109.35	70-130
$ 146 Toluene-d8	25.000	24.500	98.00	70-130
$ 177 4-Bromofluorobenze	25.000	24.621	98.48	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/19jul16.b/p071904.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 19-JUL-2016 12:17
Operator : jg Inst ID: msdp.i
Smp Info : 50mL #2789-108
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msdp.i/19jul16.b/p16q0407e.m
Meth Date : 19-Jul-2016 12:05 jscarbro Quant Type: ISTD
Cal Date : 12-JUL-2016 13:59 Cal File: p071207.d
Als bottle: 14 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
* 98 Bromochloromethane					CAS #: 74-97-5		
5.441	5.441 (1.000)	130	94211	25.0000		80.00- 120.00	100.00
5.434	5.441 (1.000)	128	74793			49.40- 109.40	79.39
5.434	5.434 (1.000)	49	220343			153.31- 213.31	233.88
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.330	6.330 (1.000)	114	386638	25.0000		80.00- 120.00	100.00
6.330	6.330 (1.000)	88	53085			0.00- 43.38	13.73
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.772	8.772 (1.000)	117	333654	25.0000		80.00- 120.00	100.00
8.772	8.772 (1.000)	82	179495			21.26- 81.26	53.80
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.979	5.979 (1.099)	65	158189	27.3374	27.337	80.00- 120.00	100.00
5.979	5.971 (1.099)	67	84841			25.58- 85.58	53.63
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.547	7.547 (1.192)	98	382334	24.5000	24.500	80.00- 120.00	100.00
7.547	7.547 (1.192)	70	43355			0.00- 40.37	11.34

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

$ 146 Toluene-d8 (continued)
  7.547   7.547 (1.192)   100    261395                    38.69-  98.69    68.37
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                          CAS #: 460-00-4
  9.761   9.754 (1.113)   174    268627 24.6212   24.621  80.00- 120.00   100.00
  9.761   9.754 (1.113)    95    255105                   59.95- 119.95    94.97
  9.761   9.754 (1.113)   176    257504                   67.47- 127.47    95.86
-------------------------------------------------------------------------------
    9 Propylene                                     CAS #: 115-07-1
  1.479   1.479 (0.272)    41    281702 60.3024   60.302  80.00- 120.00   100.00
  1.479   1.479 (0.272)    42    183732                   35.34-  95.34    65.22
  1.479   1.479 (0.272)    39    202312                   42.39- 102.39    71.82
-------------------------------------------------------------------------------
   11 Freon 12                                      CAS #: 75-71-8
  1.507   1.507 (0.277)    85    575321 53.0739   53.074  80.00- 120.00   100.00
  1.507   1.507 (0.277)    87    179802                    2.43-  62.43    31.25
-------------------------------------------------------------------------------
   15 Freon 114                                     CAS #: 76-14-2
  1.633   1.633 (0.300)   135    433206 50.8090   50.809  80.00- 120.00   100.00
  1.633   1.633 (0.300)   137    138264                    1.44-  61.44    31.92
-------------------------------------------------------------------------------
   17 Chloromethane                                 CAS #: 74-87-3
  1.716   1.716 (0.315)    50    368932 70.8443   70.844  80.00- 120.00   100.00(R)
  1.716   1.716 (0.315)    52    113156                    1.49-  61.49    30.67
-------------------------------------------------------------------------------
   23 Butane                                        CAS #: 106-97-8
  1.786   1.786 (0.328)    58     57415 52.2266   52.226  80.00- 120.00   100.00
  1.786   1.786 (0.328)    43    557476                  835.45- 895.45   970.96
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                CAS #: 75-01-4
  1.814   1.828 (0.333)    62    327294 67.0760   67.076  80.00- 120.00   100.00(R)
  1.814   1.828 (0.333)    64     77563                    0.00-  54.54    23.70
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                 CAS #: 106-99-0
  1.842   1.842 (0.339)    54    272992 54.5558   54.556  80.00- 120.00   100.00
  1.842   1.842 (0.339)    39    365291                  103.78- 163.78   133.81
-------------------------------------------------------------------------------
   29 Bromomethane                                  CAS #: 74-83-9
  2.197   2.204 (0.404)    94    174920 53.9342   53.934  80.00- 120.00   100.00
  2.197   2.204 (0.404)    96    162181                   66.47- 126.47    92.72
-------------------------------------------------------------------------------
   30 Chloroethane                                  CAS #: 75-00-3
  2.311   2.311 (0.425)    64    120077 58.1929   58.193  80.00- 120.00   100.00
  2.311   2.311 (0.425)    66     33631                    0.00-  59.53    28.01
  2.311   2.311 (0.425)    49     52071                   11.61-  71.61    43.36
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
31 Isopentane						CAS #: 78-78-4	
2.340	2.340 (0.430)	43	424717	60.0862	60.086	80.00- 120.00	100.00
2.340	2.340 (0.430)	57	227458			31.35- 91.35	53.56
35 Freon 11						CAS #: 75-69-4	
2.562	2.562 (0.471)	101	579354	50.9687	50.969	80.00- 120.00	100.00
2.562	2.562 (0.471)	103	368184			35.01- 95.01	63.55
42 Ethanol						CAS #: 64-17-5	
2.870	2.870 (0.527)	45	146431	66.8948	66.895	80.00- 120.00	100.00(R)
2.870	2.870 (0.527)	43	33997			0.00- 51.15	23.22
2.870	2.870 (0.527)	46	57150			7.97- 67.97	39.03
49 Freon 113						CAS #: 76-13-1	
3.207	3.207 (0.589)	151	401304	47.0071	47.007	80.00- 120.00	100.00
3.207	3.207 (0.589)	153	260753			33.63- 93.63	64.98
3.207	3.207 (0.589)	101	456036			73.82- 133.82	113.64
50 1,1-Dichloroethene						CAS #: 75-35-4	
3.235	3.235 (0.595)	98	123048	51.3173	51.317	80.00- 120.00	100.00
3.235	3.235 (0.595)	96	188154			130.56- 190.56	152.91
3.235	3.228 (0.595)	61	453281			327.82- 387.82	368.38
52 Acetone						CAS #: 67-64-1	
3.371	3.371 (0.620)	58	139691	55.1110	55.111	80.00- 120.00	100.00
3.371	3.371 (0.620)	43	569114			353.98- 413.98	407.41
56 Carbon Disulfide						CAS #: 75-15-0	
3.464	3.464 (0.637)	76	492329	45.7109	45.711	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0	
3.536	3.536 (0.650)	45	676706	61.5263	61.526	80.00- 120.00	100.00
3.536	3.543 (0.650)	43	138052			0.00- 50.28	20.40
3.536	3.543 (0.650)	59	19763			0.00- 33.15	2.92
58 3-Chloropropene						CAS #: 107-05-1	
3.708	3.708 (0.681)	76	79894	48.2996	48.300	80.00- 120.00	100.00
3.708	3.708 (0.681)	41	433395			425.37- 485.37	542.46
66 Methylene Chloride						CAS #: 75-09-2	
3.894	3.894 (0.716)	49	436912	60.1099	60.110	80.00- 120.00	100.00
3.894	3.894 (0.716)	84	170349			14.95- 74.95	38.99
3.894	3.894 (0.716)	51	133814			0.42- 60.42	30.63
72 Methyl tert-butyl ether						CAS #: 1634-04-4	
4.116	4.116 (0.756)	73	564653	50.4016	50.402	80.00- 120.00	100.00

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

   72 Methyl tert-butyl ether (continued)
  4.109   4.109 (0.755)    57    197732                     2.37-  62.37    35.02
  4.109   4.109 (0.755)    41    227277                     4.37-  64.37    40.25
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.138   4.138 (0.760)    98    110786 46.1367   46.137  80.00- 120.00   100.00
  4.138   4.138 (0.760)    61    346068                   269.90- 329.90   312.38
  4.138   4.131 (0.760)    96    176814                   127.45- 187.45   159.60
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.360   4.360 (0.801)    57    476833 56.7384   56.738  80.00- 120.00   100.00
  4.360   4.360 (0.801)    43    369525                    40.99- 100.99    77.50
  4.360   4.360 (0.801)    86     46689                     0.00-  40.81     9.79
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.625   4.625 (0.850)    63    469330 54.3291   54.329  80.00- 120.00   100.00
  4.625   4.625 (0.850)    65    132762                     0.00-  58.37    28.29
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.675   4.675 (0.859)    86     52188 50.9535   50.954  80.00- 120.00   100.00
  4.675   4.668 (0.859)    43   1050604                  1833.17-1893.17  2013.11
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.205   5.205 (0.957)    98    145485 59.4903   59.490  80.00- 120.00   100.00
  5.205   5.205 (0.957)    96    228319                   124.70- 184.70   156.94
  5.205   5.205 (0.957)    61    412360                   233.87- 293.87   283.44
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.234   5.234 (0.962)    72     97307 51.1962   51.196  80.00- 120.00   100.00
  5.234   5.234 (0.962)    43    724429                   611.89- 671.89   744.48
  5.234   5.234 (0.962)    57     45902                    17.72-  77.72    47.17
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                               CAS #: 109-99-9
  5.434   5.434 (0.999)    42    397349 60.4896   60.490  80.00- 120.00   100.00
  5.434   5.434 (0.999)    71     86526                     0.00-  53.97    21.78
  5.434   5.434 (0.999)    72     89654                     0.00-  55.92    22.56
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.506   5.506 (1.012)    83    433453 52.8993   52.899  80.00- 120.00   100.00
  5.506   5.499 (1.012)    85    273837                    35.28-  95.28    63.18
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.613   5.613 (1.032)    84    272314 51.6879   51.688  80.00- 120.00   100.00
  5.613   5.613 (1.032)    56    508453                   138.21- 198.21   186.72
  5.613   5.613 (1.032)    41    340734                    72.24- 132.24   125.13
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.628	5.628 (1.034)	97	472268	49.7059	49.706	80.00- 120.00	100.00
5.628	5.628 (1.034)	99	298885			33.83- 93.83	63.29
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.749	5.749 (1.057)	119	469887	47.0241	47.024	80.00- 120.00	100.00
5.742	5.749 (1.055)	117	495793			74.93- 134.93	105.51
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.950	5.950 (1.093)	57	1620304	57.0971	57.097	80.00- 120.00	100.00
5.950	5.950 (1.093)	56	551197			2.51- 62.51	34.02
5.950	5.950 (1.093)	41	523123			0.00- 58.92	32.29
116 Benzene					CAS #: 71-43-2		
5.964	5.964 (0.942)	78	591905	49.6680	49.668	80.00- 120.00	100.00
5.964	5.964 (0.942)	77	143275			0.00- 54.04	24.21
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.043	6.043 (0.955)	62	377928	53.0885	53.088	80.00- 120.00	100.00
6.043	6.043 (0.955)	64	111511			0.59- 60.59	29.51
121 Heptane					CAS #: 142-82-5		
6.122	6.122 (0.967)	71	222048	49.8652	49.865	80.00- 120.00	100.00
6.122	6.122 (0.967)	43	660051			231.64- 291.64	297.26
6.122	6.122 (0.967)	57	309903			103.28- 163.28	139.57
125 Trichloroethene					CAS #: 79-01-6		
6.530	6.530 (1.032)	95	274760	46.9548	46.955	80.00- 120.00	100.00
6.530	6.530 (1.032)	130	292655			82.18- 142.18	106.51
6.530	6.530 (1.032)	97	180563			33.62- 93.62	65.72
127 Methylcyclohexane					CAS #: 108-87-2		
6.630	6.630 (1.048)	83	386260	49.3492	49.349	80.00- 120.00	100.00
6.630	6.630 (1.048)	98	175786			16.98- 76.98	45.51
6.630	6.630 (1.048)	55	486267			83.20- 143.20	125.89
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.759	6.759 (1.068)	63	300707	52.6489	52.649	80.00- 120.00	100.00
6.759	6.759 (1.068)	62	222107			41.70- 101.70	73.86
6.759	6.759 (1.068)	41	229864			41.13- 101.13	76.44
136 1,4-Dioxane					CAS #: 123-91-1		
6.845	6.845 (1.081)	88	144601	48.4649	48.465	80.00- 120.00	100.00
6.845	6.845 (1.081)	58	145000			62.32- 122.32	100.28
6.845	6.845 (1.081)	57	50539			3.20- 63.20	34.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane						CAS #: 75-27-4	
6.981	6.981 (1.103)	83	491056	51.3937	51.394	80.00- 120.00	100.00
6.981	6.981 (1.103)	85	307687			35.75- 95.75	62.66
144 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.361	7.361 (1.163)	75	364977	45.9809	45.981	80.00- 120.00	100.00
7.361	7.361 (1.163)	77	115243			0.75- 60.75	31.58
7.361	7.361 (1.163)	39	321754			45.96- 105.96	88.16
145 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.476	7.476 (1.181)	58	277748	52.0189	52.019	80.00- 120.00	100.00
7.476	7.476 (1.181)	43	922123			264.26- 324.26	332.00
7.476	7.476 (1.181)	85	84931			3.08- 63.08	30.58
147 Toluene						CAS #: 108-88-3	
7.605	7.605 (1.201)	91	799408	48.7407	48.741	80.00- 120.00	100.00
7.605	7.605 (1.201)	92	451034			28.28- 88.28	56.42
150 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
7.834	7.834 (0.893)	75	354848	51.7381	51.738	80.00- 120.00	100.00
7.834	7.834 (0.893)	77	114141			0.54- 60.54	32.17
7.834	7.834 (0.893)	39	306449			41.71- 101.71	86.36
155 1,1,2-Trichloroethane						CAS #: 79-00-5	
7.991	7.991 (0.911)	97	274144	53.2884	53.288	80.00- 120.00	100.00
7.991	7.991 (0.911)	99	164654			33.23- 93.23	60.06
7.991	7.991 (0.911)	83	239845			57.40- 117.40	87.49
156 Tetrachloroethene						CAS #: 127-18-4	
8.042	8.042 (0.917)	166	438939	47.9758	47.976	80.00- 120.00	100.00
8.034	8.034 (0.916)	129	290861			34.91- 94.91	66.26
8.034	8.042 (0.916)	131	288194			34.35- 94.35	65.66
158 2-Hexanone						CAS #: 591-78-6	
8.163	8.163 (0.931)	58	392695	57.7526	57.752	80.00- 120.00	100.00
8.156	8.163 (0.930)	43	889370			175.82- 235.82	226.48
8.163	8.163 (0.931)	100	55246			0.00- 45.85	14.07
160 Dibromochloromethane						CAS #: 124-48-1	
8.299	8.307 (0.946)	129	540793	49.6587	49.659	80.00- 120.00	100.00
8.299	8.307 (0.946)	127	427653			48.31- 108.31	79.08
161 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.414	8.414 (0.959)	107	435396	52.1314	52.131	80.00- 120.00	100.00
8.414	8.414 (0.959)	109	413608			65.63- 125.63	95.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.801 (1.003)	112	661787	49.9668	49.967	80.00- 120.00	100.00
8.801	8.801 (1.003)	114	208161			1.89- 61.89	31.45
8.794	8.794 (1.002)	77	354011			22.59- 82.59	53.49
167 Ethyl Benzene					CAS #: 100-41-4		
8.851	8.851 (1.009)	106	335793	49.8461	49.846	80.00- 120.00	100.00
8.851	8.851 (1.009)	91	1071882			277.26- 337.26	319.21
169 m,p-Xylene					CAS #: 108-38-3		
8.944	8.951 (1.020)	106	423557	50.9777	50.978	80.00- 120.00	100.00
8.944	8.951 (1.020)	91	849842			167.63- 227.63	200.64
171 o-Xylene					CAS #: 95-47-6		
9.288	9.288 (1.059)	106	403493	52.3333	52.333	80.00- 120.00	100.00
9.288	9.288 (1.059)	91	865174			178.91- 238.91	214.42
172 Styrene					CAS #: 100-42-5		
9.309	9.309 (1.061)	104	676763	54.4536	54.454	80.00- 120.00	100.00
9.302	9.302 (1.060)	78	318200			15.94- 75.94	47.02
174 Bromoform					CAS #: 75-25-2		
9.503	9.496 (1.083)	173	849538	64.1340	64.134	80.00- 120.00	100.00
9.503	9.503 (1.083)	171	441189			21.13- 81.13	51.93
175 Cumene					CAS #: 98-82-8		
9.582	9.575 (1.092)	105	1288924	52.5184	52.518	80.00- 120.00	100.00
9.582	9.575 (1.092)	120	348756			0.00- 57.59	27.06
9.574	9.575 (1.091)	51	202708			0.00- 43.20	15.73
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.875 (1.127)	83	671429	54.0640	54.064	80.00- 120.00	100.00
9.882	9.875 (1.127)	85	434046			35.30- 95.30	64.65
182 Propylbenzene					CAS #: 103-65-1		
9.925	9.918 (1.131)	91	1588976	53.0490	53.049	80.00- 120.00	100.00
9.925	9.918 (1.131)	120	369724			0.00- 54.24	23.27
9.925	9.918 (1.131)	105	53988			0.00- 33.65	3.40
188 4-Ethyltoluene					CAS #: 622-96-8		
10.019	10.011 (1.142)	120	410043	51.4802	51.480	80.00- 120.00	100.00
10.019	10.011 (1.142)	105	1325446			283.78- 343.78	323.25
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.076	10.062 (1.149)	120	537083	50.2403	50.240	80.00- 120.00	100.00
10.076	10.062 (1.149)	105	1117715			172.79- 232.79	208.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.405	10.391 (1.186)	120	501598	51.8397	51.840	80.00- 120.00	100.00
10.405	10.391 (1.186)	105	1067329			186.10- 246.10	212.79
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.685	10.670 (1.218)	146	809031	48.4083	48.408	80.00- 120.00	100.00
10.685	10.670 (1.218)	148	520459			34.63- 94.63	64.33
10.685	10.670 (1.218)	111	302643			7.17- 67.17	37.41
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.771	10.749 (1.228)	146	827777	48.4843	48.484	80.00- 120.00	100.00
10.771	10.749 (1.228)	148	521316			33.55- 93.55	62.98
10.771	10.749 (1.228)	111	285992			4.50- 64.50	34.55
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.885	10.871 (1.241)	91	1130607	52.0568	52.057	80.00- 120.00	100.00
10.885	10.871 (1.241)	126	250403			0.00- 52.80	22.15
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.100	11.079 (1.265)	146	790117	49.3009	49.301	80.00- 120.00	100.00
11.100	11.079 (1.265)	148	500241			33.56- 93.56	63.31
11.100	11.079 (1.265)	111	301420			7.11- 67.11	38.15
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.511	12.476 (1.426)	180	804653	46.7487	46.749	80.00- 120.00	100.00
12.511	12.476 (1.426)	182	764859			66.05- 126.05	95.05
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.604	12.569 (1.437)	225	677560	43.8274	43.827	80.00- 120.00	100.00
12.604	12.569 (1.437)	223	429812			31.76- 91.76	63.44
228 Naphthalene					CAS #: 91-20-3		
12.776	12.741 (1.456)	128	113233	4.24144	4.241	80.00- 120.00	100.00
12.776	12.741 (1.456)	127	14587			0.00- 43.45	12.88

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p071904.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: jg
Method File: /var/chem/msdp.i/19jul16.b/p16q0407e.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 19-JUL-2016
Calibration Time: 11:28
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

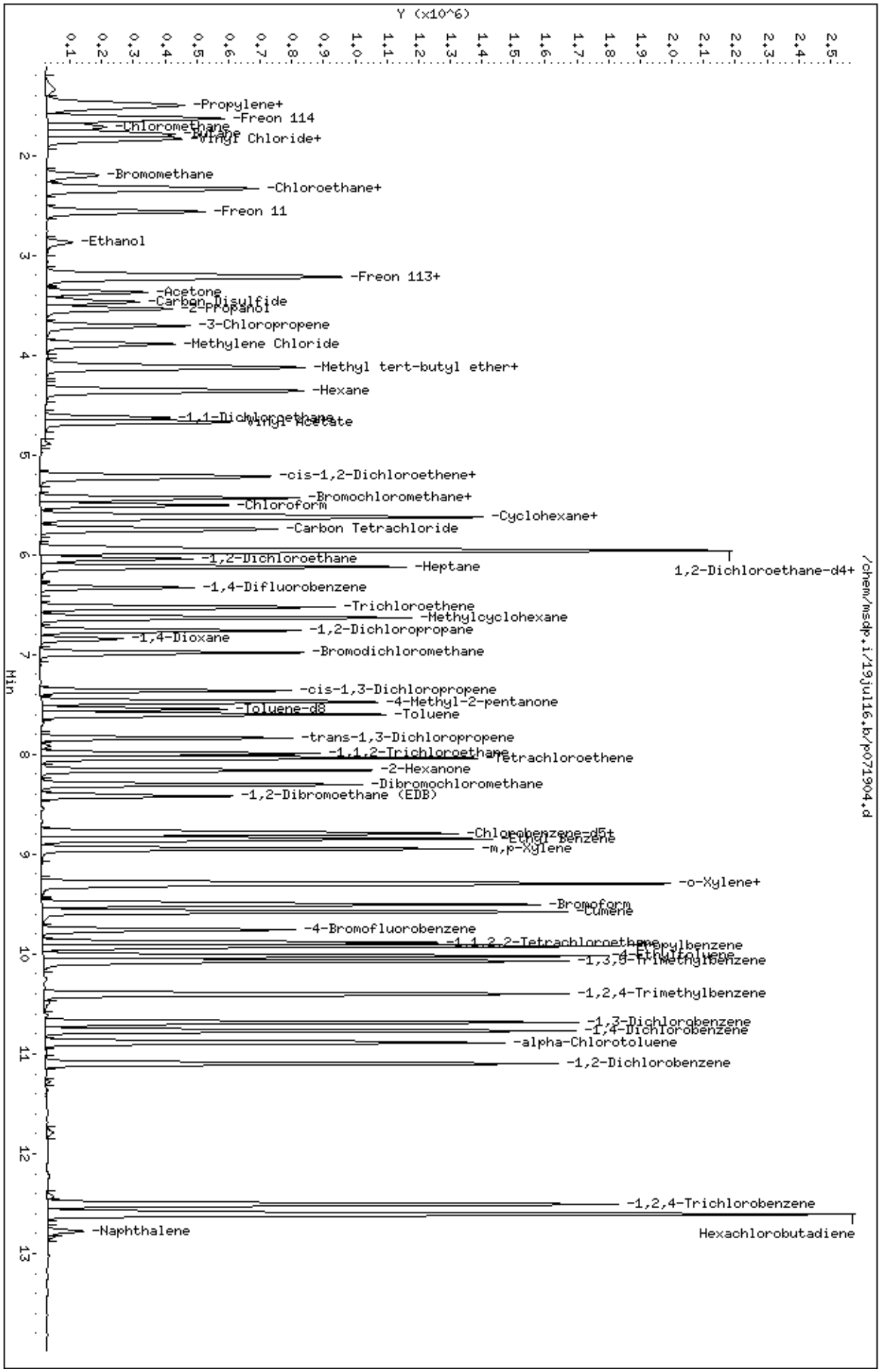
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	95264	57158	133370	94211	-1.11
123 1,4-Difluorobenze	379135	227481	530789	386638	1.98
163 Chlorobenzene-d5	348612	209167	488057	333654	-4.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.33	6.00	6.66	6.33	0.00
163 Chlorobenzene-d5	8.77	8.44	9.10	8.77	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/msdp.i/19jul16.b/p071904.d
Date : 19-JUL-2016 12:17
Client ID: LCSD
Sample Info: 50mL #2789-108
Column phase: RTX-624

Instrument: msdp.i
Operator: jg
Column diameter: 0.25



MSDP

BFB verification of 176/174 ratio: (111976/115016) *100= 97.33%			
*100	2789-205	Exp. Date:	9/29/2016
BCM	95,264		
1,4-DFB	379,135		
CB-d5	348,612		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	9.34 X 10-06
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

Verified CCV vs ICAL mid-point(-40%): jg

Method: P16Q0407E

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P071901	BFB Tune Check	2789-205	12	36ng	1.0mL	1.00	jg	jg	7/19/16	1016	jg	exp: 9/29/16
√	P071902	CCV	2789-84A	13	50ppbv(100ppbv)	100ml	1.00	jg	jg	7/19/16	1128	jg	exp. 7/19/16; 0 out
√	P071903	LCS	2789-208	14	50ppbv(200ppbv)	50ml	1.00	jg	jg	7/19/16	1152	jg	exp. 10/11/16; 2 out
√	P071904	LCSD	2789-208	14	50ppbv(200ppbv)	50ml	1.00	jg	jg	7/19/16	1217	jg	exp. 10/11/16
√	P071905	CCV sp	2789-115B	1	50ppbv(50ppbv)	200ml	1.00	jg	jg	7/19/16	1308	jg	AT1; exp. 8/4/16; 0 out
X	P071906	System Blank	33555	12	Humid	200ml	1.00	jg	jg	7/19/16	1343	jg	>RL
√	P071907	Lab Blank	33555	12	Humid	200ml	1.00	jg	jg	7/19/16	1417	jg	
√	P071908	1607173-04A	37823	2	6.5 Hg->14.3 psi	50ml	10.10	gh	jg	7/19/16	1540	gh	dil tc
√	P071909	1607173-05A	36399	3	5.9 Hg->15 psi	200ml	2.52	gh	jg	7/19/16	1606	gh	
√	P071910	1607260-01A	O0293	4	12.2 Hg->4.8 psi	200ml	2.24	gh	jg	7/19/16	1632	gh	
√	P071911	1607260-02A	6L1285	5	10.6 Hg->5.1 psi	200ml	2.08	gh	jg	7/19/16	1659	gh	
√	P071912	1607260-03A	O0113	6	15.9 Hg->4.5 psi	200ml	2.78	gh	jg	7/19/16	1725	gh	
√	P071913	1607260-04A	10782	7	10 Hg->5 psi	200ml	2.01	gh	jg	7/19/16	1751	gh	
√	P071914	1607260-05A	13673	8	3.1 Hg->4.9 psi	200ml	1.49	gh	jg	7/19/16	1817	gh	
√	P071915	1607260-06A	13861	9	7.1 Hg->5 psi	200ml	1.76	gh	jg	7/19/16	1844	gh	
√	P071916	1607260-07A	34742	10	2.8 Hg->5.2 psi	200ml	1.49	gh	jg	7/19/16	1910	gh	
√	P071917	1607260-08A	12071	1	11 Hg->4.6 psi	200ml	2.07	gh	gh	7/19/16	2125	gh	
√	P071918	1607260-09A	34414	2	6.9 Hg->5.3 psi	200ml	1.77	gh	gh	7/19/16	2152	gh	
√	P071919	1607260-10A	35287	3	9.8 Hg->5.2 psi	200ml	2.01	gh	gh	7/19/16	2218	gh	
√	P071920	1607235E-08A	36376	4	4.7 Hg->15.1 psi	200ml	2.40	gh	gh	7/19/16	2244	gd	
√	P071921	1607235E-09A	3043	5	4.7 Hg->14.8 psi	200ml	2.38	gd	gh	7/19/16	2310	gd	
√	P071922	1607235E-10A	8031	6	4.7 Hg->15.1 psi	200ml	2.40	gd	gh	7/19/16	2336	gd	
√	P071923	1607235E-11A	1025	7	5.5 Hg->15 psi	200ml	2.47	gd	gh	7/20/16	0003	gd	
√	P071924	1607235E-12A	36525	8	4.3 Hg->14.8 psi	200ml	2.34	gd	gh	7/20/16	0030	gd	
√	P071925	1607235E-13A	30832	9	4.5 Hg->15.1 psi	200ml	2.38	gd	gh	7/20/16	0057	gd	

7/20/16

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/07apr16.b/p040708.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-APR-2016 15:15
Operator : cb Inst ID: msdp.i
Smp Info : 1.0mL #2789-22; BFB; BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/07apr16.b/bfb30.m
Meth Date : 07-Apr-2016 09:09 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 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		
9.768	9.898	-0.130	95	158122			100.00- 100.00	94.62
9.768	9.898	-0.130	50	42594			8.00- 40.00	26.94
9.768	9.898	-0.130	75	76701			30.00- 66.00	48.51
9.768	9.898	-0.130	96	10300			5.00- 9.00	6.51
9.768	9.898	-0.130	173	1668			0.00- 1.99	1.00
9.768	9.898	-0.130	174	167104			50.01- 120.00	105.68
9.768	9.898	-0.130	175	12237			4.00- 9.00	7.32
9.768	9.898	-0.130	176	161792			93.00- 101.00	96.82
9.768	9.898	-0.130	177	10798			5.00- 9.00	6.67

Data File: /chem/msdp.i/07apr16.b/p040708.d

Date : 07-APR-2016 15:15

Client ID: BFB

Instrument: msdp.i

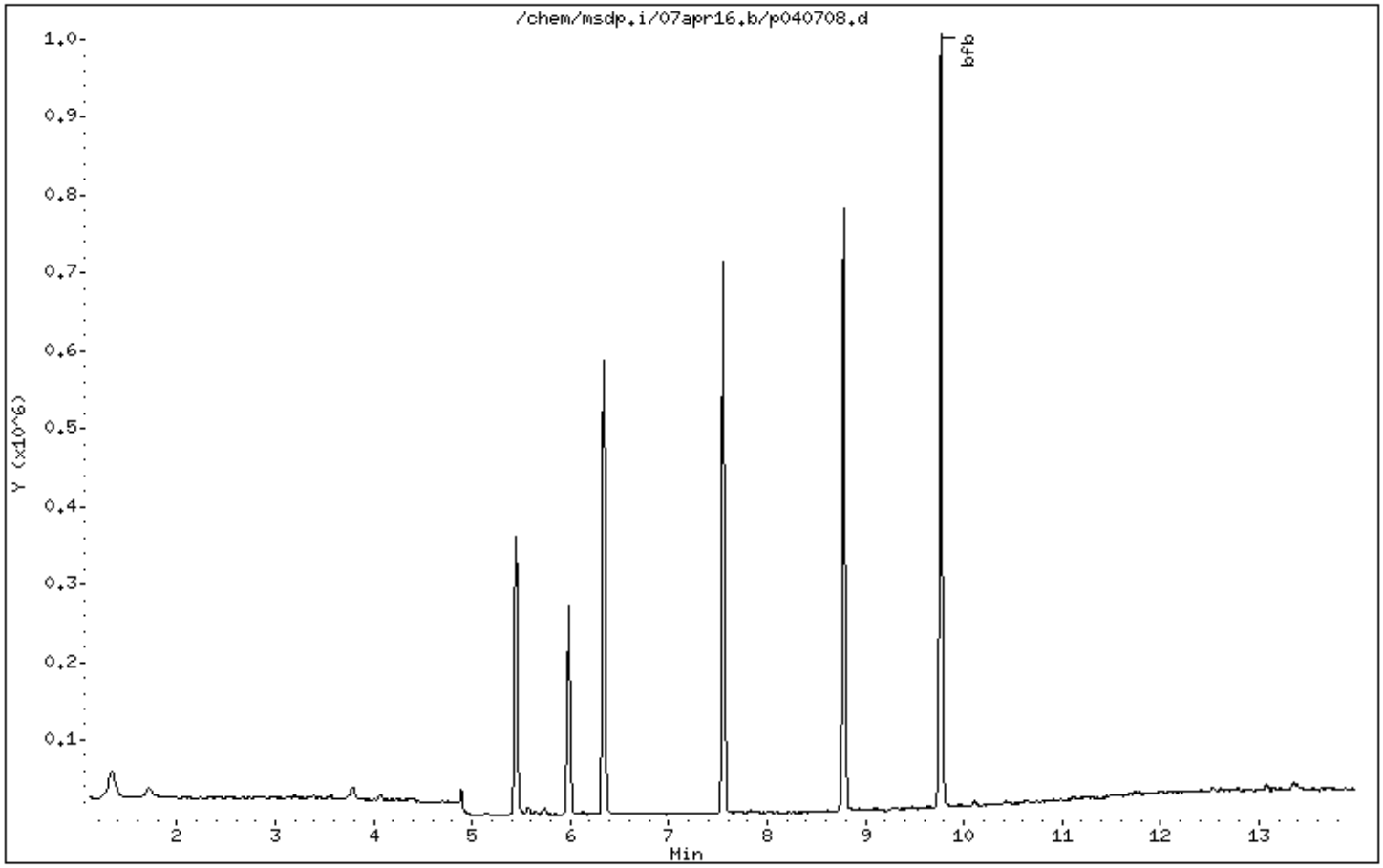
Sample Info: 1.0mL #2789-22; BFB; BFB

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/07apr16.b/p040708.d

Date : 07-APR-2016 15:15

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-22; BFB; BFB

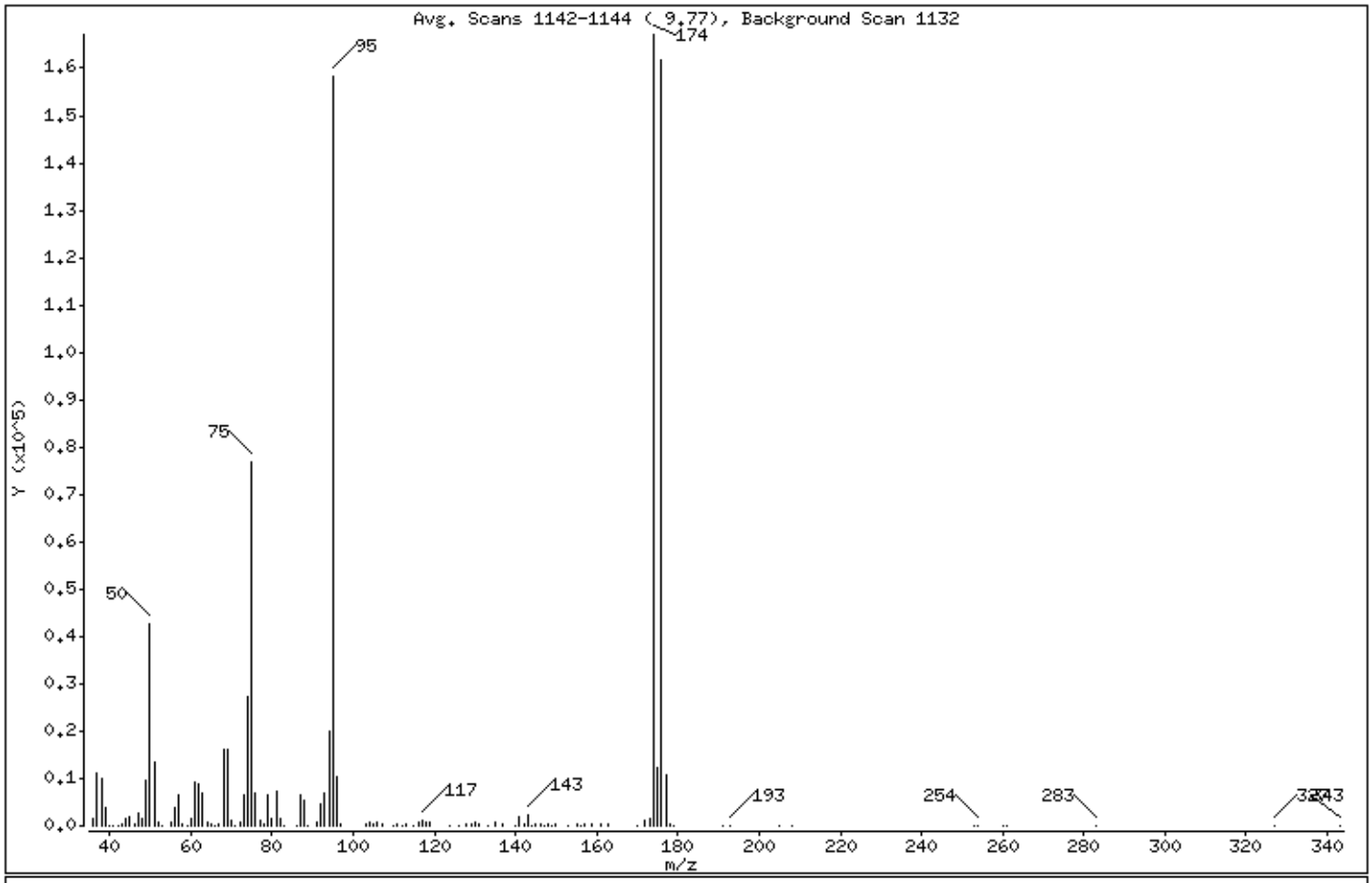
Volume Injected (uL): 1.0

Operator: cb

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	26.94
75	30.00 - 66.00% of mass 95	48.51
96	5.00 - 9.00% of mass 95	6.51
173	Less than 1.99% of mass 174	1.05 (1.00)
174	50.01 - 120.00% of mass 95	105.68
175	4.00 - 9.00% of mass 174	7.74 (7.32)
176	93.00 - 101.00% of mass 174	102.32 (96.82)
177	5.00 - 9.00% of mass 176	6.83 (6.67)

Data File: /chem/msdp.i/07apr16.b/p040708.d

Date : 07-APR-2016 15:15

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-22; BFB; BFB

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: p040708.d
Spectrum: Avg. Scans 1142-1144 (9.77), Background Scan 1132
Location of Maximum: 174.00
Number of points: 119

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1720	67.00	415	105.00	223	149.00	99
37.00	11122	68.00	16247	106.00	886	150.00	321
38.00	10081	69.00	16042	107.00	275	153.00	154
39.00	3980	70.00	1008	110.00	178	155.00	412
40.00	70	71.00	34	111.00	226	156.00	56
41.00	163	72.00	823	112.00	36	157.00	329
42.00	116	73.00	6666	113.00	212	159.00	285
43.00	292	74.00	27392	115.00	177	161.00	235
44.00	1647	75.00	76696	116.00	789	163.00	203
45.00	2022	76.00	7078	117.00	1308	170.00	164
46.00	219	77.00	1016	118.00	704	172.00	1056
47.00	2626	78.00	516	119.00	952	173.00	1668
48.00	1534	79.00	6527	124.00	159	174.00	167104
49.00	9451	80.00	1701	126.00	74	175.00	12237
50.00	42592	81.00	7220	128.00	443	176.00	161792
51.00	13289	82.00	1391	129.00	284	177.00	10798
52.00	641	83.00	133	130.00	684	178.00	254
53.00	109	86.00	135	131.00	365	179.00	43
55.00	690	87.00	6603	133.00	66	191.00	66
56.00	3682	88.00	5327	135.00	666	193.00	181
57.00	6649	89.00	122	137.00	289	205.00	38
58.00	194	91.00	848	140.00	124	208.00	96
59.00	150	92.00	4662	141.00	2071	253.00	28
60.00	1703	93.00	6773	142.00	256	254.00	181
61.00	9211	94.00	19976	143.00	2335	260.00	89
62.00	9001	95.00	158080	144.00	91	261.00	175
63.00	6954	96.00	10300	145.00	257	283.00	79
64.00	750	97.00	208	146.00	317	327.00	37
65.00	557	103.00	262	147.00	183	343.00	24
66.00	77	104.00	743	148.00	487		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/04may16.b/p050401.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 04-MAY-2016 08:59
Operator : gh Inst ID: msdp.i
Smp Info : 1.0mL #2789-99; BFB; BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/04may16.b/bfb30.m
Meth Date : 04-May-2016 09:21 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 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		
9.761	9.898	-0.137	95	162389			100.00- 100.00	96.41
9.761	9.898	-0.137	50	47034			8.00- 40.00	28.96
9.761	9.898	-0.137	75	81992			30.00- 66.00	50.49
9.761	9.898	-0.137	96	10534			5.00- 9.00	6.49
9.761	9.898	-0.137	173	1625			0.00- 1.99	0.96
9.761	9.898	-0.137	174	168432			50.01- 120.00	103.72
9.761	9.898	-0.137	175	12156			4.00- 9.00	7.22
9.761	9.898	-0.137	176	165320			93.00- 101.00	98.15
9.761	9.898	-0.137	177	11148			5.00- 9.00	6.74

Data File: /chem/msdp.i/04may16.b/p050401.d

Date : 04-MAY-2016 08:59

Client ID: BFB

Instrument: msdp.i

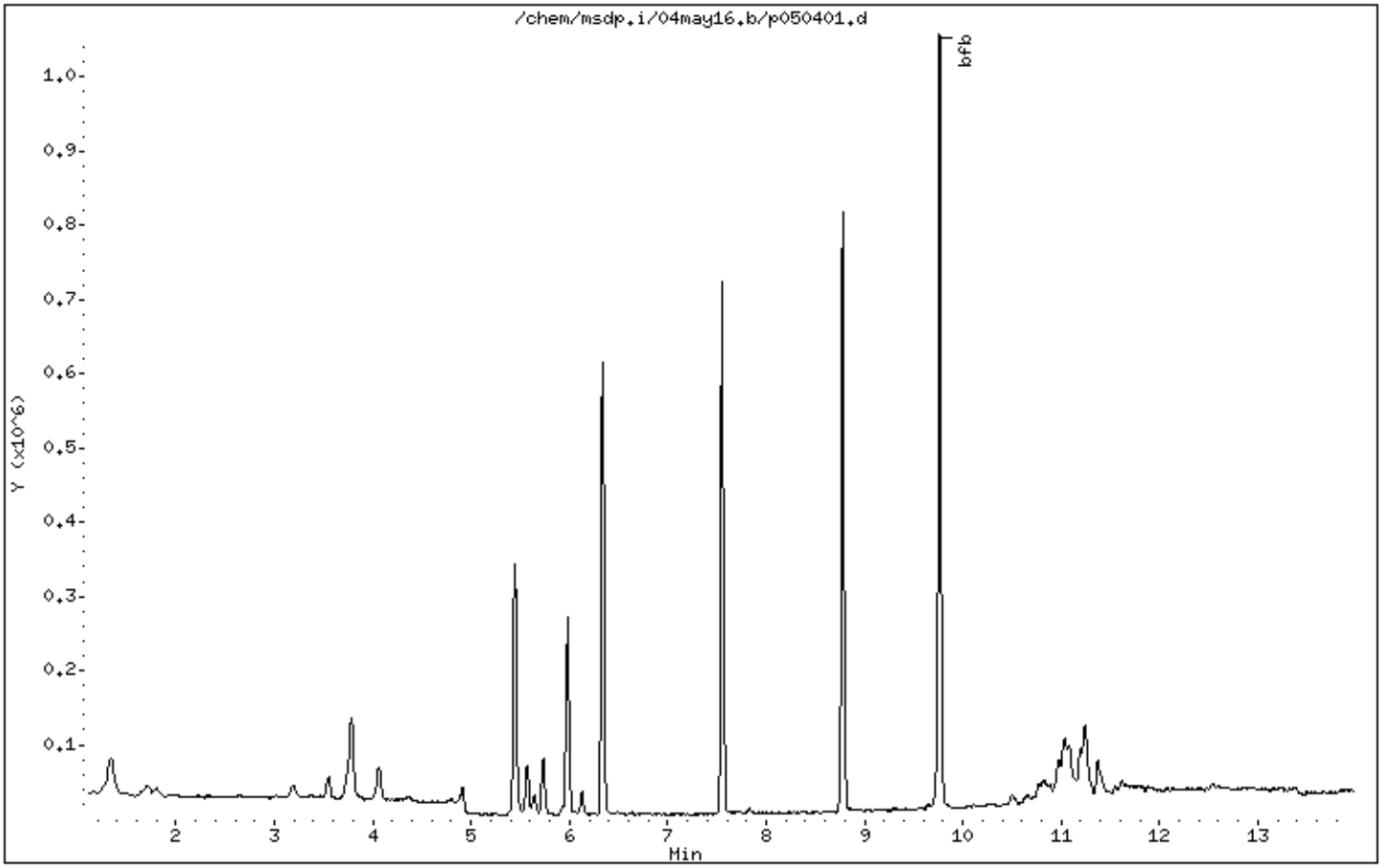
Sample Info: 1.0mL #2789-99; BFB; BFB

Volume Injected (uL): 1.0

Operator: gh

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/04may16.b/p050401.d

Date : 04-MAY-2016 08:59

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-99; BFB; BFB

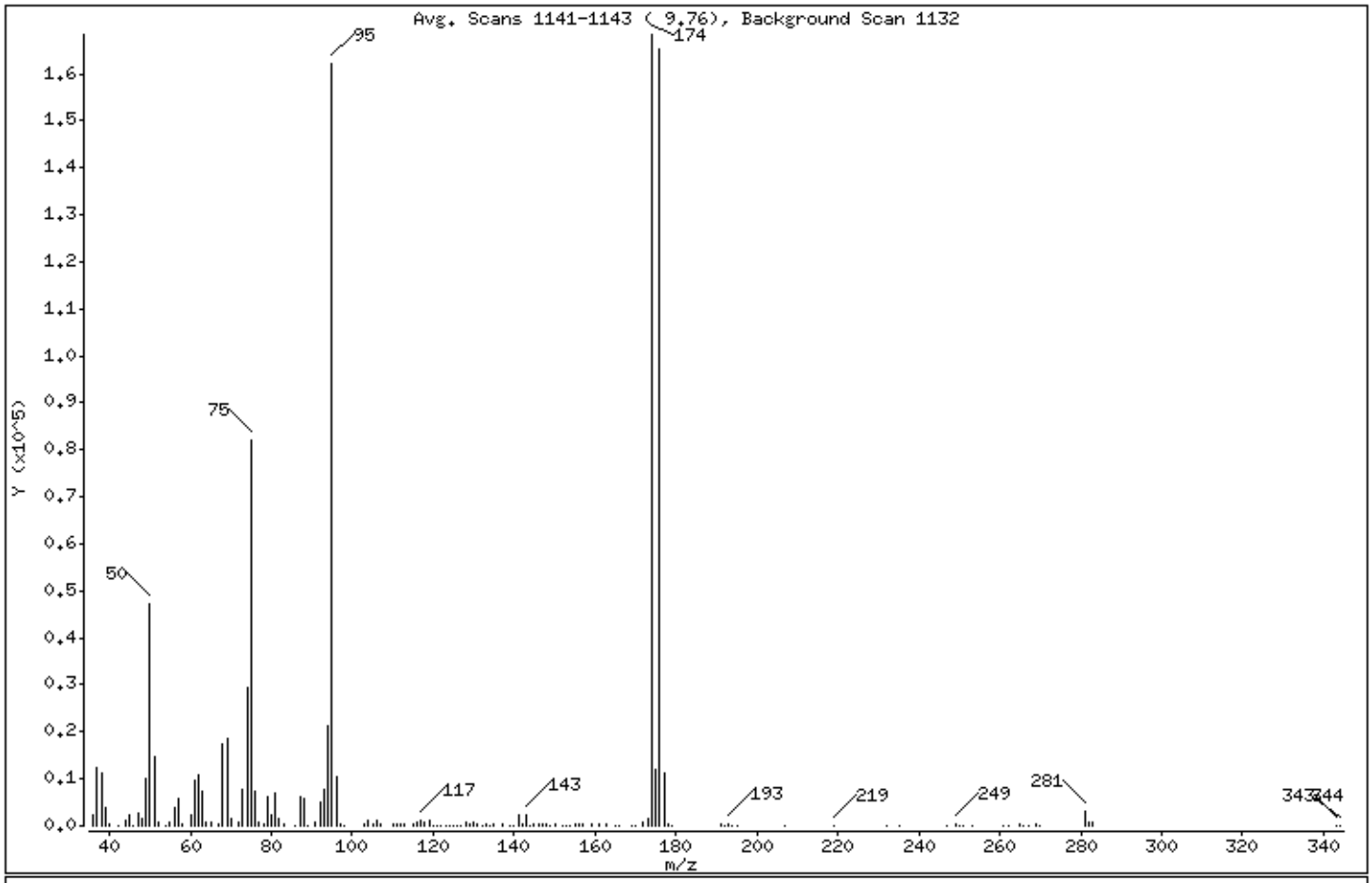
Volume Injected (uL): 1.0

Operator: gh

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	28.96
75	30.00 - 66.00% of mass 95	50.49
96	5.00 - 9.00% of mass 95	6.49
173	Less than 1.99% of mass 174	1.00 (0.96)
174	50.01 - 120.00% of mass 95	103.72
175	4.00 - 9.00% of mass 174	7.49 (7.22)
176	93.00 - 101.00% of mass 174	101.80 (98.15)
177	5.00 - 9.00% of mass 176	6.86 (6.74)

Data File: /chem/msdp.i/04may16.b/p050401.d

Date : 04-MAY-2016 08:59

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-99; BFB; BFB

Volume Injected (uL): 1.0

Operator: gh

Column phase:

Column diameter: 2.00

Data File: p050401.d
Spectrum: Avg. Scans 1141-1143 (9.76), Background Scan 1132
Location of Maximum: 174.00
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2444	79.00	6190	126.00	69	173.00	1625
37.00	12399	80.00	2192	127.00	46	174.00	168384
38.00	11132	81.00	7130	128.00	768	175.00	12156
39.00	3927	82.00	1552	129.00	408	176.00	165312
40.00	253	83.00	205	130.00	619	177.00	11148
42.00	2	86.00	159	131.00	290	178.00	371
44.00	1279	87.00	6106	132.00	76	179.00	85
45.00	2409	88.00	5935	133.00	385	191.00	233
46.00	103	89.00	137	134.00	38	192.00	87
47.00	2614	91.00	891	135.00	498	193.00	411
48.00	1552	92.00	4976	137.00	300	194.00	37
49.00	9904	93.00	7577	139.00	163	195.00	149
50.00	47032	94.00	21328	140.00	112	207.00	120
51.00	14783	95.00	162368	141.00	2228	219.00	135
52.00	736	96.00	10534	142.00	321	232.00	5
54.00	79	97.00	427	143.00	2277	235.00	34
55.00	613	98.00	37	144.00	94	247.00	120
56.00	3729	103.00	271	145.00	328	249.00	366
57.00	5745	104.00	977	146.00	292	250.00	49
58.00	244	105.00	580	147.00	248	251.00	189
60.00	2292	106.00	1012	148.00	403	253.00	90
61.00	9847	107.00	213	149.00	168	261.00	99
62.00	10943	110.00	239	150.00	311	262.00	134
63.00	7468	111.00	243	152.00	100	265.00	262
64.00	840	112.00	252	153.00	126	266.00	157
65.00	674	113.00	497	154.00	81	267.00	94
67.00	461	115.00	225	155.00	359	269.00	344
68.00	17544	116.00	915	156.00	269	270.00	106
69.00	18424	117.00	1297	157.00	415	281.00	3144
70.00	1641	118.00	801	159.00	329	282.00	902
72.00	880	119.00	1191	161.00	251	283.00	789
73.00	7683	120.00	89	163.00	224	343.00	130
74.00	29424	121.00	186	165.00	166	344.00	4
75.00	81992	122.00	131	166.00	34		
76.00	7258	123.00	34	169.00	77		

Data File: /chem/msdp.i/04may16.b/p050401.d

Date : 04-MAY-2016 08:59

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-99; BFB; BFB

Volume Injected (uL): 1.0

Operator: gh

Column phase:

Column diameter: 2.00

Data File: p050401.d
Spectrum: Avg. Scans 1141-1143 (9.76), Background Scan 1132
Location of Maximum: 174.00
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	724	124.00	166	170.00	180		
78.00	576	125.00	127	172.00	962		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/12may16.b/p051201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-MAY-2016 09:31
Operator : jg Inst ID: msdp.i
Smp Info : 1.0mL #2789-99; BFB; BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/12may16.b/bfb30.m
Meth Date : 12-May-2016 09:54 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 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	
9.761	9.898	-0.137	95	139936			100.00- 100.00	95.13
9.761	9.898	-0.137	50	43306			8.00- 40.00	30.95
9.761	9.898	-0.137	75	73693			30.00- 66.00	52.66
9.761	9.898	-0.137	96	8996			5.00- 9.00	6.43
9.761	9.898	-0.137	173	1306			0.00- 1.99	0.89
9.761	9.898	-0.137	174	147101			50.01- 120.00	105.12
9.761	9.898	-0.137	175	10503			4.00- 9.00	7.14
9.761	9.898	-0.137	176	142336			93.00- 101.00	96.76
9.761	9.898	-0.137	177	9214			5.00- 9.00	6.47

Data File: /chem/msdp.i/12may16.b/p051201.d

Date : 12-MAY-2016 09:31

Client ID: BFB

Instrument: msdp.i

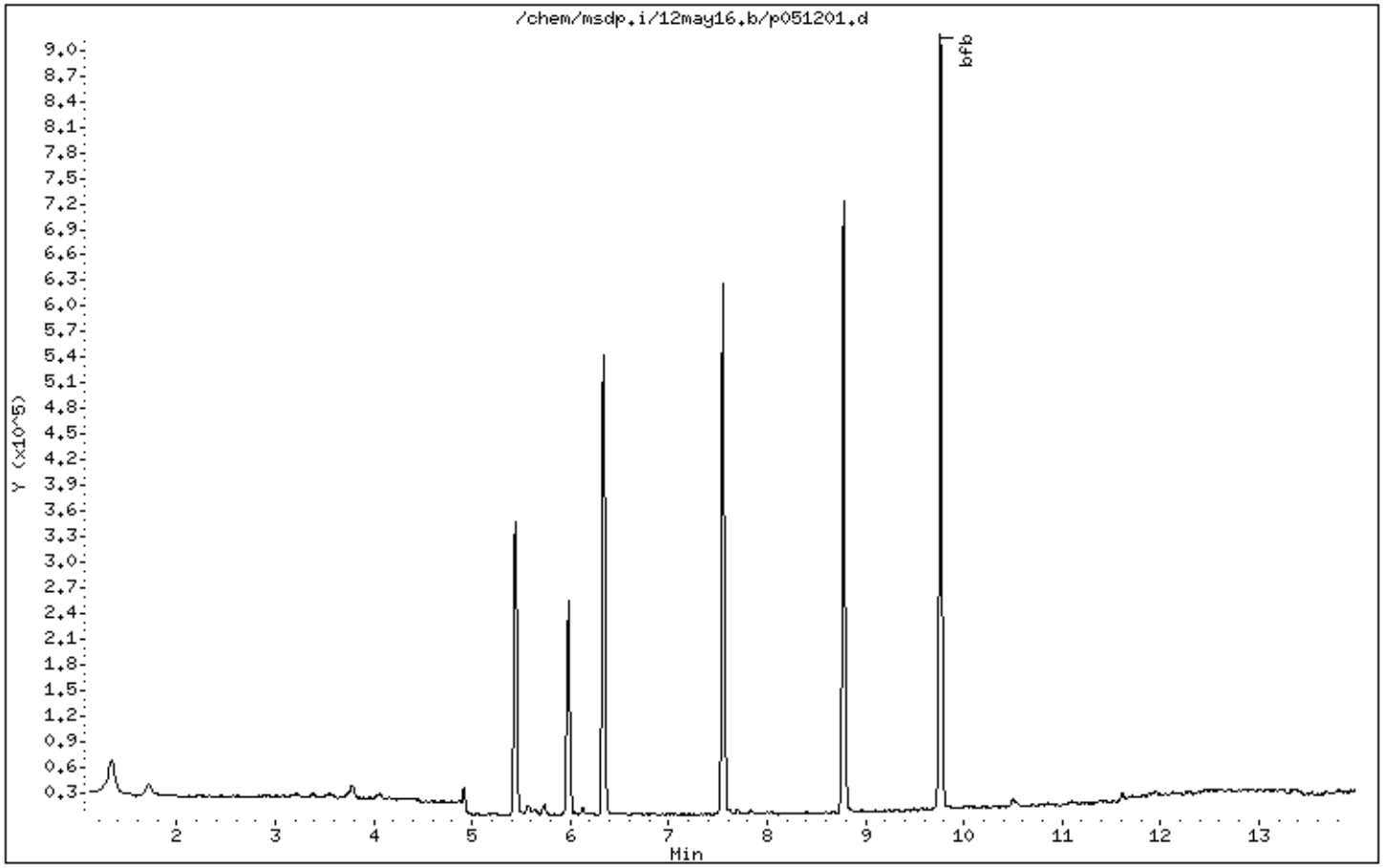
Sample Info: 1.0mL #2789-99; BFB; BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/12may16.b/p051201.d

Date : 12-MAY-2016 09:31

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-99; BFB; BFB

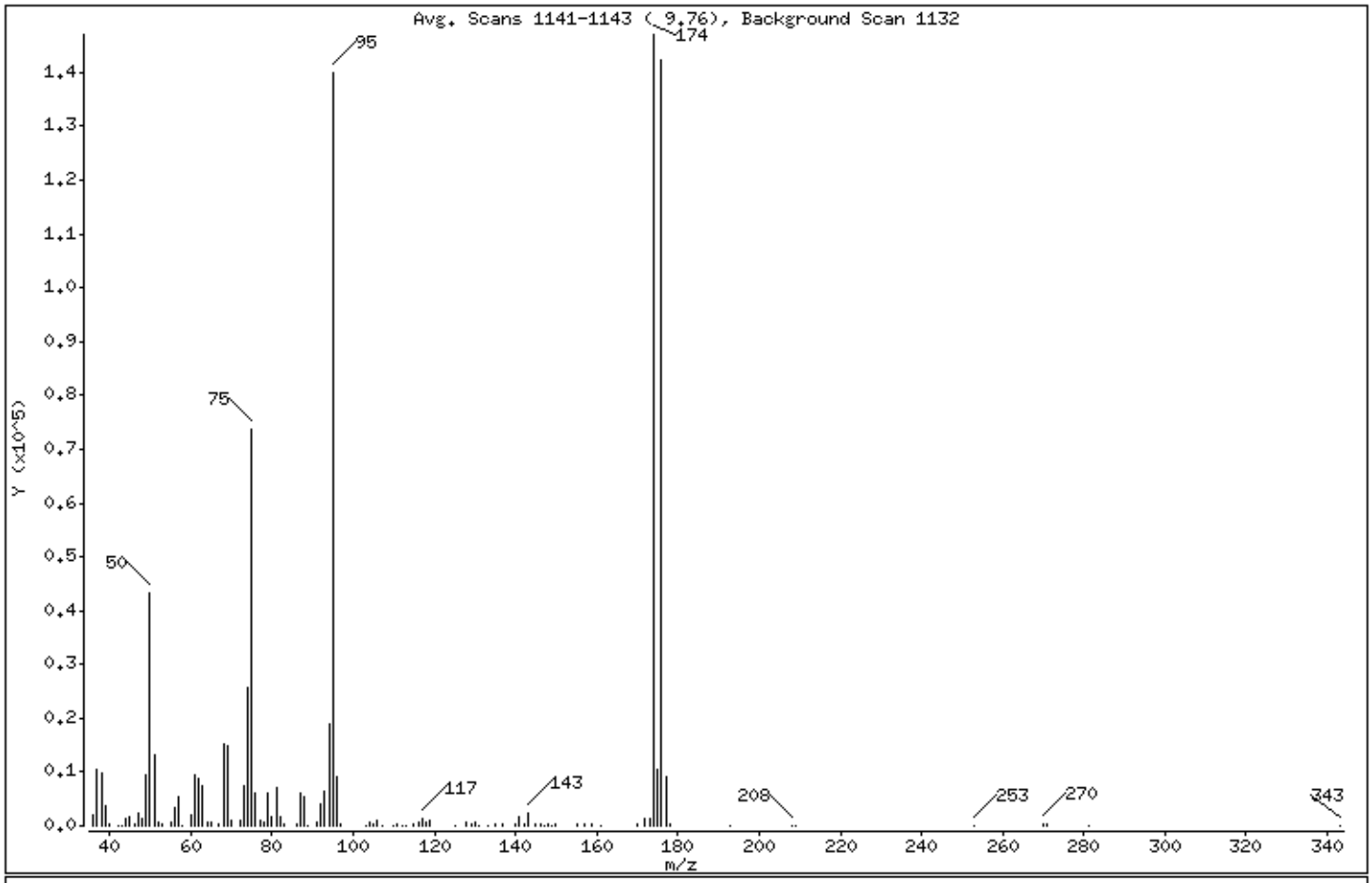
Volume Injected (uL): 1.0

Operator: jg

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	30.95
75	30.00 - 66.00% of mass 95	52.66
96	5.00 - 9.00% of mass 95	6.43
173	Less than 1.99% of mass 174	0.93 (0.89)
174	50.01 - 120.00% of mass 95	105.12
175	4.00 - 9.00% of mass 174	7.51 (7.14)
176	93.00 - 101.00% of mass 174	101.72 (96.76)
177	5.00 - 9.00% of mass 176	6.58 (6.47)

Data File: /chem/msdp.i/12may16.b/p051201.d

Date : 12-MAY-2016 09:31

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-99; BFB; BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00

Data File: p051201.d
Spectrum: Avg. Scans 1141-1143 (9.76), Background Scan 1132
Location of Maximum: 174.00
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1860	67.00	401	103.00	149	146.00	289
37.00	10314	68.00	15323	104.00	828	147.00	124
38.00	9872	69.00	15039	105.00	365	148.00	423
39.00	3568	70.00	1065	106.00	919	149.00	140
40.00	181	72.00	900	107.00	83	150.00	206
42.00	15	73.00	7505	110.00	94	155.00	474
43.00	58	74.00	25704	111.00	291	157.00	300
44.00	1223	75.00	73688	112.00	152	159.00	178
45.00	1677	76.00	6220	113.00	83	161.00	79
46.00	291	77.00	986	115.00	184	170.00	195
47.00	2453	78.00	568	116.00	663	172.00	1254
48.00	1504	79.00	5953	117.00	1350	173.00	1306
49.00	9525	80.00	1724	118.00	699	174.00	147072
50.00	43304	81.00	6991	119.00	945	175.00	10503
51.00	13232	82.00	1719	125.00	96	176.00	142336
52.00	724	83.00	217	128.00	609	177.00	9214
53.00	293	86.00	269	129.00	396	178.00	374
55.00	590	87.00	6022	130.00	572	193.00	44
56.00	3447	88.00	5401	131.00	166	208.00	101
57.00	5560	89.00	146	133.00	52	209.00	91
58.00	130	91.00	584	135.00	493	253.00	161
60.00	1968	92.00	4112	137.00	292	270.00	180
61.00	9470	93.00	6393	140.00	201	271.00	178
62.00	8653	94.00	19008	141.00	1555	281.00	75
63.00	7324	95.00	139904	142.00	222	343.00	41
64.00	731	96.00	8996	143.00	2275		
65.00	703	97.00	214	145.00	239		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/16jun16.b/p061601.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-JUN-2016 08:39
Operator : jg Inst ID: msdp.i
Smp Info : 1.0mL #2789-163; BFB; BFB
Misc Info : 36ng exp. 9/1/16
Comment :
Method : /var/chem/msdp.i/16jun16.b/bfb30.m
Meth Date : 16-Jun-2016 09:02 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 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		
9.761	9.898	-0.137	95	128176			100.00- 100.00	94.12
9.761	9.898	-0.137	50	43352			8.00- 40.00	33.82
9.761	9.898	-0.137	75	69005			30.00- 66.00	53.84
9.761	9.898	-0.137	96	8264			5.00- 9.00	6.45
9.761	9.898	-0.137	173	1676			0.00- 1.99	1.23
9.761	9.898	-0.137	174	136186			50.01- 120.00	106.25
9.761	9.898	-0.137	175	8976			4.00- 9.00	6.59
9.761	9.898	-0.137	176	129613			93.00- 101.00	95.17
9.761	9.898	-0.137	177	7936			5.00- 9.00	6.12

Data File: /chem/msdp.i/16jun16.b/p061601.d

Date : 16-JUN-2016 08:39

Client ID: BFB

Instrument: msdp.i

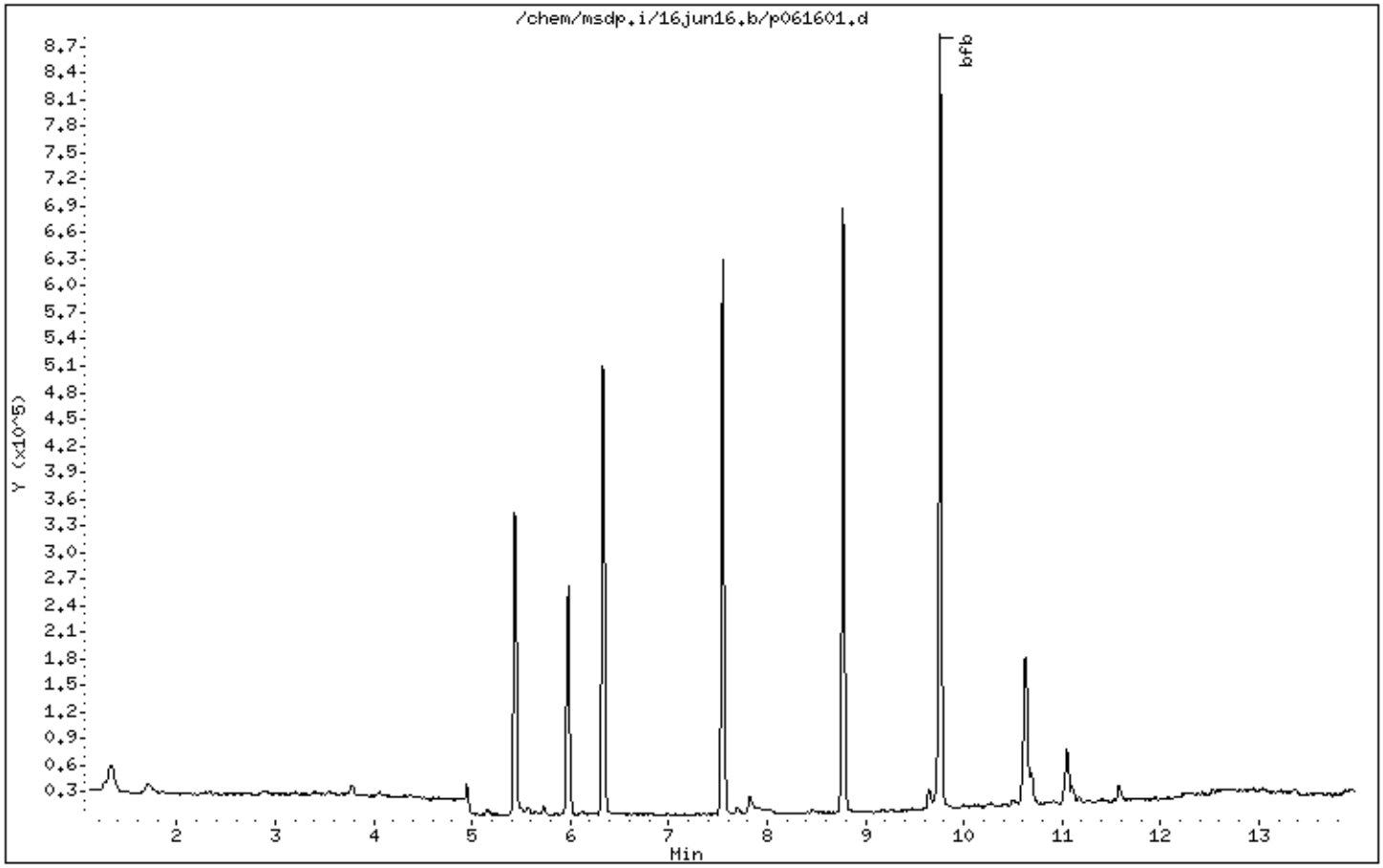
Sample Info: 1.0mL #2789-163; BFB; BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/16jun16.b/p061601.d

Date : 16-JUN-2016 08:39

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-163; BFB; BFB

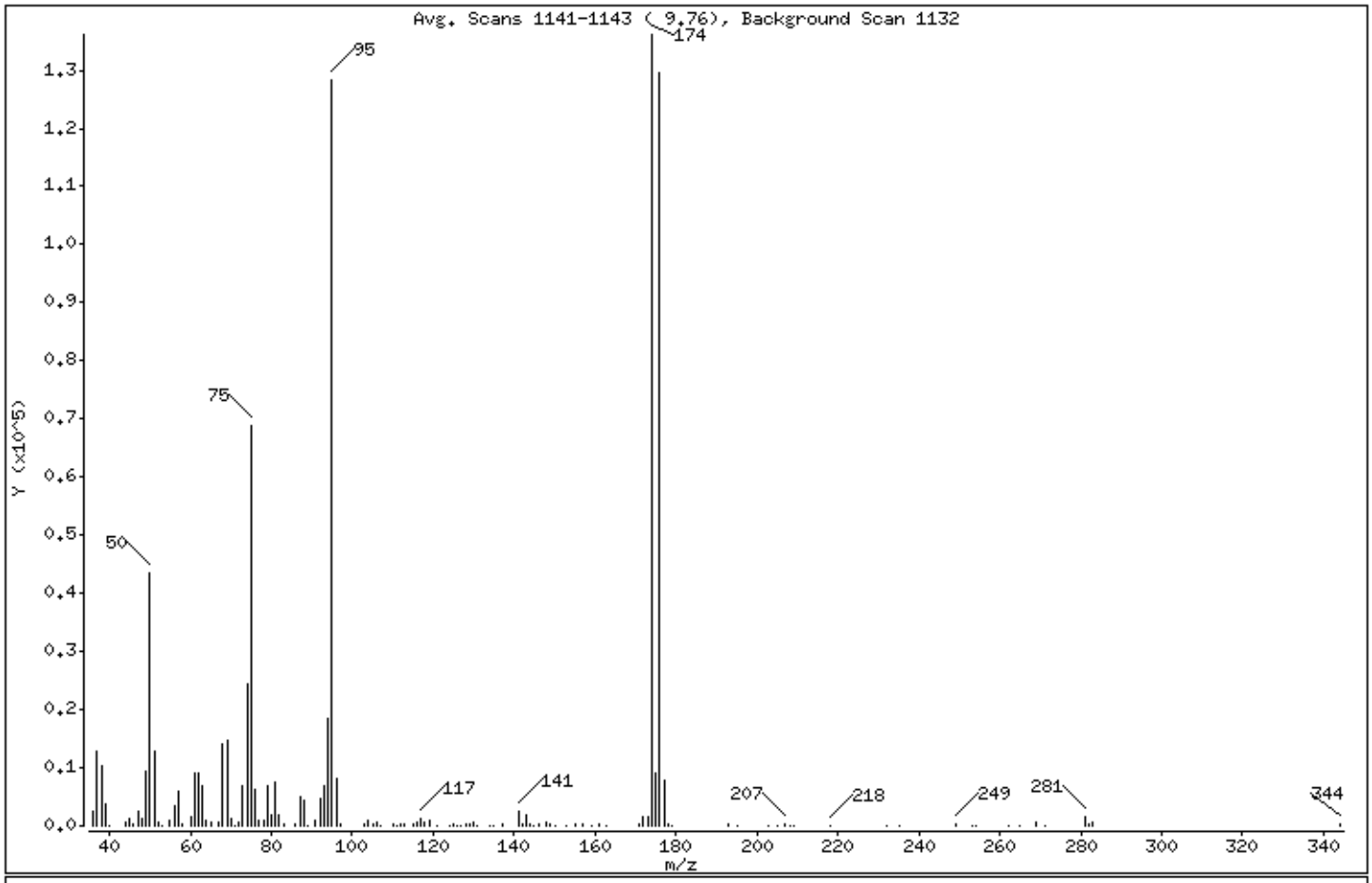
Volume Injected (uL): 1.0

Operator: jg

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	33.82
75	30.00 - 66.00% of mass 95	53.84
96	5.00 - 9.00% of mass 95	6.45
173	Less than 1.99% of mass 174	1.31 (1.23)
174	50.01 - 120.00% of mass 95	106.25
175	4.00 - 9.00% of mass 174	7.00 (6.59)
176	93.00 - 101.00% of mass 174	101.12 (95.17)
177	5.00 - 9.00% of mass 176	6.19 (6.12)

Data File: /chem/msdp.i/16jun16.b/p061601.d

Date : 16-JUN-2016 08:39

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-163; BFB; BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00

Data File: p061601.d
Spectrum: Avg. Scans 1141-1143 (9.76), Background Scan 1132
Location of Maximum: 174.00
Number of points: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2452	74.00	24328	117.00	1342	173.00	1676
37.00	12722	75.00	69000	118.00	659	174.00	136128
38.00	10462	76.00	6145	119.00	1059	175.00	8976
39.00	3879	77.00	1051	121.00	84	176.00	129608
40.00	49	78.00	802	124.00	36	177.00	7936
44.00	777	79.00	6967	125.00	257	178.00	297
45.00	1335	80.00	1998	126.00	88	179.00	72
46.00	226	81.00	7396	127.00	60	193.00	234
47.00	2350	82.00	1892	128.00	436	195.00	114
48.00	1113	83.00	174	129.00	177	203.00	35
49.00	9496	86.00	173	130.00	565	205.00	90
50.00	43352	87.00	4918	131.00	131	207.00	305
51.00	12820	88.00	4379	134.00	37	208.00	41
52.00	494	89.00	147	135.00	146	209.00	77
53.00	55	91.00	987	137.00	179	218.00	97
55.00	792	92.00	4621	141.00	2494	232.00	63
56.00	3504	93.00	6849	142.00	181	235.00	46
57.00	6068	94.00	18360	143.00	1905	249.00	304
58.00	291	95.00	128176	144.00	265	253.00	124
60.00	1685	96.00	8264	145.00	122	254.00	32
61.00	8995	97.00	367	146.00	339	262.00	35
62.00	9000	103.00	199	148.00	477	265.00	131
63.00	6865	104.00	865	149.00	272	269.00	514
64.00	857	105.00	349	150.00	117	271.00	82
65.00	528	106.00	762	153.00	40	281.00	1553
67.00	482	107.00	43	155.00	336	282.00	283
68.00	14004	110.00	185	157.00	239	283.00	495
69.00	14750	111.00	142	159.00	132	344.00	216
70.00	1249	112.00	171	161.00	297		
71.00	108	113.00	296	163.00	125		
72.00	525	115.00	193	171.00	240		
73.00	6975	116.00	665	172.00	1554		

Eurofins Air Toxics Inc.

Data file : /chem/msdp.i/17jun16.b/p061701.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-JUN-2016 07:46
Operator : jg Inst ID: msdp.i
Smp Info : 1.0mL #2789-163; BFB; BFB
Misc Info : 36ng exp. 9/1/16
Comment :
Method : /var/chem/msdp.i/17jun16.b/bfb30.m
Meth Date : 17-Jun-2016 08:09 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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	
9.761	9.898	-0.137	95	110488			100.00- 100.00	85.88
9.761	9.898	-0.137	50	35592			8.00- 40.00	32.21
9.761	9.898	-0.137	75	58552			30.00- 66.00	52.99
9.761	9.898	-0.137	96	6971			5.00- 9.00	6.31
9.761	9.898	-0.137	173	1234			0.00- 1.99	0.96
9.761	9.898	-0.137	174	128648			50.01- 120.00	116.44
9.761	9.898	-0.137	175	9069			4.00- 9.00	7.05
9.761	9.898	-0.137	176	121880			93.00- 101.00	94.74
9.761	9.898	-0.137	177	7446			5.00- 9.00	6.11

Data File: /chem/msdp.i/17jun16.b/p061701.d

Date : 17-JUN-2016 07:46

Client ID: BFB

Instrument: msdp.i

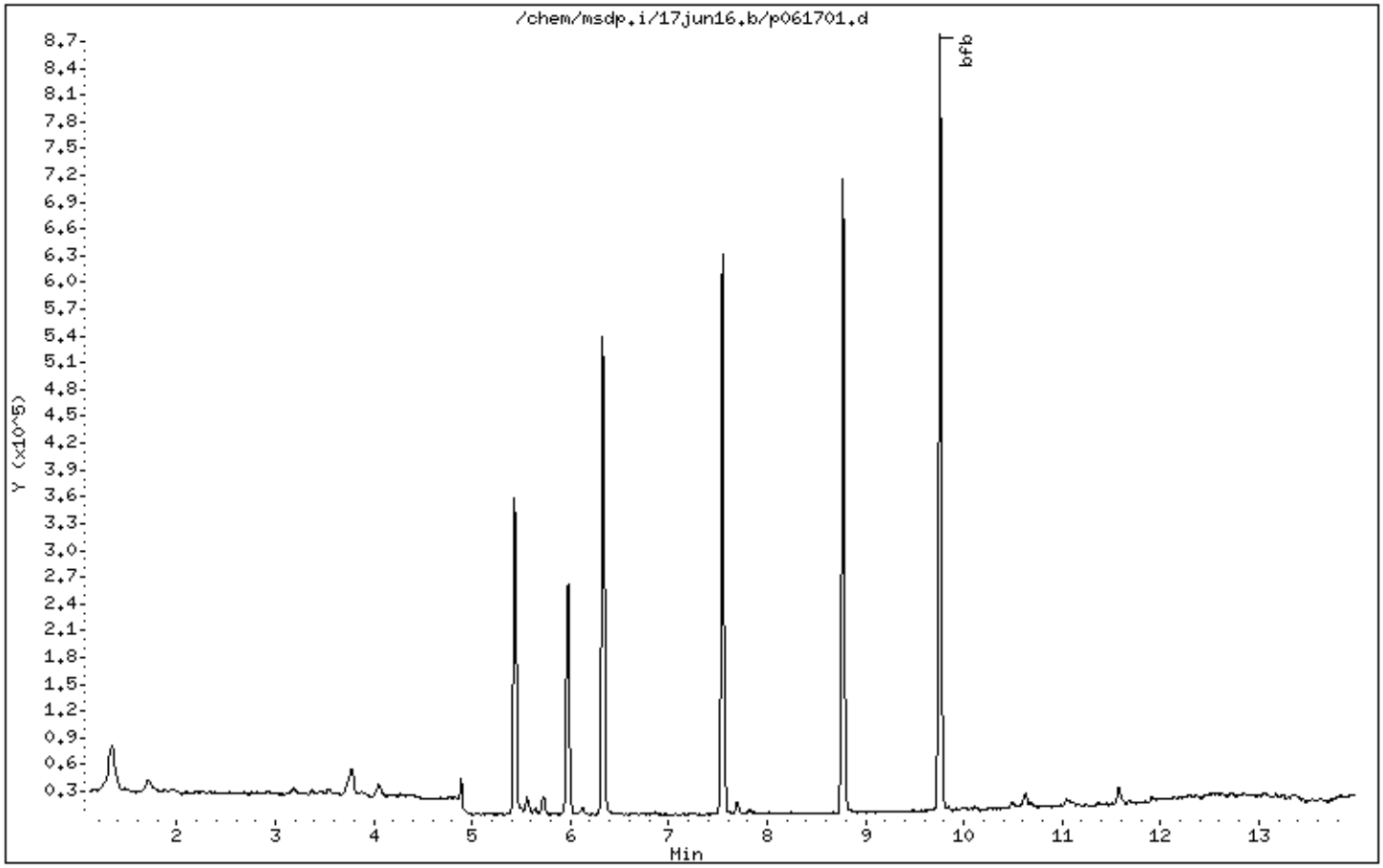
Sample Info: 1.0mL #2789-163; BFB; BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/17jun16.b/p061701.d

Date : 17-JUN-2016 07:46

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-163; BFB; BFB

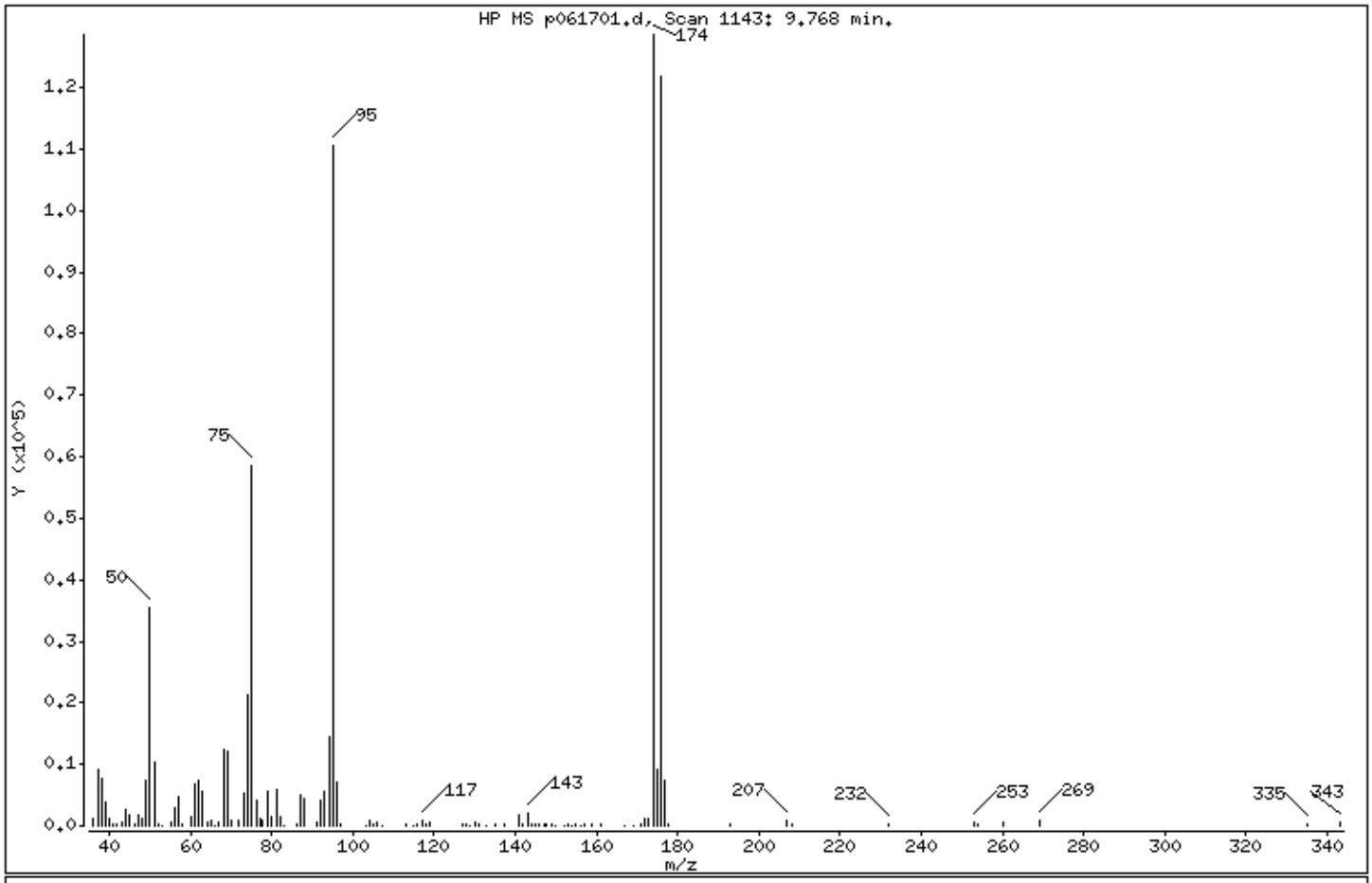
Volume Injected (uL): 1.0

Operator: jg

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	32.21
75	30.00 - 66.00% of mass 95	52.99
96	5.00 - 9.00% of mass 95	6.31
173	Less than 1.99% of mass 174	1.12 (0.96)
174	50.01 - 120.00% of mass 95	116.44
175	4.00 - 9.00% of mass 174	8.21 (7.05)
176	93.00 - 101.00% of mass 174	110.31 (94.74)
177	5.00 - 9.00% of mass 176	6.74 (6.11)

Data File: /chem/msdp.i/17jun16.b/p061701.d

Date : 17-JUN-2016 07:46

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0mL #2789-163; BFB; BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00

Data File: p061701.d
Spectrum: HP MS p061701.d, Scan 1143: 9.768 min.
Location of Maximum: 173.90
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1234	67.00	509	105.90	633	154.90	353
37.10	9052	68.00	12556	107.10	144	156.00	145
38.10	7819	69.00	12144	112.90	279	157.00	300
39.10	3970	70.00	896	114.90	115	158.70	150
40.00	1097	72.00	823	115.90	442	161.10	271
41.00	344	73.00	5444	117.00	907	167.00	100
41.90	232	74.00	21312	117.90	420	169.00	117
42.90	445	75.00	58552	119.00	729	171.00	160
44.00	2590	76.10	4185	126.90	265	171.90	1121
45.00	1820	77.00	1128	127.90	248	172.90	1234
46.10	180	77.80	785	128.90	119	173.90	128648
47.00	1643	78.90	5589	129.90	678	175.00	9069
48.00	1086	79.90	1560	130.90	263	176.00	121880
49.00	7379	81.00	6019	132.90	106	176.90	7446
50.00	35592	81.90	1446	135.00	326	177.80	323
51.00	10299	83.00	114	137.10	217	193.00	219
51.90	410	86.10	255	140.90	1847	206.90	855
53.00	127	87.00	5102	141.80	188	208.00	226
55.00	649	88.00	4517	142.90	2011	232.10	225
56.00	3079	91.10	691	144.00	163	253.10	549
57.00	4758	92.00	3997	144.90	165	254.00	161
58.00	407	93.00	5584	146.00	262	260.20	482
60.00	1415	94.10	14524	147.00	263	269.00	881
61.00	6926	95.00	110488	147.80	198	335.10	151
62.00	7254	96.00	6971	148.90	275	343.10	465
63.00	5698	96.90	153	149.80	143		
64.00	612	103.00	100	151.90	104		
65.10	811	104.00	837	153.00	185		
65.80	131	105.10	318	154.10	122		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/12jul16.b/p071201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-JUL-2016 08:06
Operator : jg Inst ID: msdp.i
Smp Info : 50ml #2789-205;BFB;BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/12jul16.b/bfb30.m
Meth Date : 12-Jul-2016 08:30 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 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		
9.761	9.898	-0.137	95	117306			100.00- 100.00	96.46
9.761	9.898	-0.137	50	38706			8.00- 40.00	33.00
9.761	9.898	-0.137	75	59881			30.00- 66.00	51.05
9.761	9.898	-0.137	96	7547			5.00- 9.00	6.43
9.761	9.898	-0.137	173	1184			0.00- 1.99	0.97
9.761	9.898	-0.137	174	121613			50.01- 120.00	103.67
9.761	9.898	-0.137	175	8188			4.00- 9.00	6.73
9.761	9.898	-0.137	176	118194			93.00- 101.00	97.19
9.761	9.898	-0.137	177	8287			5.00- 9.00	7.01

Data File: /var/chem/msdp.i/12jul16.b/p071201.d

Date : 12-JUL-2016 08:06

Client ID: BFB

Instrument: msdp.i

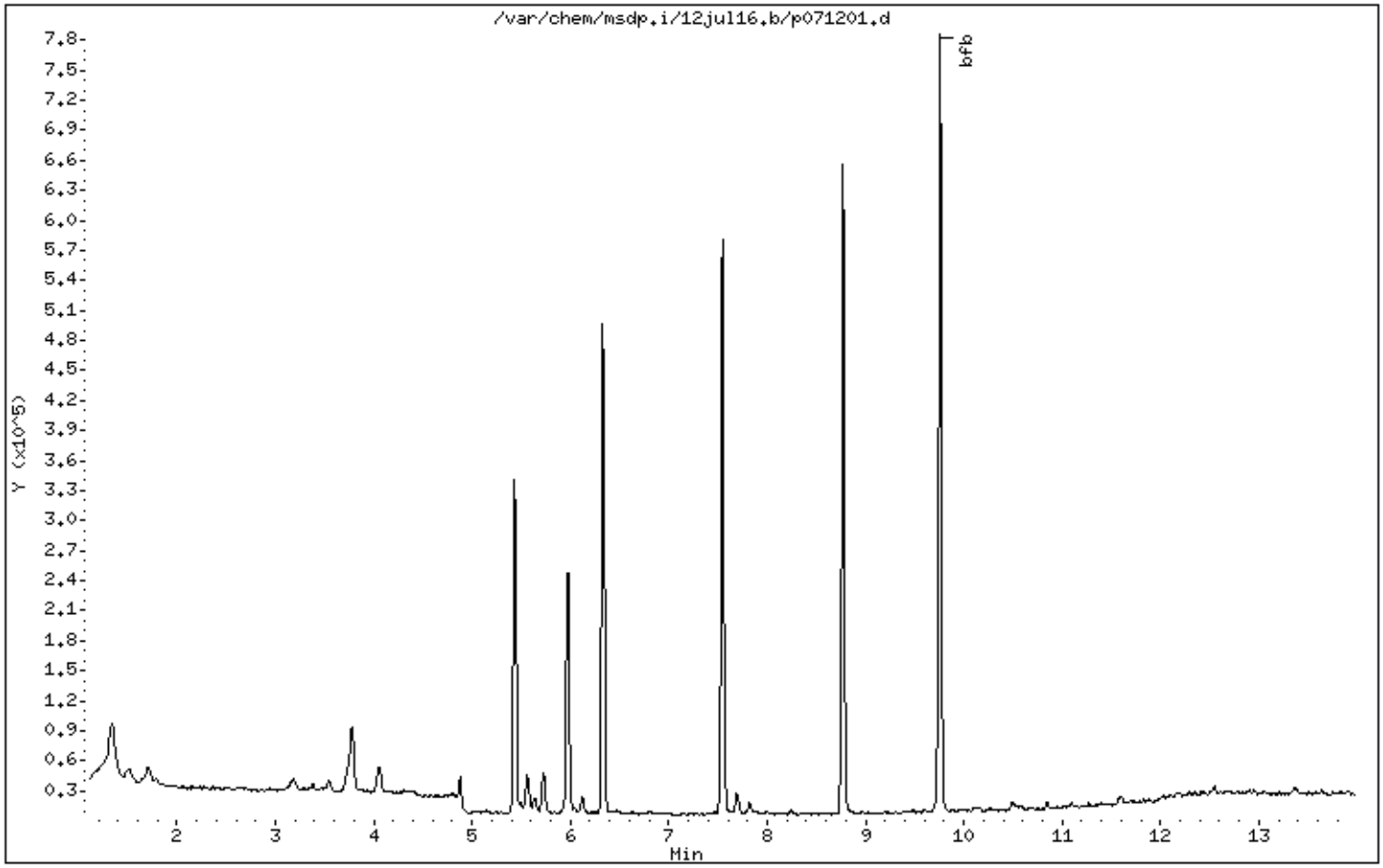
Sample Info: 50ml #2789-205;BFB;BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdp.i/12jul16.b/p071201.d

Date : 12-JUL-2016 08:06

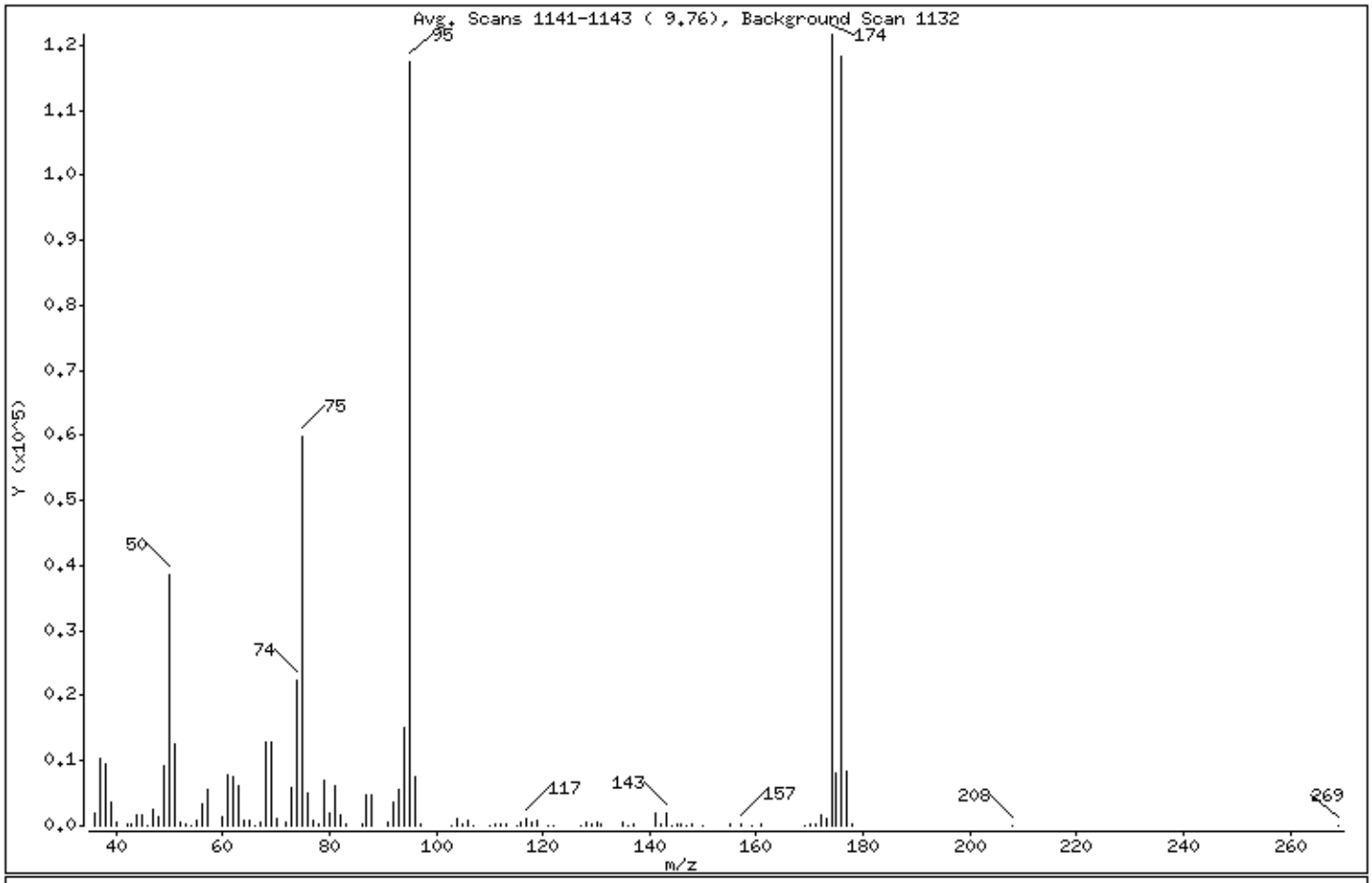
Client ID: BFB Instrument: msdp.i

Sample Info: 50ml #2789-205;BFB;BFB

Volume Injected (uL): 1.0 Operator: jg

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	33.00
75	30.00 - 66.00% of mass 95	51.05
96	5.00 - 9.00% of mass 95	6.43
173	Less than 1.99% of mass 174	1.01 (0.97)
174	50.01 - 120.00% of mass 95	103.67
175	4.00 - 9.00% of mass 174	6.98 (6.73)
176	93.00 - 101.00% of mass 174	100.76 (97.19)
177	5.00 - 9.00% of mass 176	7.06 (7.01)

Data File: /var/chem/msdp.i/12jul16.b/p071201.d

Date : 12-JUL-2016 08:06

Client ID: BFB

Instrument: msdp.i

Sample Info: 50ml #2789-205;BFB;BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00

Data File: p071201.d
Spectrum: Avg. Scans 1141-1143 (9.76), Background Scan 1132
Location of Maximum: 174.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1886	65.00	787	96.00	7547	141.00	1975
37.00	10406	66.00	70	97.00	259	142.00	165
38.00	9472	67.00	538	103.00	52	143.00	1988
39.00	3774	68.00	12928	104.00	1141	144.00	130
40.00	426	69.00	12793	105.00	336	145.00	399
42.00	166	70.00	1249	106.00	909	146.00	183
43.00	169	72.00	562	107.00	93	147.00	101
44.00	1665	73.00	5865	110.00	81	148.00	199
45.00	1604	74.00	22392	111.00	321	150.00	137
46.00	35	75.00	59880	112.00	155	155.00	268
47.00	2419	76.00	5109	113.00	212	157.00	282
48.00	1473	77.00	878	115.00	41	159.00	84
49.00	9236	78.00	372	116.00	606	161.00	144
50.00	38704	79.00	7126	117.00	1123	169.00	86
51.00	12465	80.00	1826	118.00	600	170.00	175
52.00	641	81.00	6162	119.00	945	171.00	247
53.00	197	82.00	1555	121.00	98	172.00	1755
54.00	83	83.00	400	122.00	125	173.00	1184
55.00	887	86.00	300	127.00	86	174.00	121608
56.00	3350	87.00	4684	128.00	537	175.00	8188
57.00	5628	88.00	4826	129.00	276	176.00	118192
60.00	1361	91.00	636	130.00	565	177.00	8287
61.00	7871	92.00	3697	131.00	207	178.00	167
62.00	7580	93.00	5453	135.00	489	208.00	82
63.00	6092	94.00	15139	136.00	36	269.00	104
64.00	878	95.00	117304	137.00	348		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/19jul16.b/p071901.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-JUL-2016 10:16
Operator : jg Inst ID: msdp.i
Smp Info : 50ml #2789-205;BFB;BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/19jul16.b/bfb30.m
Meth Date : 19-Jul-2016 10:40 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 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	
9.761	9.898	-0.137	95	112074			100.00- 100.00	97.44
9.761	9.898	-0.137	50	36931			8.00- 40.00	32.95
9.761	9.898	-0.137	75	60688			30.00- 66.00	54.15
9.761	9.898	-0.137	96	7420			5.00- 9.00	6.62
9.761	9.898	-0.137	173	1291			0.00- 1.99	1.12
9.761	9.898	-0.137	174	115021			50.01- 120.00	102.63
9.761	9.898	-0.137	175	8813			4.00- 9.00	7.66
9.761	9.898	-0.137	176	111981			93.00- 101.00	97.36
9.761	9.898	-0.137	177	6699			5.00- 9.00	5.98

Data File: /chem/msdp.i/19jul16.b/p071901.d

Date : 19-JUL-2016 10:16

Client ID: BFB

Instrument: msdp.i

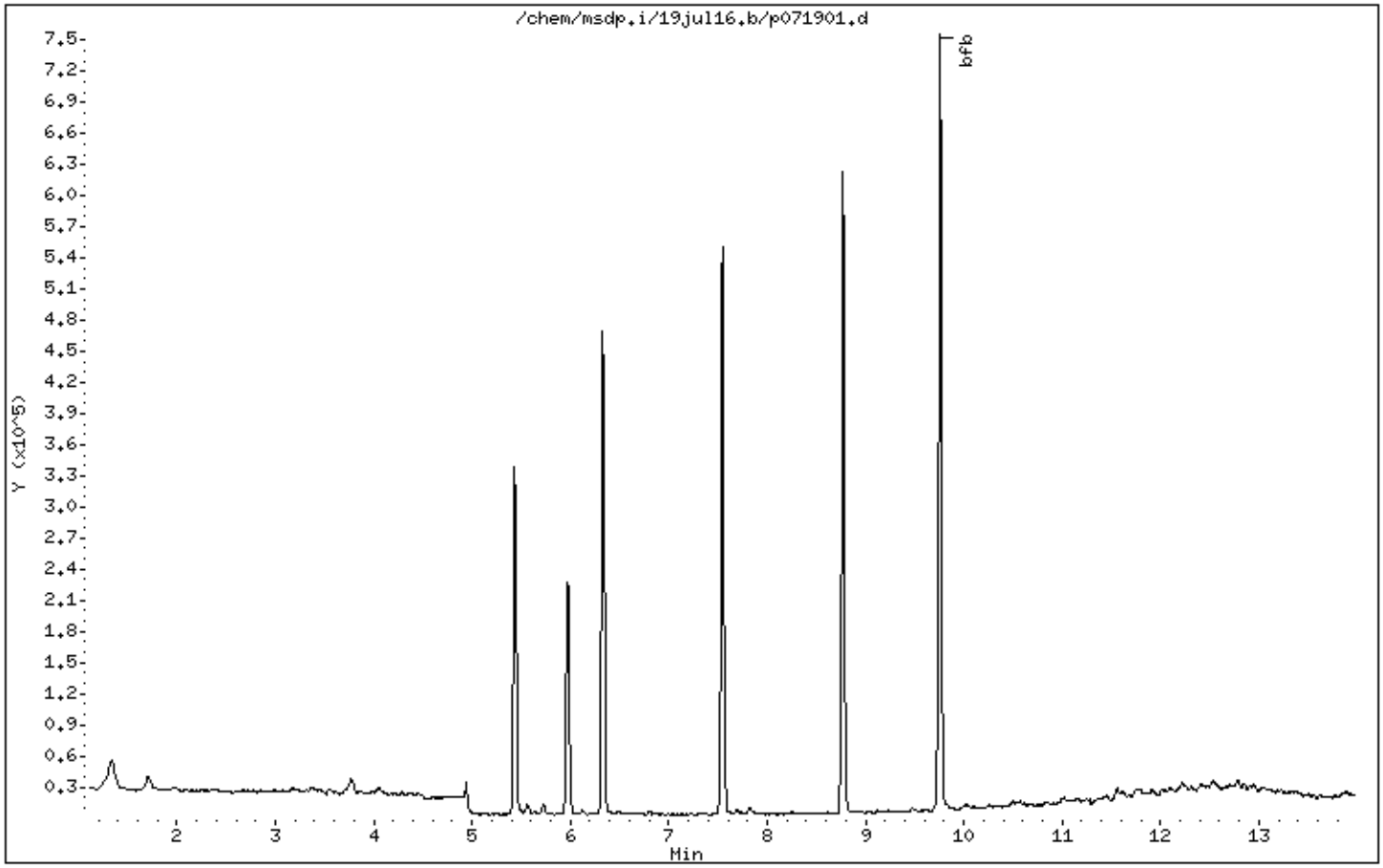
Sample Info: 50ml #2789-205;BFB;BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/19jul16.b/p071901.d

Date : 19-JUL-2016 10:16

Client ID: BFB

Instrument: msdp.i

Sample Info: 50ml #2789-205;BFB;BFB

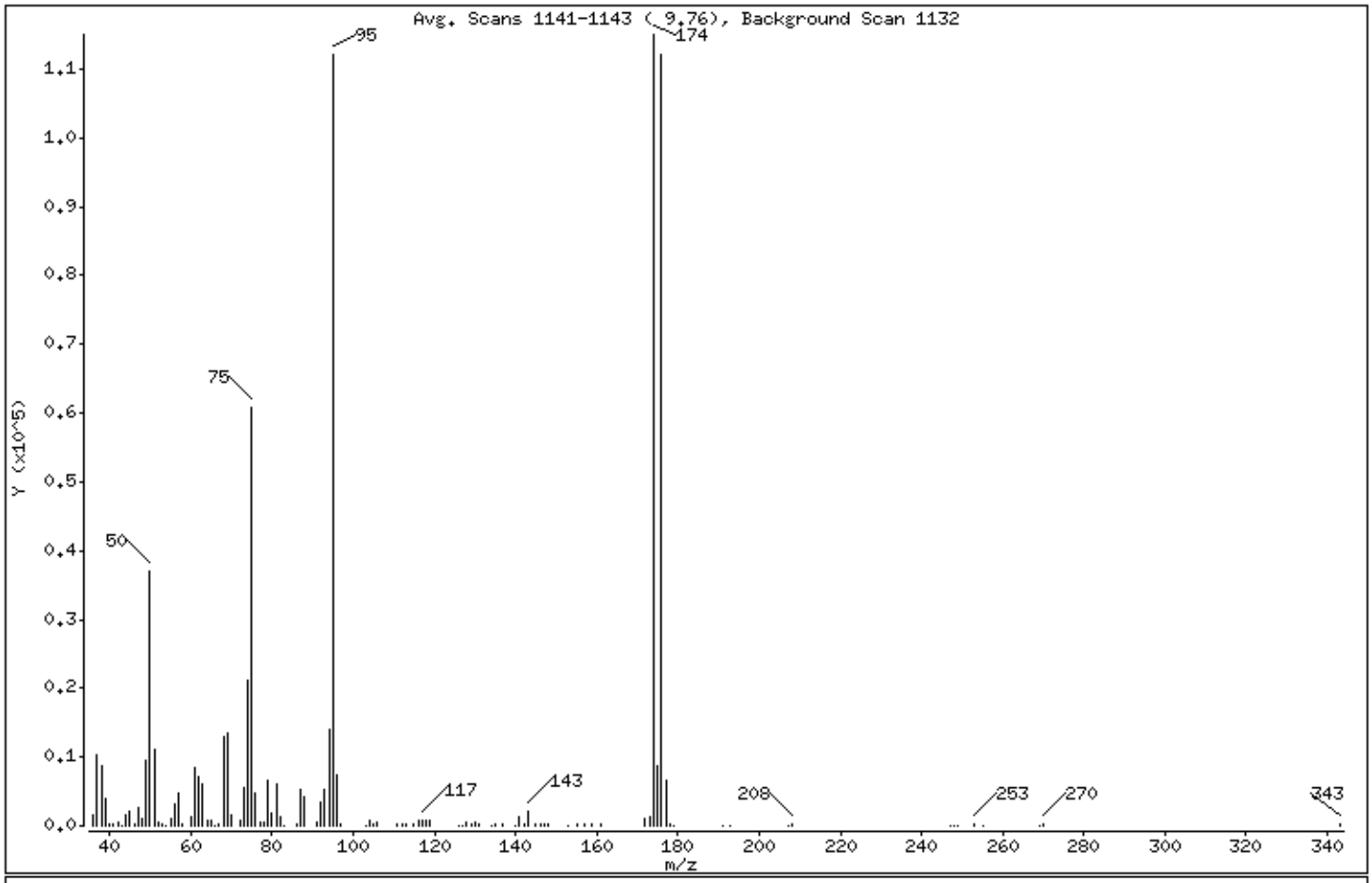
Volume Injected (uL): 1.0

Operator: jg

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	32.95
75	30.00 - 66.00% of mass 95	54.15
96	5.00 - 9.00% of mass 95	6.62
173	Less than 1.99% of mass 174	1.15 (1.12)
174	50.01 - 120.00% of mass 95	102.63
175	4.00 - 9.00% of mass 174	7.86 (7.66)
176	93.00 - 101.00% of mass 174	99.92 (97.36)
177	5.00 - 9.00% of mass 176	5.98 (5.98)

Data File: /chem/msdp.i/19jul16.b/p071901.d

Date : 19-JUL-2016 10:16

Client ID: BFB

Instrument: msdp.i

Sample Info: 50ml #2789-205;BFB;BFB

Volume Injected (uL): 1.0

Operator: jg

Column phase:

Column diameter: 2.00

Data File: p071901.d
Spectrum: Avg. Scans 1141-1143 (9.76), Background Scan 1132
Location of Maximum: 174.00
Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1654	65.00	839	103.00	52	148.00	269
37.00	10237	66.00	45	104.00	780	153.00	87
38.00	8680	67.00	363	105.00	156	155.00	367
39.00	3888	68.00	12935	106.00	659	157.00	188
40.00	196	69.00	13610	111.00	185	159.00	137
41.00	133	70.00	1507	112.00	146	161.00	268
42.00	461	72.00	886	113.00	136	172.00	1183
43.00	129	73.00	5614	115.00	200	173.00	1291
44.00	1685	74.00	21080	116.00	741	174.00	115016
45.00	2000	75.00	60688	117.00	896	175.00	8813
46.00	389	76.00	4687	118.00	802	176.00	111976
47.00	2668	77.00	563	119.00	854	177.00	6699
48.00	1157	78.00	537	126.00	82	178.00	344
49.00	9404	79.00	6567	127.00	102	179.00	46
50.00	36928	80.00	1826	128.00	587	191.00	125
51.00	11026	81.00	5962	129.00	207	193.00	36
52.00	547	82.00	1414	130.00	507	207.00	64
53.00	275	83.00	126	131.00	141	208.00	158
54.00	123	86.00	133	134.00	34	247.00	36
55.00	1003	87.00	5257	135.00	284	248.00	40
56.00	3199	88.00	4265	137.00	292	249.00	42
57.00	4791	91.00	435	140.00	86	253.00	141
58.00	387	92.00	3444	141.00	1414	255.00	36
60.00	1372	93.00	5359	142.00	250	269.00	111
61.00	8436	94.00	13927	143.00	2122	270.00	149
62.00	7258	95.00	112072	145.00	233	343.00	178
63.00	6163	96.00	7420	146.00	229		
64.00	698	97.00	265	147.00	154		

Shipping/ Receiving Documents

eurofins | Air Toxics

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

Page 1 of 2

Project Manager Terry Taylor
Collected by: (Print and Sign) R. O'Reilly, D. Lindstrand, T. Taylor
Company AMAI Email ttaylor@amaiconsult.com
Address 2800 Westchester Ave City Purchase State NY Zip 10577
Phone 914-251-0400 x309 Fax 914-251-1286

Project Info:
P.O. #
Project # Building 18 V1
Project Name

Turn Around Time:
☒ Normal
☒ Rush *
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)
	B18IA-1 ~~(070816)~~	33531	7/9/16	1902	TO-15	-30"+	-6.5"		
	B18IA-2 ~~(070816)~~	6L0015	7/9/16	1849	TO-15	-30"+	-7"		
	B18IA-3 ~~(070816)~~	0174	7/9/16	1827	TO-15	-30"+	-5.5"		
	B18IA-4 ~~(070816)~~	12082	7/9/16	1835	TO-15	-30"+	-5"		
	B18IA-5 ~~(070816)~~	31146	7/9/16	1844	TO-15	-30"+	-6.5"		
	B18IA-1D ~~(070816)~~	21011	7/9/16	1902	TO-15	-30"+	-6.5"		
	~~B18AA (070816) (070816)~~	~~31346~~	~~7/9/16~~	~~1912~~	~~TO-15~~	~~30"+~~	~~"~~		
	* B30IA-1 (070816) *	0152	7/9/16	1812	TO-15	-30"+	-6.5"		
08/16	B18SS-1 ~~(070816)~~	36376	7/10/16	1800	TO-15	-28"	-5"		
09/16	B18SS-2 ~~(070816)~~	3043	7/10/16	1937	TO-15	-30"	-5"		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	07-13-16 1:20	Fed EX	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		[signature] EATL	7/14/16 10:20
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
* Sample B30IA-1 (070816) a 24-hour TAT is requested, all other samples are a normal TAT. Report Results to MDL

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		N/A	good	Yes No (None)	1607235

Form 1293 rev.11

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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) Richard O'Reilly, Dave Lindstrand, Terry Taylor
Company: AMAI Email: ttaylor@amaiconsult.com
Address: 2800 Westchester Ave City: Purchase State: NY Zip: 10577
Phone: 914-251-0400 x309 Fax: 914-251-1286

Project Info:
P.O. #
Project # Building 18 V1
Project Name

Turn Around Time:
☒ Normal
☐ Rush
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)
10A	B18SS-3 ~~(071016)~~	8031	7/12/16	1849	TO-15	-28"	-5"		
11A	B18SS-4 ~~(071016)~~	1025	7/12/16	1850	TO-15	-23"	-5"		
12A	B18SS-5 ~~(071016)~~	36525	7/12/16	1801	TO-15	-30"+	-5"		
13A	B18SS-1D ~~(071016)~~ 30835	~~3051~~	7/12/16	1759	TO-15	-21"	-5"		
	B18AA-071216	12947	7/12/16	1408	TO-15	-30"	-5"		

Relinquished by: (signature) Date/Time: 07-13-16 1700
Received by: (signature) Date/Time: FedEx
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time: EATL 7/14/16 10:20
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		N/A	good	Yes No None	1607235

Form 1293 rev.11

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SAMPLE RECEIPT SUMMARY

WORKORDER 1607235E

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: 07/27/16
Date Completed: 7/27/16
Date Received: 7/14/16
PO#:
Project#: Building 18 VI

Total $: $ 780.00
Logged By: JCW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
08A	B18SS-1	TO-15	7/11/2016	4.7 "Hg	$125.00
09A	B18SS-2	TO-15	7/12/2016	4.7 "Hg	$125.00
10A	B18SS-3	TO-15	7/11/2016	4.7 "Hg	$125.00
11A	B18SS-4	TO-15	7/12/2016	5.5 "Hg	$125.00
12A	B18SS-5	TO-15	7/12/2016	4.3 "Hg	$125.00
13A	B18SS-1D	TO-15	7/11/2016	4.5 "Hg	$125.00
14A	Lab Blank	TO-15	NA	NA	$0.00
15A	CCV	TO-15	NA	NA	$0.00
16A	LCS	TO-15	NA	NA	$0.00
16AA	LCSD	TO-15	NA	NA	$0.00

Misc. ChargeseCVP (6) @ $5.00 each. $30.00

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: TO-14A

TERMS:

Reporting Method: TO-15 + Naph

Other Records

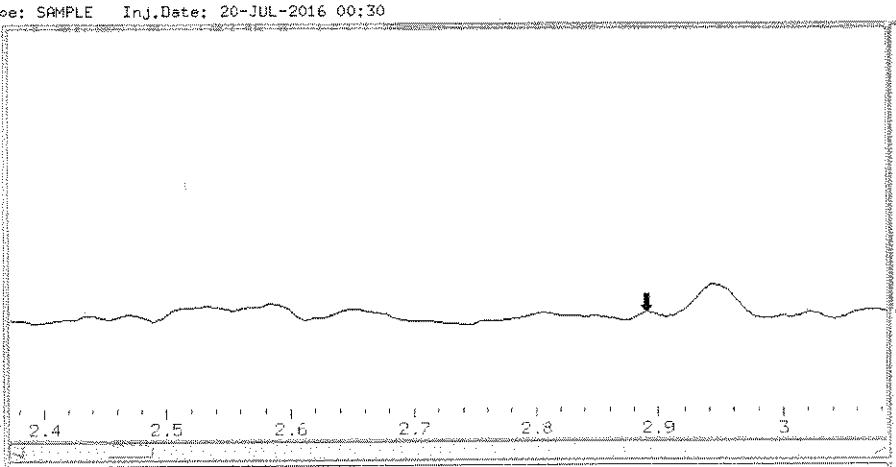
TargetReview: eeyore: 1607235E-12A: /chem/msdp.i/19jul16.b/p071924.d

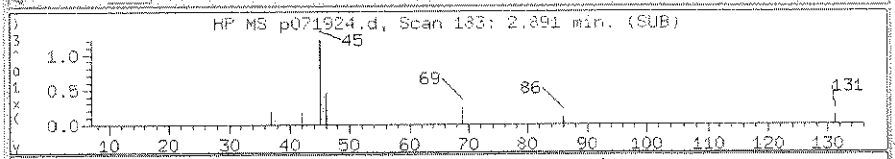
File Security Edit Display Process Spectra Help

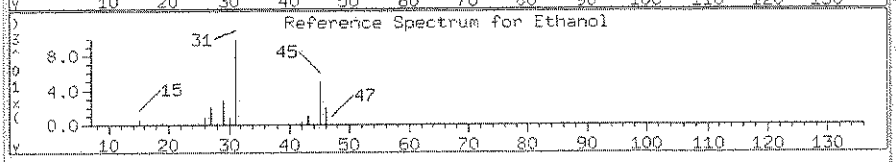
Sample: 1607235E-12A Type: SAMPLE Inj.Date: 20-JUL-2016 00:30

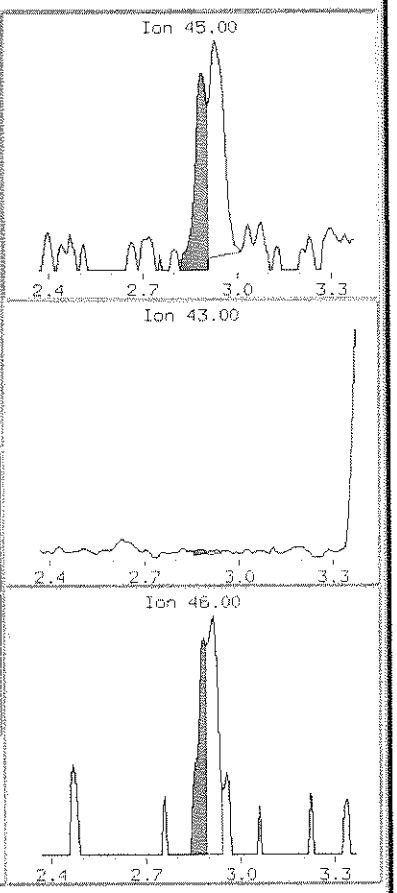
- ** 98 Bromochloromethane
- ** 123 1,4-Difluorobenzene
- ** 163 Chlorobenzene-5
- ** 117 1,2-Dichloroethane
- ** 146 Toluene-d8
- ** 177 4-Bromofluorobenzene
- * 11 Freon 12
- 15 Freon 114
- 17 Chloromethane
- 25 Vinyl Chloride
- 26 1,3-Butadiene
- 29 Bromomethane
- 30 Chloroethane
- * 35 Freon 11
- 42 Ethanol
- 49 Freon 113
- 50 1,1-Dichloroethene
- * 52 Acetone
- * 56 Carbon Disulfide
- * 57 2-Propanol
- 58 3-Chloropropene
- 66 Methylene Chloride
- 72 Methyl tert-butyl
- 73 trans-1,2-Dich.
- 78 Hexane

p071920.d
p071921.d
p071922.d
p071923.d
p071924.d
p071925.d



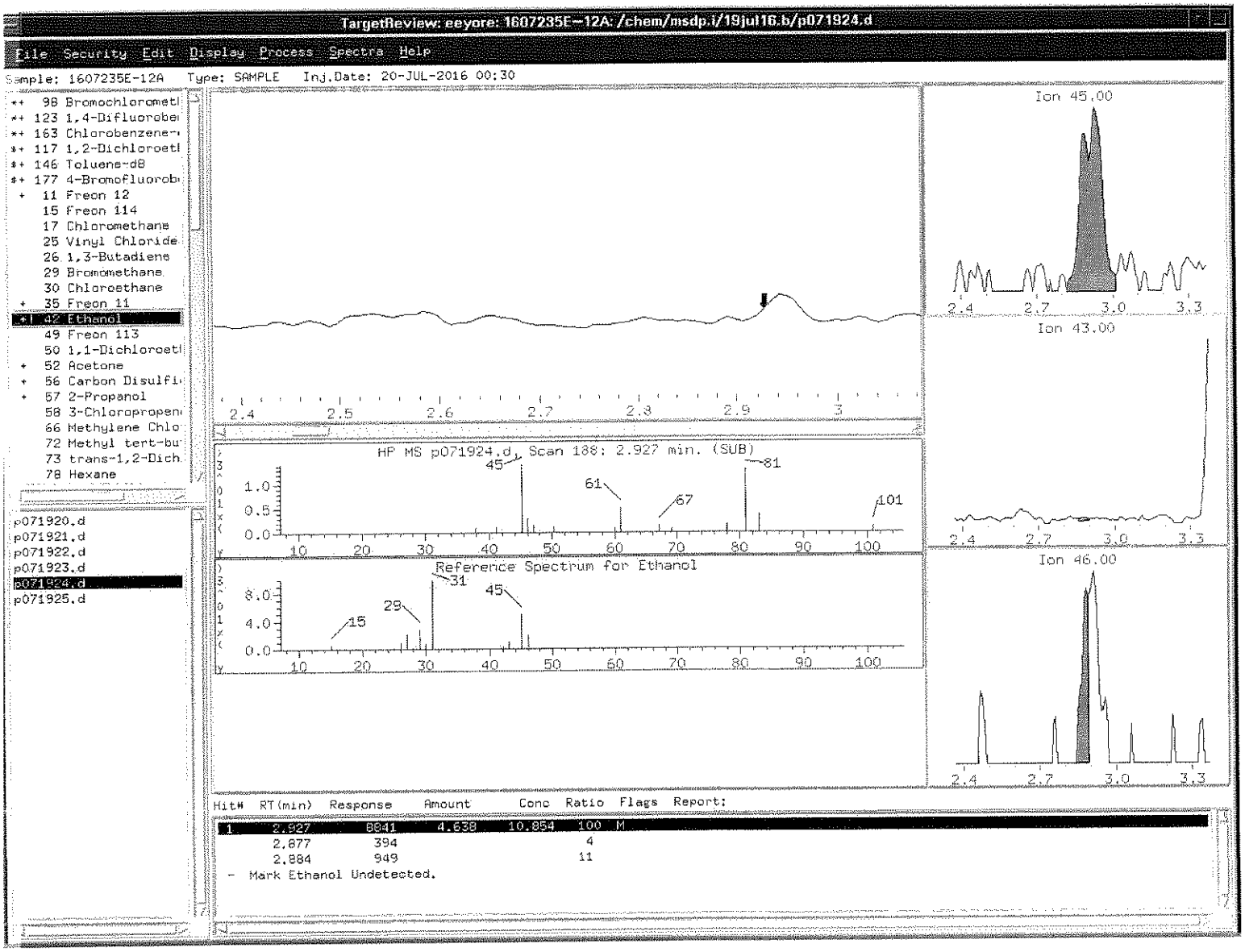






Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	2.891	3533	1.854	4.338	100	a	
	2.877	394			11		
	2.884	949			27		
2	2.927	5002	2.624	6.141	100		
	2.927	310			6		
	2.913	1303			26		

BEFORE



fn 7/27/16

After

Correct Baseline	
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	✓

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

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

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

TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
75-35-4	1,1-Dichloroethene	0.50	
67-64-1	Acetone	5.0	
67-63-0	2-Propanol	2.0	
75-15-0	Carbon Disulfide	2.0	
107-05-1	3-Chloropropene	2.0	
75-09-2	Methylene Chloride	5.0	
1634-04-4	Methyl tert-butyl ether	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
110-54-3	Hexane	0.50	
75-34-3	1,1-Dichloroethane	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0	
156-59-2	cis-1,2-Dichloroethene	0.50	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
110-82-7	Cyclohexane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
540-84-1	2,2,4-Trimethylpentane	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
142-82-5	Heptane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
123-91-1	1,4-Dioxane	2.0	
75-27-4	Bromodichloromethane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-10-1	4-Methyl-2-pentanone	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
591-78-6	2-Hexanone	2.0	
124-48-1	Dibromochloromethane	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
75-25-2	Bromoform	0.50	
98-82-8	Cumene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
103-65-1	Propylbenzene	0.50	
622-96-8	4-Ethyltoluene	0.50	

Compound List

TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
91-20-3	Naphthalene	1.0	
74-87-3	Chloromethane	5.0	
75-01-4	Vinyl Chloride	0.50	
106-99-0	1,3-Butadiene	0.50	
74-83-9	Bromomethane	5.0	
75-00-3	Chloroethane	2.0	
75-69-4	Freon 11	0.50	
64-17-5	Ethanol	2.0	
76-13-1	Freon 113	0.50	

Eurofins Air Toxics, Inc.	Data Review Checklist			Release Date: 02/23/16
Workorder # 1607235 E	Form F1.27	Revision #13	Revision Date: 02/23/16	Page 1 of 2

S1	S2	S3	S4	D	Section 1 – Spec Out				
					Initials/Instrument/Date	S1: MDP 7/19/16	S2:	S3:	S4:
✓					Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓					Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
NA					Manual Integrations included and approved				
✓				✓	Chain of Custody verified for special comments (add comments below)				
NA					Non-standard Target sublist verified (MDL, LOD, RL, control limits, etc.)				

Profile, analyses, reporting, special notes and unusual circumstances:

j-Hep to MDL; 4DBA CCV, 2ov + LCS

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
					Initials/Date	A1: gd 7/20/16	A2:	A3:	A4:
✓				✓	IS/Surr Recoveries, Dilution Factors, Load Volumes, leg(s) of instrument, 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(s) of instrument				
✓				✓	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				
✓				✓	Re-analysis of sample(s) has been evaluated for comparability and/or sample(s) has/have been checked for trends (Inf/Eff), field dups/trip blanks, samples following bad loads on CIAAs have been verified (system blks, confirmation runs).				
✓				✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)				

Analytical and special notes: – 08A + 13A FD OK

– 08A – 13A Full Loads

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/No		T:	
						Initials/Instrument/Date	D1: gd 7/27/16	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: gd 7/27/16	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

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)

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