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Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

TO-15

INVENTORY SHEET

Work Order #: 1602064B

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Comments:

Completed by:

Vera Belitsky	Vera Belitsky / Document Control	2/23/16
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 1602064B

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 #**	BMS VI
DATE RECEIVED:	02/02/2016	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	02/15/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
11A	B30-1SSV013116	TO-15	4.7 "Hg	14.9 psi
12A	B30-2SSV013116	TO-15	4.3 "Hg	14.5 psi
13A	B30-3SSV013116	TO-15	6.1 "Hg	14.7 psi
14A	B30-4DSSV013116	TO-15	6.3 "Hg	15 psi
15A	B30-5SSV013116	TO-15	2.2 "Hg	14.6 psi
16A	B42-1SSV013116	TO-15	4.5 "Hg	14.9 psi
17A	B42-2SSV013116	TO-15	3.3 "Hg	14.9 psi
18A	B42-3SSV013116	TO-15	3.3 "Hg	15 psi
19A	Lab Blank	TO-15	NA	NA
19B	Lab Blank	TO-15	NA	NA
20A	CCV	TO-15	NA	NA
20B	CCV	TO-15	NA	NA
21A	LCS	TO-15	NA	NA
21AA	LCSD	TO-15	NA	NA
21B	LCS	TO-15	NA	NA
21BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/15/16

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

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LABORATORY NARRATIVE
EPA Method TO-15
Anderson Mulholland & Associates, Inc.
Workorder# 1602064B

Eight 1 Liter Summa Canister samples were received on February 02, 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

Dilution was performed on samples B30-1SSV013116, B30-4DSSV013116 and B42-1SSV013116 due to the presence of high level target species.

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.

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.

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
B30-1SSV013116	1602064B-11A	1/31/2016	2/ 2/2016	NA	15	2/15/2016	NA	Good
B30-2SSV013116	1602064B-12A	1/31/2016	2/ 2/2016	NA	8	2/ 8/2016	NA	Good
B30-3SSV013116	1602064B-13A	1/31/2016	2/ 2/2016	NA	8	2/ 8/2016	NA	Good
B30-4DSSV013116	1602064B-14A	1/31/2016	2/ 2/2016	NA	8	2/ 8/2016	NA	Good
B30-5SSV013116	1602064B-15A	1/31/2016	2/ 2/2016	NA	8	2/ 8/2016	NA	Good
B42-1SSV013116	1602064B-16A	1/31/2016	2/ 2/2016	NA	8	2/ 8/2016	NA	Good
B42-2SSV013116	1602064B-17A	1/31/2016	2/ 2/2016	NA	8	2/ 8/2016	NA	Good
B42-3SSV013116	1602064B-18A	1/31/2016	2/ 2/2016	NA	8	2/ 8/2016	NA	Good
Lab Blank	1602064B-19A	NA	NA	NA	NA	2/ 8/2016	NA	Good
Lab Blank	1602064B-19B	NA	NA	NA	NA	2/15/2016	NA	Good
CCV	1602064B-20A	NA	NA	NA	NA	2/ 8/2016	NA	Good
CCV	1602064B-20B	NA	NA	NA	NA	2/15/2016	NA	Good
LCS	1602064B-21A	NA	NA	NA	NA	2/ 8/2016	NA	Good
LCSD	1602064B-21AA	NA	NA	NA	NA	2/ 8/2016	NA	Good
LCS	1602064B-21B	NA	NA	NA	NA	2/15/2016	NA	Good
LCSD	1602064B-21BB	NA	NA	NA	NA	2/15/2016	NA	Good

Sample Results and Raw Data

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

Client Sample ID: B30-1SSV013116

Lab ID#: 1602064B-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	4000	820 J	14000	2800 J
Ethyl Benzene	4000	14000	17000	61000
m,p-Xylene	4000	440000	17000	1900000
o-Xylene	4000	8400	17000	36000

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Client Sample ID: B30-1SSV013116

Lab ID#: 1602064B-11A

EPA METHOD TO-15 GC/MS

File Name:	**14021509**	**Date of Collection:**	**1/31/16 12:24:00 PM**
Dil. Factor:	**796**	**Date of Analysis:**	**2/15/16 02:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4000	Not Detected	20000	Not Detected
Freon 114	4000	Not Detected	28000	Not Detected
Chloromethane	16000	Not Detected	33000	Not Detected
Vinyl Chloride	4000	Not Detected	10000	Not Detected
1,3-Butadiene	4000	Not Detected	8800	Not Detected
Bromomethane	4000	Not Detected	15000	Not Detected
Chloroethane	16000	Not Detected	42000	Not Detected
Freon 11	4000	Not Detected	22000	Not Detected
Ethanol	16000	Not Detected	30000	Not Detected
Freon 113	4000	Not Detected	30000	Not Detected
1,1-Dichloroethene	4000	Not Detected	16000	Not Detected
Acetone	16000	Not Detected	38000	Not Detected
2-Propanol	16000	Not Detected	39000	Not Detected
Carbon Disulfide	4000	Not Detected	12000	Not Detected
3-Chloropropene	16000	Not Detected	50000	Not Detected
Methylene Chloride	4000	Not Detected	14000	Not Detected
Methyl tert-butyl ether	4000	Not Detected	14000	Not Detected
trans-1,2-Dichloroethene	4000	Not Detected	16000	Not Detected
Hexane	4000	Not Detected	14000	Not Detected
1,1-Dichloroethane	4000	Not Detected	16000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16000	Not Detected	47000	Not Detected
cis-1,2-Dichloroethene	4000	Not Detected	16000	Not Detected
Tetrahydrofuran	4000	Not Detected	12000	Not Detected
Chloroform	4000	Not Detected	19000	Not Detected
1,1,1-Trichloroethane	4000	Not Detected	22000	Not Detected
Cyclohexane	4000	820 J	14000	2800 J
Carbon Tetrachloride	4000	Not Detected	25000	Not Detected
2,2,4-Trimethylpentane	4000	Not Detected	18000	Not Detected
Benzene	4000	Not Detected	13000	Not Detected
1,2-Dichloroethane	4000	Not Detected	16000	Not Detected
Heptane	4000	Not Detected	16000	Not Detected
Trichloroethene	4000	Not Detected	21000	Not Detected
1,2-Dichloropropane	4000	Not Detected	18000	Not Detected
1,4-Dioxane	16000	Not Detected	57000	Not Detected
Bromodichloromethane	4000	Not Detected	27000	Not Detected
cis-1,3-Dichloropropene	4000	Not Detected	18000	Not Detected
4-Methyl-2-pentanone	4000	Not Detected	16000	Not Detected
Toluene	4000	Not Detected	15000	Not Detected
trans-1,3-Dichloropropene	4000	Not Detected	18000	Not Detected
1,1,2-Trichloroethane	4000	Not Detected	22000	Not Detected
Tetrachloroethene	4000	Not Detected	27000	Not Detected
2-Hexanone	16000	Not Detected	65000	Not Detected

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Client Sample ID: B30-1SSV013116

Lab ID#: 1602064B-11A

EPA METHOD TO-15 GC/MS

File Name:	**14021509**	**Date of Collection:**	**1/31/16 12:24:00 PM**
Dil. Factor:	**796**	**Date of Analysis:**	**2/15/16 02:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	4000	Not Detected	34000	Not Detected
1,2-Dibromoethane (EDB)	4000	Not Detected	30000	Not Detected
Chlorobenzene	4000	Not Detected	18000	Not Detected
Ethyl Benzene	4000	14000	17000	61000
m,p-Xylene	4000	440000	17000	1900000
o-Xylene	4000	8400	17000	36000
Styrene	4000	Not Detected	17000	Not Detected
Bromoform	4000	Not Detected	41000	Not Detected
Cumene	4000	Not Detected	20000	Not Detected
1,1,2,2-Tetrachloroethane	4000	Not Detected	27000	Not Detected
Propylbenzene	4000	Not Detected	20000	Not Detected
4-Ethyltoluene	4000	Not Detected	20000	Not Detected
1,3,5-Trimethylbenzene	4000	Not Detected	20000	Not Detected
1,2,4-Trimethylbenzene	4000	Not Detected	20000	Not Detected
1,3-Dichlorobenzene	4000	Not Detected	24000	Not Detected
1,4-Dichlorobenzene	4000	Not Detected	24000	Not Detected
alpha-Chlorotoluene	4000	Not Detected	21000	Not Detected
1,2-Dichlorobenzene	4000	Not Detected	24000	Not Detected
1,2,4-Trichlorobenzene	16000	Not Detected UJ	120000	Not Detected UJ
Hexachlorobutadiene	16000	Not Detected	170000	Not Detected
Naphthalene	16000	Not Detected	83000	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

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

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15feb16.b/14021509.d
Lab Smp Id: 1602064B-11A
Inj Date : 15-FEB-2016 14:32
Operator : mjs Inst ID: msd14.i
Smp Info : 15mL #1L1536
Misc Info : 4.7"Hg->14.9psi (100x Can Dilution)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/15feb16.b/14650212a.m
Meth Date : 15-Feb-2016 14:25 jscarbro Quant Type: ISTD
Cal Date : 12-FEB-2016 14:28 Cal File: 14021213.d
Als bottle: 1
Dil Factor: 796.00000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	796.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	128085	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	98048			46.39- 106.39	76.55
4.739	4.739 (1.000)	49	228620			150.71- 210.71	178.49
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	568493	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	95141			0.00- 47.48	16.74
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	460847	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	309422			37.59- 97.59	67.14
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	229865	394.613	394.61	80.00- 120.00	100.00(a)
5.382	5.382 (1.136)	67	118721			24.07- 84.07	51.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	617563	392.245	392.24	80.00- 120.00	100.00(a)
7.621	7.621 (1.304)	70	71857			0.00- 41.71	11.64
7.621	7.621 (1.304)	100	387023			32.73- 92.73	62.67
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	231937	401.413	401.41	80.00- 120.00	100.00(a)
10.937	10.937 (1.114)	95	392281			142.84- 202.84	169.13
10.951	10.937 (1.115)	176	221187			67.70- 127.70	95.37
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.921 (1.038)	84	874	1.03397	823.04	80.00- 120.00	100.00(a)
4.920	4.921 (1.038)	56	1405			99.79- 159.79	160.66
4.920	4.921 (1.038)	41	932			28.40- 88.40	106.63
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	13643	17.6630	14060	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	46836			310.29- 370.29	343.29
169 m,p-Xylene					CAS #: 108-38-3		
10.069	10.070 (1.026)	106	507406	549.076	437060	80.00- 120.00	100.00
10.069	10.070 (1.026)	91	1089248			185.45- 245.45	214.67
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	8993	10.5171	8371.6	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	19367			196.57- 256.57	215.35

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14021509.d
Lab Smp Id: 1602064B-11A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: 4.7"Hg->14.9psi (100x Can Dilution)

Calibration Date: 15-FEB-2016
Calibration Time: 10:38

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	134188	80513	187863	128085	-4.55
123 1,4-Difluorobenze	615834	369500	862168	568493	-7.69
163 Chlorobenzene-d5	494859	296915	692803	460847	-6.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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: 15-Feb-2016 16:35

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15feb16a
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1602064B-11A
Level: LOW
Operator: mjs
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: 4.7"Hg->14.9psi (100x Can Dilution)

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	394.61	98.65	70-130
$ 146 Toluene-d8	400.00	392.24	98.06	70-130
$ 177 4-Bromofluorobenze	400.00	401.41	100.35	70-130

Data File: /chem/msd14.i/15feb16.b/14021509.d

Date : 15-FEB-2016 14:32

Client ID:

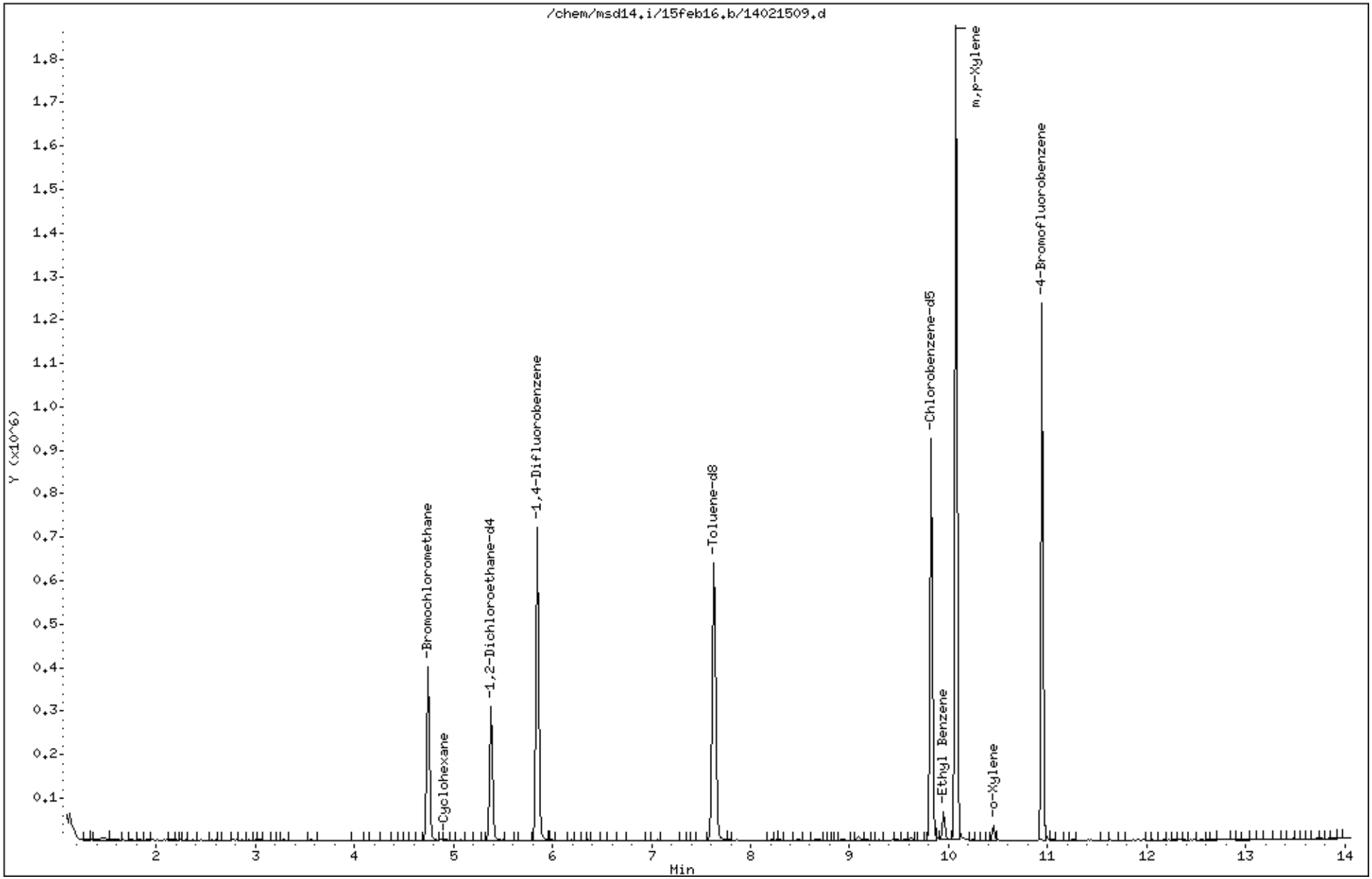
Sample Info: 15mL #1L1536

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



Data File: /chem/msd14.i/15feb16.b/14021509.d

Date : 15-FEB-2016 14:32

Client ID:

Instrument: msd14.i

Sample Info: 15mL #1L1536

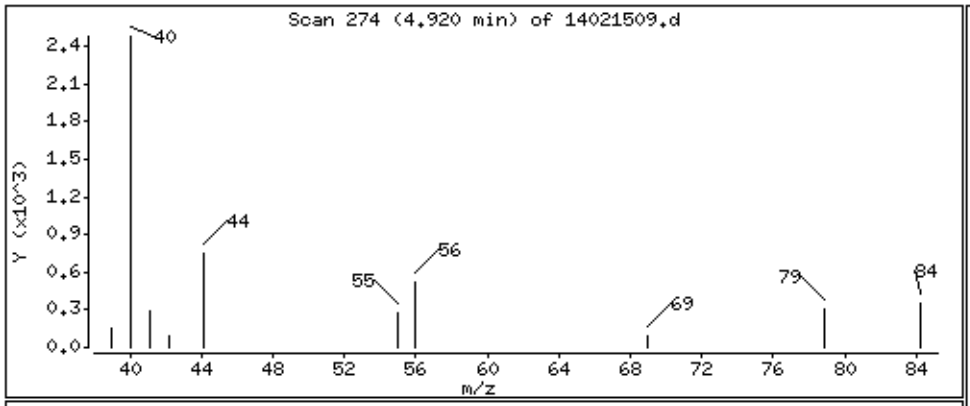
Operator: mjs

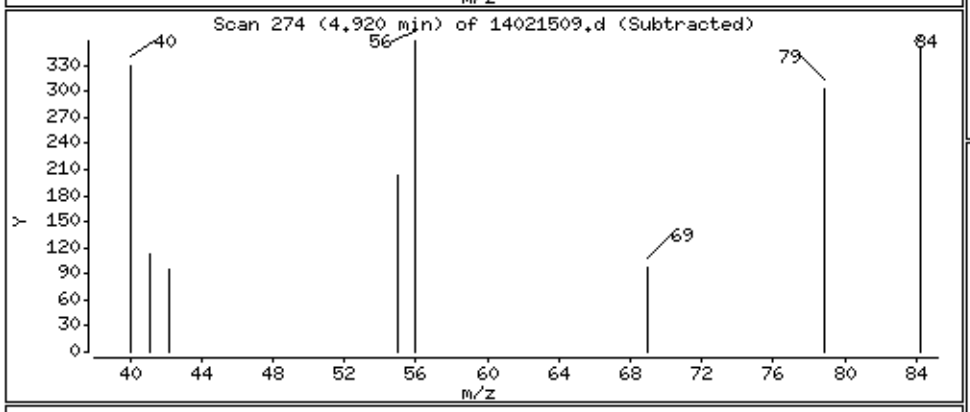
Column phase: RTX-624

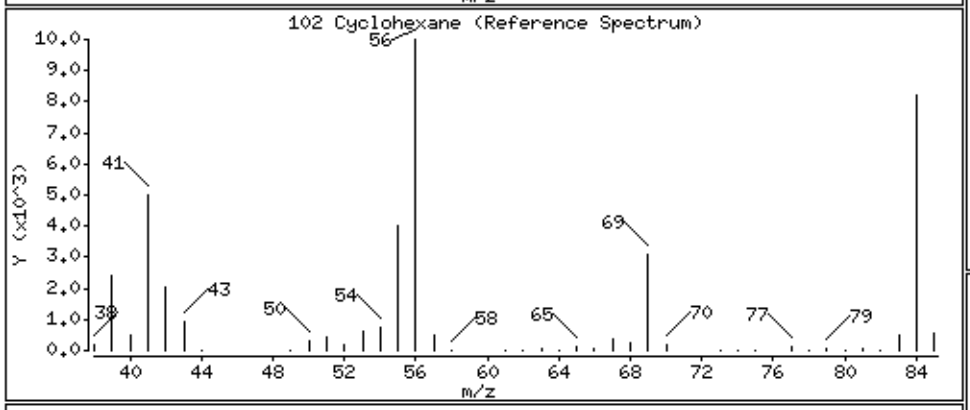
Column diameter: 0.18

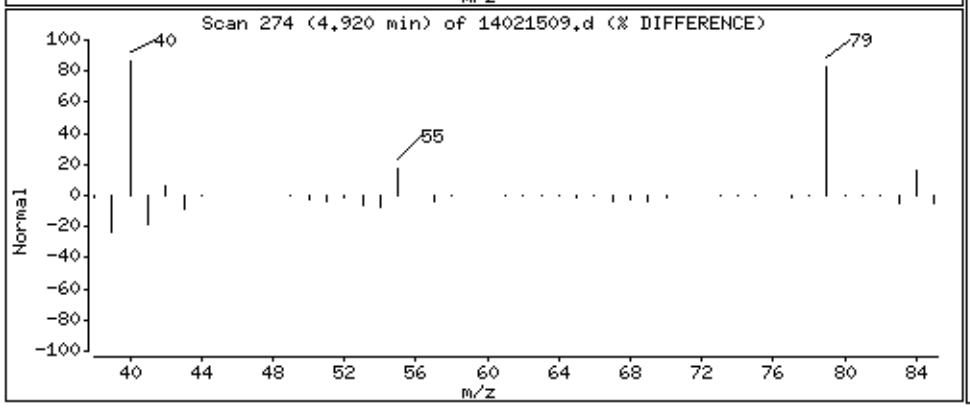
102 Cyclohexane

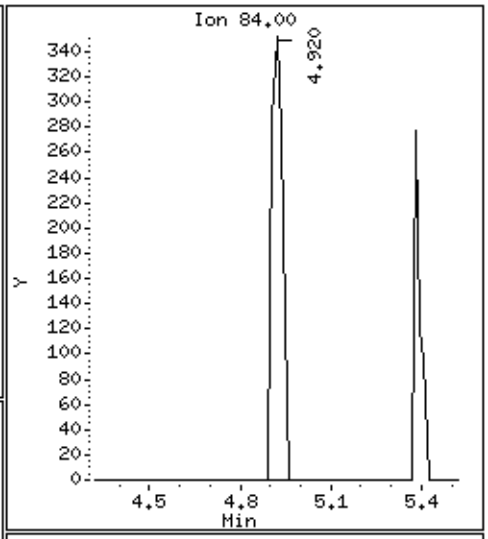
Concentration: 823.04 PPBV

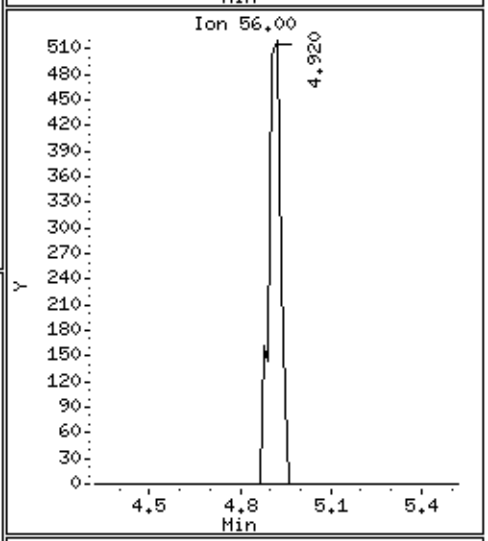


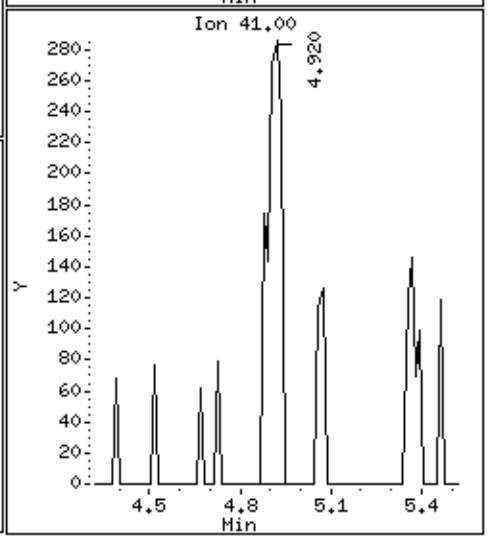












Data File: /chem/msd14.i/15feb16.b/14021509.d

Date : 15-FEB-2016 14:32

Client ID:

Instrument: msd14.i

Sample Info: 15mL #1L1536

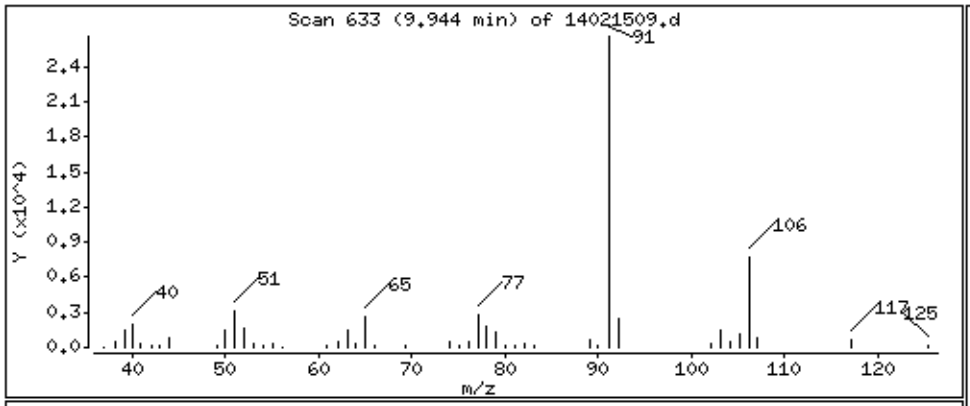
Operator: mjs

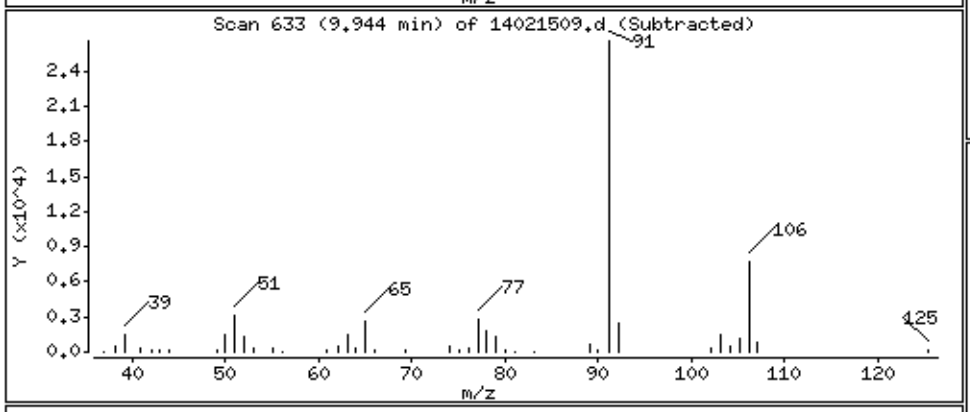
Column phase: RTX-624

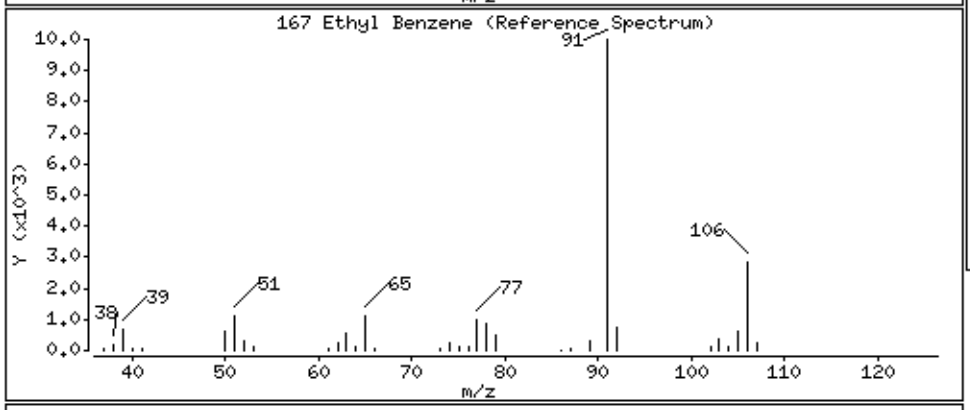
Column diameter: 0.18

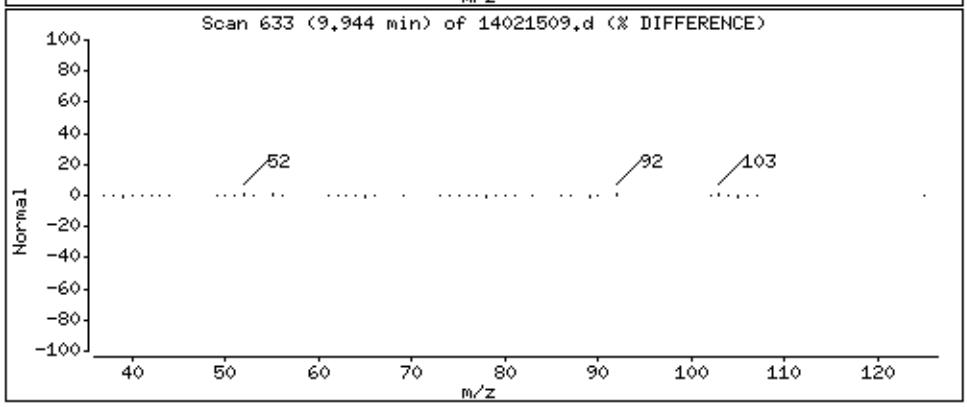
167 Ethyl Benzene

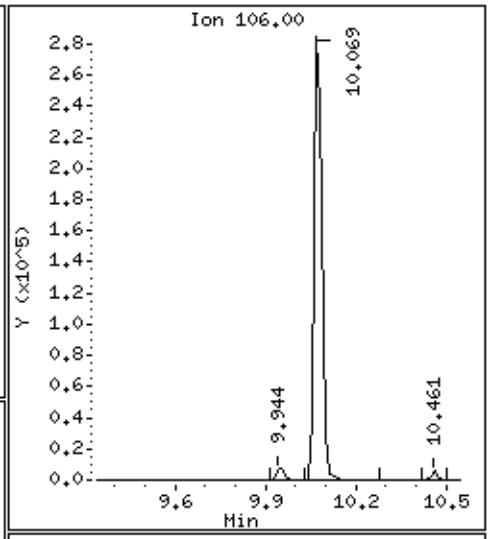
Concentration: 14060 PPBV

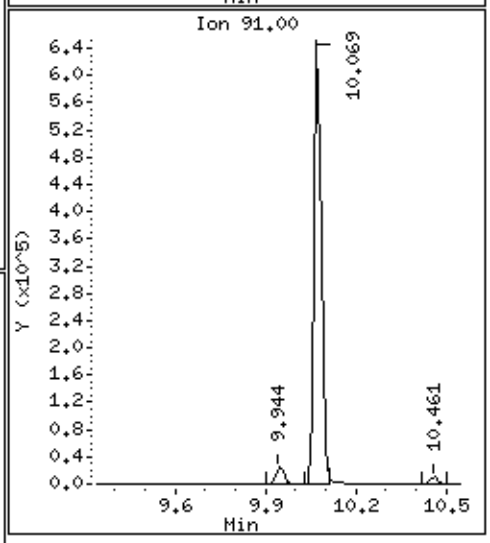












Data File: /chem/msd14.i/15feb16.b/14021509.d

Date : 15-FEB-2016 14:32

Client ID:

Instrument: msd14.i

Sample Info: 15mL #1L1536

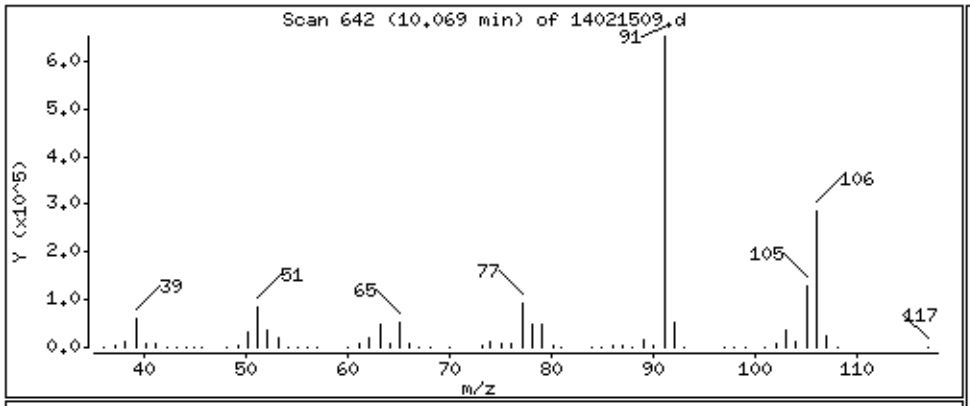
Operator: mjs

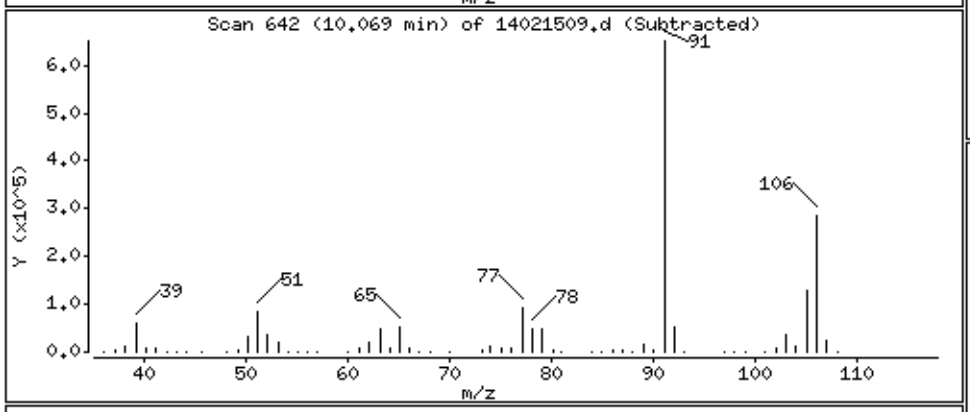
Column phase: RTX-624

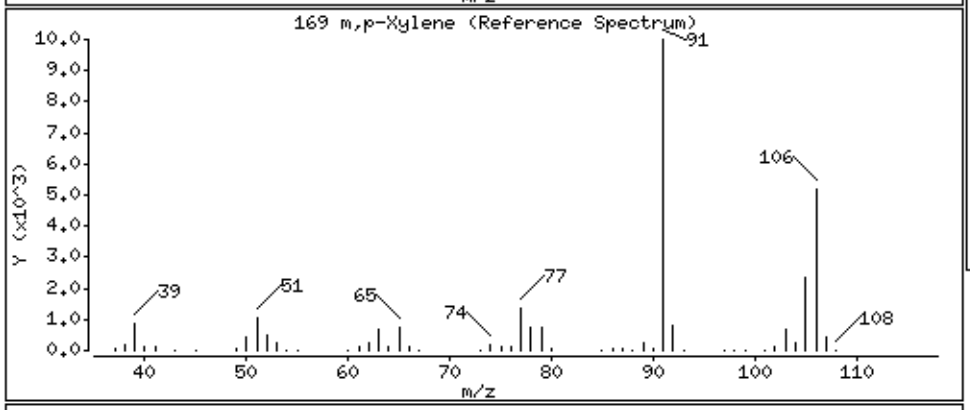
Column diameter: 0.18

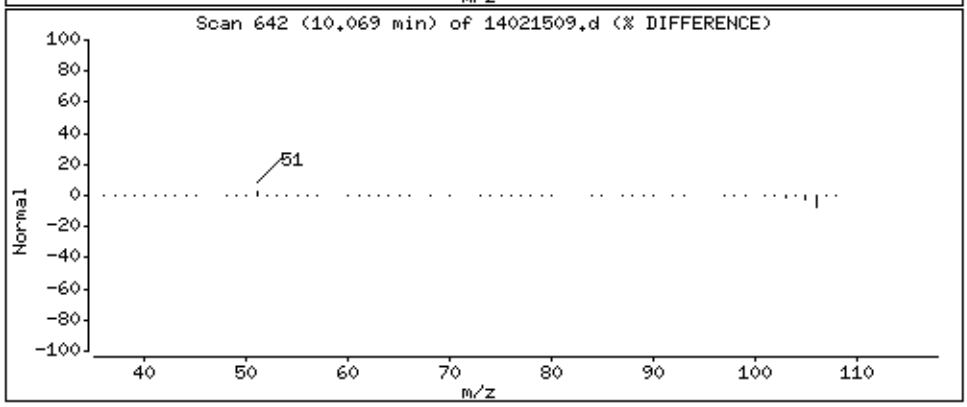
169 m,p-Xylene

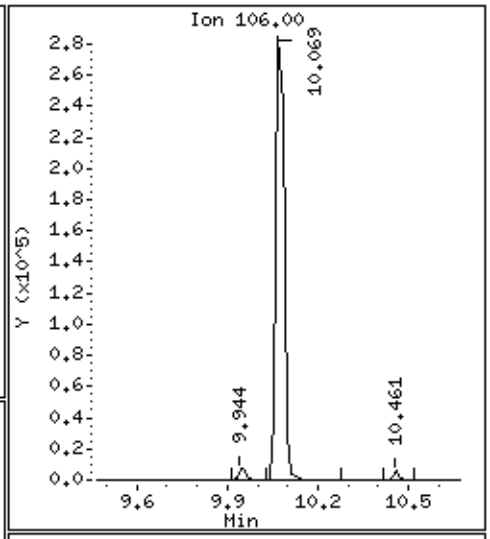
Concentration: 437060 PPBV

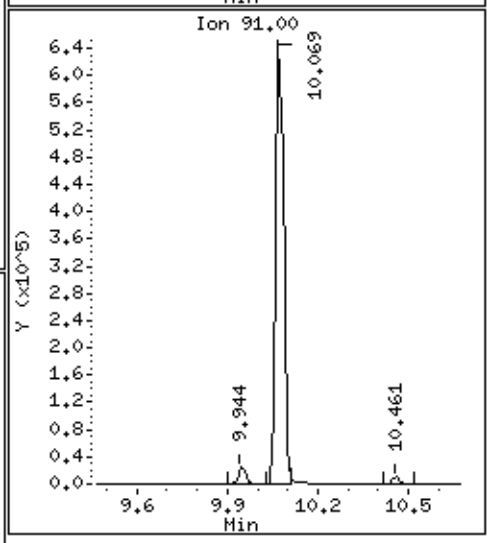












Data File: /chem/msd14.i/15feb16.b/14021509.d

Date : 15-FEB-2016 14:32

Client ID:

Instrument: msd14.i

Sample Info: 15mL #1L1536

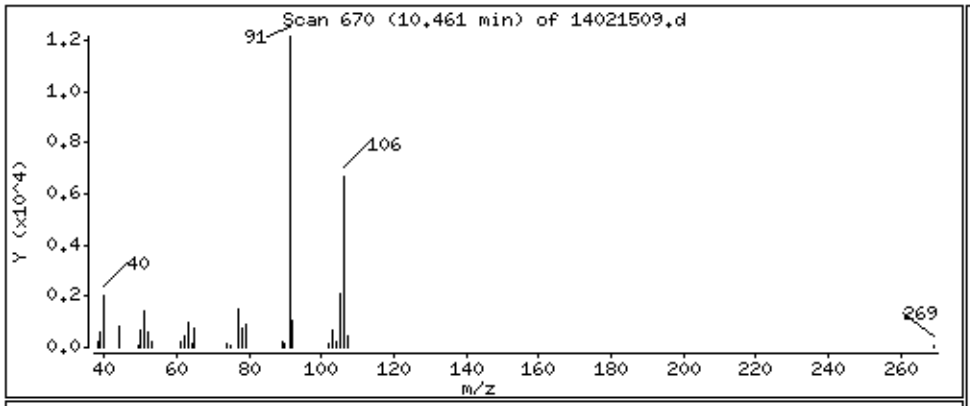
Operator: mjs

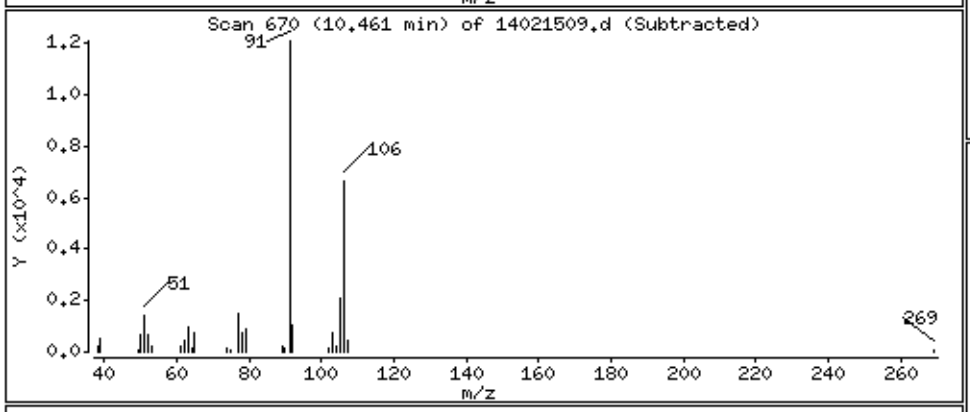
Column phase: RTX-624

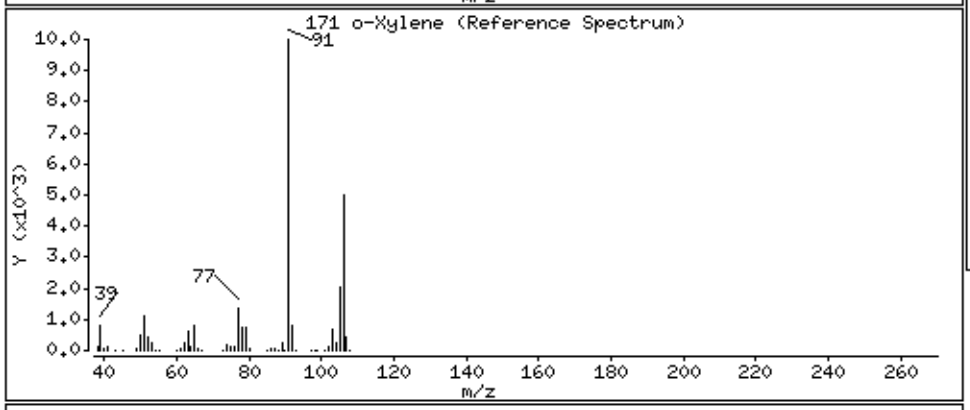
Column diameter: 0.18

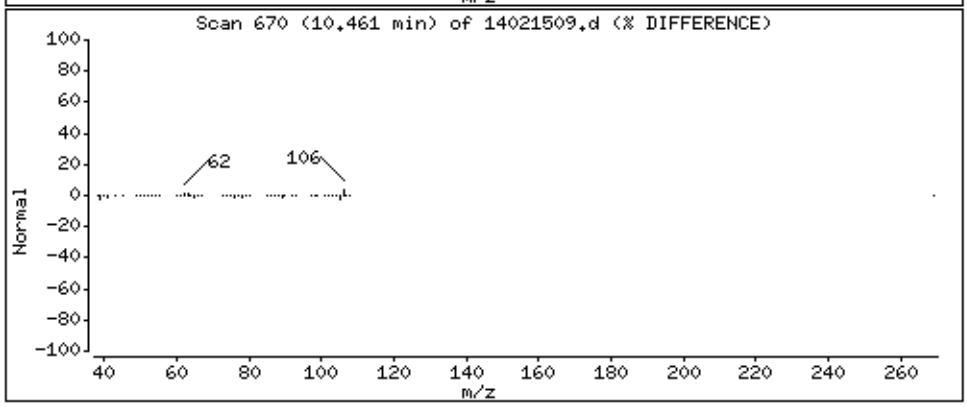
171 o-Xylene

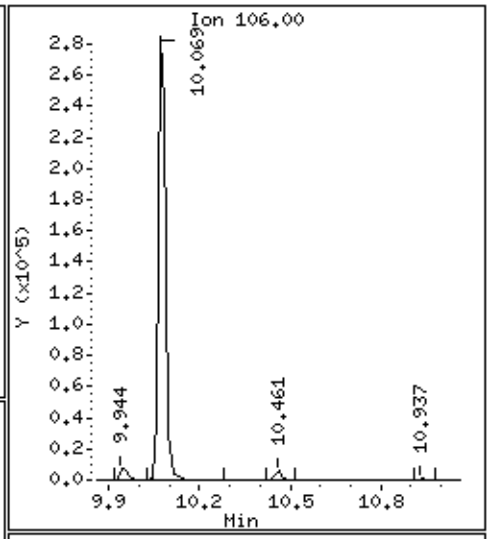
Concentration: 8371.6 PPBV

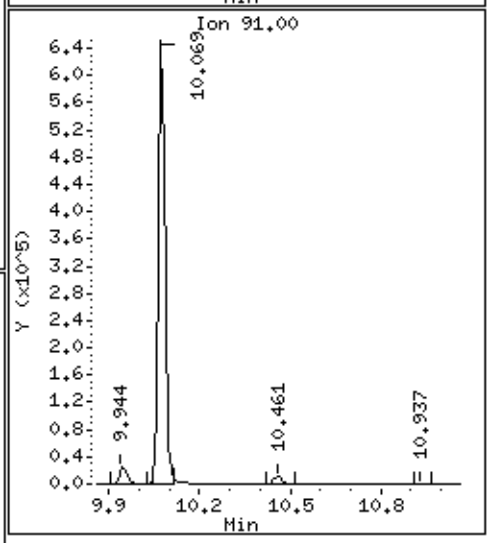












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B30-2SSV013116

Lab ID#: 1602064B-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.48 J	5.7	2.4 J
Freon 11	1.2	0.24 J	6.5	1.4 J
Ethanol	4.6	7.3	8.7	14
Acetone	12	8.2 J	28	20 J
2-Propanol	4.6	9.2	11	23
2-Butanone (Methyl Ethyl Ketone)	4.6	1.6 J	14	4.6 J
2,2,4-Trimethylpentane	1.2	0.17 J	5.4	0.79 J
Heptane	1.2	0.67 J	4.8	2.8 J
Toluene	1.2	0.24 J	4.4	0.89 J

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Client Sample ID: B30-2SSV013116

Lab ID#: 1602064B-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020818**	**Date of Collection:**	**1/31/16 12:40:00 PM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**2/8/16 07:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.48 J	5.7	2.4 J
Freon 114	1.2	Not Detected	8.1	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	4.6	Not Detected	12	Not Detected
Freon 11	1.2	0.24 J	6.5	1.4 J
Ethanol	4.6	7.3	8.7	14
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	8.2 J	28	20 J
2-Propanol	4.6	9.2	11	23
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	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)	4.6	1.6 J	14	4.6 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	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	0.17 J	5.4	0.79 J
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	0.67 J	4.8	2.8 J
Trichloroethene	1.2	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.6	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	0.24 J	4.4	0.89 J
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected

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Client Sample ID: B30-2SSV013116

Lab ID#: 1602064B-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020818**	**Date of Collection:**	**1/31/16 12:40:00 PM**
Dil. Factor:	**2.32**	**Date of Analysis:**	**2/8/16 07:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.9	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	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	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020818.d
Lab Smp Id: 1602064B-12A
Inj Date : 08-FEB-2016 19:43
Operator : gd Inst ID: msdp.i
Smp Info : 200ml 8002
Misc Info : 4.3 Hg->14.5 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 13-Feb-2016 11:45 dbailey Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 2
Dil Factor: 2.32000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.32000	Dilution Factor

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	136371	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	107606			49.06- 109.06	78.91
5.456	5.449 (1.000)	49	210389			124.20- 184.20	154.28
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	559983	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	79649			0.00- 44.57	14.22
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.786	8.779 (1.000)	117	536498	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	272540			20.36- 80.36	50.80
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	198983	24.7256	24.726	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	96440			26.68- 86.68	48.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.554	7.555 (1.191)	98	560844	25.0677	25.068	80.00- 120.00	100.00
7.554	7.555 (1.191)	70	58119			0.00- 40.62	10.36
7.554	7.555 (1.191)	100	363197			36.74- 96.74	64.76
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.768	9.761 (1.112)	174	408044	23.5828	23.583	80.00- 120.00	100.00
9.768	9.761 (1.112)	95	402402			65.95- 125.95	98.62
9.768	9.761 (1.112)	176	390807			65.80- 125.80	95.78
11 Freon 12					CAS #: 75-71-8		
1.520	1.507 (0.279)	85	3164	0.20856	0.4838	80.00- 120.00	100.00(a)
1.520	1.507 (0.279)	87	362			1.76- 61.76	11.46
35 Freon 11					CAS #: 75-69-4		
2.576	2.569 (0.472)	101	1643	0.10392	0.2411	80.00- 120.00	100.00(a)
2.576	2.569 (0.472)	103	1035			34.50- 94.50	63.00
42 Ethanol					CAS #: 64-17-5		
2.898	2.877 (0.531)	45	8142	3.13858	7.282	80.00- 120.00	100.00
2.913	2.877 (0.534)	43	704			0.00- 50.77	8.65
2.891	2.877 (0.530)	46	2935			8.68- 68.68	36.06
52 Acetone					CAS #: 67-64-1		
3.393	3.386 (0.622)	58	12770	3.55199	8.241	80.00- 120.00	100.00(a)
3.393	3.386 (0.622)	43	46536			323.05- 383.05	364.42
57 2-Propanol					CAS #: 67-63-0		
3.557	3.550 (0.652)	45	60797	3.96369	9.196	80.00- 120.00	100.00
3.565	3.550 (0.653)	43	12987			0.00- 49.72	21.36
3.565	3.550 (0.653)	59	2152			0.00- 33.36	3.54
92 2-Butanone					CAS #: 78-93-3		
5.255	5.248 (0.963)	72	1975	0.66958	1.553	80.00- 120.00	100.00(a)
5.248	5.248 (0.962)	43	11699			452.15- 512.15	592.18
5.248	5.248 (0.962)	57	1985			9.54- 69.54	100.48
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	2733	0.07299	0.1693	80.00- 120.00	100.00(a)
5.957	5.964 (1.092)	56	254			1.10- 61.10	9.32
5.957	5.964 (1.092)	41	1640			0.00- 57.08	60.00
121 Heptane					CAS #: 142-82-5		
6.136	6.129 (0.967)	71	2134	0.28926	0.6711	80.00- 120.00	100.00(a)
6.136	6.129 (0.967)	43	4474			172.43- 232.43	209.66
6.136	6.129 (0.967)	57	2644			85.51- 145.51	123.91

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
147 Toluene						CAS #: 108-88-3		
7.619	7.612	(1.201)	91	2423	0.10155	0.2356	80.00- 120.00	100.00(a)
7.612	7.612	(1.200)	92	1189			27.38- 87.38	49.09

QC Flag Legend

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

Report Date: 15-Feb-2016 14:00

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020818.d
Lab Smp Id: 1602064B-12A
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 4.3 Hg->14.5 psi

Calibration Date: 08-FEB-2016
Calibration Time: 10:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	136371	-10.57
123 1,4-Difluorobenze	608067	364840	851294	559983	-7.91
163 Chlorobenzene-d5	577195	346317	808073	536498	-7.05

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	8.79	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: 15-Feb-2016 14:00

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 08feb16
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1602064B-12A
Level: LOW Operator: gd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 4.3 Hg->14.5 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.726	98.90	70-130
$ 146 Toluene-d8	25.000	25.068	100.27	70-130
$ 177 4-Bromofluorobenze	25.000	23.583	94.33	70-130

Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

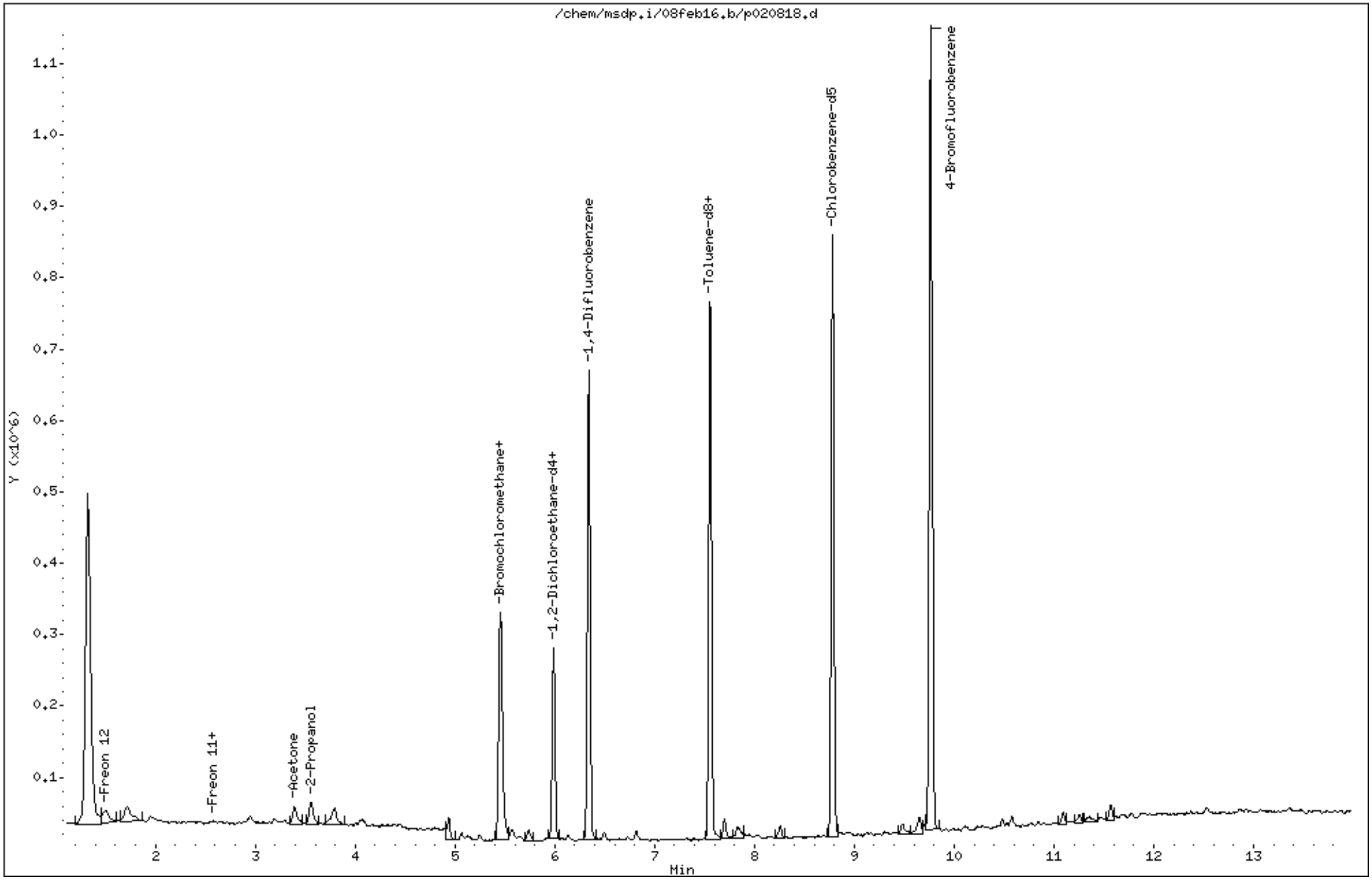
Sample Info: 200ml 8002

Column phase: RTX-624

Instrument: msdp.i

Operator: gd

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

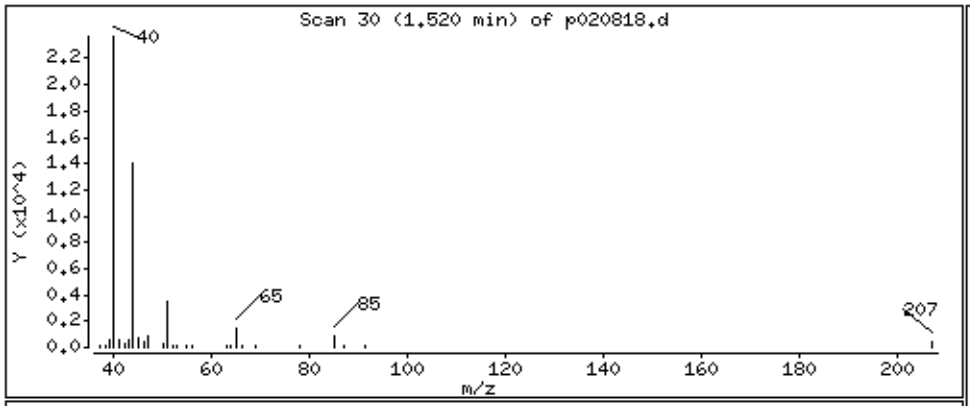
Operator: gd

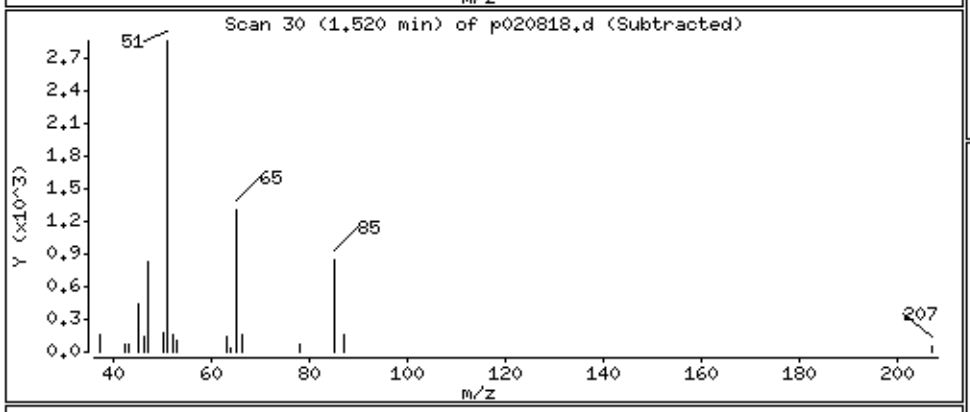
Column phase: RTX-624

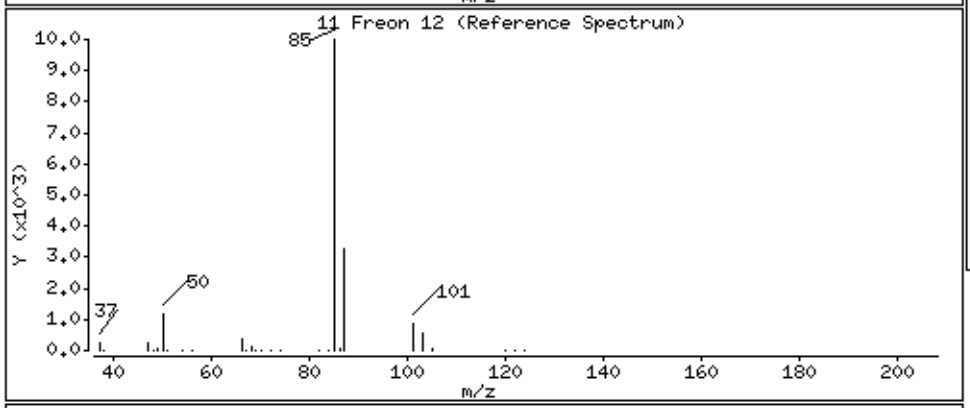
Column diameter: 0.25

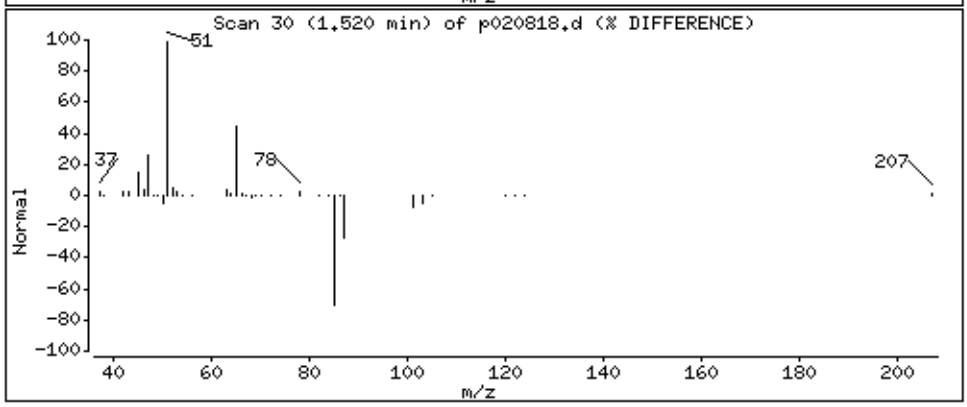
11 Freon 12

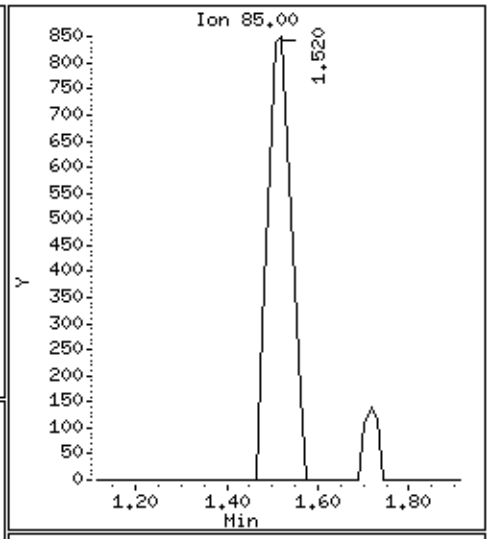
Concentration: 0.4838 PPBV

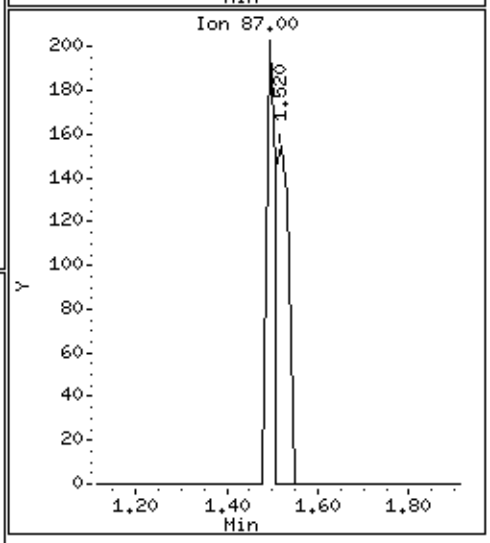












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

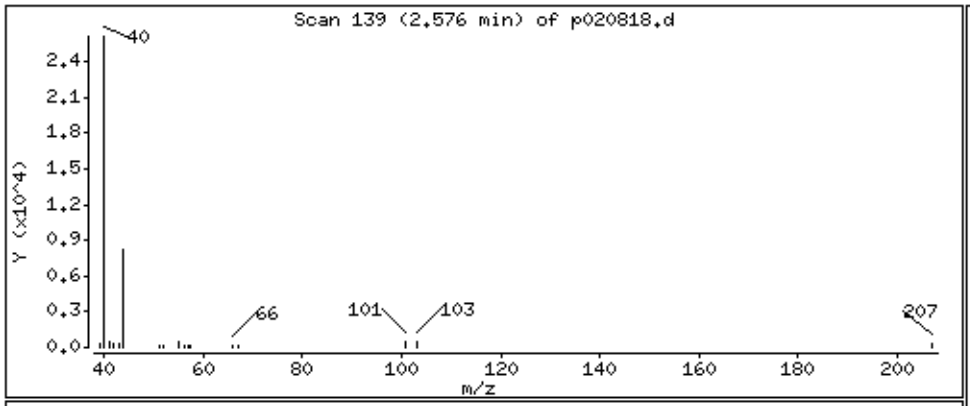
Operator: gd

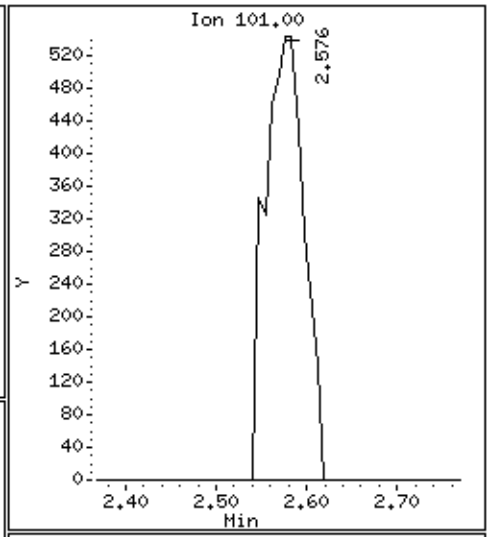
Column phase: RTX-624

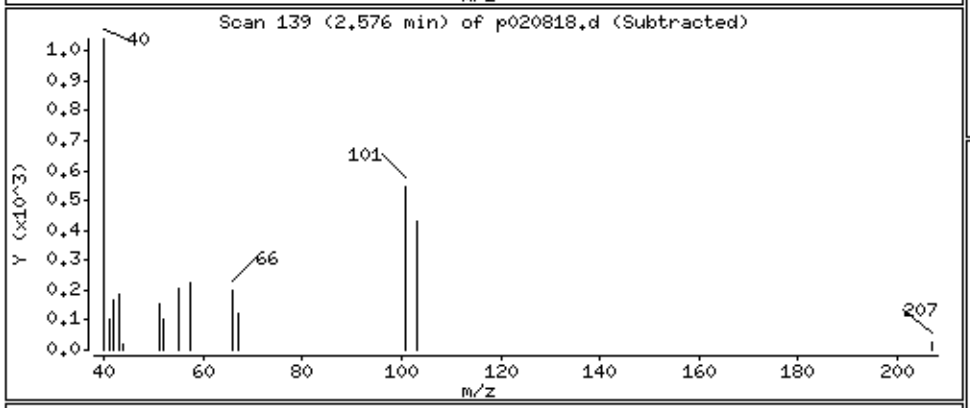
Column diameter: 0.25

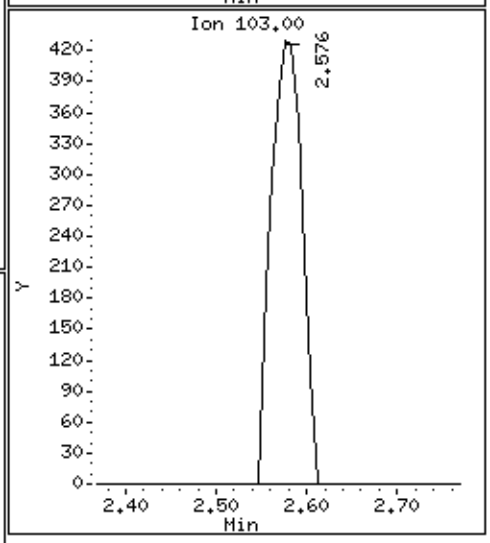
35 Freon 11

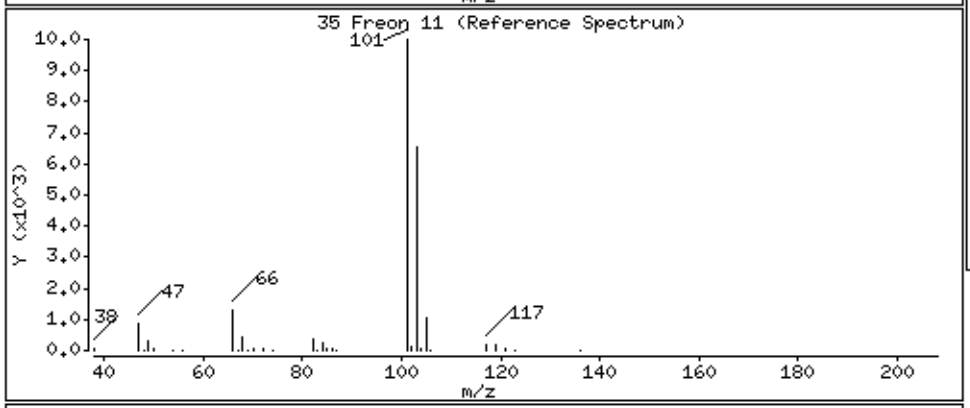
Concentration: 0.2411 PPBV

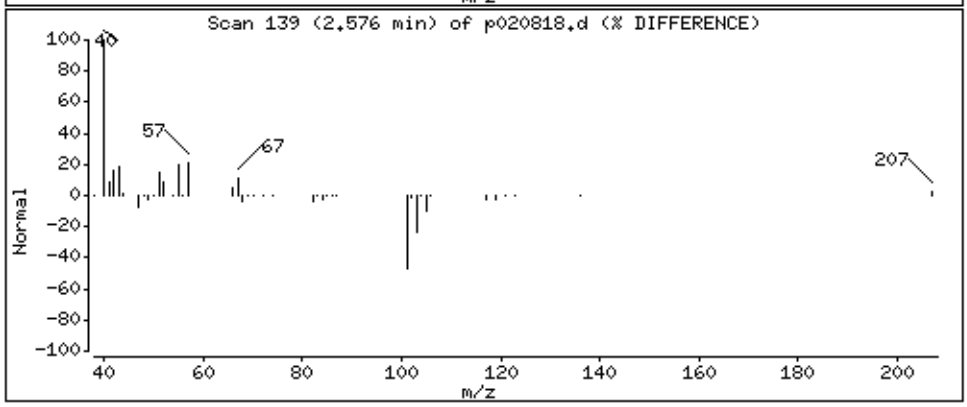












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

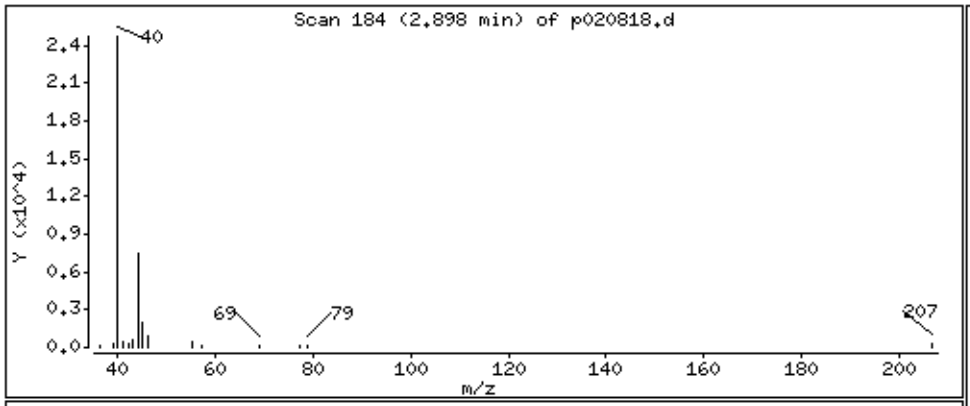
Operator: gd

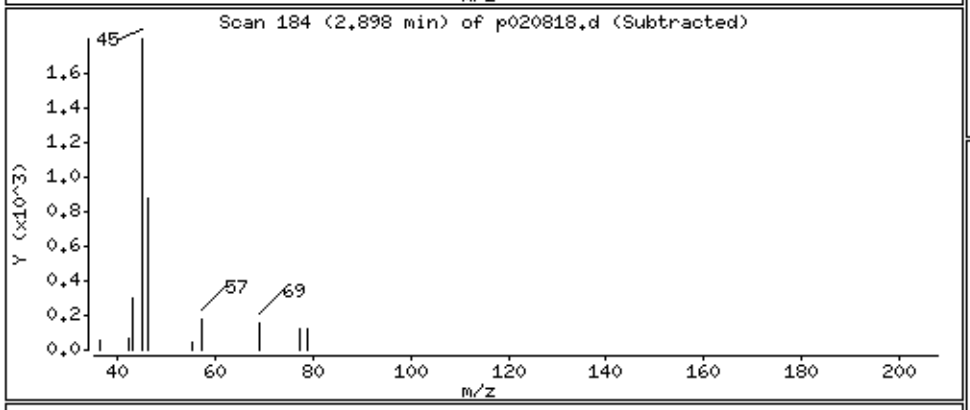
Column phase: RTX-624

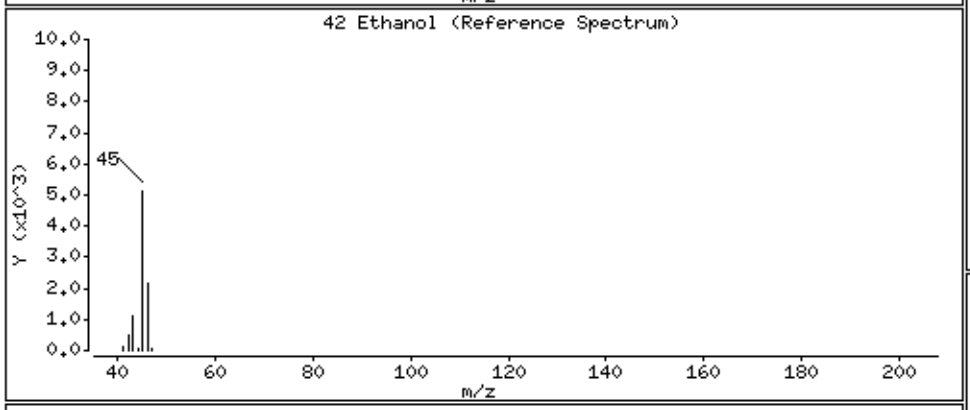
Column diameter: 0.25

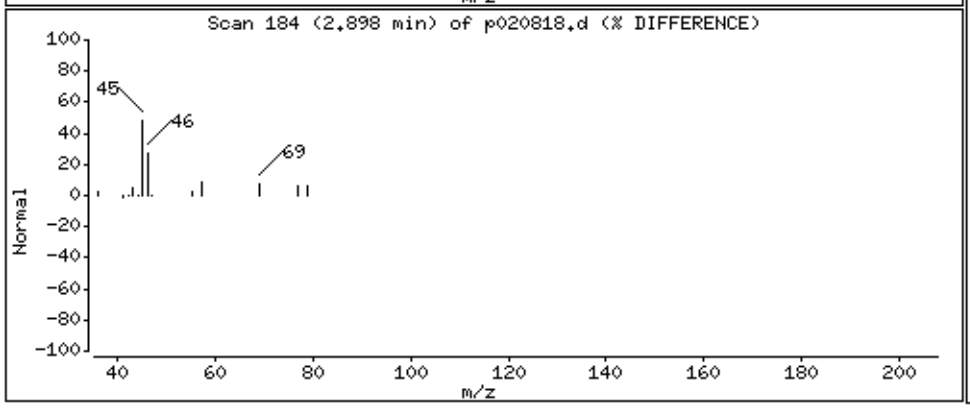
42 Ethanol

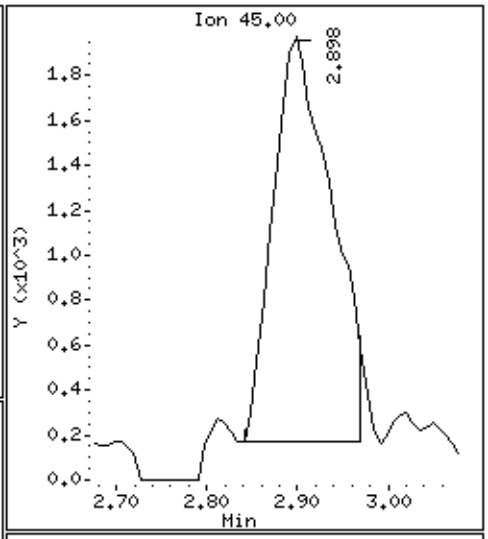
Concentration: 7.282 PPBV

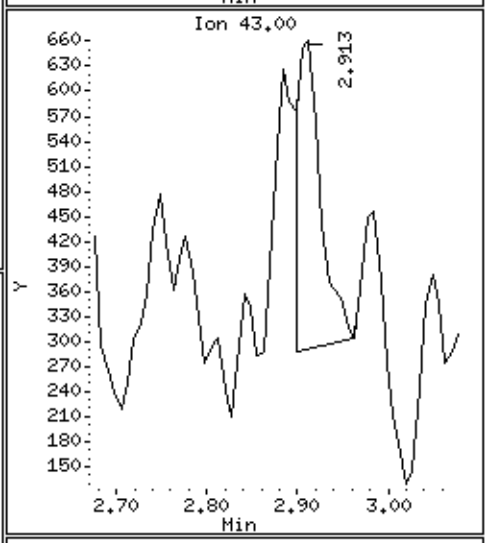


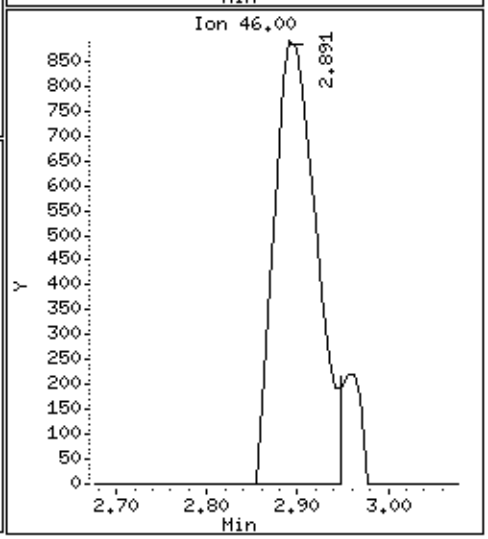












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

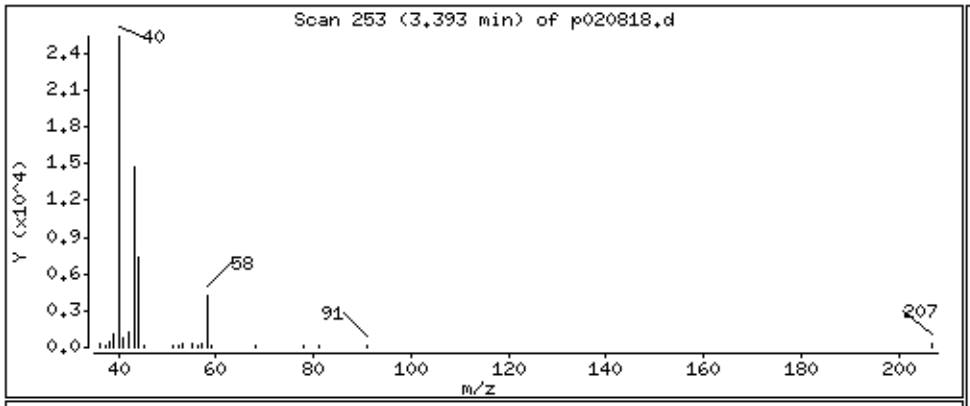
Operator: gd

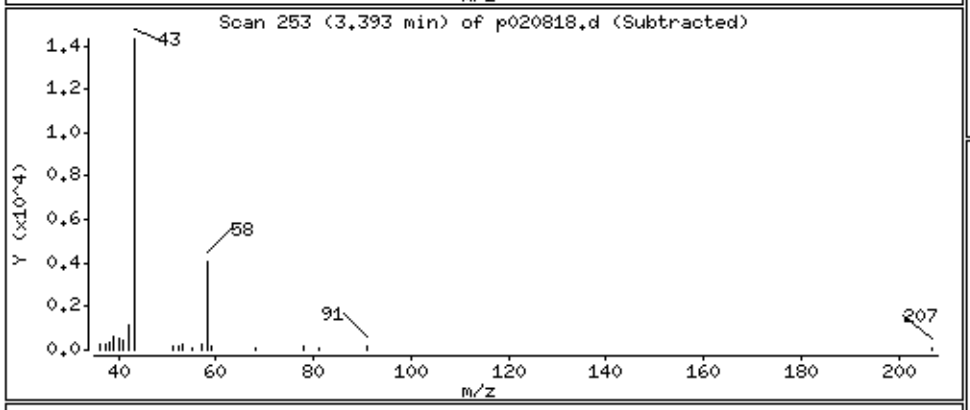
Column phase: RTX-624

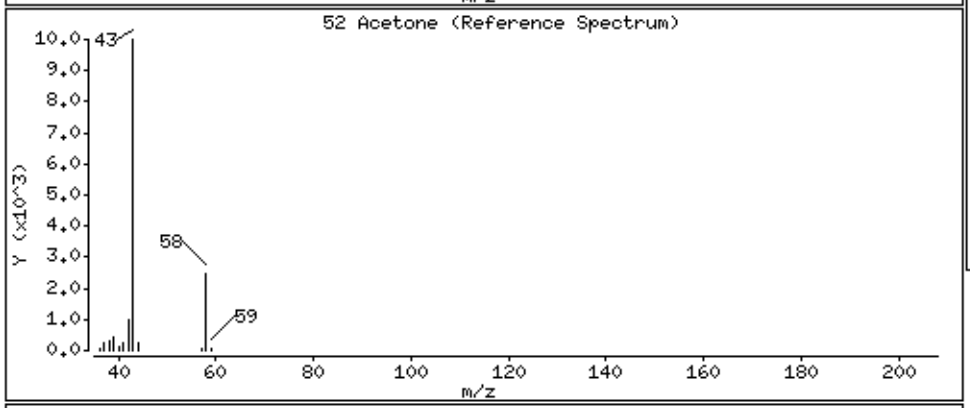
Column diameter: 0.25

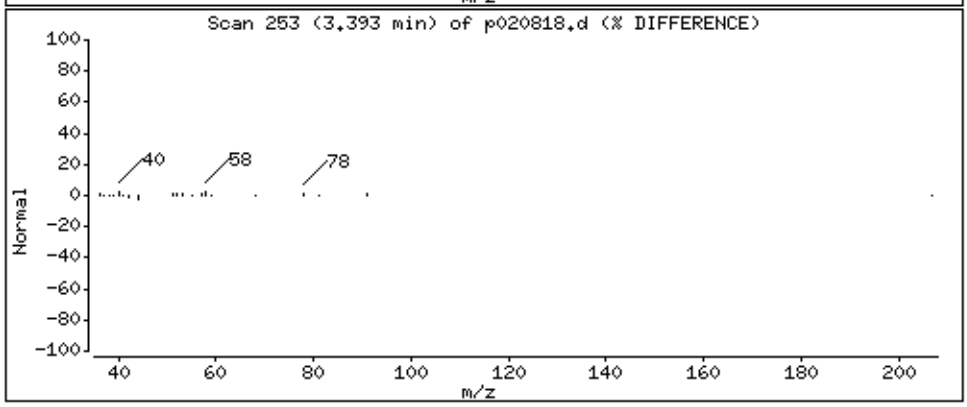
52 Acetone

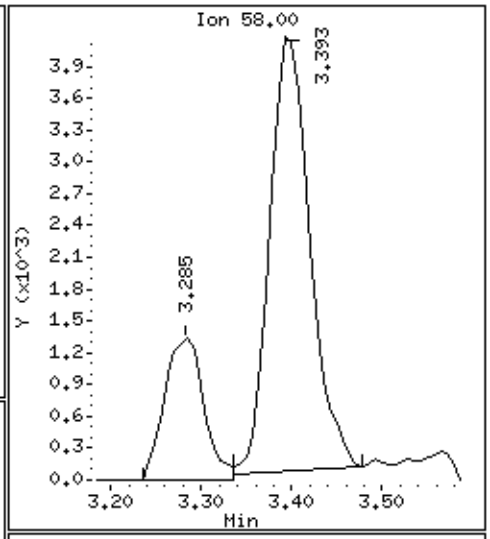
Concentration: 8.241 PPBV

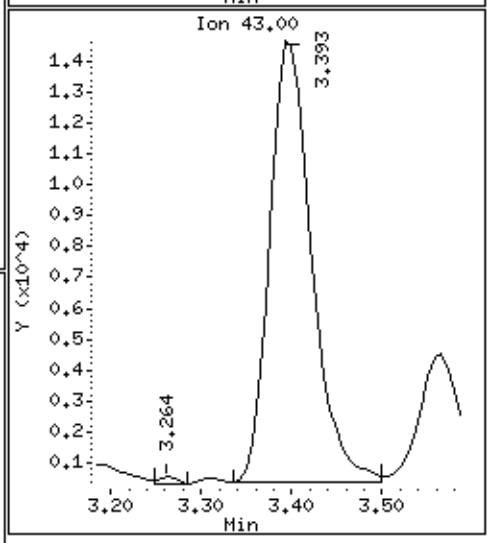












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

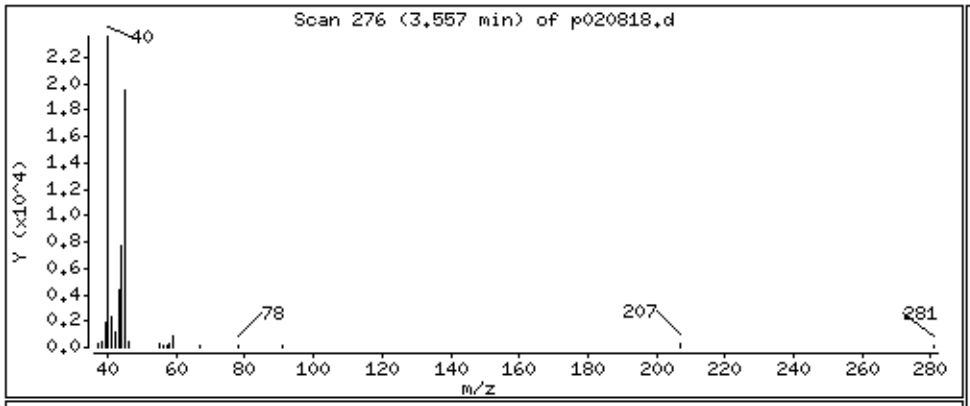
Operator: gd

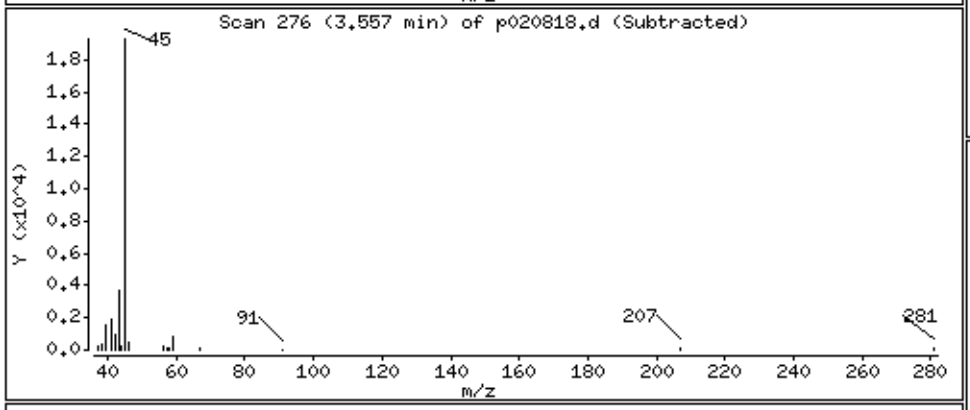
Column phase: RTX-624

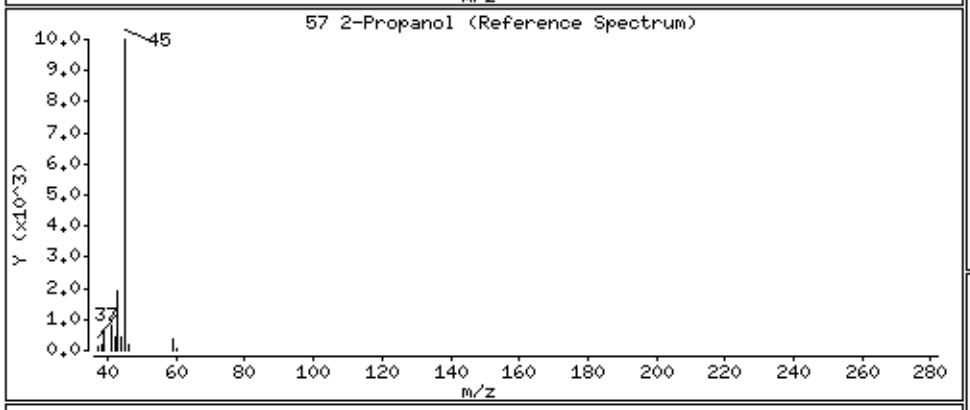
Column diameter: 0.25

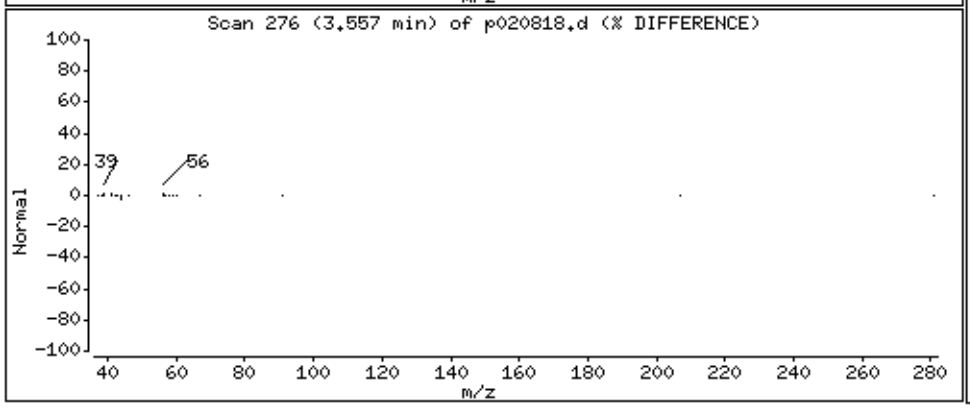
57 2-Propanol

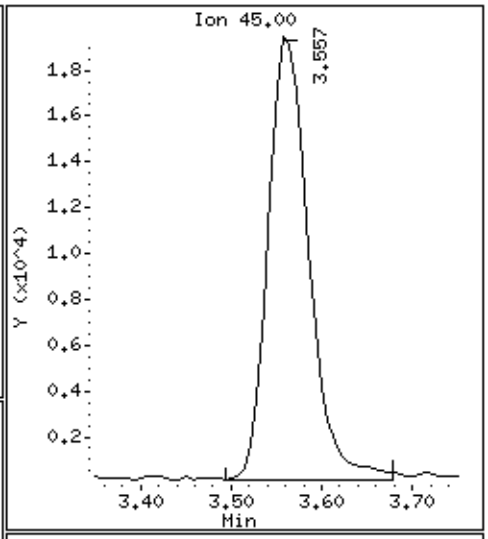
Concentration: 9.196 PPBV

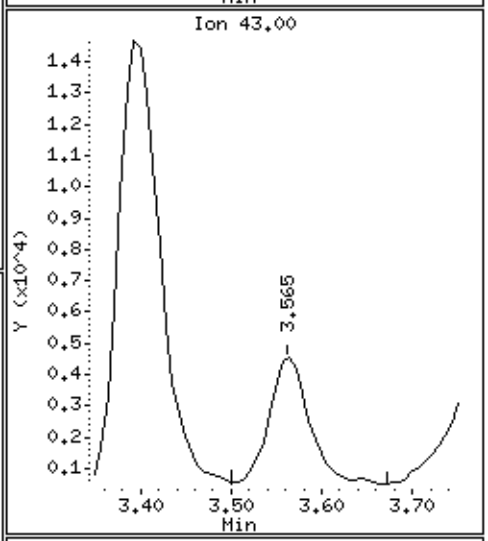


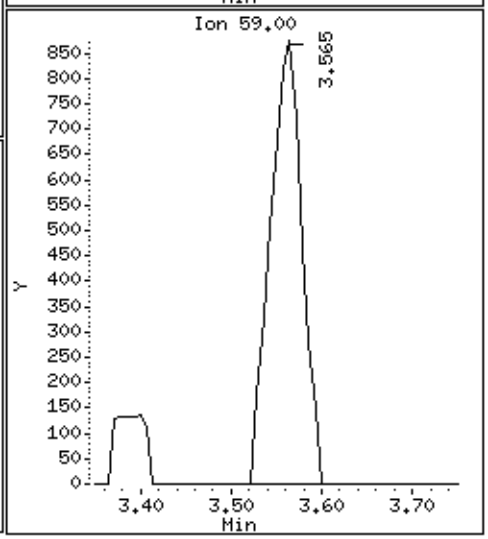












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

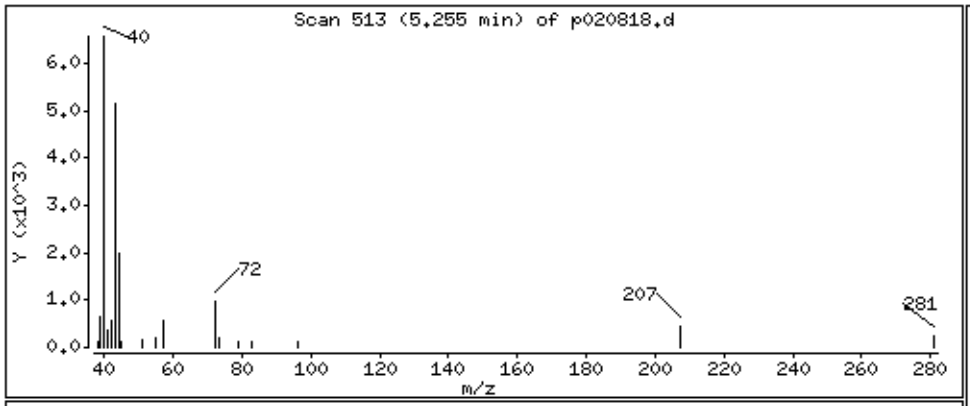
Operator: gd

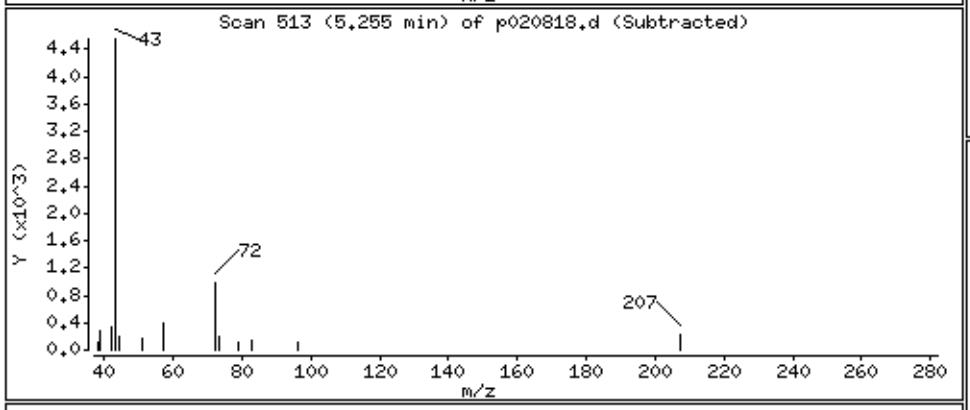
Column phase: RTX-624

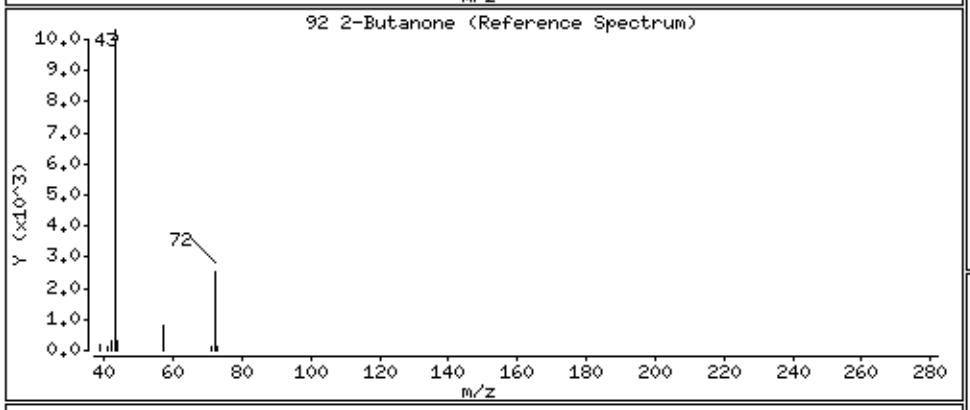
Column diameter: 0.25

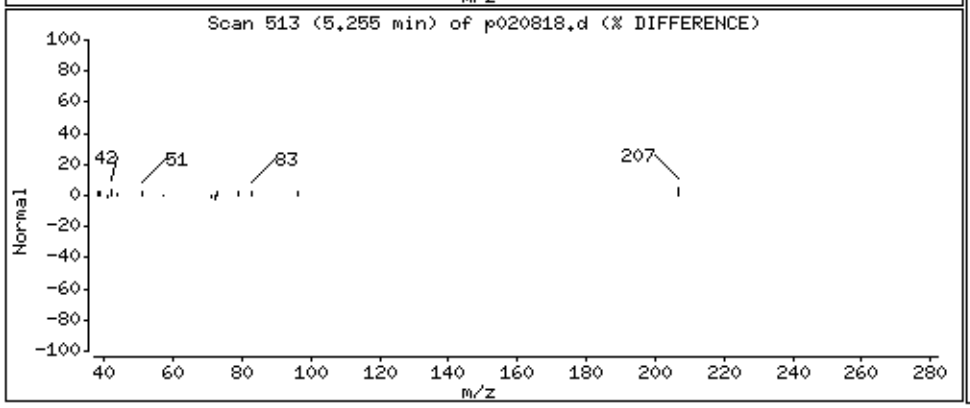
92 2-Butanone

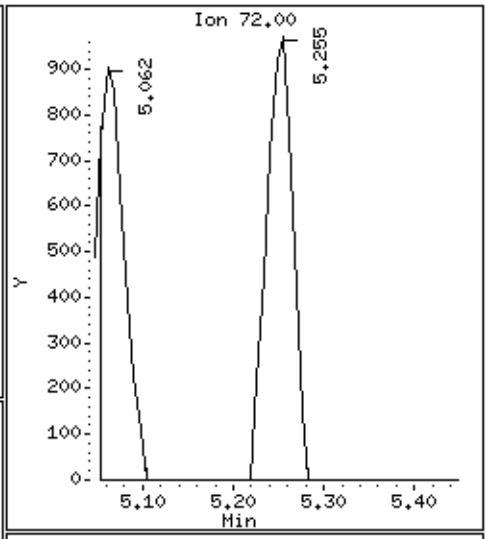
Concentration: 1.553 PPBV

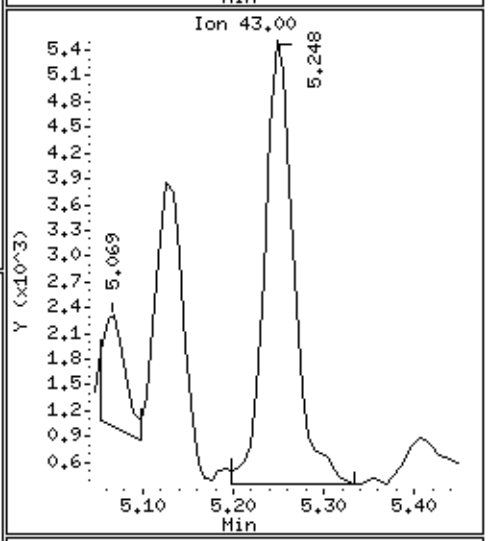


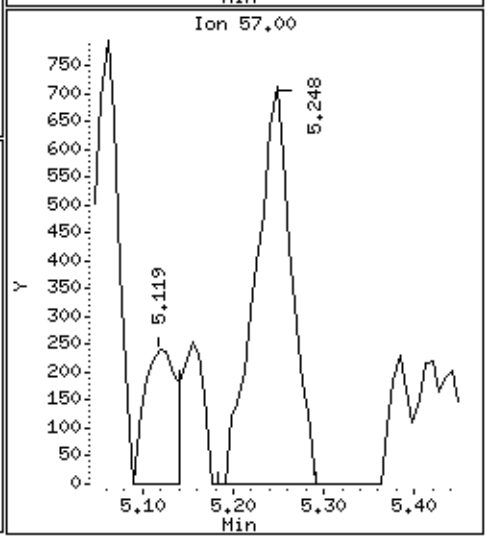












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

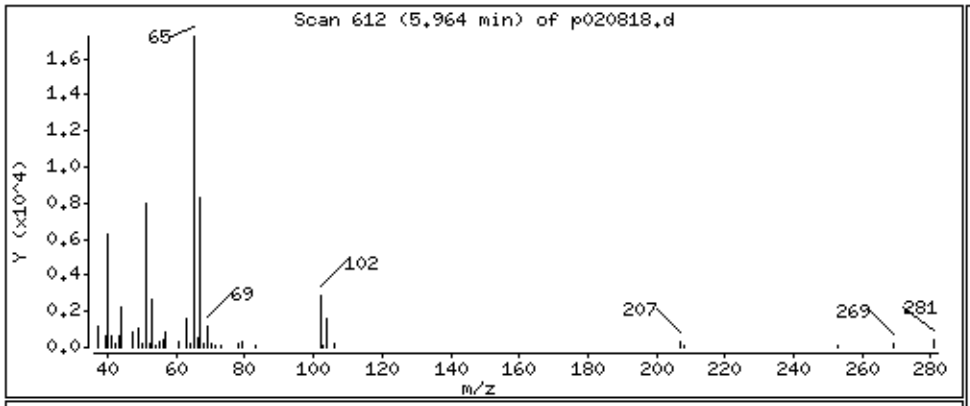
Operator: gd

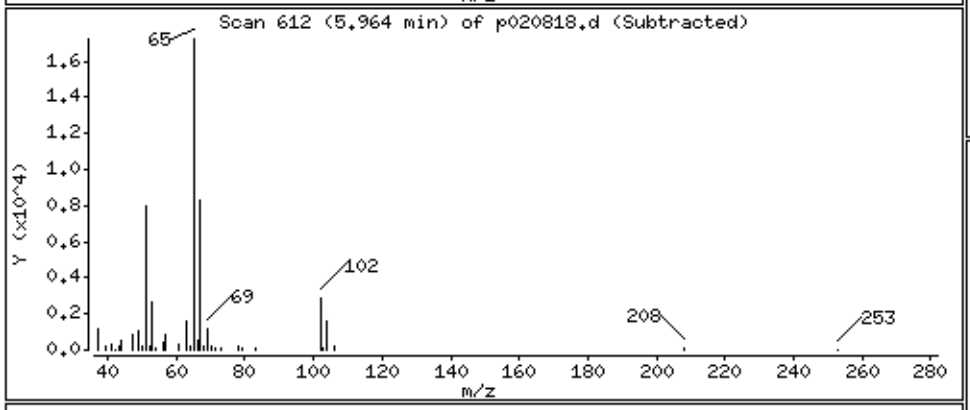
Column phase: RTX-624

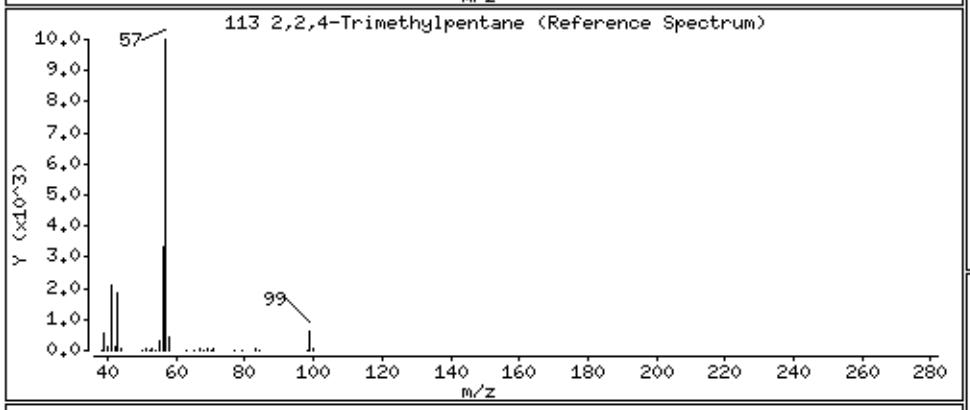
Column diameter: 0.25

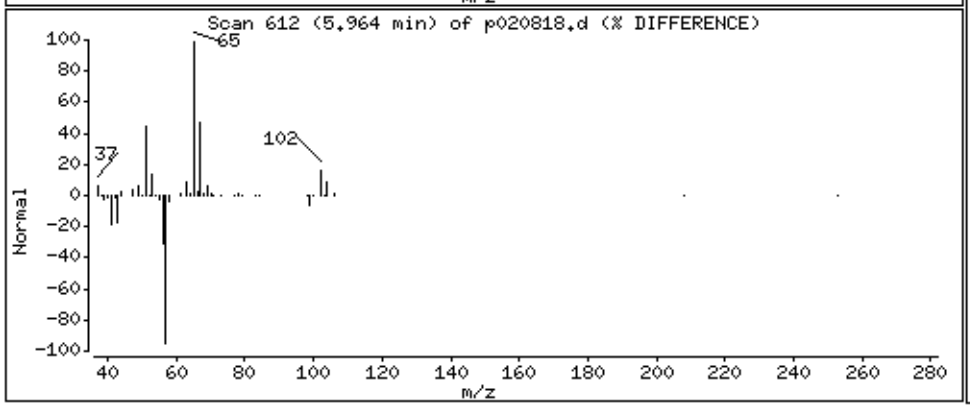
113 2,2,4-Trimethylpentane

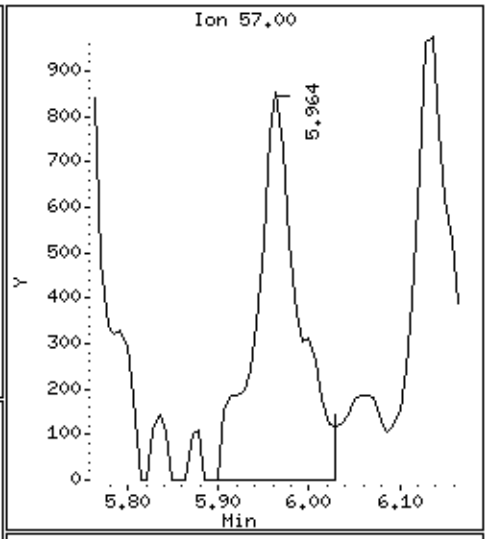
Concentration: 0.1693 PPBV

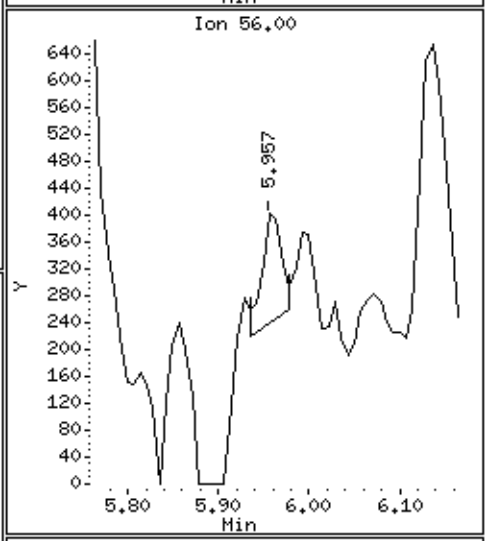


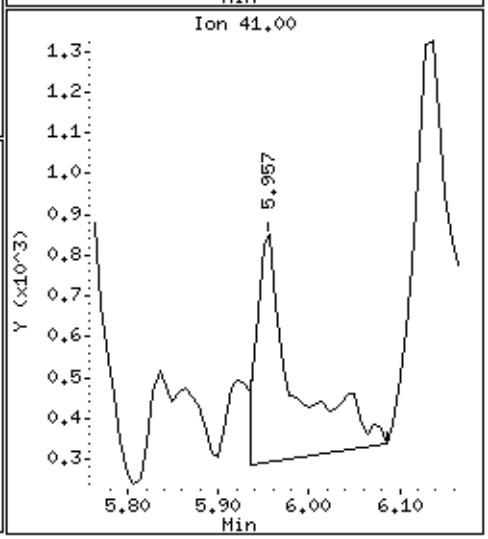












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

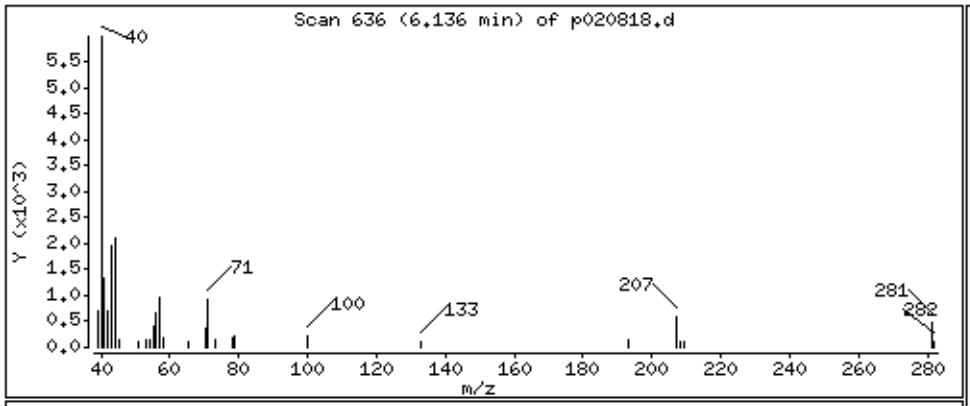
Operator: gd

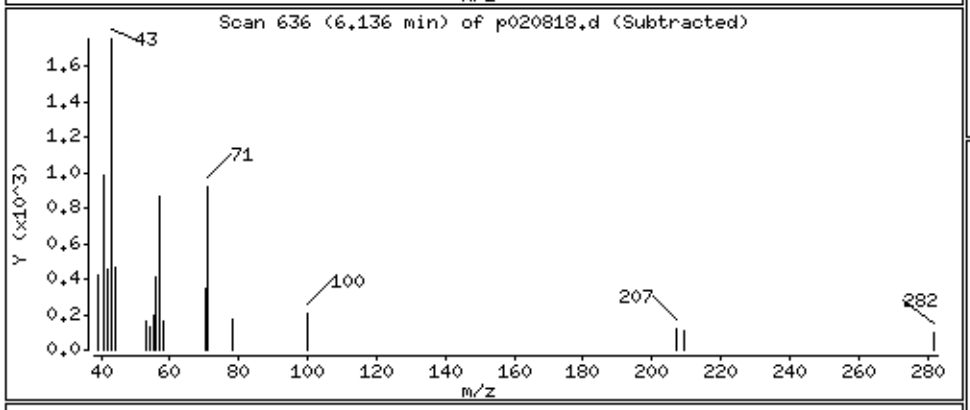
Column phase: RTX-624

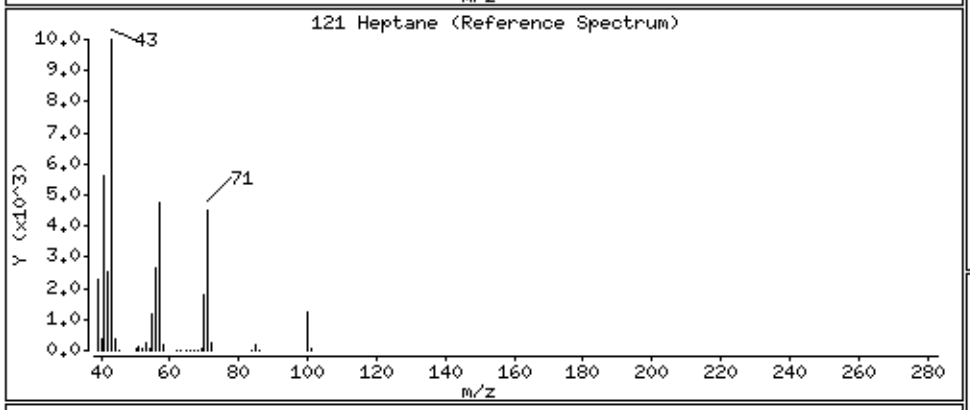
Column diameter: 0.25

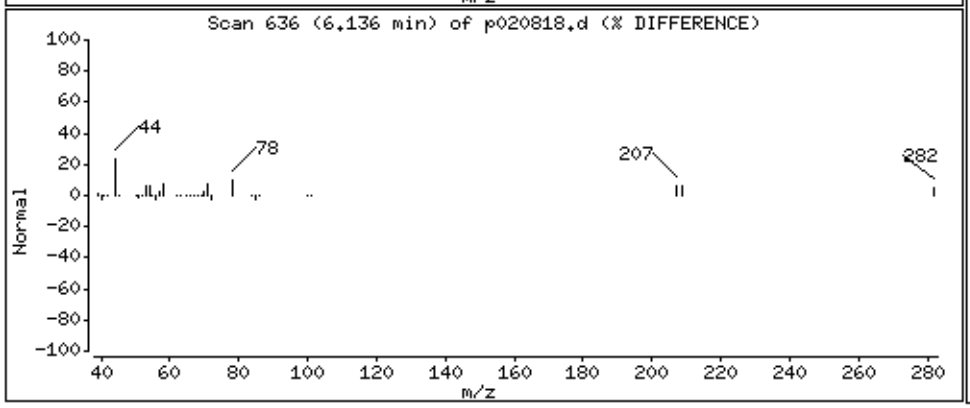
121 Heptane

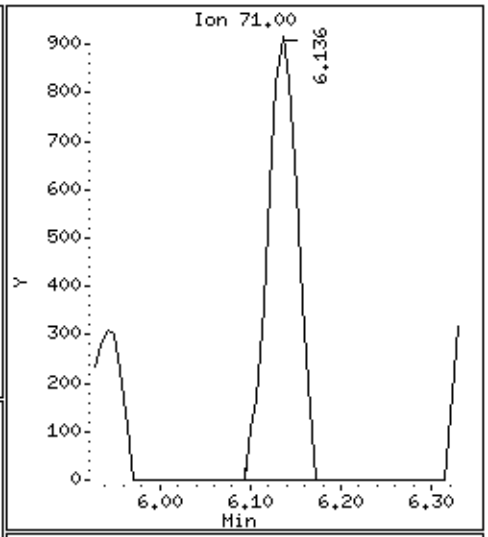
Concentration: 0.6711 PPBV

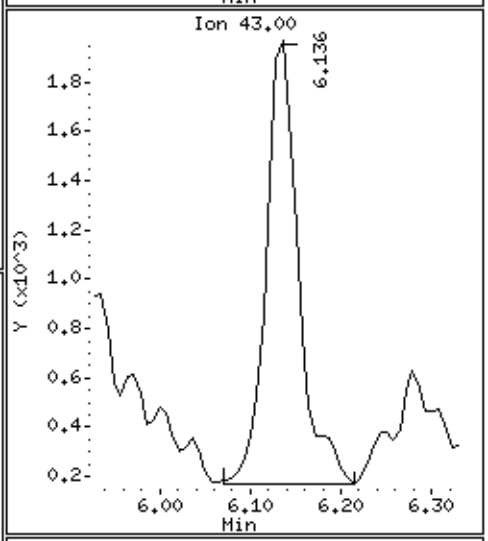


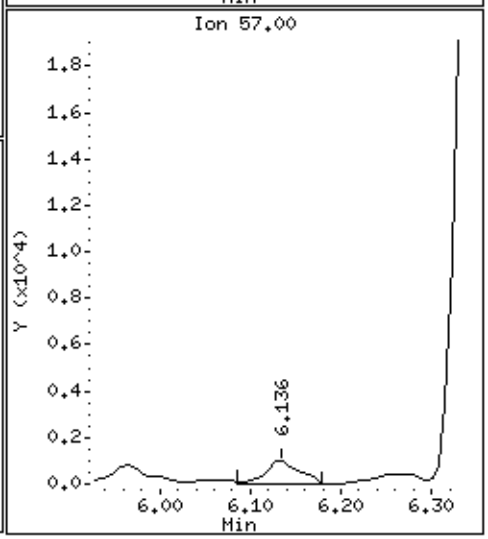












Data File: /chem/msdp.i/08feb16.b/p020818.d

Date : 08-FEB-2016 19:43

Client ID:

Instrument: msdp.i

Sample Info: 200ml 8002

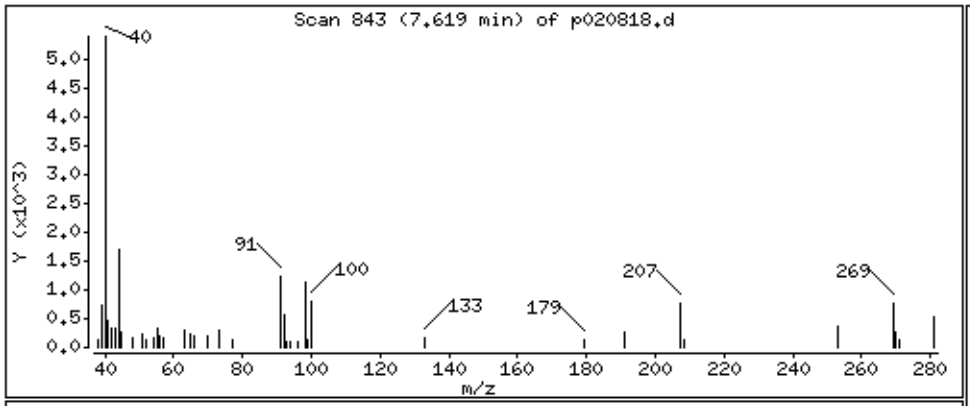
Operator: gd

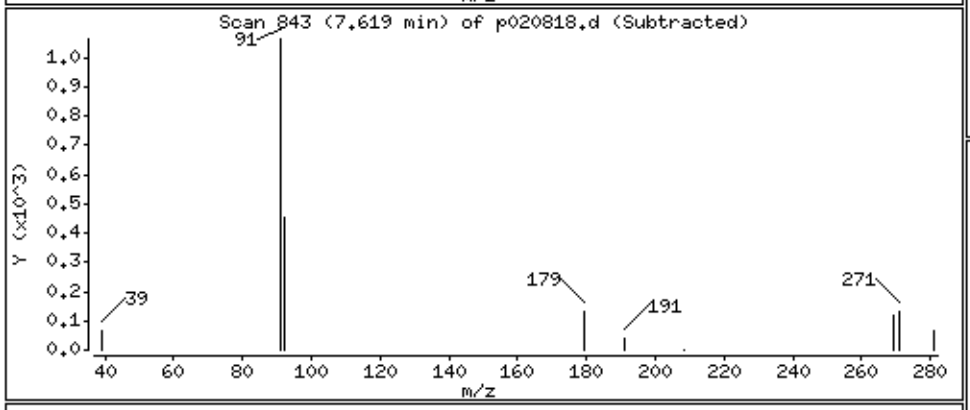
Column phase: RTX-624

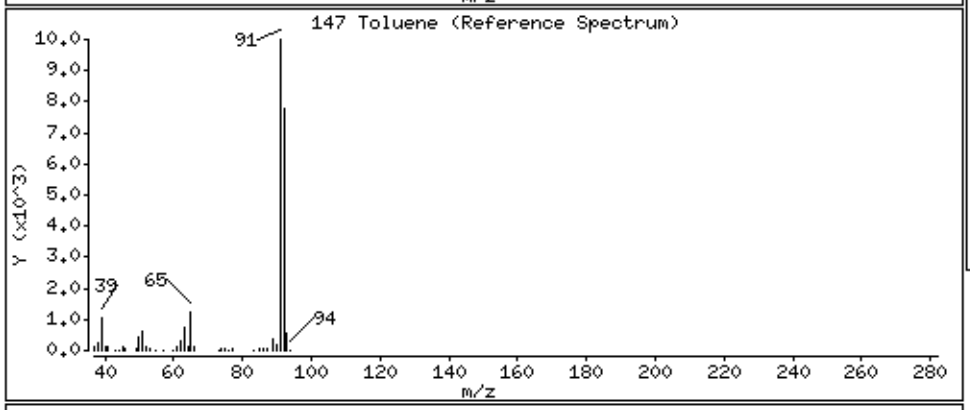
Column diameter: 0.25

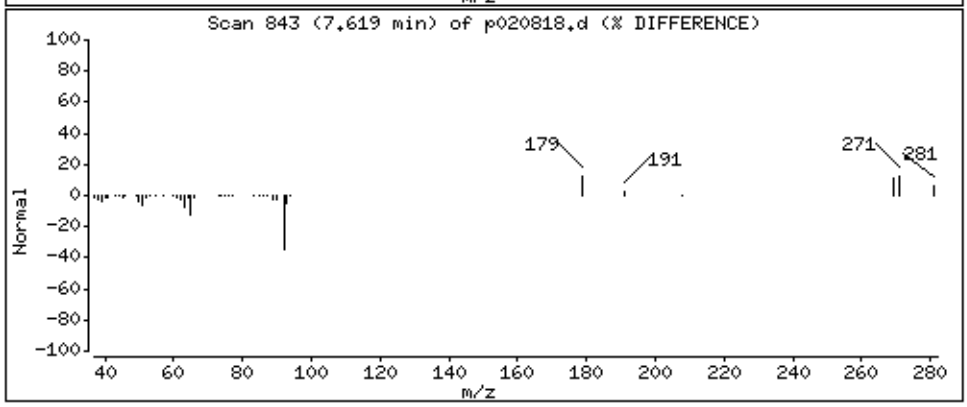
147 Toluene

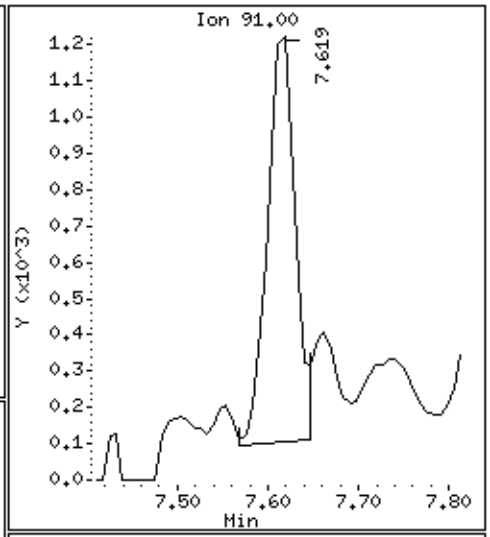
Concentration: 0.2356 PPBV

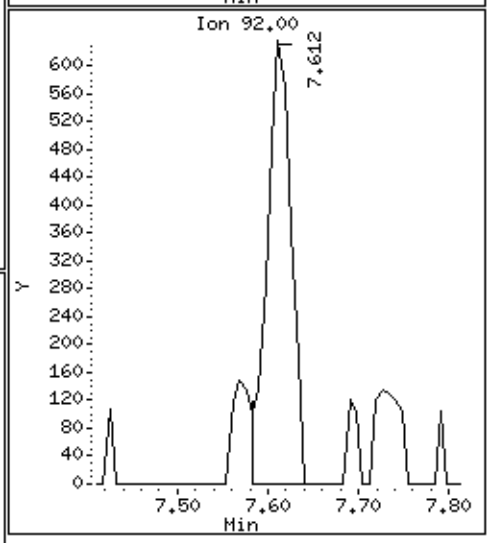












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B30-3SSV013116

Lab ID#: 1602064B-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.62 J	6.2	3.1 J
Freon 11	1.2	0.28 J	7.0	1.6 J
Ethanol	5.0	8.8	9.4	16
Acetone	12	7.7 J	30	18 J
2-Propanol	5.0	9.8	12	24
Heptane	1.2	0.72 J	5.1	3.0 J
Toluene	1.2	0.24 J	4.7	0.91 J

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Client Sample ID: B30-3SSV013116

Lab ID#: 1602064B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020817**	**Date of Collection:**	**1/31/16 1:00:00 PM**
Dil. Factor:	**2.51**	**Date of Analysis:**	**2/8/16 07:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.62 J	6.2	3.1 J
Freon 114	1.2	Not Detected	8.8	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	2.8	Not Detected
Bromomethane	12	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.2	0.28 J	7.0	1.6 J
Ethanol	5.0	8.8	9.4	16
Freon 113	1.2	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Acetone	12	7.7 J	30	18 J
2-Propanol	5.0	9.8	12	24
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	12	Not Detected	44	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.7	Not Detected
Chloroform	1.2	Not Detected	6.1	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Cyclohexane	1.2	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.9	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.1	Not Detected
Heptane	1.2	0.72 J	5.1	3.0 J
Trichloroethene	1.2	Not Detected	6.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.1	Not Detected
Toluene	1.2	0.24 J	4.7	0.91 J
trans-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	Not Detected	8.5	Not Detected
2-Hexanone	5.0	Not Detected	20	Not Detected

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Client Sample ID: B30-3SSV013116

Lab ID#: 1602064B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020817**	**Date of Collection:**	**1/31/16 1:00:00 PM**
Dil. Factor:	**2.51**	**Date of Analysis:**	**2/8/16 07:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.6	Not Detected
Chlorobenzene	1.2	Not Detected	5.8	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.6	Not Detected
Propylbenzene	1.2	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
Naphthalene	2.5	Not Detected	13	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	95	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020817.d
Lab Smp Id: 1602064B-13A
Inj Date : 08-FEB-2016 19:17
Operator : gd Inst ID: msdp.i
Smp Info : 200ml 34578
Misc Info : 6.1 Hg->14.7 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 13-Feb-2016 11:45 dbailey Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 3
Dil Factor: 2.51000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.51000	Dilution Factor

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	143882	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	108265			49.06- 109.06	75.25
5.456	5.449 (1.000)	49	211692			124.20- 184.20	147.13
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	558645	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	78015			0.00- 44.57	13.97
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.779 (1.000)	117	532187	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	278128			20.36- 80.36	52.26
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	199686	23.5177	23.518	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	95676			26.68- 86.68	47.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.555	7.555 (1.191)	98	556921	24.9519	24.952	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	59031			0.00- 40.62	10.60
7.555	7.555 (1.191)	100	364639			36.74- 96.74	65.47
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	408042	23.7738	23.774	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	395307			65.95- 125.95	96.88
9.761	9.761 (1.111)	176	394355			65.80- 125.80	96.65
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	3950	0.24678	0.6194	80.00- 120.00	100.00(a)
1.507	1.507 (0.276)	87	789			1.76- 61.76	19.98
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	1876	0.11247	0.2823	80.00- 120.00	100.00(a)
2.569	2.569 (0.471)	103	1205			34.50- 94.50	64.25
42 Ethanol					CAS #: 64-17-5		
2.884	2.877 (0.529)	45	9604	3.50890	8.807	80.00- 120.00	100.00
2.884	2.877 (0.529)	43	1962			0.00- 50.77	20.44
2.891	2.877 (0.530)	46	3036			8.68- 68.68	31.61
52 Acetone					CAS #: 67-64-1		
3.393	3.386 (0.622)	58	11671	3.07684	7.723	80.00- 120.00	100.00(a)
3.393	3.386 (0.622)	43	35313			323.05- 383.05	302.56
57 2-Propanol					CAS #: 67-63-0		
3.558	3.550 (0.652)	45	63276	3.90996	9.814	80.00- 120.00	100.00
3.558	3.550 (0.652)	43	12410			0.00- 49.72	19.61
3.558	3.550 (0.652)	59	1676			0.00- 33.36	2.65
121 Heptane					CAS #: 142-82-5		
6.136	6.129 (0.967)	71	2113	0.28710	0.7206	80.00- 120.00	100.00(a)
6.136	6.129 (0.967)	43	5764			172.43- 232.43	272.74
6.129	6.129 (0.966)	57	3116			85.51- 145.51	147.44
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	2288	0.09612	0.2412	80.00- 120.00	100.00(a)
7.612	7.612 (1.200)	92	1496			27.38- 87.38	65.41

QC Flag Legend

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

Report Date: 15-Feb-2016 13:58

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020817.d
Lab Smp Id: 1602064B-13A
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 6.1 Hg->14.7 psi

Calibration Date: 08-FEB-2016
Calibration Time: 10:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	143882	-5.65
123 1,4-Difluorobenze	608067	364840	851294	558645	-8.13
163 Chlorobenzene-d5	577195	346317	808073	532187	-7.80

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	8.79	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: 15-Feb-2016 13:58

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1602064B-13A
Level: LOW
Operator: gd
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 6.1 Hg->14.7 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	23.518	94.07	70-130
$ 146 Toluene-d8	25.000	24.952	99.81	70-130
$ 177 4-Bromofluorobenze	25.000	23.774	95.10	70-130

Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

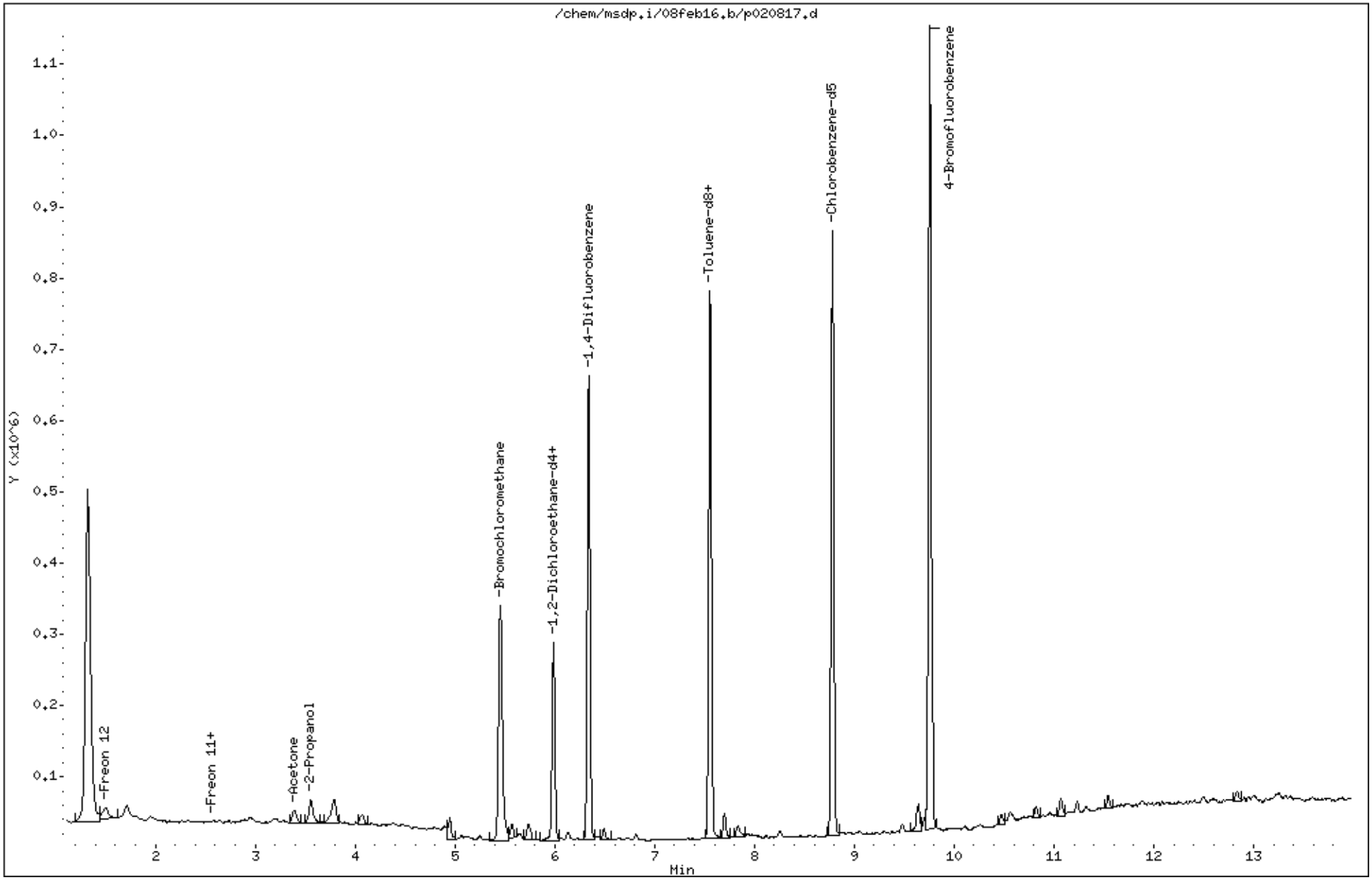
Sample Info: 200ml 34578

Column phase: RTX-624

Instrument: msdp.i

Operator: gd

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34578

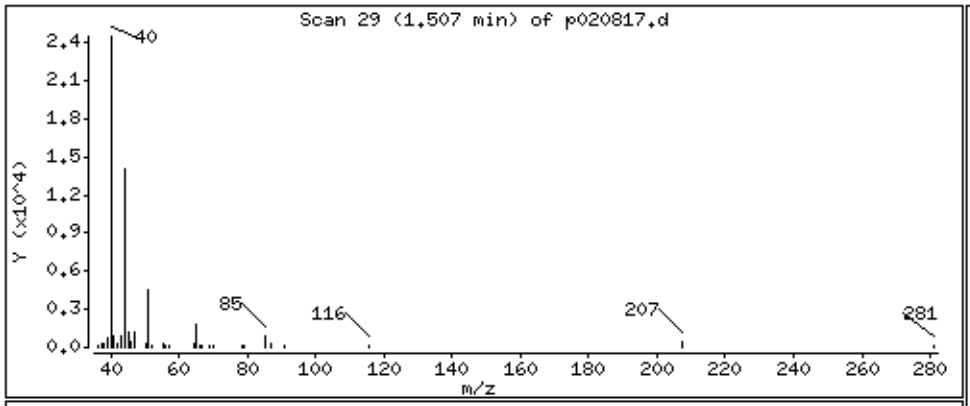
Operator: gd

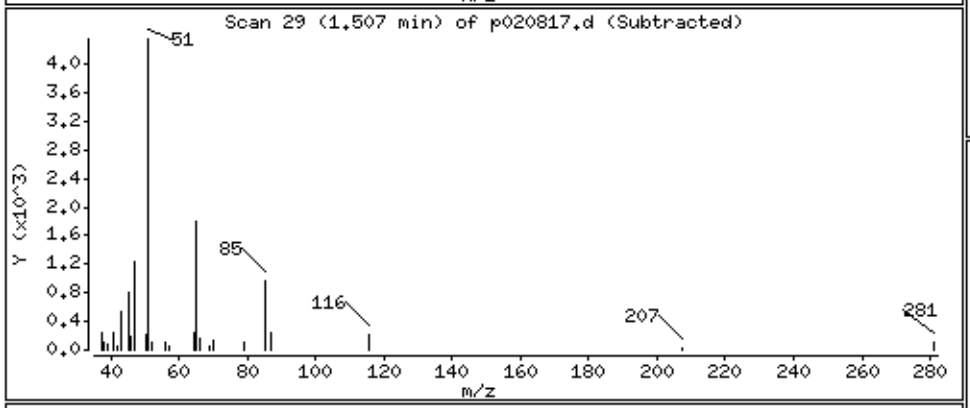
Column phase: RTX-624

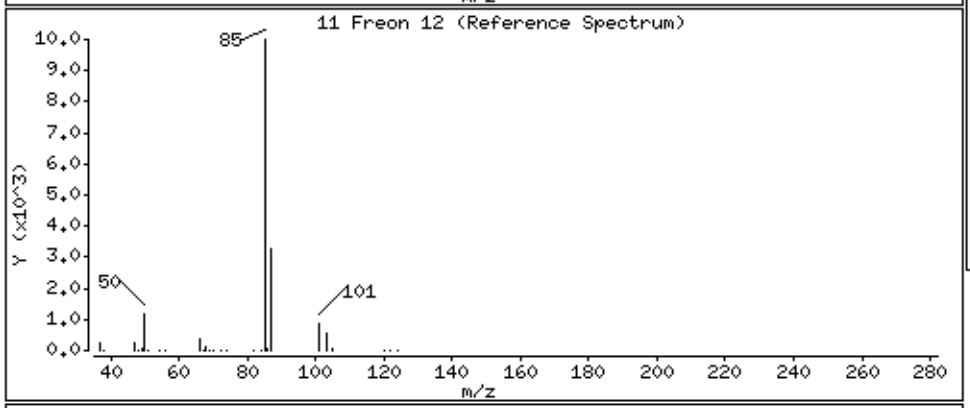
Column diameter: 0.25

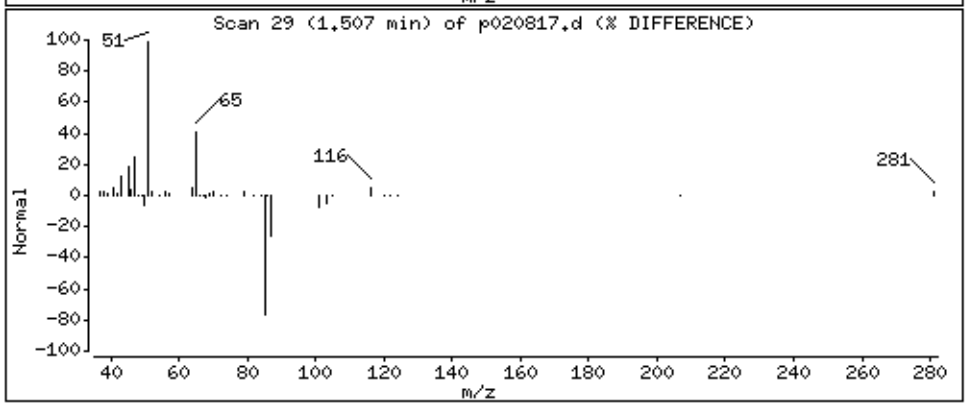
11 Freon 12

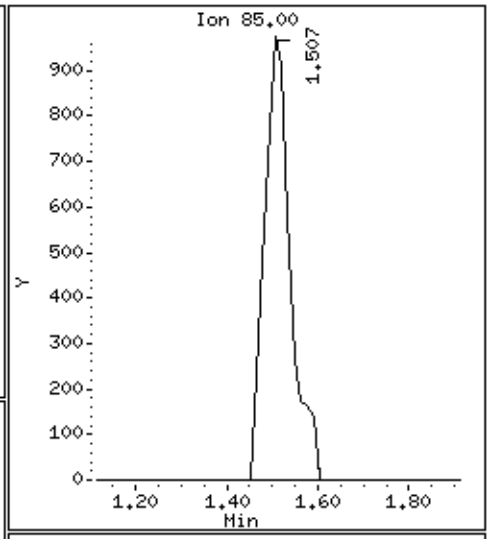
Concentration: 0.6194 PPBV

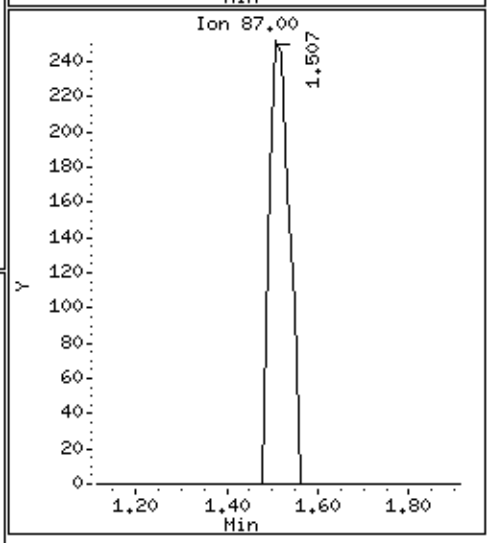












Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34578

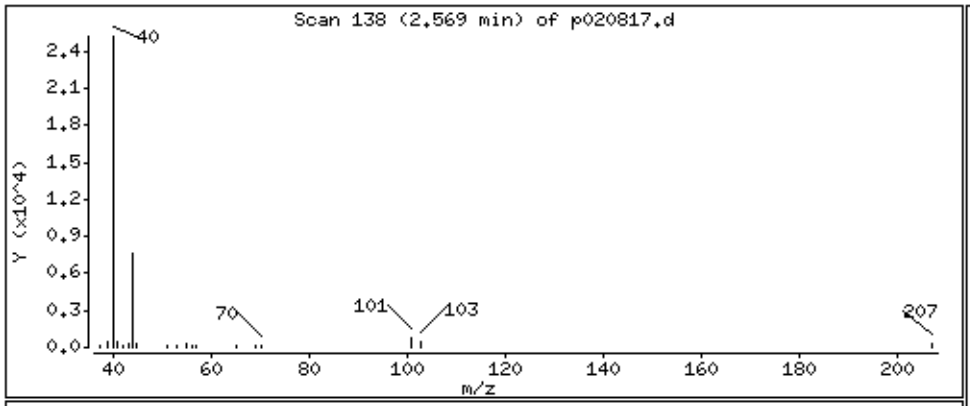
Operator: gd

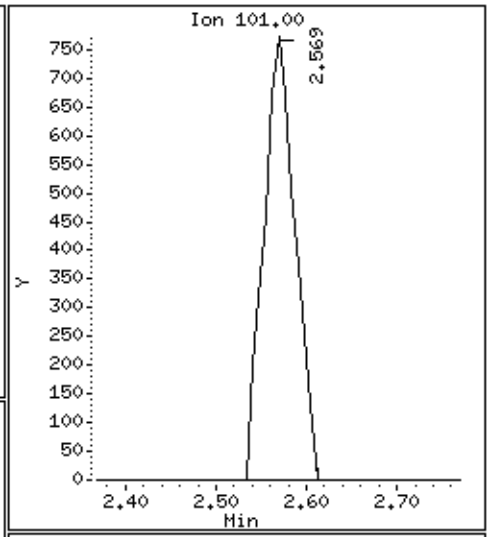
Column phase: RTX-624

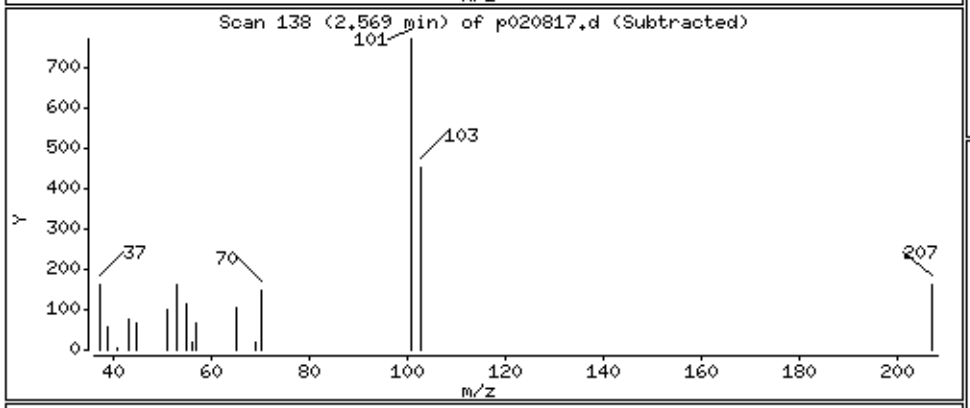
Column diameter: 0.25

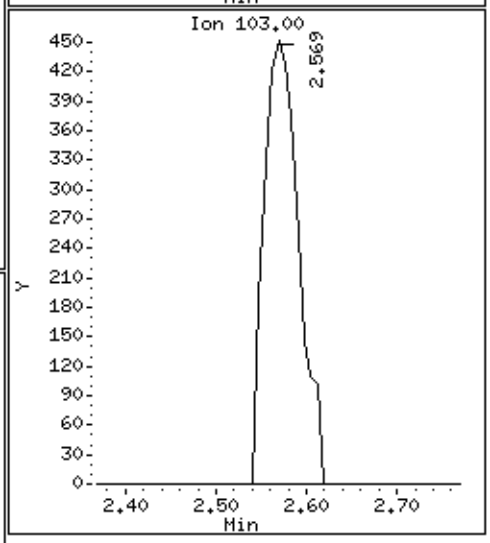
35 Freon 11

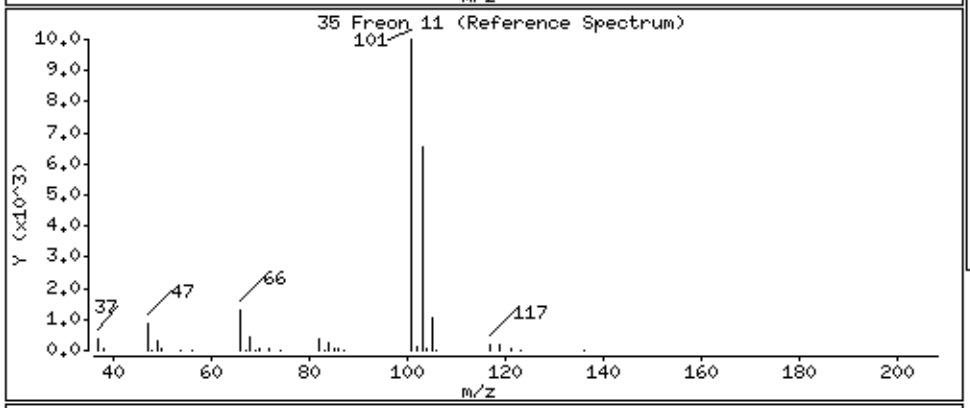
Concentration: 0.2823 PPBV

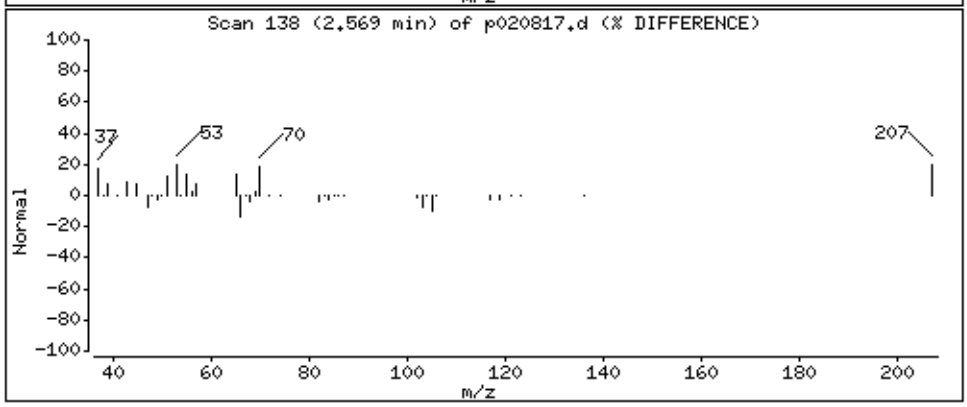












Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34578

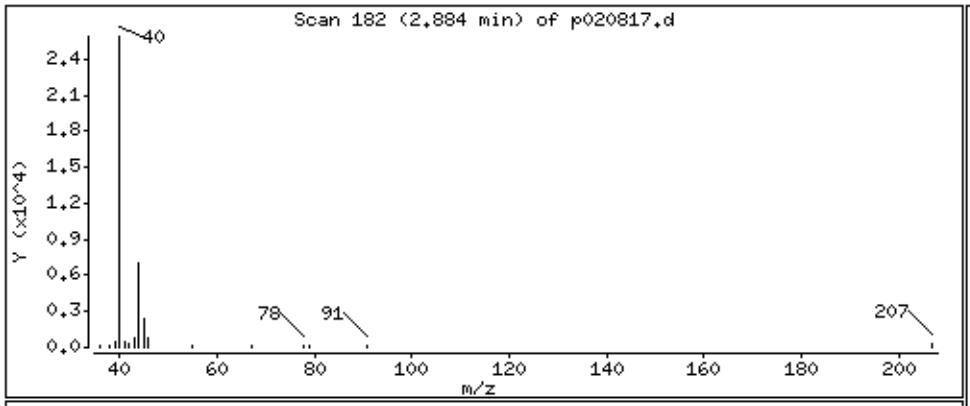
Operator: gd

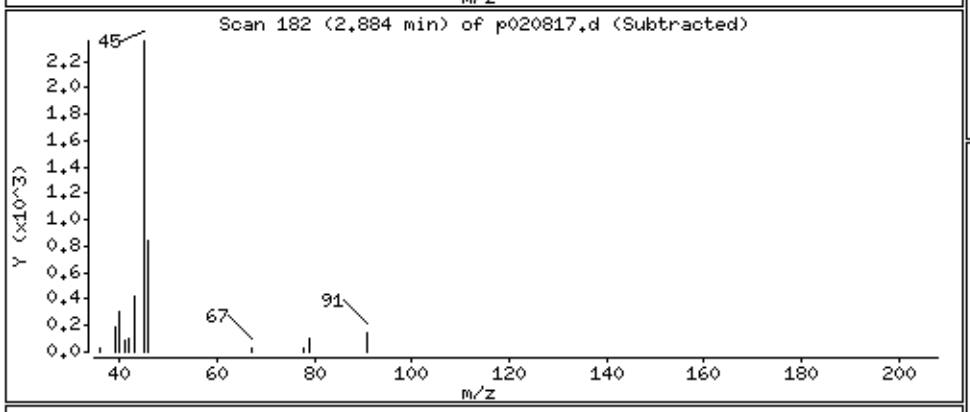
Column phase: RTX-624

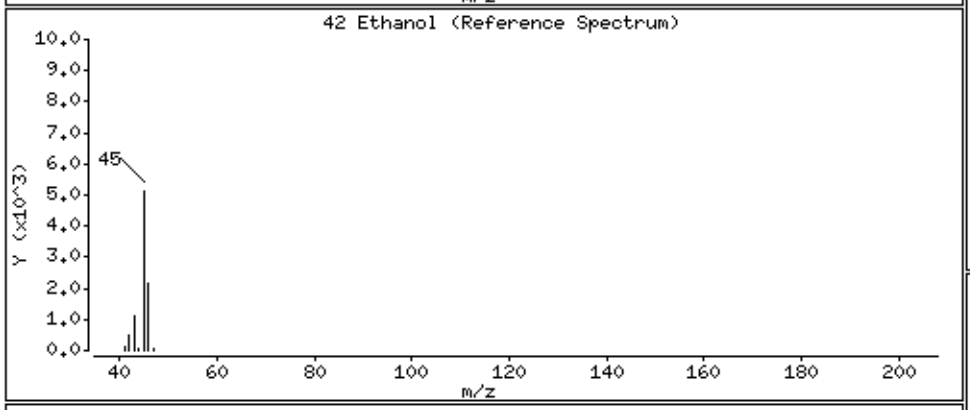
Column diameter: 0.25

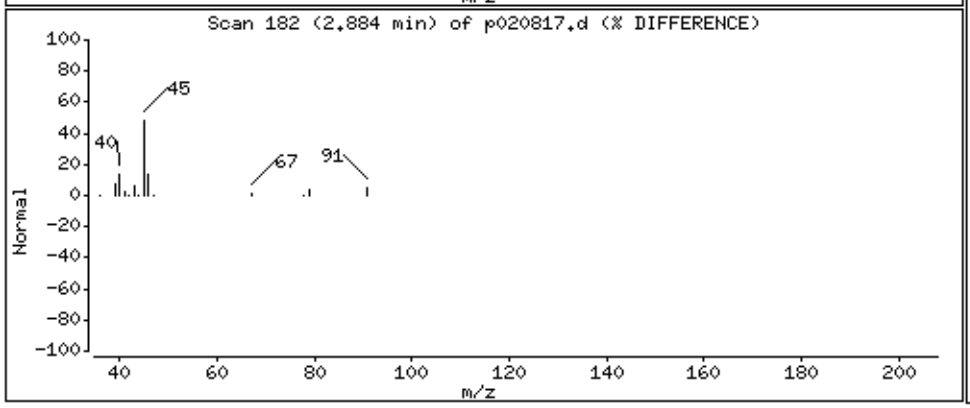
42 Ethanol

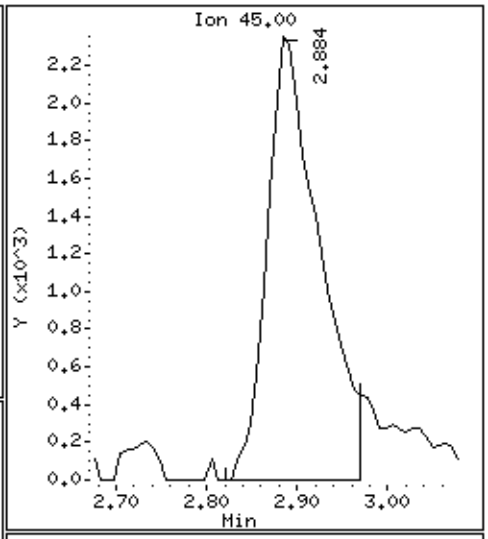
Concentration: 8.807 PPBV

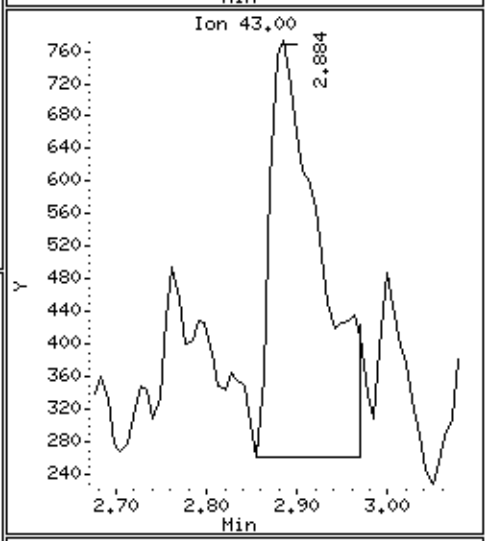


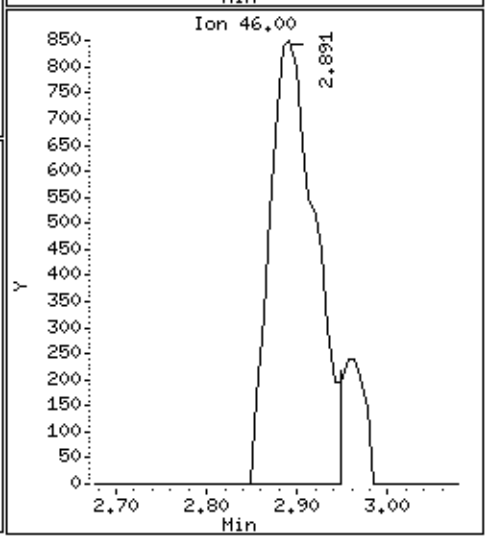












Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34578

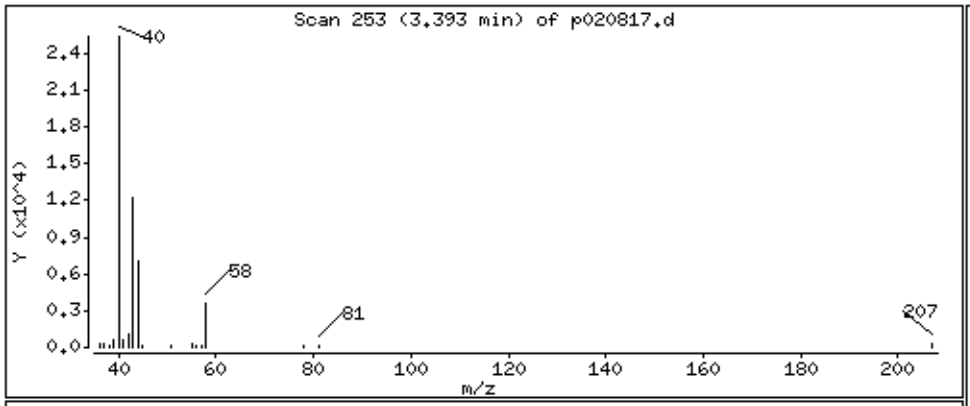
Operator: gd

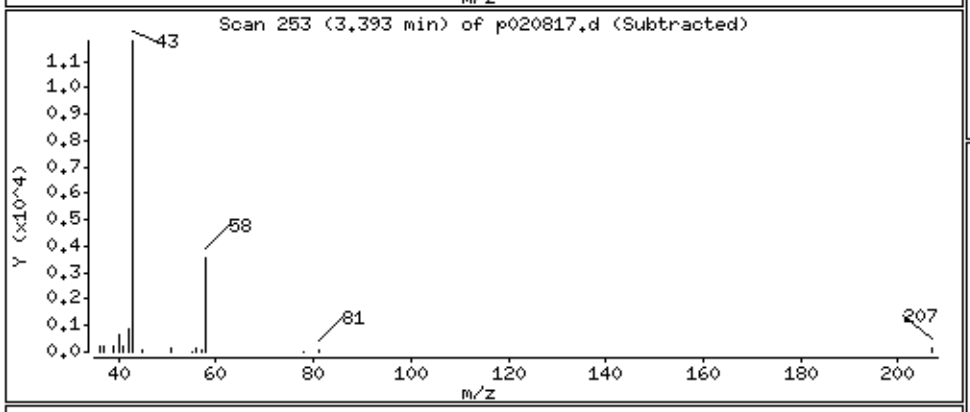
Column phase: RTX-624

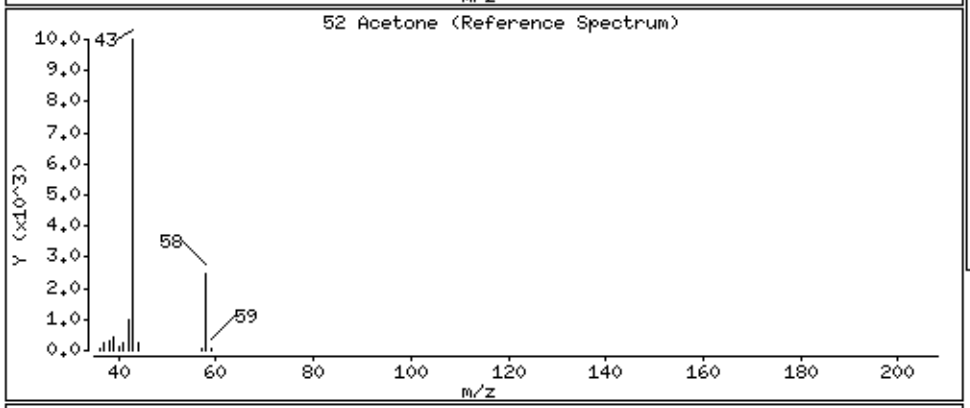
Column diameter: 0.25

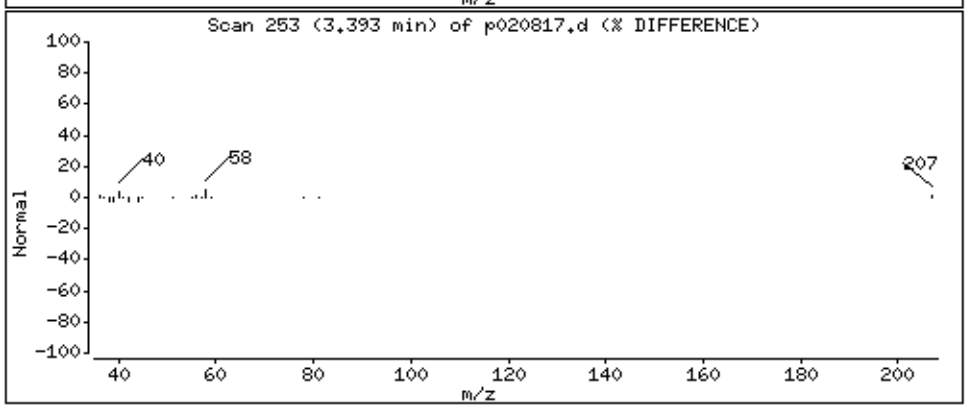
52 Acetone

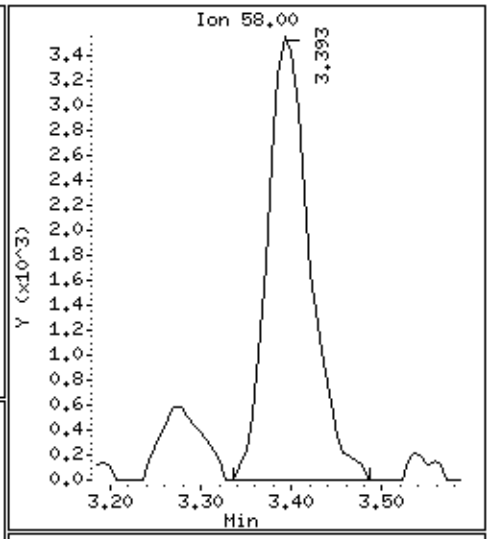
Concentration: 7.723 PPBV

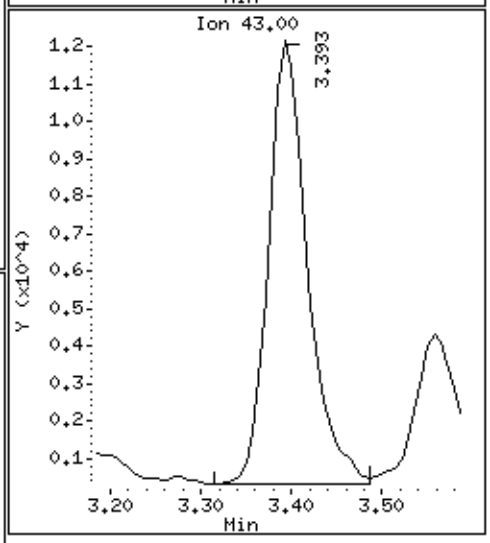












Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34578

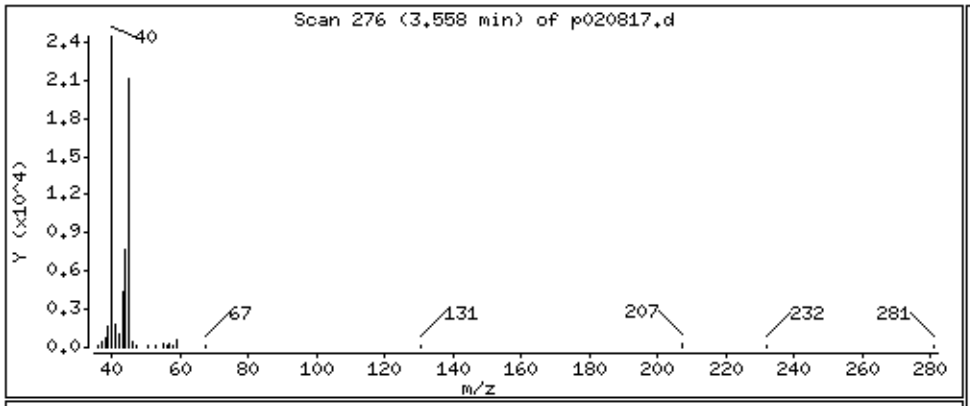
Operator: gd

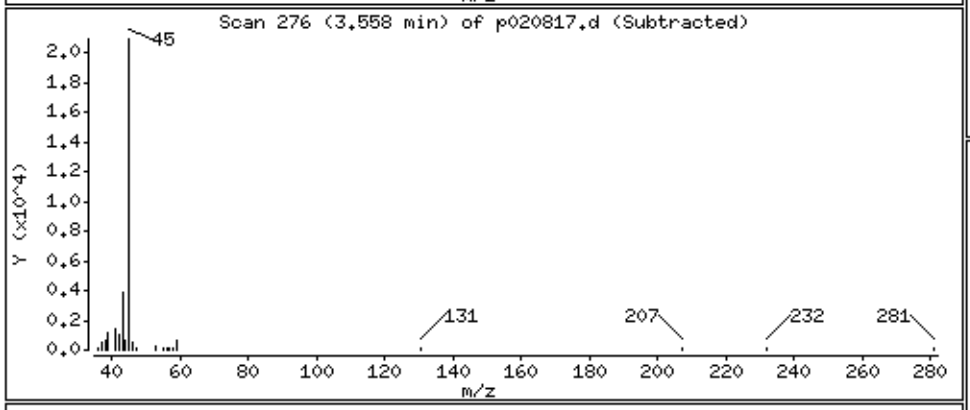
Column phase: RTX-624

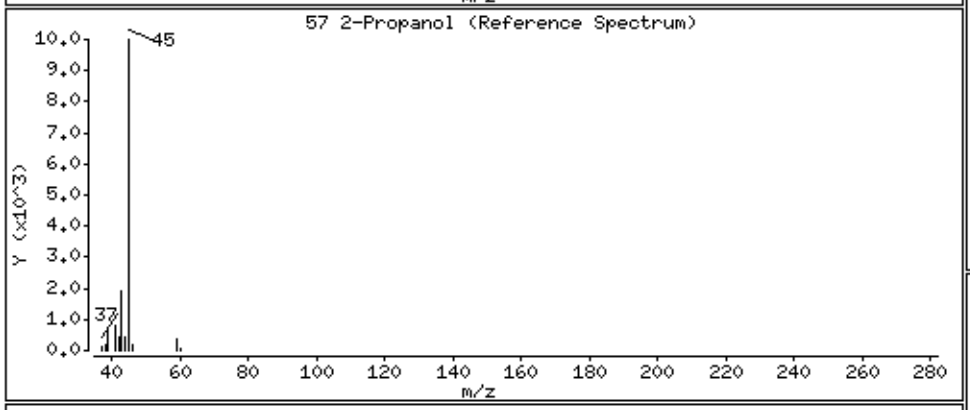
Column diameter: 0.25

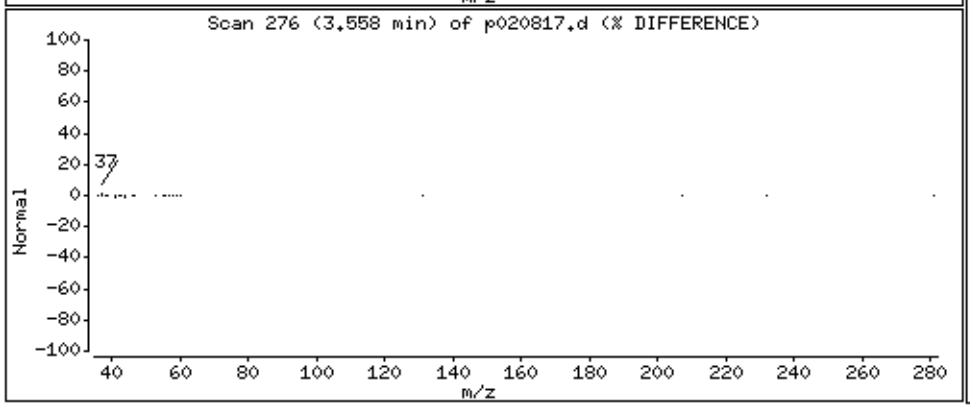
57 2-Propanol

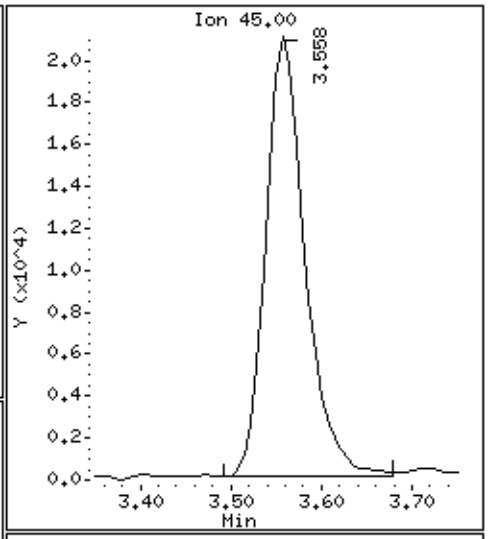
Concentration: 9.814 PPBV

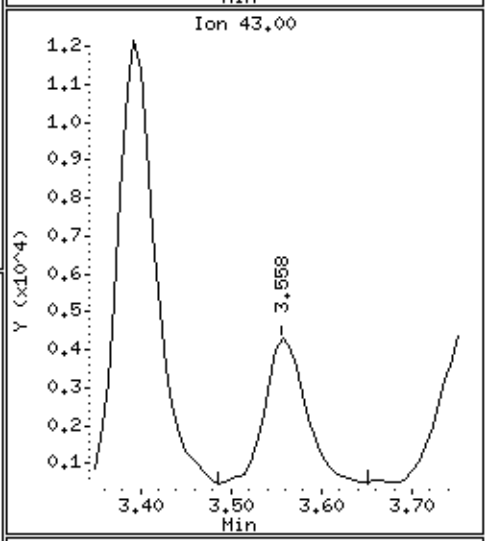


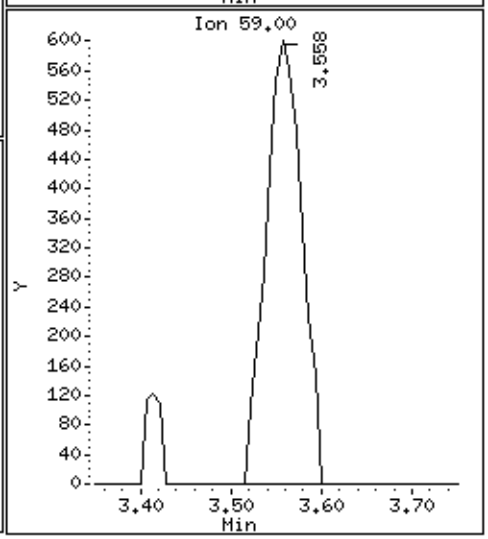












Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34578

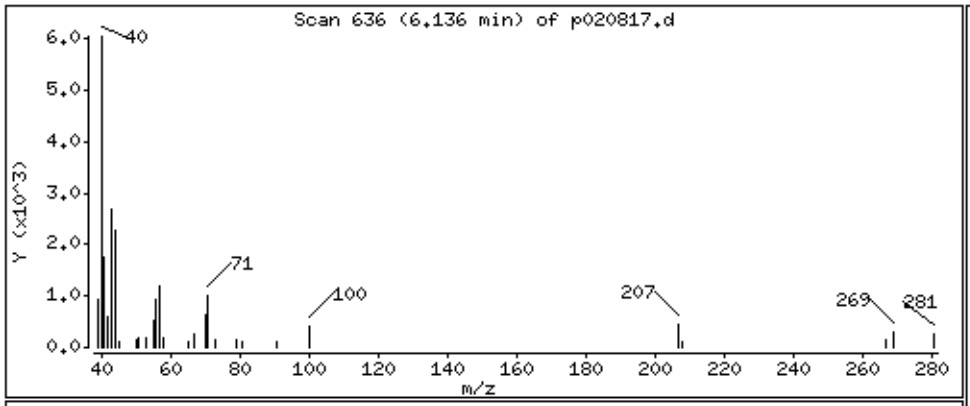
Operator: gd

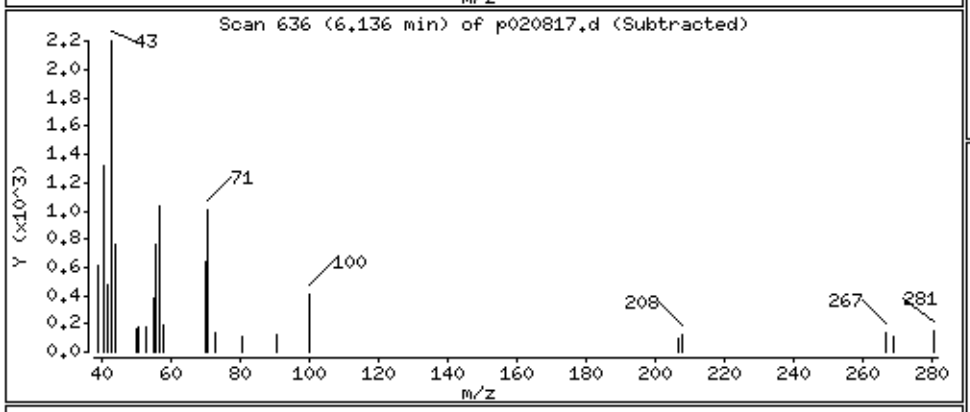
Column phase: RTX-624

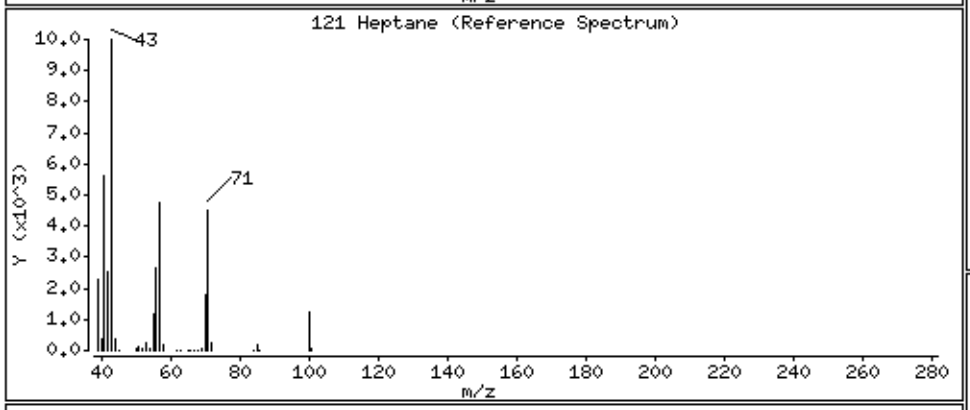
Column diameter: 0.25

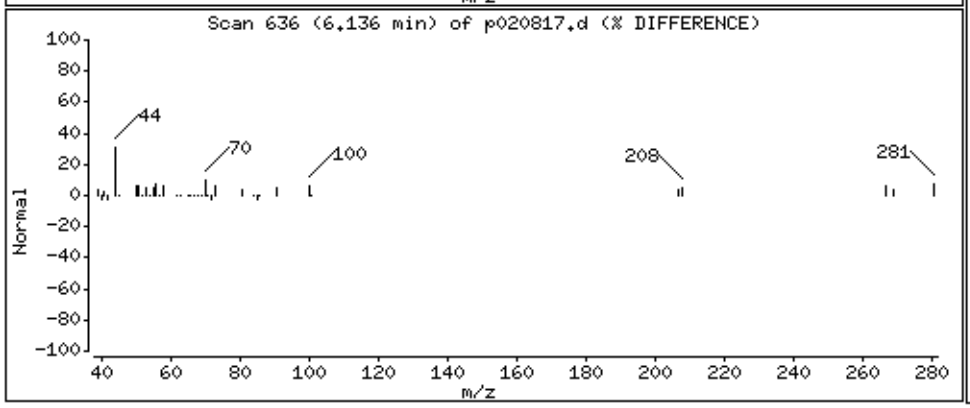
121 Heptane

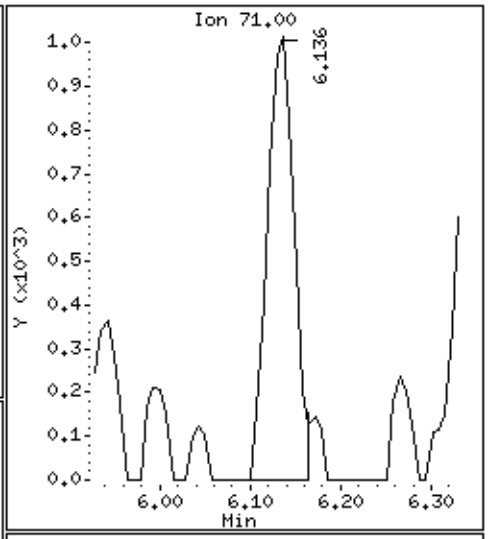
Concentration: 0.7206 PPBV

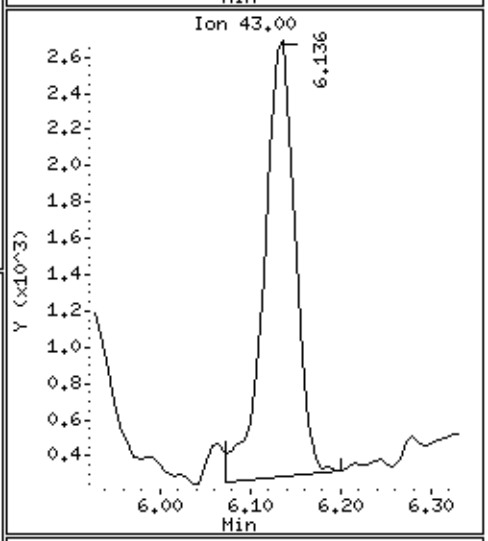


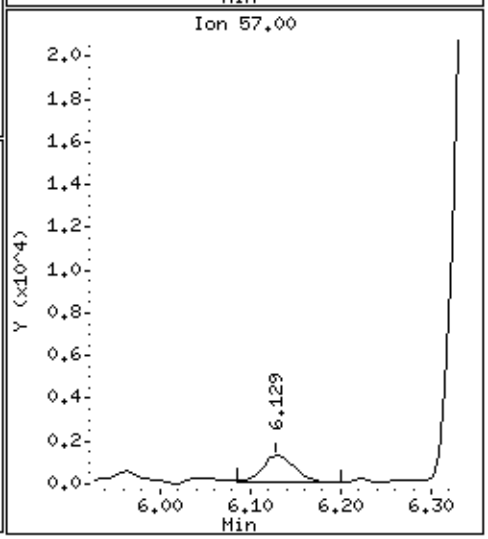












Data File: /chem/msdp.i/08feb16.b/p020817.d

Date : 08-FEB-2016 19:17

Client ID:

Instrument: msdp.i

Sample Info: 200ml 34578

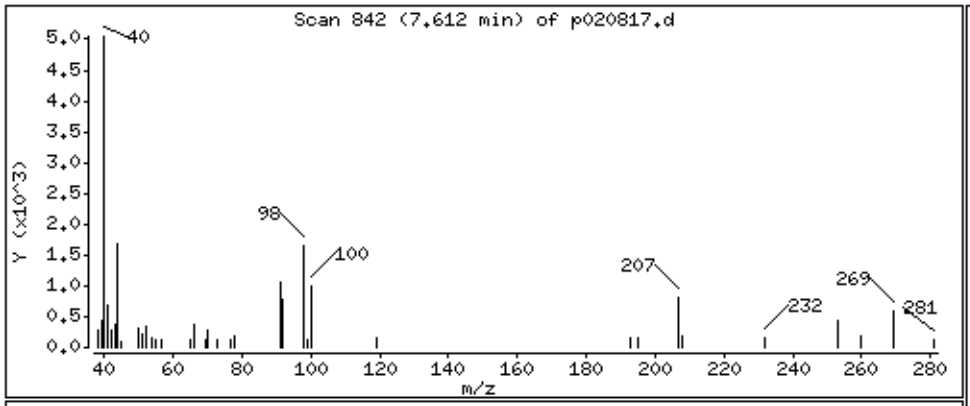
Operator: gd

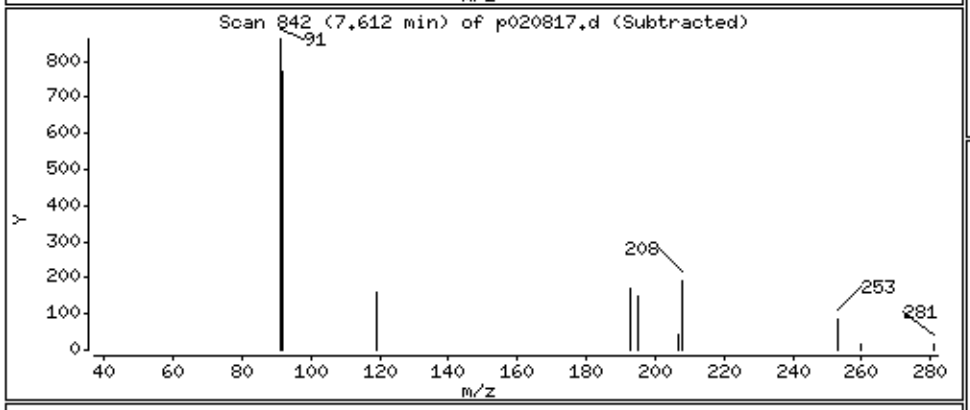
Column phase: RTX-624

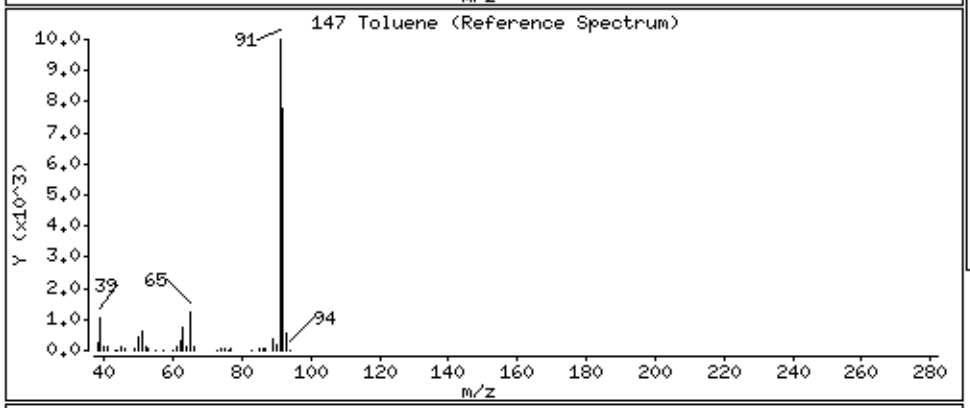
Column diameter: 0.25

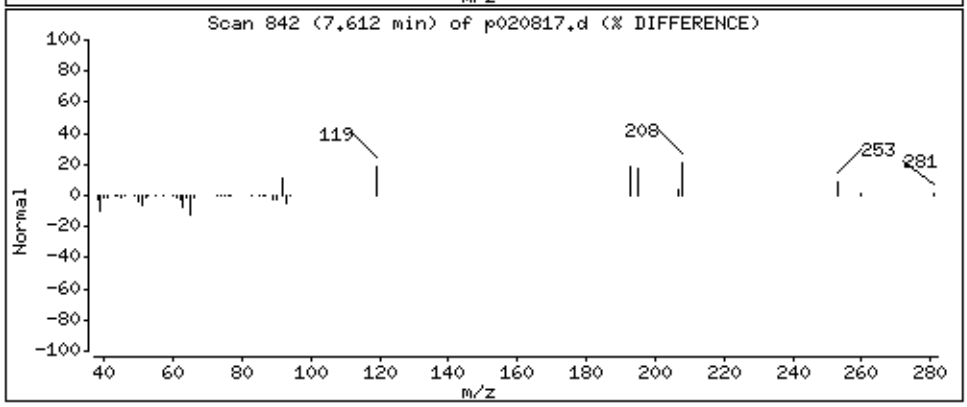
147 Toluene

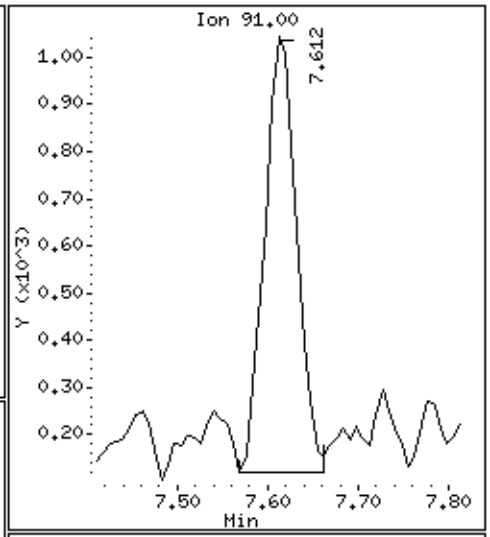
Concentration: 0.2412 PPBV

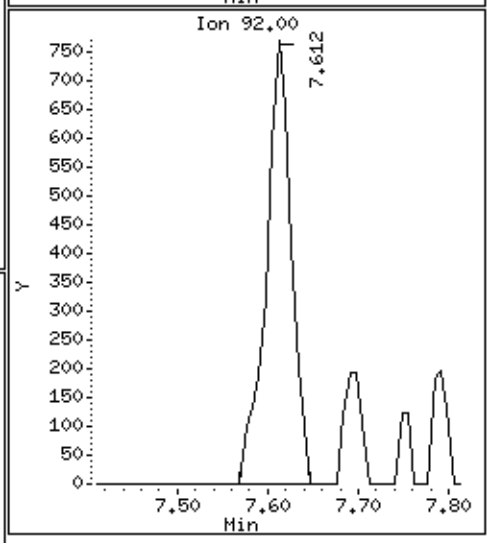












eurofins | Air Toxics

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

Client Sample ID: B30-4DSSV013116

Lab ID#: 1602064B-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	34	1600	64	3000
Acetone	85	47 J	200	110 J
2-Propanol	34	1500	84	3600
2-Butanone (Methyl Ethyl Ketone)	34	17 J	100	51 J
2,2,4-Trimethylpentane	8.5	1.9 J	40	8.9 J
Toluene	8.5	8.0 J	32	30 J
Ethyl Benzene	8.5	3.8 J	37	16 J
m,p-Xylene	8.5	11	37	47
o-Xylene	8.5	4.9 J	37	21 J
Styrene	8.5	1.4 J	36	6.2 J
4-Ethyltoluene	8.5	2.1 J	42	10 J
1,3-Dichlorobenzene	8.5	8.0 J	51	48 J

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Client Sample ID: B30-4DSSV013116

Lab ID#: 1602064B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020814**	**Date of Collection:**	**1/31/16 1:20:00 PM**
Dil. Factor:	**17.0**	**Date of Analysis:**	**2/8/16 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.5	Not Detected	42	Not Detected
Freon 114	8.5	Not Detected	59	Not Detected
Chloromethane	85	Not Detected	180	Not Detected
Vinyl Chloride	8.5	Not Detected	22	Not Detected
1,3-Butadiene	8.5	Not Detected	19	Not Detected
Bromomethane	85	Not Detected	330	Not Detected
Chloroethane	34	Not Detected	90	Not Detected
Freon 11	8.5	Not Detected	48	Not Detected
Ethanol	34	1600	64	3000
Freon 113	8.5	Not Detected	65	Not Detected
1,1-Dichloroethene	8.5	Not Detected	34	Not Detected
Acetone	85	47 J	200	110 J
2-Propanol	34	1500	84	3600
Carbon Disulfide	34	Not Detected	100	Not Detected
3-Chloropropene	34	Not Detected	110	Not Detected
Methylene Chloride	85	Not Detected	300	Not Detected
Methyl tert-butyl ether	8.5	Not Detected	31	Not Detected
trans-1,2-Dichloroethene	8.5	Not Detected	34	Not Detected
Hexane	8.5	Not Detected	30	Not Detected
1,1-Dichloroethane	8.5	Not Detected	34	Not Detected
2-Butanone (Methyl Ethyl Ketone)	34	17 J	100	51 J
cis-1,2-Dichloroethene	8.5	Not Detected	34	Not Detected
Tetrahydrofuran	8.5	Not Detected	25	Not Detected
Chloroform	8.5	Not Detected	42	Not Detected
1,1,1-Trichloroethane	8.5	Not Detected	46	Not Detected
Cyclohexane	8.5	Not Detected	29	Not Detected
Carbon Tetrachloride	8.5	Not Detected	53	Not Detected
2,2,4-Trimethylpentane	8.5	1.9 J	40	8.9 J
Benzene	8.5	Not Detected	27	Not Detected
1,2-Dichloroethane	8.5	Not Detected	34	Not Detected
Heptane	8.5	Not Detected	35	Not Detected
Trichloroethene	8.5	Not Detected	46	Not Detected
1,2-Dichloropropane	8.5	Not Detected	39	Not Detected
1,4-Dioxane	34	Not Detected	120	Not Detected
Bromodichloromethane	8.5	Not Detected	57	Not Detected
cis-1,3-Dichloropropene	8.5	Not Detected	38	Not Detected
4-Methyl-2-pentanone	8.5	Not Detected	35	Not Detected
Toluene	8.5	8.0 J	32	30 J
trans-1,3-Dichloropropene	8.5	Not Detected	38	Not Detected
1,1,2-Trichloroethane	8.5	Not Detected	46	Not Detected
Tetrachloroethene	8.5	Not Detected	58	Not Detected
2-Hexanone	34	Not Detected	140	Not Detected

eurofins | Air Toxics

Client Sample ID: B30-4DSSV013116

Lab ID#: 1602064B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020814**	**Date of Collection:**	**1/31/16 1:20:00 PM**
Dil. Factor:	**17.0**	**Date of Analysis:**	**2/8/16 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.5	Not Detected	72	Not Detected
1,2-Dibromoethane (EDB)	8.5	Not Detected	65	Not Detected
Chlorobenzene	8.5	Not Detected	39	Not Detected
Ethyl Benzene	8.5	3.8 J	37	16 J
m,p-Xylene	8.5	11	37	47
o-Xylene	8.5	4.9 J	37	21 J
Styrene	8.5	1.4 J	36	6.2 J
Bromoform	8.5	Not Detected	88	Not Detected
Cumene	8.5	Not Detected	42	Not Detected
1,1,2,2-Tetrachloroethane	8.5	Not Detected	58	Not Detected
Propylbenzene	8.5	Not Detected	42	Not Detected
4-Ethyltoluene	8.5	2.1 J	42	10 J
1,3,5-Trimethylbenzene	8.5	Not Detected	42	Not Detected
1,2,4-Trimethylbenzene	8.5	Not Detected	42	Not Detected
1,3-Dichlorobenzene	8.5	8.0 J	51	48 J
1,4-Dichlorobenzene	8.5	Not Detected	51	Not Detected
alpha-Chlorotoluene	8.5	Not Detected	44	Not Detected
1,2-Dichlorobenzene	8.5	Not Detected	51	Not Detected
1,2,4-Trichlorobenzene	34	Not Detected	250	Not Detected
Hexachlorobutadiene	34	Not Detected	360	Not Detected
Naphthalene	17	Not Detected	89	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	96	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020814.d
Lab Smp Id: 1602064B-14A
Inj Date : 08-FEB-2016 17:18
Operator : sab Inst ID: msdp.i
Smp Info : 30ml 1L1942
Misc Info : 6.3 Hg->15 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 13-Feb-2016 11:45 dbailey Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 4
Dil Factor: 17.00000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	17.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.449	5.449 (1.000)	130	139713	25.0000		80.00- 120.00	100.00
5.449	5.449 (1.000)	128	108288			49.06- 109.06	77.51
5.449	5.449 (1.000)	49	210890			124.20- 184.20	150.94
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	565601	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	82121			0.00- 44.57	14.52
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.786	8.779 (1.000)	117	521492	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	274514			20.36- 80.36	52.64
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.099)	65	197407	23.9430	23.943	80.00- 120.00	100.00(a)
5.986	5.986 (1.099)	67	100897			26.68- 86.68	51.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.554	7.555 (1.191)	98	546944	24.2036	24.204	80.00- 120.00	100.00(a)
7.554	7.555 (1.191)	70	58062			0.00- 40.62	10.62
7.554	7.555 (1.191)	100	360299			36.74- 96.74	65.87
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	402965	23.9595	23.959	80.00- 120.00	100.00(a)
9.761	9.761 (1.111)	95	398495			65.95- 125.95	98.89
9.761	9.761 (1.111)	176	390018			65.80- 125.80	96.79
42 Ethanol					CAS #: 64-17-5		
2.877	2.877 (0.528)	45	244978	92.1754	1567.0	80.00- 120.00	100.00
2.877	2.877 (0.528)	43	54056			0.00- 50.77	22.07
2.877	2.877 (0.528)	46	96176			8.68- 68.68	39.26
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	10212	2.77254	47.133	80.00- 120.00	100.00(a)
3.386	3.386 (0.621)	43	35917			323.05- 383.05	351.69
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.652)	45	1362484	86.7030	1474.0	80.00- 120.00	100.00
3.550	3.550 (0.652)	43	266788			0.00- 49.72	19.58
3.543	3.550 (0.650)	59	48608			0.00- 33.36	3.57
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.963)	72	3091	1.02286	17.389	80.00- 120.00	100.00(a)
5.248	5.248 (0.963)	43	19862			452.15- 512.15	642.40
5.248	5.248 (0.963)	57	2410			9.54- 69.54	77.97
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.095)	57	4312	0.11240	1.911	80.00- 120.00	100.00(a)
5.957	5.964 (1.093)	56	2186			1.10- 61.10	50.70
5.964	5.964 (1.095)	41	2220			0.00- 57.08	51.48
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	11274	0.46779	7.952	80.00- 120.00	100.00(a)
7.612	7.612 (1.200)	92	7626			27.38- 87.38	67.65
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.008)	106	2319	0.22471	3.820	80.00- 120.00	100.00(a)
8.858	8.858 (1.008)	91	6132			276.53- 336.53	264.43
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.959 (1.020)	106	7926	0.63148	10.735	80.00- 120.00	100.00
8.958	8.959 (1.020)	91	17568			166.59- 226.59	221.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.058)	106	3486	0.28932	4.918	80.00- 120.00	100.00(a)
9.295	9.295 (1.058)	91	6313			176.08- 236.08	181.07
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.060)	104	1536	0.08510	1.447	80.00- 120.00	100.00(a)
9.302	9.317 (1.059)	78	1001			17.58- 77.58	65.13
188 4-Ethyltoluene					CAS #: 622-96-8		
9.990	10.019 (1.137)	120	1523	0.12355	2.100	80.00- 120.00	100.00(a)
9.997	10.019 (1.138)	105	5164			279.66- 339.66	338.97
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.671 (1.214)	146	11616	0.47375	8.054	80.00- 120.00	100.00(a)
10.670	10.671 (1.214)	148	8831			34.23- 94.23	76.03
10.663	10.671 (1.214)	111	4424			7.40- 67.40	38.09

QC Flag Legend

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

Report Date: 15-Feb-2016 13:56

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020814.d
Lab Smp Id: 1602064B-14A
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 6.3 Hg->15 psi

Calibration Date: 08-FEB-2016
Calibration Time: 10:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	139713	-8.38
123 1,4-Difluorobenze	608067	364840	851294	565601	-6.98
163 Chlorobenzene-d5	577195	346317	808073	521492	-9.65

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	8.79	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: 15-Feb-2016 13:56

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1602064B-14A
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 6.3 Hg->15 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	23.943	95.77	70-130
$ 146 Toluene-d8	25.000	24.204	96.81	70-130
$ 177 4-Bromofluorobenze	25.000	23.959	95.84	70-130

Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

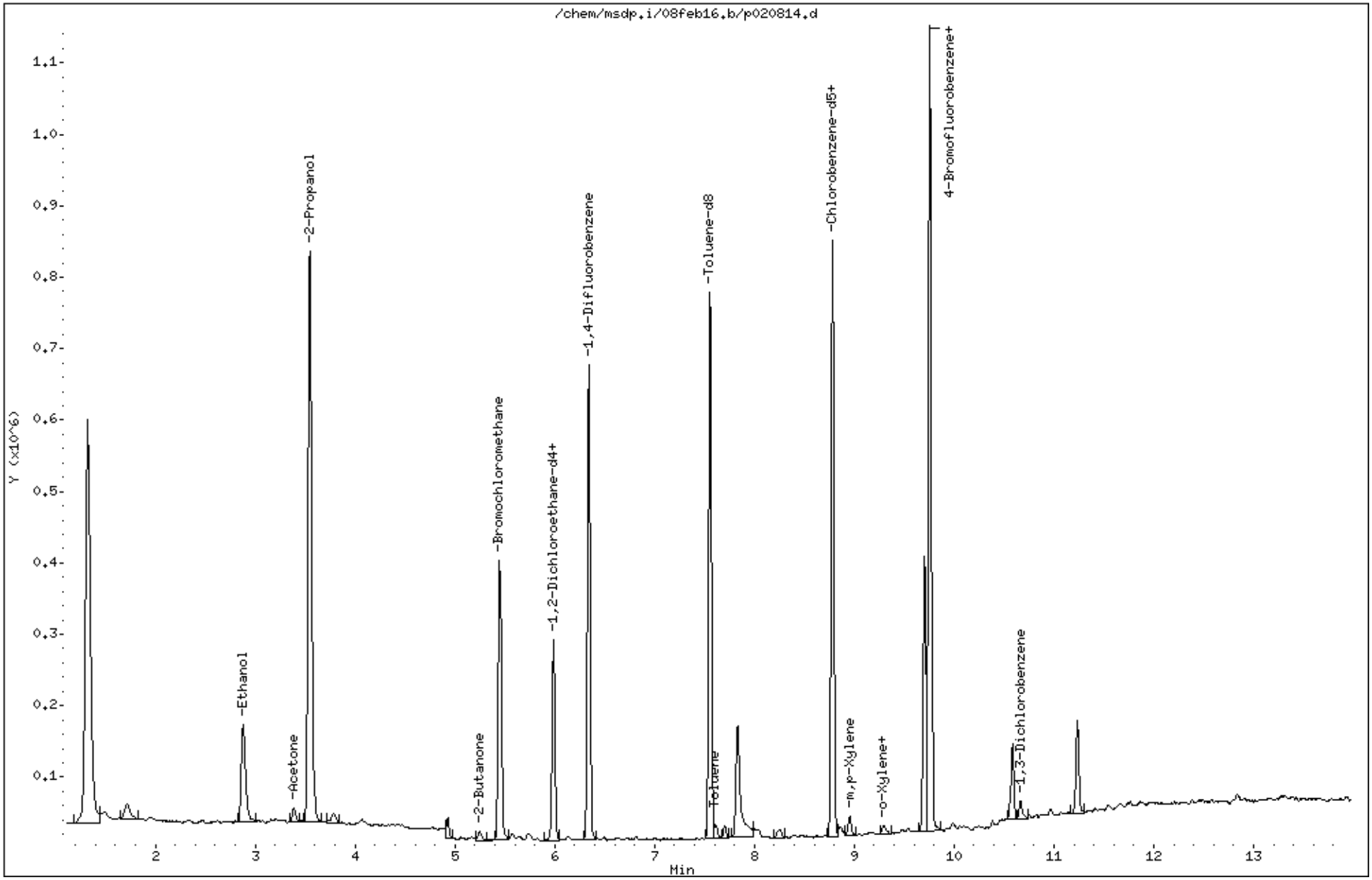
Sample Info: 30ml 1L1942

Column phase: RTX-624

Instrument: msdp.i

Operator: sab

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

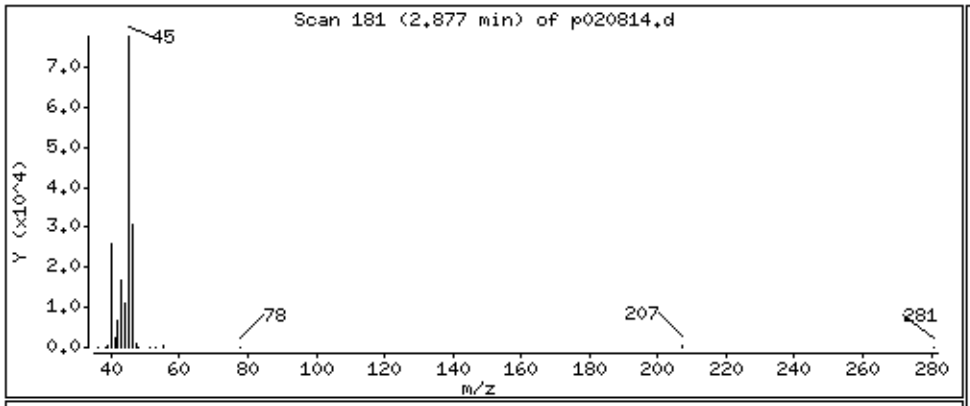
Operator: sab

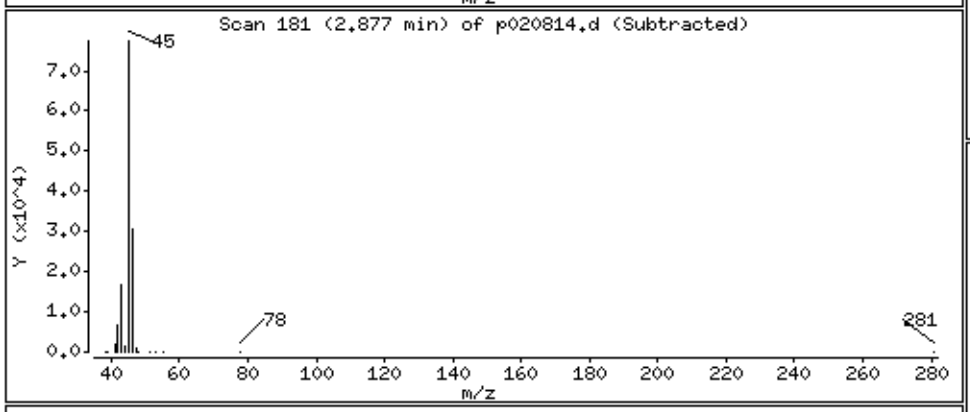
Column phase: RTX-624

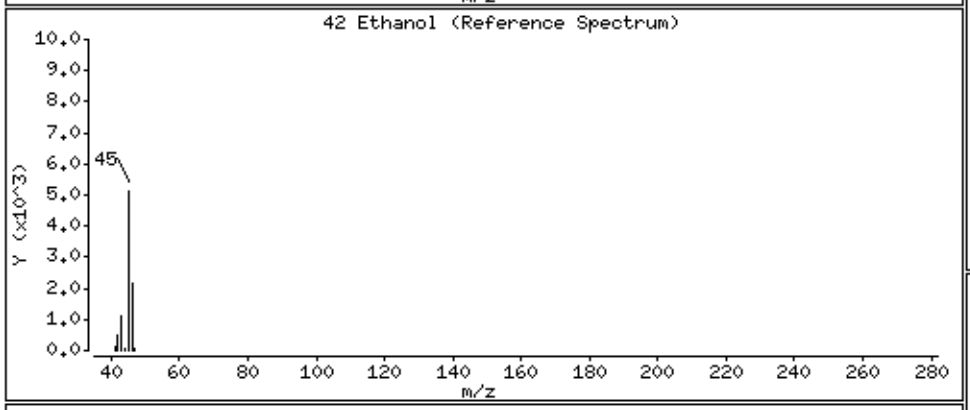
Column diameter: 0.25

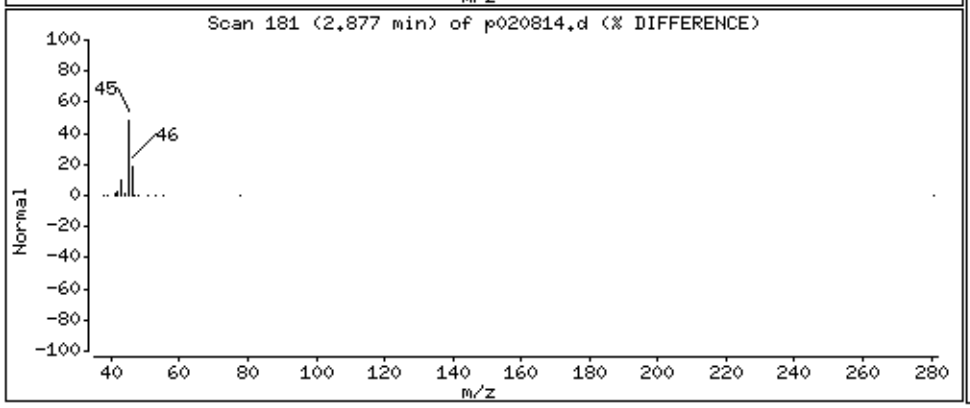
42 Ethanol

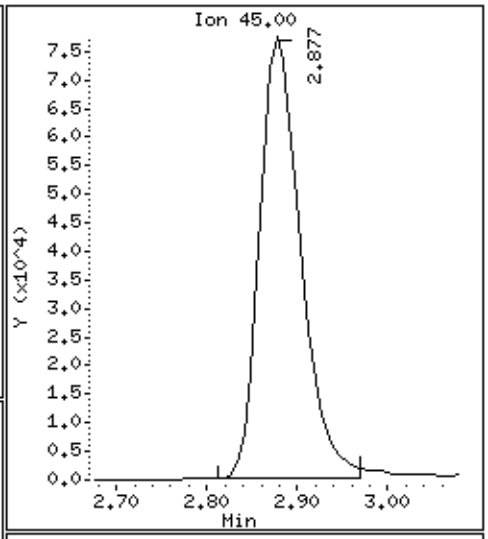
Concentration: 1567.0 PPBV

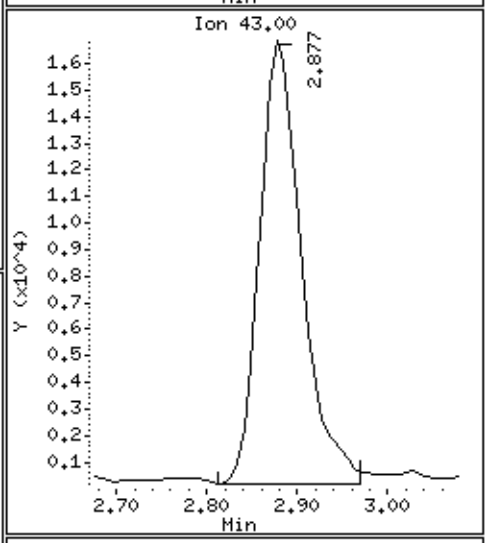


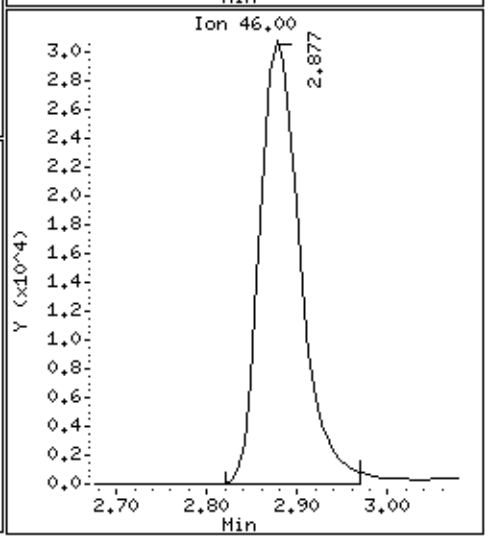












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

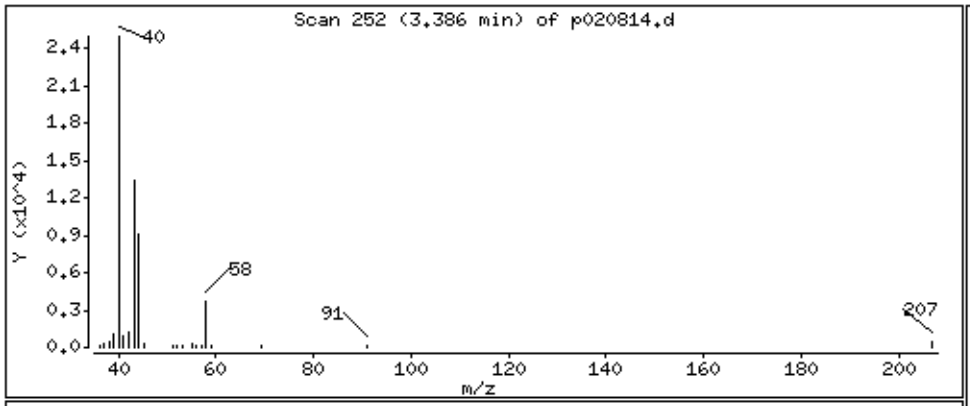
Operator: sab

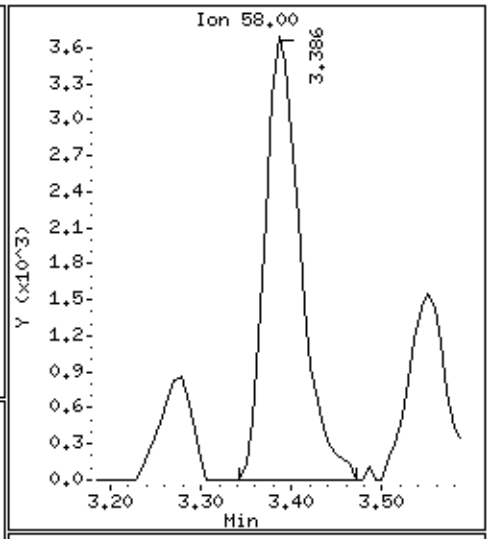
Column phase: RTX-624

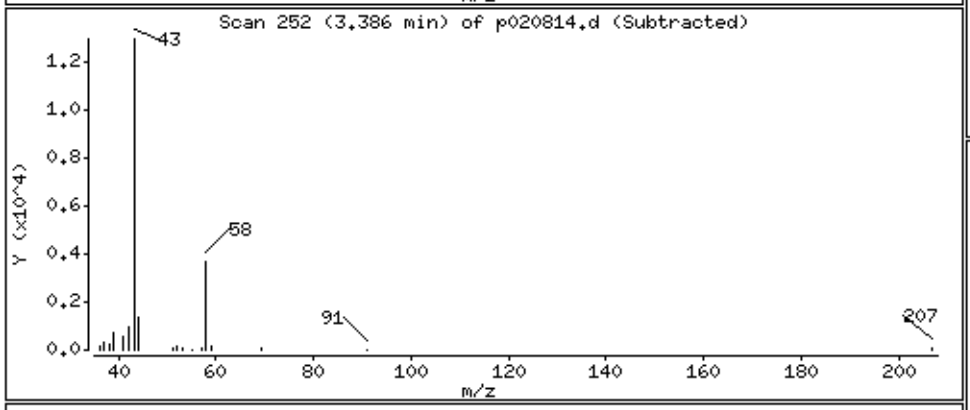
Column diameter: 0.25

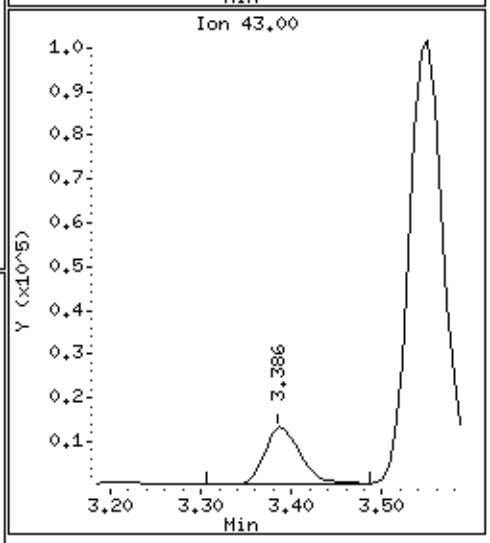
52 Acetone

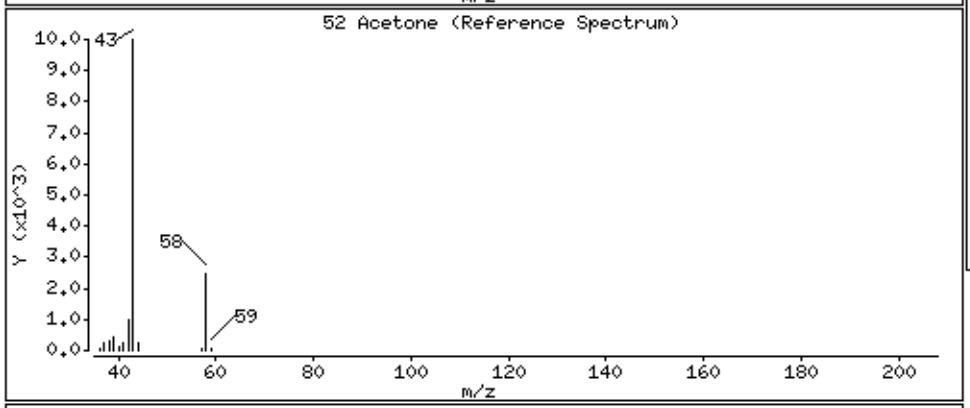
Concentration: 47.133 PPBV

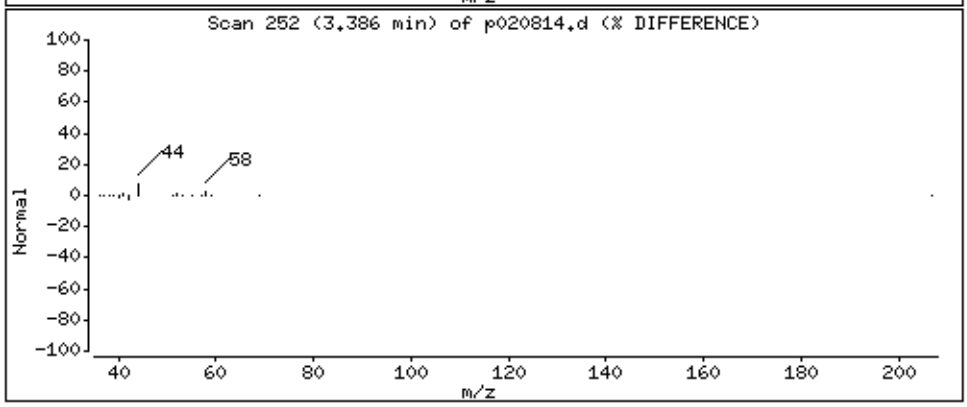












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

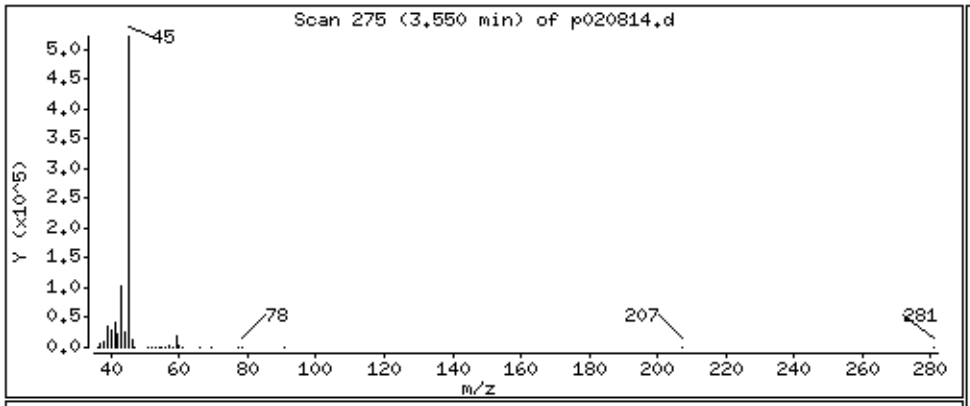
Operator: sab

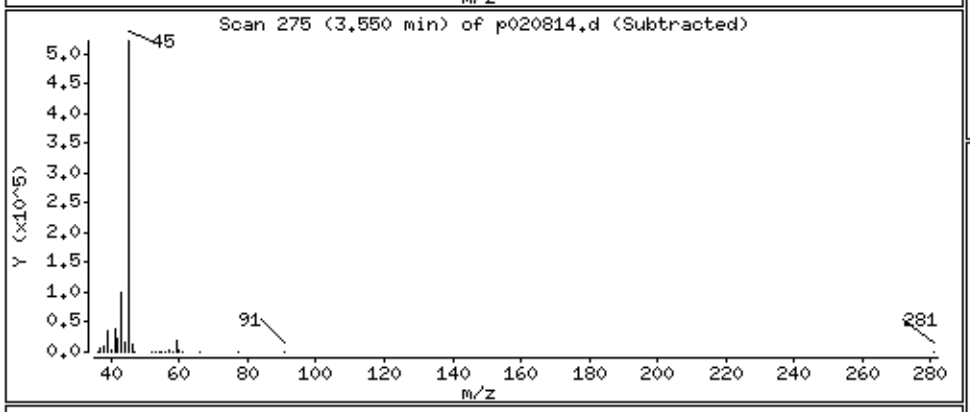
Column phase: RTX-624

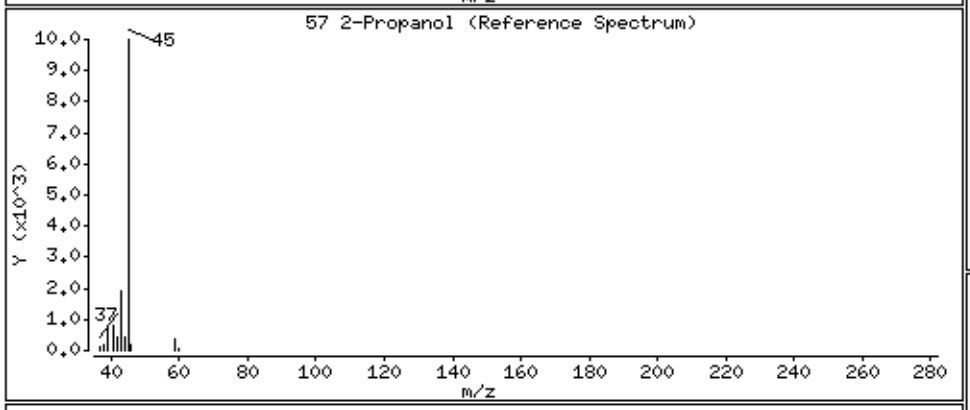
Column diameter: 0.25

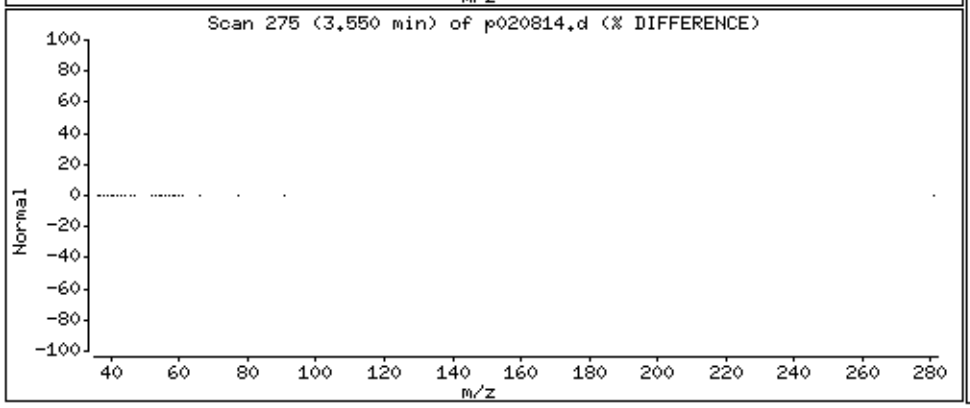
57 2-Propanol

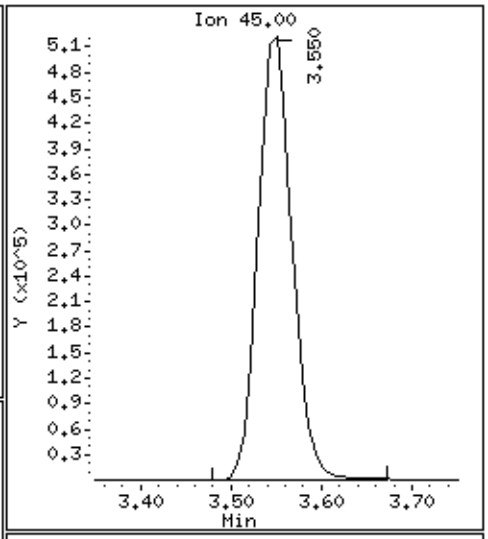
Concentration: 1474.0 PPBV

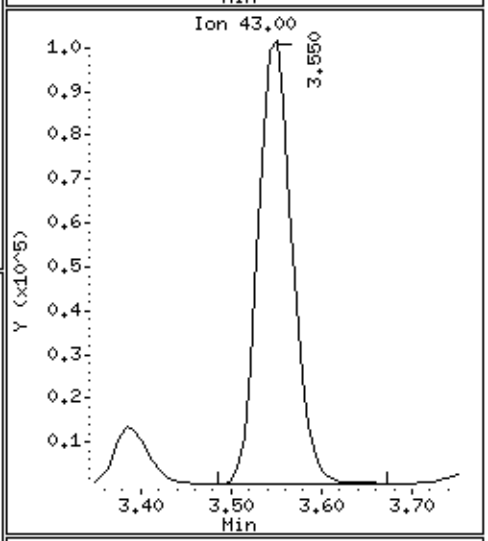


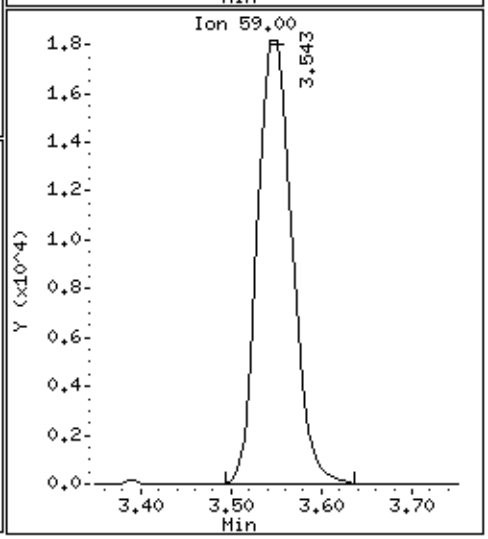












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

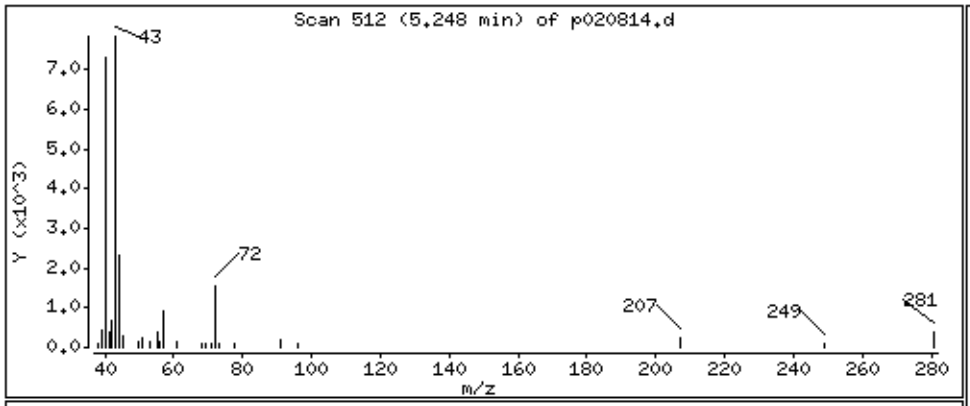
Operator: sab

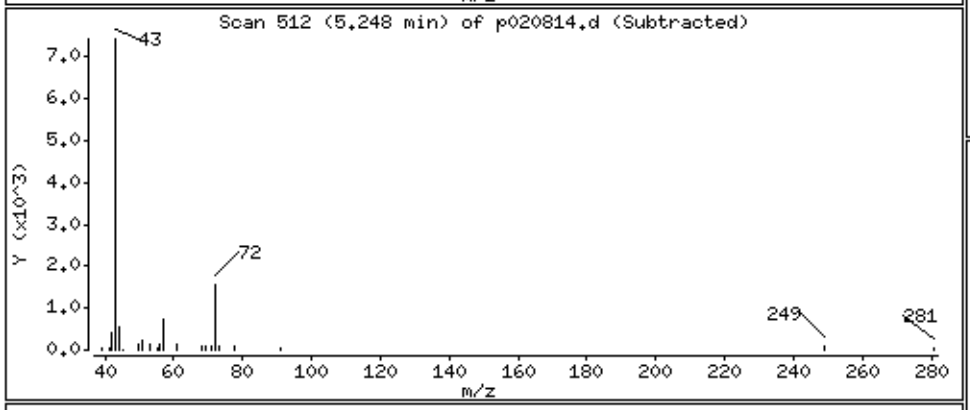
Column phase: RTX-624

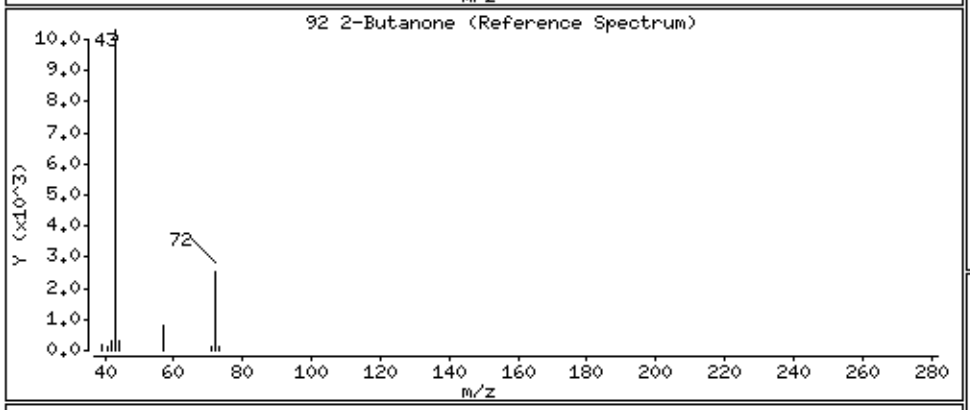
Column diameter: 0.25

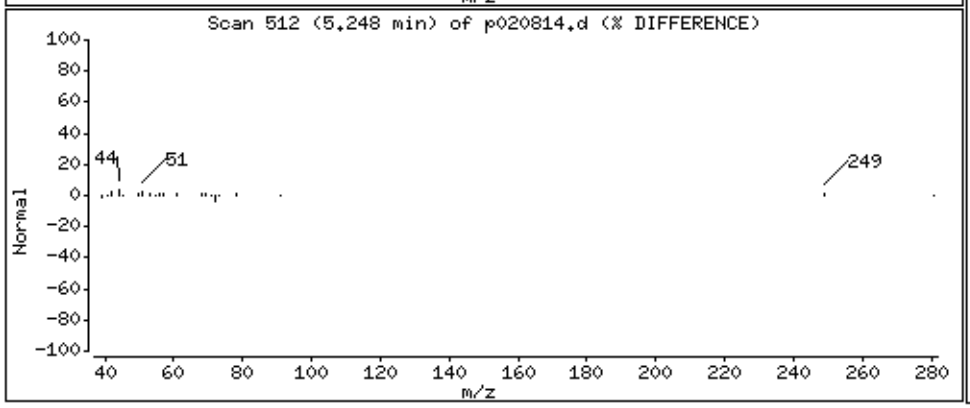
92 2-Butanone

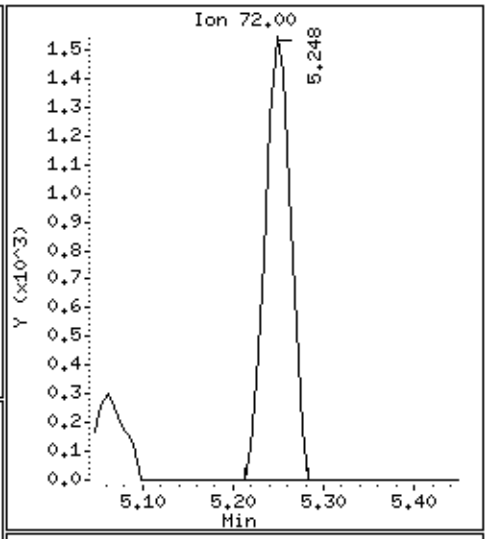
Concentration: 17.389 PPBV

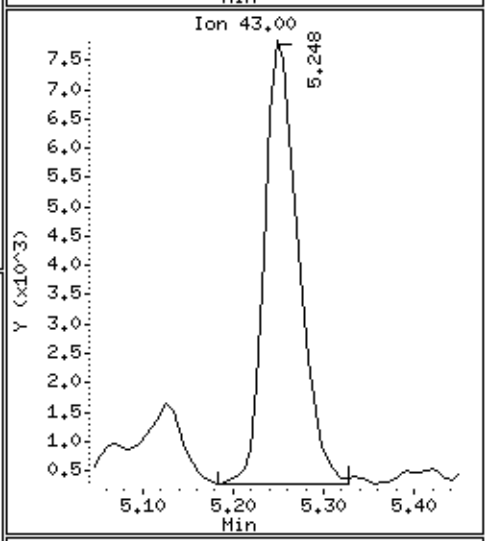


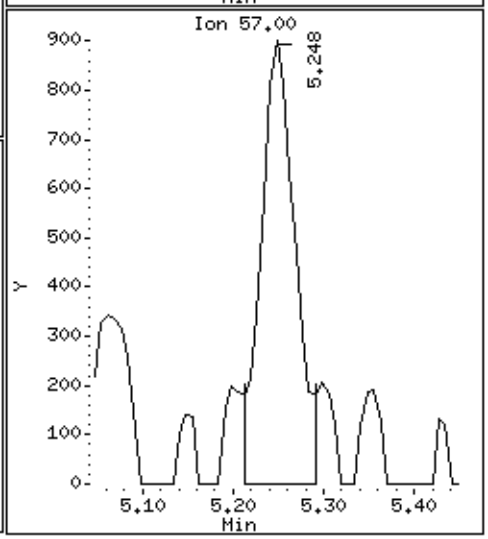












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

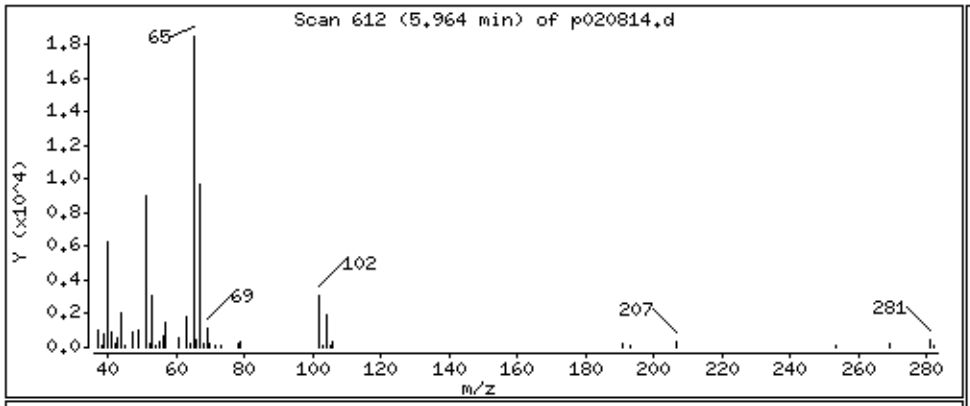
Operator: sab

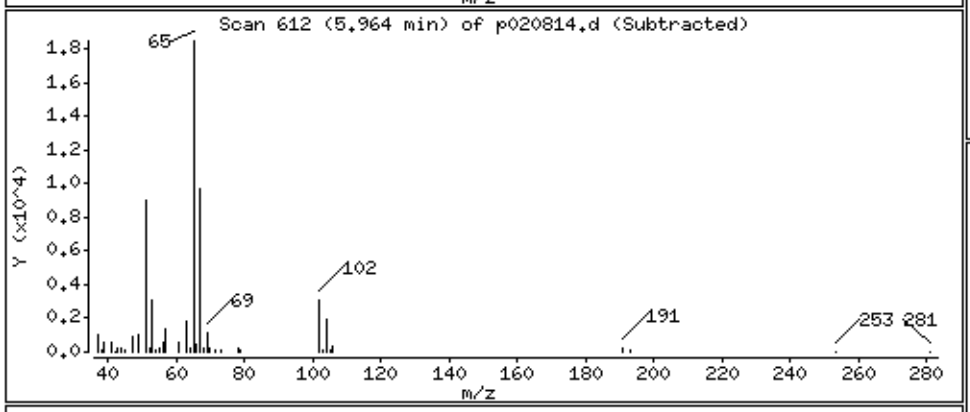
Column phase: RTX-624

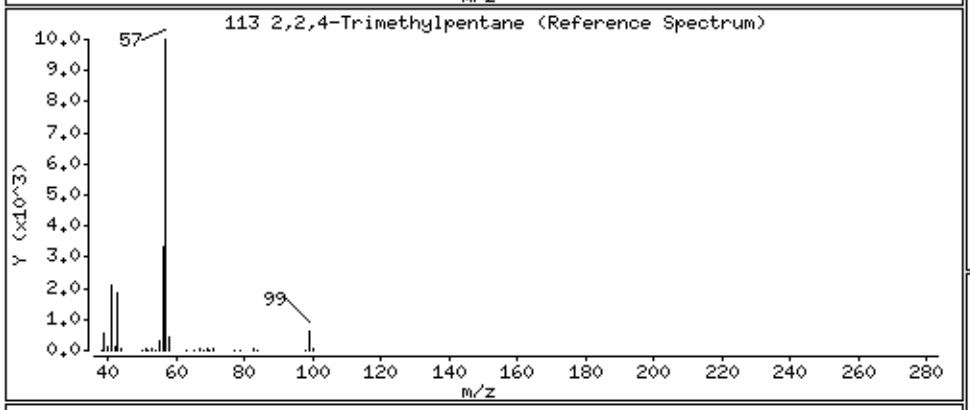
Column diameter: 0.25

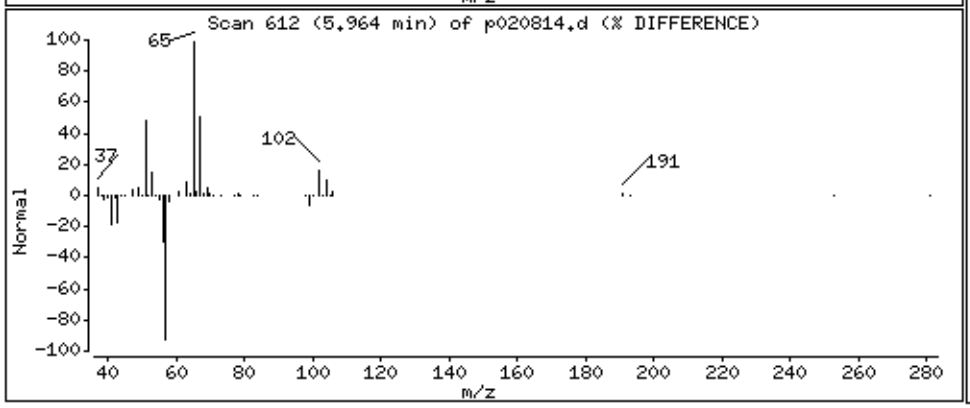
113 2,2,4-Trimethylpentane

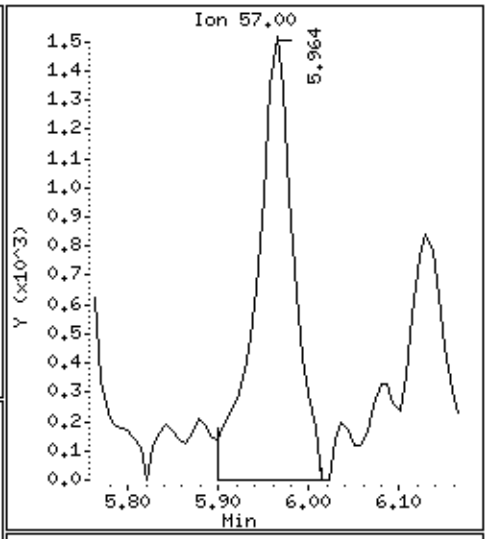
Concentration: 1.911 PPBV

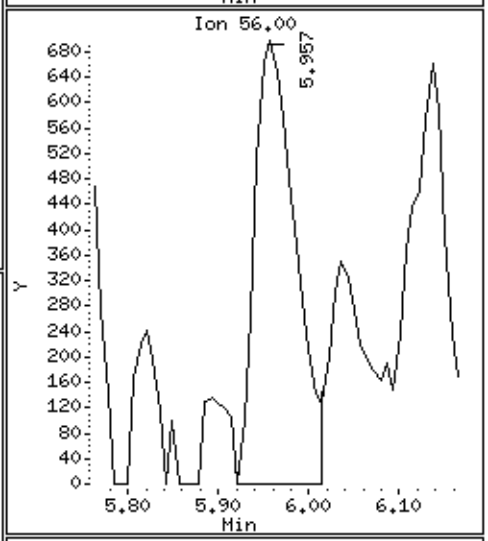


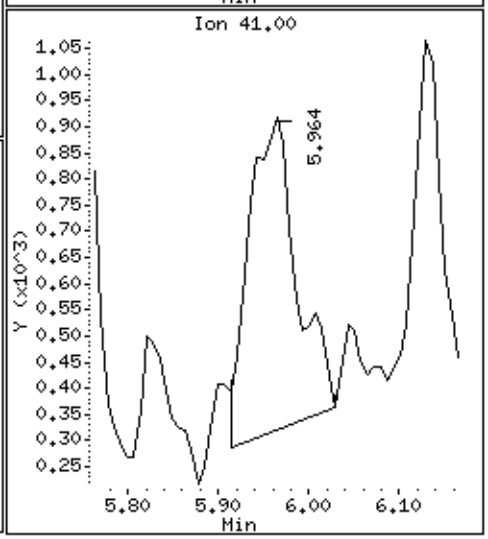












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

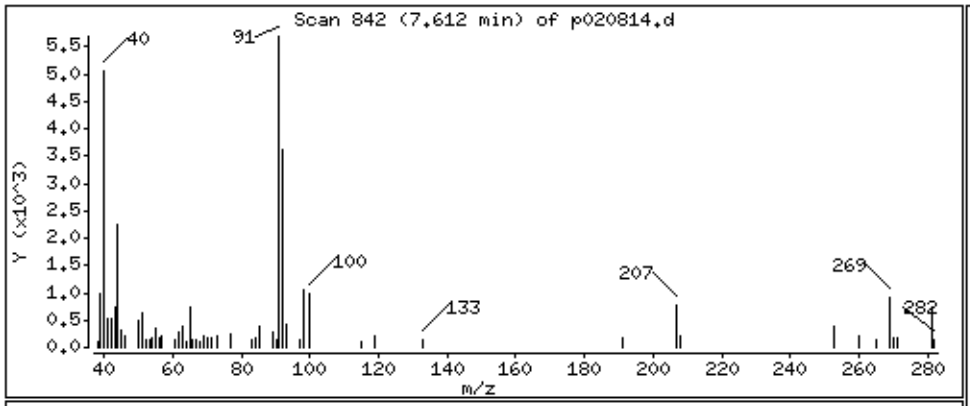
Operator: sab

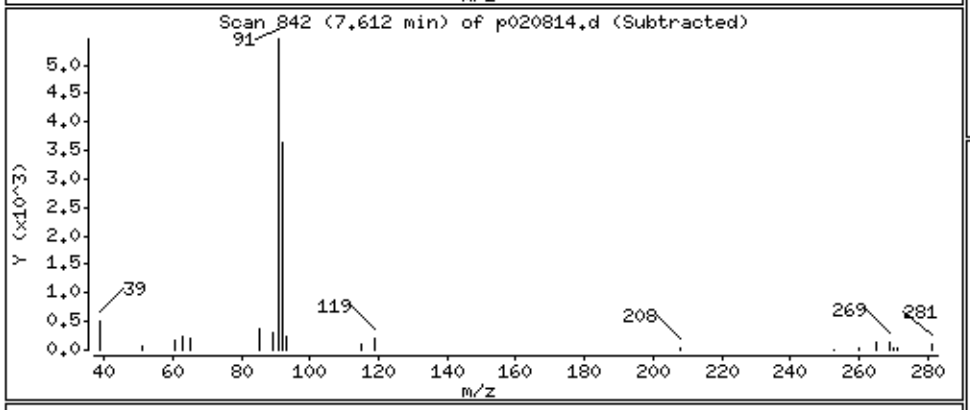
Column phase: RTX-624

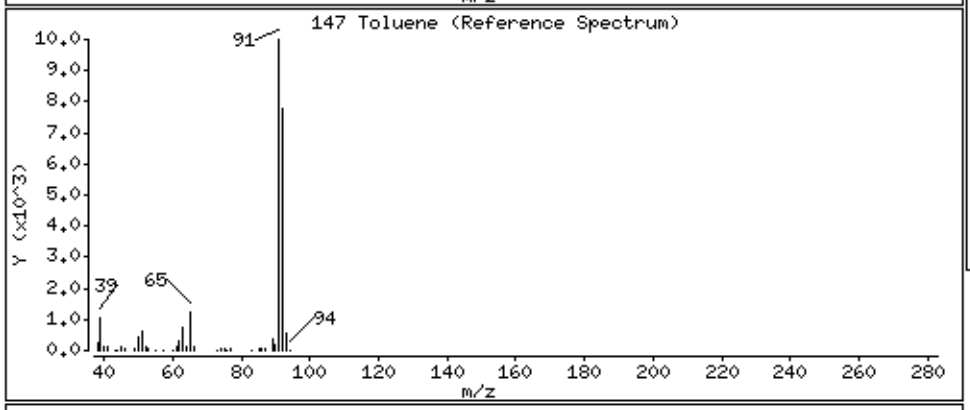
Column diameter: 0.25

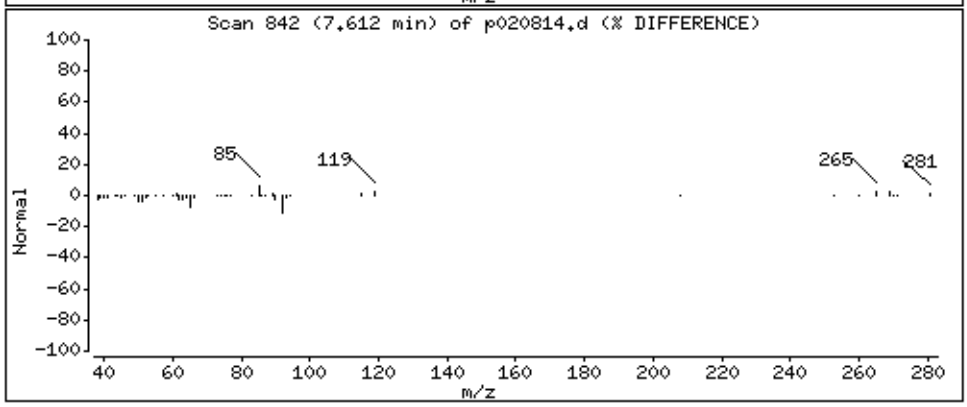
147 Toluene

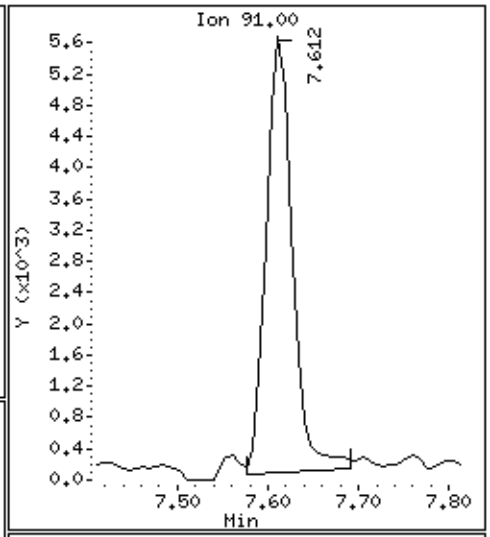
Concentration: 7.952 PPBV

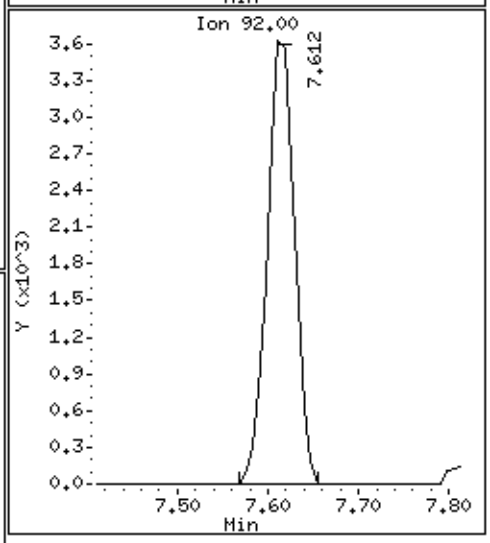












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

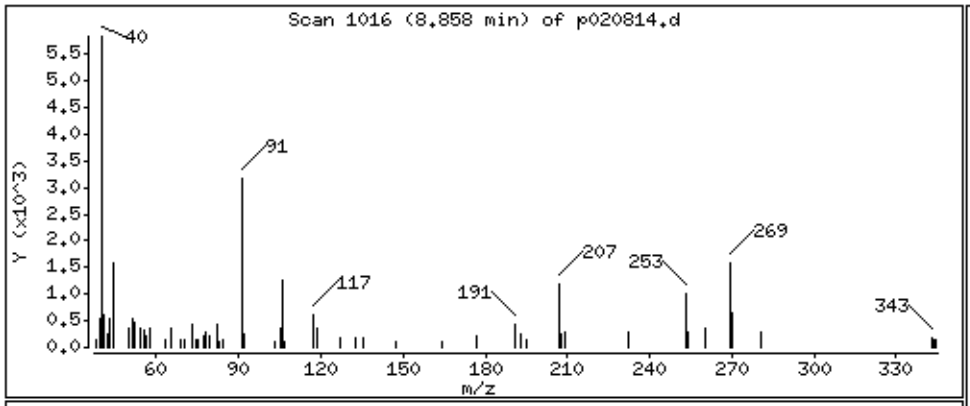
Operator: sab

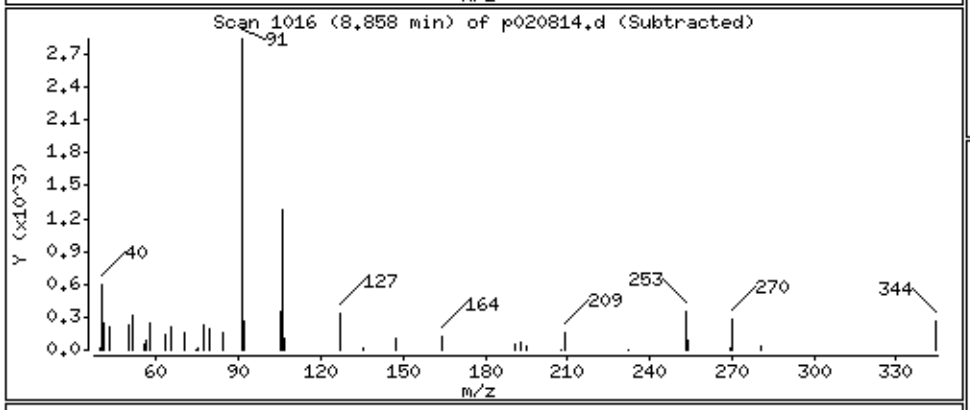
Column phase: RTX-624

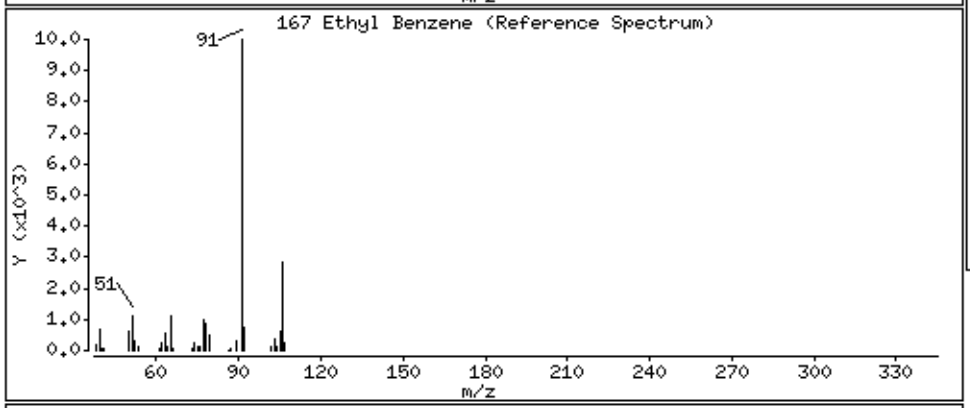
Column diameter: 0.25

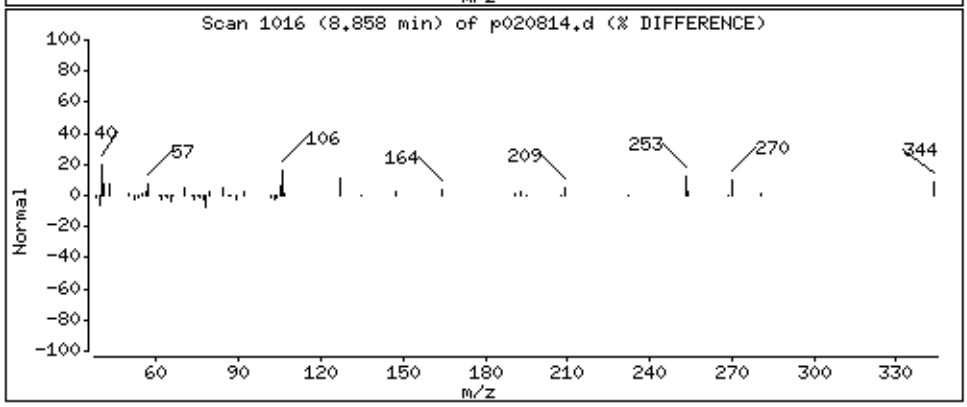
167 Ethyl Benzene

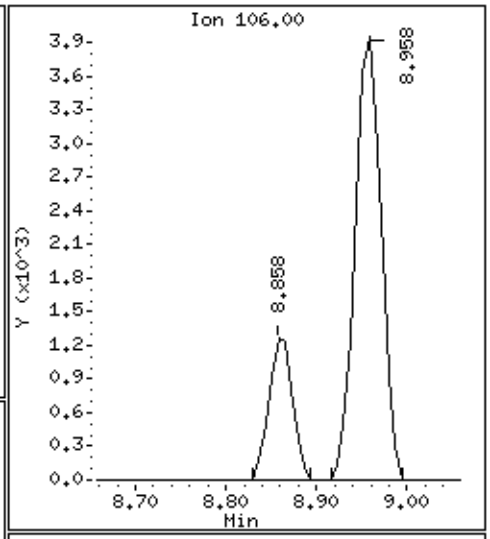
Concentration: 3.820 PPBV

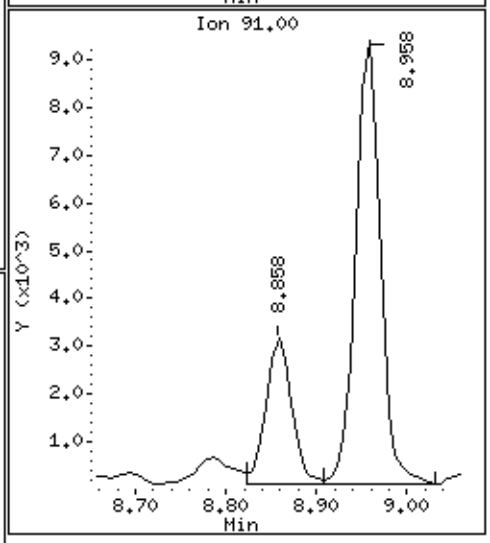












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

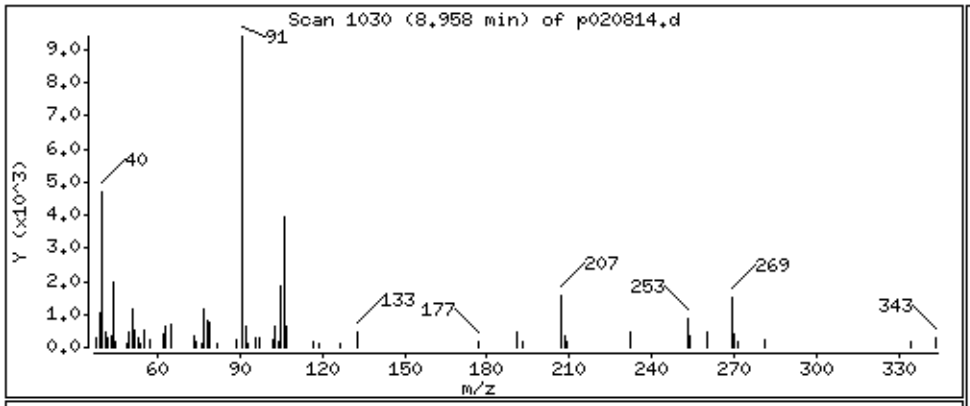
Operator: sab

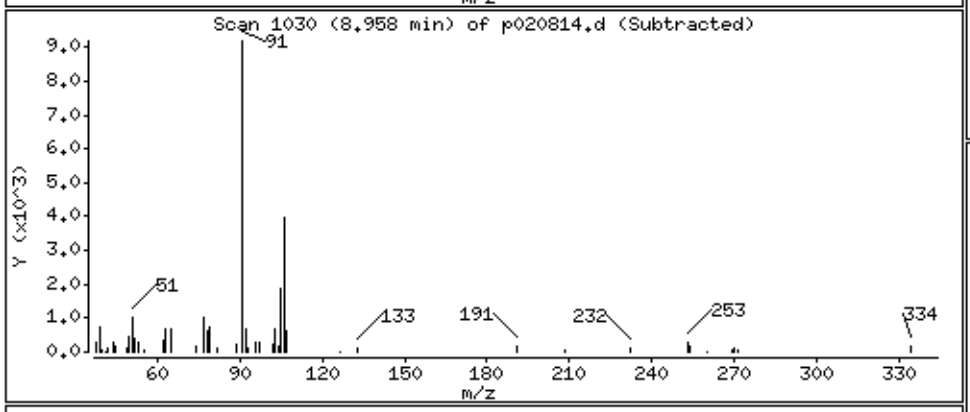
Column phase: RTX-624

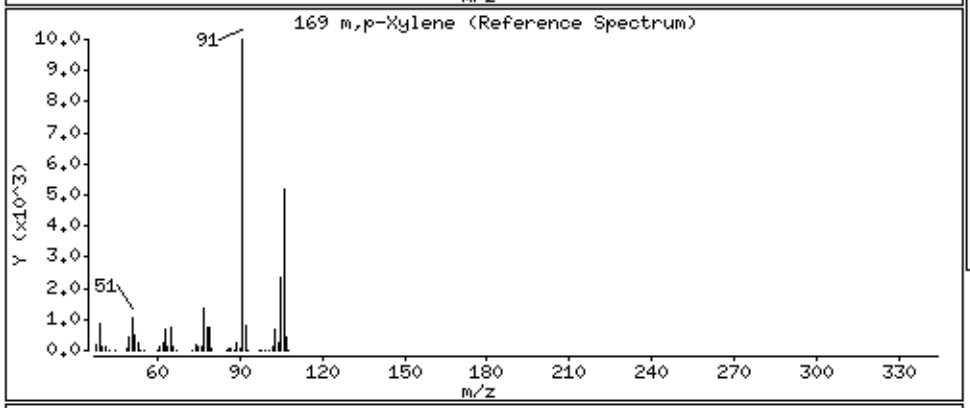
Column diameter: 0.25

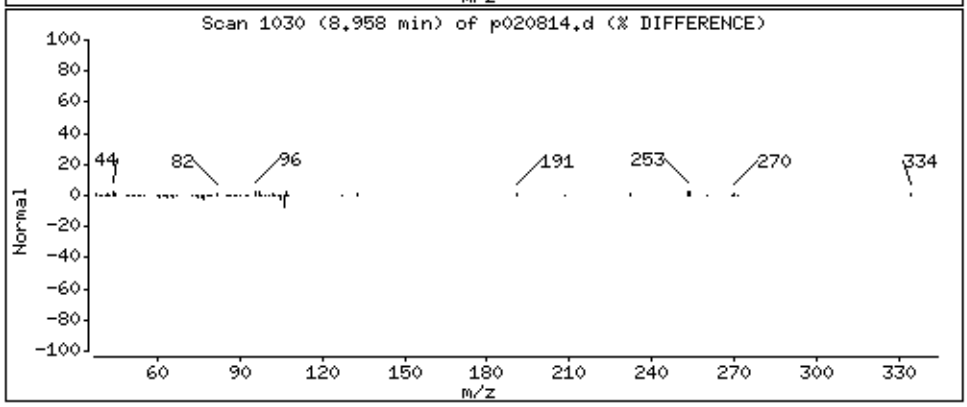
169 m,p-Xylene

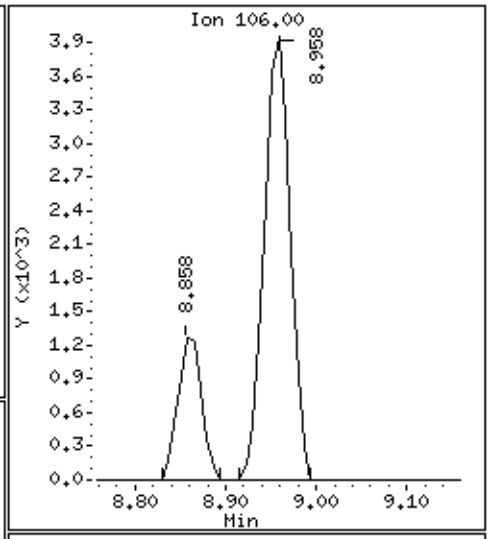
Concentration: 10.735 PPBV

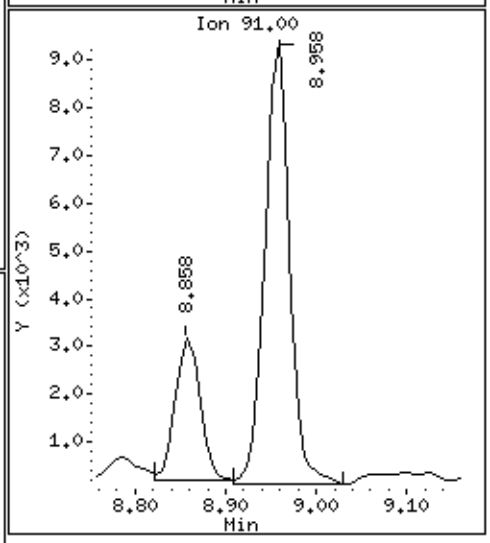












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

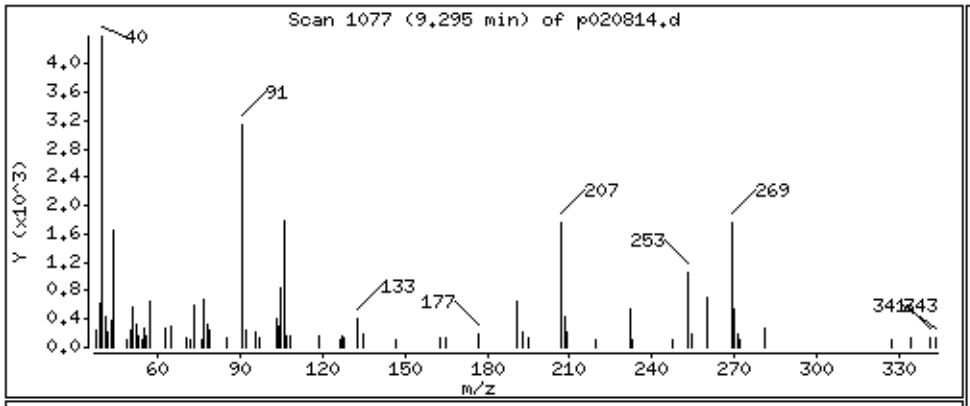
Operator: sab

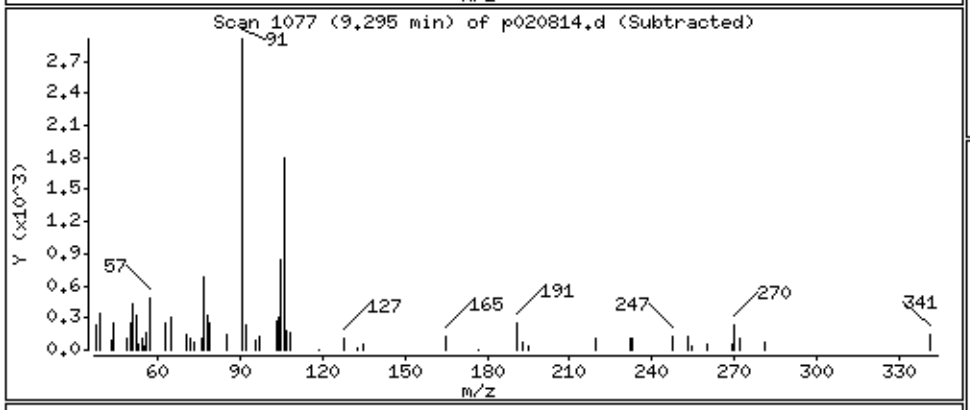
Column phase: RTX-624

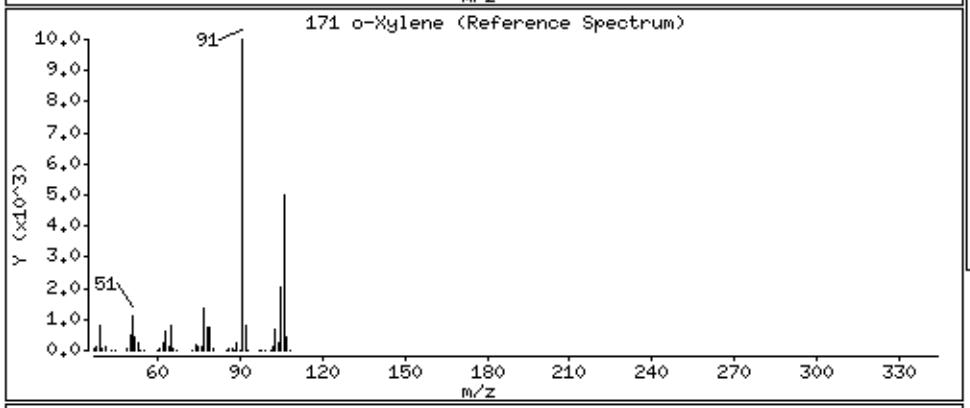
Column diameter: 0.25

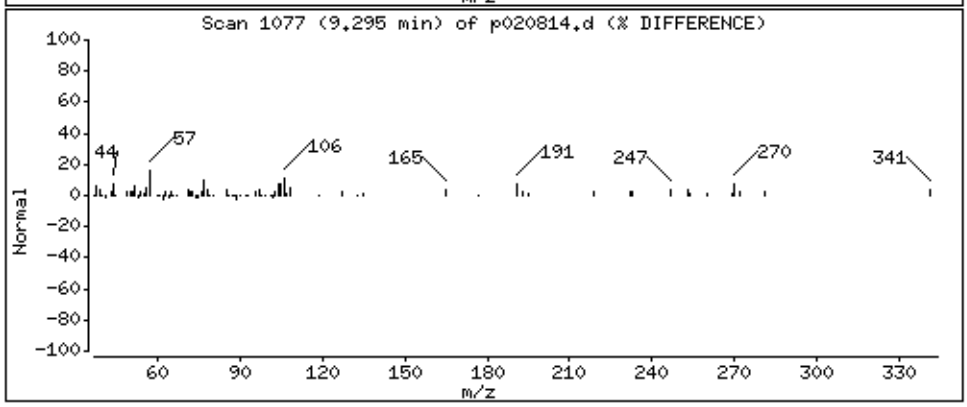
171 o-Xylene

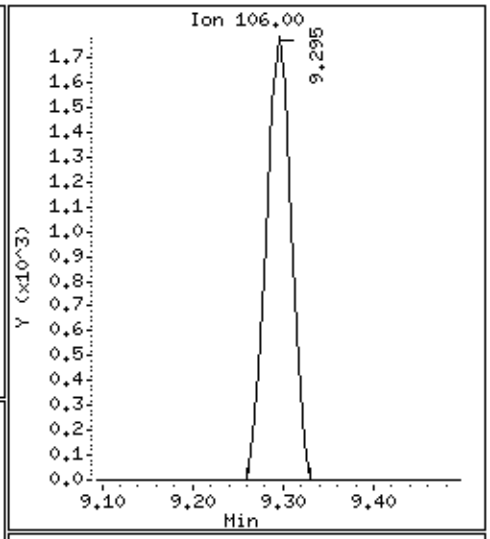
Concentration: 4.918 PPBV

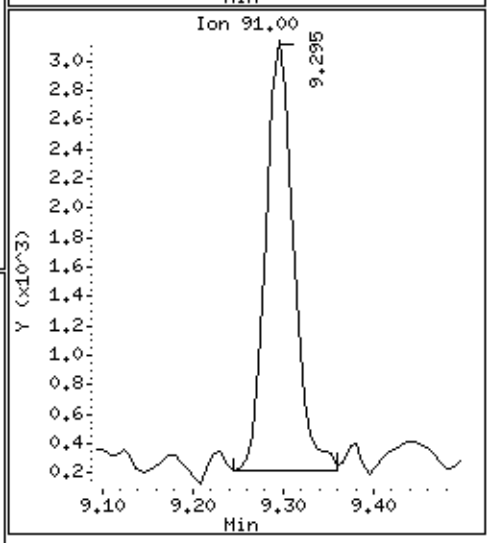












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

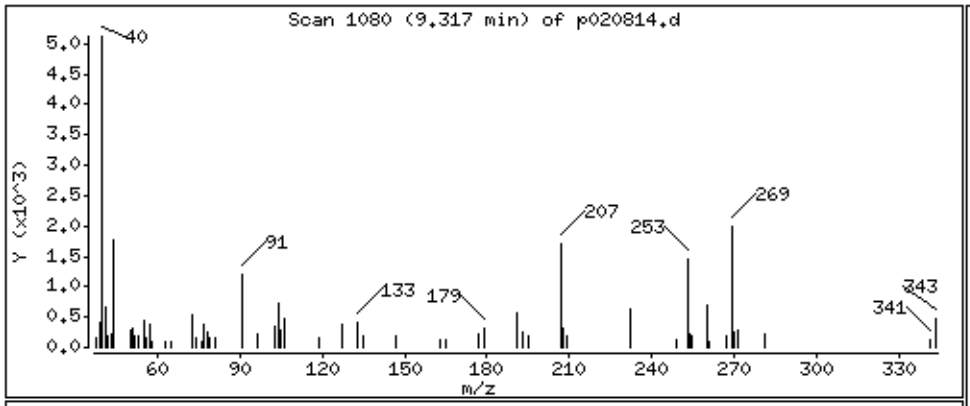
Operator: sab

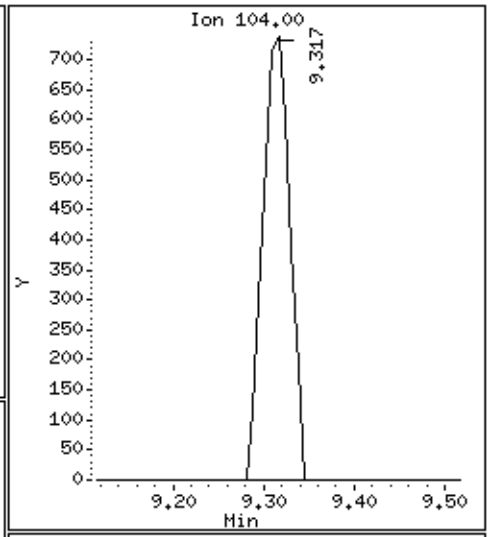
Column phase: RTX-624

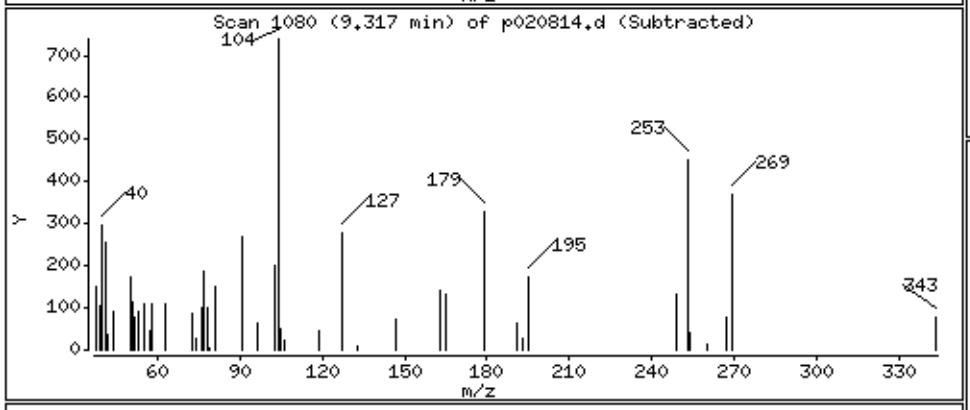
Column diameter: 0.25

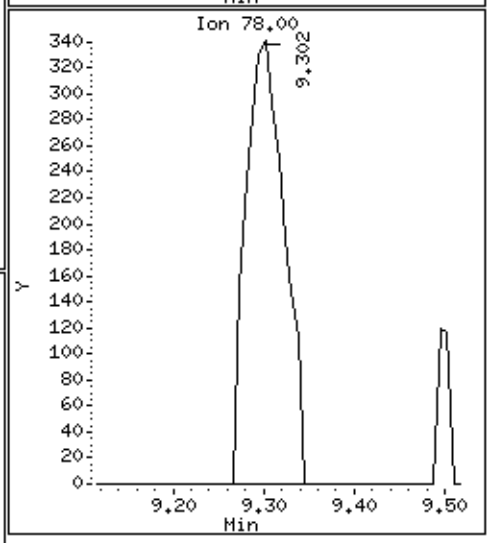
172 Styrene

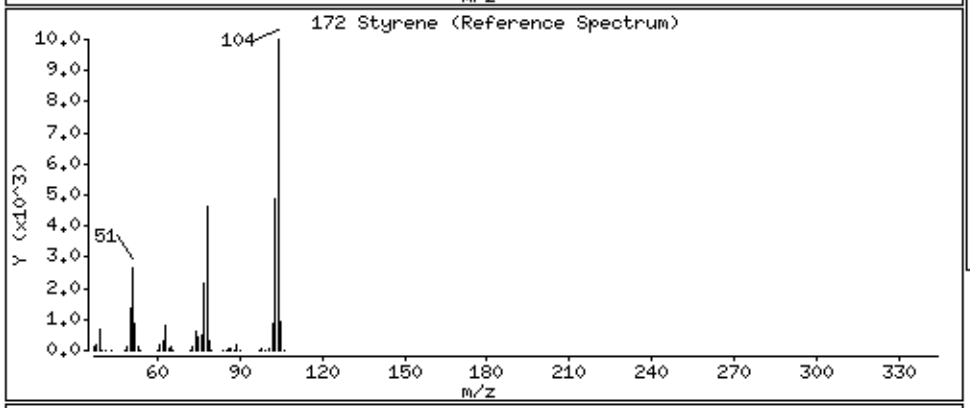
Concentration: 1.447 PPBV

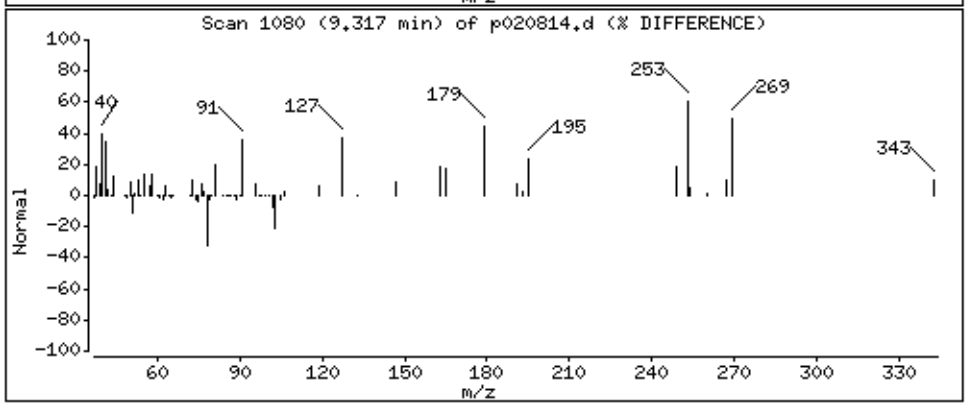












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

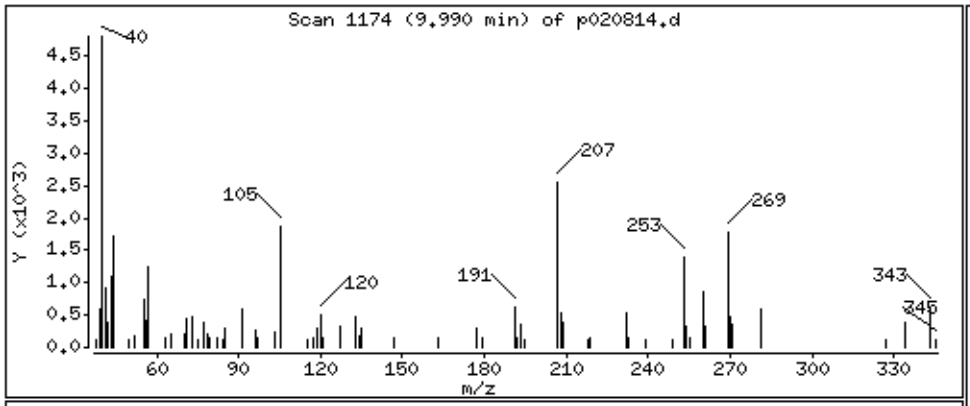
Operator: sab

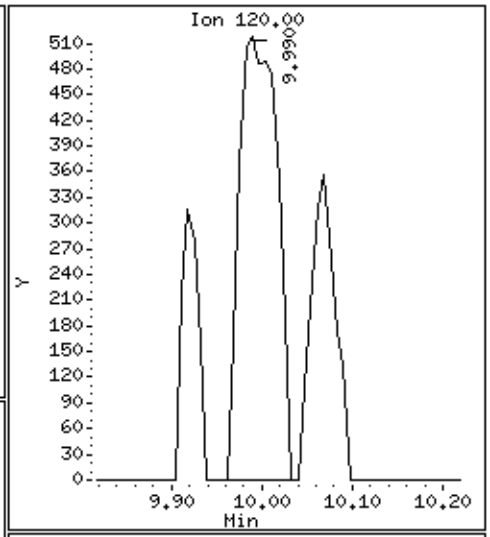
Column phase: RTX-624

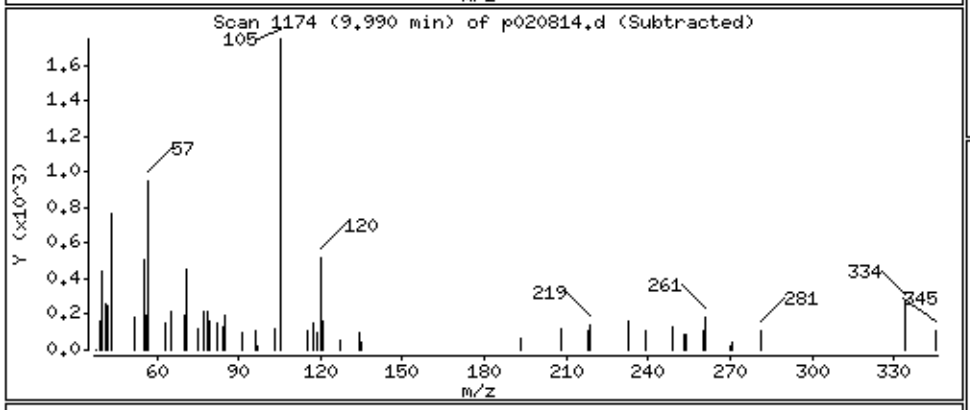
Column diameter: 0.25

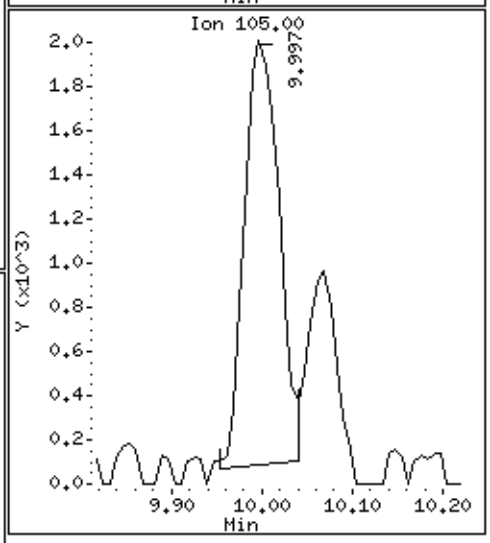
188 4-Ethyltoluene

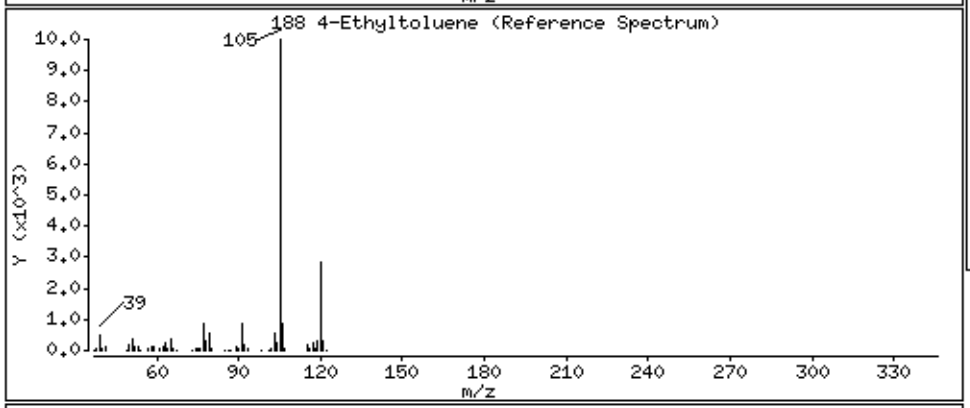
Concentration: 2.100 PPBV

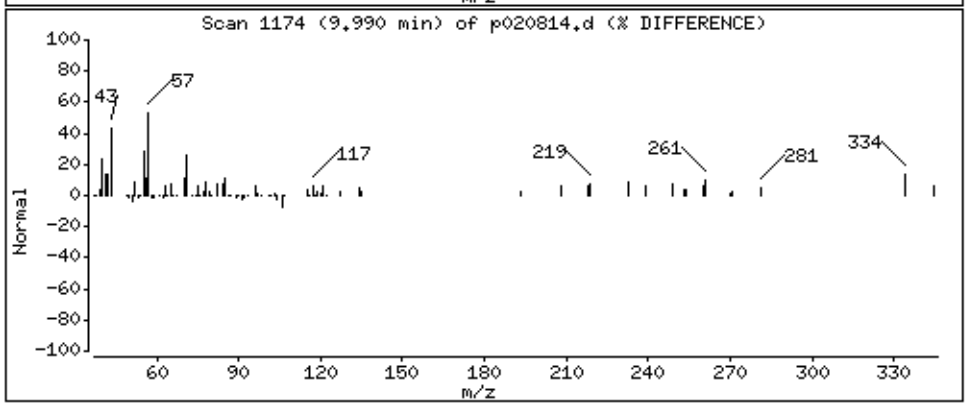












Data File: /chem/msdp.i/08feb16.b/p020814.d

Date : 08-FEB-2016 17:18

Client ID:

Instrument: msdp.i

Sample Info: 30ml 1L1942

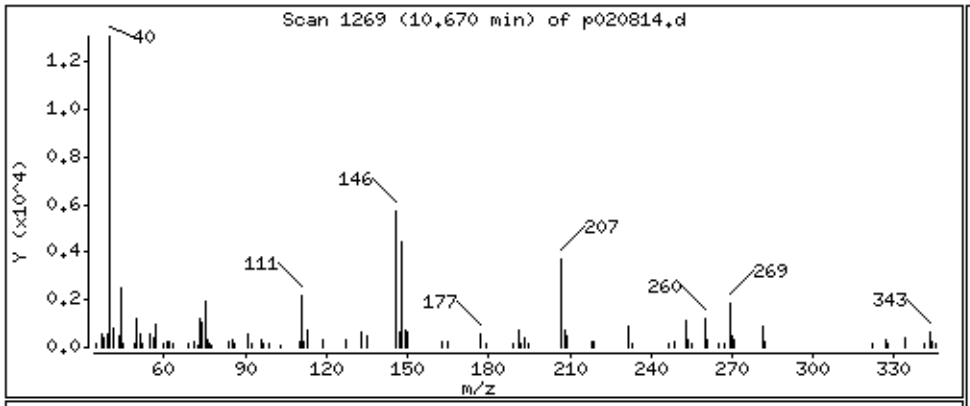
Operator: sab

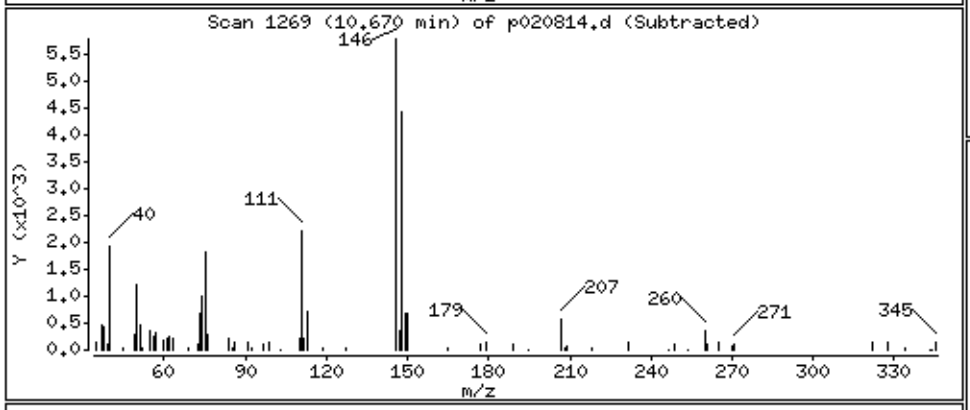
Column phase: RTX-624

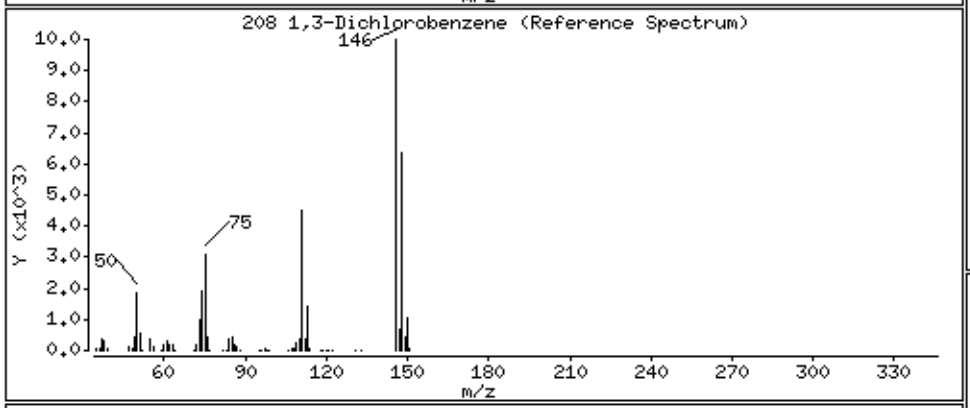
Column diameter: 0.25

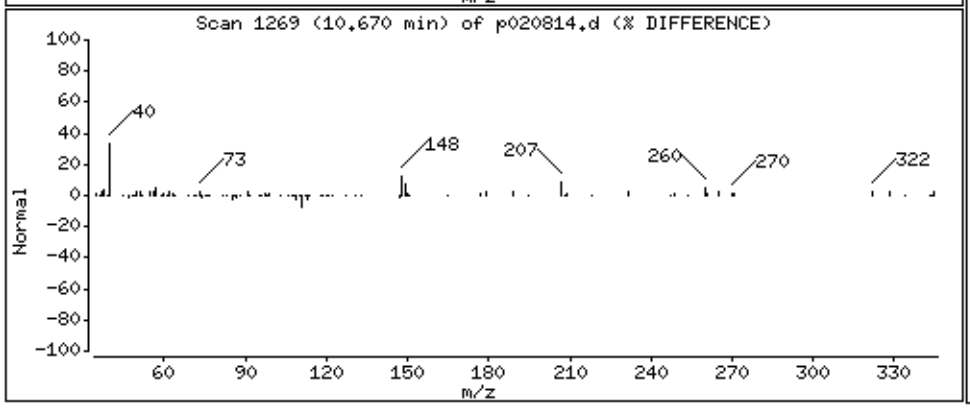
208 1,3-Dichlorobenzene

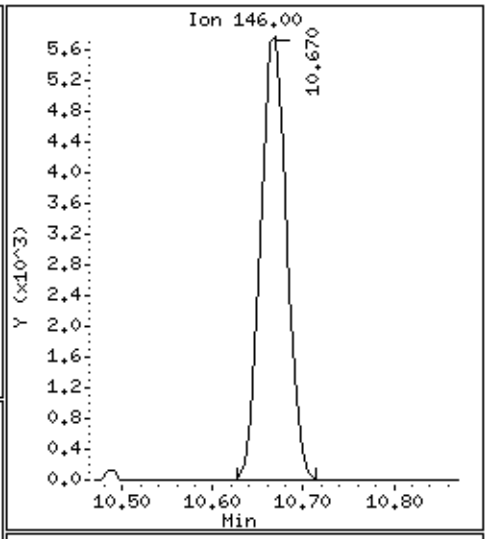
Concentration: 8.054 PPBV

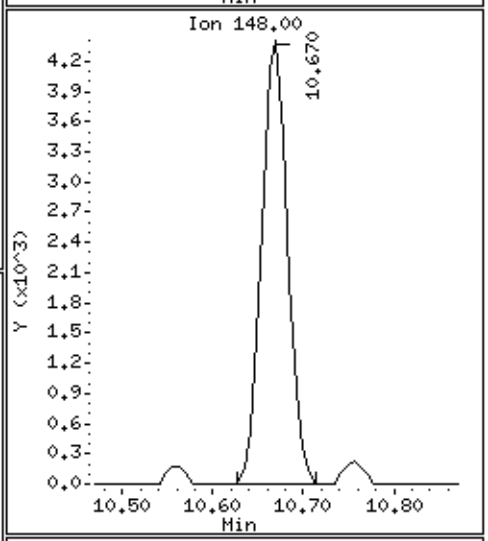


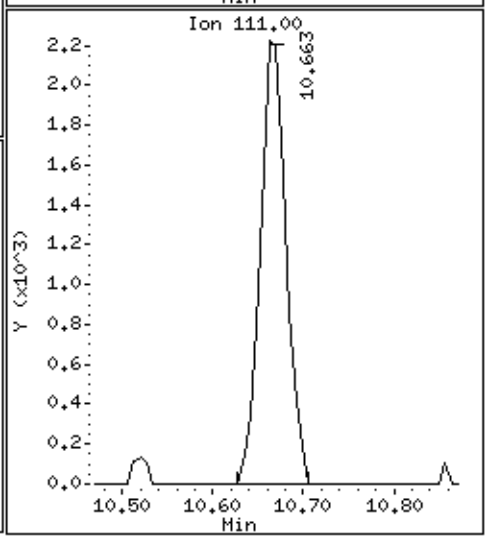












eurofins | Air Toxics

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

Client Sample ID: B30-5SSV013116

Lab ID#: 1602064B-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.58 J	5.3	2.8 J
Freon 11	1.1	0.25 J	6.0	1.4 J
Ethanol	4.3	25	8.1	48
Acetone	11	7.4 J	26	18 J
2-Propanol	4.3	25	10	61
Carbon Disulfide	4.3	0.86 J	13	2.7 J
2-Butanone (Methyl Ethyl Ketone)	4.3	1.3 J	13	3.8 J
Cyclohexane	1.1	0.50 J	3.7	1.7 J
2,2,4-Trimethylpentane	1.1	0.22 J	5.0	1.0 J
Heptane	1.1	0.68 J	4.4	2.8 J
1,4-Dioxane	4.3	0.84 J	15	3.0 J
Toluene	1.1	0.90 J	4.0	3.4 J
m,p-Xylene	1.1	0.33 J	4.7	1.4 J

eurofins | Air Toxics

Client Sample ID: B30-5SSV013116

Lab ID#: 1602064B-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020813**	**Date of Collection:**	**1/31/16 1:49:00 PM**
Dil. Factor:	**2.15**	**Date of Analysis:**	**2/8/16 04:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.58 J	5.3	2.8 J
Freon 114	1.1	Not Detected	7.5	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	0.25 J	6.0	1.4 J
Ethanol	4.3	25	8.1	48
Freon 113	1.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	7.4 J	26	18 J
2-Propanol	4.3	25	10	61
Carbon Disulfide	4.3	0.86 J	13	2.7 J
3-Chloropropene	4.3	Not Detected	13	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	1.3 J	13	3.8 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Cyclohexane	1.1	0.50 J	3.7	1.7 J
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	0.22 J	5.0	1.0 J
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	0.68 J	4.4	2.8 J
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	0.84 J	15	3.0 J
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	0.90 J	4.0	3.4 J
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected

eurofins | Air Toxics

Client Sample ID: B30-5SSV013116

Lab ID#: 1602064B-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020813**	**Date of Collection:**	**1/31/16 1:49:00 PM**
Dil. Factor:	**2.15**	**Date of Analysis:**	**2/8/16 04:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	0.33 J	4.7	1.4 J
o-Xylene	1.1	Not Detected	4.7	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Naphthalene	2.2	Not Detected	11	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	94	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020813.d
Lab Smp Id: 1602064B-15A
Inj Date : 08-FEB-2016 16:54
Operator : sab Inst ID: msdp.i
Smp Info : 200ml 11446
Misc Info : 2.2 Hg->14.6 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 13-Feb-2016 11:45 dbailey Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 5
Dil Factor: 2.15000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.15000	Dilution Factor

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	138437	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	110474			49.06- 109.06	79.80
5.456	5.449 (1.000)	49	215979			124.20- 184.20	156.01
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	568032	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	83072			0.00- 44.57	14.62
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.779 (1.000)	117	545442	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	279077			20.36- 80.36	51.17
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	198483	24.2954	24.295	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	100169			26.68- 86.68	50.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.555 (1.192)	98	570058	25.1184	25.118	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	59995			0.00- 40.62	10.52
7.562	7.555 (1.192)	100	371009			36.74- 96.74	65.08
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	414899	23.5858	23.586	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	405133			65.95- 125.95	97.65
9.761	9.761 (1.111)	176	399965			65.80- 125.80	96.40
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	4134	0.26843	0.5771	80.00- 120.00	100.00(a)
1.521	1.507 (0.279)	87	1231			1.76- 61.76	29.79
35 Freon 11					CAS #: 75-69-4		
2.576	2.569 (0.472)	101	1880	0.11714	0.2518	80.00- 120.00	100.00(a)
2.583	2.569 (0.474)	103	954			34.50- 94.50	50.79
42 Ethanol					CAS #: 64-17-5		
2.891	2.877 (0.530)	45	30991	11.7681	25.302	80.00- 120.00	100.00
2.899	2.877 (0.531)	43	7059			0.00- 50.77	22.78
2.891	2.877 (0.530)	46	13532			8.68- 68.68	43.67
52 Acetone					CAS #: 67-64-1		
3.400	3.386 (0.623)	58	12622	3.45843	7.436	80.00- 120.00	100.00(a)
3.393	3.386 (0.622)	43	44224			323.05- 383.05	350.35
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	6311	0.39989	0.8598	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.558	3.550 (0.652)	45	180728	11.6068	24.955	80.00- 120.00	100.00
3.558	3.550 (0.652)	43	35002			0.00- 49.72	19.37
3.558	3.550 (0.652)	59	7168			0.00- 33.36	3.97
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	1811	0.60481	1.300	80.00- 120.00	100.00(a)
5.262	5.248 (0.965)	43	16527			452.15- 512.15	912.50
5.255	5.248 (0.963)	57	1359			9.54- 69.54	75.07
102 Cyclohexane					CAS #: 110-82-7		
5.621	5.628 (1.030)	84	2008	0.23331	0.5016	80.00- 120.00	100.00(a)
5.649	5.628 (1.035)	56	6560			115.43- 175.43	326.69
5.628	5.628 (1.032)	41	3766			53.65- 113.65	187.55
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	3803	0.10005	0.2151	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)							
5.950	5.964 (1.091)	56	1533			1.10- 61.10	40.32
5.936	5.964 (1.088)	41	2086			0.00- 57.08	54.86
121 Heptane					CAS #: 142-82-5		
6.136	6.129 (0.967)	71	2384	0.31857	0.6849	80.00- 120.00	100.00(a)
6.136	6.129 (0.967)	43	4252			172.43- 232.43	178.38
6.143	6.129 (0.968)	57	3173			85.51- 145.51	133.10
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.853 (1.081)	88	1688	0.39157	0.8419	80.00- 120.00	100.00(a)
6.860	6.853 (1.081)	58	1543			52.00- 112.00	91.38
6.881	6.853 (1.085)	57	254			0.00- 56.29	15.04
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	10181	0.42063	0.9043	80.00- 120.00	100.00(a)
7.612	7.612 (1.200)	92	4841			27.38- 87.38	47.55
169 m,p-Xylene					CAS #: 108-38-3		
8.959	8.959 (1.020)	106	1997	0.15212	0.3270	80.00- 120.00	100.00(a)
8.959	8.959 (1.020)	91	4648			166.59- 226.59	232.76

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: p020813.d
Lab Smp Id: 1602064B-15A
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 2.2 Hg->14.6 psi

Calibration Date: 08-FEB-2016
Calibration Time: 10:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	138437	-9.22
123 1,4-Difluorobenze	608067	364840	851294	568032	-6.58
163 Chlorobenzene-d5	577195	346317	808073	545442	-5.50

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	8.79	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: 15-Feb-2016 13:55

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1602064B-15A
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 2.2 Hg->14.6 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.295	97.18	70-130
$ 146 Toluene-d8	25.000	25.118	100.47	70-130
$ 177 4-Bromofluorobenze	25.000	23.586	94.34	70-130

Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

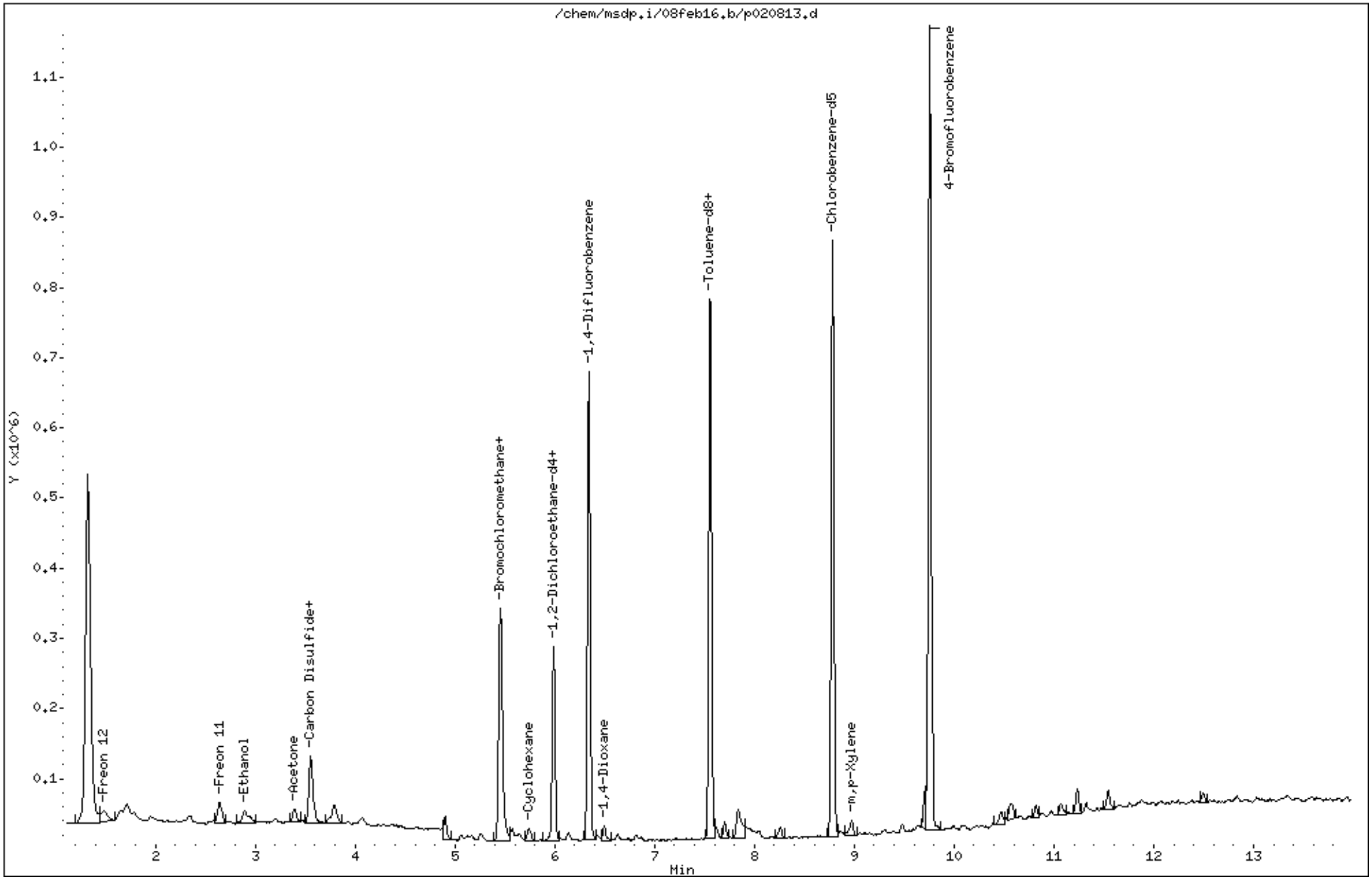
Sample Info: 200ml 11446

Column phase: RTX-624

Instrument: msdp.i

Operator: sab

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

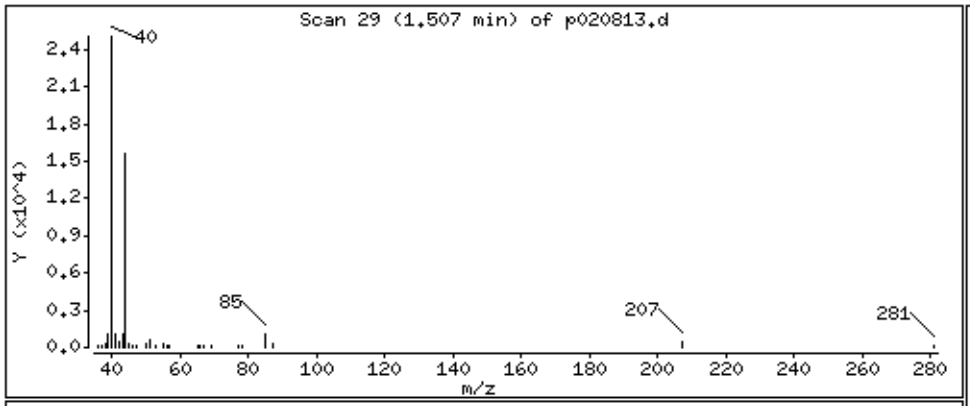
Operator: sab

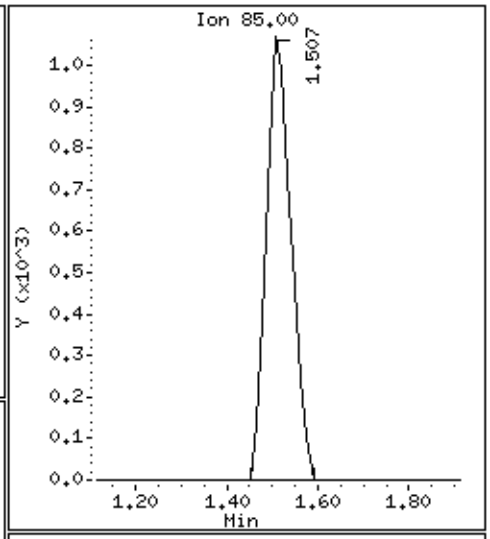
Column phase: RTX-624

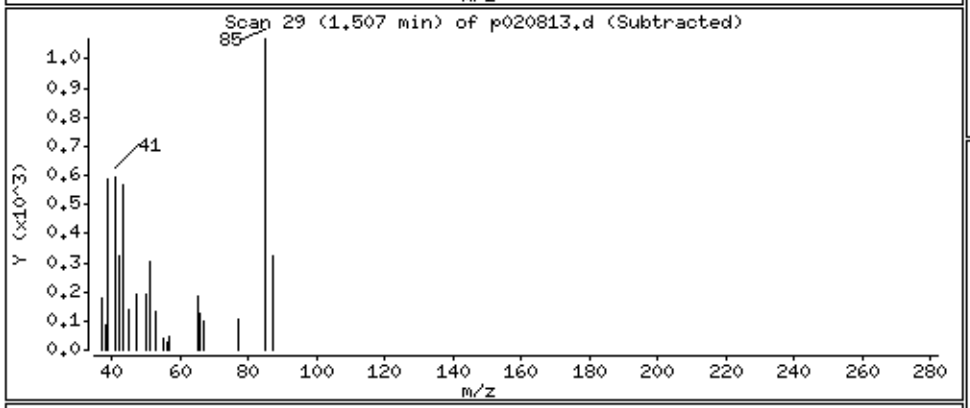
Column diameter: 0.25

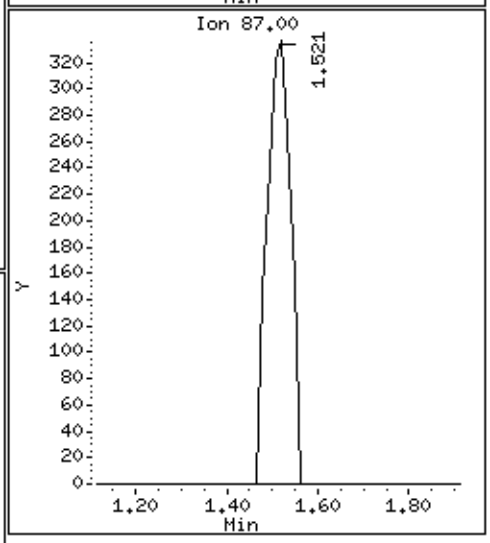
11 Freon 12

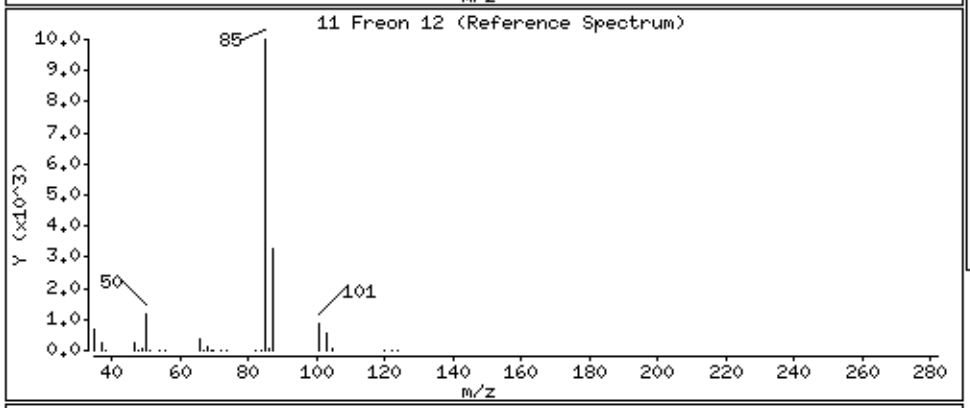
Concentration: 0.5771 PPBV

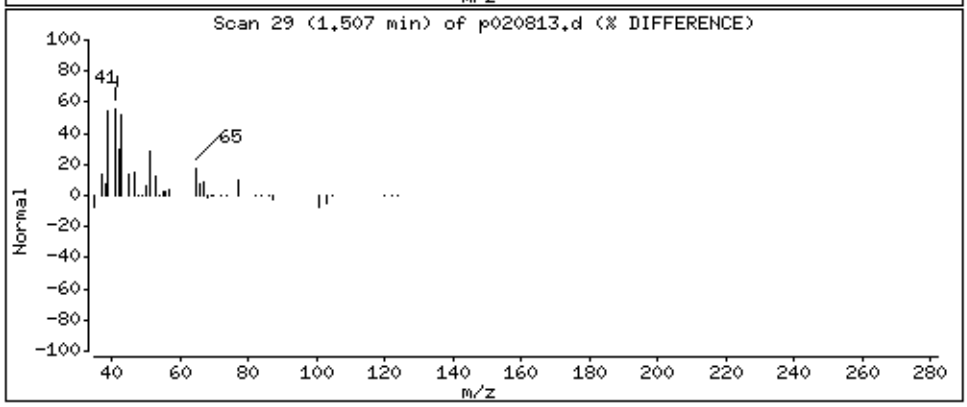












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

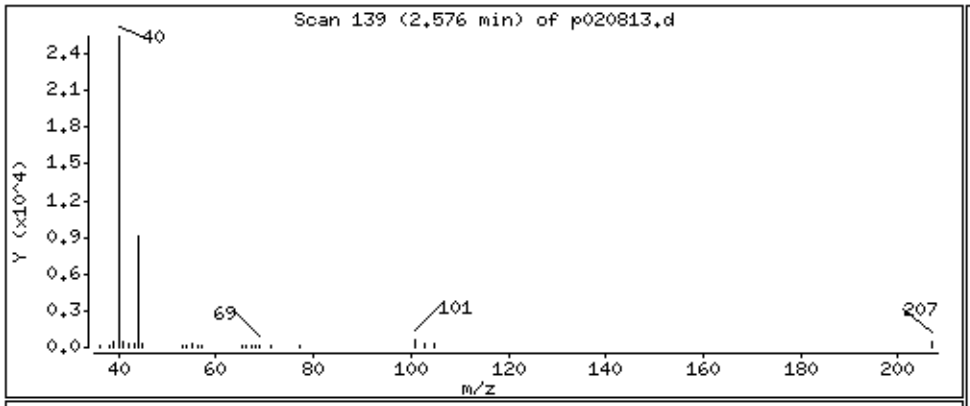
Operator: sab

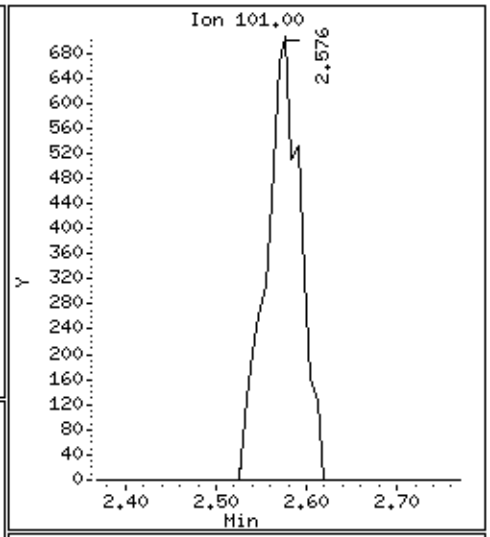
Column phase: RTX-624

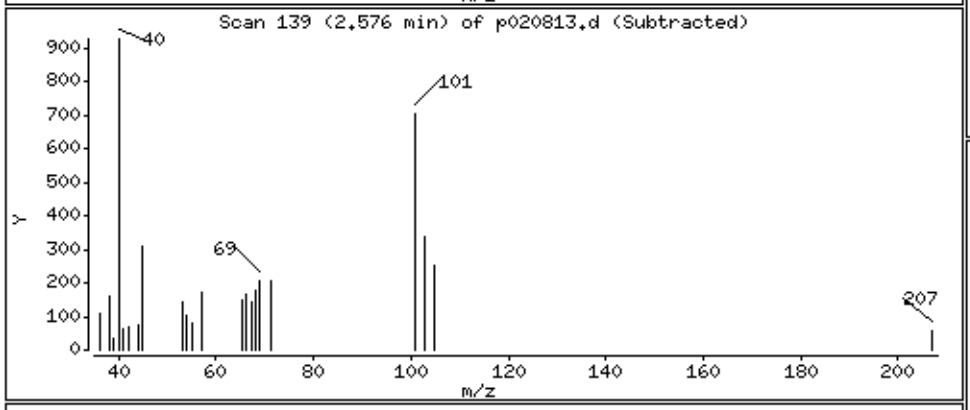
Column diameter: 0.25

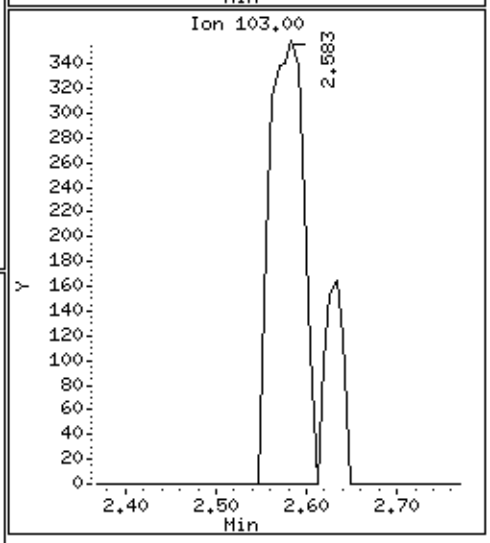
35 Freon 11

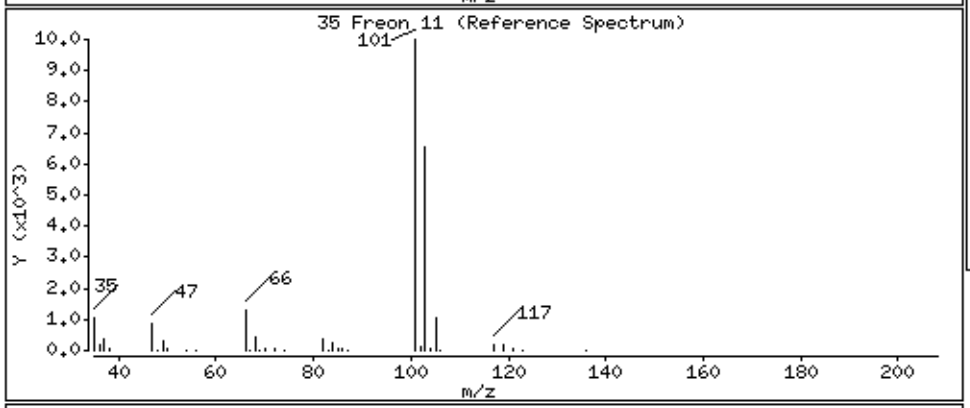
Concentration: 0.2518 PPBV

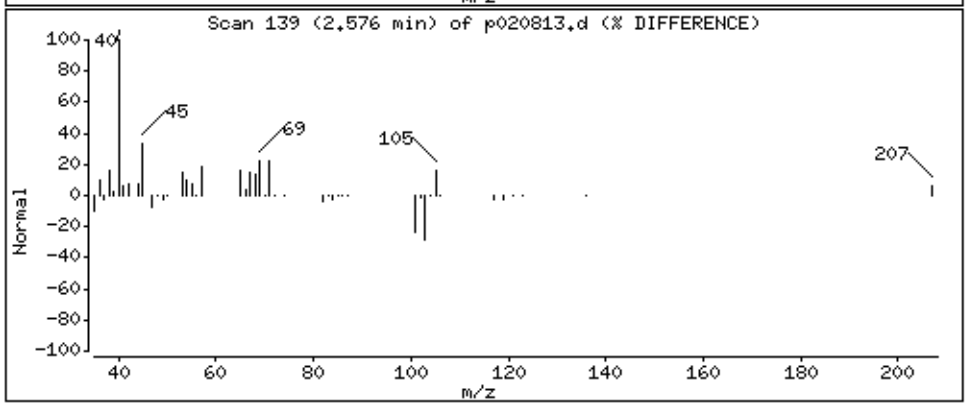












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

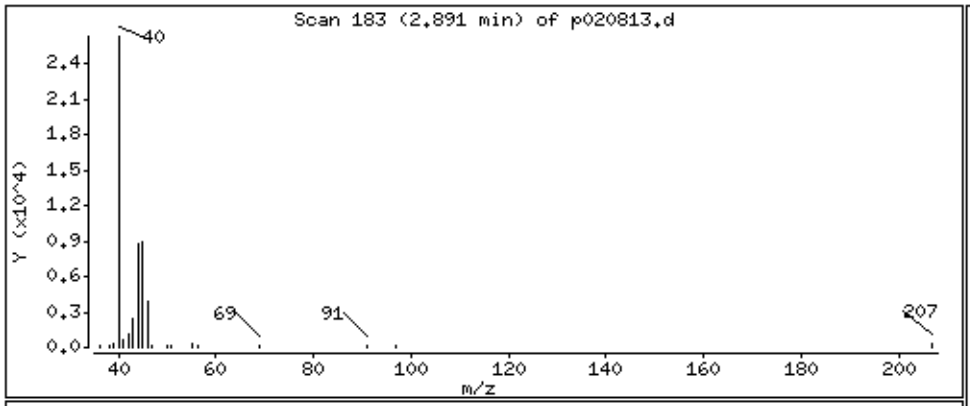
Operator: sab

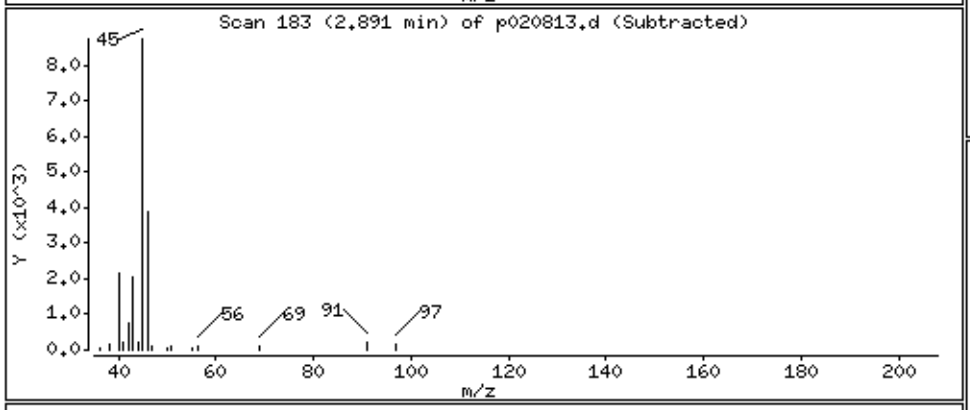
Column phase: RTX-624

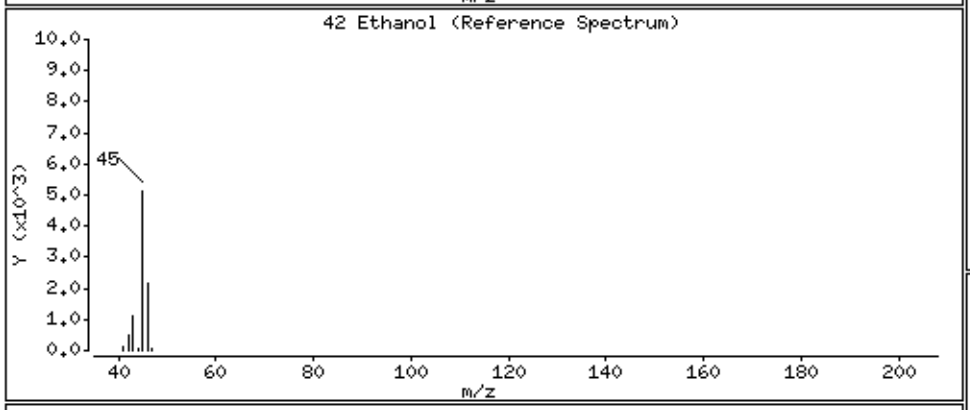
Column diameter: 0.25

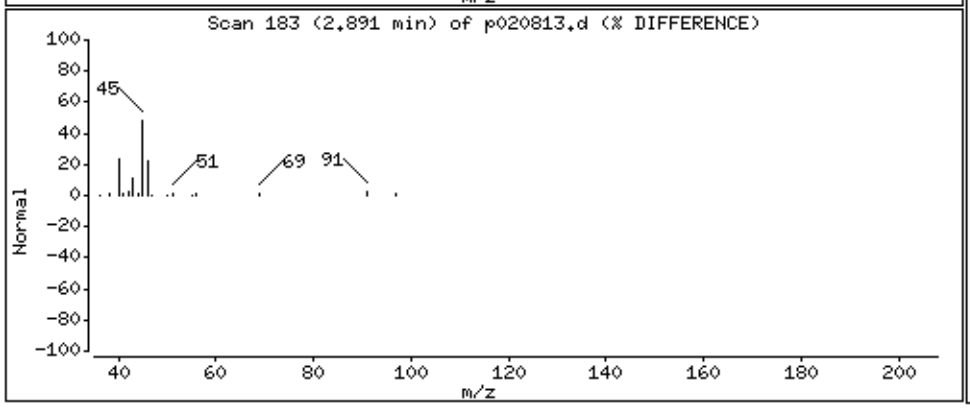
42 Ethanol

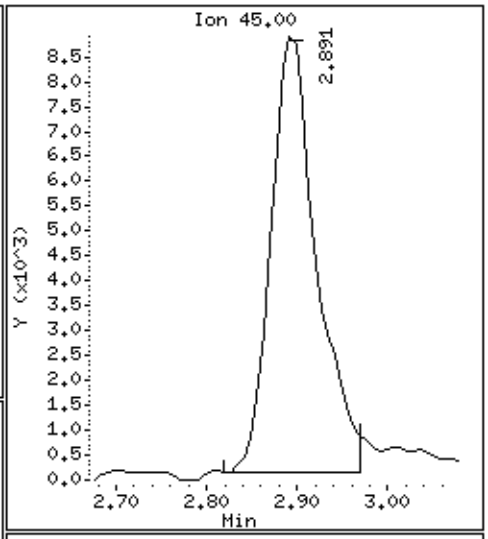
Concentration: 25.302 PPBV

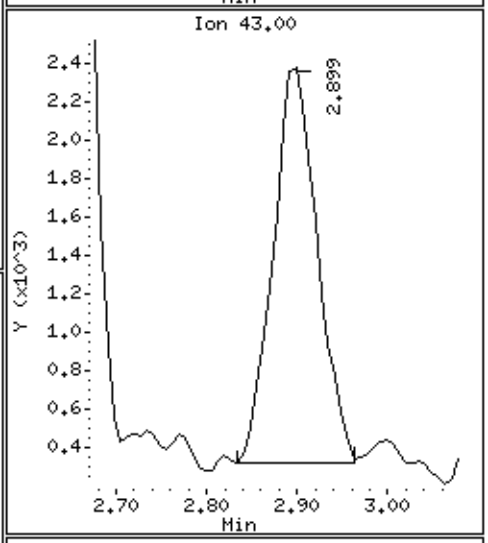


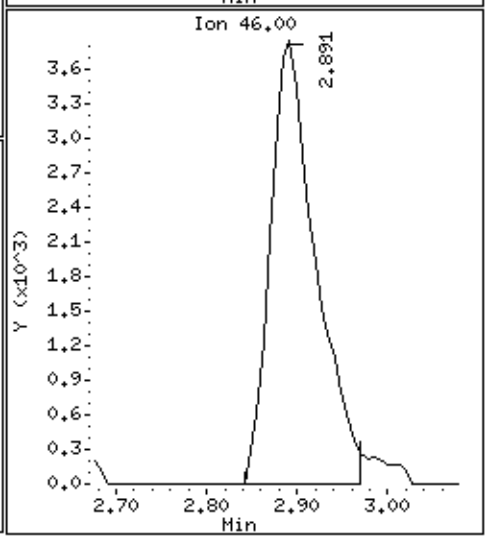












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

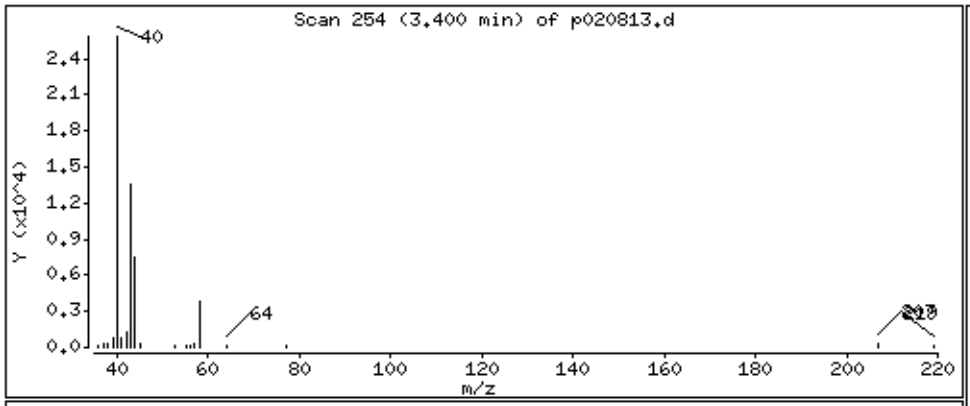
Operator: sab

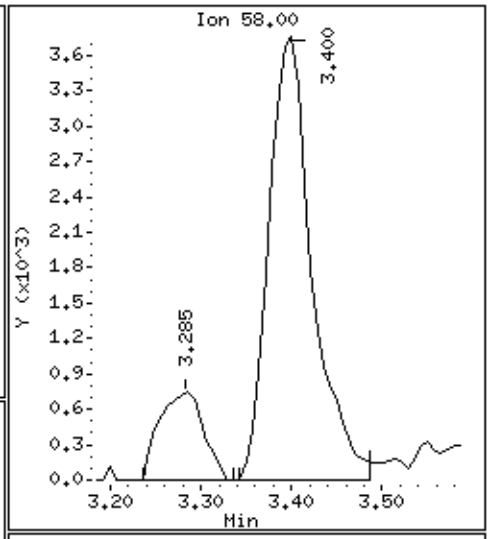
Column phase: RTX-624

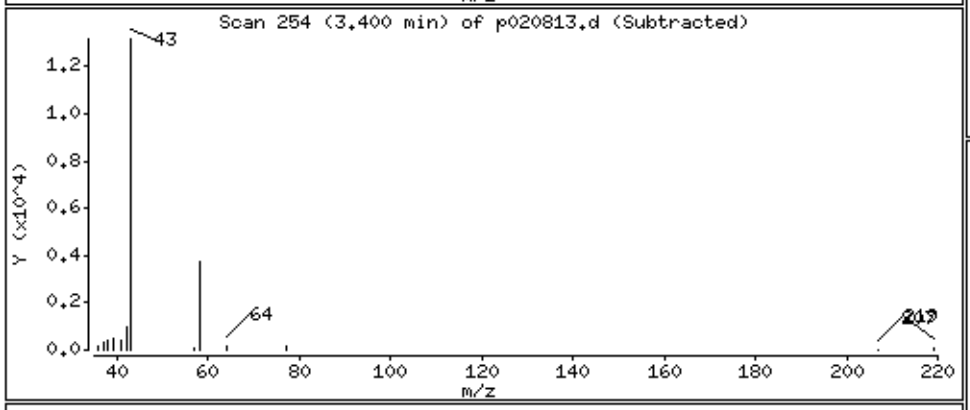
Column diameter: 0.25

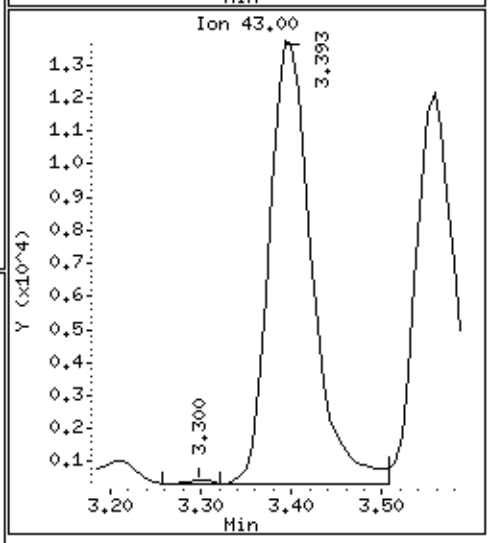
52 Acetone

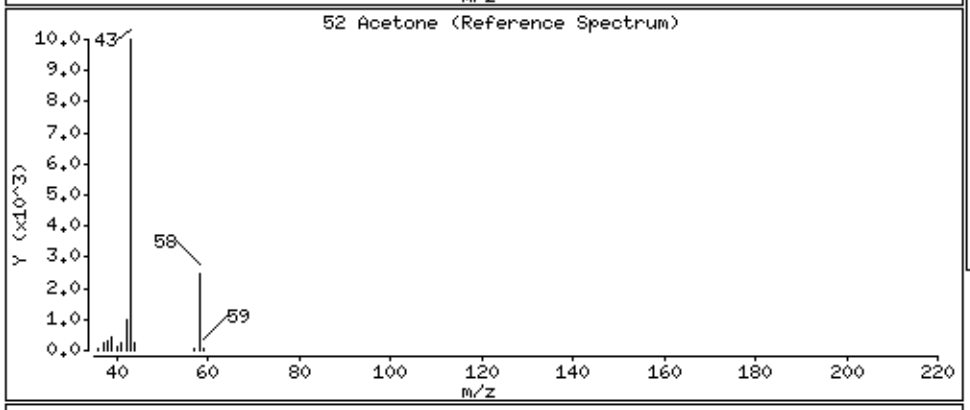
Concentration: 7.436 PPBV

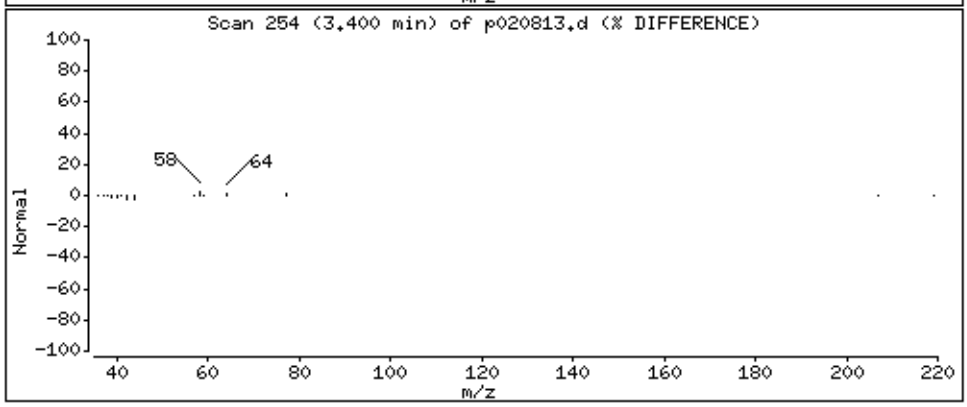












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

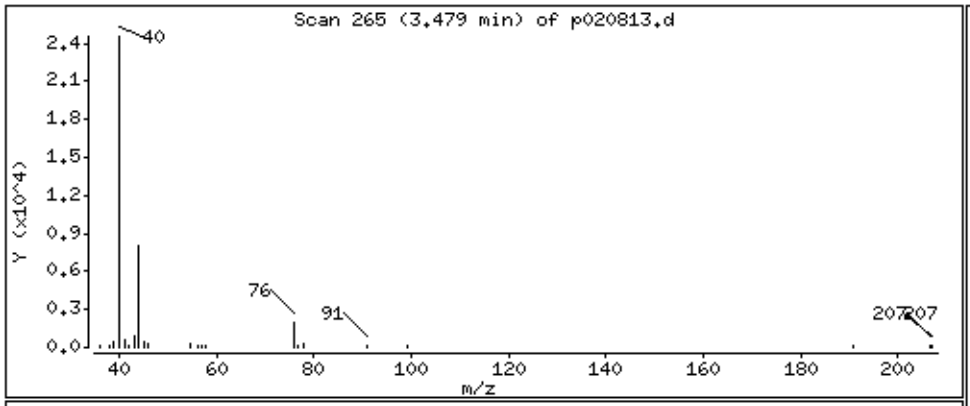
Operator: sab

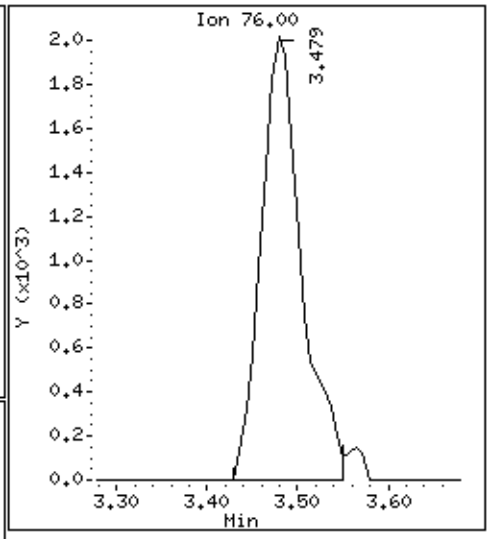
Column phase: RTX-624

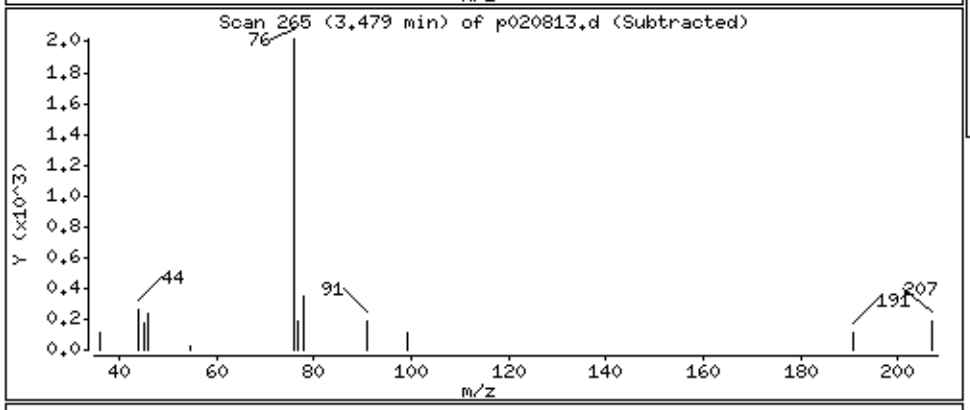
Column diameter: 0.25

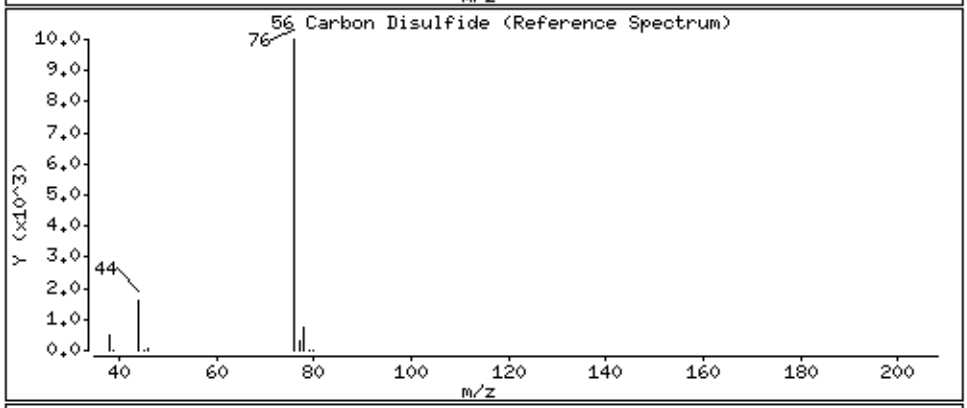
56 Carbon Disulfide

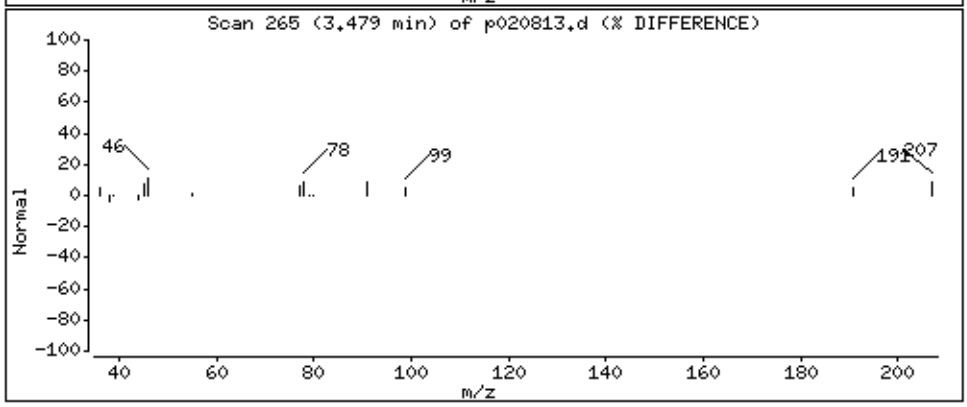
Concentration: 0.8598 PPBV











Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

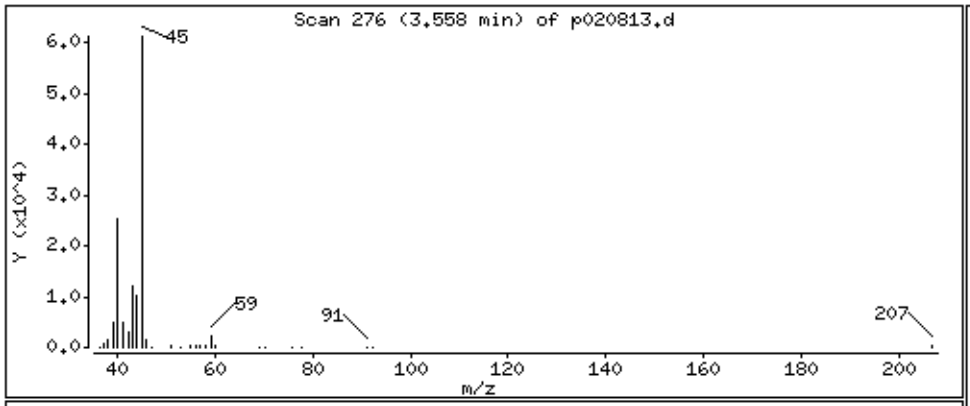
Operator: sab

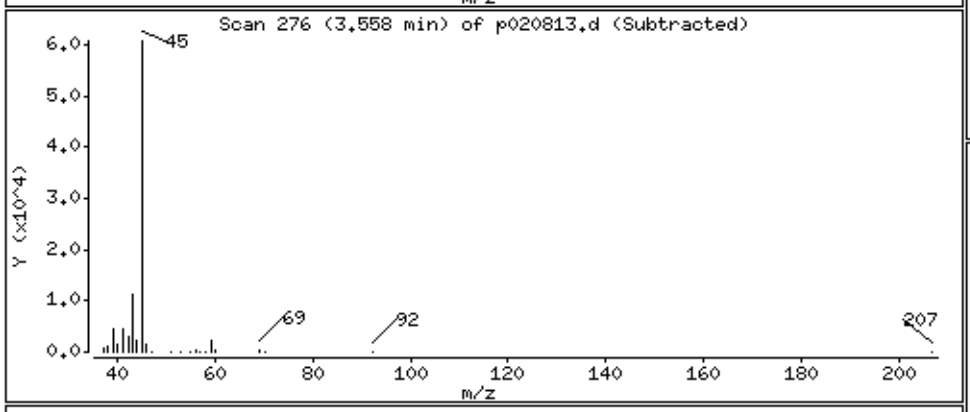
Column phase: RTX-624

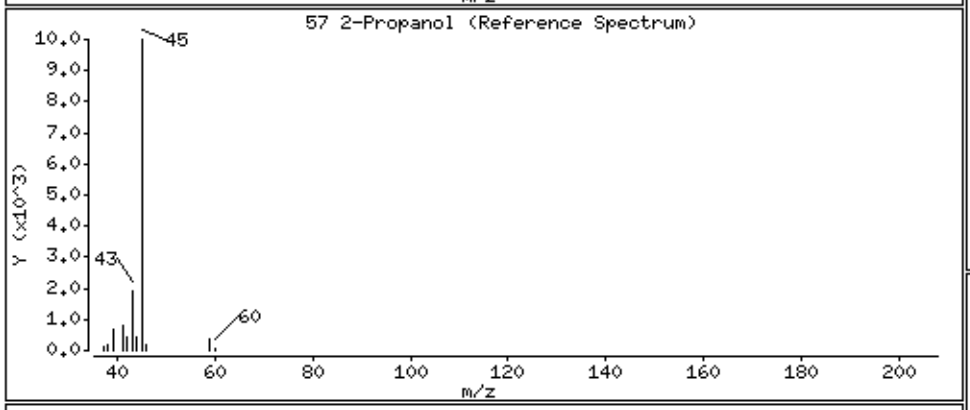
Column diameter: 0.25

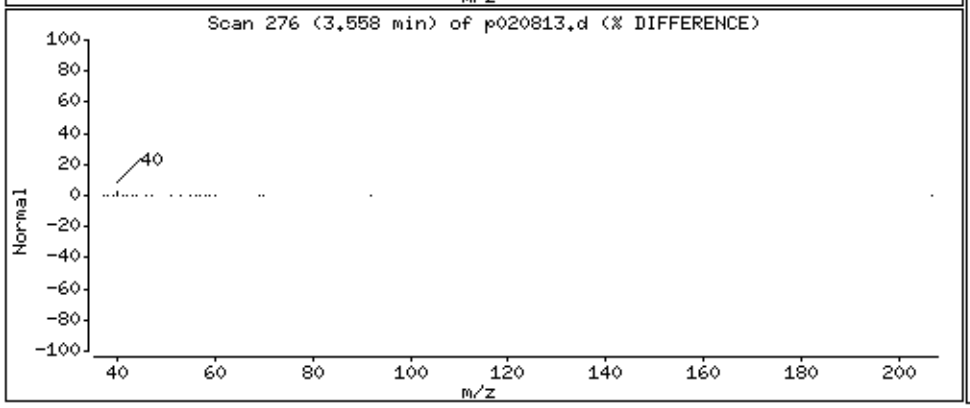
57 2-Propanol

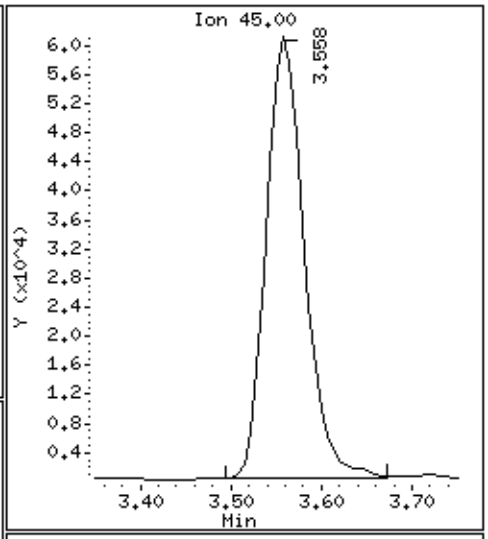
Concentration: 24.955 PPBV

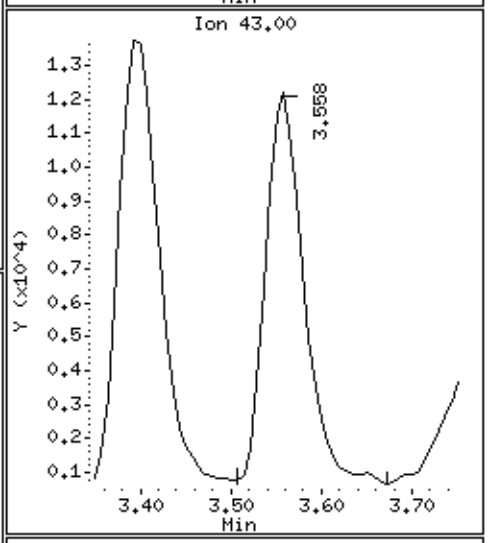


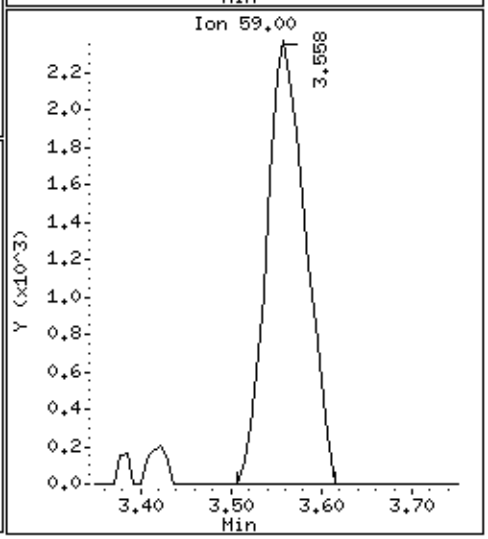












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

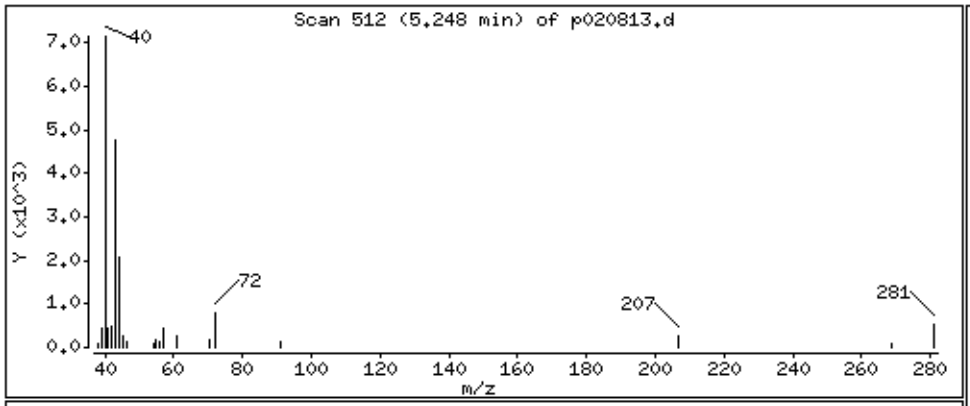
Operator: sab

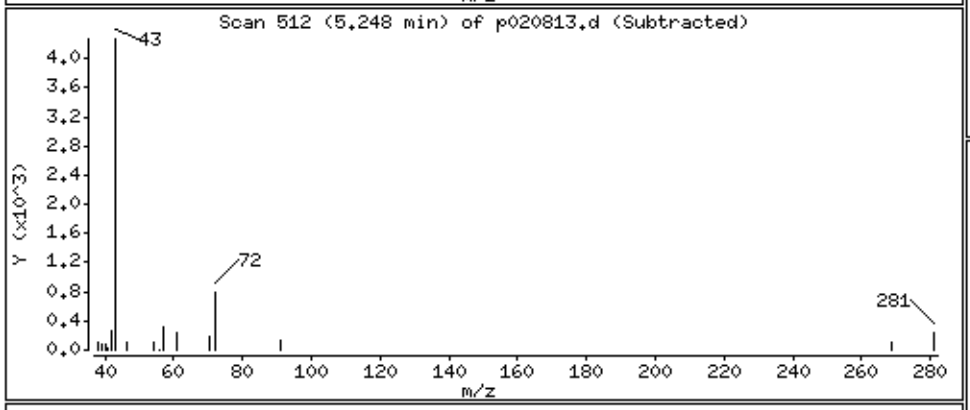
Column phase: RTX-624

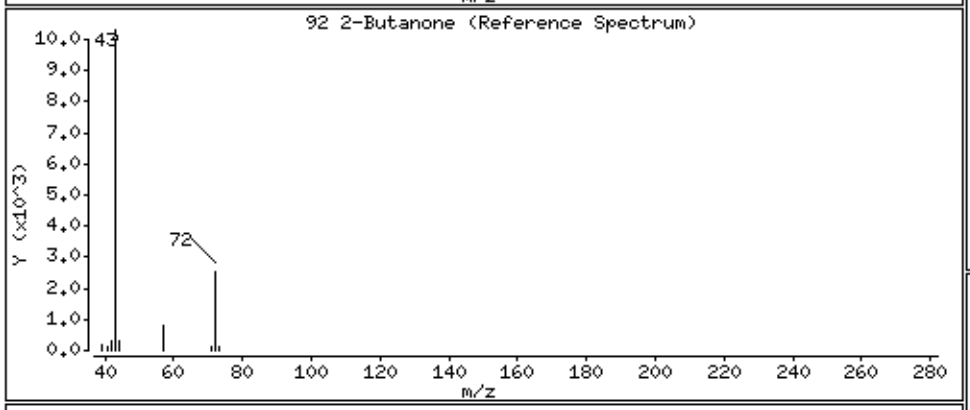
Column diameter: 0.25

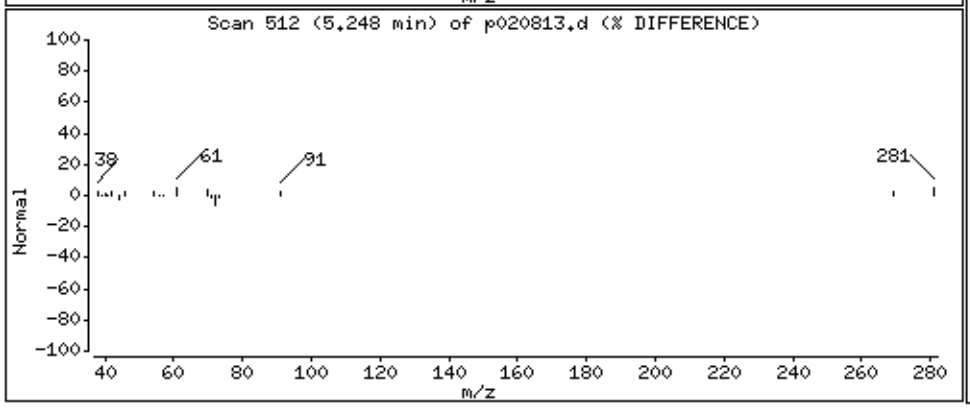
92 2-Butanone

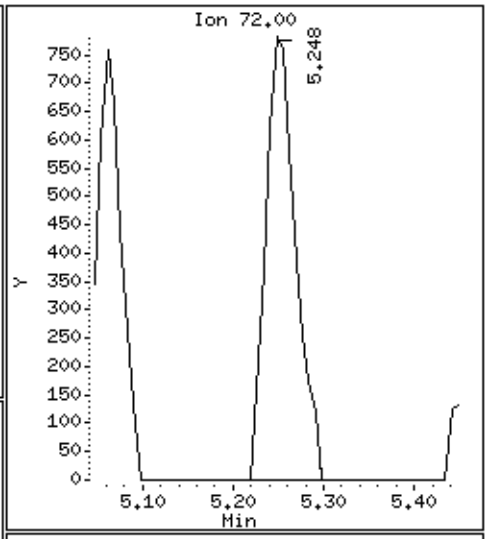
Concentration: 1.300 PPBV

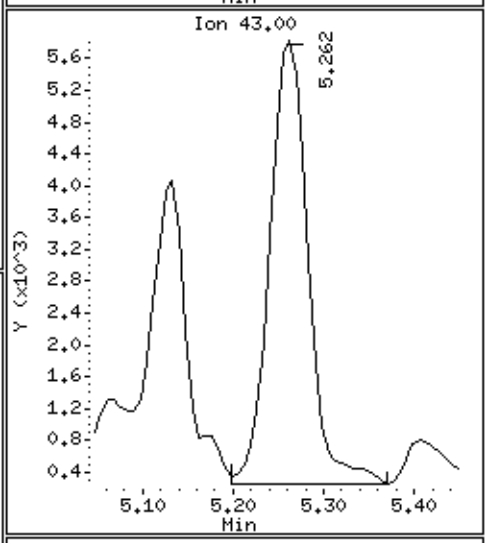


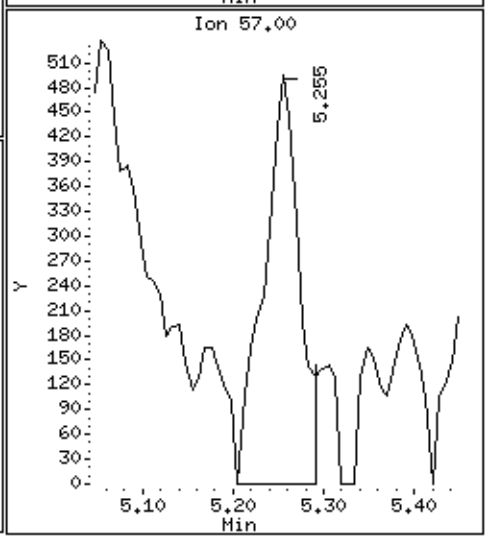












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

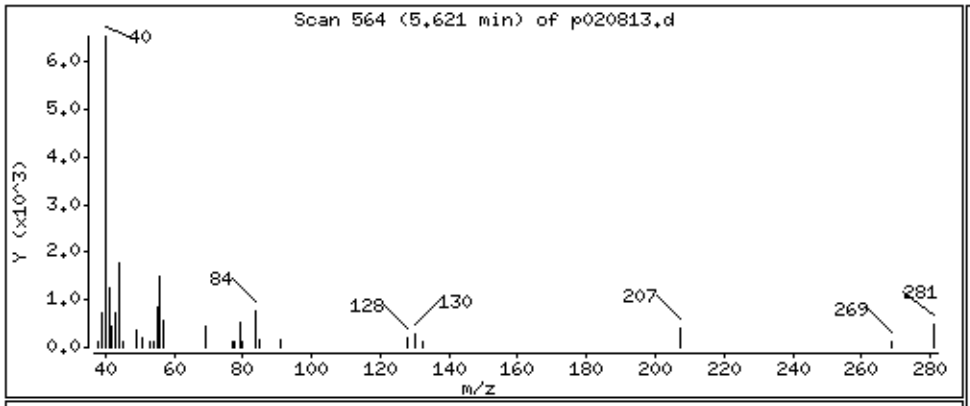
Operator: sab

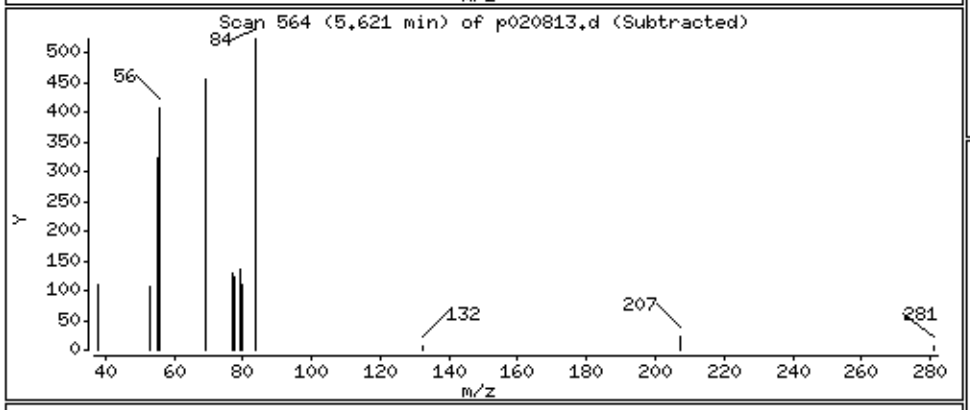
Column phase: RTX-624

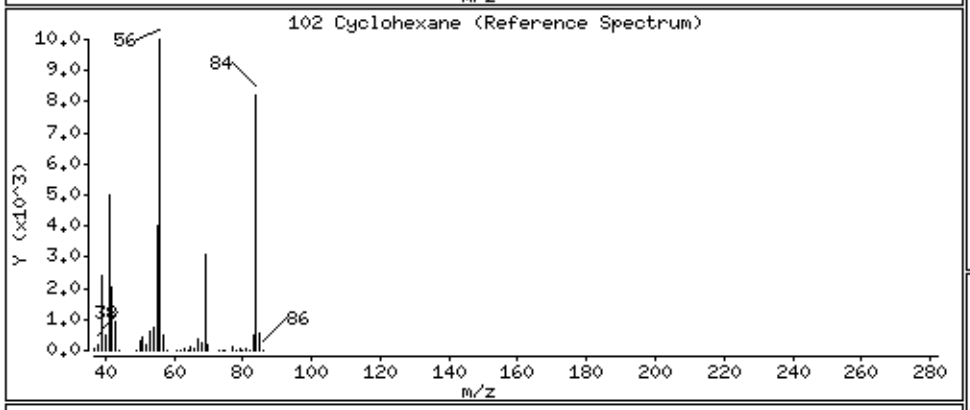
Column diameter: 0.25

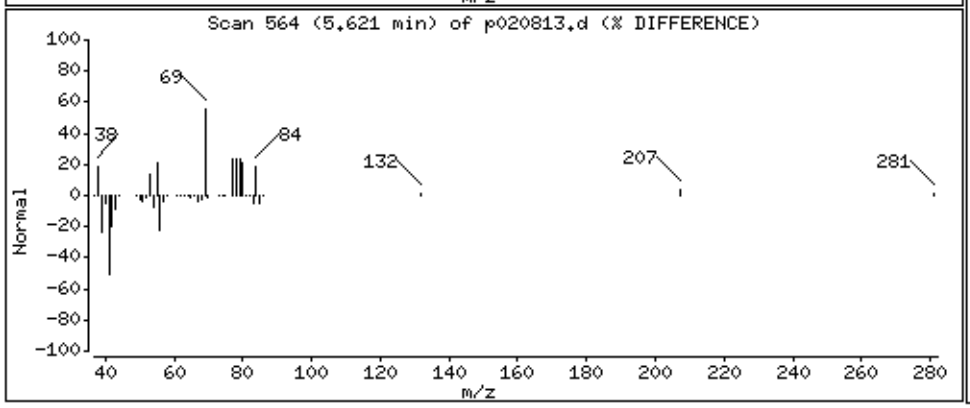
102 Cyclohexane

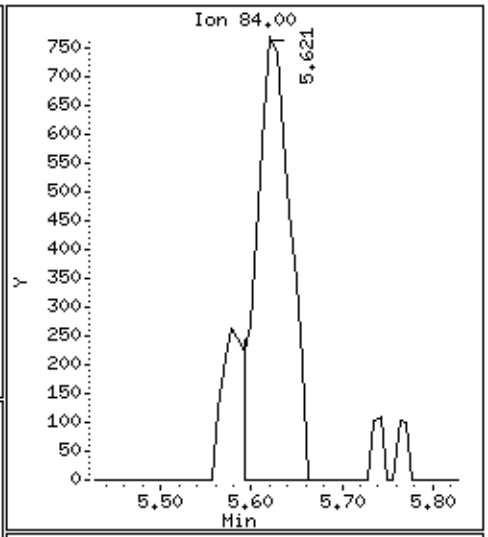
Concentration: 0.5016 PPBV

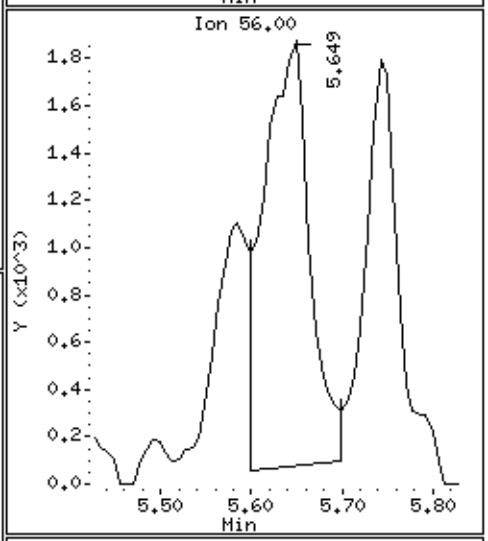


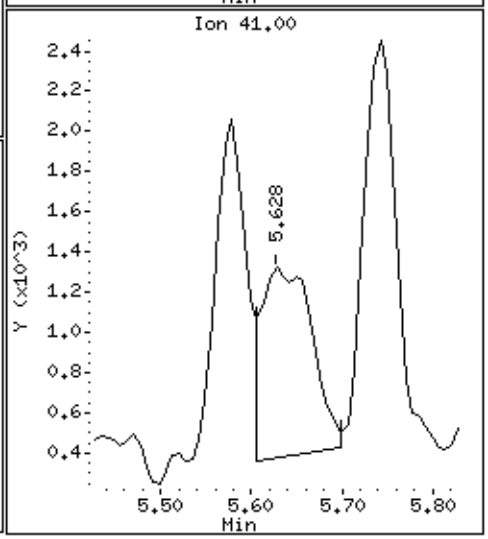












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

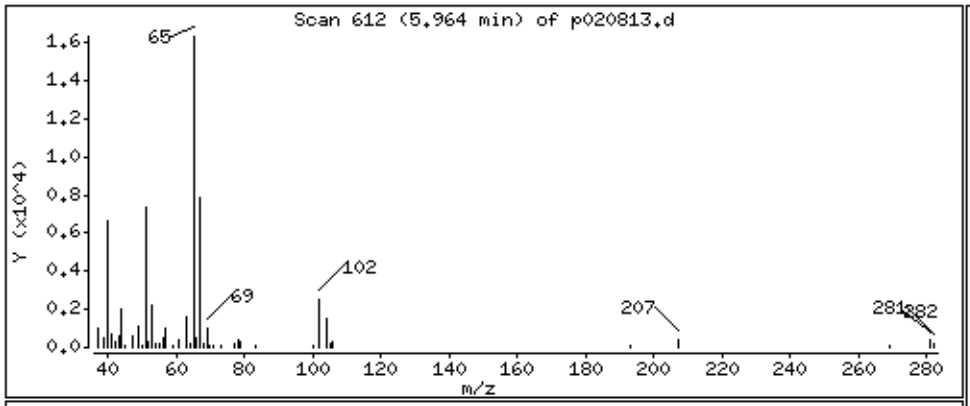
Operator: sab

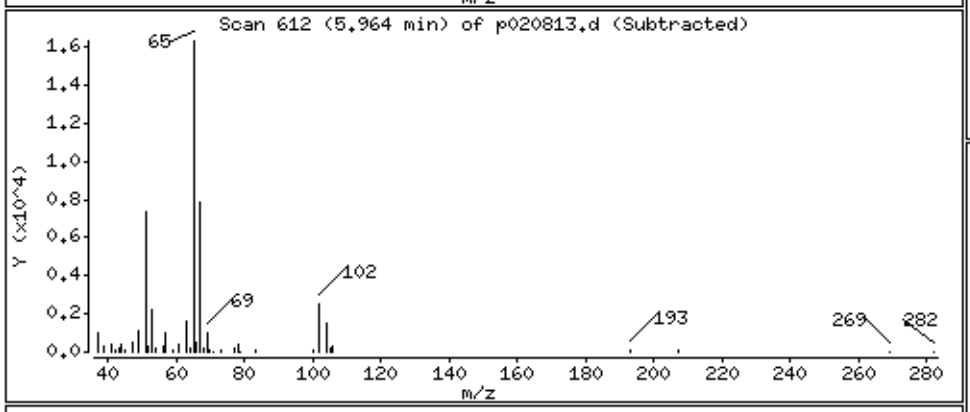
Column phase: RTX-624

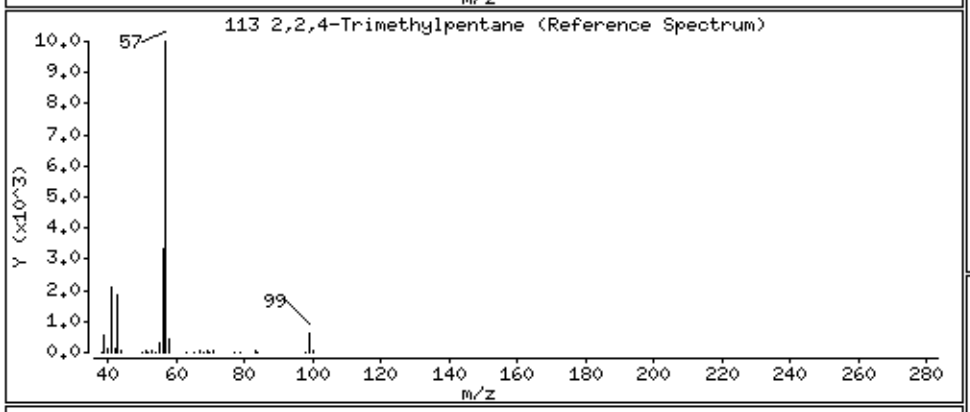
Column diameter: 0.25

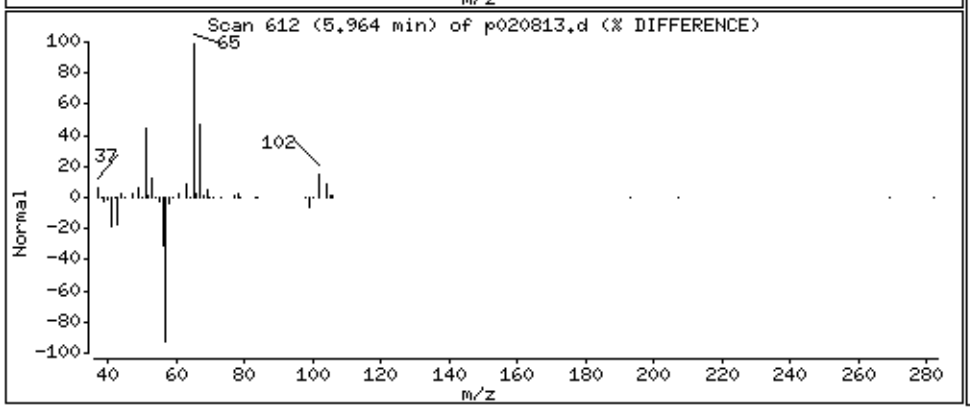
113 2,2,4-Trimethylpentane

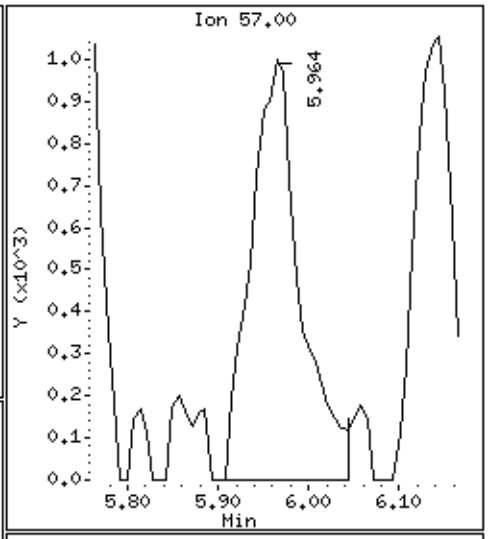
Concentration: 0.2151 PPBV

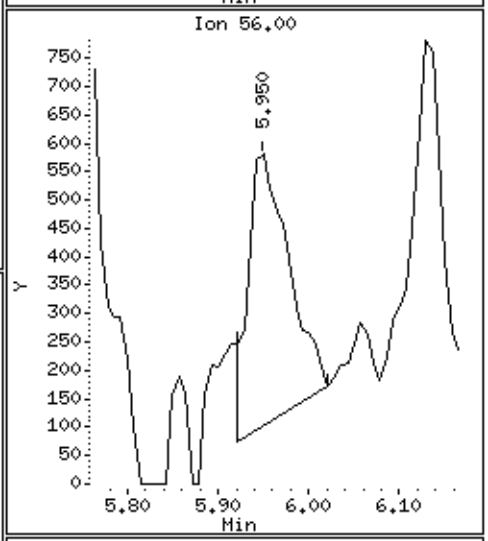


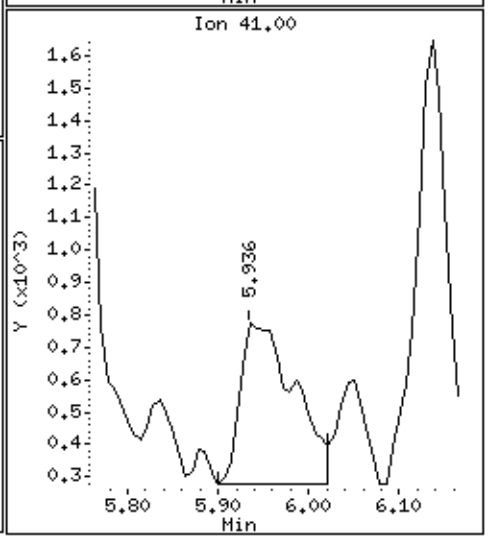












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

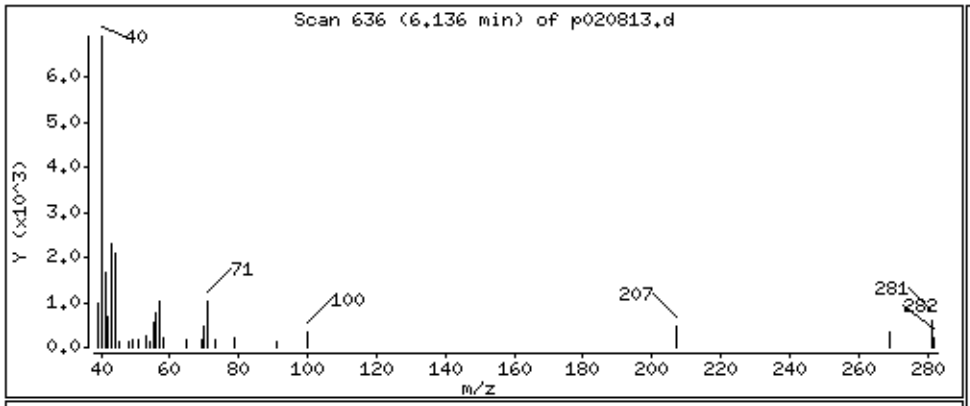
Operator: sab

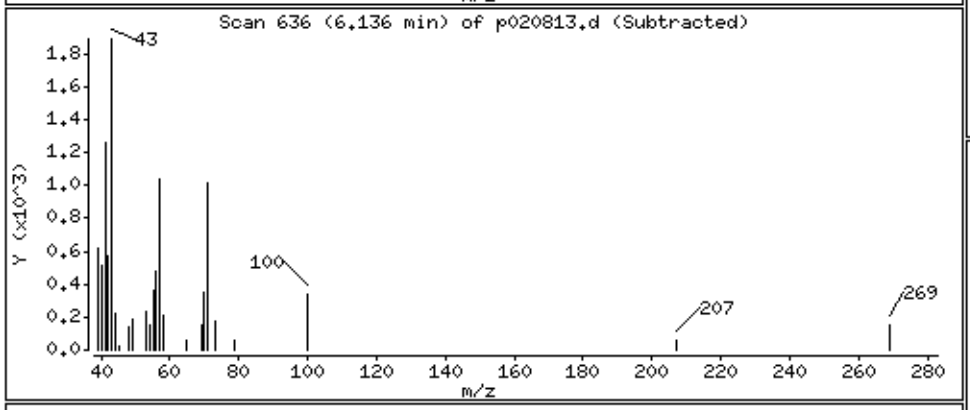
Column phase: RTX-624

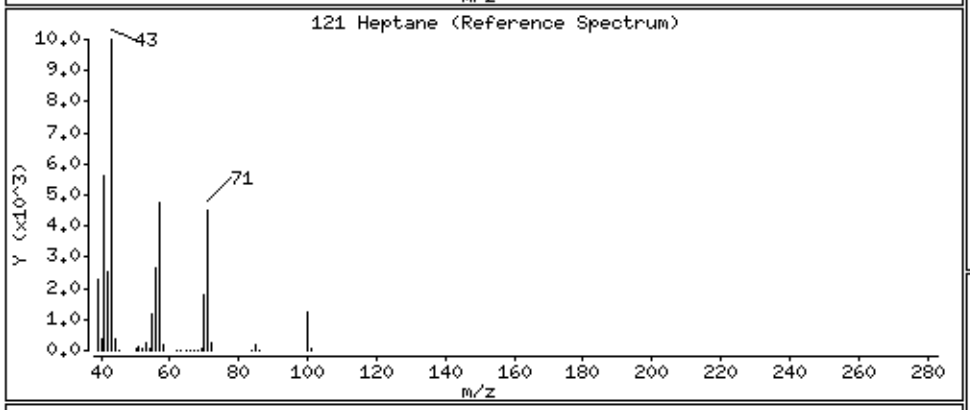
Column diameter: 0.25

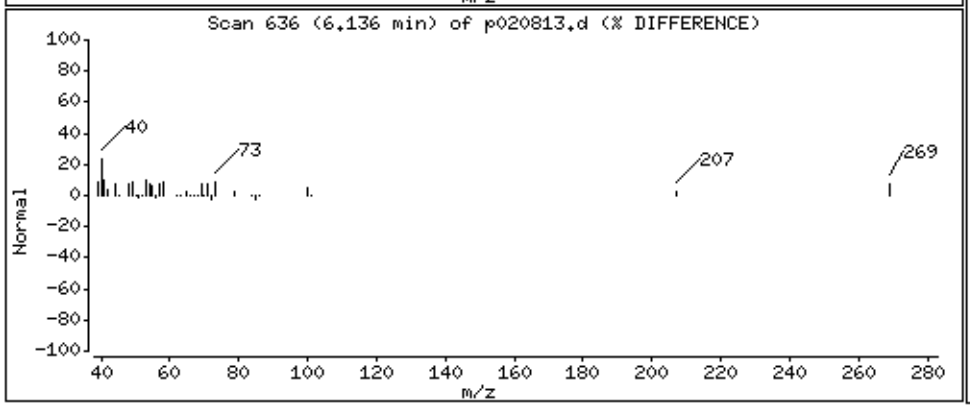
121 Heptane

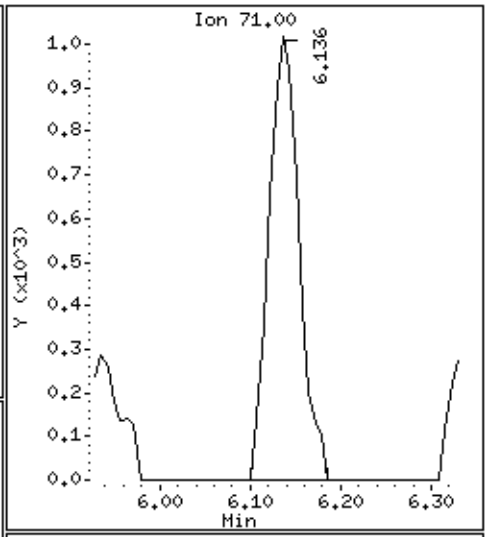
Concentration: 0.6849 PPBV

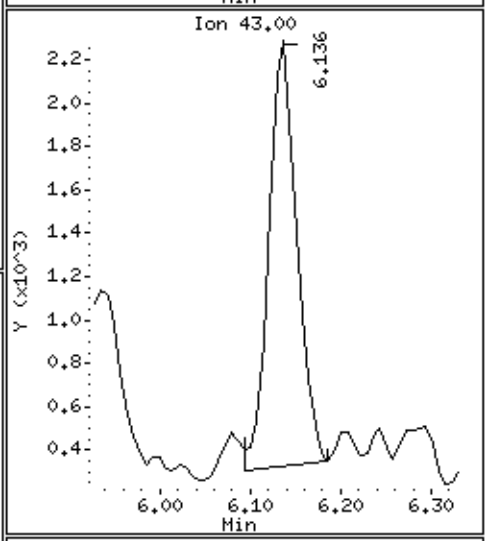


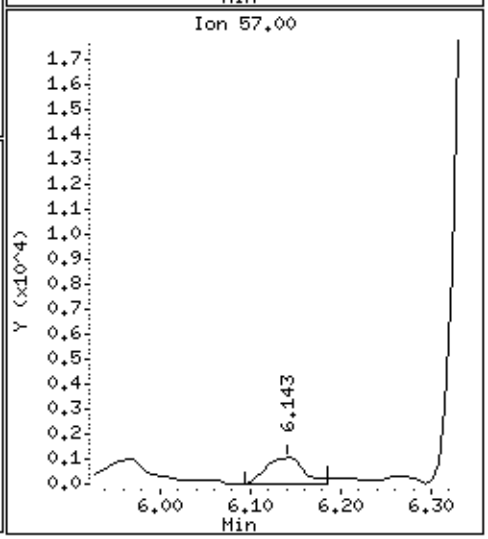












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

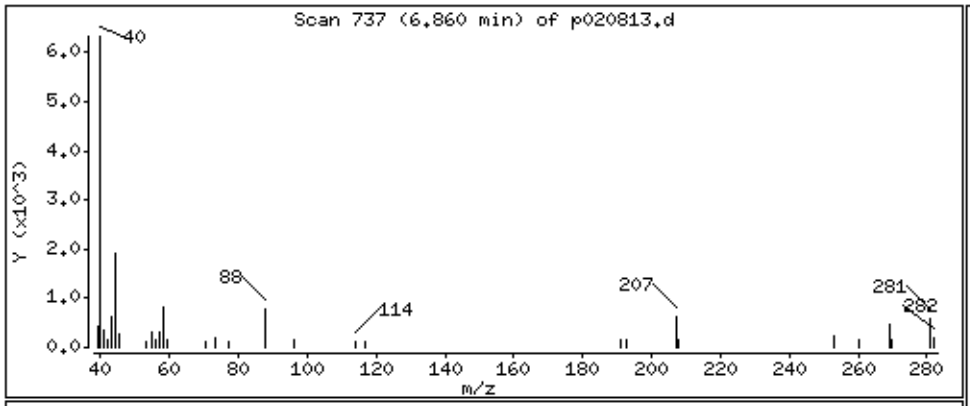
Operator: sab

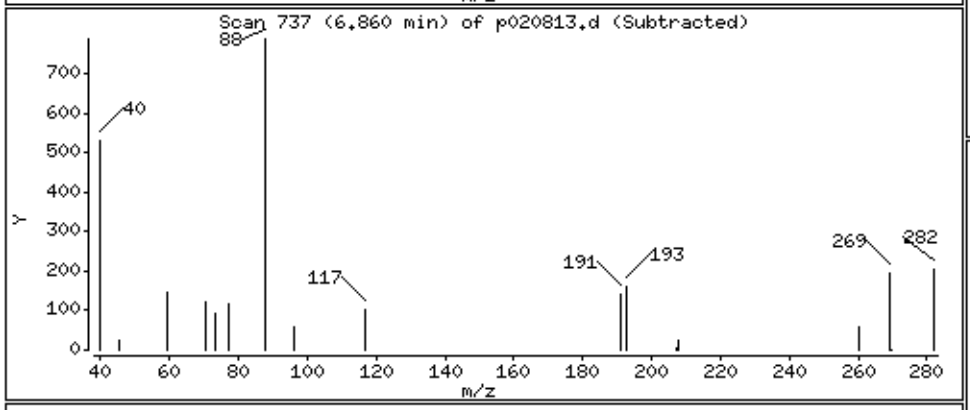
Column phase: RTX-624

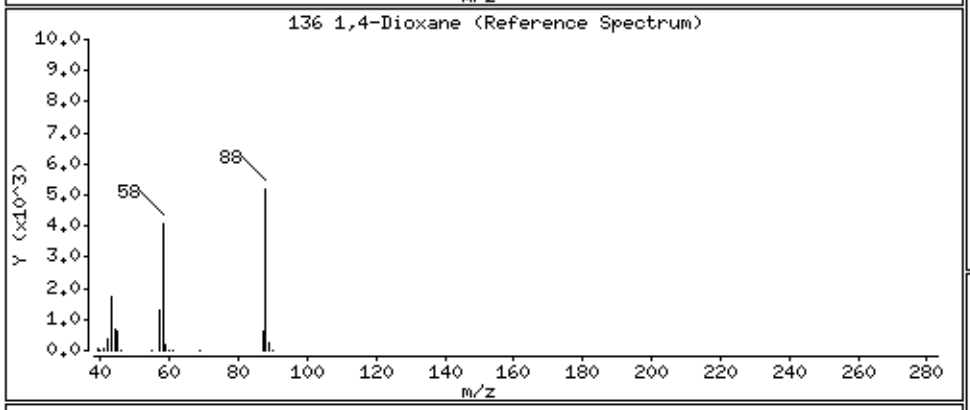
Column diameter: 0.25

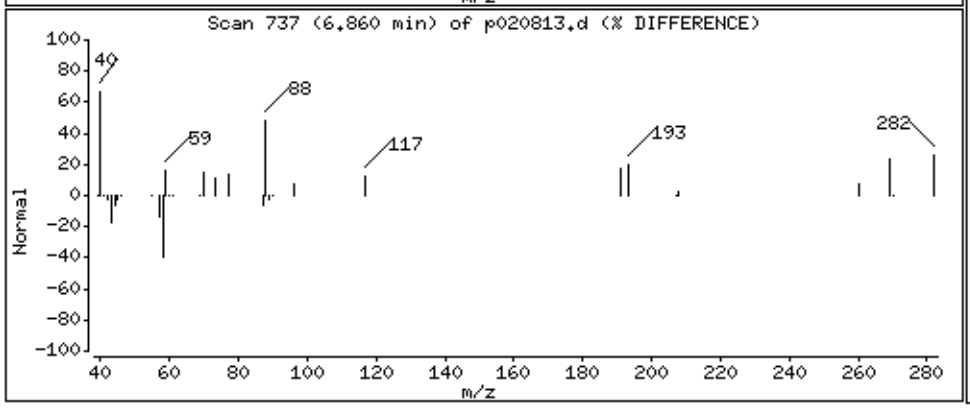
136 1,4-Dioxane

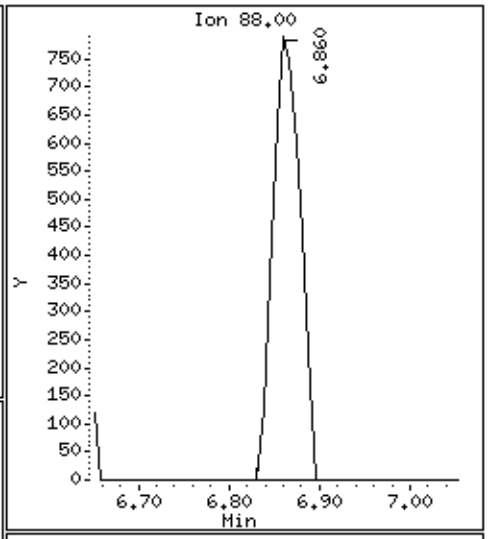
Concentration: 0.8419 PPBV

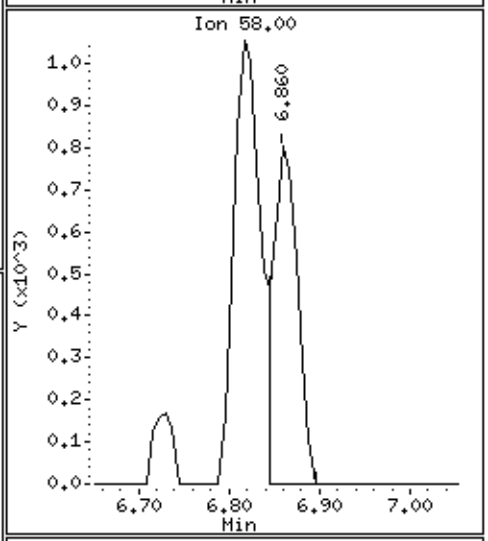


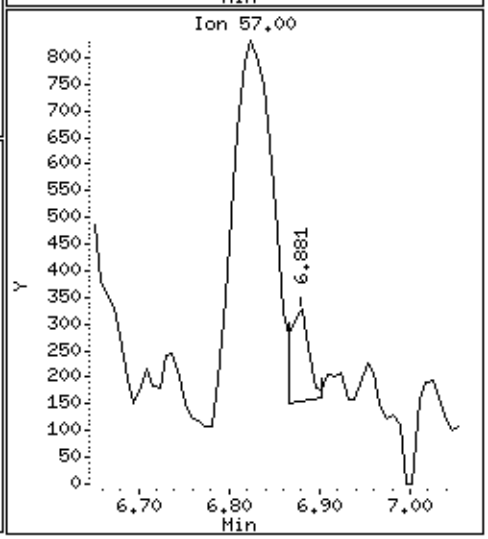












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

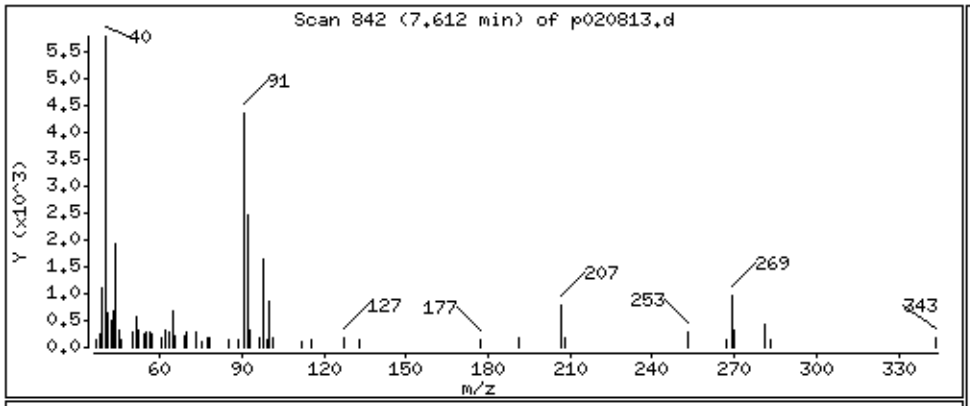
Operator: sab

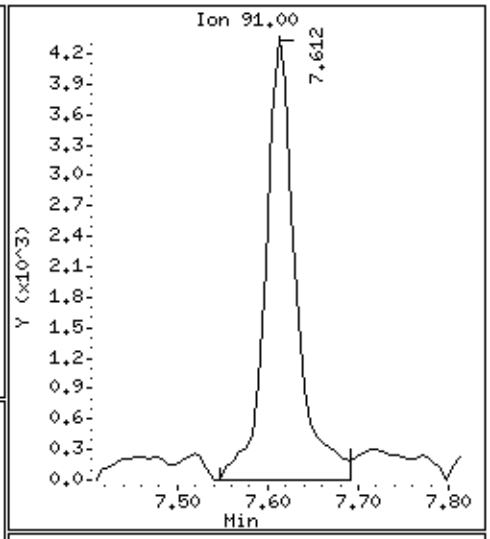
Column phase: RTX-624

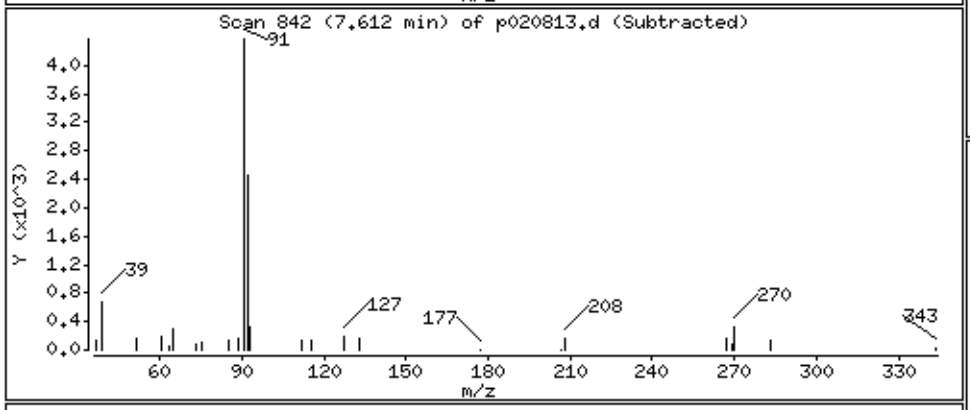
Column diameter: 0.25

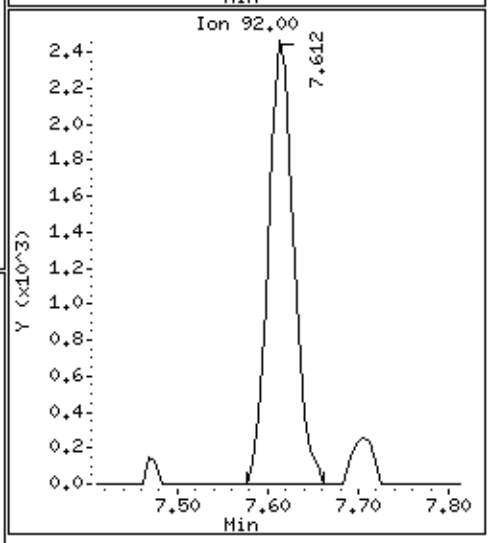
147 Toluene

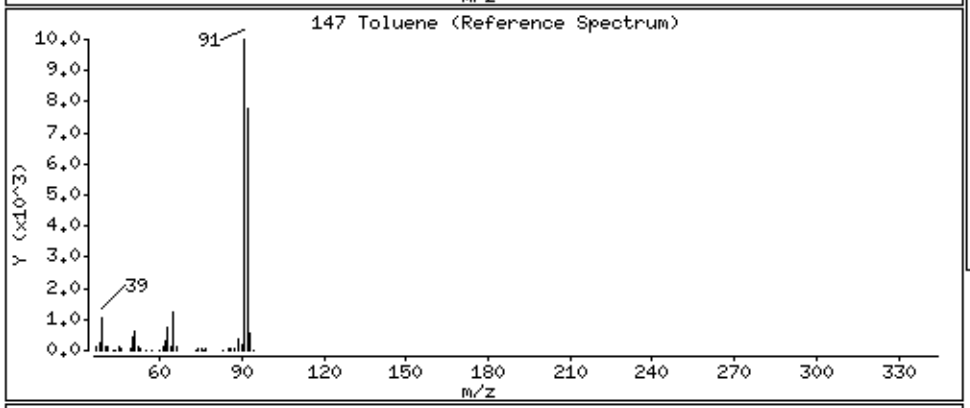
Concentration: 0.9043 PPBV

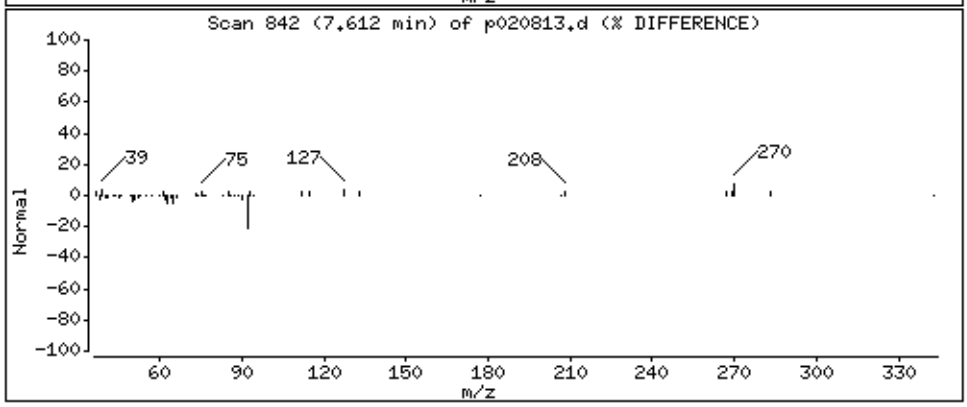












Data File: /chem/msdp.i/08feb16.b/p020813.d

Date : 08-FEB-2016 16:54

Client ID:

Instrument: msdp.i

Sample Info: 200ml 11446

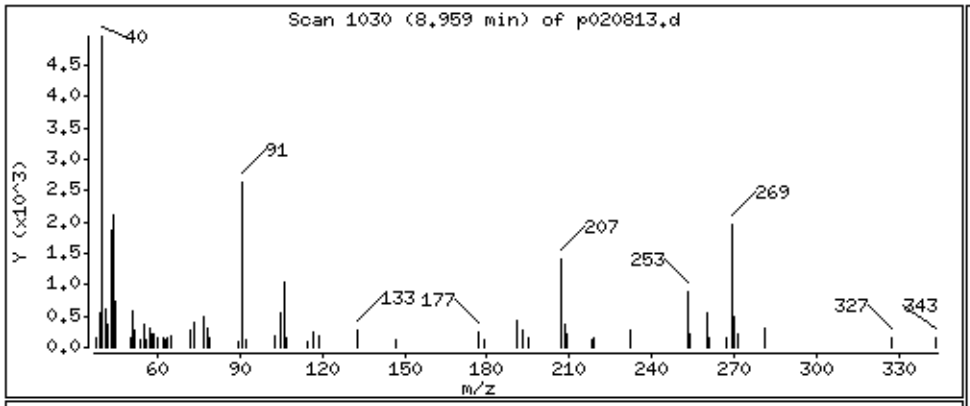
Operator: sab

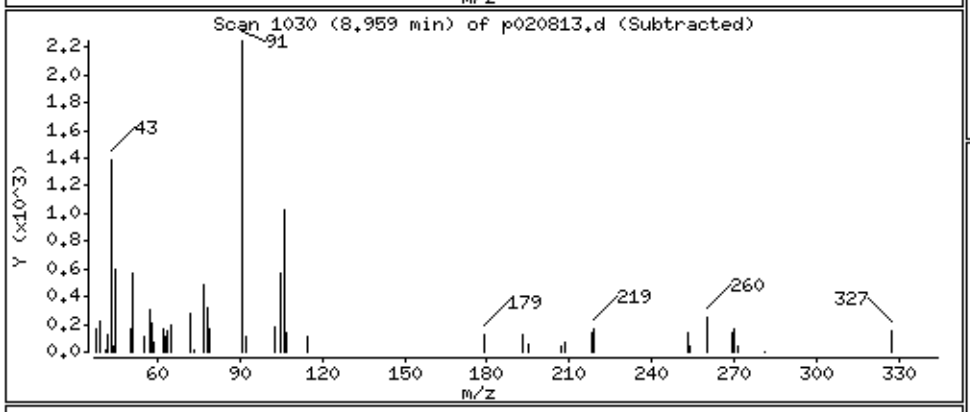
Column phase: RTX-624

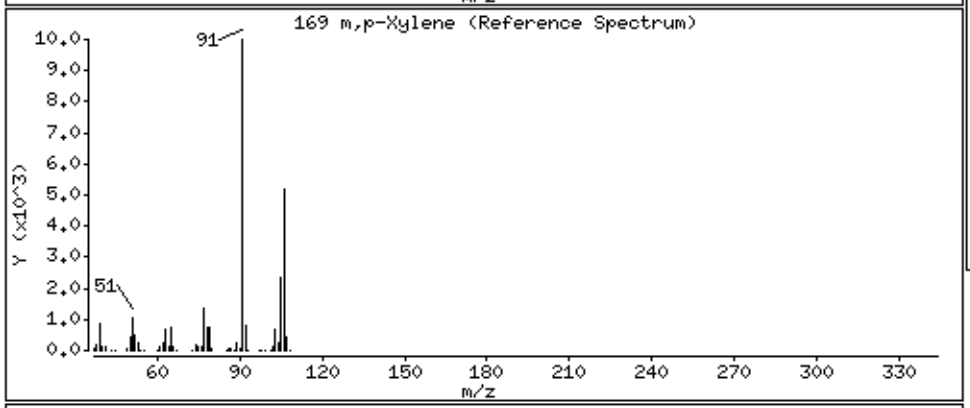
Column diameter: 0.25

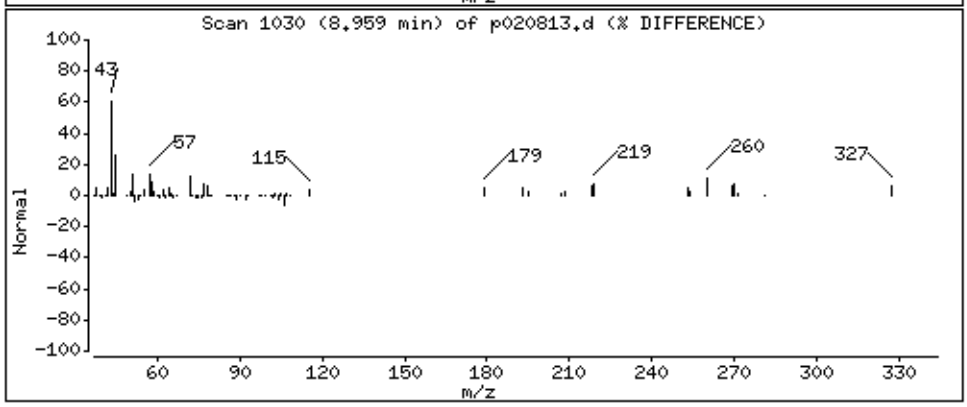
169 m,p-Xylene

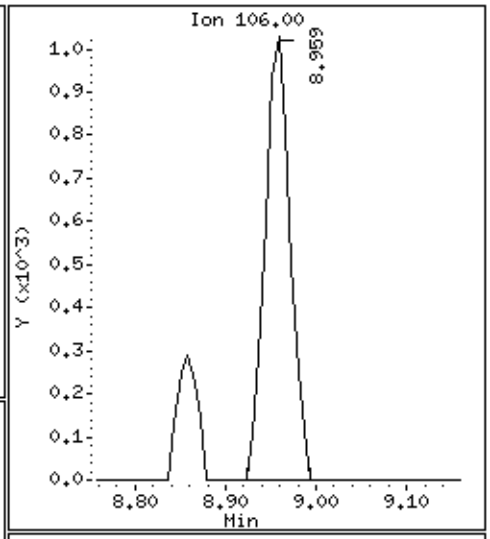
Concentration: 0.3270 PPBV

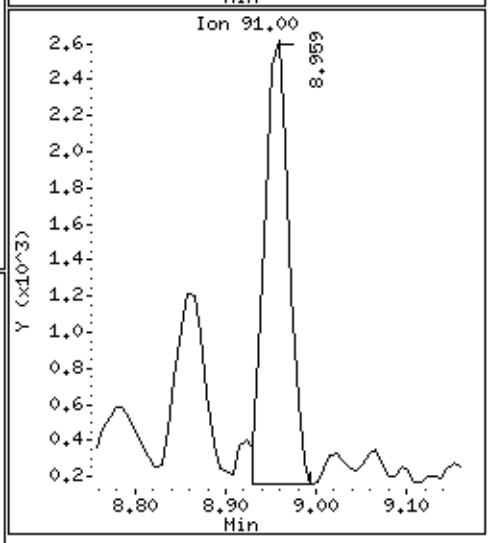












eurofins | Air Toxics

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

Client Sample ID: B42-1SSV013116

Lab ID#: 1602064B-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	19	680	36	1300
Acetone	47	35 J	110	84 J
2-Propanol	19	960	46	2400
2-Butanone (Methyl Ethyl Ketone)	19	11 J	56	33 J
2,2,4-Trimethylpentane	4.7	1.1 J	22	5.1 J
Benzene	4.7	1.9 J	15	6.0 J
Toluene	4.7	3.4 J	18	13 J
Ethyl Benzene	4.7	2.6 J	20	11 J
m,p-Xylene	4.7	5.1	20	22
o-Xylene	4.7	2.8 J	20	12 J
Styrene	4.7	0.90 J	20	3.8 J
Propylbenzene	4.7	0.70 J	23	3.4 J
4-Ethyltoluene	4.7	1.3 J	23	6.5 J
1,3-Dichlorobenzene	4.7	7.7	28	46

eurofins | Air Toxics

Client Sample ID: B42-1SSV013116

Lab ID#: 1602064B-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020812**	**Date of Collection:**	**1/31/16 4:40:00 PM**
Dil. Factor:	**9.48**	**Date of Analysis:**	**2/8/16 04:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.7	Not Detected	23	Not Detected
Freon 114	4.7	Not Detected	33	Not Detected
Chloromethane	47	Not Detected	98	Not Detected
Vinyl Chloride	4.7	Not Detected	12	Not Detected
1,3-Butadiene	4.7	Not Detected	10	Not Detected
Bromomethane	47	Not Detected	180	Not Detected
Chloroethane	19	Not Detected	50	Not Detected
Freon 11	4.7	Not Detected	27	Not Detected
Ethanol	19	680	36	1300
Freon 113	4.7	Not Detected	36	Not Detected
1,1-Dichloroethene	4.7	Not Detected	19	Not Detected
Acetone	47	35 J	110	84 J
2-Propanol	19	960	46	2400
Carbon Disulfide	19	Not Detected	59	Not Detected
3-Chloropropene	19	Not Detected	59	Not Detected
Methylene Chloride	47	Not Detected	160	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	4.7	Not Detected	19	Not Detected
Hexane	4.7	Not Detected	17	Not Detected
1,1-Dichloroethane	4.7	Not Detected	19	Not Detected
2-Butanone (Methyl Ethyl Ketone)	19	11 J	56	33 J
cis-1,2-Dichloroethene	4.7	Not Detected	19	Not Detected
Tetrahydrofuran	4.7	Not Detected	14	Not Detected
Chloroform	4.7	Not Detected	23	Not Detected
1,1,1-Trichloroethane	4.7	Not Detected	26	Not Detected
Cyclohexane	4.7	Not Detected	16	Not Detected
Carbon Tetrachloride	4.7	Not Detected	30	Not Detected
2,2,4-Trimethylpentane	4.7	1.1 J	22	5.1 J
Benzene	4.7	1.9 J	15	6.0 J
1,2-Dichloroethane	4.7	Not Detected	19	Not Detected
Heptane	4.7	Not Detected	19	Not Detected
Trichloroethene	4.7	Not Detected	25	Not Detected
1,2-Dichloropropane	4.7	Not Detected	22	Not Detected
1,4-Dioxane	19	Not Detected	68	Not Detected
Bromodichloromethane	4.7	Not Detected	32	Not Detected
cis-1,3-Dichloropropene	4.7	Not Detected	22	Not Detected
4-Methyl-2-pentanone	4.7	Not Detected	19	Not Detected
Toluene	4.7	3.4 J	18	13 J
trans-1,3-Dichloropropene	4.7	Not Detected	22	Not Detected
1,1,2-Trichloroethane	4.7	Not Detected	26	Not Detected
Tetrachloroethene	4.7	Not Detected	32	Not Detected
2-Hexanone	19	Not Detected	78	Not Detected

eurofins | Air Toxics

Client Sample ID: B42-1SSV013116

Lab ID#: 1602064B-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020812**	**Date of Collection:**	**1/31/16 4:40:00 PM**
Dil. Factor:	**9.48**	**Date of Analysis:**	**2/8/16 04:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	4.7	Not Detected	40	Not Detected
1,2-Dibromoethane (EDB)	4.7	Not Detected	36	Not Detected
Chlorobenzene	4.7	Not Detected	22	Not Detected
Ethyl Benzene	4.7	2.6 J	20	11 J
m,p-Xylene	4.7	5.1	20	22
o-Xylene	4.7	2.8 J	20	12 J
Styrene	4.7	0.90 J	20	3.8 J
Bromoform	4.7	Not Detected	49	Not Detected
Cumene	4.7	Not Detected	23	Not Detected
1,1,2,2-Tetrachloroethane	4.7	Not Detected	32	Not Detected
Propylbenzene	4.7	0.70 J	23	3.4 J
4-Ethyltoluene	4.7	1.3 J	23	6.5 J
1,3,5-Trimethylbenzene	4.7	Not Detected	23	Not Detected
1,2,4-Trimethylbenzene	4.7	Not Detected	23	Not Detected
1,3-Dichlorobenzene	4.7	7.7	28	46
1,4-Dichlorobenzene	4.7	Not Detected	28	Not Detected
alpha-Chlorotoluene	4.7	Not Detected	24	Not Detected
1,2-Dichlorobenzene	4.7	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	19	Not Detected	140	Not Detected
Hexachlorobutadiene	19	Not Detected	200	Not Detected
Naphthalene	9.5	Not Detected	50	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	95	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020812.d
Lab Smp Id: 1602064B-16A
Inj Date : 08-FEB-2016 16:28
Operator : sab Inst ID: msdp.i
Smp Info : 50ml 34579
Misc Info : 4.5 Hg->14.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 13-Feb-2016 11:45 dbailey Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 6
Dil Factor: 9.48000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	9.48000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.449	5.449 (1.000)	130	143105	25.0000		80.00- 120.00	100.00
5.449	5.449 (1.000)	128	109604			49.06- 109.06	76.59
5.449	5.449 (1.000)	49	216252			124.20- 184.20	151.11
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	565209	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	82384			0.00- 44.57	14.58
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.779	8.779 (1.000)	117	539257	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	282646			20.36- 80.36	52.41
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.099)	65	203275	24.0704	24.070	80.00- 120.00	100.00
5.986	5.986 (1.099)	67	101701			26.68- 86.68	50.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.555	7.555 (1.191)	98	566695	25.0950	25.095	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	61786			0.00- 40.62	10.90
7.555	7.555 (1.191)	100	368275			36.74- 96.74	64.99
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.112)	174	411468	23.6591	23.659	80.00- 120.00	100.00
9.761	9.761 (1.112)	95	404553			65.95- 125.95	98.32
9.761	9.761 (1.112)	176	400260			65.80- 125.80	97.28
42 Ethanol					CAS #: 64-17-5		
2.884	2.877 (0.529)	45	196635	72.2322	684.76	80.00- 120.00	100.00
2.884	2.877 (0.529)	43	40648			0.00- 50.77	20.67
2.884	2.877 (0.529)	46	76362			8.68- 68.68	38.83
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	14127	3.74454	35.498	80.00- 120.00	100.00(a)
3.386	3.386 (0.621)	43	51055			323.05- 383.05	361.40
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.652)	45	1629735	101.252	959.86	80.00- 120.00	100.00
3.550	3.550 (0.652)	43	316941			0.00- 49.72	19.45
3.550	3.550 (0.652)	59	57753			0.00- 33.36	3.54
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.963)	72	3680	1.18891	11.271	80.00- 120.00	100.00(a)
5.248	5.248 (0.963)	43	27578			452.15- 512.15	749.29
5.248	5.248 (0.963)	57	2287			9.54- 69.54	62.16
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.095)	57	4509	0.11475	1.088	80.00- 120.00	100.00(a)
5.957	5.964 (1.093)	56	1705			1.10- 61.10	37.83
5.964	5.964 (1.095)	41	2616			0.00- 57.08	58.01
116 Benzene					CAS #: 71-43-2		
5.979	5.972 (0.942)	78	3407	0.19778	1.875	80.00- 120.00	100.00(a)
5.972	5.972 (0.941)	77	391			0.00- 53.91	11.48
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	8643	0.35887	3.402	80.00- 120.00	100.00(a)
7.612	7.612 (1.200)	92	4564			27.38- 87.38	52.81
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	2911	0.27279	2.586	80.00- 120.00	100.00(a)
8.858	8.858 (1.009)	91	9330			276.53- 336.53	320.43

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
169 m,p-Xylene						CAS #: 108-38-3		
8.959	8.959	(1.020)	106	6970	0.53702	5.091	80.00- 120.00	100.00
8.959	8.959	(1.020)	91	15926			166.59- 226.59	228.48
171 o-Xylene						CAS #: 95-47-6		
9.295	9.295	(1.059)	106	3646	0.29263	2.774	80.00- 120.00	100.00(a)
9.295	9.295	(1.059)	91	7156			176.08- 236.08	196.28
172 Styrene						CAS #: 100-42-5		
9.310	9.317	(1.060)	104	1782	0.09547	0.9051	80.00- 120.00	100.00(a)
9.295	9.317	(1.059)	78	1300			17.58- 77.58	72.96
182 Propylbenzene						CAS #: 103-65-1		
9.926	9.926	(1.131)	91	3412	0.07351	0.6968	80.00- 120.00	100.00(a)
9.926	9.926	(1.131)	120	1079			0.00- 54.34	31.63
9.926	9.926	(1.131)	105	262			0.00- 33.54	7.68
188 4-Ethyltoluene						CAS #: 622-96-8		
9.997	10.019	(1.139)	120	1770	0.13886	1.316	80.00- 120.00	100.00(a)
9.997	10.019	(1.139)	105	6327			279.66- 339.66	357.34
208 1,3-Dichlorobenzene						CAS #: 541-73-1		
10.671	10.671	(1.215)	146	20503	0.80865	7.666	80.00- 120.00	100.00
10.671	10.671	(1.215)	148	12462			34.23- 94.23	60.78
10.663	10.671	(1.215)	111	7105			7.40- 67.40	34.66

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: p020812.d
Lab Smp Id: 1602064B-16A
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 4.5 Hg->14.9 psi

Calibration Date: 08-FEB-2016
Calibration Time: 10:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	143105	-6.16
123 1,4-Difluorobenze	608067	364840	851294	565209	-7.05
163 Chlorobenzene-d5	577195	346317	808073	539257	-6.57

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.

Report Date: 15-Feb-2016 13:54

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1602064B-16A
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 4.5 Hg->14.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.070	96.28	70-130
$ 146 Toluene-d8	25.000	25.095	100.38	70-130
$ 177 4-Bromofluorobenze	25.000	23.659	94.64	70-130

Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

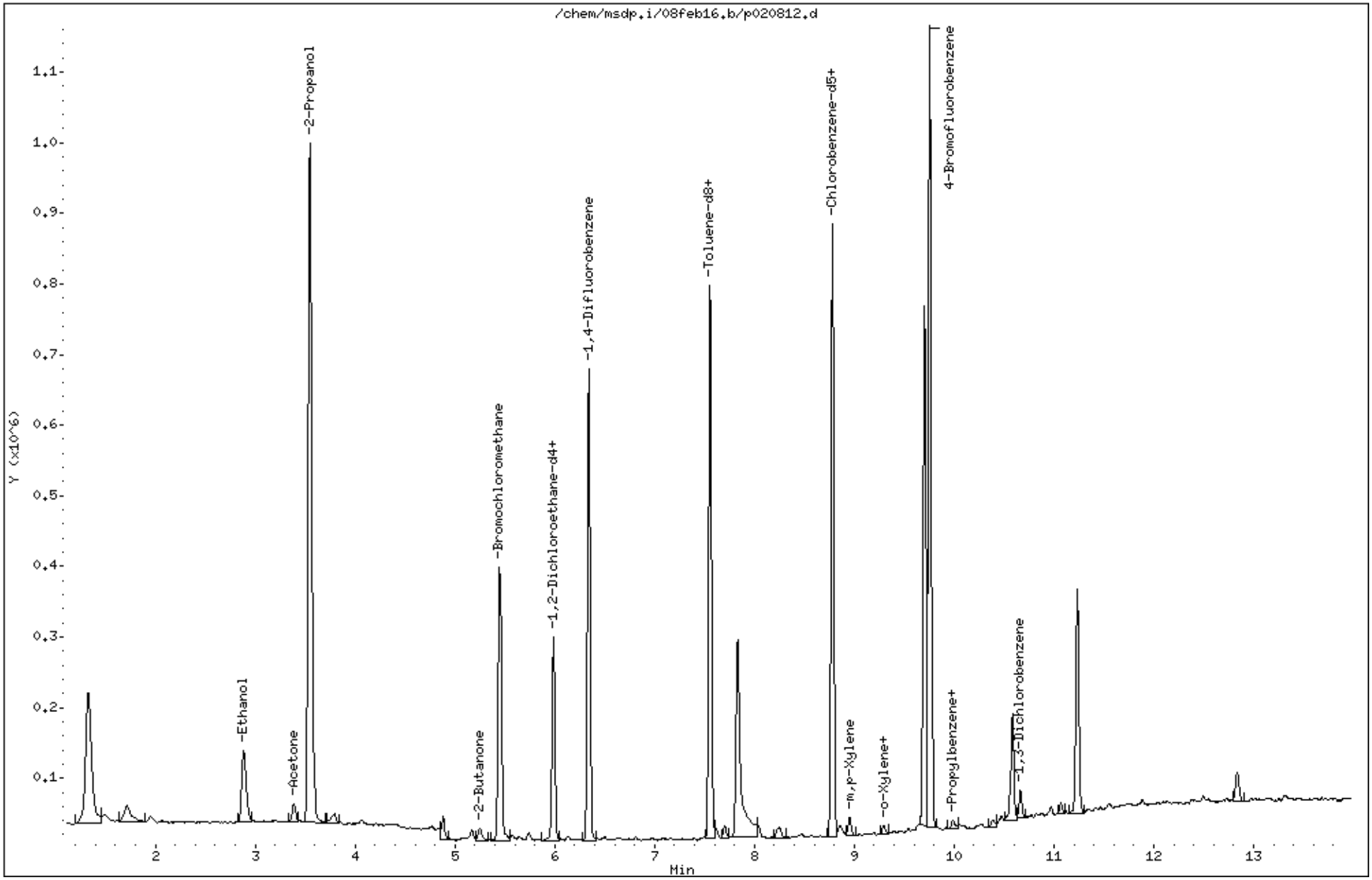
Sample Info: 50ml 34579

Column phase: RTX-624

Instrument: msdp.i

Operator: sab

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

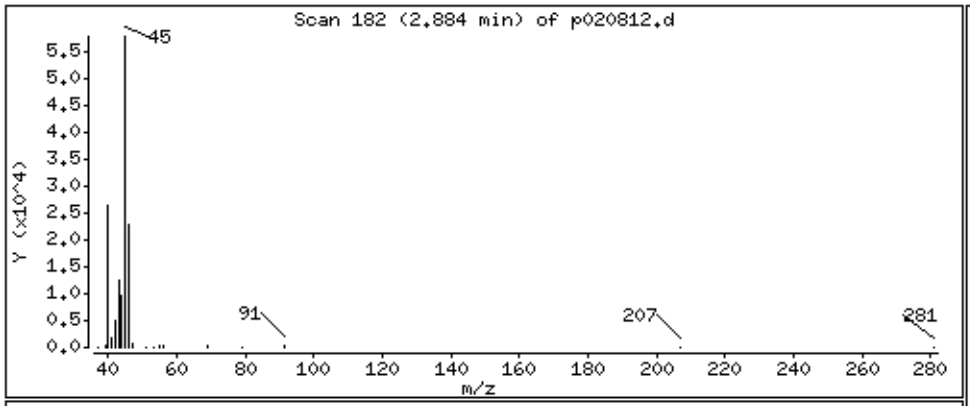
Operator: sab

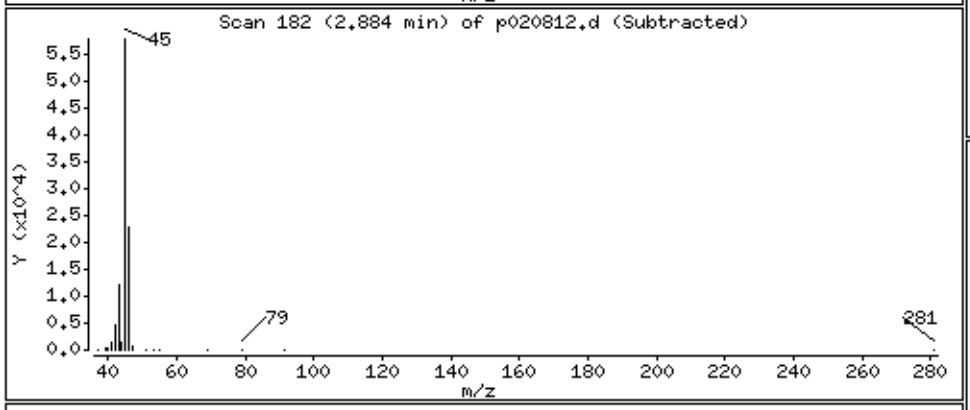
Column phase: RTX-624

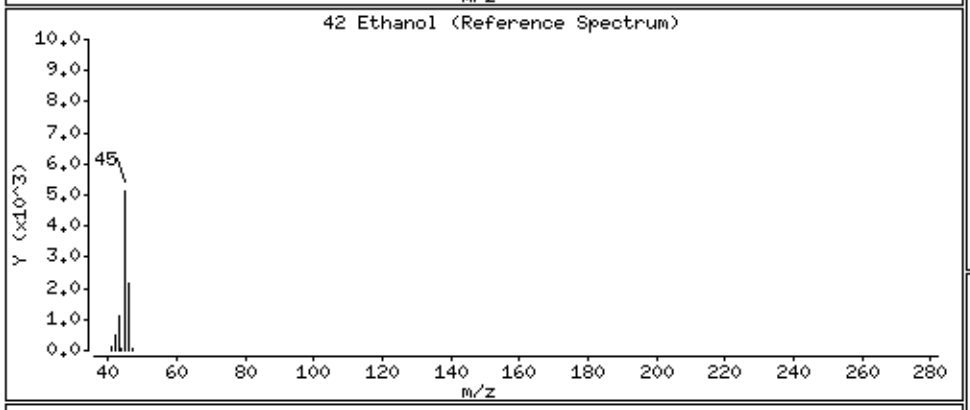
Column diameter: 0.25

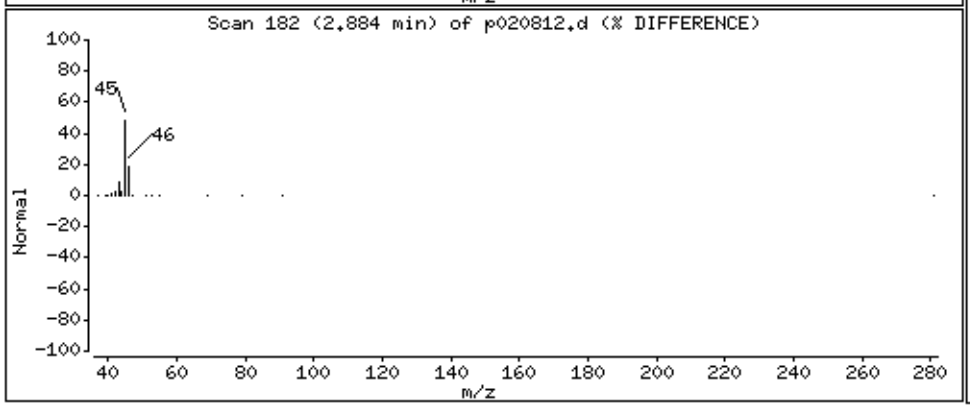
42 Ethanol

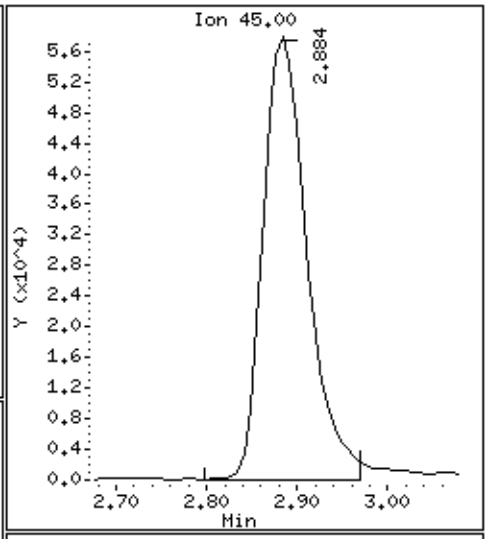
Concentration: 684.76 PPBV

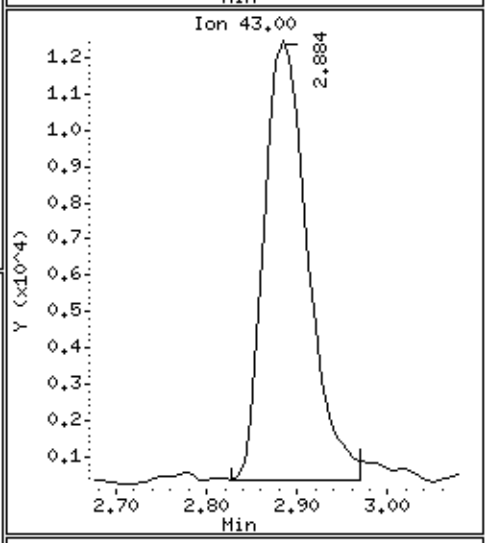


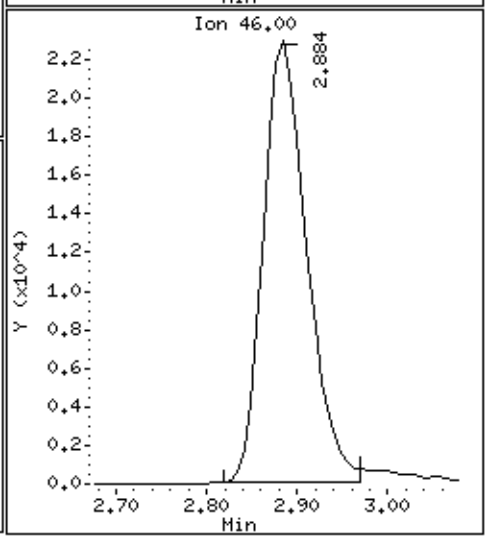












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

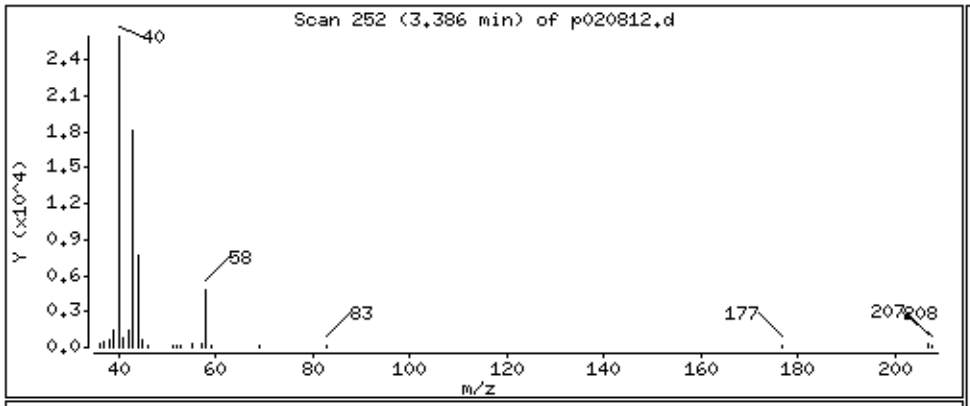
Operator: sab

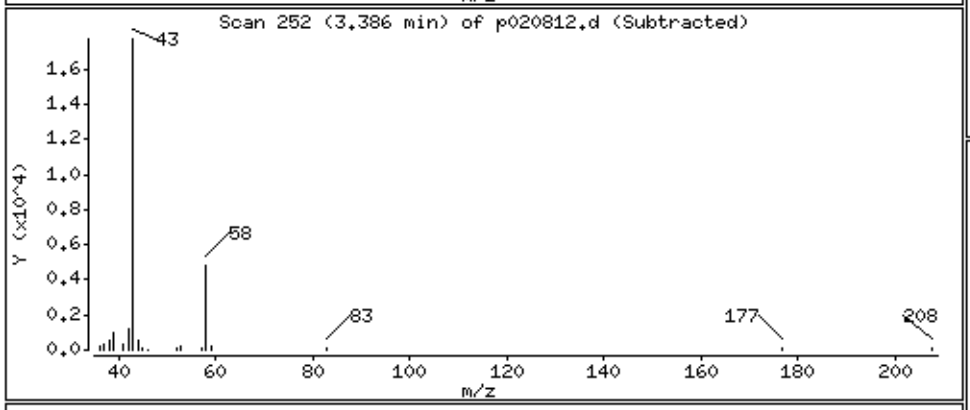
Column phase: RTX-624

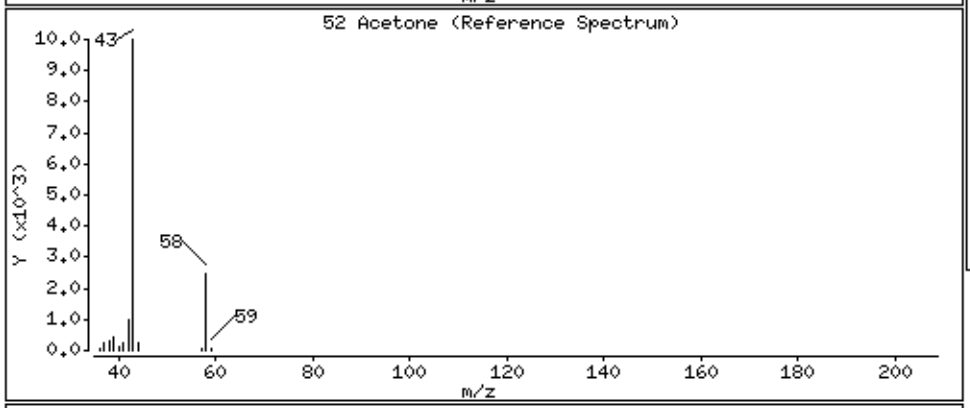
Column diameter: 0.25

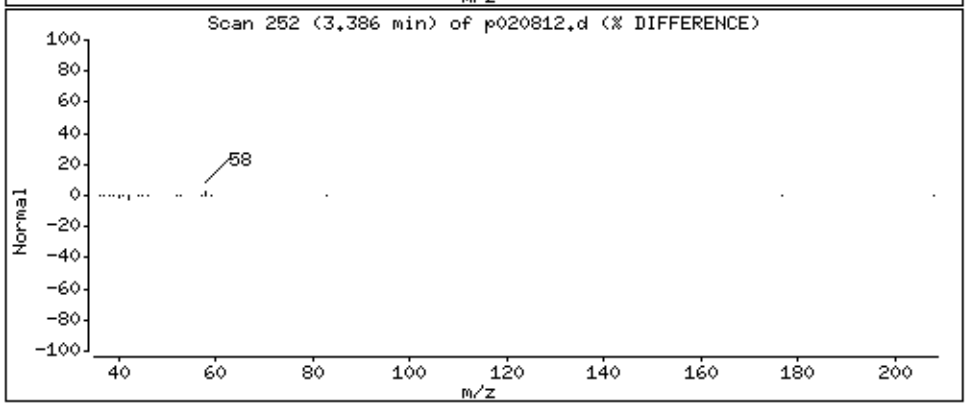
52 Acetone

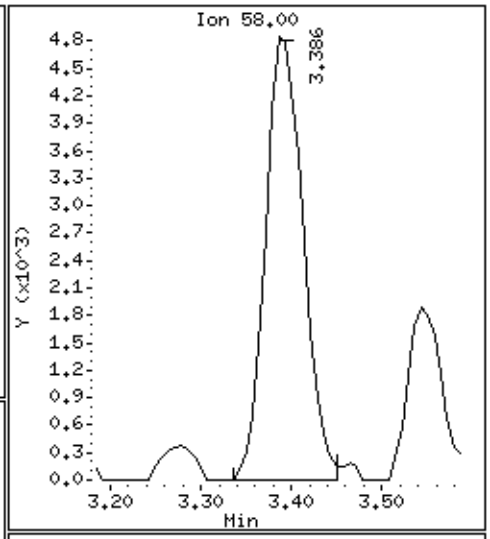
Concentration: 35.498 PPBV

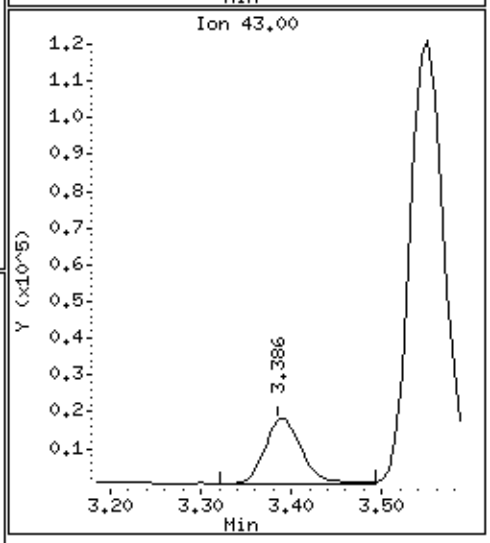












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

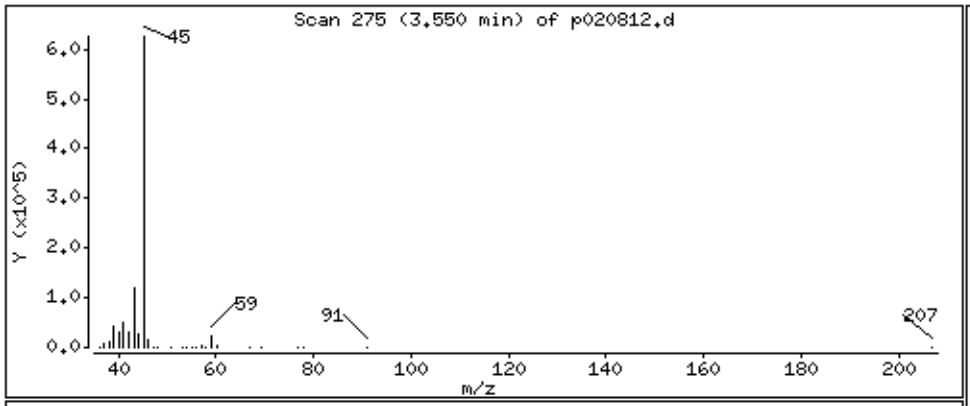
Operator: sab

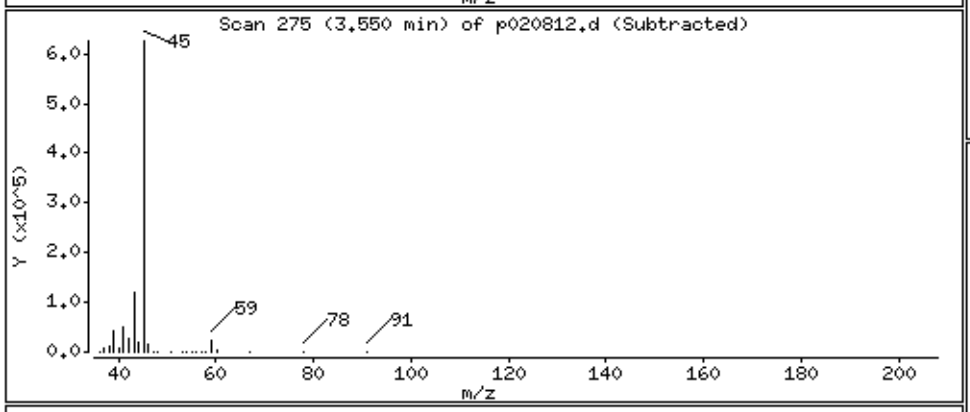
Column phase: RTX-624

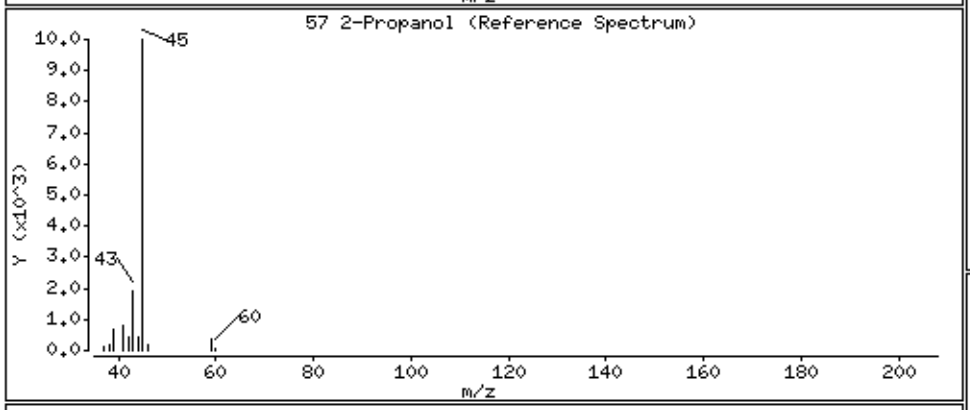
Column diameter: 0.25

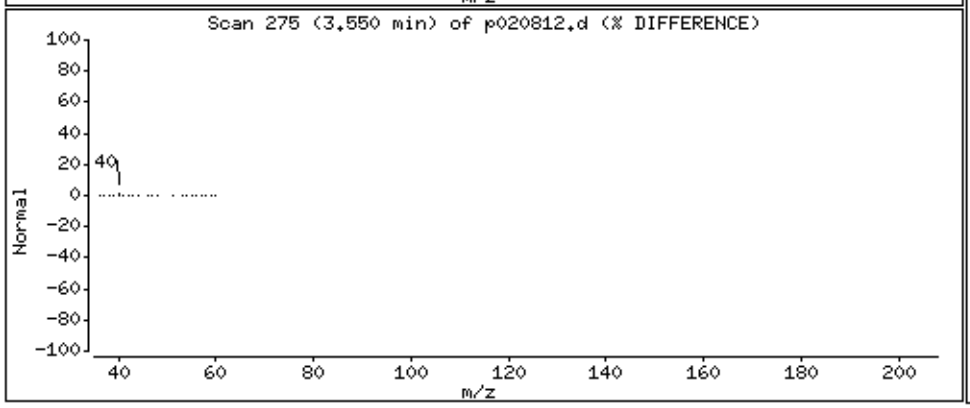
57 2-Propanol

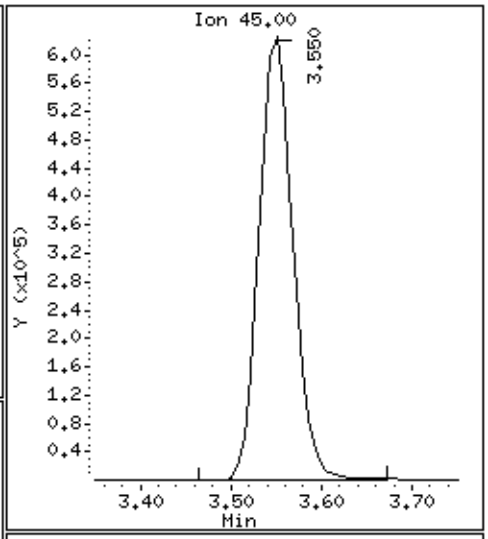
Concentration: 959.86 PPBV

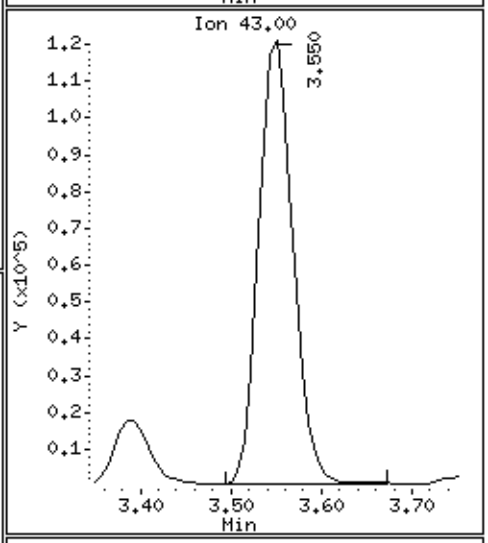


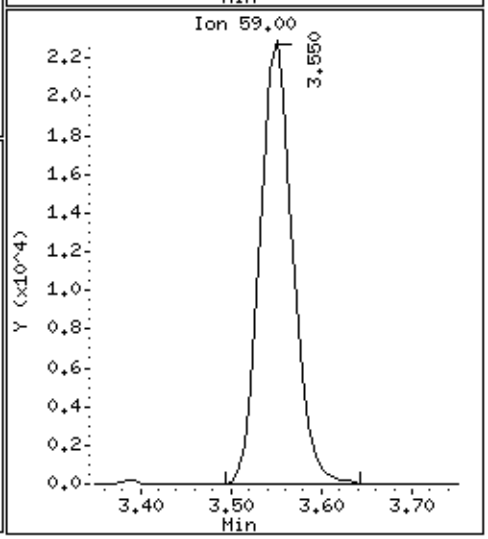












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

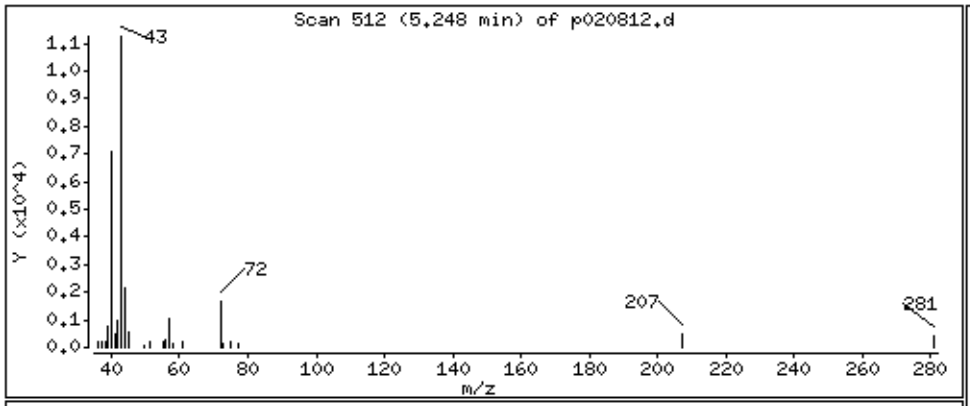
Operator: sab

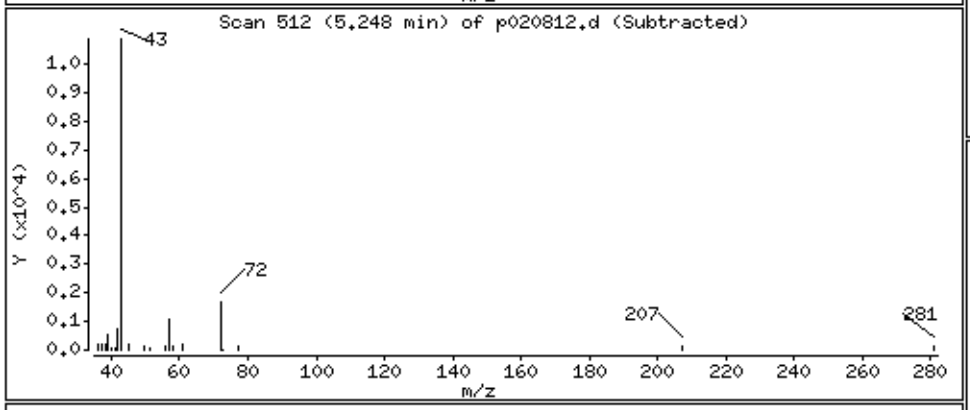
Column phase: RTX-624

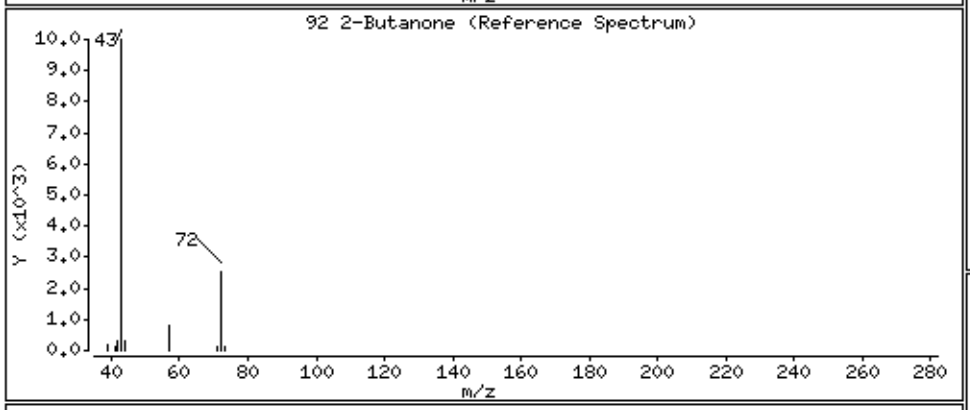
Column diameter: 0.25

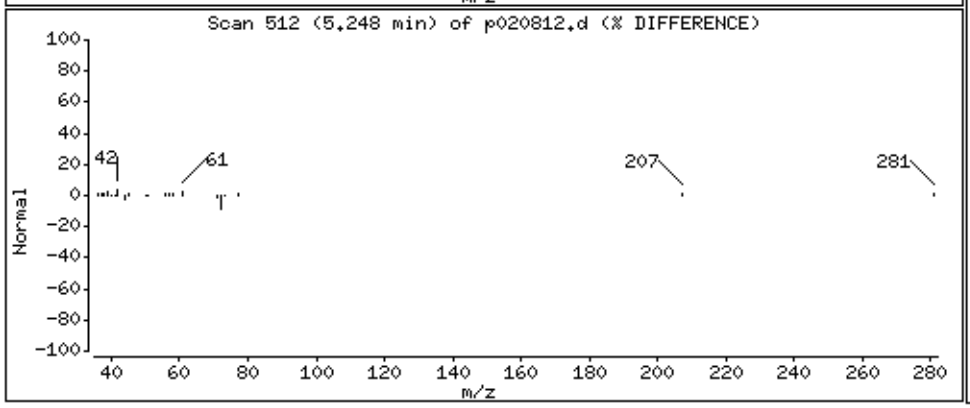
92 2-Butanone

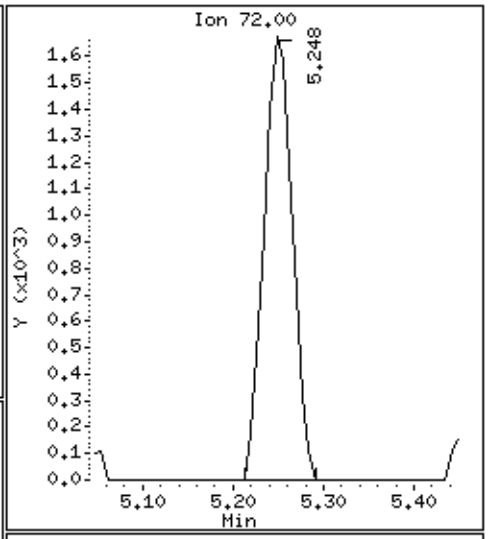
Concentration: 11.271 PPBV

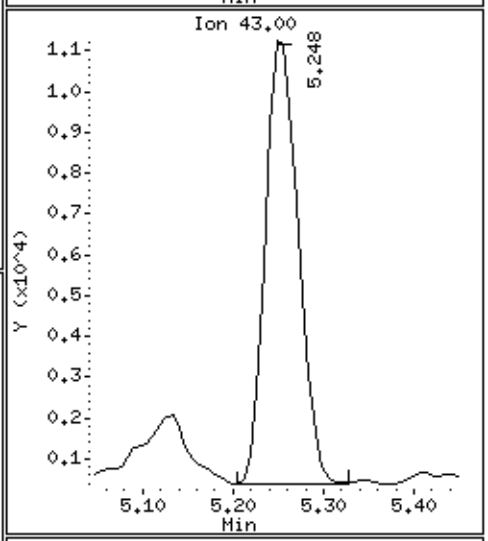


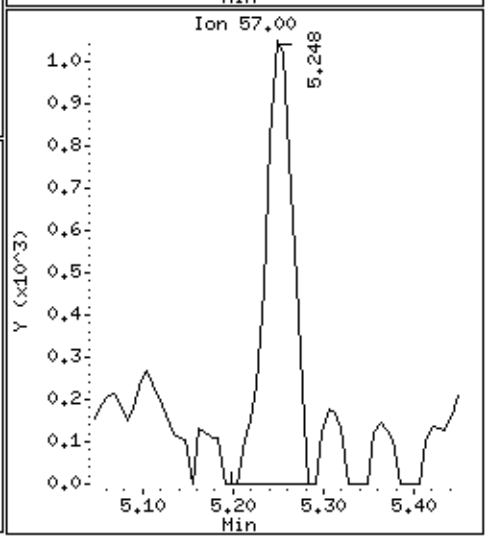












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

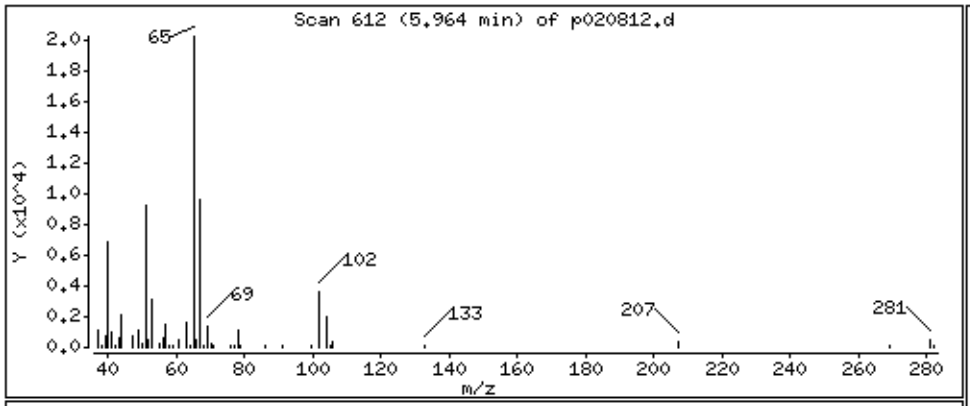
Operator: sab

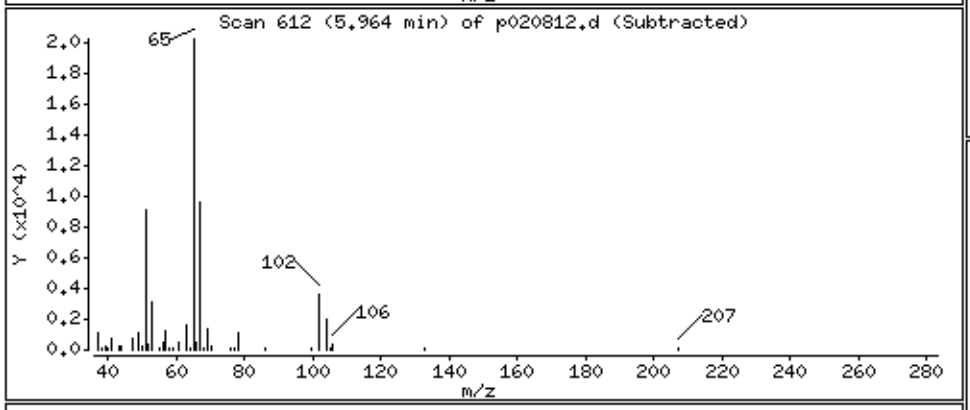
Column phase: RTX-624

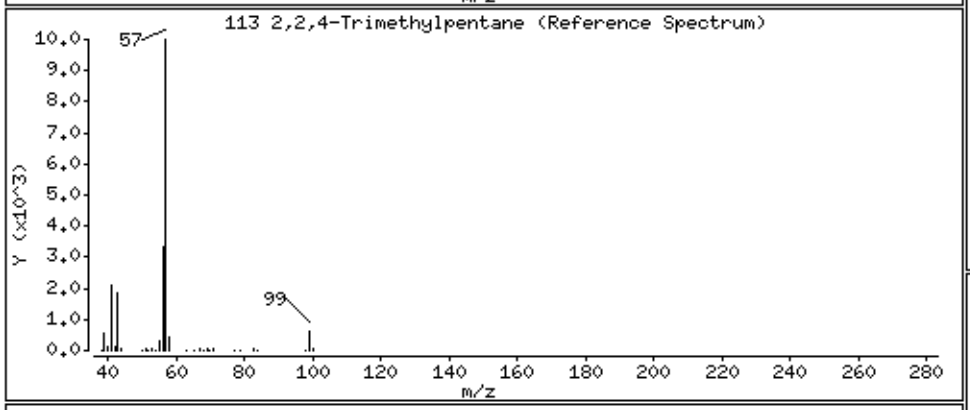
Column diameter: 0.25

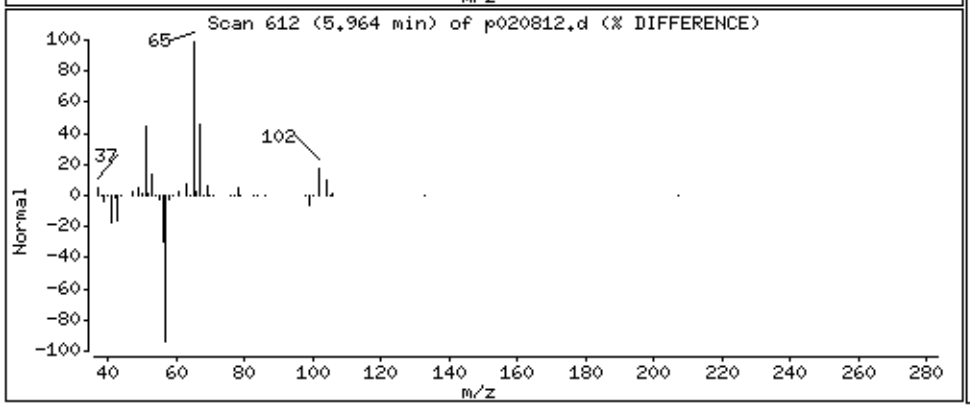
113 2,2,4-Trimethylpentane

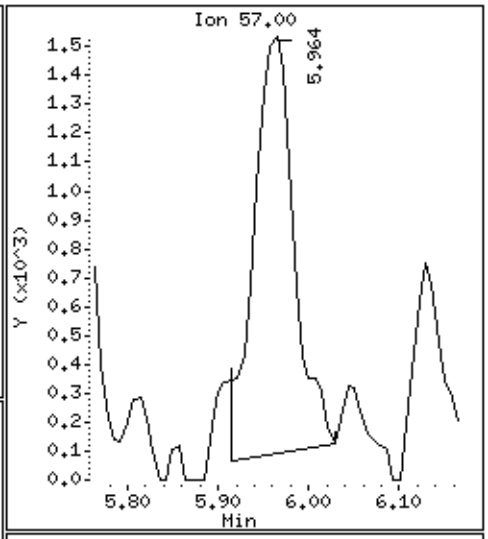
Concentration: 1.088 PPBV

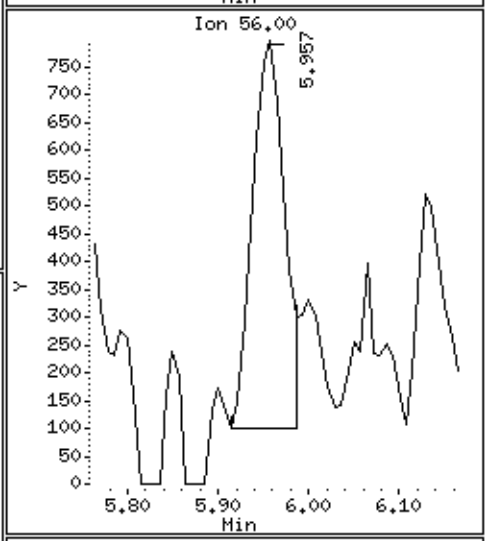


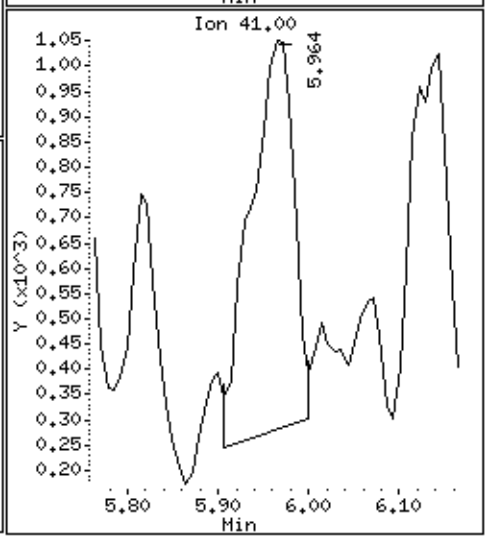












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

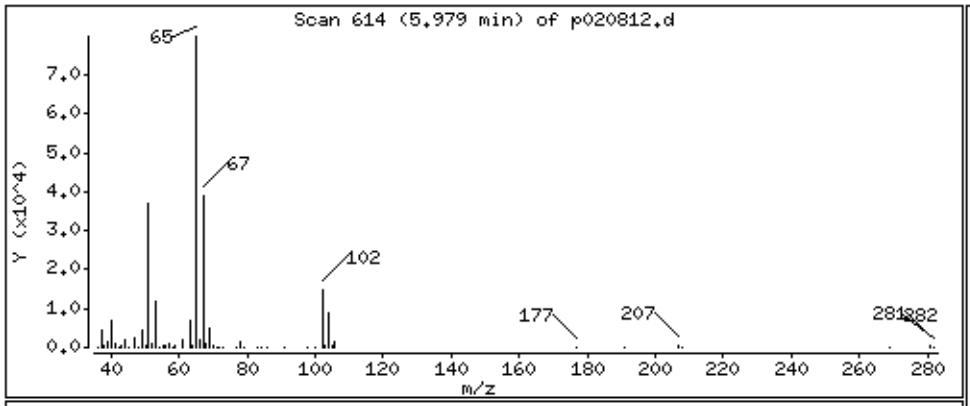
Operator: sab

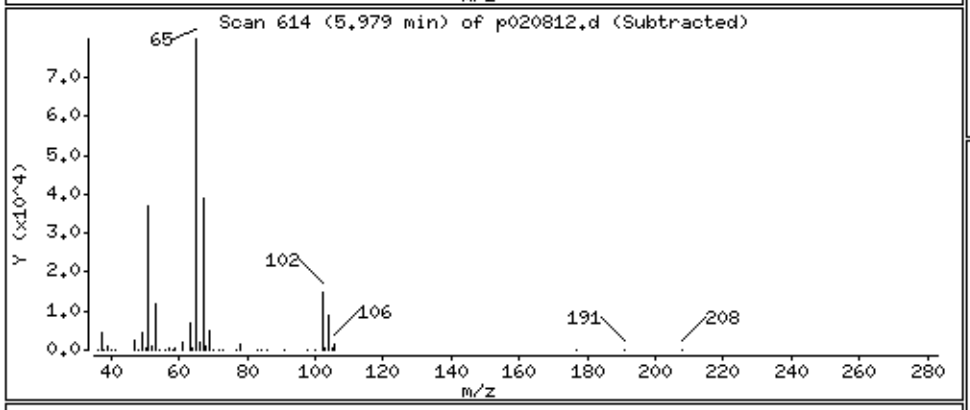
Column phase: RTX-624

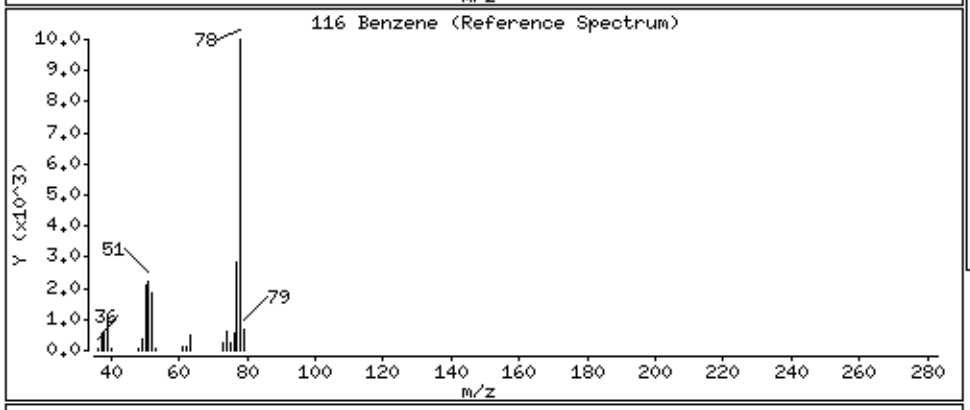
Column diameter: 0.25

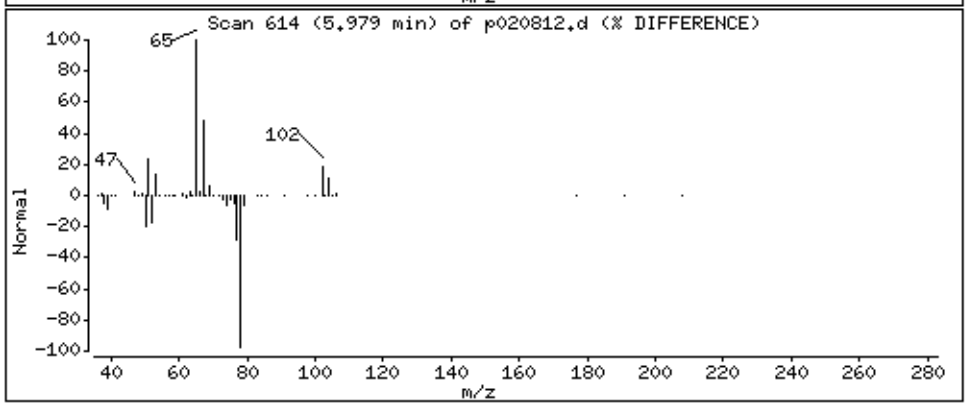
116 Benzene

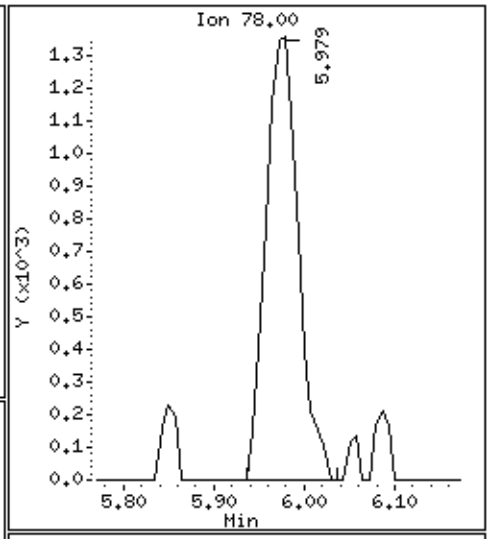
Concentration: 1.875 PPBV

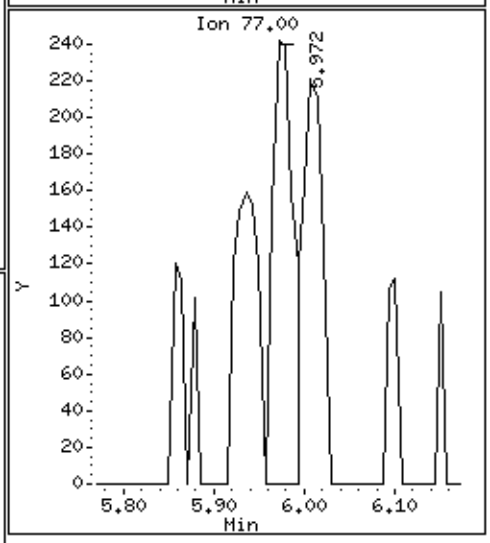












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

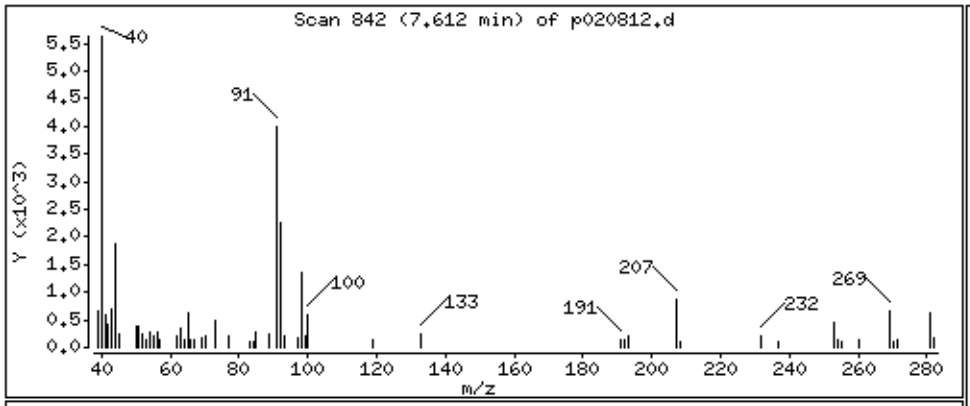
Operator: sab

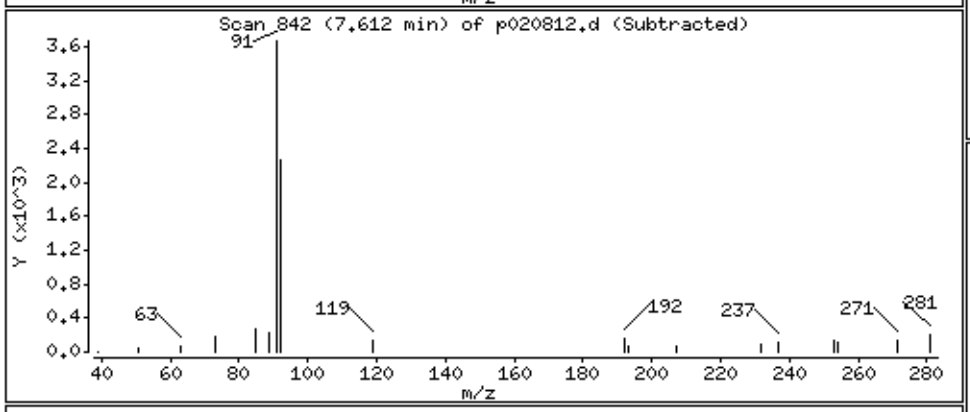
Column phase: RTX-624

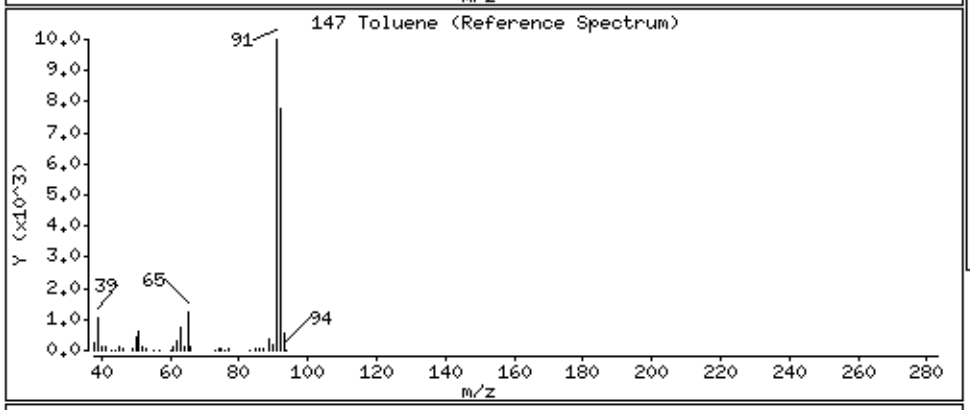
Column diameter: 0.25

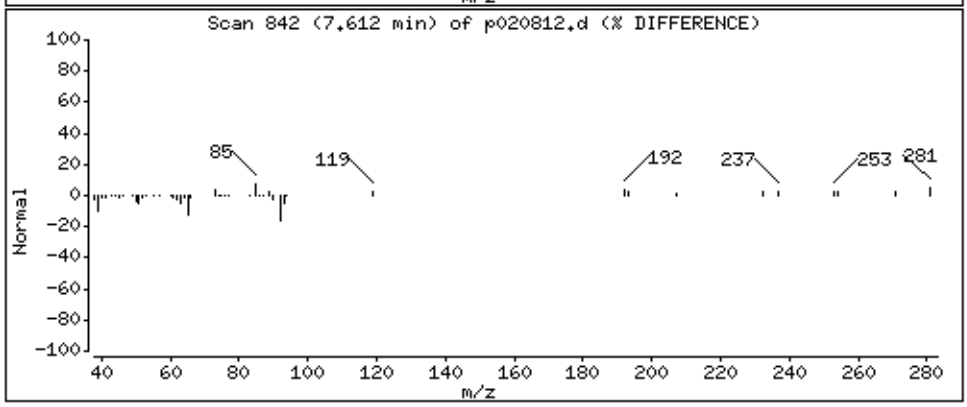
147 Toluene

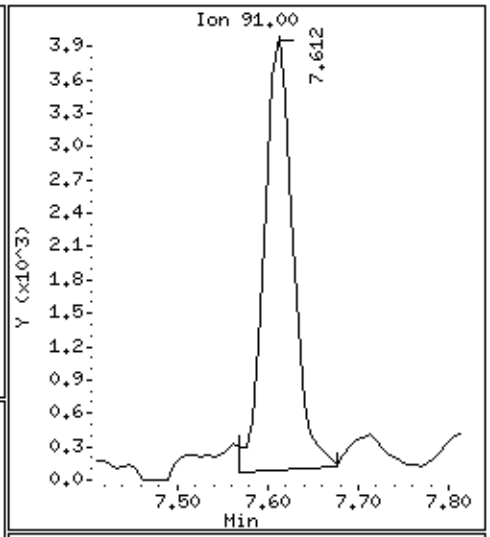
Concentration: 3.402 PPBV

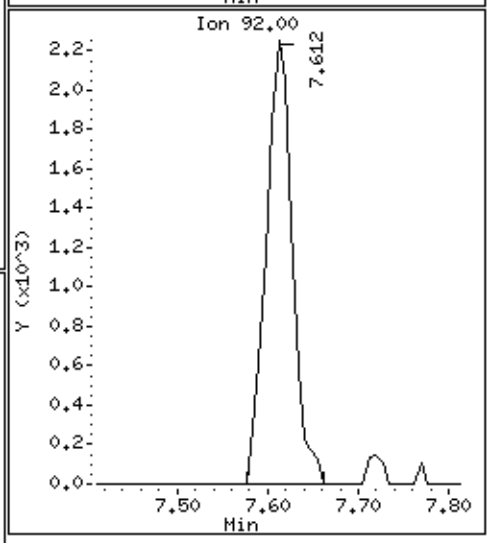












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

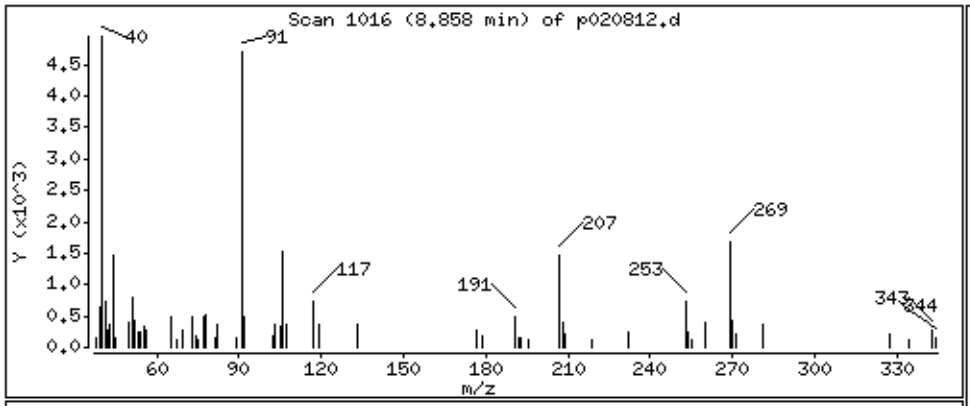
Operator: sab

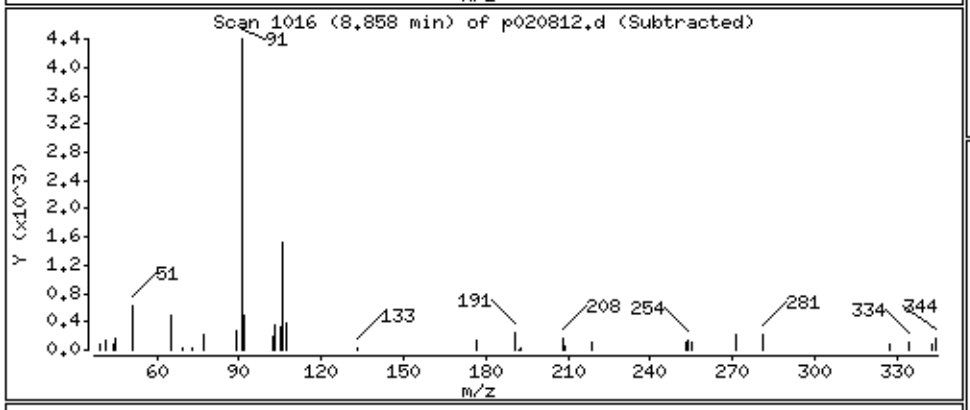
Column phase: RTX-624

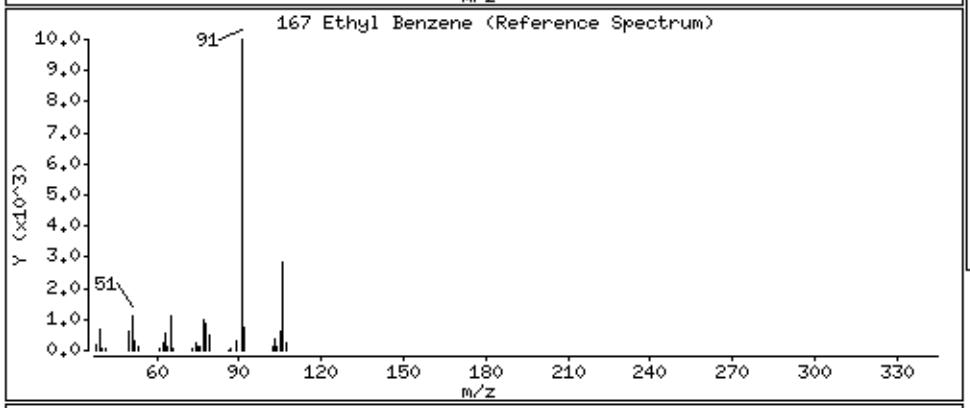
Column diameter: 0.25

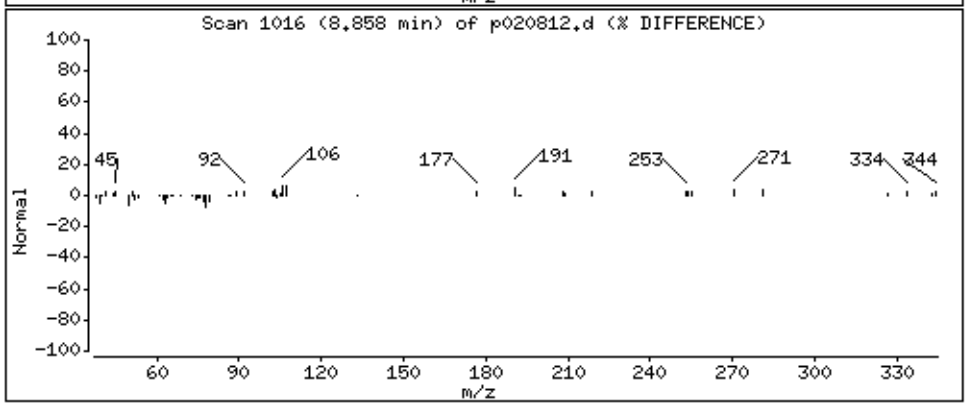
167 Ethyl Benzene

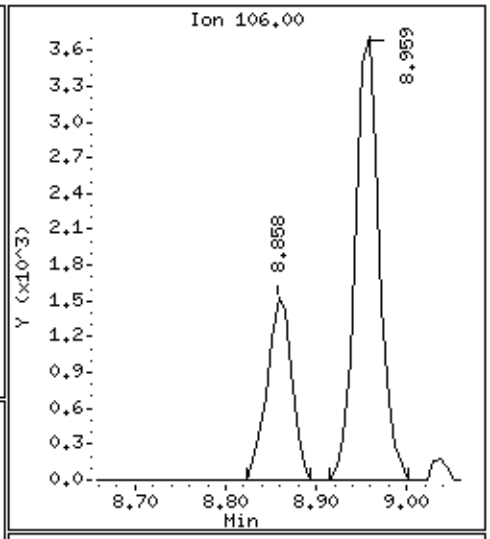
Concentration: 2.586 PPBV

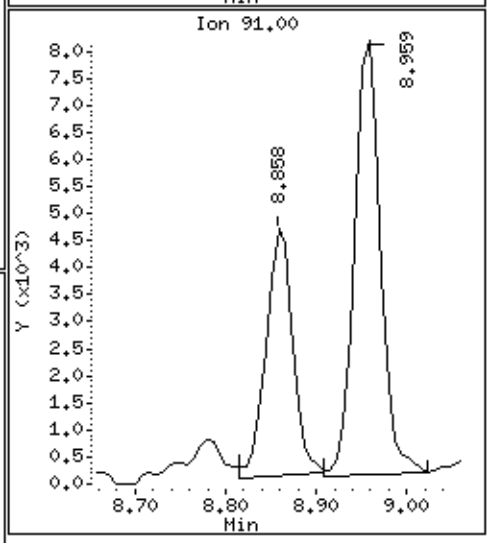












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

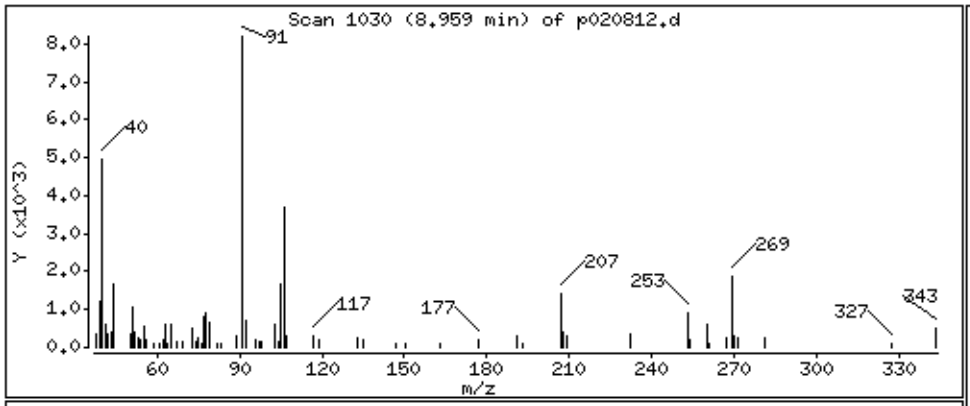
Operator: sab

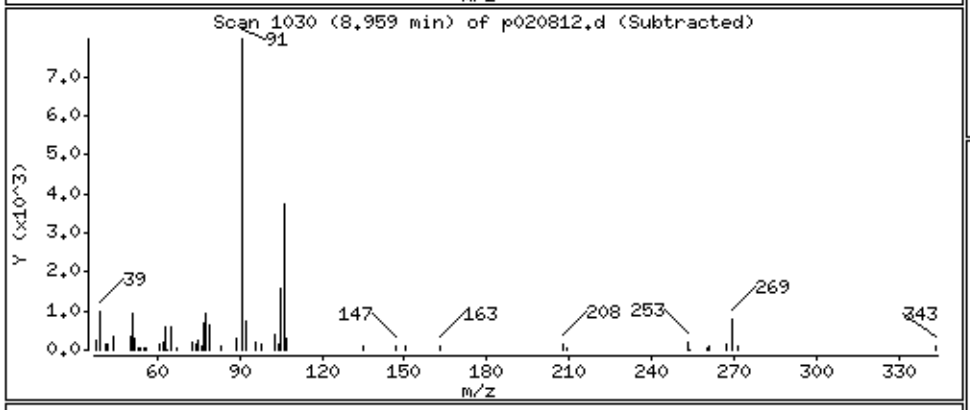
Column phase: RTX-624

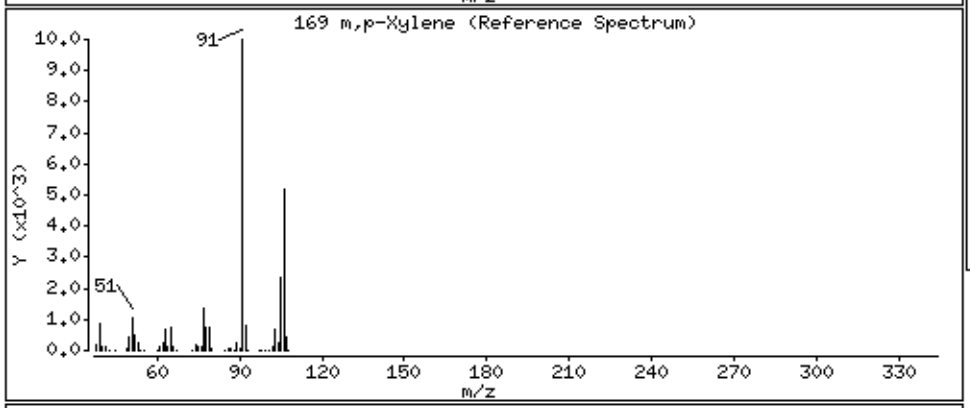
Column diameter: 0.25

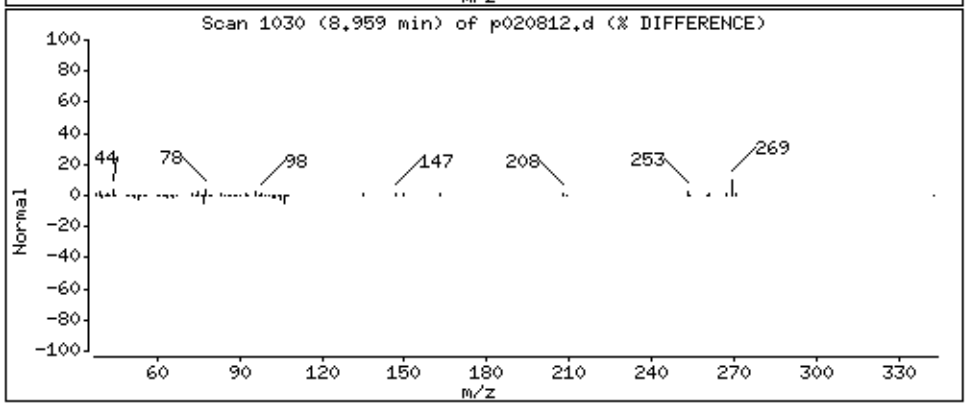
169 m,p-Xylene

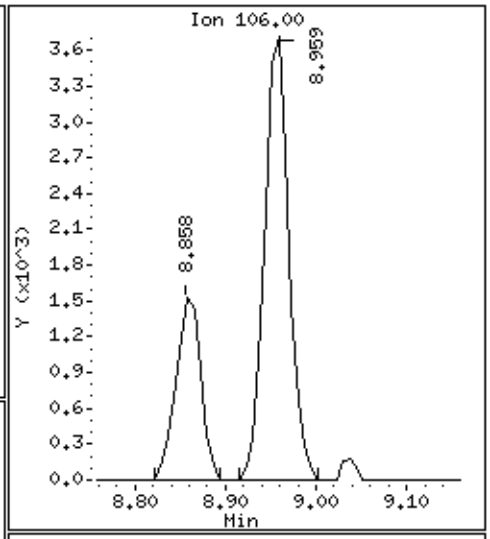
Concentration: 5.091 PPBV

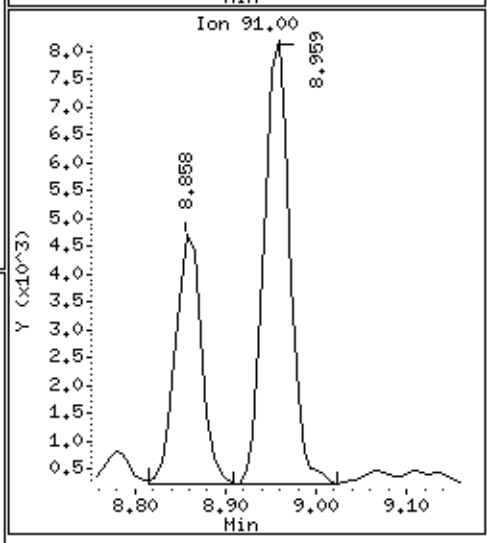












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

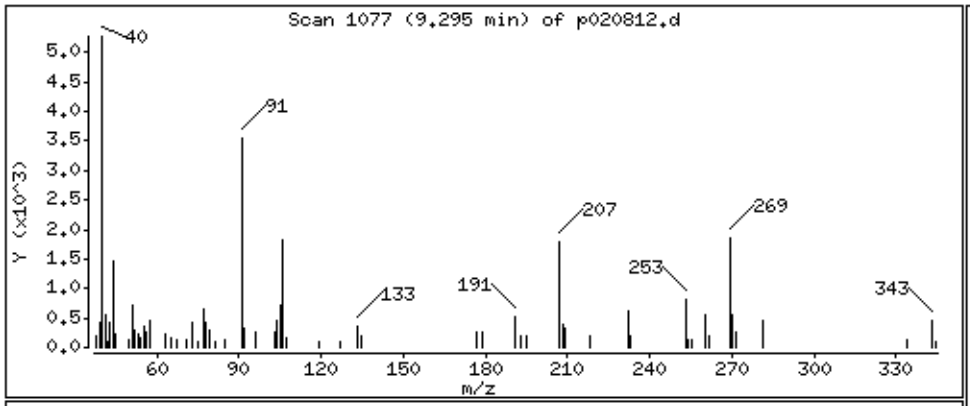
Operator: sab

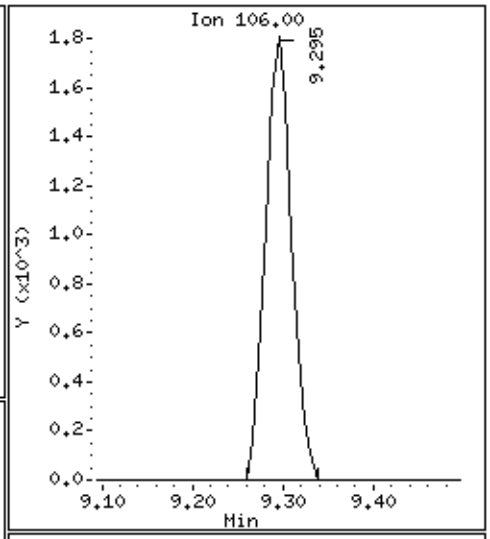
Column phase: RTX-624

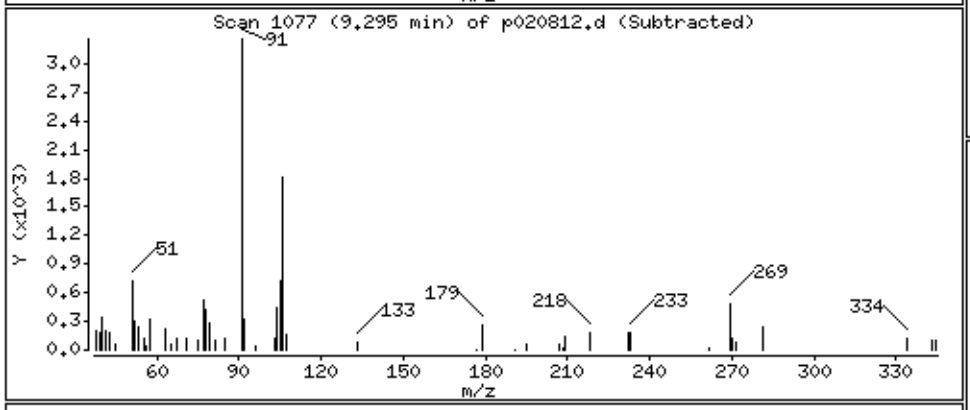
Column diameter: 0.25

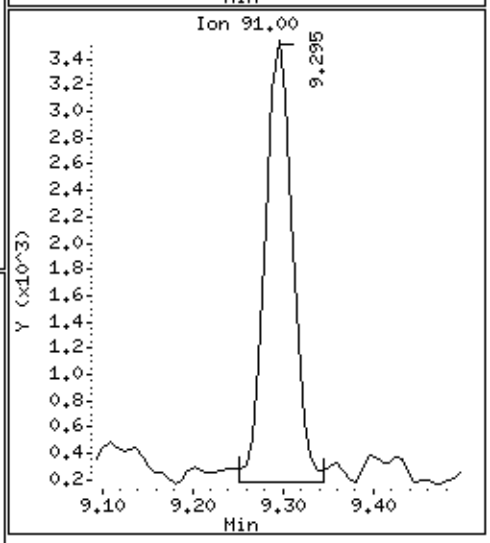
171 o-Xylene

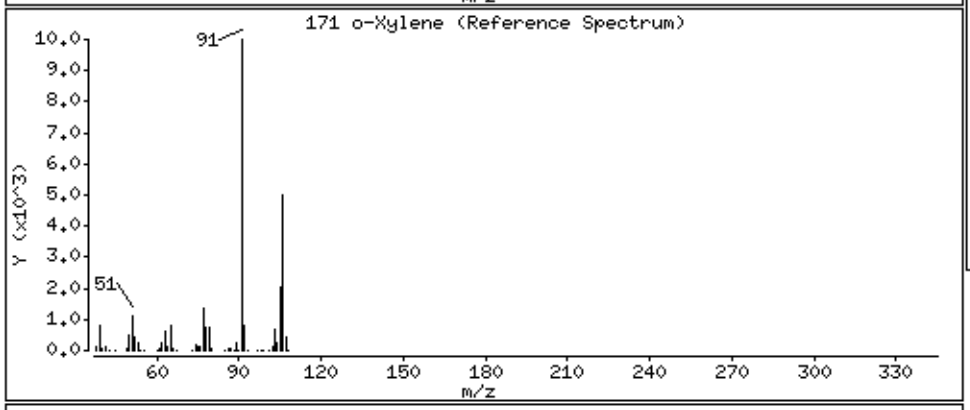
Concentration: 2.774 PPBV

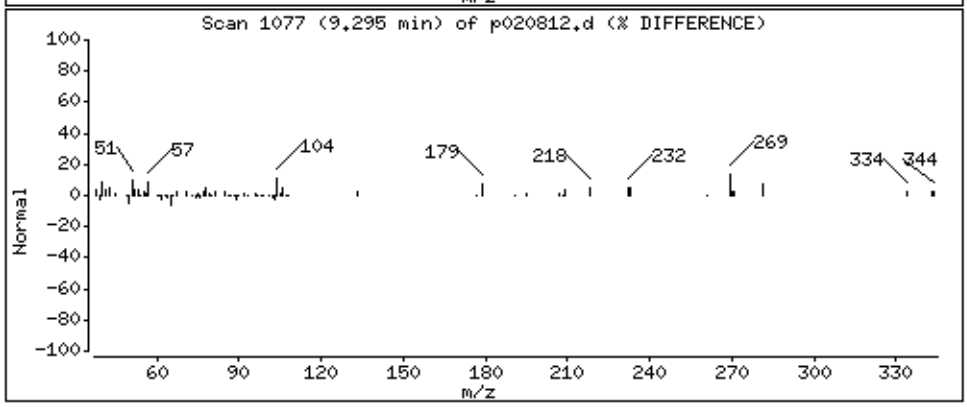












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

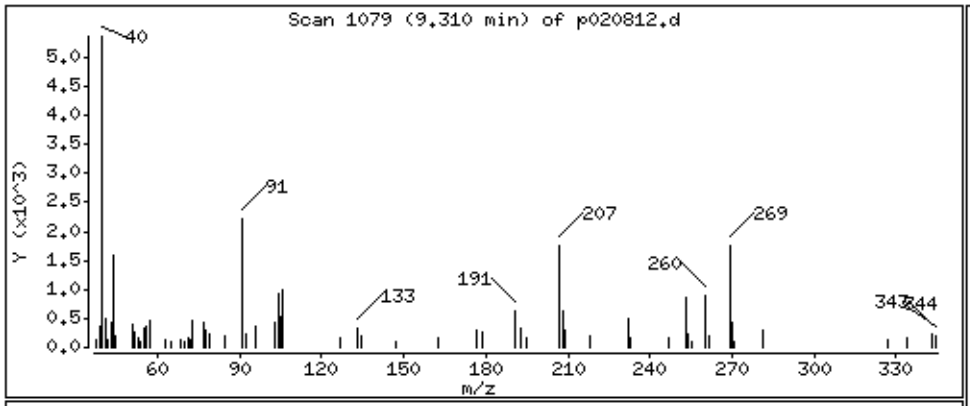
Operator: sab

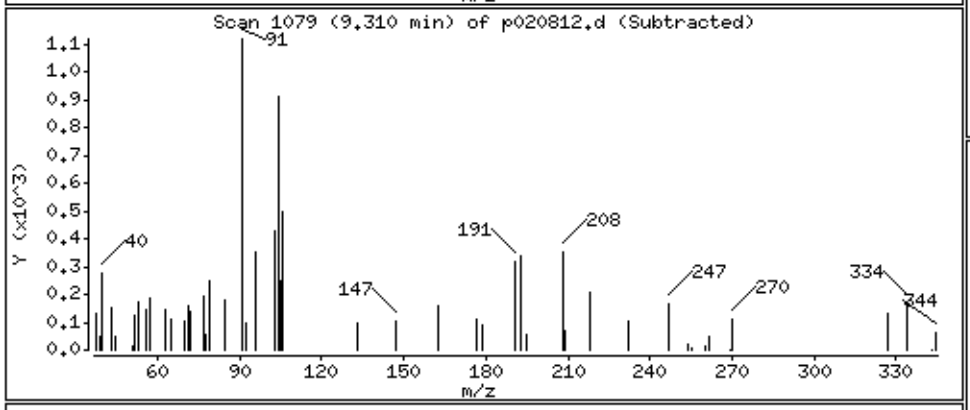
Column phase: RTX-624

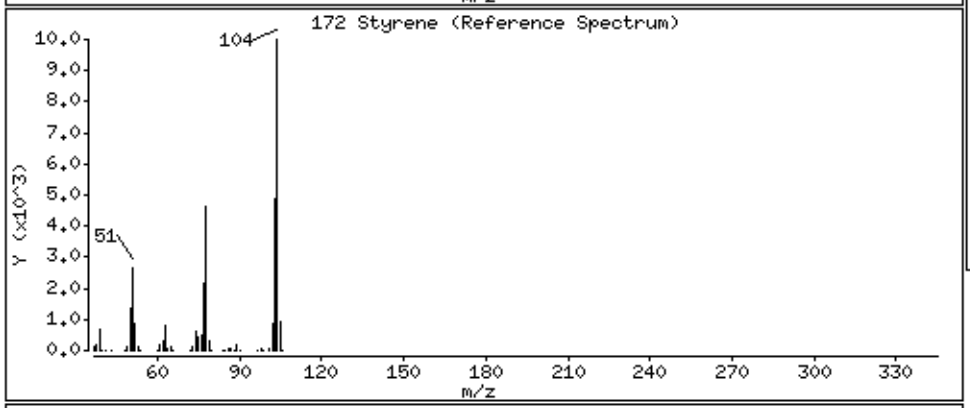
Column diameter: 0.25

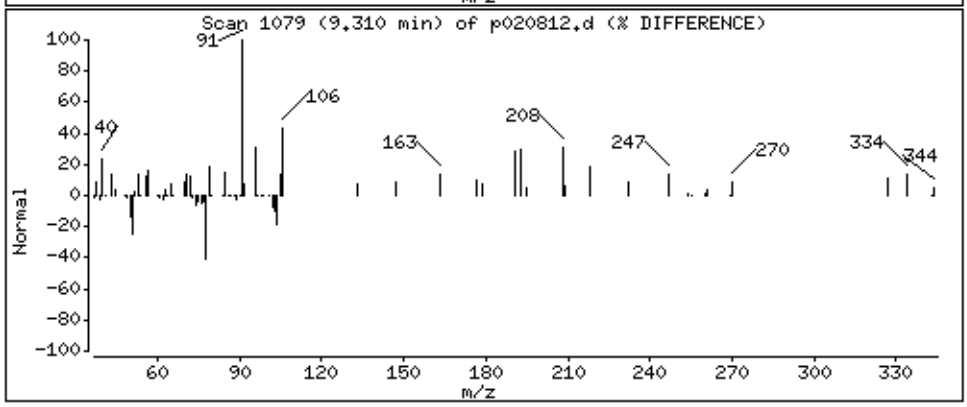
172 Styrene

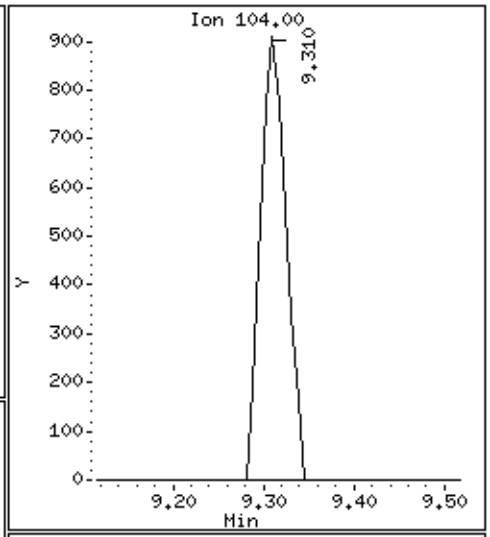
Concentration: 0.9051 PPBV

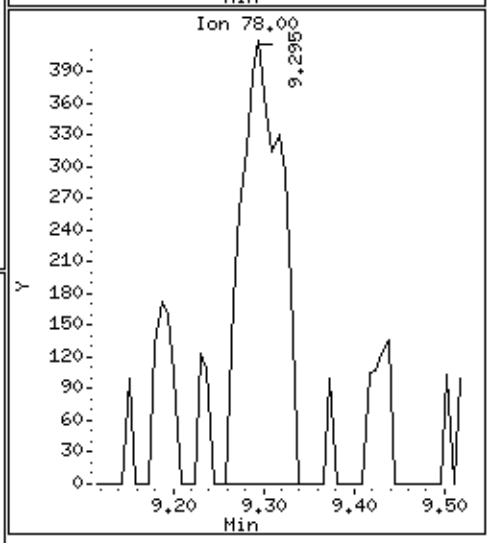












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

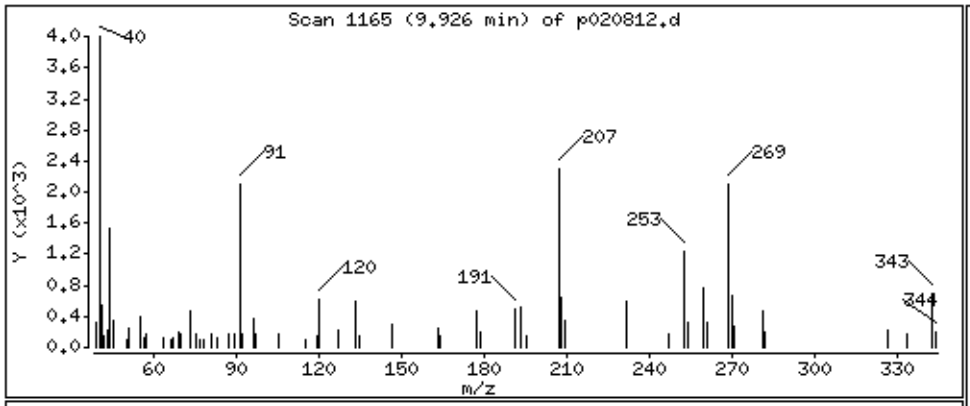
Operator: sab

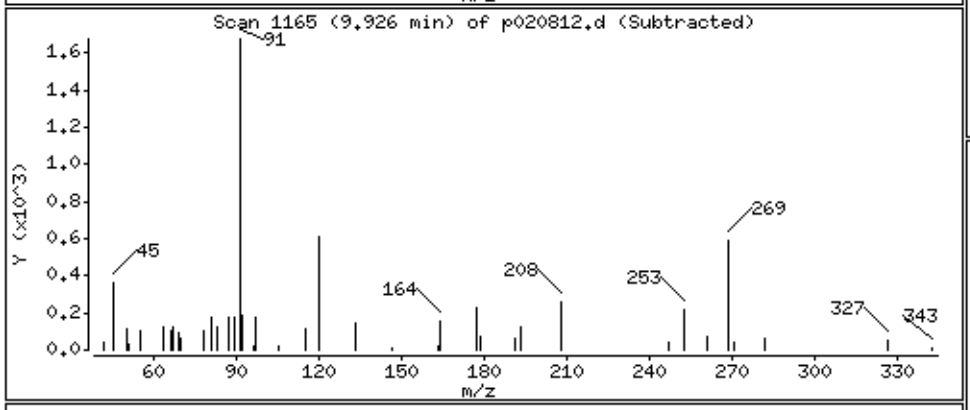
Column phase: RTX-624

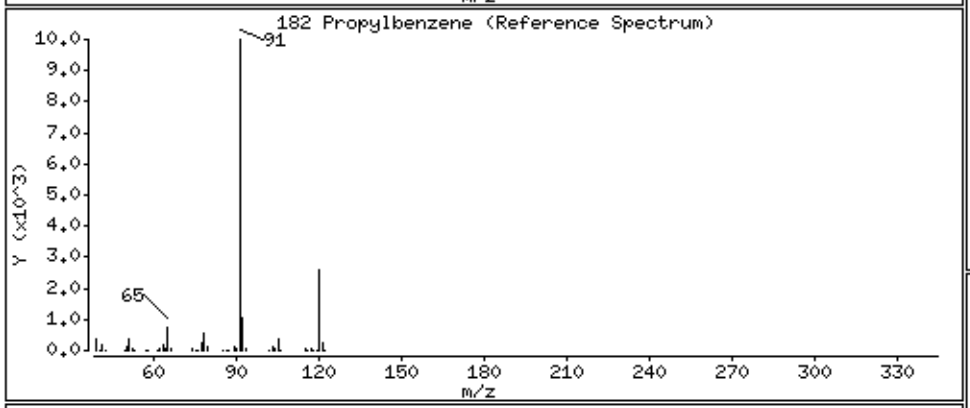
Column diameter: 0.25

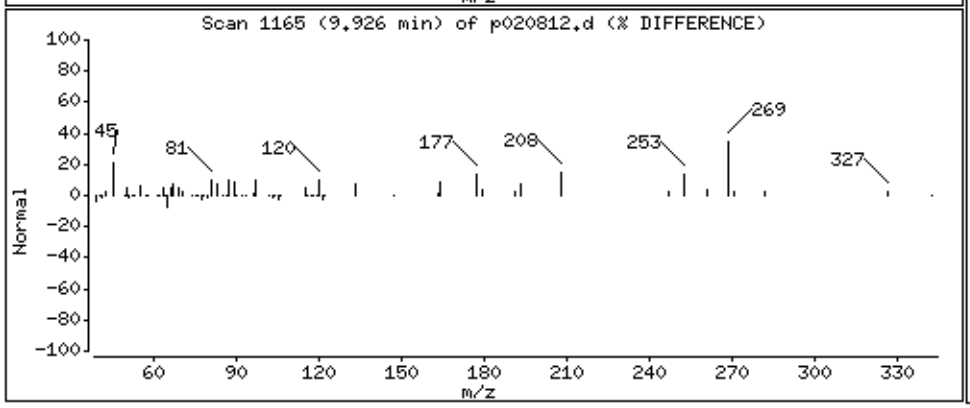
182 Propylbenzene

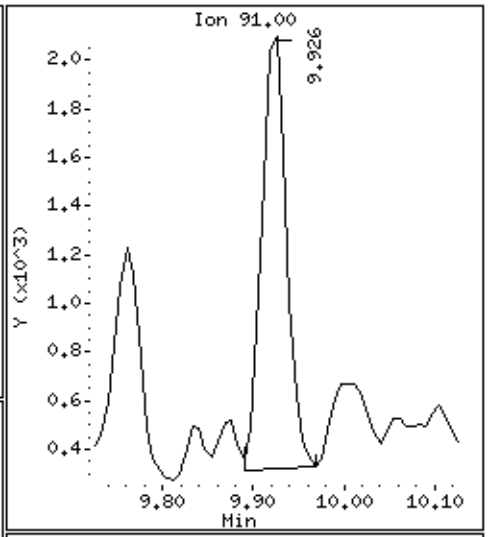
Concentration: 0.6968 PPBV

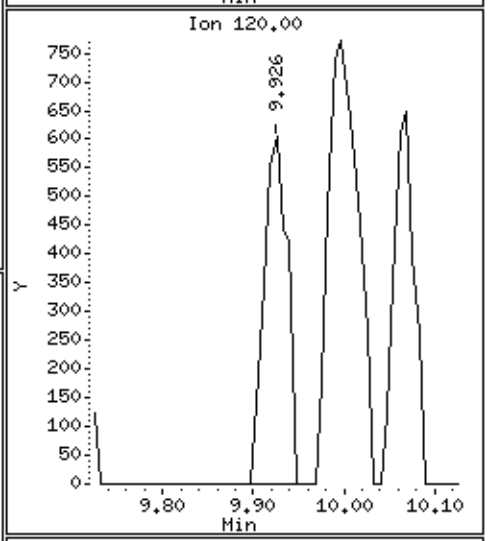


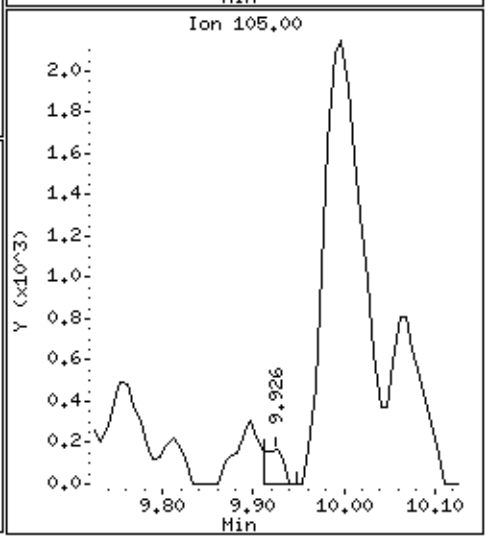












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

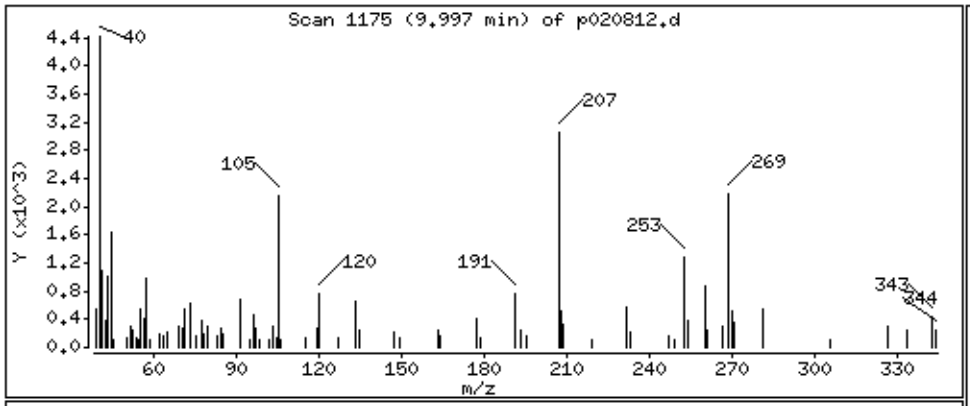
Operator: sab

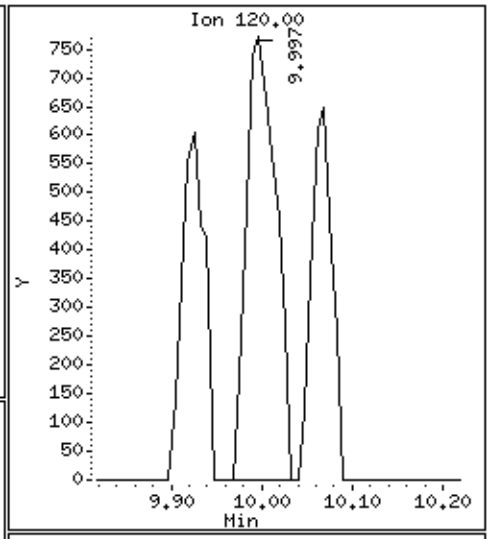
Column phase: RTX-624

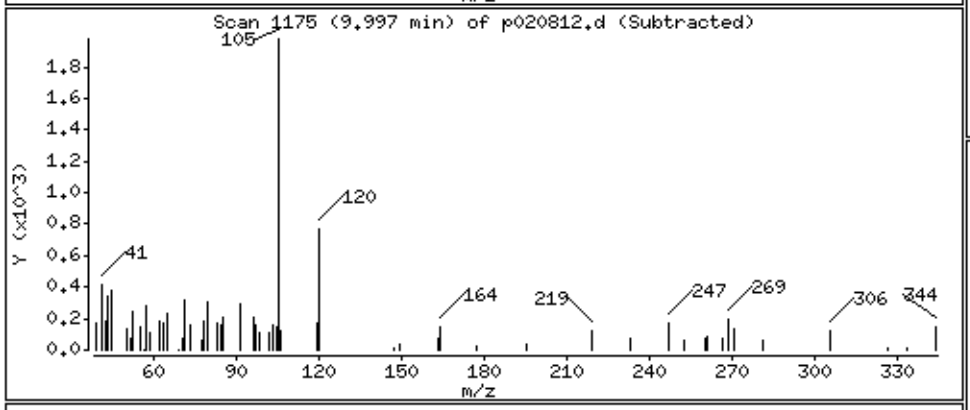
Column diameter: 0.25

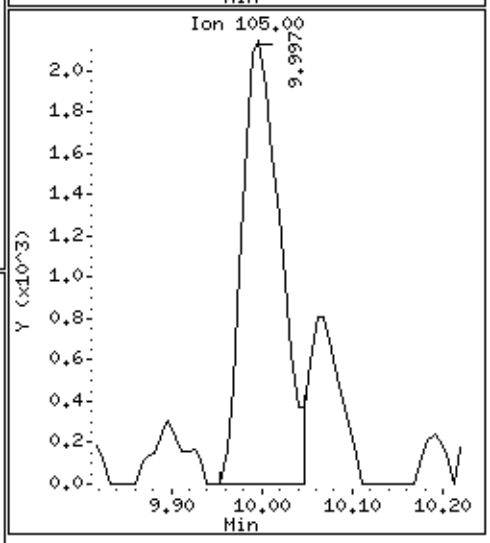
188 4-Ethyltoluene

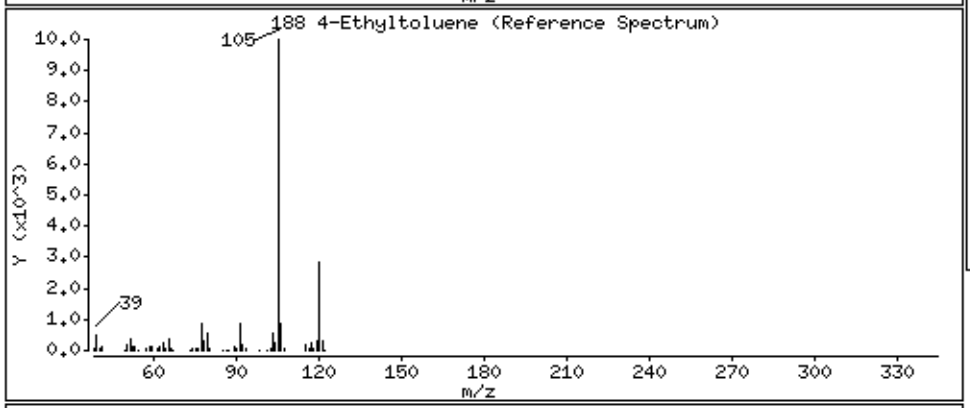
Concentration: 1.316 PPBV

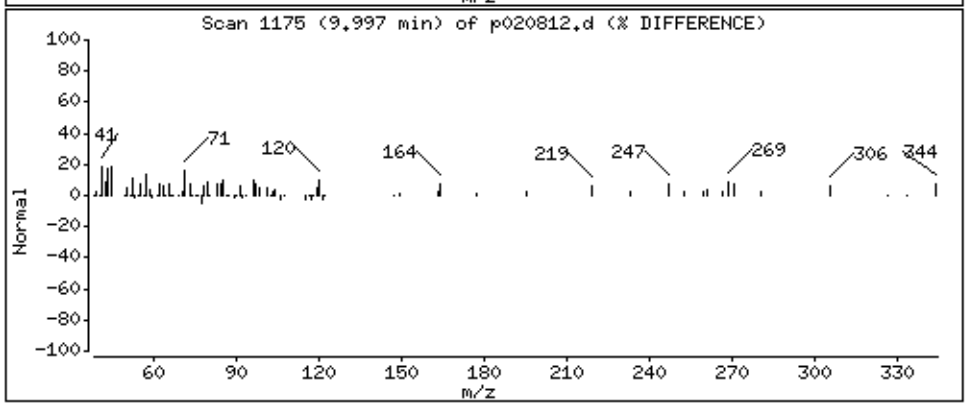












Data File: /chem/msdp.i/08feb16.b/p020812.d

Date : 08-FEB-2016 16:28

Client ID:

Instrument: msdp.i

Sample Info: 50ml 34579

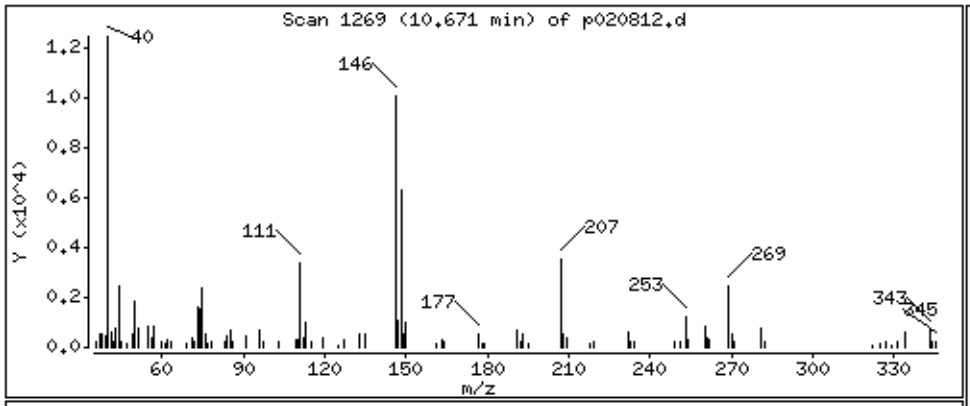
Operator: sab

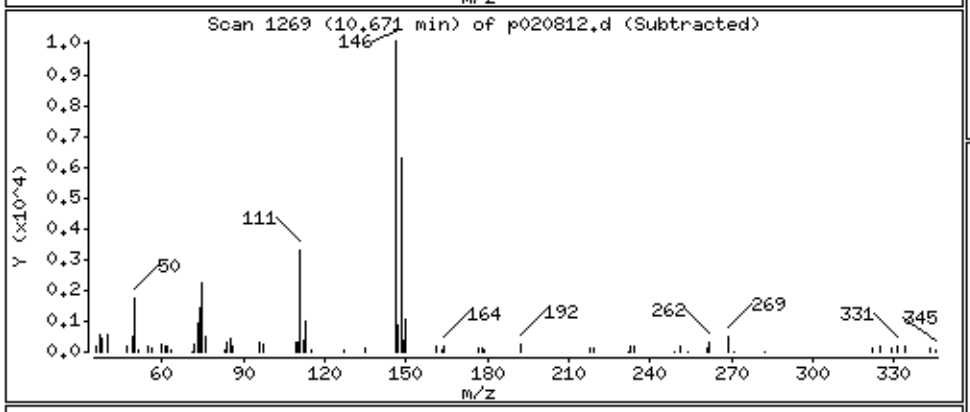
Column phase: RTX-624

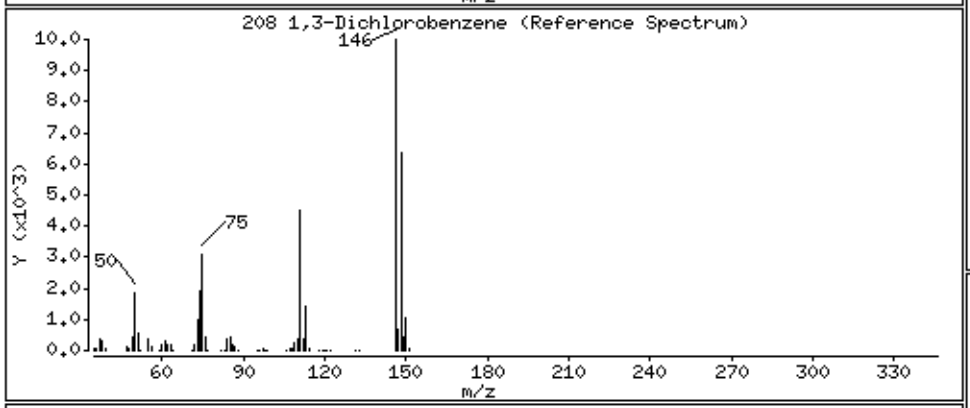
Column diameter: 0.25

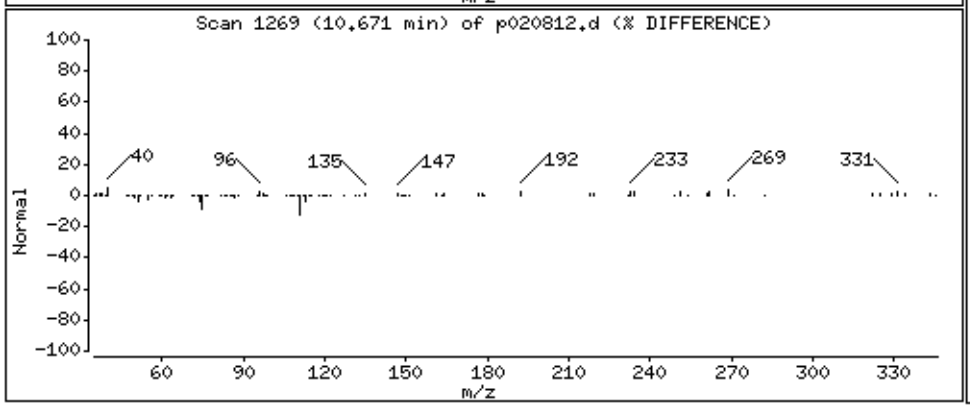
208 1,3-Dichlorobenzene

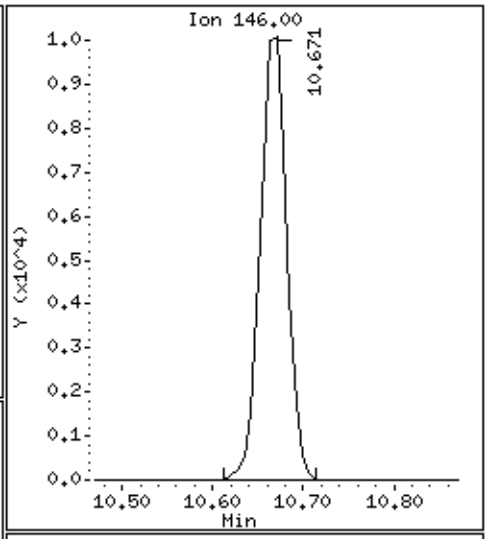
Concentration: 7.666 PPBV

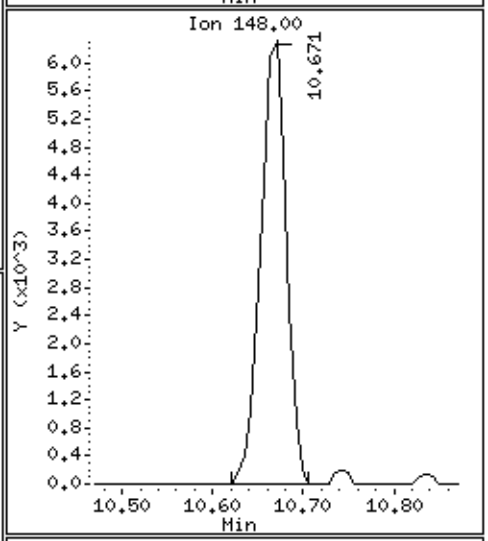


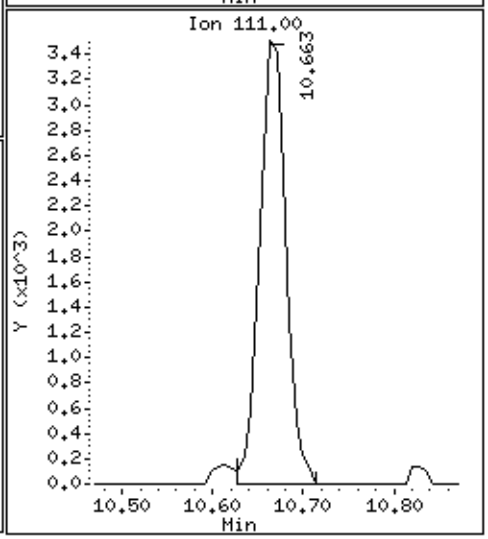












eurofins | Air Toxics

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

Client Sample ID: B42-2SSV013116

Lab ID#: 1602064B-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.60 J	5.6	3.0 J
Ethanol	4.5	50	8.5	94
Acetone	11	9.3 J	27	22 J
2-Propanol	4.5	4.9	11	12
Carbon Disulfide	4.5	1.2 J	14	3.6 J
2-Butanone (Methyl Ethyl Ketone)	4.5	1.3 J	13	3.9 J
Tetrahydrofuran	1.1	3.9	3.3	12
Heptane	1.1	0.73 J	4.6	3.0 J
Toluene	1.1	0.37 J	4.2	1.4 J

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Client Sample ID: B42-2SSV013116

Lab ID#: 1602064B-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020811**	**Date of Collection:**	**1/31/16 4:06:00 PM**
Dil. Factor:	**2.26**	**Date of Analysis:**	**2/8/16 04:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.60 J	5.6	3.0 J
Freon 114	1.1	Not Detected	7.9	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	50	8.5	94
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	9.3 J	27	22 J
2-Propanol	4.5	4.9	11	12
Carbon Disulfide	4.5	1.2 J	14	3.6 J
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	1.3 J	13	3.9 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	3.9	3.3	12
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	0.73 J	4.6	3.0 J
Trichloroethene	1.1	Not Detected	6.1	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	0.37 J	4.2	1.4 J
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.7	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

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Client Sample ID: B42-2SSV013116

Lab ID#: 1602064B-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020811**	**Date of Collection:**	**1/31/16 4:06:00 PM**
Dil. Factor:	**2.26**	**Date of Analysis:**	**2/8/16 04:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.6	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.7	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	34	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020811.d
Lab Smp Id: 1602064B-17A
Inj Date : 08-FEB-2016 16:04
Operator : sab Inst ID: msdp.i
Smp Info : 200ml 37718
Misc Info : 3.3 Hg->14.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 13-Feb-2016 11:45 dbailey Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 7
Dil Factor: 2.26000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.26000	Dilution Factor

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	141589	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	110066			49.06- 109.06	77.74
5.456	5.449 (1.000)	49	214429			124.20- 184.20	151.44
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	579247	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	86097			0.00- 44.57	14.86
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.779 (1.000)	117	558365	25.0000		80.00- 120.00	100.00
8.787	8.779 (1.000)	82	285457			20.36- 80.36	51.12
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.993	5.986 (1.098)	65	201487	24.1141	24.114	80.00- 120.00	100.00
5.993	5.986 (1.098)	67	100244			26.68- 86.68	49.75

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.554	7.555 (1.191)	98	566863	24.4941	24.494	80.00- 120.00	100.00
7.562	7.555 (1.192)	70	62209			0.00- 40.62	10.97
7.562	7.555 (1.192)	100	377491			36.74- 96.74	66.59
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	424103	23.5511	23.551	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	412626			65.95- 125.95	97.29
9.761	9.761 (1.111)	176	406909			65.80- 125.80	95.95
11 Freon 12					CAS #: 75-71-8		
1.521	1.507 (0.279)	85	4215	0.26760	0.6048	80.00- 120.00	100.00(a)
1.521	1.507 (0.279)	87	486			1.76- 61.76	11.53
42 Ethanol					CAS #: 64-17-5		
2.891	2.877 (0.530)	45	59596	22.1265	50.006	80.00- 120.00	100.00
2.891	2.877 (0.530)	43	12770			0.00- 50.77	21.43
2.891	2.877 (0.530)	46	23882			8.68- 68.68	40.07
52 Acetone					CAS #: 67-64-1		
3.400	3.386 (0.623)	58	15438	4.13585	9.347	80.00- 120.00	100.00(a)
3.400	3.386 (0.623)	43	55157			323.05- 383.05	357.28
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	8284	0.51322	1.160	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.565	3.550 (0.653)	45	34864	2.18921	4.948	80.00- 120.00	100.00
3.572	3.550 (0.655)	43	8214			0.00- 49.72	23.56
3.572	3.550 (0.655)	59	1187			0.00- 33.36	3.41
92 2-Butanone					CAS #: 78-93-3		
5.255	5.248 (0.963)	72	1795	0.58612	1.325	80.00- 120.00	100.00(a)
5.248	5.248 (0.962)	43	11233			452.15- 512.15	625.59
5.255	5.248 (0.963)	57	894			9.54- 69.54	49.79
99 Tetrahydrofuran					CAS #: 109-99-9		
5.449	5.441 (0.999)	42	14145	1.72694	3.903	80.00- 120.00	100.00
5.449	5.441 (0.999)	71	5482			2.09- 62.09	38.76
5.449	5.441 (0.999)	72	4505			3.61- 63.61	31.85
121 Heptane					CAS #: 142-82-5		
6.129	6.129 (0.966)	71	2461	0.32249	0.7288	80.00- 120.00	100.00(a)
6.136	6.129 (0.967)	43	3926			172.43- 232.43	159.54
6.136	6.129 (0.967)	57	2978			85.51- 145.51	121.02

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
147 Toluene						CAS #: 108-88-3		
7.612	7.612	(1.200)	91	4049	0.16405	0.3707	80.00- 120.00	100.00(a)
7.612	7.612	(1.200)	92	2004			27.38- 87.38	49.50

QC Flag Legend

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

Report Date: 15-Feb-2016 13:52

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020811.d
Lab Smp Id: 1602064B-17A
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 3.3 Hg->14.9 psi

Calibration Date: 08-FEB-2016
Calibration Time: 10:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	141589	-7.15
123 1,4-Difluorobenze	608067	364840	851294	579247	-4.74
163 Chlorobenzene-d5	577195	346317	808073	558365	-3.26

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	8.79	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: 15-Feb-2016 13:52

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1602064B-17A
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 3.3 Hg->14.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.114	96.46	70-130
$ 146 Toluene-d8	25.000	24.494	97.98	70-130
$ 177 4-Bromofluorobenze	25.000	23.551	94.20	70-130

Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

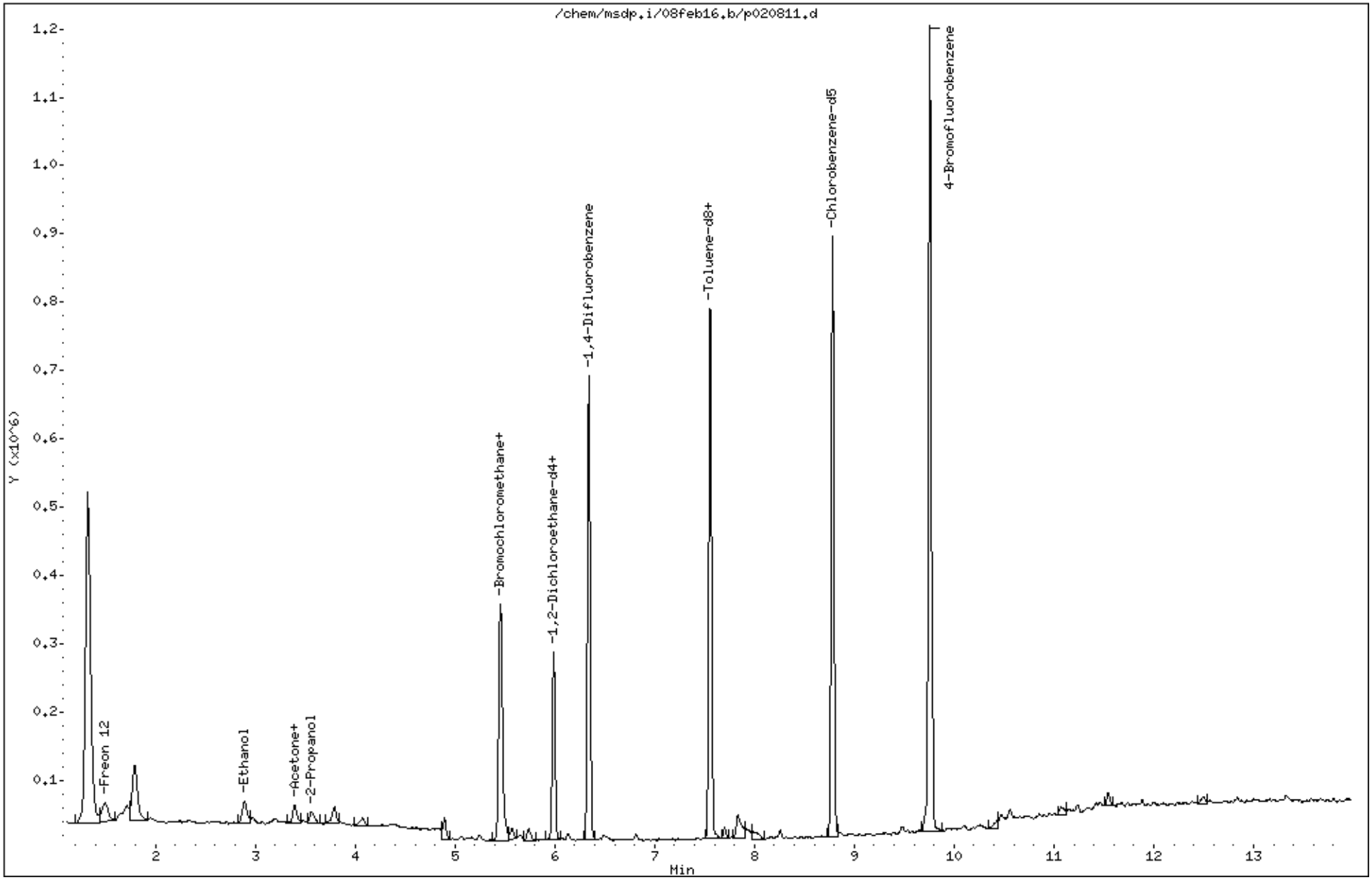
Sample Info: 200ml 37718

Column phase: RTX-624

Instrument: msdp.i

Operator: sab

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

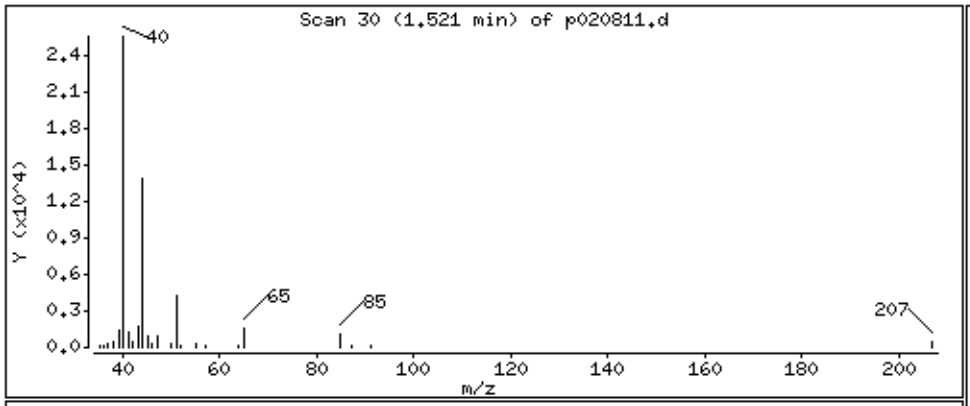
Operator: sab

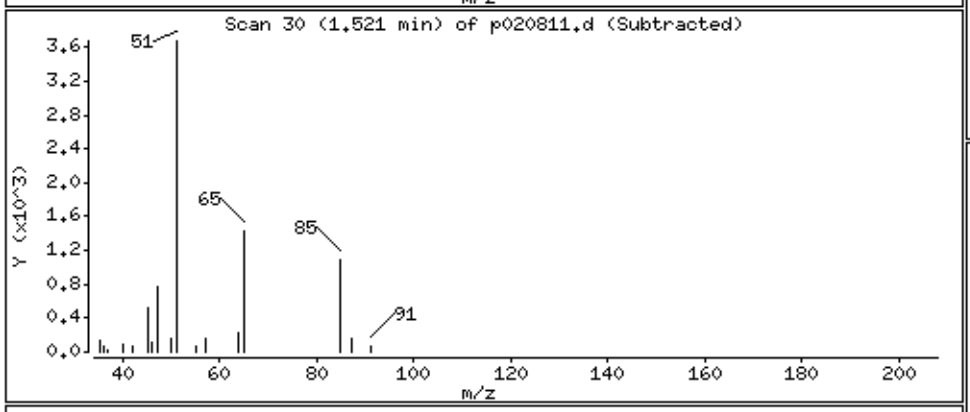
Column phase: RTX-624

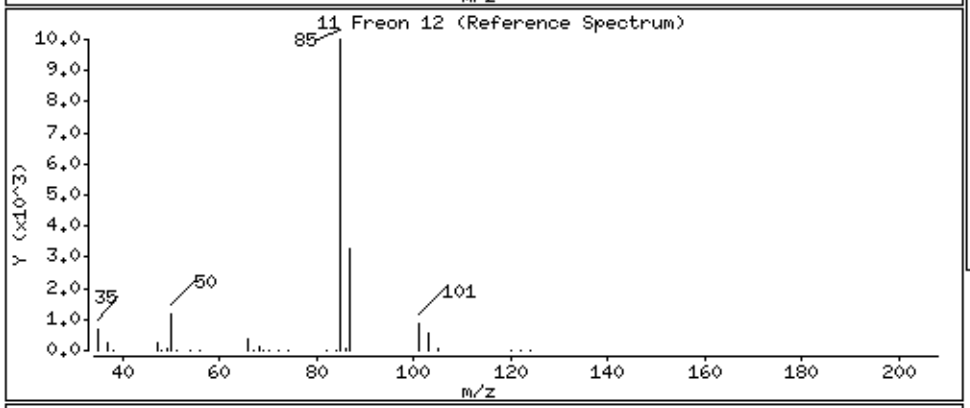
Column diameter: 0.25

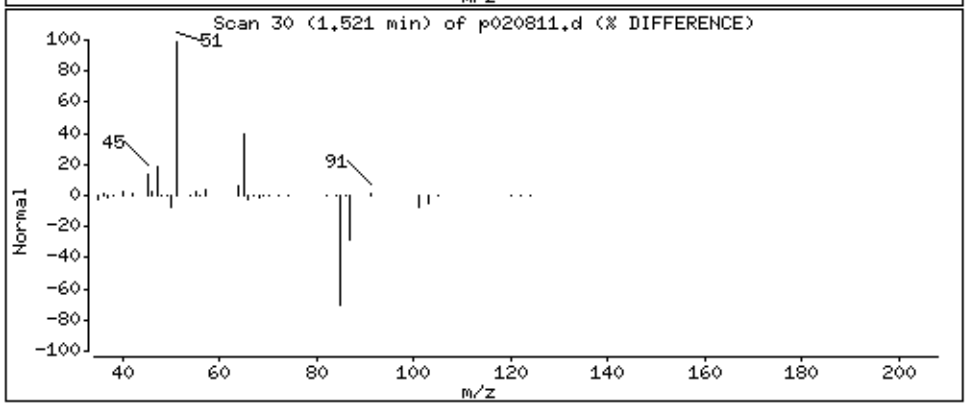
11 Freon 12

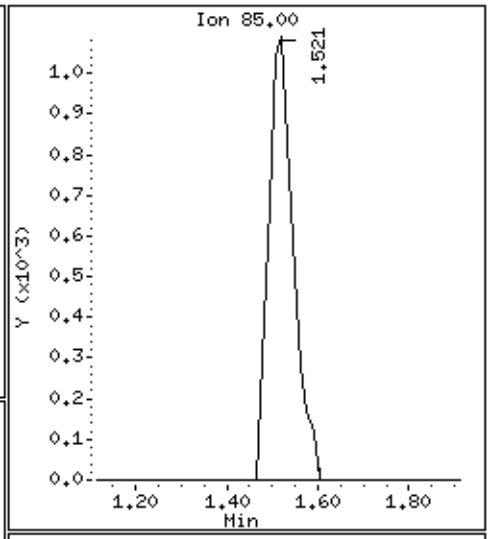
Concentration: 0.6048 PPBV

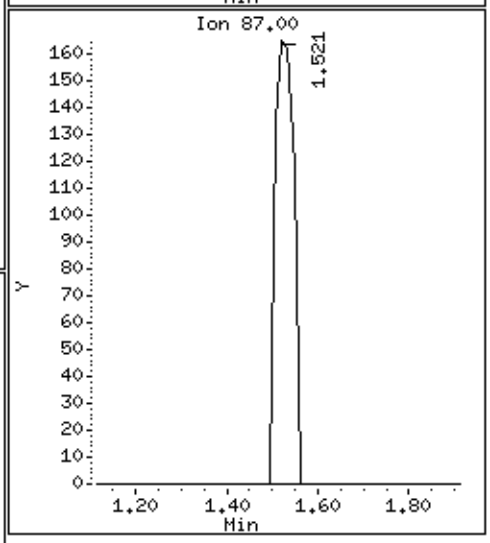












Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

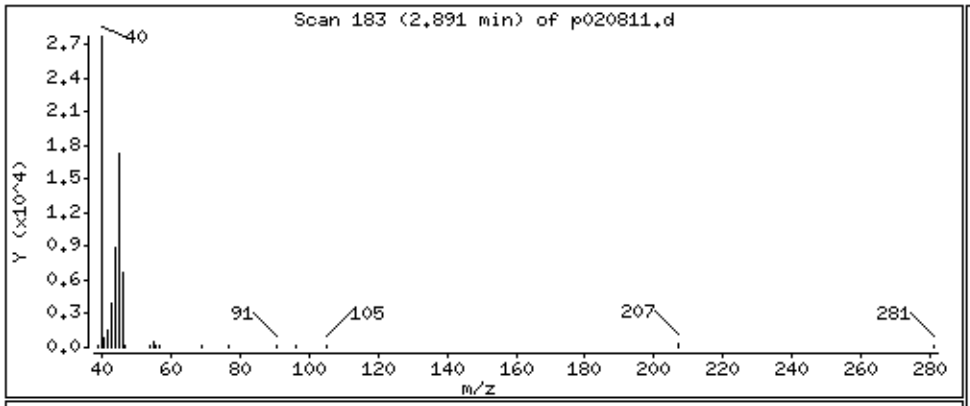
Operator: sab

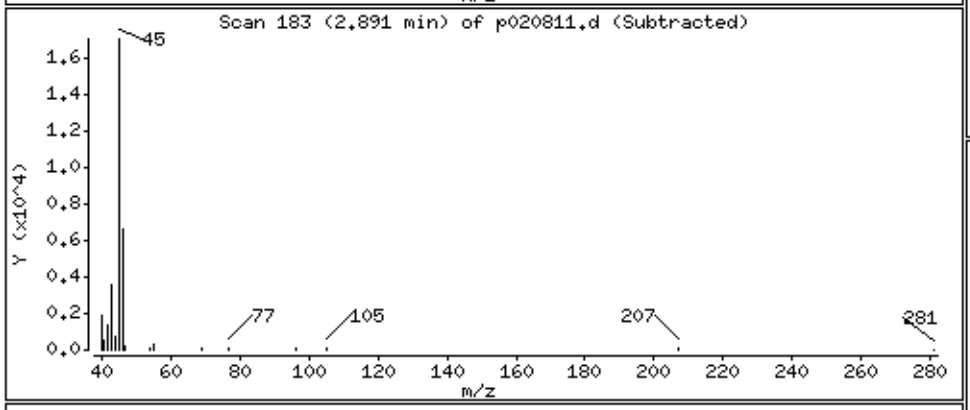
Column phase: RTX-624

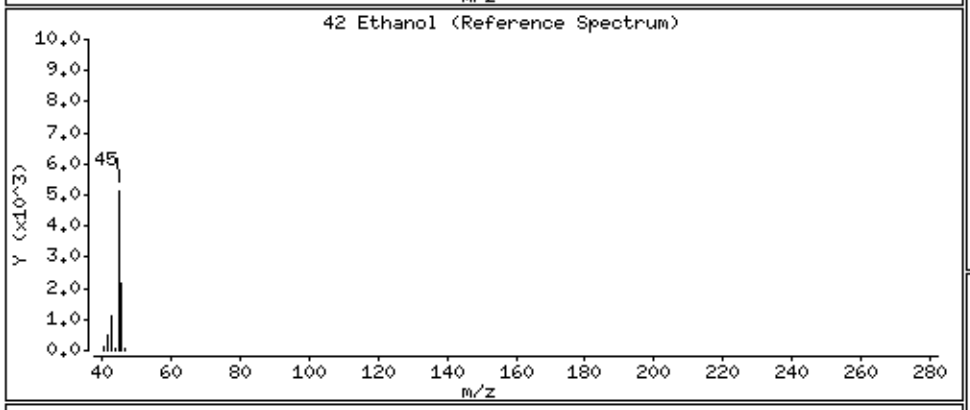
Column diameter: 0.25

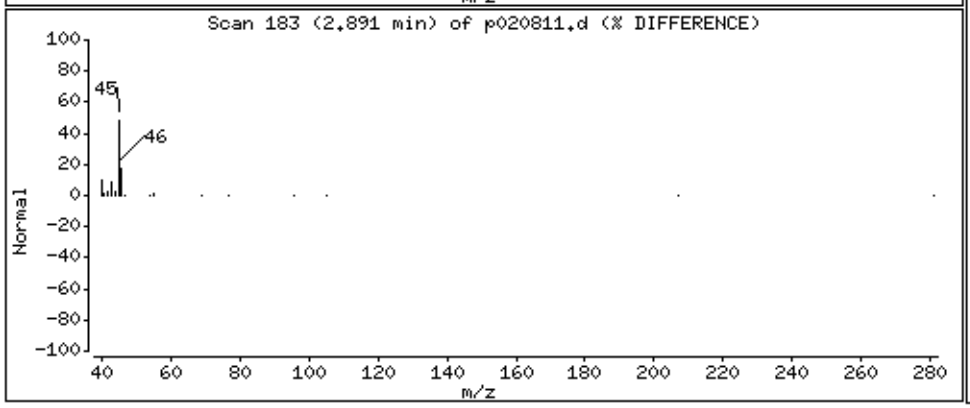
42 Ethanol

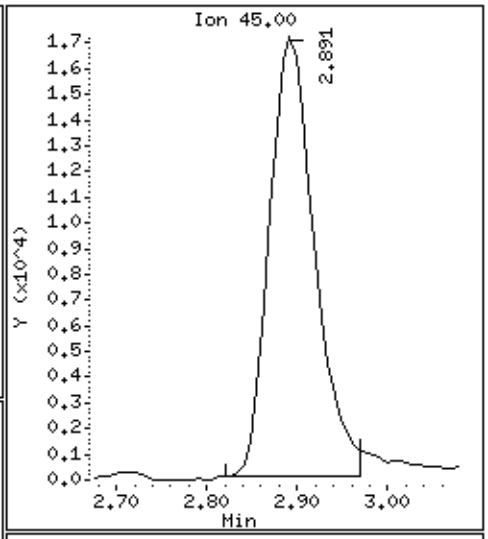
Concentration: 50.006 PPBV

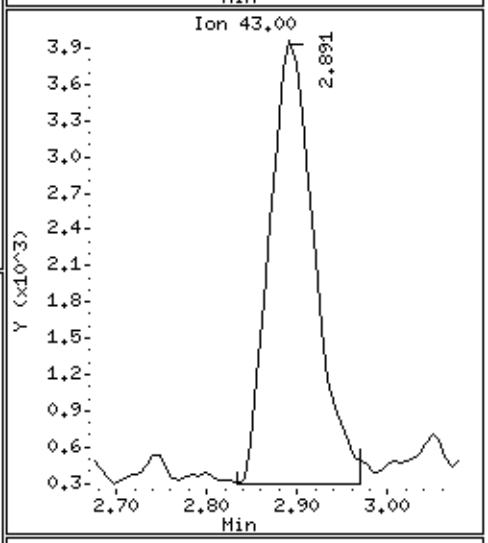


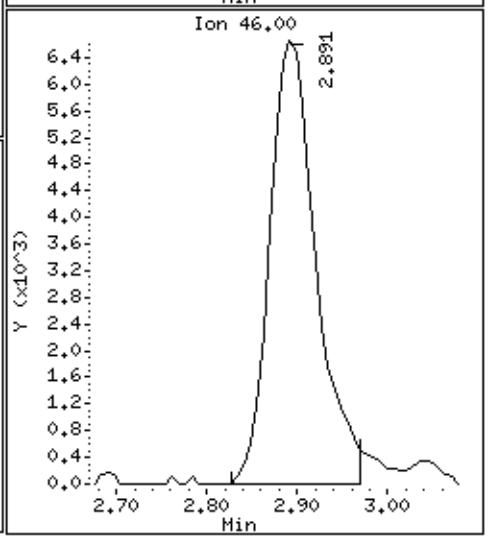












Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

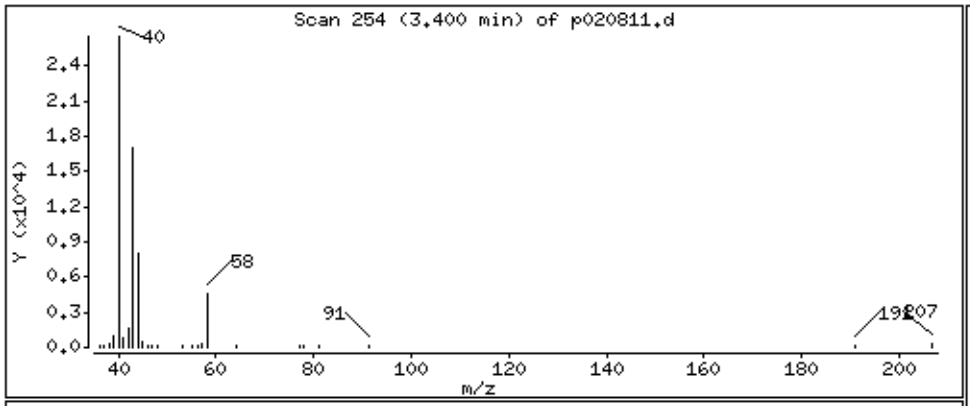
Operator: sab

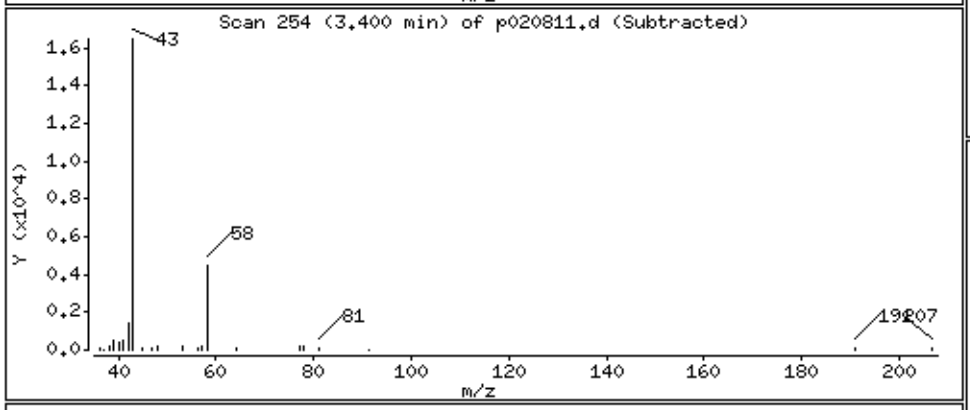
Column phase: RTX-624

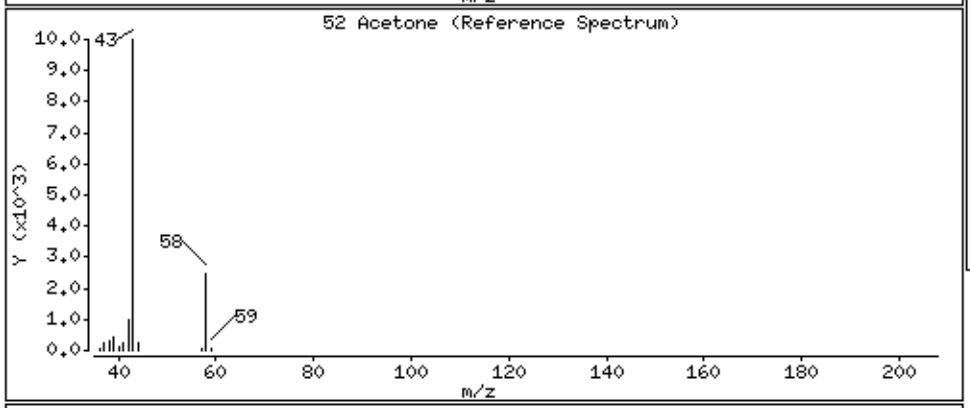
Column diameter: 0.25

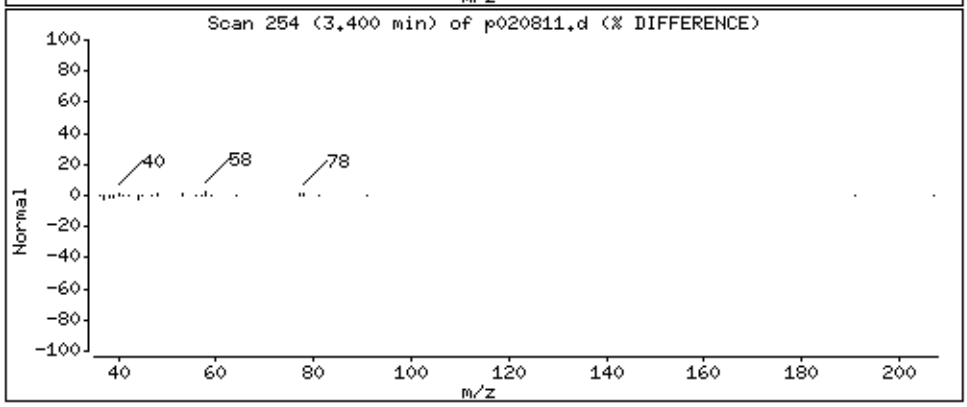
52 Acetone

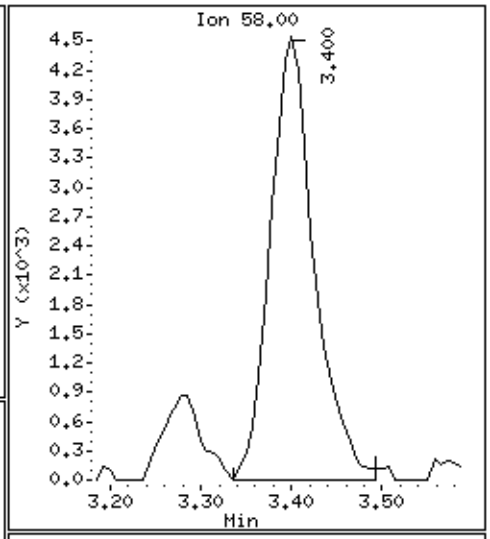
Concentration: 9.347 PPBV

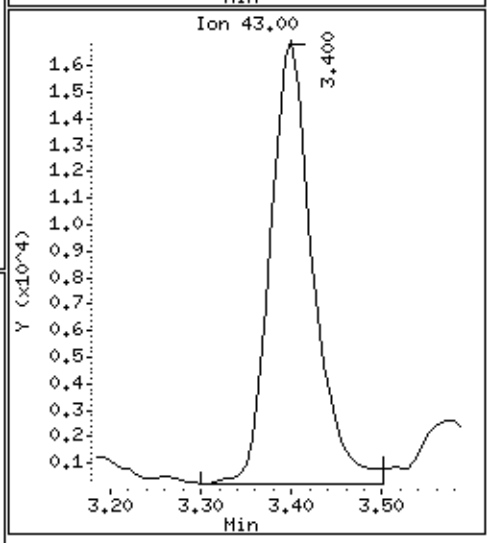












Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

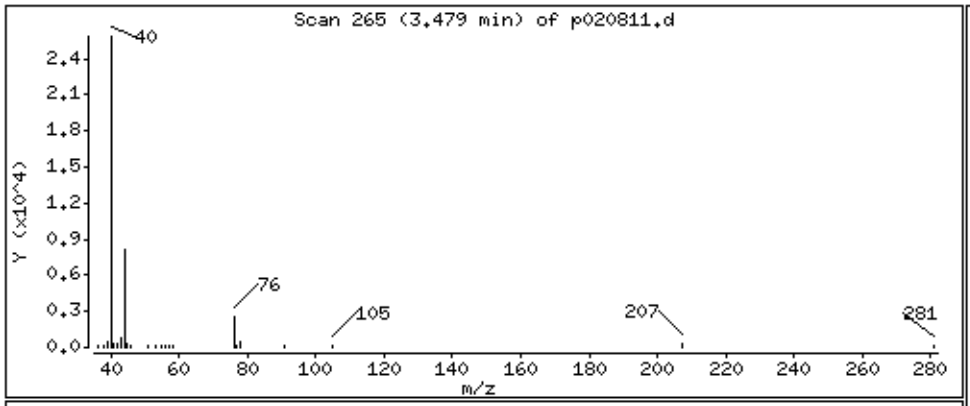
Operator: sab

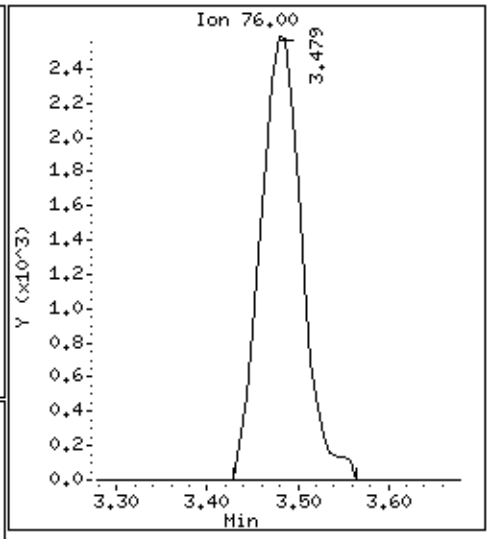
Column phase: RTX-624

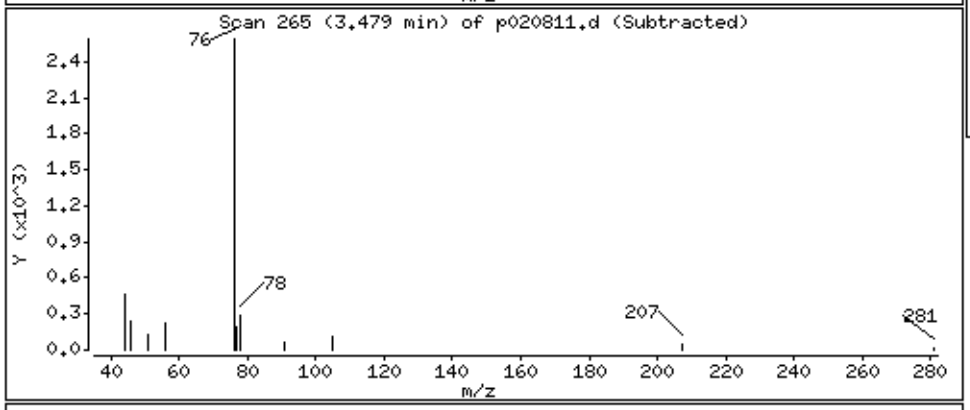
Column diameter: 0.25

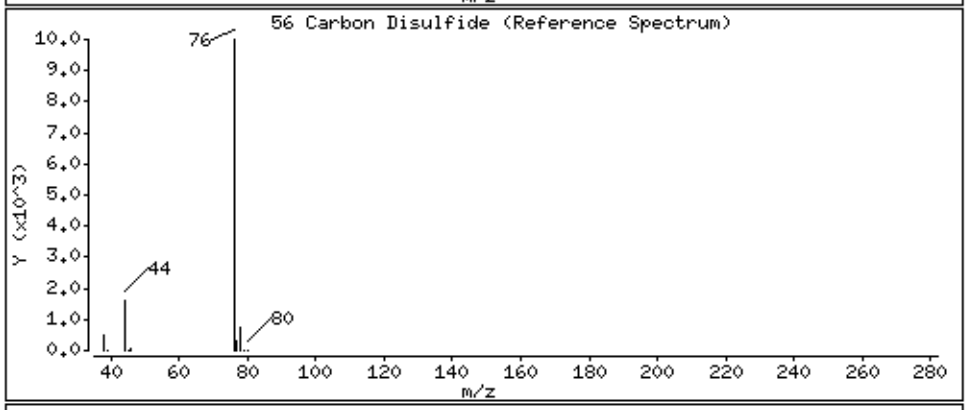
56 Carbon Disulfide

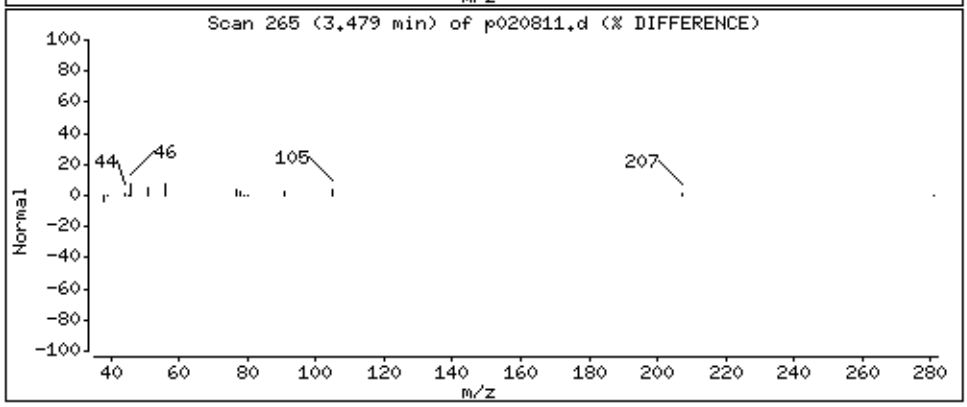
Concentration: 1.160 PPBV











Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

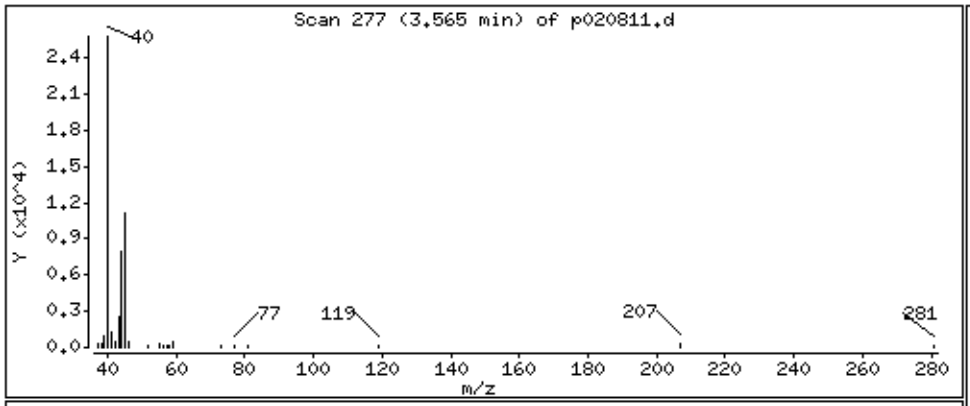
Operator: sab

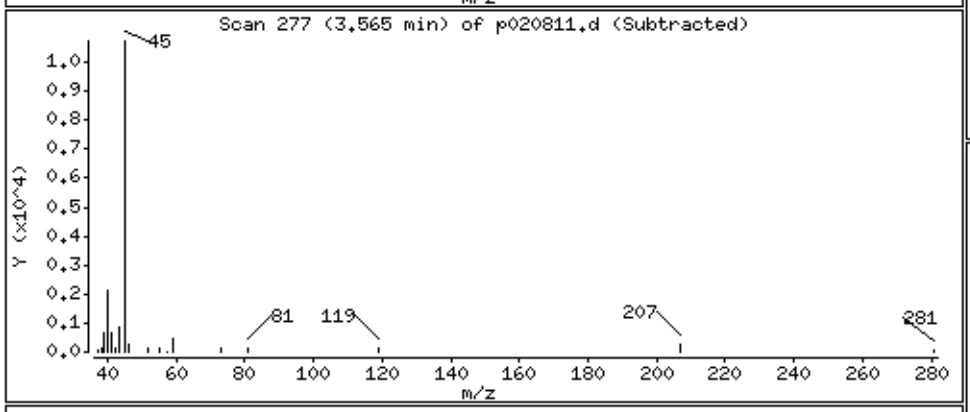
Column phase: RTX-624

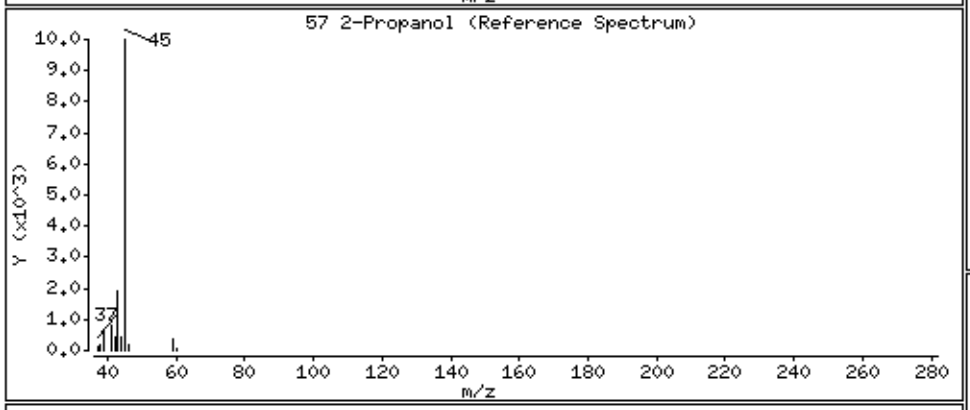
Column diameter: 0.25

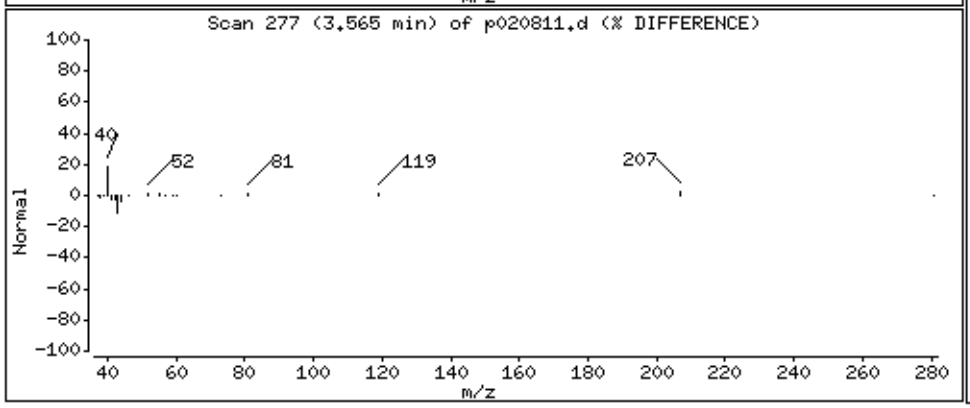
57 2-Propanol

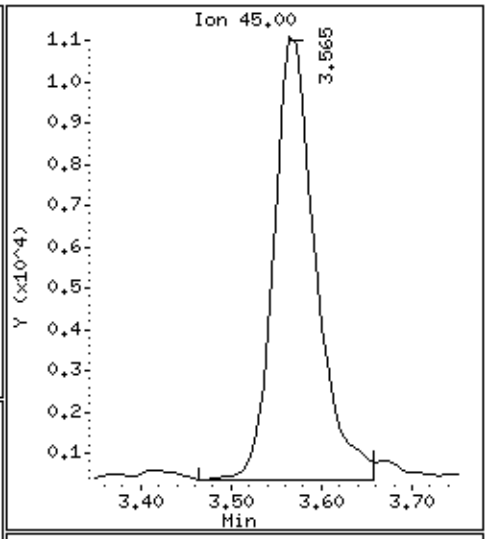
Concentration: 4.948 PPBV

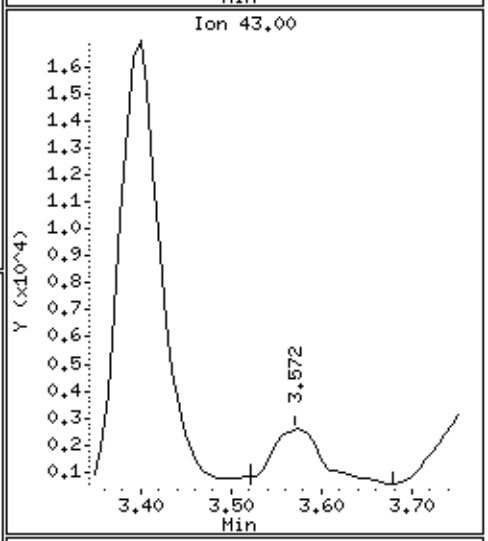


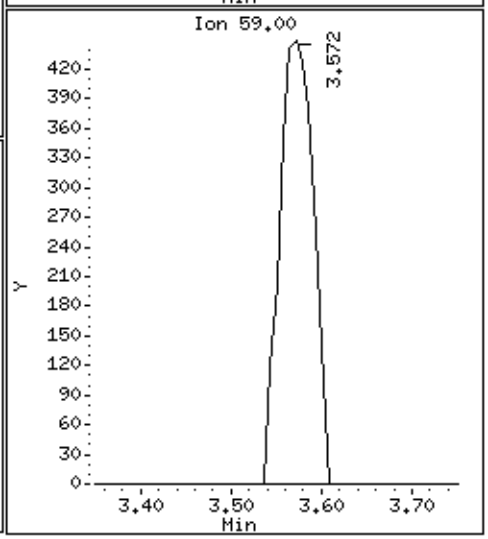












Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

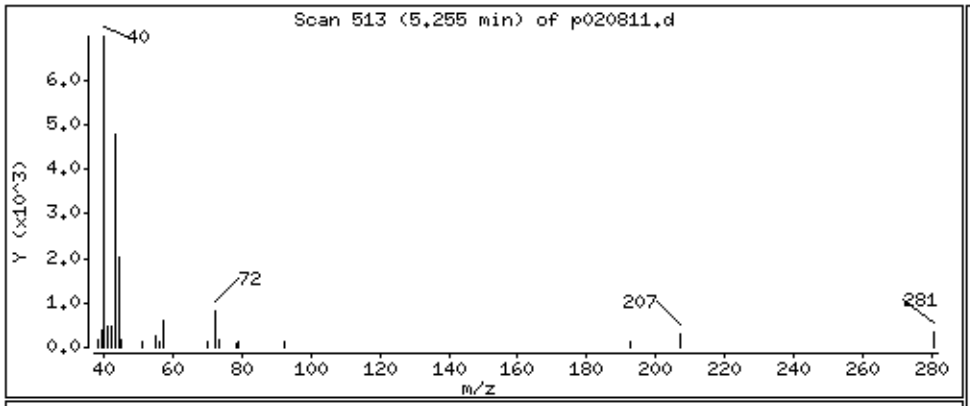
Operator: sab

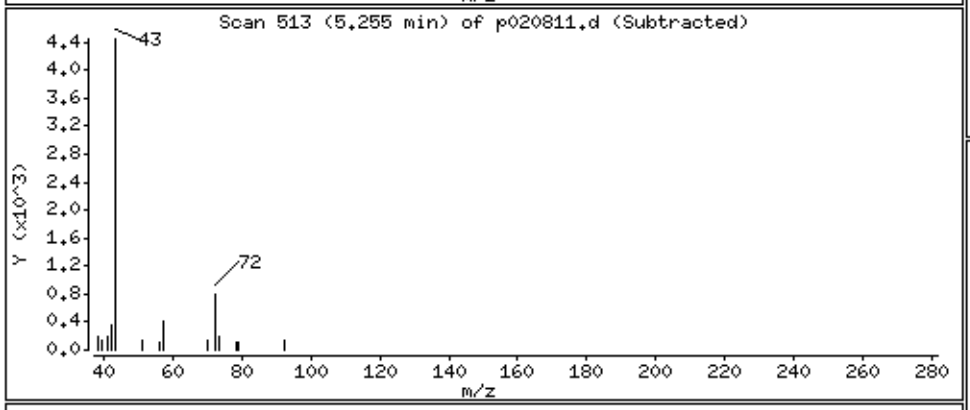
Column phase: RTX-624

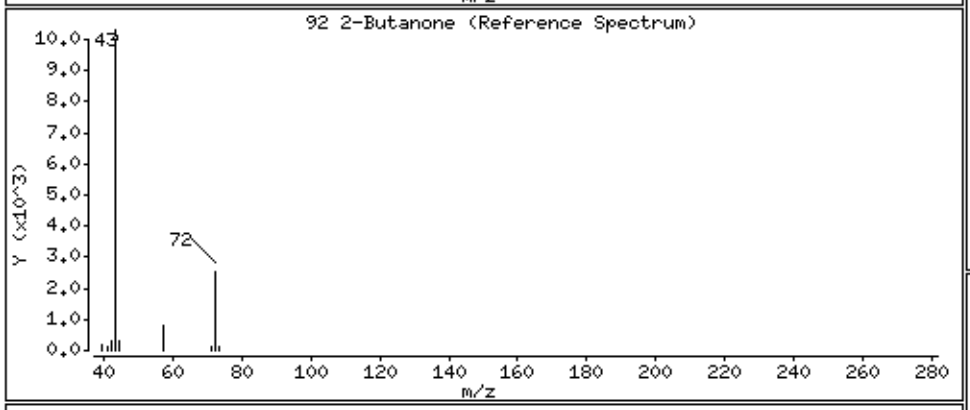
Column diameter: 0.25

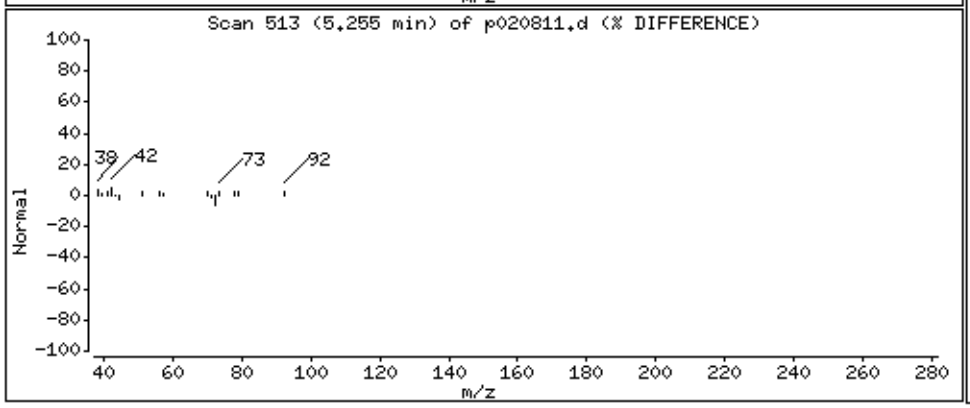
92 2-Butanone

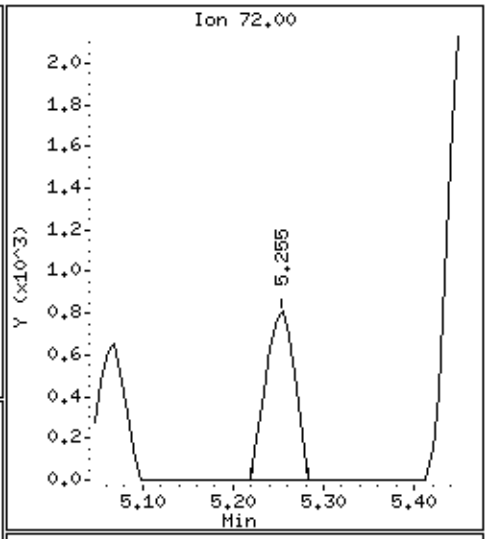
Concentration: 1.325 PPBV

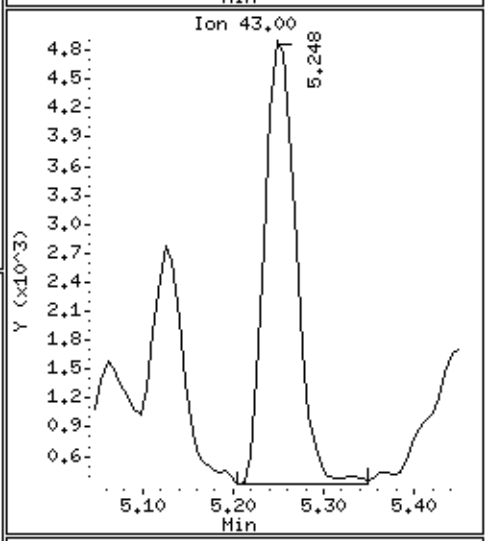


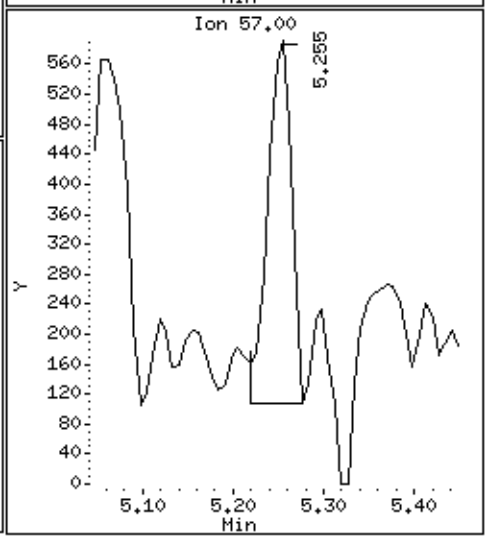












Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

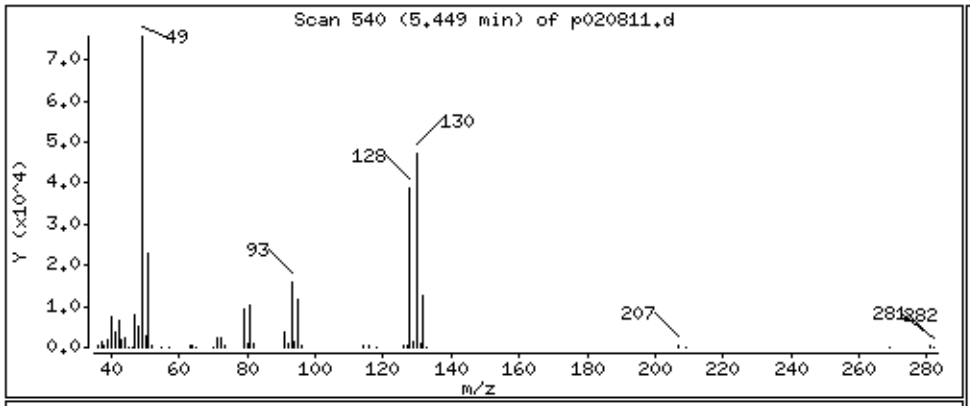
Operator: sab

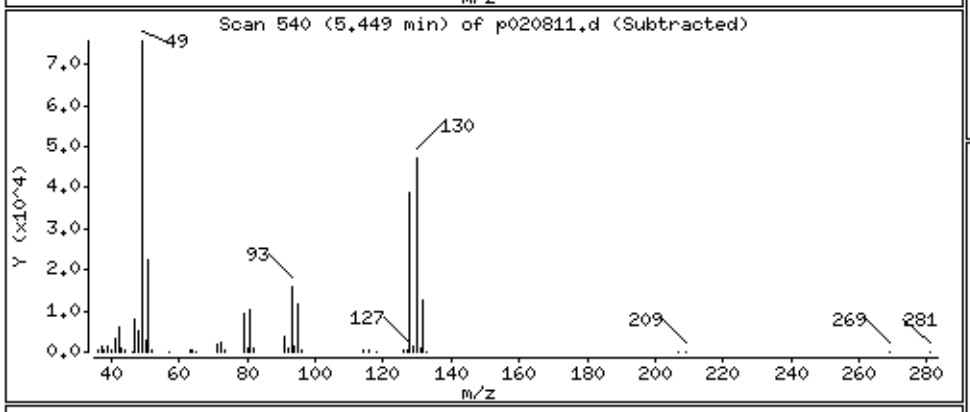
Column phase: RTX-624

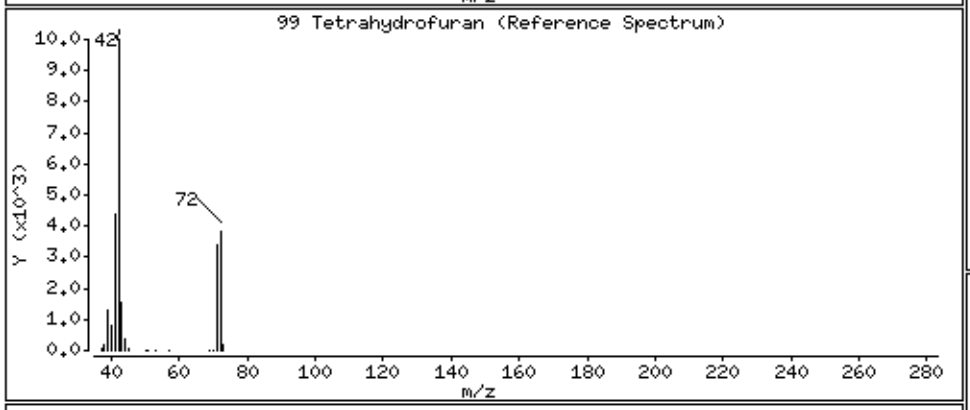
Column diameter: 0.25

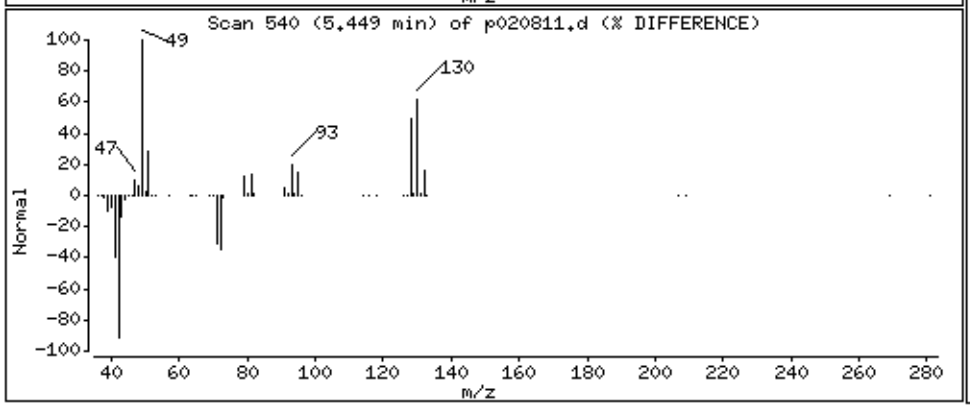
99 Tetrahydrofuran

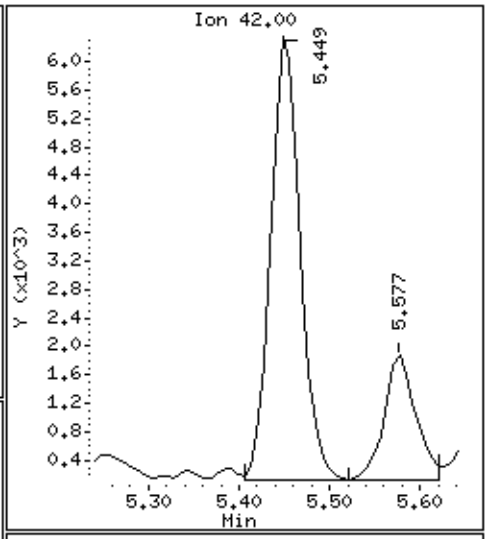
Concentration: 3.903 PPBV

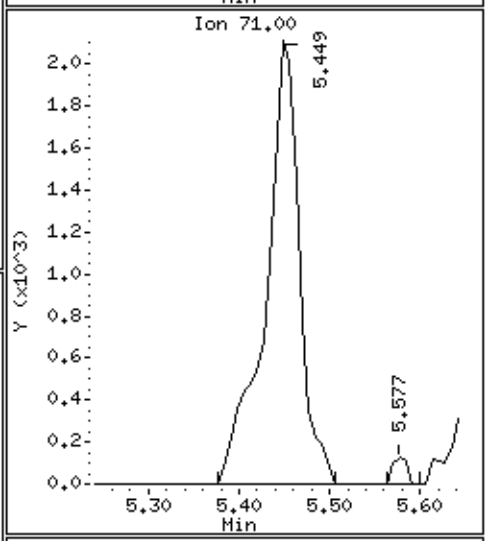


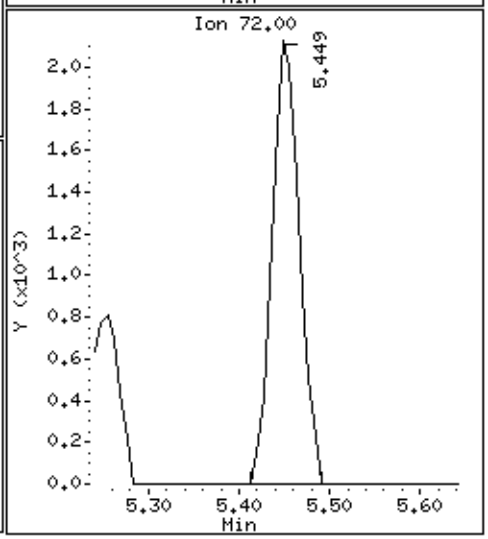












Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

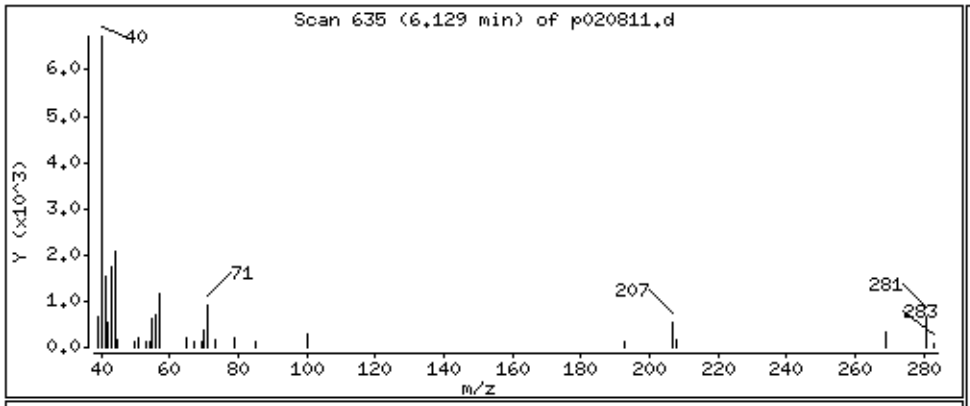
Operator: sab

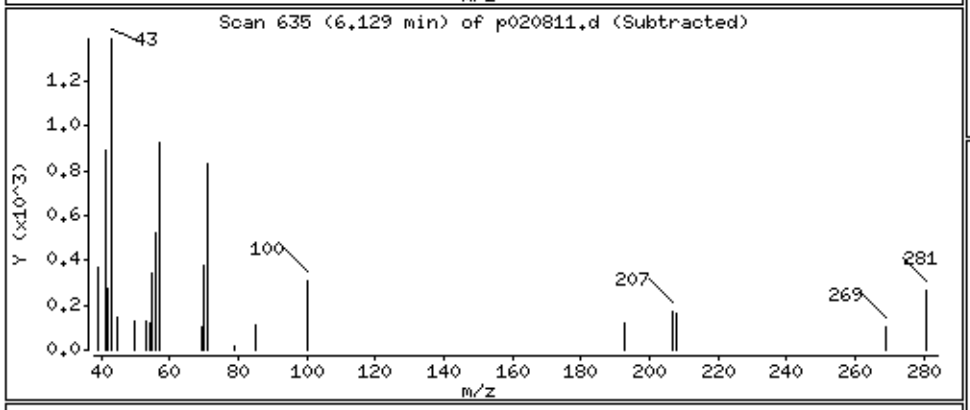
Column phase: RTX-624

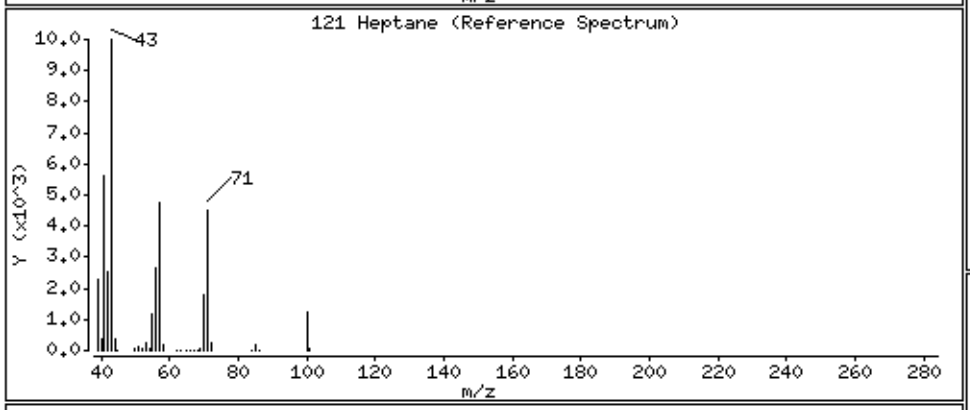
Column diameter: 0.25

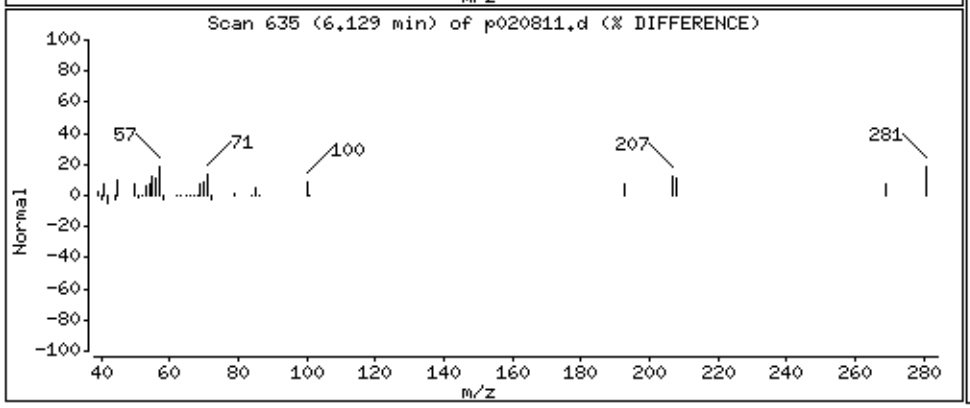
121 Heptane

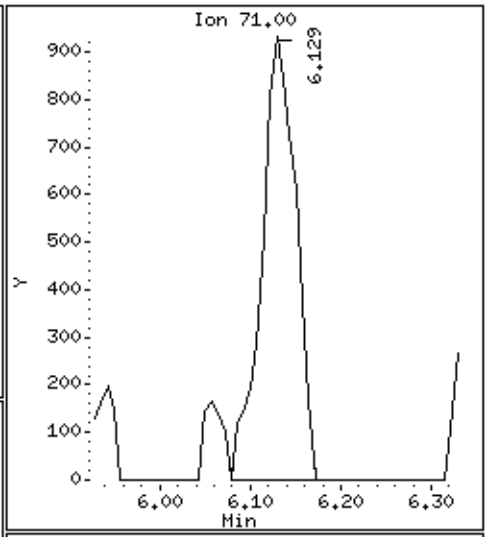
Concentration: 0.7288 PPBV

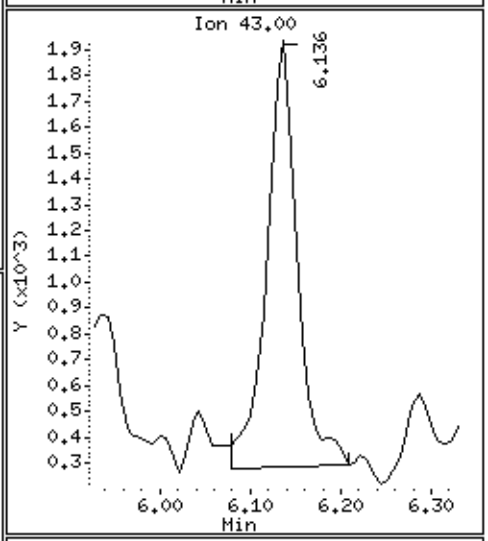


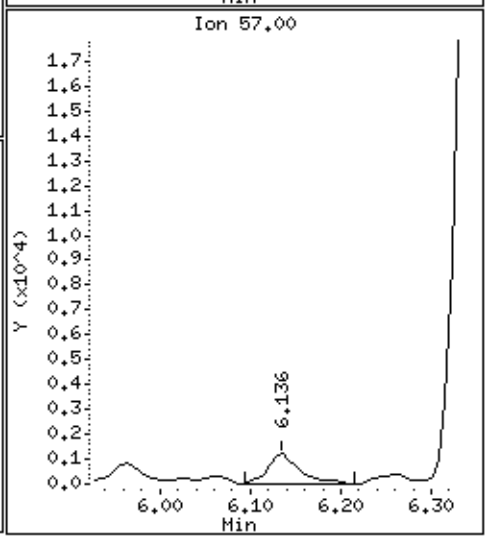












Data File: /chem/msdp.i/08feb16.b/p020811.d

Date : 08-FEB-2016 16:04

Client ID:

Instrument: msdp.i

Sample Info: 200ml 37718

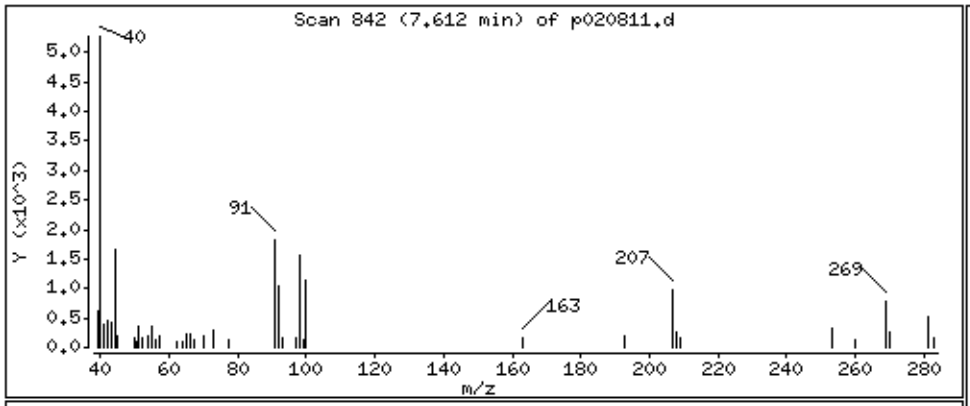
Operator: sab

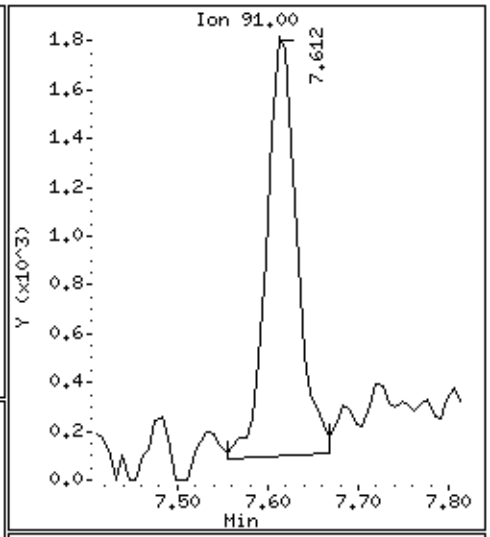
Column phase: RTX-624

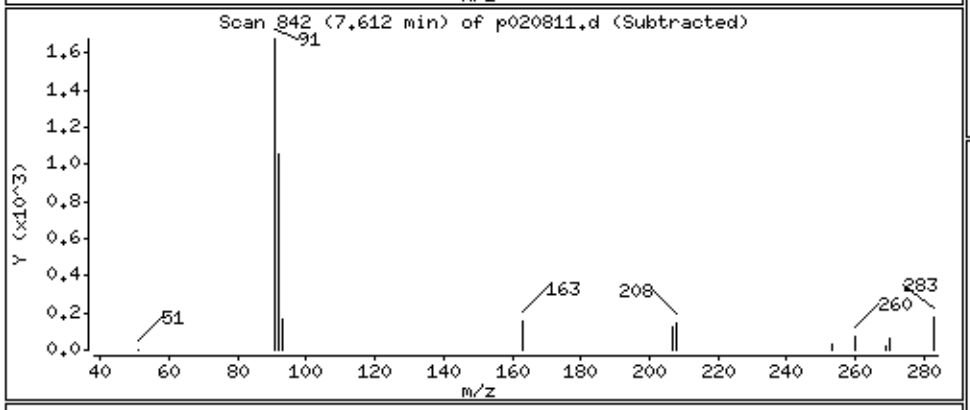
Column diameter: 0.25

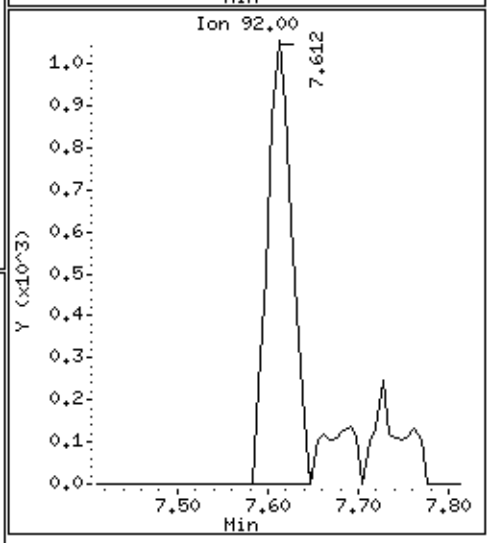
147 Toluene

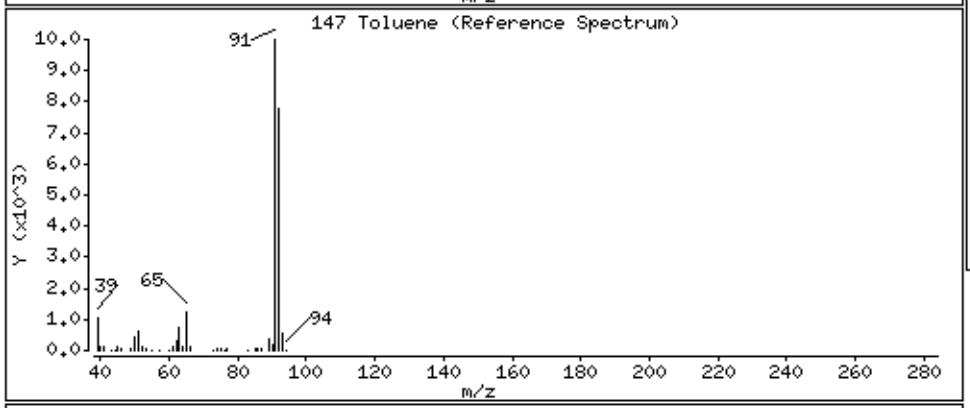
Concentration: 0.3707 PPBV

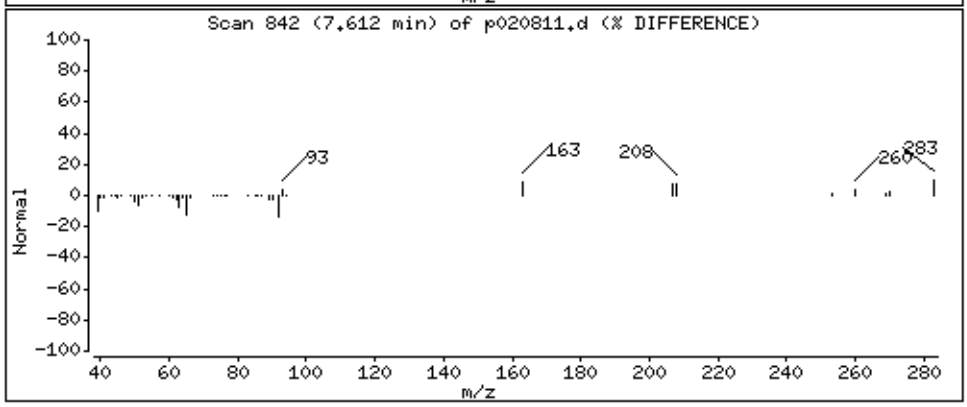












eurofins | Air Toxics

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

Client Sample ID: B42-3SSV013116

Lab ID#: 1602064B-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.61 J	5.6	3.0 J
Freon 11	1.1	0.25 J	6.4	1.4 J
Ethanol	4.5	150	8.6	290
Acetone	11	8.3 J	27	20 J
2-Propanol	4.5	120	11	290
2-Butanone (Methyl Ethyl Ketone)	4.5	2.1 J	13	6.3 J
Tetrahydrofuran	1.1	1.7	3.3	4.9
2,2,4-Trimethylpentane	1.1	0.22 J	5.3	1.0 J
Heptane	1.1	0.61 J	4.6	2.5 J
Toluene	1.1	0.74 J	4.3	2.8 J
m,p-Xylene	1.1	0.67 J	4.9	2.9 J
o-Xylene	1.1	0.29 J	4.9	1.2 J
1,3-Dichlorobenzene	1.1	0.64 J	6.8	3.8 J

eurofins | Air Toxics

Client Sample ID: B42-3SSV013116

Lab ID#: 1602064B-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020810**	**Date of Collection:**	**1/31/16 4:24:00 PM**
Dil. Factor:	**2.27**	**Date of Analysis:**	**2/8/16 03:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.61 J	5.6	3.0 J
Freon 114	1.1	Not Detected	7.9	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	0.25 J	6.4	1.4 J
Ethanol	4.5	150	8.6	290
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	8.3 J	27	20 J
2-Propanol	4.5	120	11	290
Carbon Disulfide	4.5	Not Detected	14	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	2.1 J	13	6.3 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	1.7	3.3	4.9
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
2,2,4-Trimethylpentane	1.1	0.22 J	5.3	1.0 J
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	0.61 J	4.6	2.5 J
Trichloroethene	1.1	Not Detected	6.1	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	0.74 J	4.3	2.8 J
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.7	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

eurofins | Air Toxics

Client Sample ID: B42-3SSV013116

Lab ID#: 1602064B-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020810**	**Date of Collection:**	**1/31/16 4:24:00 PM**
Dil. Factor:	**2.27**	**Date of Analysis:**	**2/8/16 03:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.7	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	0.67 J	4.9	2.9 J
o-Xylene	1.1	0.29 J	4.9	1.2 J
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	0.64 J	6.8	3.8 J
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	34	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020810.d
Lab Smp Id: 1602064B-18A
Inj Date : 08-FEB-2016 15:37
Operator : sab Inst ID: msdp.i
Smp Info : 200ml 36483
Misc Info : 3.3 Hg->15 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 13-Feb-2016 11:45 dbailey Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 8
Dil Factor: 2.27000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.27000	Dilution Factor

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	144988	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	114762			49.06- 109.06	79.15
5.456	5.449 (1.000)	49	217929			124.20- 184.20	150.31
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	585581	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	84242			0.00- 44.57	14.39
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.779 (1.000)	117	562941	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	290407			20.36- 80.36	51.59
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	203897	23.8305	23.830	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	99203			26.68- 86.68	48.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.554	7.555 (1.191)	98	586060	25.0497	25.050	80.00- 120.00	100.00
7.554	7.555 (1.191)	70	63444			0.00- 40.62	10.83
7.554	7.555 (1.191)	100	382765			36.74- 96.74	65.31
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	429883	23.6780	23.678	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	422208			65.95- 125.95	98.21
9.761	9.761 (1.111)	176	414111			65.80- 125.80	96.33
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	4317	0.26765	0.6076	80.00- 120.00	100.00(a)
1.521	1.507 (0.279)	87	1131			1.76- 61.76	26.21
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	1824	0.10851	0.2463	80.00- 120.00	100.00(a)
2.576	2.569 (0.472)	103	1216			34.50- 94.50	66.70
42 Ethanol					CAS #: 64-17-5		
2.891	2.877 (0.530)	45	186202	67.5114	153.25	80.00- 120.00	100.00
2.884	2.877 (0.529)	43	36929			0.00- 50.77	19.83
2.891	2.877 (0.530)	46	69822			8.68- 68.68	37.50
52 Acetone					CAS #: 67-64-1		
3.400	3.386 (0.623)	58	14025	3.66922	8.329	80.00- 120.00	100.00(a)
3.393	3.386 (0.622)	43	48202			323.05- 383.05	343.67
57 2-Propanol					CAS #: 67-63-0		
3.558	3.550 (0.652)	45	849698	52.1041	118.28	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	167043			0.00- 49.72	19.66
3.558	3.550 (0.652)	59	29446			0.00- 33.36	3.47
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	2940	0.93750	2.128	80.00- 120.00	100.00(a)
5.255	5.248 (0.963)	43	18210			452.15- 512.15	619.22
5.248	5.248 (0.962)	57	1655			9.54- 69.54	56.28
99 Tetrahydrofuran					CAS #: 109-99-9		
5.456	5.441 (1.000)	42	6154	0.73372	1.666	80.00- 120.00	100.00
5.449	5.441 (0.999)	71	2872			2.09- 62.09	46.67
5.449	5.441 (0.999)	72	1552			3.61- 63.61	25.22
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	3937	0.09889	0.2245	80.00- 120.00	100.00(a)
5.957	5.964 (1.092)	56	1412			1.10- 61.10	35.86
5.950	5.964 (1.091)	41	295			0.00- 57.08	7.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
121 Heptane					CAS #: 142-82-5		
6.136	6.129 (0.967)	71	2070	0.26832	0.6091	80.00- 120.00	100.00(a)
6.129	6.129 (0.966)	43	4643			172.43- 232.43	224.23
6.136	6.129 (0.967)	57	3237			85.51- 145.51	156.33
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	8116	0.32526	0.7383	80.00- 120.00	100.00(a)
7.612	7.612 (1.200)	92	3765			27.38- 87.38	46.39
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.959 (1.020)	106	3985	0.29411	0.6676	80.00- 120.00	100.00(a)
8.958	8.959 (1.020)	91	7517			166.59- 226.59	188.60
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.058)	106	1649	0.12678	0.2878	80.00- 120.00	100.00(a)
9.295	9.295 (1.058)	91	3734			176.08- 236.08	226.44
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.671 (1.214)	146	7456	0.28170	0.6394	80.00- 120.00	100.00(a)
10.670	10.671 (1.214)	148	4949			34.23- 94.23	66.38
10.663	10.671 (1.214)	111	3333			7.40- 67.40	44.71

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: p020810.d
Lab Smp Id: 1602064B-18A
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 3.3 Hg->15 psi

Calibration Date: 08-FEB-2016
Calibration Time: 10:35

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	144988	-4.92
123 1,4-Difluorobenze	608067	364840	851294	585581	-3.70
163 Chlorobenzene-d5	577195	346317	808073	562941	-2.47

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	8.79	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: 15-Feb-2016 13:50

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1602064B-18A
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 3.3 Hg->15 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	23.830	95.32	70-130
$ 146 Toluene-d8	25.000	25.050	100.20	70-130
$ 177 4-Bromofluorobenze	25.000	23.678	94.71	70-130

Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

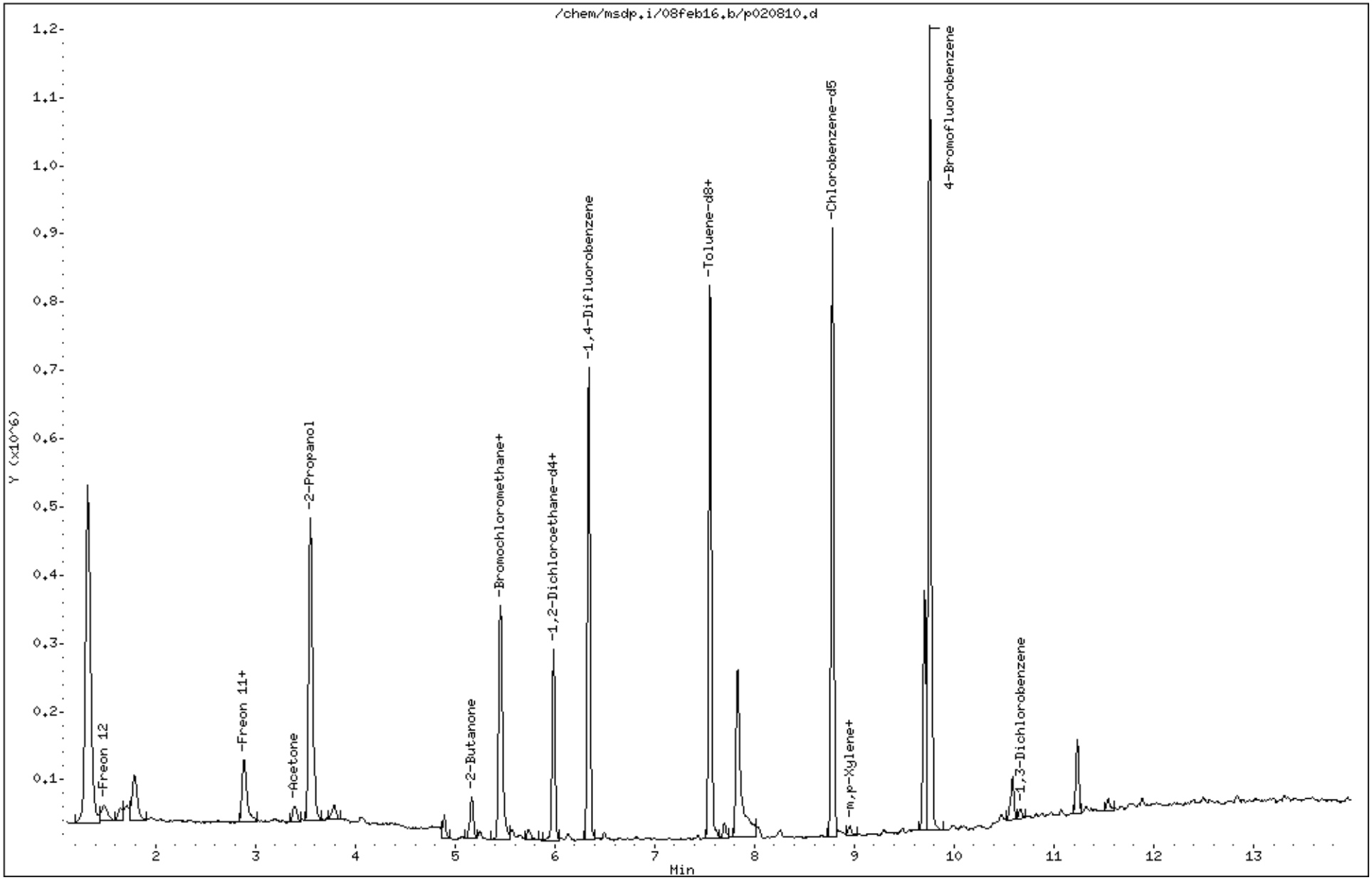
Sample Info: 200ml 36483

Column phase: RTX-624

Instrument: msdp.i

Operator: sab

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

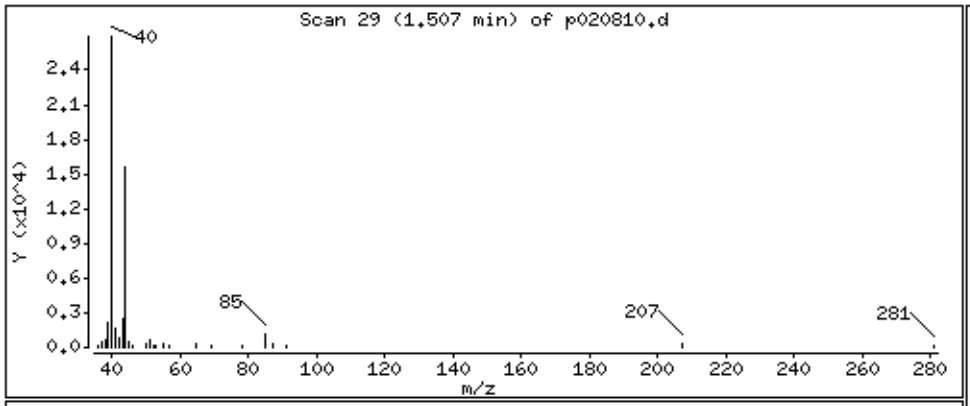
Operator: sab

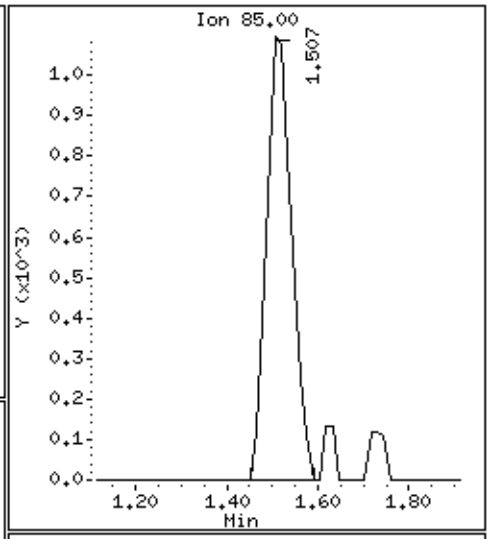
Column phase: RTX-624

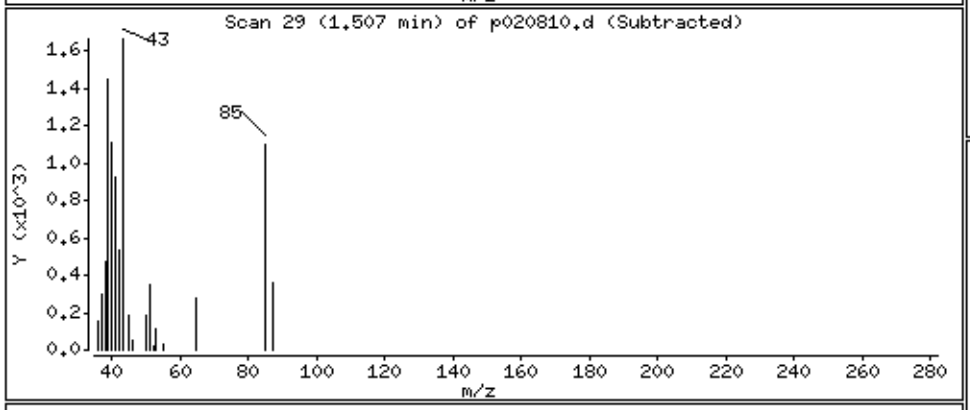
Column diameter: 0.25

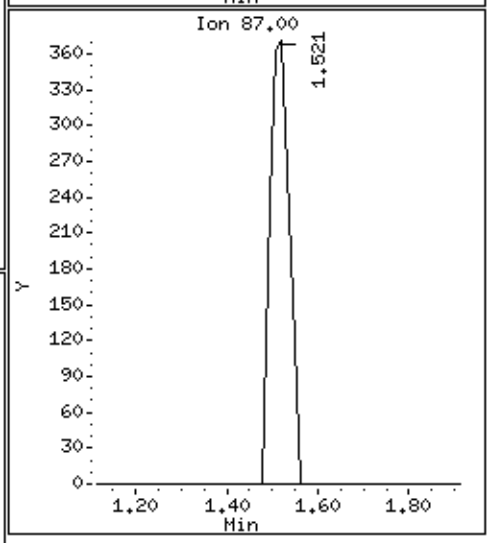
11 Freon 12

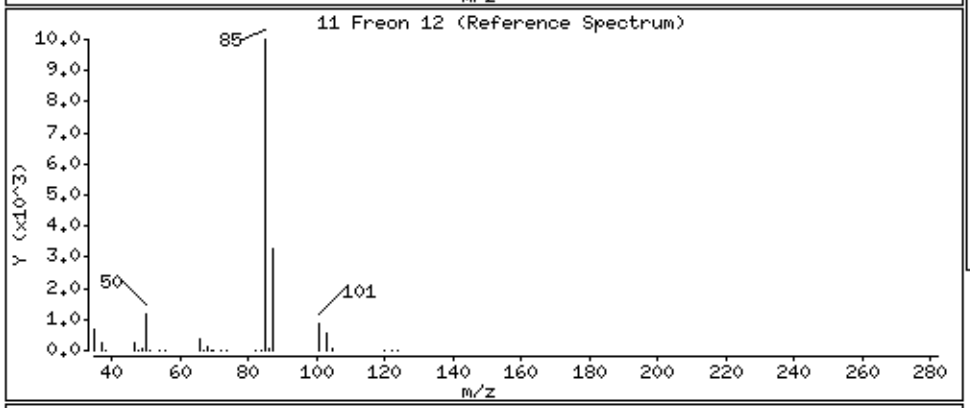
Concentration: 0.6076 PPBV

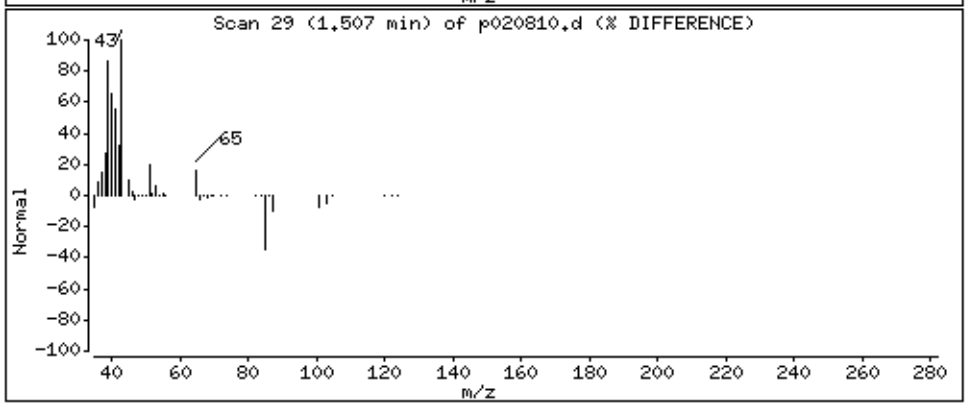












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

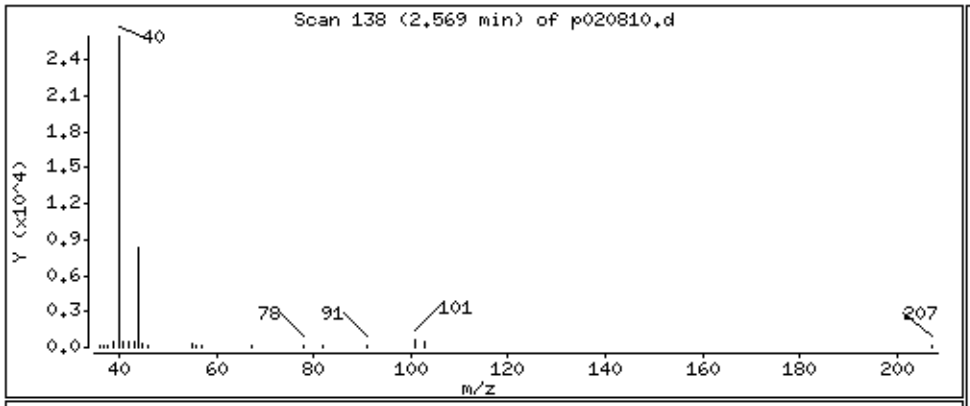
Operator: sab

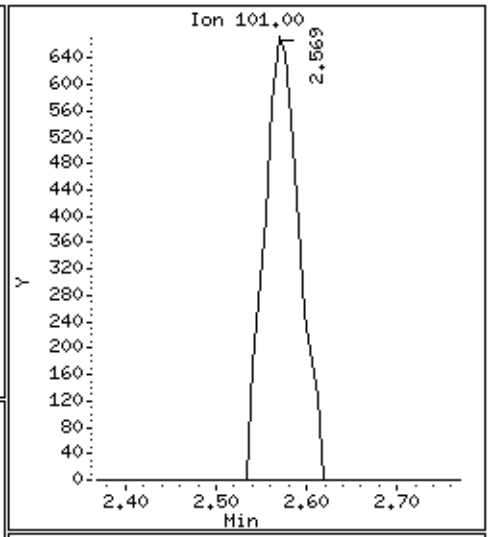
Column phase: RTX-624

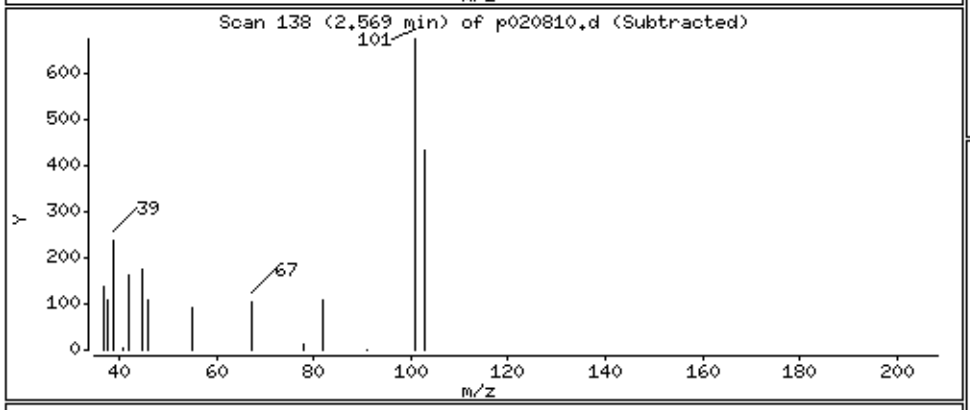
Column diameter: 0.25

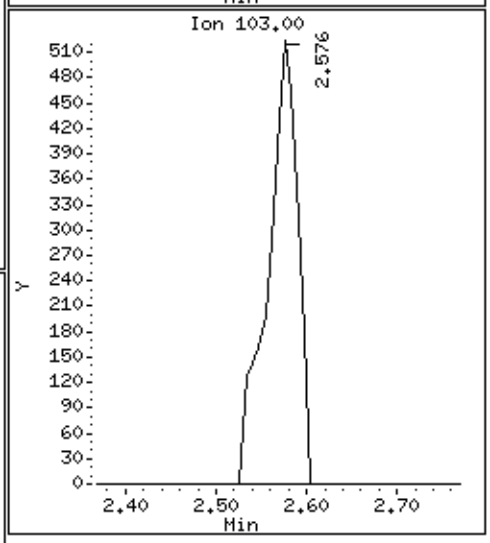
35 Freon 11

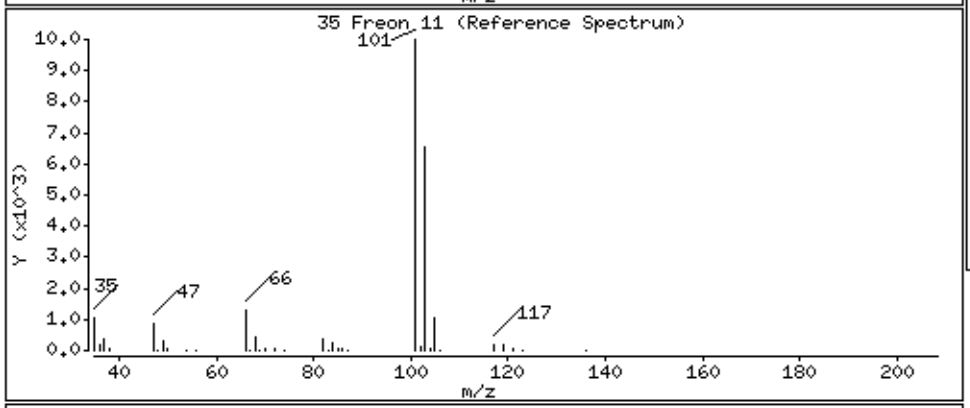
Concentration: 0.2463 PPBV

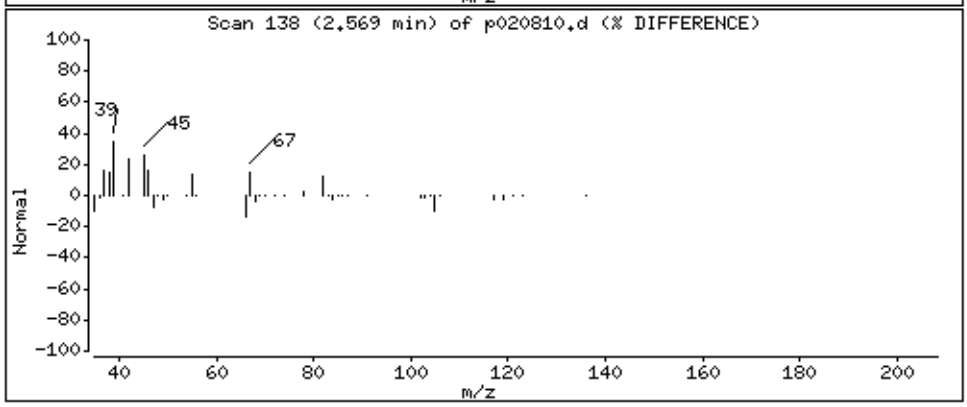












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

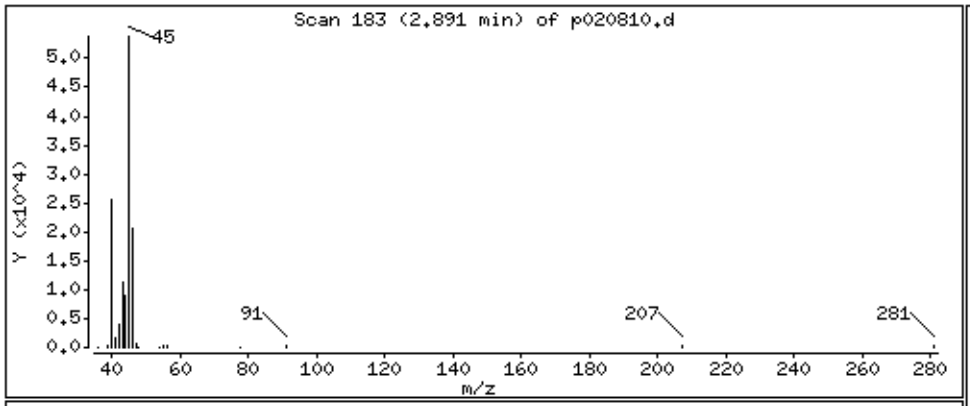
Operator: sab

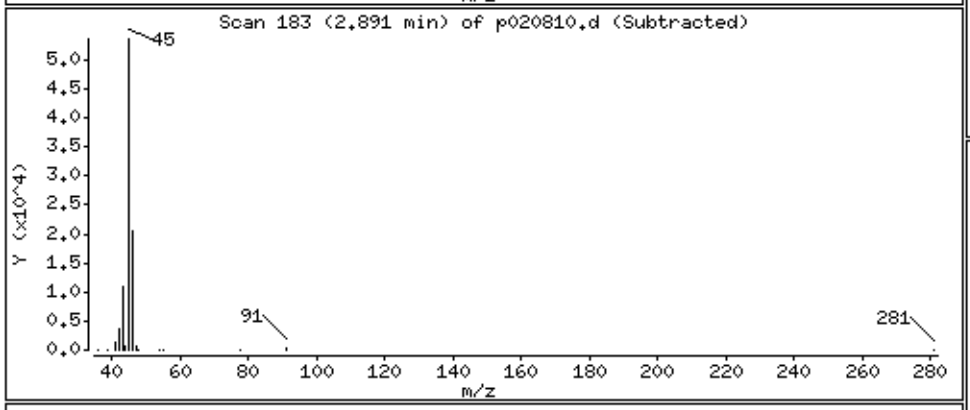
Column phase: RTX-624

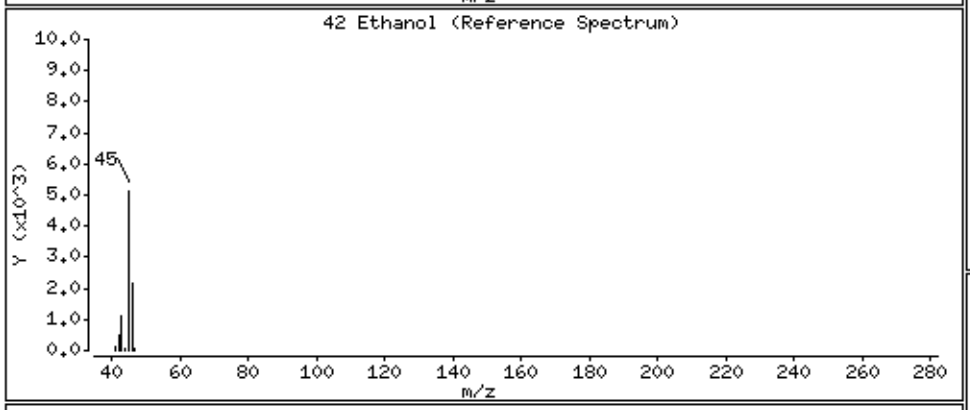
Column diameter: 0.25

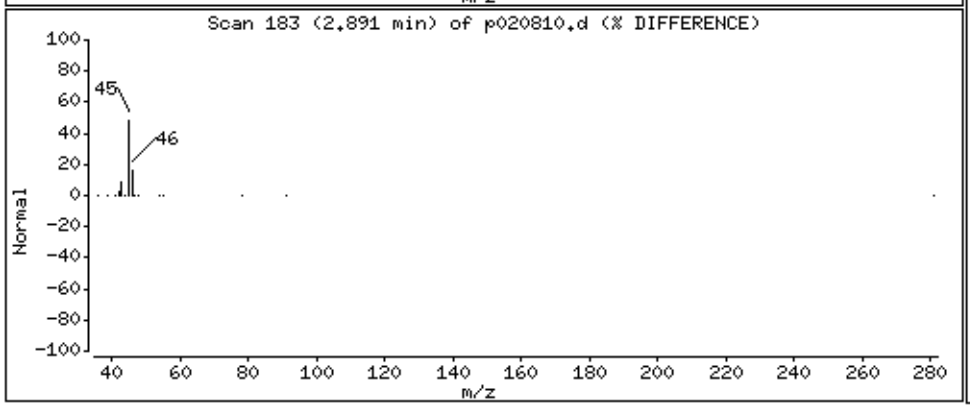
42 Ethanol

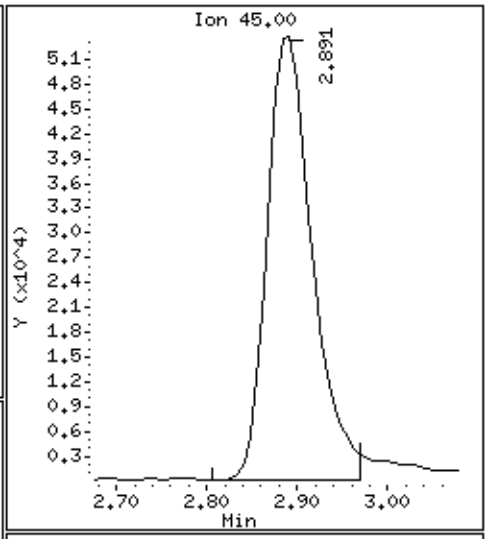
Concentration: 153.25 PPBV

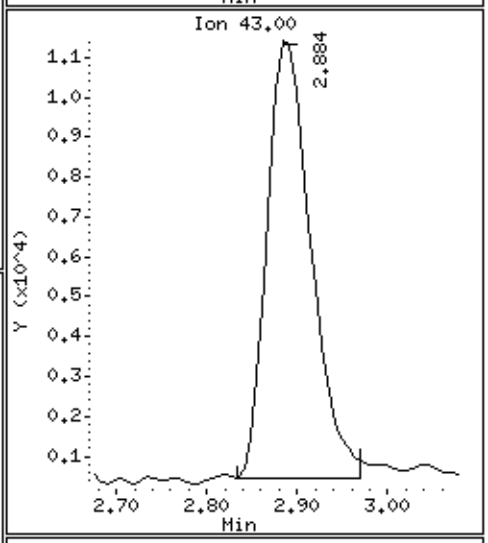


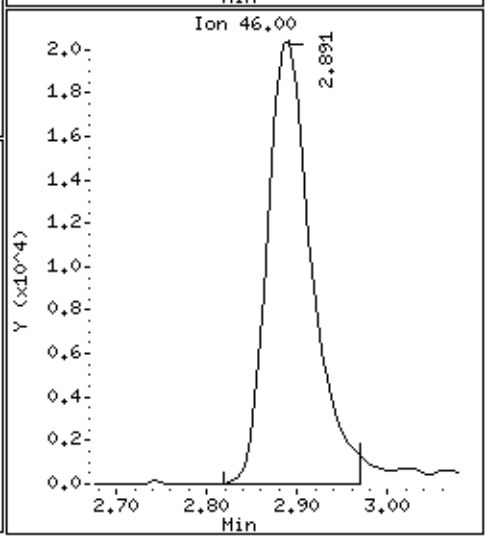












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

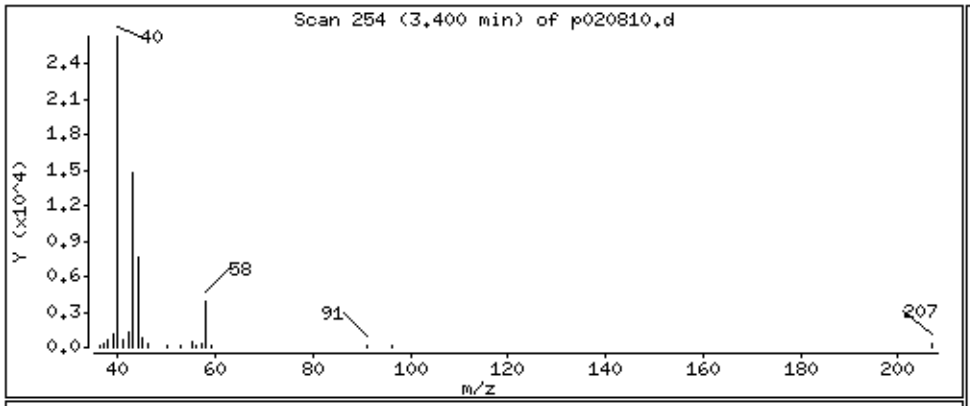
Operator: sab

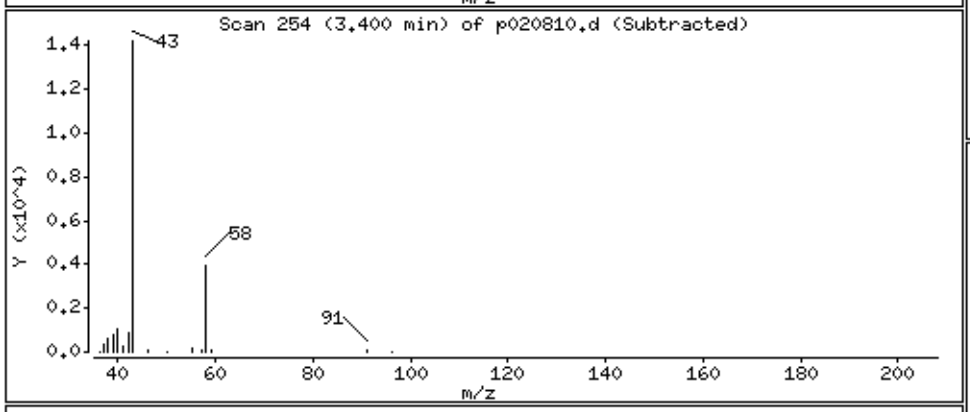
Column phase: RTX-624

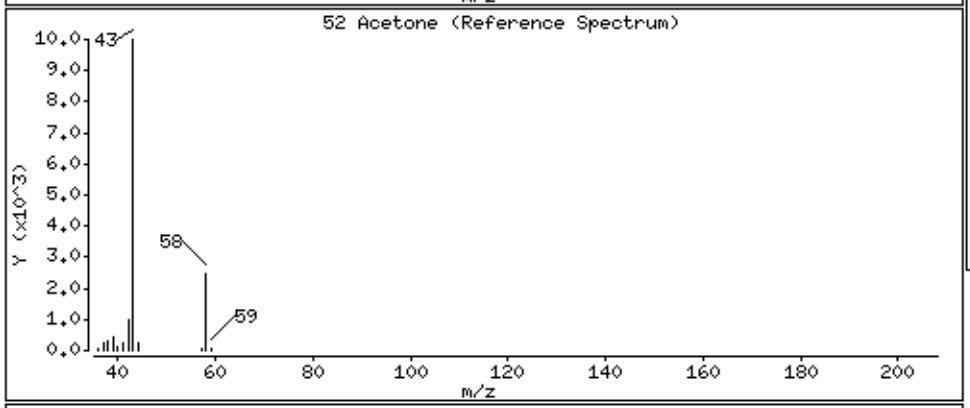
Column diameter: 0.25

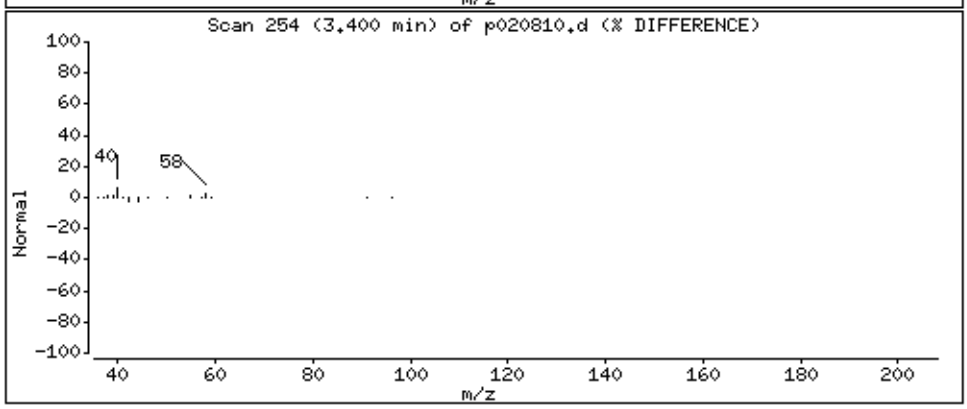
52 Acetone

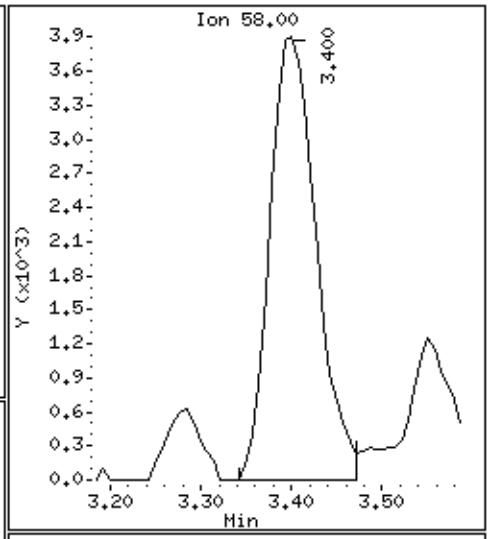
Concentration: 8.329 PPBV

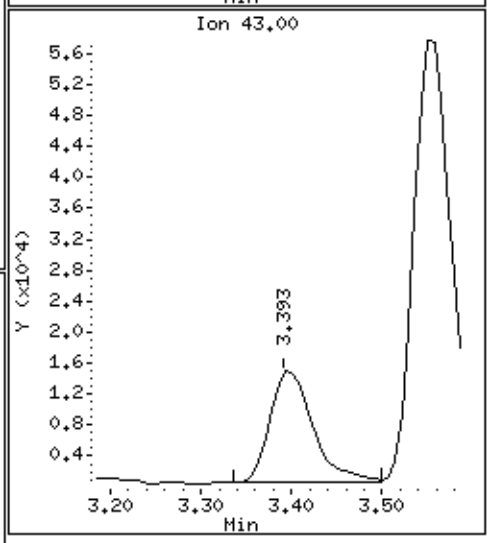












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

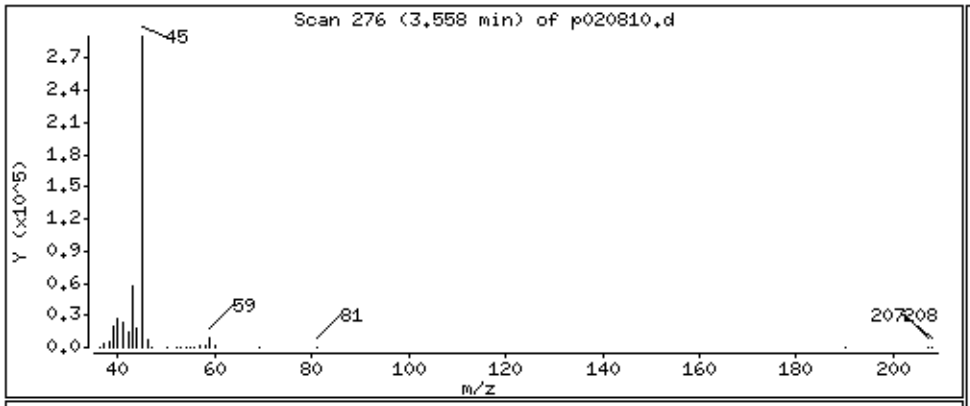
Operator: sab

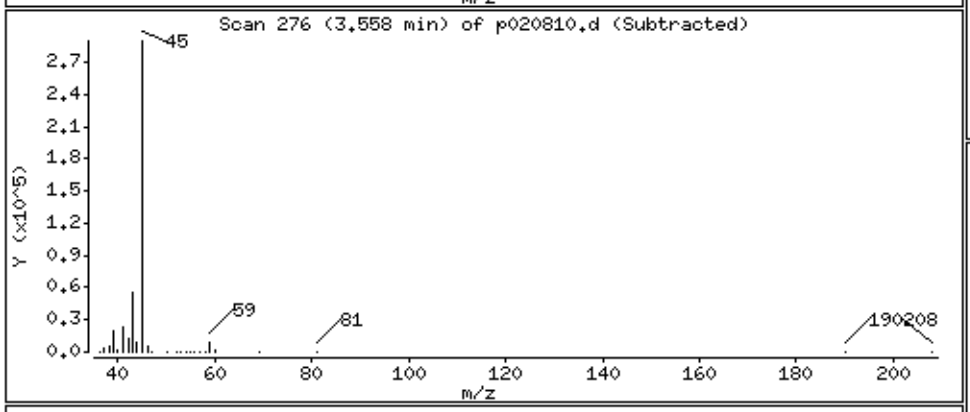
Column phase: RTX-624

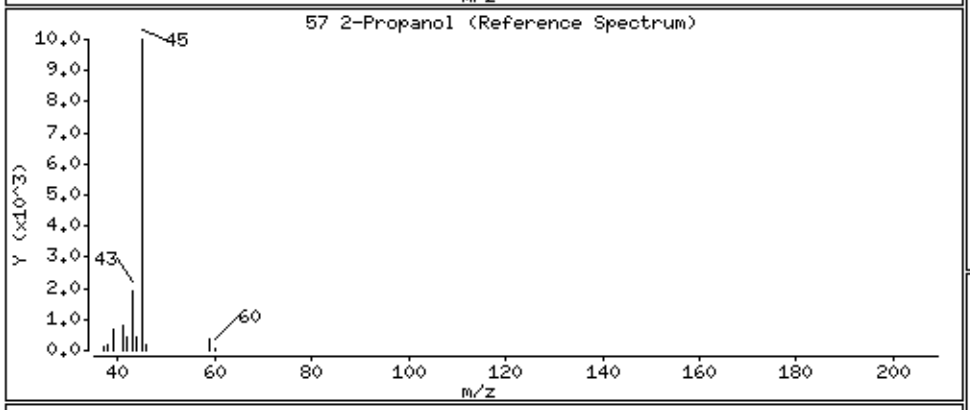
Column diameter: 0.25

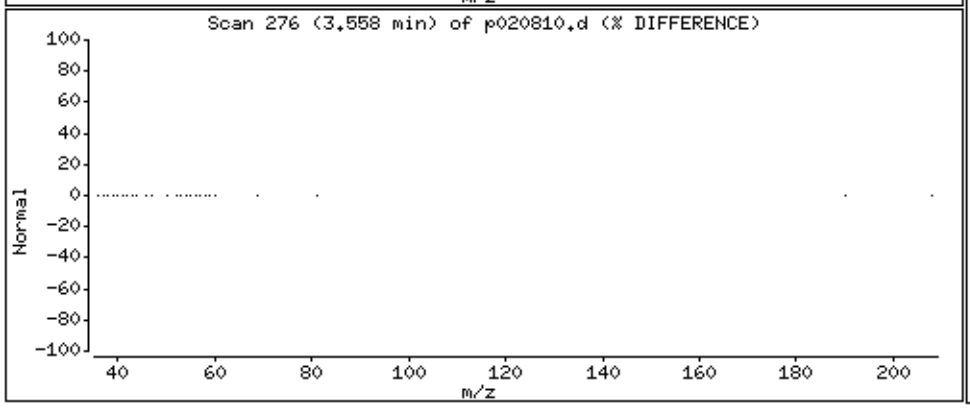
57 2-Propanol

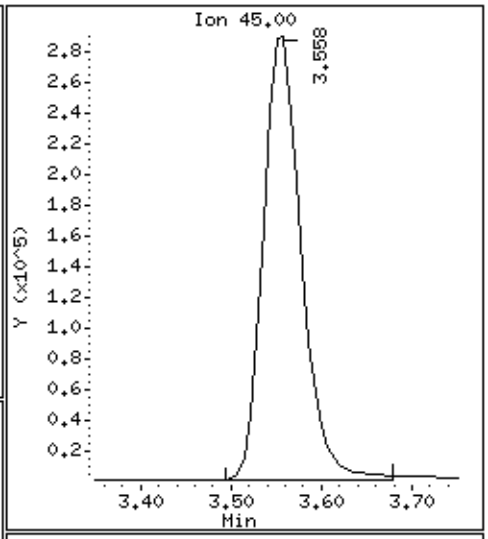
Concentration: 118.28 PPBV

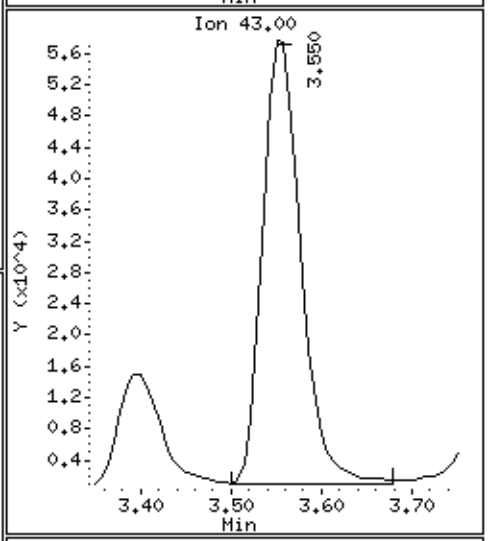


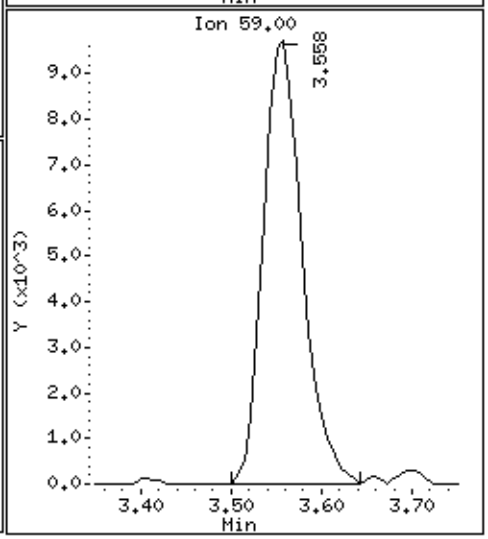












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

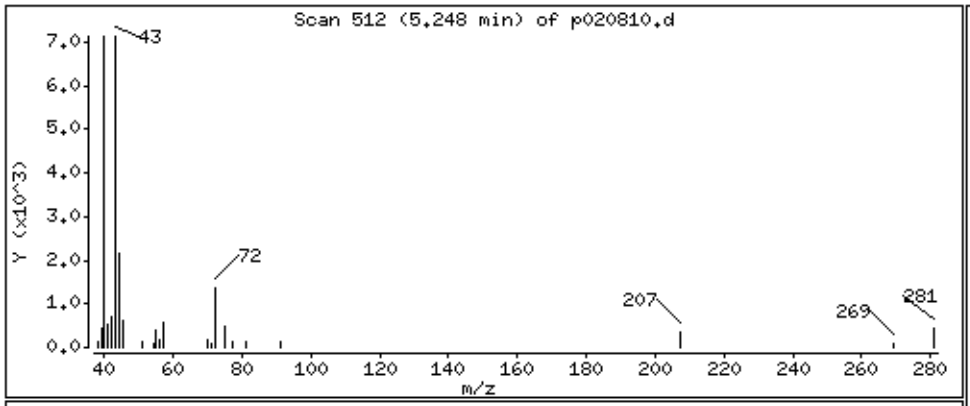
Operator: sab

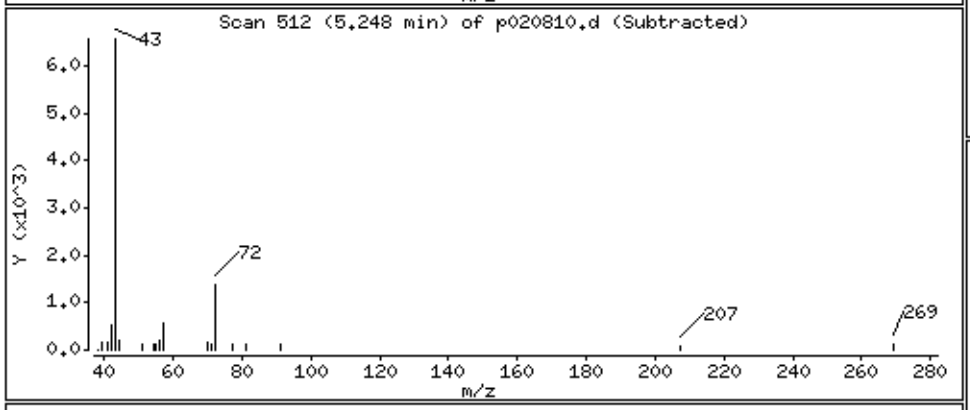
Column phase: RTX-624

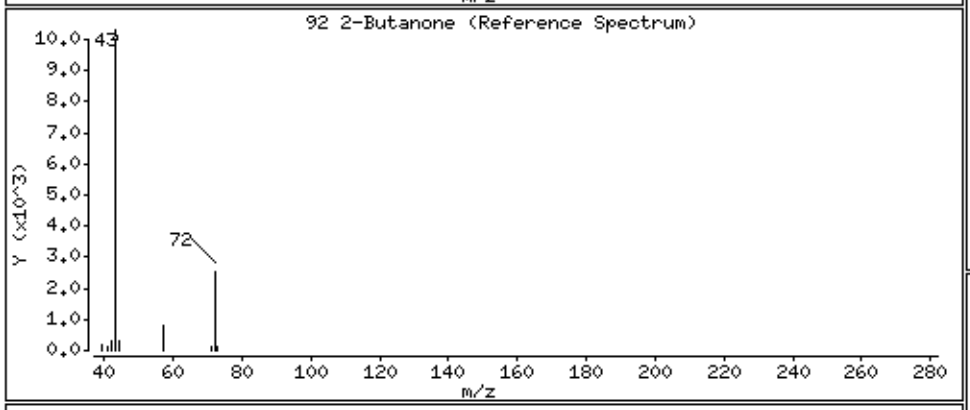
Column diameter: 0.25

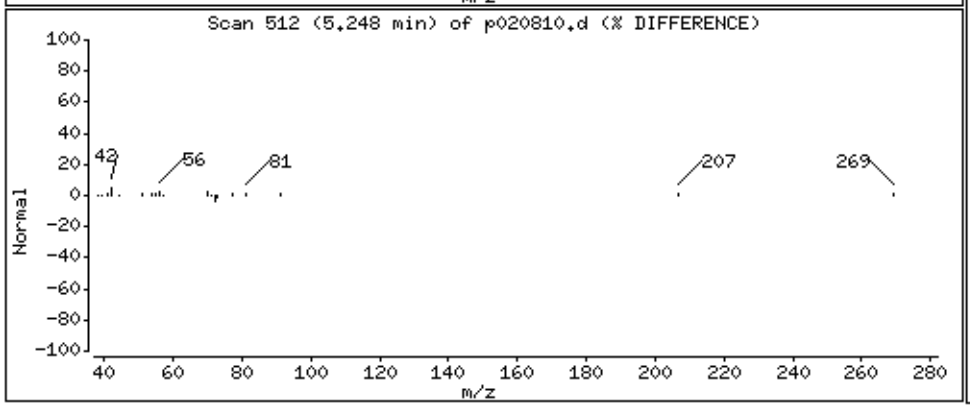
92 2-Butanone

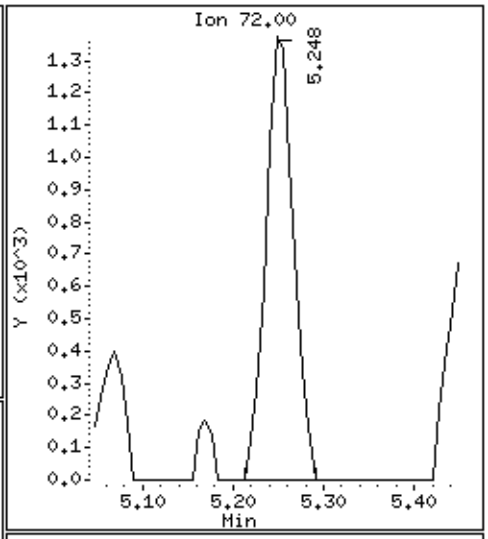
Concentration: 2.128 PPBV

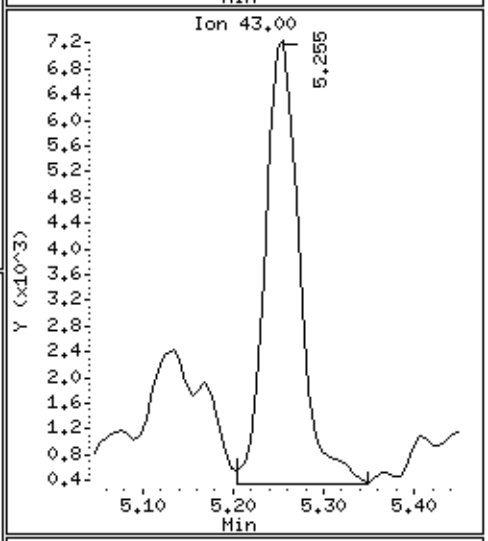


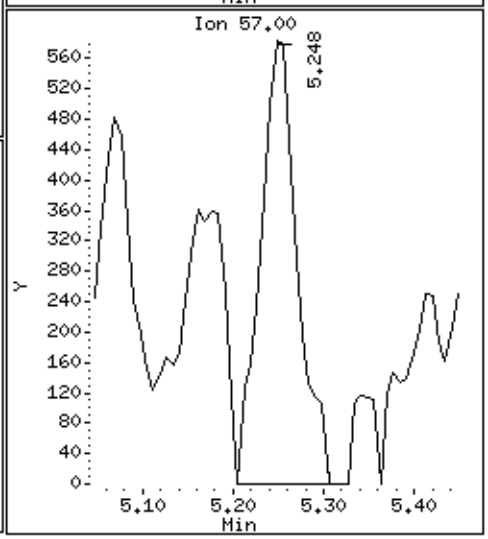












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

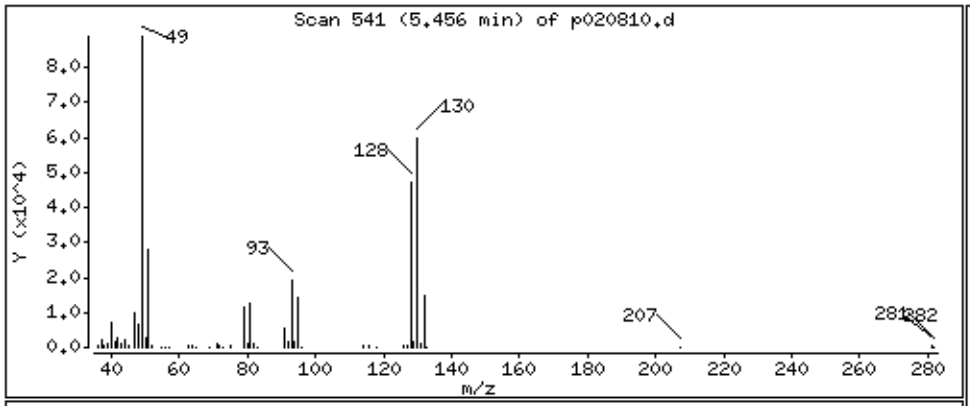
Operator: sab

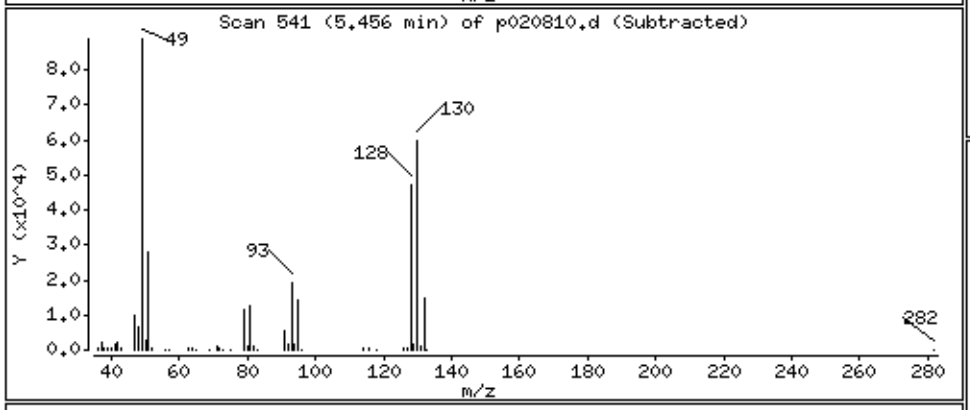
Column phase: RTX-624

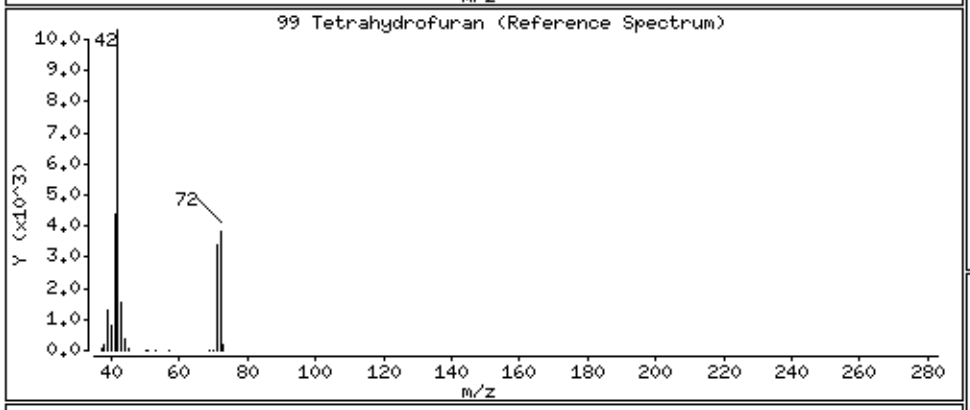
Column diameter: 0.25

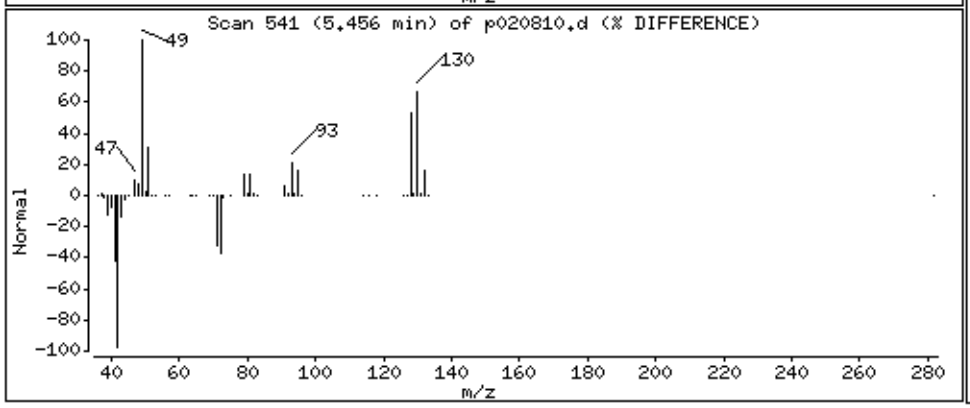
99 Tetrahydrofuran

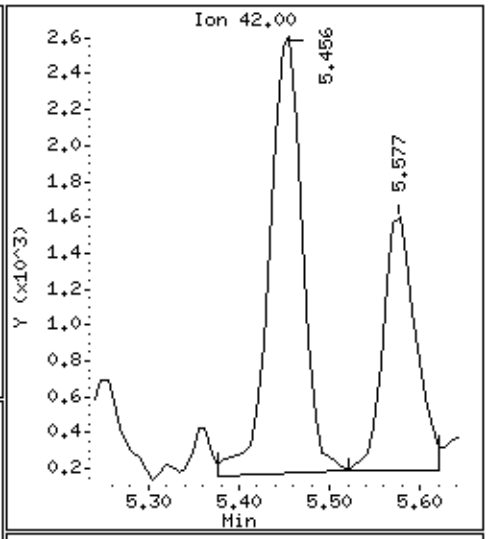
Concentration: 1.666 PPBV

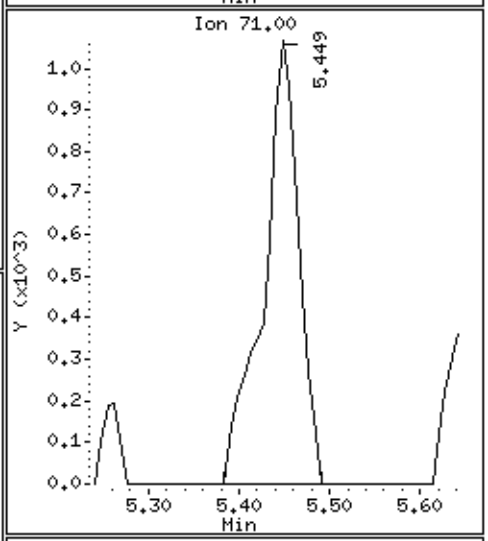


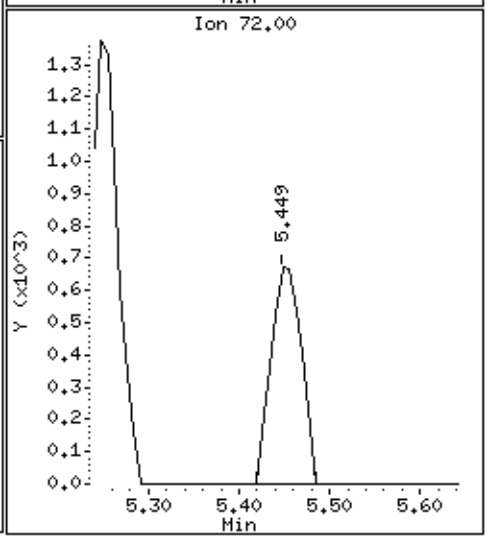












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

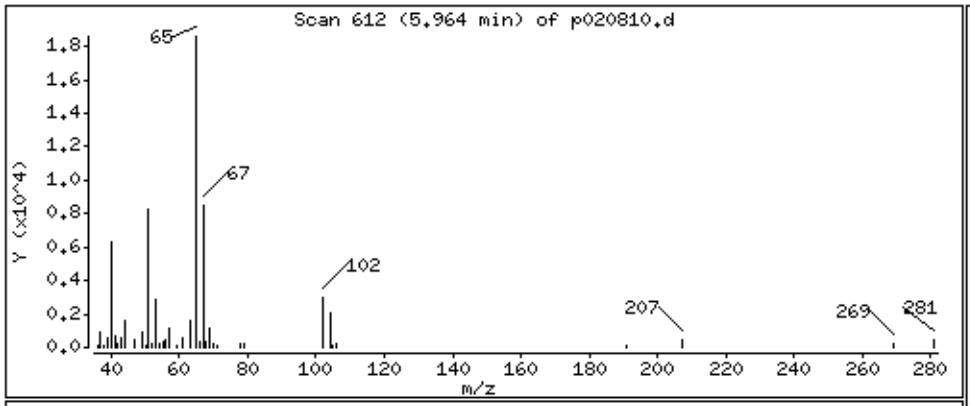
Operator: sab

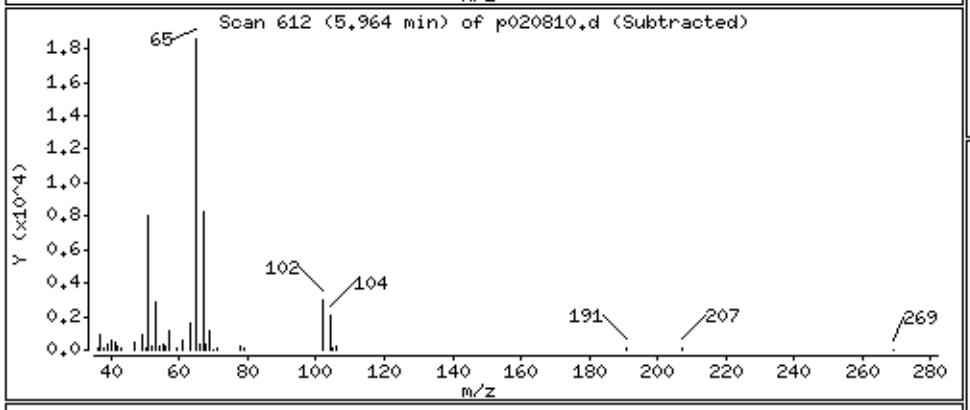
Column phase: RTX-624

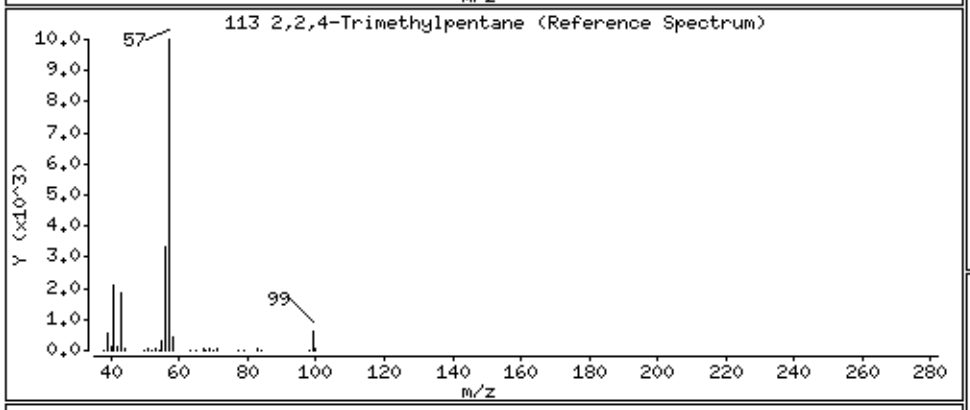
Column diameter: 0.25

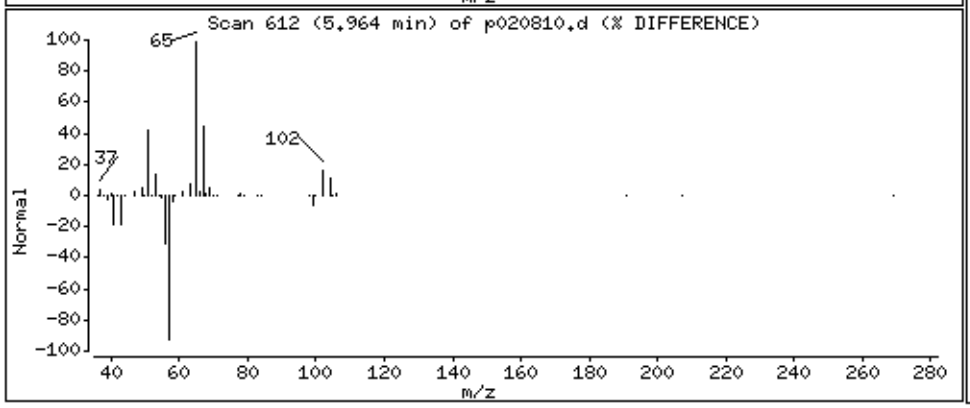
113 2,2,4-Trimethylpentane

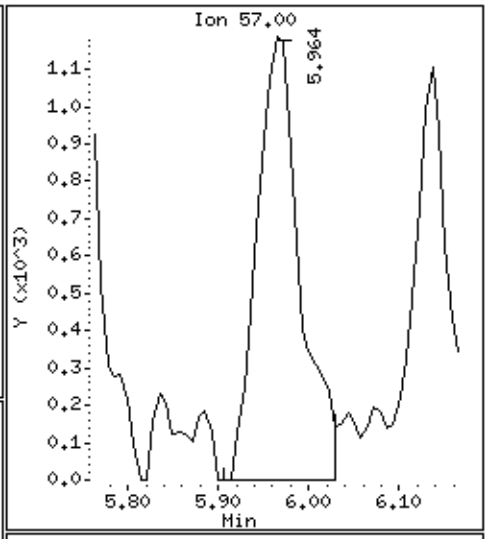
Concentration: 0.2245 PPBV

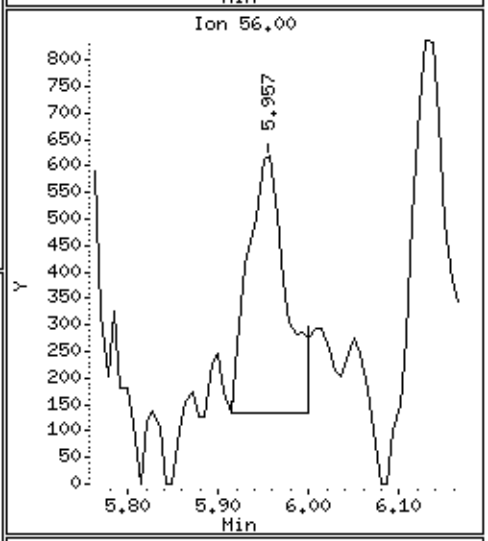


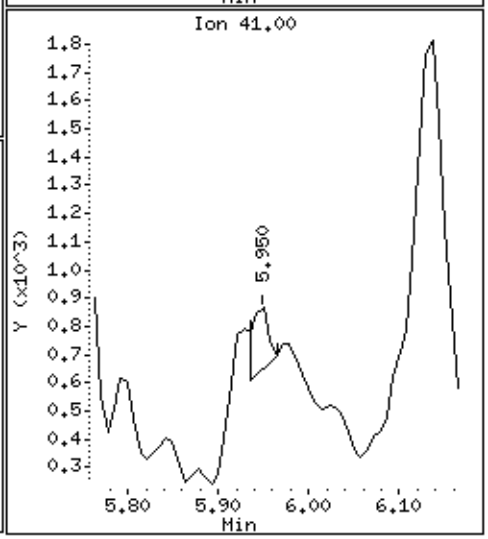












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

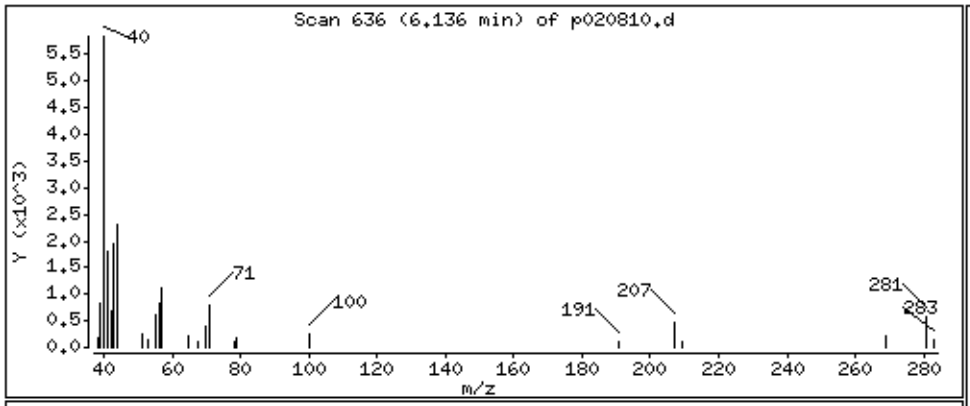
Operator: sab

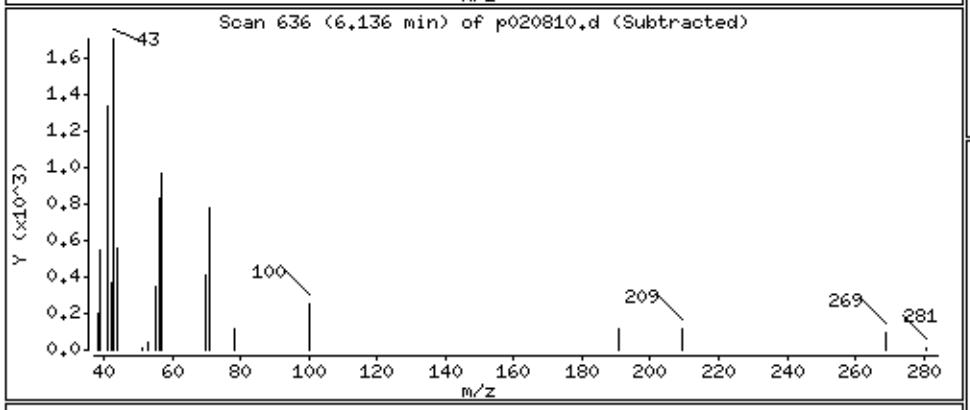
Column phase: RTX-624

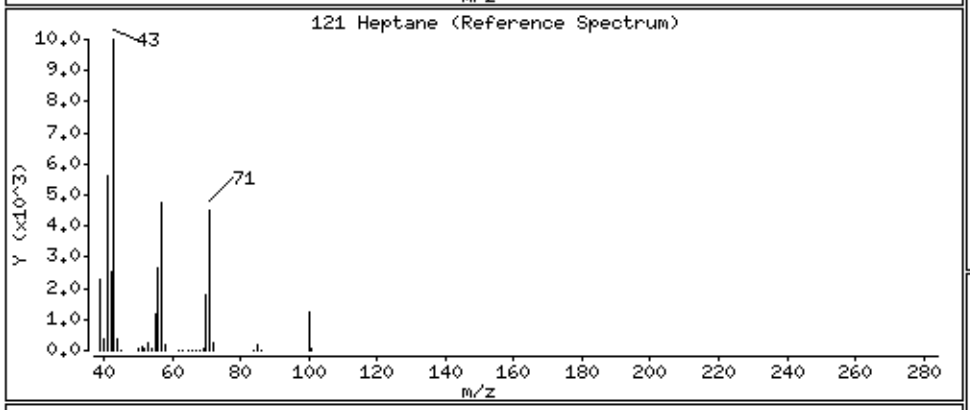
Column diameter: 0.25

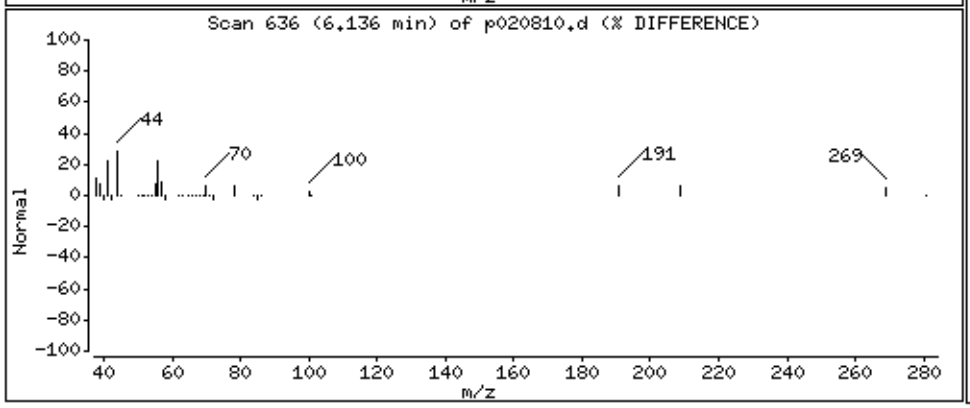
121 Heptane

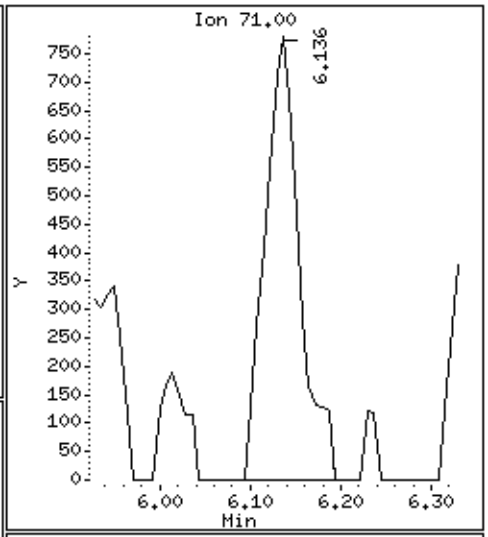
Concentration: 0.6091 PPBV

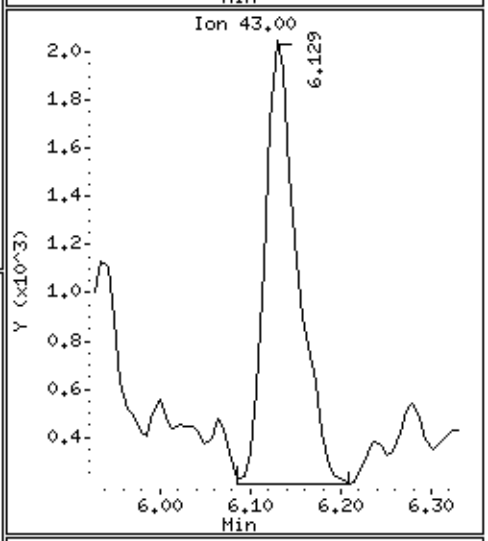


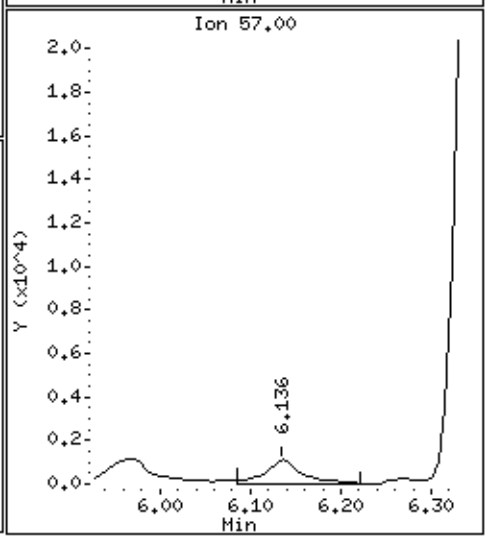












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

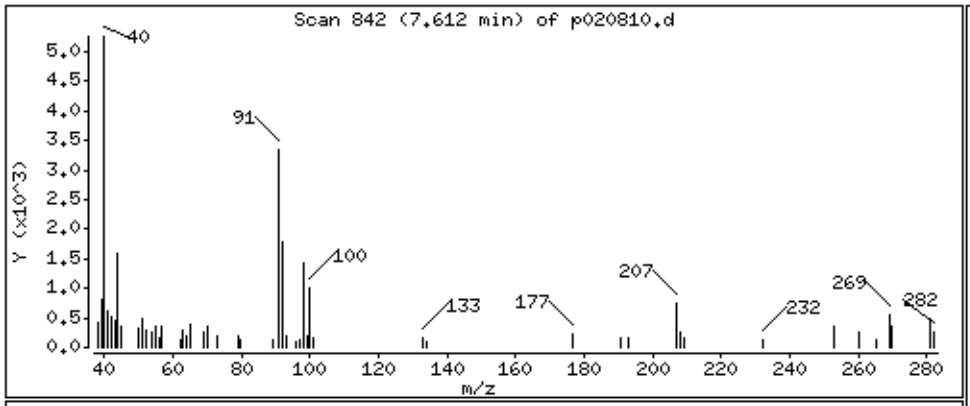
Operator: sab

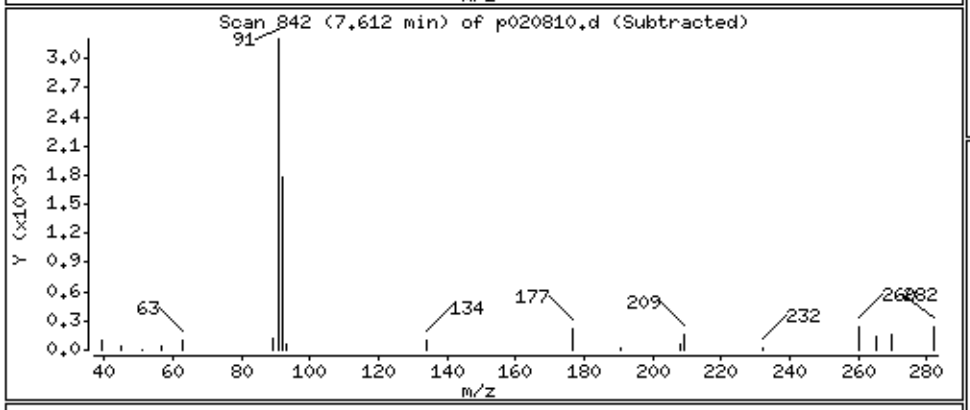
Column phase: RTX-624

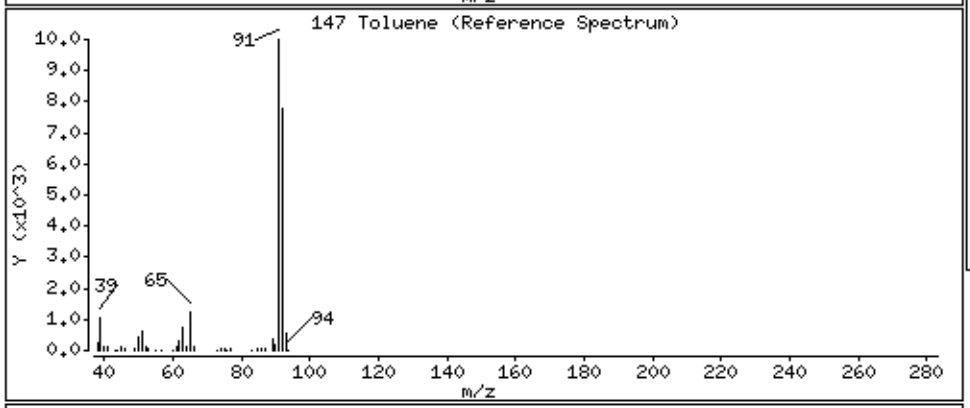
Column diameter: 0.25

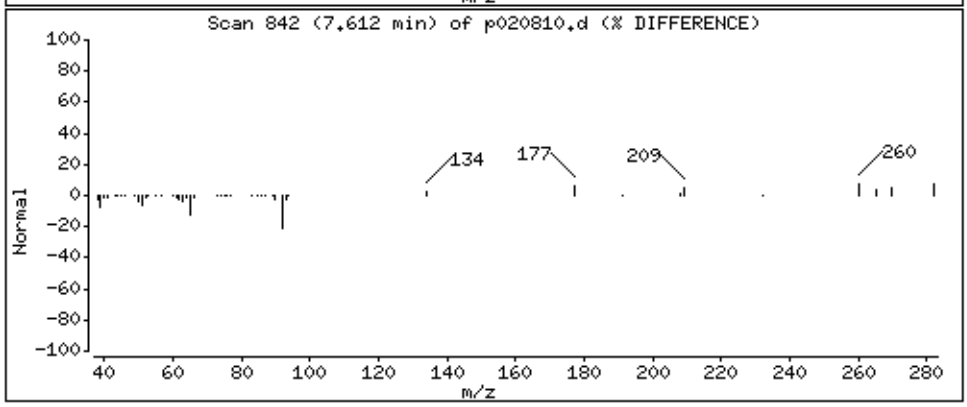
147 Toluene

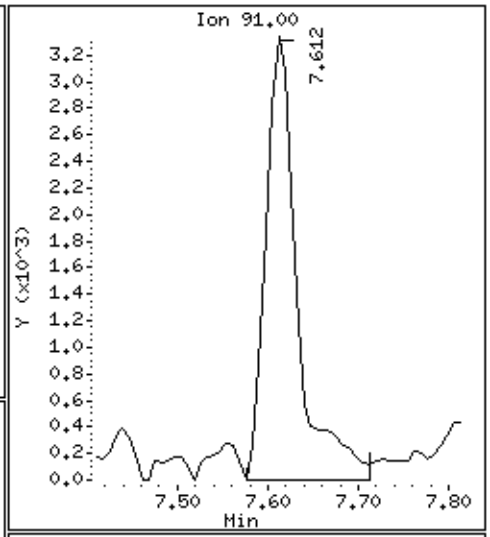
Concentration: 0.7383 PPBV

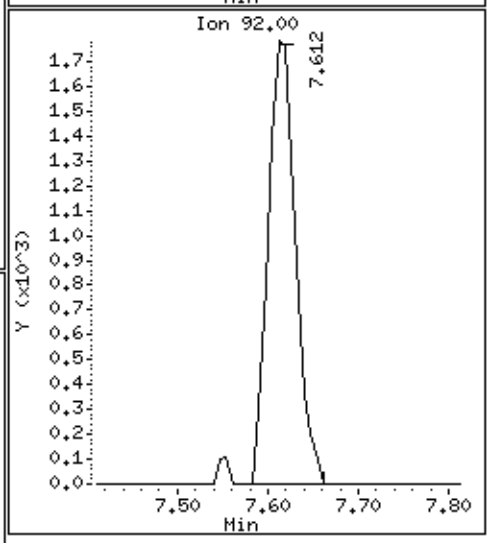












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

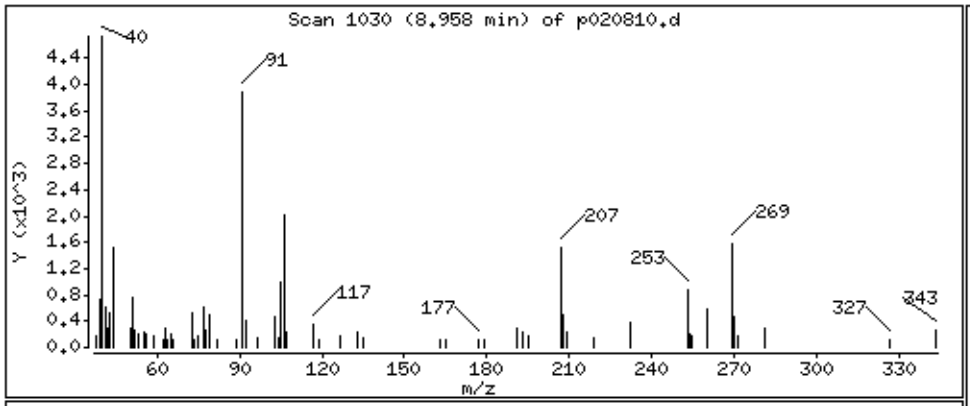
Operator: sab

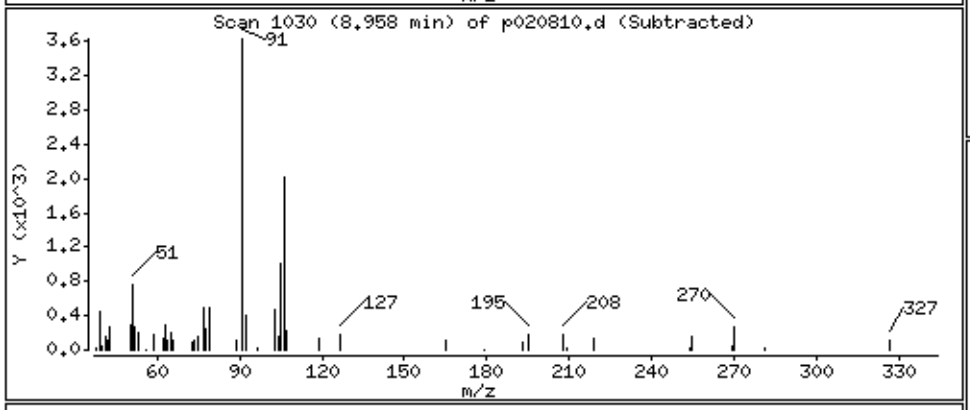
Column phase: RTX-624

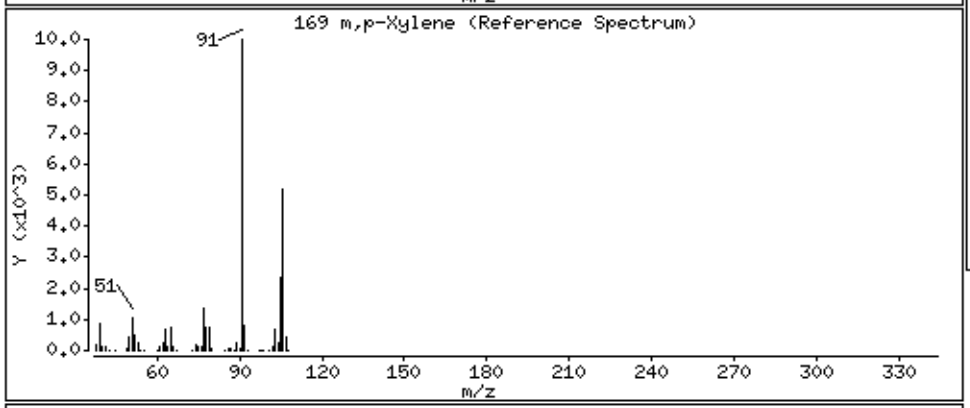
Column diameter: 0.25

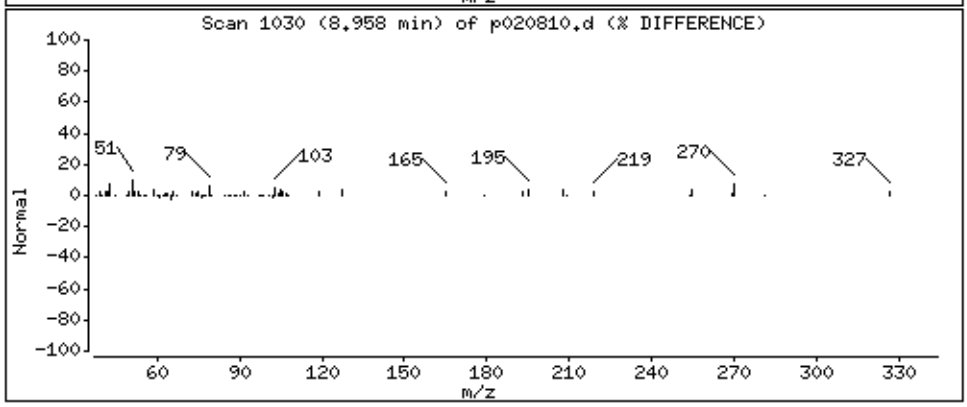
169 m,p-Xylene

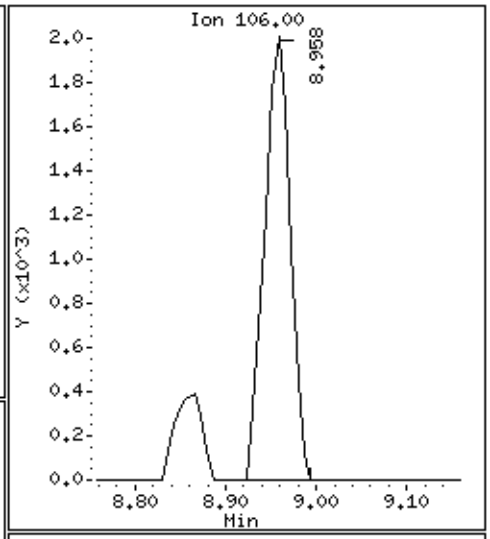
Concentration: 0.6676 PPBV

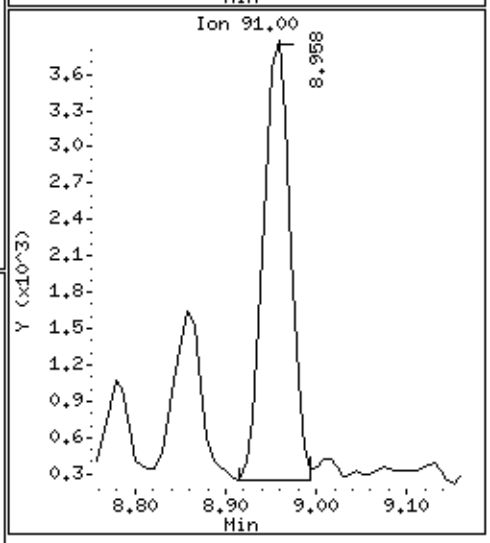












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

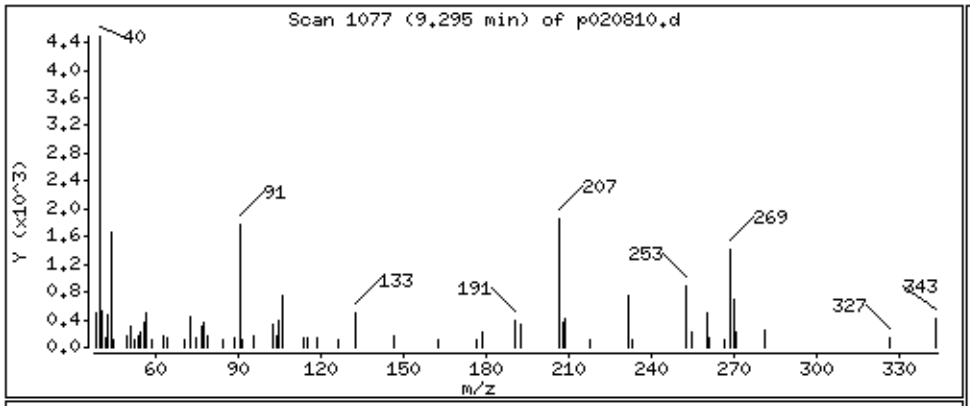
Operator: sab

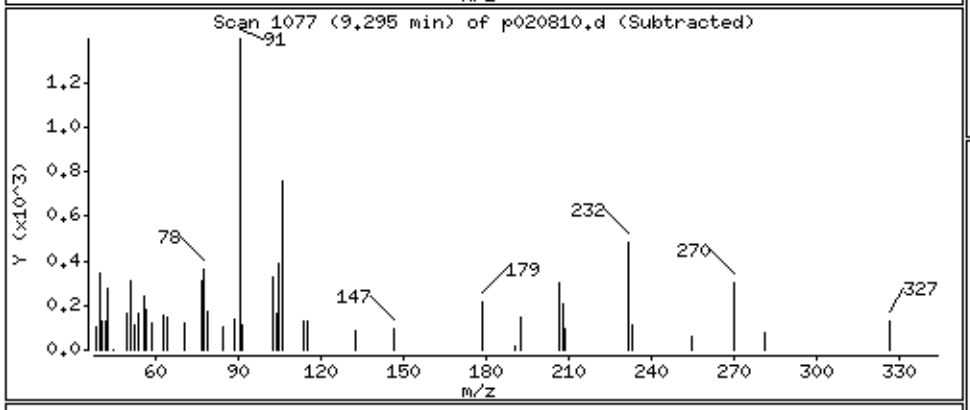
Column phase: RTX-624

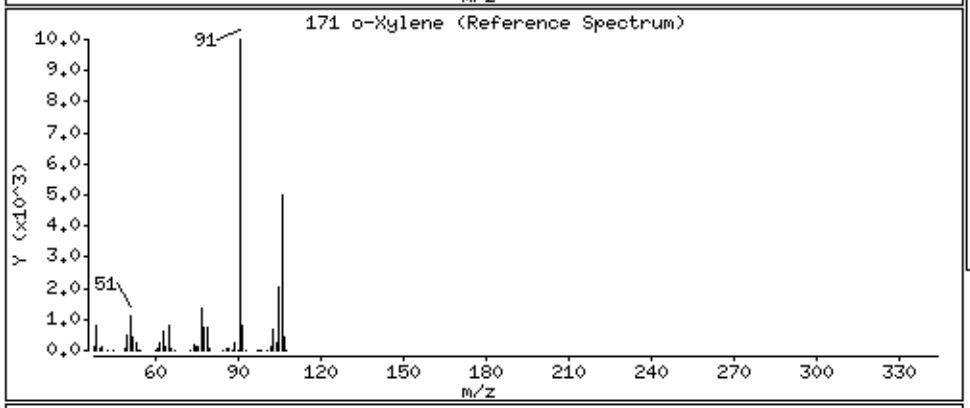
Column diameter: 0.25

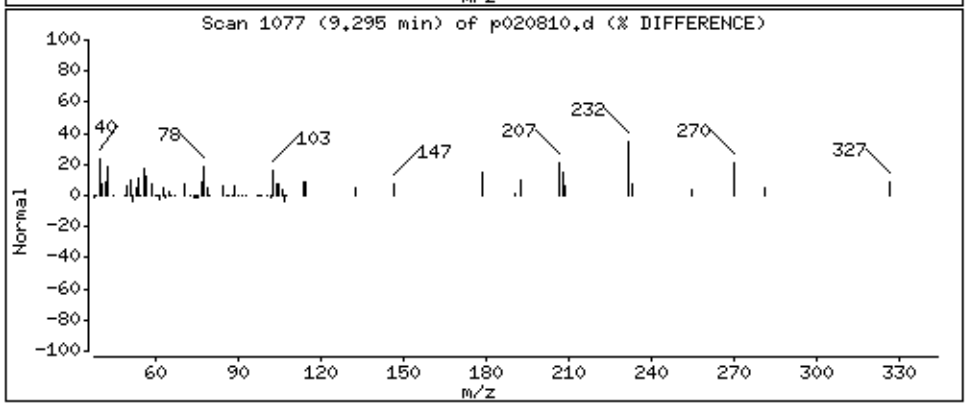
171 o-Xylene

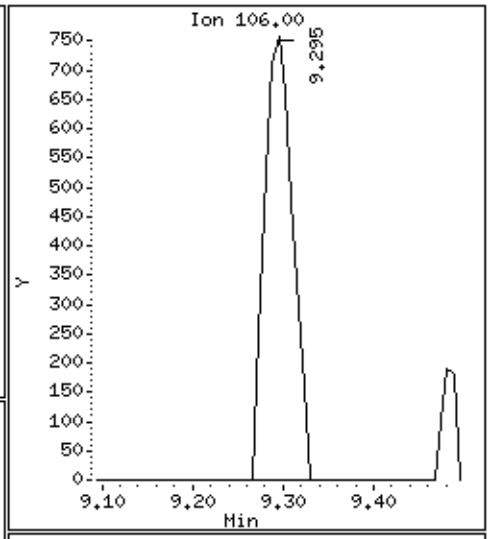
Concentration: 0.2878 PPBV

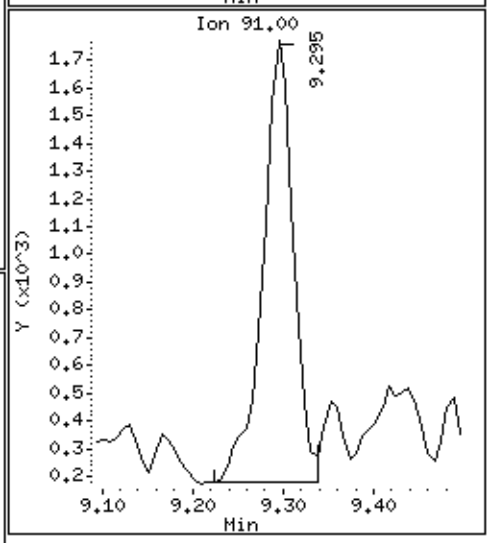












Data File: /chem/msdp.i/08feb16.b/p020810.d

Date : 08-FEB-2016 15:37

Client ID:

Instrument: msdp.i

Sample Info: 200ml 36483

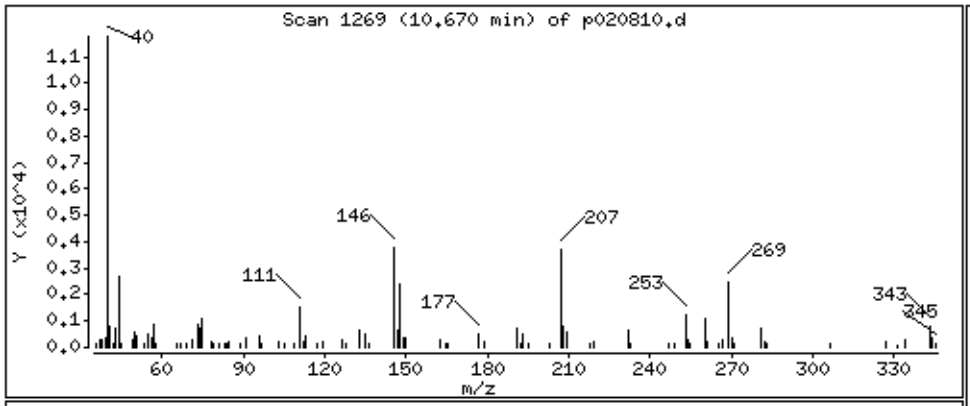
Operator: sab

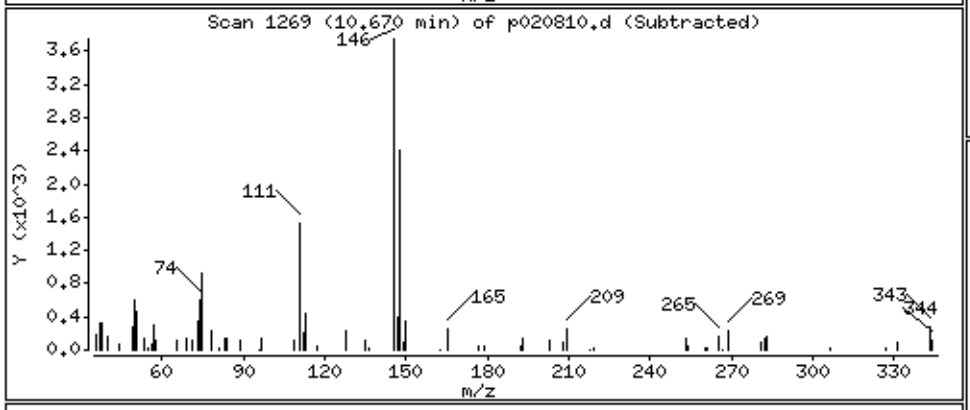
Column phase: RTX-624

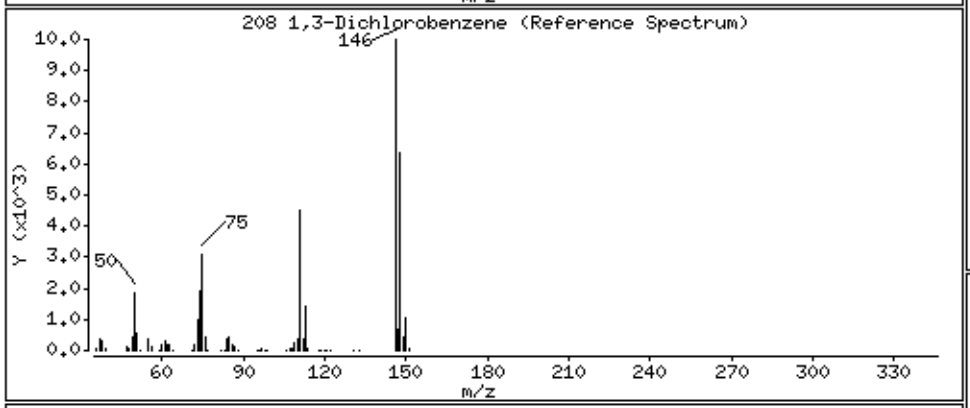
Column diameter: 0.25

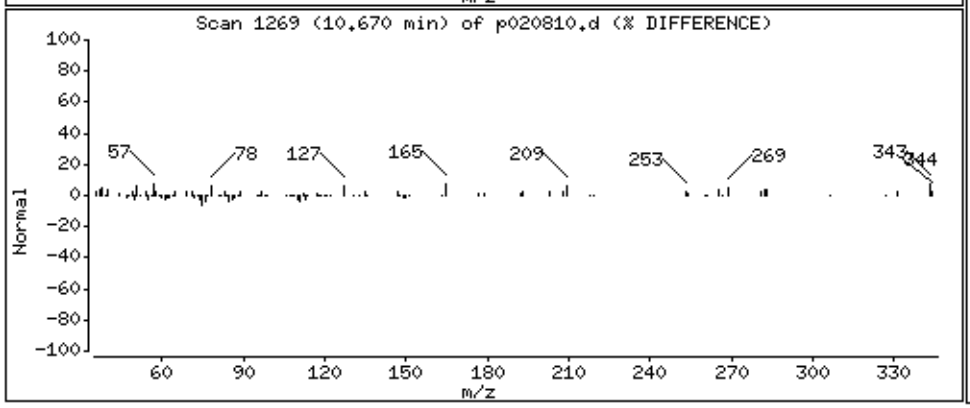
208 1,3-Dichlorobenzene

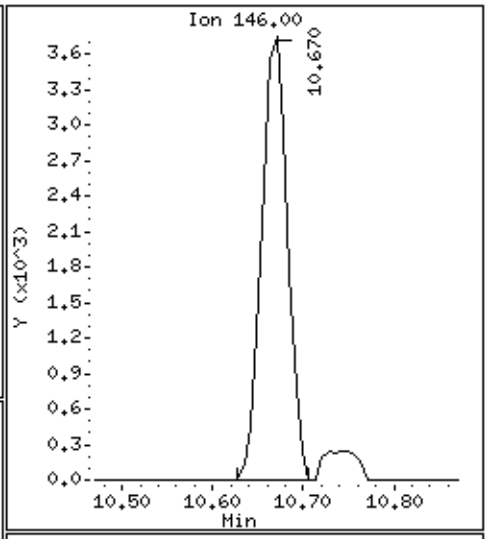
Concentration: 0.6394 PPBV

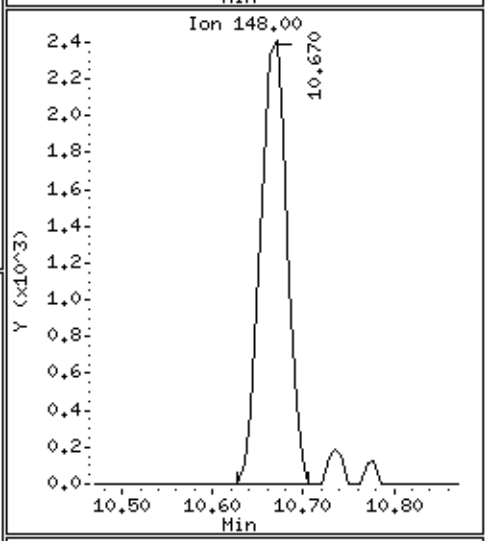


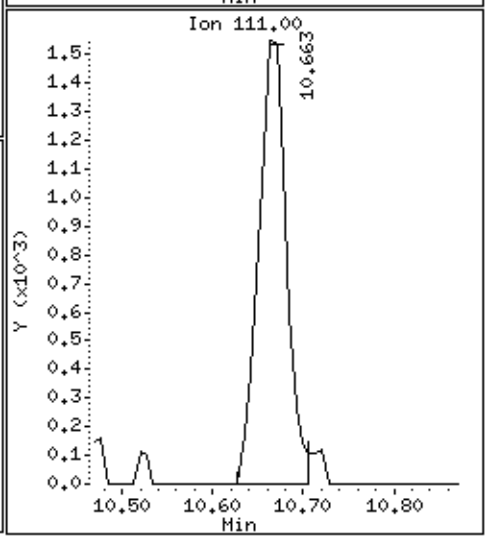












QC Results and Raw Data

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Client Sample ID: Lab Blank

Lab ID#: 1602064B-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020808a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 01:10 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	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	1.2 J	12	2.8 J
2-Propanol	2.0	1.0 J	4.9	2.6 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	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	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	0.29 J	2.0	1.2 J
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

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Client Sample ID: Lab Blank

Lab ID#: 1602064B-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020808a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 01:10 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	98	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	97	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020808a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 08-FEB-2016 13:10
Operator : sab Inst ID: msdp.i
Smp Info : 200ml 33555
Misc Info : humid
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 08-Feb-2016 11:39 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 12
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

Name	Value	Description
DF	1.00000	Dilution Factor

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	151072	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	115525			49.06- 109.06	76.47
5.456	5.449 (1.000)	49	221248			124.20- 184.20	146.45
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	604189	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	86993			0.00- 44.57	14.40
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.779 (1.000)	117	563638	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	296410			20.36- 80.36	52.59
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	210167	23.5741	23.574	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	105912			26.68- 86.68	50.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.554	7.555 (1.191)	98	593858	24.6012	24.601	80.00- 120.00	100.00
7.554	7.555 (1.191)	70	61941			0.00- 40.62	10.43
7.554	7.555 (1.191)	100	392447			36.74- 96.74	66.08
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.768	9.761 (1.112)	174	442087	24.3201	24.320	80.00- 120.00	100.00
9.768	9.761 (1.112)	95	430563			65.95- 125.95	97.39
9.768	9.761 (1.112)	176	426787			65.80- 125.80	96.54
52 Acetone					CAS #: 67-64-1		
3.400	3.386 (0.623)	58	4680	1.17507	1.175	80.00- 120.00	100.00(a)
3.393	3.386 (0.622)	43	17031			323.05- 383.05	363.88
57 2-Propanol					CAS #: 67-63-0		
3.565	3.550 (0.653)	45	17786	1.04673	1.047	80.00- 120.00	100.00(a)
3.558	3.550 (0.652)	43	3398			0.00- 49.72	19.11
3.579	3.550 (0.656)	59	357			0.00- 33.36	2.01
121 Heptane					CAS #: 142-82-5		
6.129	6.129 (0.966)	71	2329	0.29260	0.2926	80.00- 120.00	100.00(a)
6.129	6.129 (0.966)	43	4125			172.43- 232.43	177.11
6.129	6.129 (0.966)	57	3182			85.51- 145.51	136.65

QC Flag Legend

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

Report Date: 08-Feb-2016 13:36

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020808a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: humid

Calibration Date: 08-FEB-2016
Calibration Time: 10:35
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	151072	-0.93
123 1,4-Difluorobenze	608067	364840	851294	604189	-0.64
163 Chlorobenzene-d5	577195	346317	808073	563638	-2.35

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	8.79	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: 08-Feb-2016 13:36

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12mdl.sub
Method File: /var/chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	23.574	94.30	70-130
$ 146 Toluene-d8	25.000	24.601	98.40	70-130
$ 177 4-Bromofluorobenze	25.000	24.320	97.28	70-130

Data File: /chem/msdp.i/08feb16.b/p020808a.d

Date : 08-FEB-2016 13:10

Client ID: Lab Blank

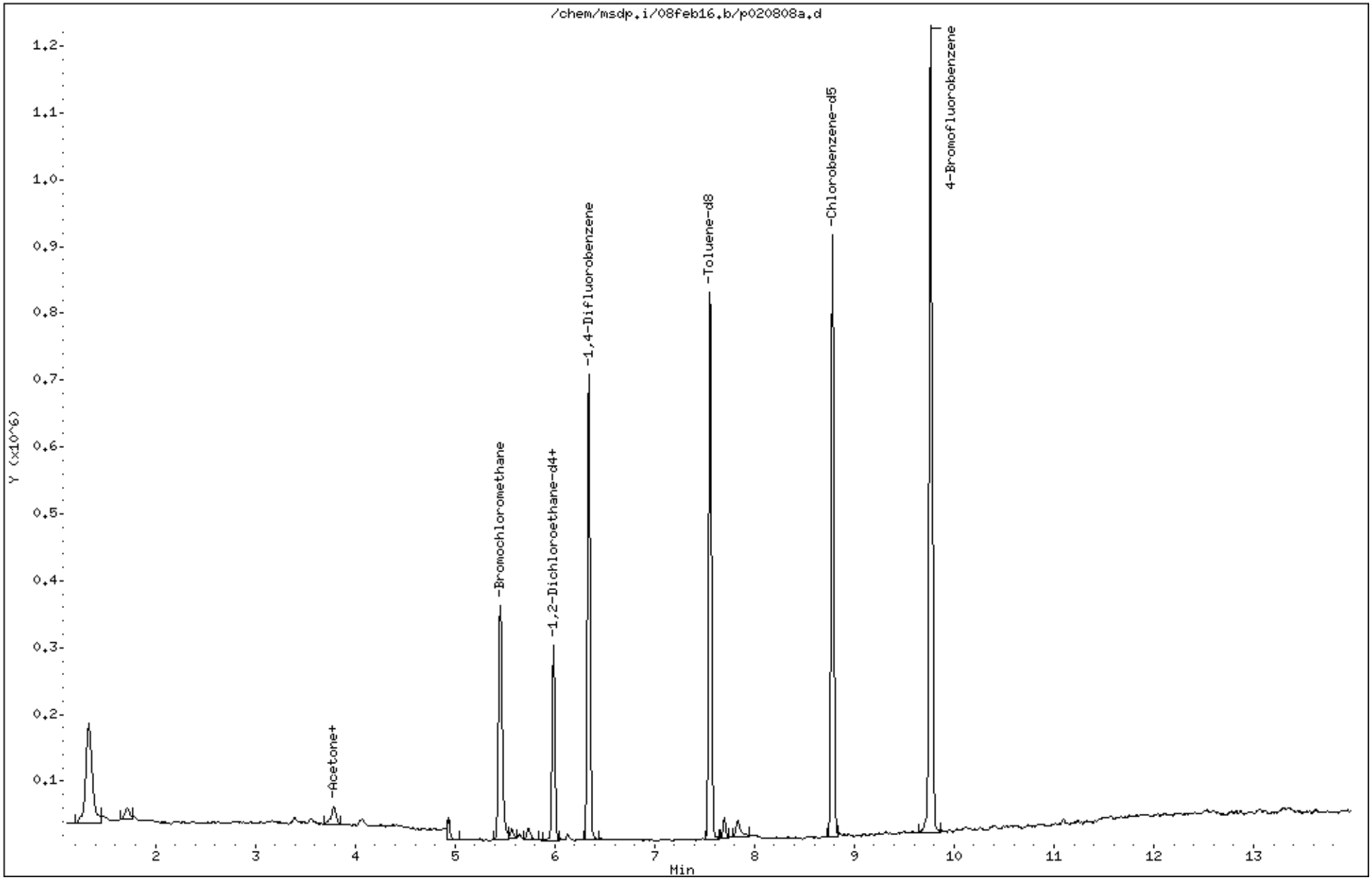
Sample Info: 200ml 33555

Column phase: RTX-624

Instrument: msdp.i

Operator: sab

Column diameter: 0.25



Data File: /chem/msdp.i/08feb16.b/p020808a.d

Date : 08-FEB-2016 13:10

Client ID: Lab Blank

Instrument: msdp.i

Sample Info: 200ml 33555

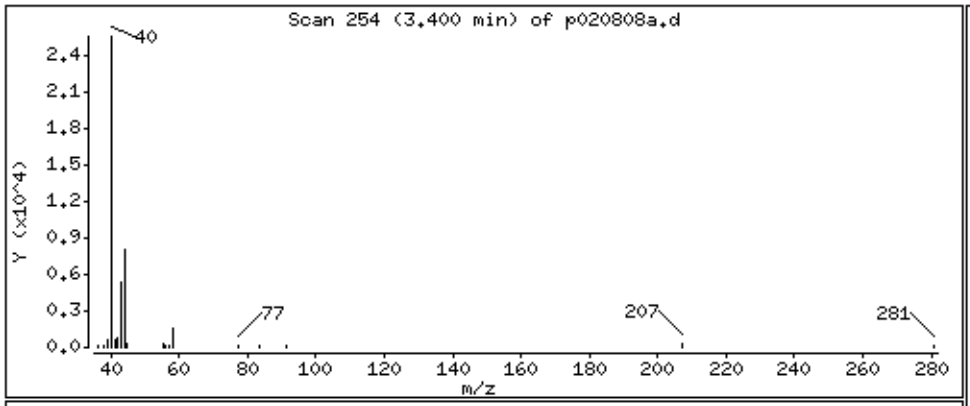
Operator: sab

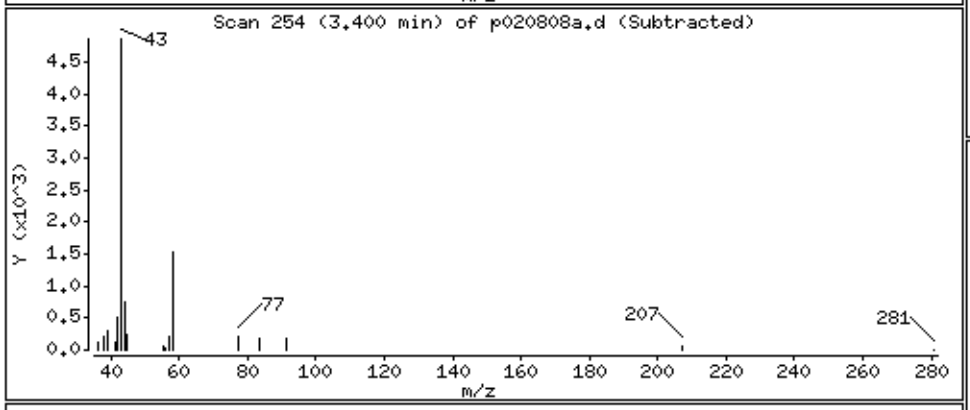
Column phase: RTX-624

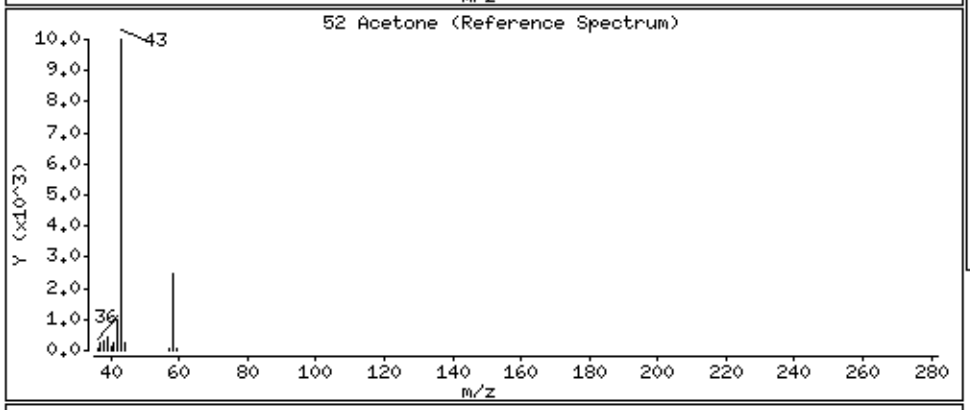
Column diameter: 0.25

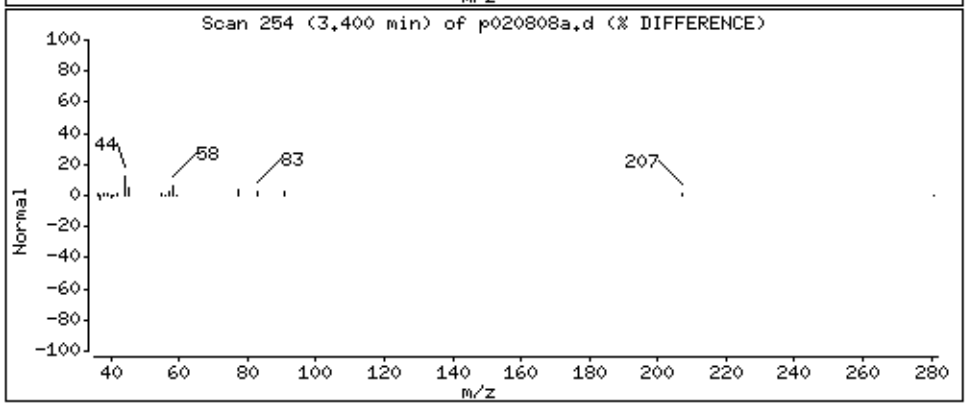
52 Acetone

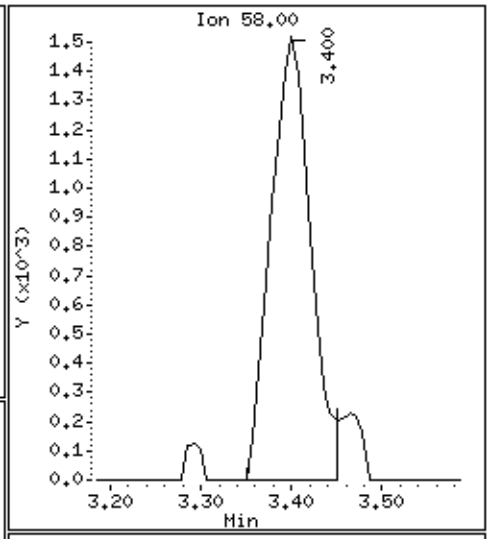
Concentration: 1.175 PPBV

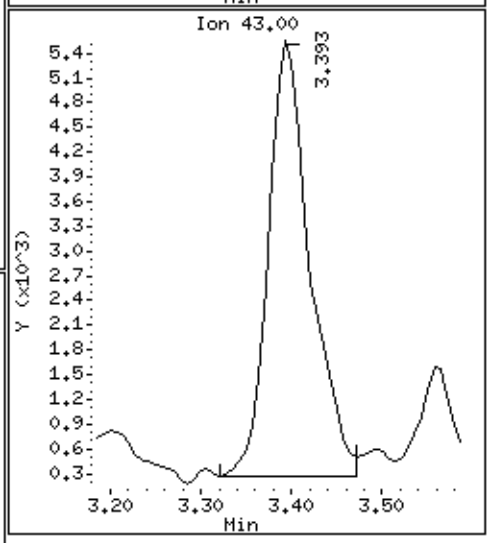












Data File: /chem/msdp.i/08feb16.b/p020808a.d

Date : 08-FEB-2016 13:10

Client ID: Lab Blank

Instrument: msdp.i

Sample Info: 200ml 33555

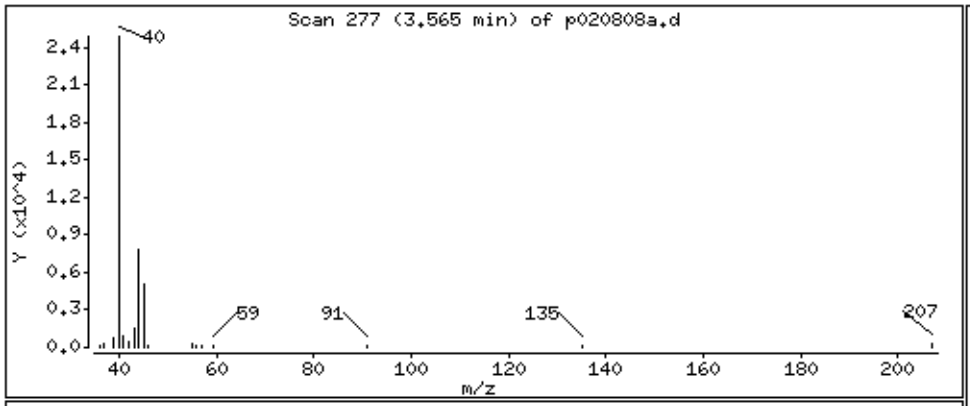
Operator: sab

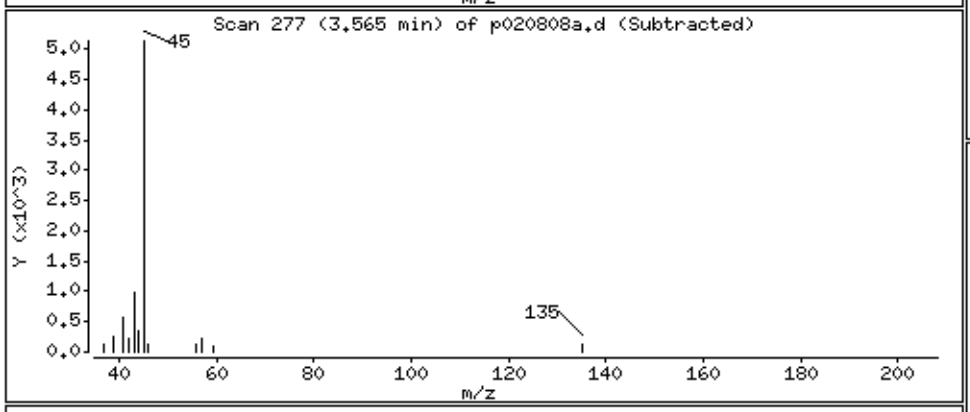
Column phase: RTX-624

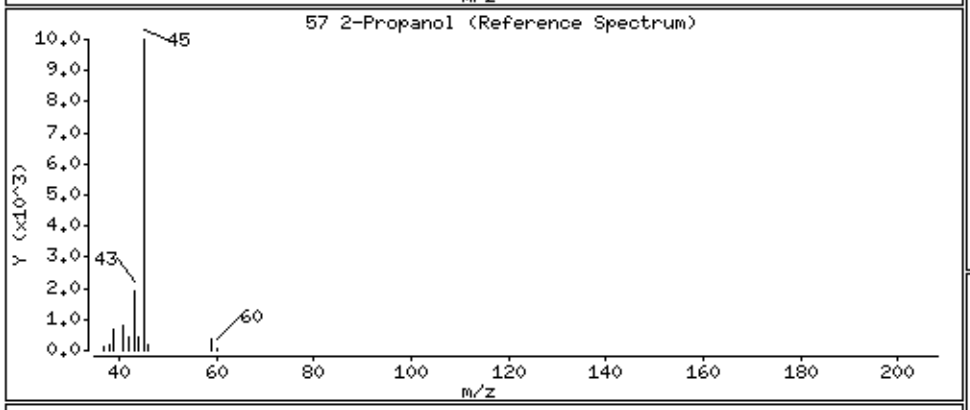
Column diameter: 0.25

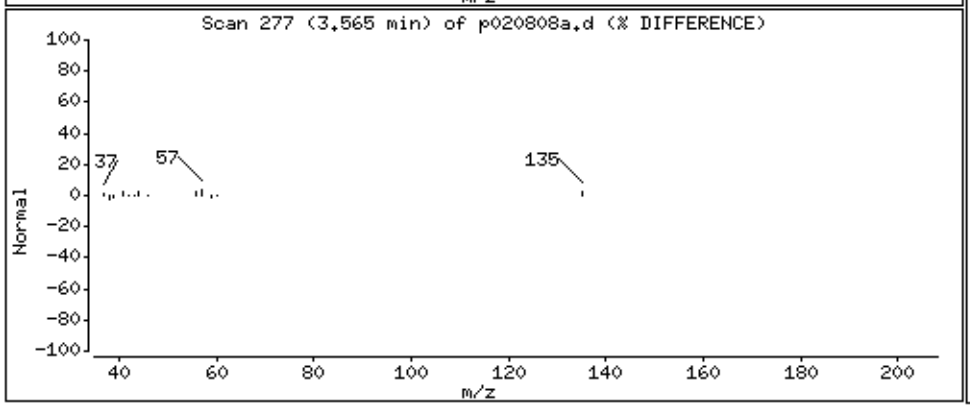
57 2-Propanol

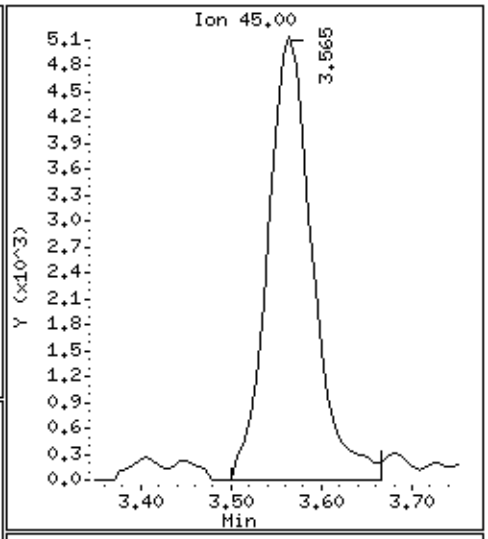
Concentration: 1.047 PPBV

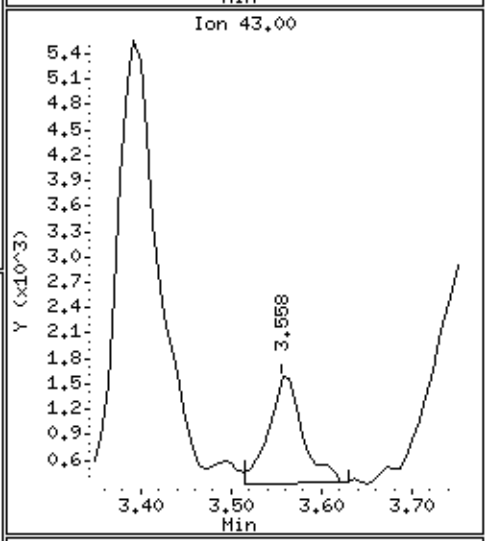


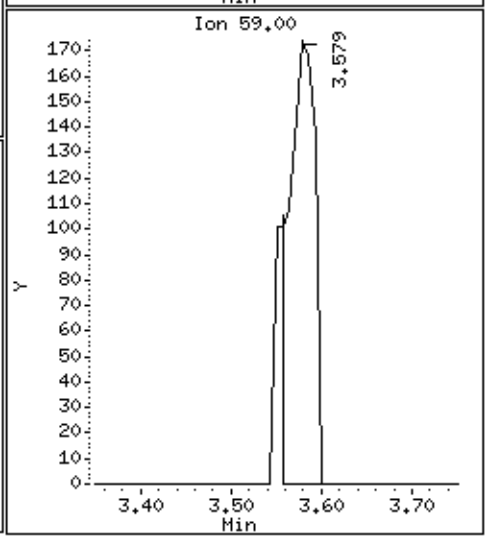












Data File: /chem/msdp.i/08feb16.b/p020808a.d

Date : 08-FEB-2016 13:10

Client ID: Lab Blank

Instrument: msdp.i

Sample Info: 200ml 33555

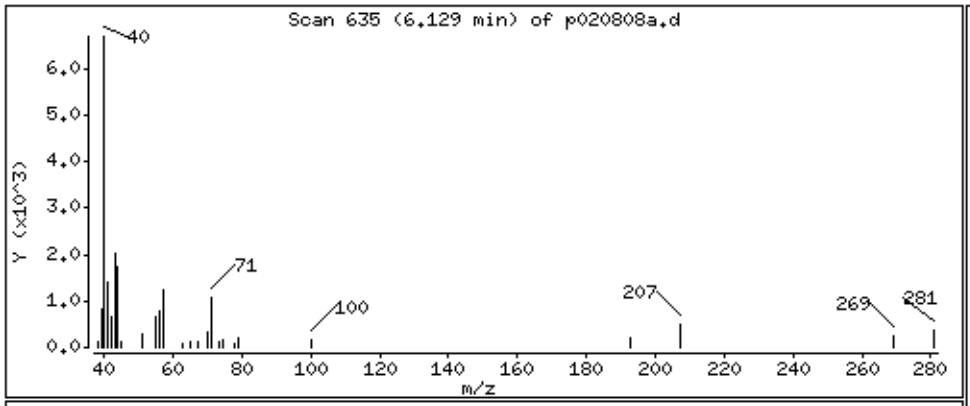
Operator: sab

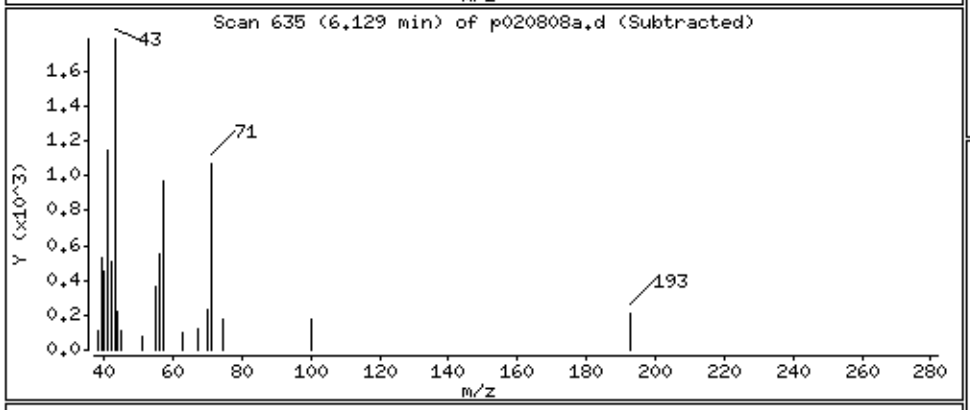
Column phase: RTX-624

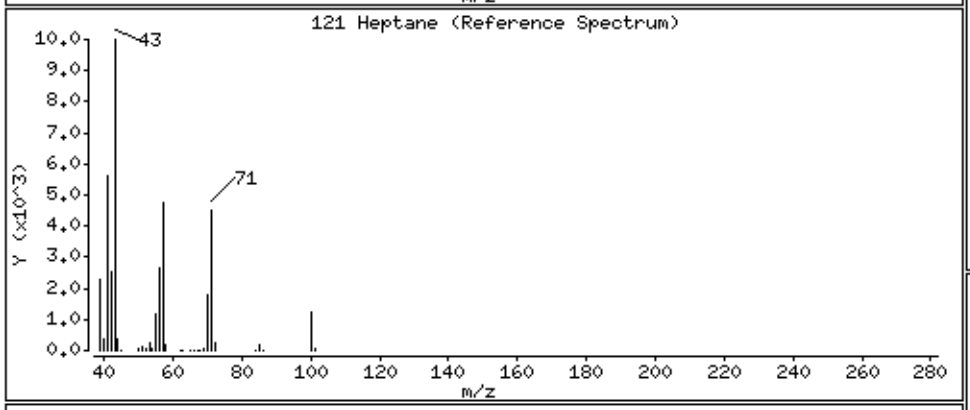
Column diameter: 0.25

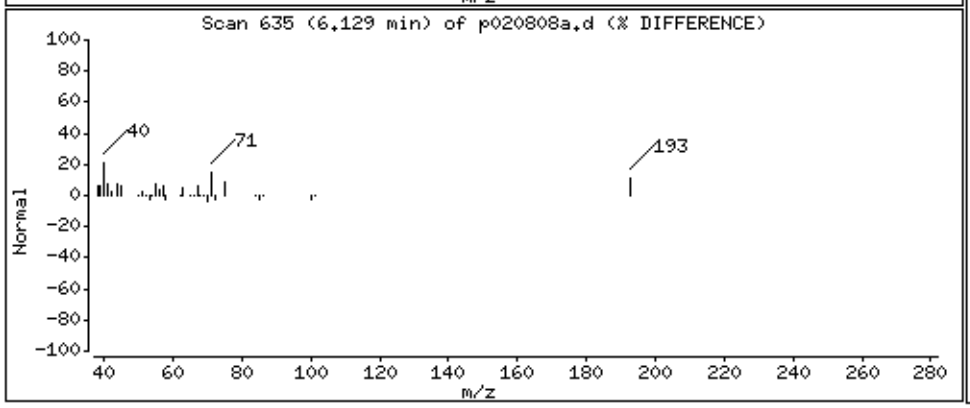
121 Heptane

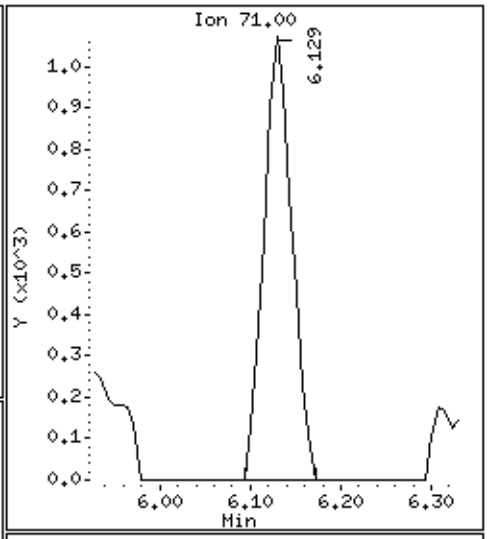
Concentration: 0.2926 PPBV

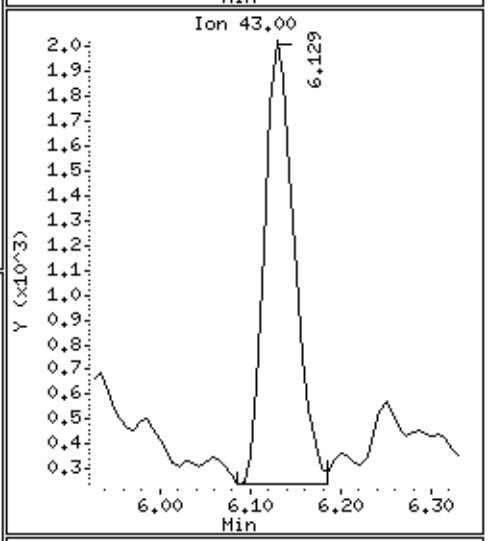


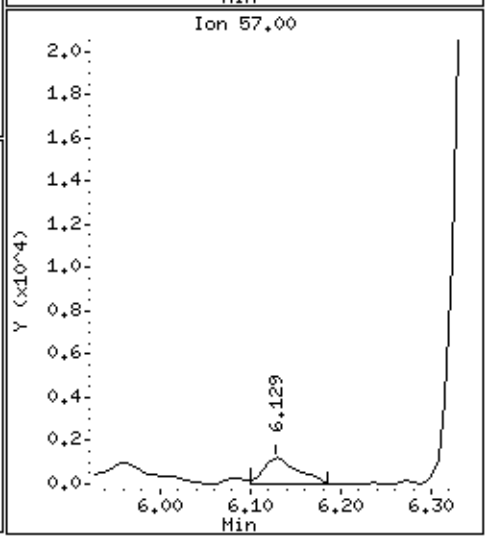












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Client Sample ID: Lab Blank

Lab ID#: 1602064B-19B

EPA METHOD TO-15 GC/MS

File Name:	**14021507a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 01:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1602064B-19B

EPA METHOD TO-15 GC/MS

File Name:	**14021507a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 01:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected UJ	150	Not Detected UJ
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Naphthalene	20	Not Detected	100	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15feb16.b/14021507a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 15-FEB-2016 13:03
Operator : js Inst ID: msd14.i
Smp Info : 50mL #34496
Misc Info : Humid
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/15feb16.b/14650212a.m
Meth Date : 15-Feb-2016 14:25 jscarbro Quant Type: ISTD
Cal Date : 12-FEB-2016 14:28 Cal File: 14021213.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	131435	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	101479			46.39- 106.39	77.21
4.739	4.739 (1.000)	49	236136			150.71- 210.71	179.66
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	588472	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	100950			0.00- 47.48	17.15
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	486572	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	336181			37.59- 97.59	69.09
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	242545	405.768	405.77	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	125605			24.07- 84.07	51.79

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5		
7.621	7.621	(1.304)	98	652034	400.079	400.08	80.00- 120.00	100.00
7.621	7.621	(1.304)	70	76787			0.00- 41.71	11.78
7.621	7.621	(1.304)	100	411478			32.73- 92.73	63.11
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4		
10.937	10.937	(1.114)	174	241463	395.805	395.80	80.00- 120.00	100.00
10.937	10.937	(1.114)	95	406510			142.84- 202.84	168.35
10.951	10.937	(1.115)	176	231198			67.70- 127.70	95.75

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14021507a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: Humid

Calibration Date: 15-FEB-2016
Calibration Time: 10:38
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	134188	80513	187863	131435	-2.05
123 1,4-Difluorobenze	615834	369500	862168	588472	-4.44
163 Chlorobenzene-d5	494859	296915	692803	486572	-1.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	-0.01
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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: 15-Feb-2016 16:36

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15feb16a
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	405.77	101.44	70-130
$ 146 Toluene-d8	400.00	400.08	100.02	70-130
$ 177 4-Bromofluorobenze	400.00	395.80	98.95	70-130

Data File: /chem/msd14.i/15feb16.b/14021507a.d

Date : 15-FEB-2016 13:03

Client ID: Lab Blank

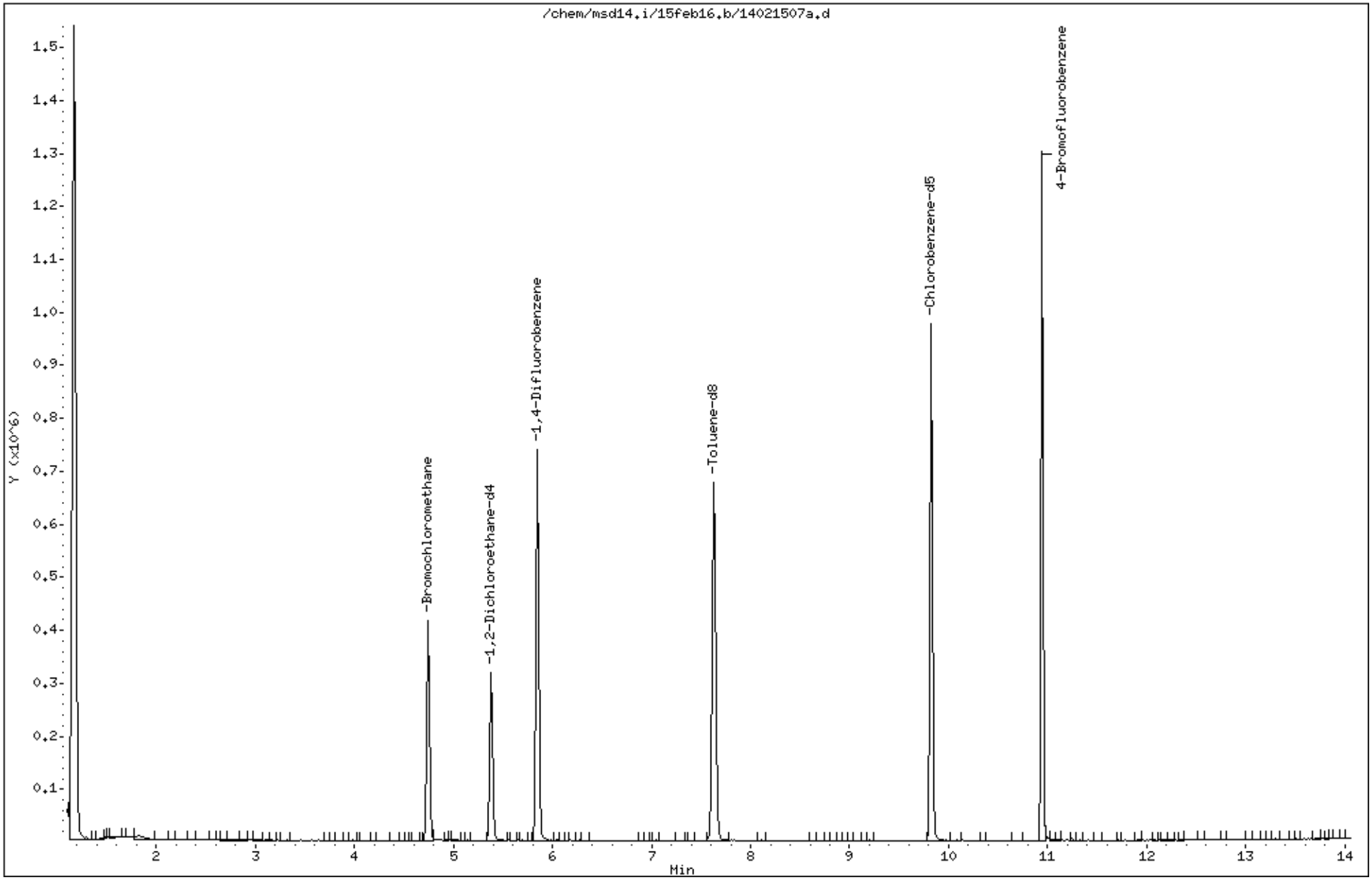
Sample Info: 50mL #34496

Column phase: RTX-624

Instrument: msd14.i

Operator: js

Column diameter: 0.18



LEVEL-IV VALIDATABLE

EPA METHOD TO-15 GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1602064B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	B30-1SSV013116	99		98		100				0
02	B30-2SSV013116	99		100		94				0
03	B30-3SSV013116	94		100		95				0
04	B30-4DSSV013116	96		97		96				0
05	B30-5SSV013116	97		100		94				0
06	B42-1SSV013116	96		100		95				0
07	B42-2SSV013116	96		98		94				0
08	B42-3SSV013116	95		100		95				0
09	Lab Blank	94		98		97				0
10	Lab Blank	101		100		99				0
11	CCV	100		98		96				0
12	CCV	99		99		103				0
13	LCS	103		99		98				0
14	LCSD	98		98		98				0
15	LCS	100		99		104				0
16	LCSD	104		98		104				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

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	AIR TOXICS, LTD	SDG No:	1602064B
Lab File ID:	p020804.d	Date Analyzed:	02/08/2016
Instrument ID:	msdp.i	Time Analyzed:	10:35 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	577195		8.78		608067		6.34		152495		5.45	
	UPPER LIMIT	808073		09.11		851294		06.67		213493		05.78	
	LOWER LIMIT	346317		08.45		364840		06.01		91497		05.12	
	CLIENT SAMPLE NO												
01	B30-2SSV013116	536498		8.79		559983		6.34		136371		5.46	
02	B30-3SSV013116	532187		8.79		558645		6.34		143882		5.46	
03	B30-4DSSV013116	521492		8.79		565601		6.34		139713		5.45	
04	B30-5SSV013116	545442		8.79		568032		6.34		138437		5.46	
05	B42-1SSV013116	539257		8.78		565209		6.34		143105		5.45	
06	B42-2SSV013116	558365		8.79		579247		6.34		141589		5.46	
07	B42-3SSV013116	562941		8.79		585581		6.34		144988		5.46	
08	Lab Blank	563638		8.79		604189		6.34		151072		5.46	
09	CCV	577195		8.78		608067		6.34		152495		5.45	
10	LCS	578350		8.79		601836		6.34		147219		5.46	
11	LCSD	572955		8.79		610936		6.34		149851		5.46	
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

LEVEL-IV VALIDATABLE

EPA Method TO-15 GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	AIR TOXICS, LTD	SDG No:	1602064B
Lab File ID:	14021502.d	Date Analyzed:	02/15/2016
Instrument ID:	msd14.i	Time Analyzed:	10:38 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	494859		9.82		615834		5.84		134188		4.74	
	UPPER LIMIT	692803		10.15		862168		06.17		187863		05.07	
	LOWER LIMIT	296915		09.49		369500		05.51		80513		04.41	
	CLIENT SAMPLE NO												
01	B30-1SSV013116	460847		9.82		568493		5.84		128085		4.74	
02	Lab Blank	486572		9.82		588472		5.84		131435		4.74	
03	CCV	494859		9.82		615834		5.84		134188		4.74	
04	LCS	485314		9.82		603588		5.84		132242		4.74	
05	LCSD	493650		9.82		605876		5.84		126832		4.74	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: p020806.d & p020805.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 2/8/16 & 2/8/16

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	101		99		2.0	
79-34-5	1,1,2,2-Tetrachloroethane	101		102		0.98	
79-00-5	1,1,2-Trichloroethane	103		106		2.9	
75-34-3	1,1-Dichloroethane	110		105		4.6	
75-35-4	1,1-Dichloroethene	108		104		3.8	
120-82-1	1,2,4-Trichlorobenzene	129		137		6.0	
95-63-6	1,2,4-Trimethylbenzene	106		109		2.8	
106-93-4	1,2-Dibromoethane (EDB)	106		107		0.94	
95-50-1	1,2-Dichlorobenzene	104		107		2.8	
107-06-2	1,2-Dichloroethane	110		106		3.7	
78-87-5	1,2-Dichloropropane	104		100		3.9	
108-67-8	1,3,5-Trimethylbenzene	110		108		1.8	
106-99-0	1,3-Butadiene	105		104		0.96	
541-73-1	1,3-Dichlorobenzene	105		106		0.95	
106-46-7	1,4-Dichlorobenzene	103		105		1.9	
123-91-1	1,4-Dioxane	107		104		2.8	
540-84-1	2,2,4-Trimethylpentane	104		101		2.9	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	101		100		1.0	
591-78-6	2-Hexanone	110		112		1.8	
67-63-0	2-Propanol	99		97		2.0	
107-05-1	3-Chloropropene	98		95		3.1	
622-96-8	4-Ethyltoluene	100		104		3.9	
108-10-1	4-Methyl-2-pentanone	106		101		4.8	
67-64-1	Acetone	93		91		2.2	
100-44-7	alpha-Chlorotoluene	105		106		0.95	
71-43-2	Benzene	104		103		0.97	
75-27-4	Bromodichloromethane	108		105		2.8	
75-25-2	Bromoform	108		111		2.7	
74-83-9	Bromomethane	124		124		0	
75-15-0	Carbon Disulfide	93		90		3.3	
56-23-5	Carbon Tetrachloride	105		103		1.9	
108-90-7	Chlorobenzene	105		104		0.96	
75-00-3	Chloroethane	108		105		2.8	
67-66-3	Chloroform	105		105		0	
74-87-3	Chloromethane	124		121		2.4	
156-59-2	cis-1,2-Dichloroethene	104		102		1.9	
10061-01-5	cis-1,3-Dichloropropene	101		98		3.0	
98-82-8	Cumene	101		102		0.98	
110-82-7	Cyclohexane	96		96		0	
124-48-1	Dibromochloromethane	108		108		0	
64-17-5	Ethanol	108		110		1.8	
100-41-4	Ethyl Benzene	102		103		0.98	
75-69-4	Freon 11	109		109		0	
76-13-1	Freon 113	103		99		4.0	
76-14-2	Freon 114	117		114		2.6	

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: p020806.d & p020805.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 2/8/16 & 2/8/16

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
75-71-8	Freon 12	112		108		3.6	
142-82-5	Heptane	91		90		1.1	
87-68-3	Hexachlorobutadiene	127		136		6.8	
110-54-3	Hexane	103		101		2.0	
108-38-3	m,p-Xylene	104		104		0	
1634-04-4	Methyl tert-butyl ether	101		97		4.0	
75-09-2	Methylene Chloride	110		108		1.8	
91-20-3	Naphthalene	149		158		5.9	
95-47-6	o-Xylene	103		105		1.9	
103-65-1	Propylbenzene	103		106		2.9	
100-42-5	Styrene	114		115		0.87	
127-18-4	Tetrachloroethene	105		107		1.9	
109-99-9	Tetrahydrofuran	104		102		1.9	
108-88-3	Toluene	104		102		1.9	
156-60-5	trans-1,2-Dichloroethene	112		111		0.90	
10061-02-6	trans-1,3-Dichloropropene	108		108		0	
79-01-6	Trichloroethene	107		105		1.9	
75-01-4	Vinyl Chloride	123		127		3.2	

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: 14021505.d & 14021503.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 2/15/16 & 2/15/16

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	82		83		1.2	
79-34-5	1,1,2,2-Tetrachloroethane	86		84		2.4	
79-00-5	1,1,2-Trichloroethane	84		80		4.9	
75-34-3	1,1-Dichloroethane	82		83		1.2	
75-35-4	1,1-Dichloroethene	78		80		2.5	
120-82-1	1,2,4-Trichlorobenzene	73		75		2.7	Y
95-63-6	1,2,4-Trimethylbenzene	83		79		4.9	
106-93-4	1,2-Dibromoethane (EDB)	81		83		2.4	
95-50-1	1,2-Dichlorobenzene	79		75		5.2	
107-06-2	1,2-Dichloroethane	79		79		0	
78-87-5	1,2-Dichloropropane	82		82		0	
108-67-8	1,3,5-Trimethylbenzene	83		82		1.2	
106-99-0	1,3-Butadiene	78		80		2.5	
541-73-1	1,3-Dichlorobenzene	81		78		3.8	
106-46-7	1,4-Dichlorobenzene	78		78		0	
123-91-1	1,4-Dioxane	79		76		3.9	Y
540-84-1	2,2,4-Trimethylpentane	82		84		2.4	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	75		83		10	Y
591-78-6	2-Hexanone	80		76		5.1	Y
67-63-0	2-Propanol	87		89		2.3	Y
107-05-1	3-Chloropropene	74		74		0	Y
622-96-8	4-Ethyltoluene	83		80		3.7	
108-10-1	4-Methyl-2-pentanone	89		88		1.1	
67-64-1	Acetone	84		86		2.4	Y
100-44-7	alpha-Chlorotoluene	96		88		8.7	
71-43-2	Benzene	83		80		3.7	
75-27-4	Bromodichloromethane	81		77		5.1	
75-25-2	Bromoform	83		80		3.7	
74-83-9	Bromomethane	76		72		5.4	
75-15-0	Carbon Disulfide	71		74		4.1	
56-23-5	Carbon Tetrachloride	83		84		1.2	
108-90-7	Chlorobenzene	81		80		1.2	
75-00-3	Chloroethane	86		87		1.2	Y
67-66-3	Chloroform	80		82		2.5	
74-87-3	Chloromethane	76		76		0	Y
156-59-2	cis-1,2-Dichloroethene	78		82		5.0	
10061-01-5	cis-1,3-Dichloropropene	85		79		7.3	
98-82-8	Cumene	86		81		6.0	
110-82-7	Cyclohexane	78		80		2.5	
124-48-1	Dibromochloromethane	81		78		3.8	
64-17-5	Ethanol	65		64		1.6	Y
100-41-4	Ethyl Benzene	82		78		5.0	
75-69-4	Freon 11	82		83		1.2	
76-13-1	Freon 113	79		81		2.5	
76-14-2	Freon 114	87		87		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: 14021505.d & 14021503.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 2/15/16 & 2/15/16

		Original		Duplicate			Result Less Than
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD	5X RL
75-71-8	Freon 12	81		84		3.6	
142-82-5	Heptane	80		77		3.8	
87-68-3	Hexachlorobutadiene	86		80		7.2	Y
110-54-3	Hexane	80		81		1.2	
108-38-3	m,p-Xylene	82		82		0	
1634-04-4	Methyl tert-butyl ether	92		81		13	
75-09-2	Methylene Chloride	78		80		2.5	
91-20-3	Naphthalene	72		73		1.4	Y
95-47-6	o-Xylene	84		82		2.4	
103-65-1	Propylbenzene	83		81		2.4	
100-42-5	Styrene	86		80		7.2	
127-18-4	Tetrachloroethene	81		79		2.5	
109-99-9	Tetrahydrofuran	83		86		3.6	
108-88-3	Toluene	78		78		0	
156-60-5	trans-1,2-Dichloroethene	81		85		4.8	
10061-02-6	trans-1,3-Dichloropropene	94		92		2.2	
79-01-6	Trichloroethene	73		71		2.8	
75-01-4	Vinyl Chloride	82		84		2.4	

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 : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd14.i/12feb16.b/14021209.d
Level 2: /chem/msd14.i/12feb16.b/14021210.d
Level 3: /chem/msd14.i/12feb16.b/14021211.d
Level 4: /chem/msd14.i/12feb16.b/14021212.d
Level 5: /chem/msd14.i/12feb16.b/14021213.d
Level 6: /chem/msd14.i/12feb16.b/14021214.d
Level 7: /chem/msd14.i/12feb16.b/14021215.d
Level 9: /chem/msd14.i/12feb16.b/14021216.d

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
1 Dimethyl Ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Freon 134a	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
8 Propane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++ / 1.39163	+++++ / +++++	1.29539	1.39641	1.46306	1.29631	1.36856	5.271
10 1,1-Difluoroethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	+++++ / 4.90433	5.06364 / +++++	4.43340	4.62424	5.17151	4.69408	4.81520	5.826
12 Vinyl Fluoride	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	+++++ / 2.87246	2.50476 / +++++	2.51704	2.52519	2.94160	2.74762	2.68478	7.283
16 Freon 142b	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloromethane	+++++ / 1.83468	+++++ / +++++	2.21396	2.10637	2.30171	2.03976	2.09929	8.512

Eurofins Air Toxics Inc.

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Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
23 Butane	+++++	+++++	0.48883	0.49995	0.55043	0.48619		
	0.50977	+++++					0.50703	5.131
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
25 Vinyl Chloride	+++++	2.29907	1.98843	2.17324	2.37848	2.17850		
	2.25134	+++++					2.21151	6.048
26 1,3-Butadiene	+++++	1.95266	1.53955	1.60689	1.81570	1.71436		
	1.76827	+++++					1.73290	8.560
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

Eurofins Air Toxics Inc.

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Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
28 Methanol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	+++++ / 1.26421	1.78148 / +++++	0.89760	1.04506	1.24004	1.12576	1.22569	24.769
30 Chloroethane	+++++ / 1.06721	+++++ / +++++	0.79740	1.01502	1.09649	1.02058	0.99934	11.789
31 Isopentane	+++++ / 2.14651	+++++ / +++++	1.73179	1.94312	2.20462	2.00094	2.00539	9.274
32 Vinyl Bromide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	+++++ / 4.47920	4.68948 / +++++	3.80493	3.97029	4.65708	4.34292	4.32399	8.425
36 1-Pentene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoromethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
38 2,3-Dimethylbutane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-2-butene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++ / 0.65742	+++++ / +++++	1.02542	1.07310	1.14840	1.08177	0.99722	19.549
43 1,2-Dichloro-1-fluoroethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
48 Freon 123	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Freon 113	+++++ / 2.54966	2.57106 / +++++	2.15487	2.30679	2.65516	2.36225	2.43330	7.804
50 1,1-Dichloroethene	+++++ / 3.66701	4.12926 / +++++	3.64532	3.57045	3.99314	3.62638	3.77193	6.108
51 2,2-Dimethylbutane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Acetone	+++++ / 1.13664	+++++ / +++++	1.01544	0.96307	1.15516	1.06040	1.06614	7.580
53 Iodomethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Bromoethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
55 4-Methyl-1-pentene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Carbon Disulfide	+++++ / 5.69364	5.67799 / +++++	4.74248	5.12918	5.79781	5.45224	5.41556	7.517
57 2-Propanol	+++++ / 3.10882	+++++ / +++++	2.26638	2.38499	2.99085	2.90839	2.73189	13.906

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
58 3-Chloropropene	+++++ / 0.89208	+++++ / +++++	0.52528	0.61152	0.80151	0.78404	0.72289	20.750
59 Cyclopentene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2-Methylpentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Methyl Acetate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
62 3-Methylpentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Acetonitrile	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Cyclopentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
65 1-Chloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Methylene Chloride	+++++ / 2.43691	3.10896 / +++++	2.25057	2.18224	2.52008	2.31169	2.46841	13.653
67 2-Methyl-1-pentene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
68 2,4-Dimethylpentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	+++++ / +++++	+++++ / +++++	0.92839	0.94115	1.30988	1.34269	1.13053	20.035	
72 Methyl tert-butyl ether	+++++ / +++++	1.04737 / +++++	1.29788	1.44297	2.00723	2.41212	1.64152	33.892	<-
73 trans-1,2-Dichloroethene	+++++ / 1.95689	1.96754 / +++++	1.52141	1.70287	1.91505	1.86960	1.82223	9.658	
74 Acrylonitrile	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.

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Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
78 Hexane	+++++ / 3.84929	3.51627 / +++++	2.87188	3.06957	3.64389	3.58341	3.42239	10.883
79 Methylcyclopentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
80 sec-Butyl chloride	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
82 1,1-Dichloroethane	+++++ / 4.15206	3.68339 / +++++	3.34057	3.71046	4.25414	3.90807	3.84145	8.745
83 Isopropyl ether	+++++ / +++++	+++++ / +++++	5.04456	5.22616	6.44425	6.18750	5.72562	12.113
84 1-Propanol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Chloroprene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Butanal	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
88 Ethyl-tert-butyl ether	+++++ / +++++	+++++ / +++++	1.76990	1.79319	2.56739	2.87363	2.25102	24.719
89 Isobutyl chloride	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	+++++ / 3.19858	2.97973 / +++++	2.48658	2.84297	3.22679	3.04915	2.96397	9.229
92 2-Butanone	+++++ / 0.98112	+++++ / +++++	0.61399	0.69784	0.85503	0.88414	0.80642	18.366
93 Methyl Acrylate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
99 Tetrahydrofuran	+++++	1.90597	1.54438	1.65584	2.04427	2.04536		
	2.15903	+++++					1.89248	12.831
100 Chloroform	+++++	4.25579	3.38768	3.84714	4.30302	4.10294		
	4.24092	+++++					4.02291	8.761
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
102 Cyclohexane	+++++	2.89989	2.05085	2.29540	2.90270	2.74780		
	2.94193	+++++					2.63976	14.227
103 1,1,1-Trichloroethane	+++++	3.04536	2.70195	3.24595	3.78741	3.73985		
	4.05829	+++++					3.42980	15.040
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
106 Carbon Tetrachloride	+++++	2.36335	2.52719	2.80055	3.34504	3.31076		
	3.54678	+++++					2.98228	16.299
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
113 2,2,4-Trimethylpentane	+++++	10.62188	9.04456	9.82995	11.91922	11.28869		
	12.31594	+++++					10.83671	11.552
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
116 Benzene	1.18707	1.39314	1.13656	1.21516	1.39216	1.31993		
	1.36395	+++++					1.28685	8.218
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
119 tert-Amyl methyl ether	+++++	+++++	1.24129	1.47587	1.95256	2.16350		
	+++++	+++++					1.70831	24.812
120 1,2-Dichloroethane	+++++	0.61196	0.59910	0.57390	0.65983	0.65203		
	0.66351	+++++					0.62672	5.911

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
121 Heptane	+++++ / 0.49812	0.44407 / +++++	0.37461	0.39789	0.46409	0.47584	0.44244	10.732
122 2,3-Dichloro-1-propene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
124 n-Butanol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	+++++ / 0.59357	0.79864 / +++++	0.55599	0.57098	0.64503	0.59295	0.62619	14.326
126 Bromodichloroethene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++ / 0.84540	0.87585 / +++++	0.68563	0.70322	0.80910	0.79901	0.78637	9.723
128 Ethyl acrylate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
132 1,2-Dichloropropane	+++++	0.55190	0.51205	0.49991	0.56080	0.53623		
	0.57775	+++++					0.53977	5.497
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
136 1,4-Dioxane	+++++	+++++	0.23232	0.24967	0.29140	0.29736		
	0.31380	+++++					0.27691	12.404
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
138 Bromodichloromethane	+++++	1.00677	0.81817	0.84138	1.00395	0.94758		
	1.00892	+++++					0.93779	9.283
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
140 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
142 Epichlorohydrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropene	+++++ / 0.79853	0.36345 / +++++	0.48151	0.52036	0.64348	0.68863	0.58266	26.995
145 4-Methyl-2-pentanone	+++++ / 0.17114	0.09260 / +++++	0.11255	0.11387	0.13895	0.14901	0.12969	22.073
147 Toluene	+++++ / 1.60098	1.66813 / +++++	1.32528	1.32173	1.58625	1.52889	1.50521	9.804
148 Octane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloropropene	+++++ / +++++	0.30990 / +++++	0.35557	0.44104	0.55362	0.62813	0.45765	29.071
151 Ethyl Methacrylate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
153 1-Nitropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	+++++ / 0.67753	0.63741 / +++++	0.59442	0.58475	0.65774	0.64553	0.63290	5.736
156 Tetrachloroethene	+++++ / 0.68684	0.61258 / +++++	0.58709	0.60739	0.69200	0.65567	0.64026	6.900
157 1,3-Dichloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	+++++ / 0.77860	+++++ / +++++	0.44788	0.49603	0.60962	0.66412	0.59925	22.083
159 Butyl Acetate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	+++++ / 1.04032	1.01792 / +++++	0.84618	0.87115	0.99667	0.98172	0.95899	8.403
161 1,2-Dibromoethane (EDB)	+++++ / 0.96950	0.82088 / +++++	0.74722	0.80526	0.92443	0.91155	0.86314	9.829
162 1-Nonene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
164 1-Chlorohexane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	+++++ / 1.42789	1.44685 / +++++	1.22762	1.25286	1.41589	1.40544	1.36276	7.061
166 Butyl Ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	+++++ / 0.74891	0.66435 / +++++	0.61621	0.58493	0.70230	0.70583	0.67042	9.125
168 1,1,1,2-Tetrachloroethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	+++++ / 0.92930	0.73003 / +++++	0.71164	0.71826	0.86743	0.85592	0.80210	11.662
170 Nonane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	+++++ / 0.86824	0.68372 / +++++	0.60884	0.67618	0.81127	0.80485	0.74218	13.493
172 Styrene	+++++ / 1.50233	0.79007 / +++++	1.00562	1.02207	1.31866	1.31786	1.15943	22.721
173 2-Heptanone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
174 Bromoform	+++++	0.78690	0.65051	0.69382	0.79735	0.81631		
	0.87008	+++++					0.76916	10.606
175 Cumene	+++++	1.95783	1.95840	2.09825	2.55884	2.54814		
	2.75408	+++++					2.31259	15.082
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
181 1,1,2,2-Tetrachloroethane	+++++	1.16001	1.16717	1.31553	1.43344	1.45014		
	1.54864	+++++					1.34582	11.845
182 Propylbenzene	+++++	3.06467	2.75590	3.00322	3.39991	3.33285		
	3.60028	+++++					3.19280	9.621
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
184 trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
188 4-Ethyltoluene	+++++	2.12616	2.10658	2.23223	2.58640	2.58943		
	2.72346	+++++					2.39404	11.274
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
190 1,3,5-Trimethylbenzene	+++++	1.65145	1.88981	1.99246	2.24255	2.26872		
	2.33813	+++++					2.06385	12.903
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
195 tert-Butylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	+++++ / 2.21953	1.50601 / +++++	1.66818	1.79716	2.01953	2.04377	1.87570	14.167
197 Pentachloroethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

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205 2-Ethyltoluene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
206 bis(2-Chloroethyl) Ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
207 p-Cymene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3-Dichlorobenzene	+++++ / 1.26757	1.17216 / +++++	1.10577	1.13838	1.27223	1.28254	1.20644	6.399
209 1,4-Dichlorobenzene	+++++ / 1.31841	1.32060 / +++++	1.13764	1.21329	1.30935	1.30496	1.26737	5.943
210 1,2,3-Trimethylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1-Undecene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
212 alpha-Chlorotoluene	+++++ / +++++	0.68213 / +++++	0.76330	0.97274	1.09769	1.35625	0.97442	27.680
213 Butylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
214 1,2-Dichlorobenzene	+++++ / 1.21981	1.25967 / +++++	1.16571	1.16092	1.23033	1.24028	1.21279	3.343

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215 Undecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
216 4-Ethyl-1,2-dimethylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Hexachloroethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
218 1,3-Diethylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
219 1,4-Diethylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
220 1,2,4,5-tetramethylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
221 1,2-Dibromo-3-chloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1-Dodecene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
223 Nitrobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

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End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
225 Dodecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,2,4-Trichlorobenzene	+++++ / 0.70110	+++++ / +++++	0.72900	0.72362	0.62961	0.93395	0.74346	15.284
227 Hexachlorobutadiene	+++++ / 0.49204	+++++ / +++++	0.53081	0.52941	0.46536	0.63100	0.52972	11.872
228 Naphthalene	+++++ / +++++	+++++ / 1.77144	1.58209	1.72126	1.13997	2.15501	1.67395	21.883
229 1,2,3-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
230 Tridecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
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 : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
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 : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
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 : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
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	1.85989 / 1.72979	1.86119 / +++++	1.82836	1.84506	1.81742	1.79219	1.81913	2.549
$ 146 Toluene-d8	1.09676 / 1.12861	1.07938 / +++++	1.11353	1.09413	1.11773	1.12442	1.10779	1.630
$ 177 4-Bromofluorobenzene	0.49666 / 0.52138	0.49085 / +++++	0.48064	0.50578	0.50738	0.50788	0.50151	2.651

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:34 cbond
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 12.3608064                 |
|Maximun Average %RSD    =         30                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/msd14.i/12feb16.b/14650212a.m
Start Cal Date: 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 3.00000		
12-FEB-2016 12:35	Benzene	/chem/msd14.i/12feb16.b/14021209.d
Cal Level: 2 , Cal Amount: 5.00000		
12-FEB-2016 13:21	Level2	/chem/msd14.i/12feb16.b/14021210.d
Cal Level: 3 , Cal Amount: 20.00000		
12-FEB-2016 13:44	AT12NaphLow	/chem/msd14.i/12feb16.b/14021211.d
Cal Level: 4 , Cal Amount: 50.00000		
12-FEB-2016 14:05	AT12	/chem/msd14.i/12feb16.b/14021212.d
Cal Level: 5 , Cal Amount: 100.00000		
12-FEB-2016 14:28	AT12	/chem/msd14.i/12feb16.b/14021213.d
Cal Level: 6 , Cal Amount: 200.00000		
12-FEB-2016 14:48	AT12	/chem/msd14.i/12feb16.b/14021214.d
Cal Level: 7 , Cal Amount: 1000.00000		
12-FEB-2016 15:07	AT12NoOxyNaph	/chem/msd14.i/12feb16.b/14021215.d
Cal Level: 9 , Cal Amount: 5000.00000		

```
|12-FEB-2016 15:25 |NaphICAL         |/chem/msd14.i/12feb16.b/14021216.d      |
+------------------+-----------------+----------------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5
+------------------+-----------------+----------------------------------------+
| Ccal Level: 5 , Ccal Amount: 100.00                                          |
+==============================================================================+
|12-FEB-2016 14:28 |AT12             |/chem/msd14.i/12feb16.b/14021213.d      |
+------------------+-----------------+----------------------------------------+
| Ccal Level: 5 , Ccal Amount: 100.00                                          |
+==============================================================================+
|12-FEB-2016 14:28 |AT12             |/chem/msd14.i/12feb16.b/14021213a.d     |
+------------------+-----------------+----------------------------------------+
```

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-FEB-2016 12:35
End Cal Date : 12-FEB-2016 15:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/12feb16.b/14650212a.m
Cal Date : 12-Feb-2016 16:26 cbond
Curve Type : Average

CB
2/12/16

MB 2/12/16

Calibration File Names:
Level 1: /chem/msd14.i/12feb16.b/14021209.d
Level 2: /chem/msd14.i/12feb16.b/14021210.d
Level 3: /chem/msd14.i/12feb16.b/14021211.d
Level 4: /chem/msd14.i/12feb16.b/14021212.d
Level 5: /chem/msd14.i/12feb16.b/14021213.d
Level 6: /chem/msd14.i/12feb16.b/14021214.d
Level 7: /chem/msd14.i/12feb16.b/14021215.d
Level 9: /chem/msd14.i/12feb16.b/14021216.d

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 5000.000 Level 9	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
9 Propylene	+++++	+++++	1.29539	1.39641	1.46306	1.29631		
	1.39163	+++++					1.36856	5.271
11 Freon 12	+++++	5.06364	4.43340	4.62424	5.17151	4.69408		
	4.90433	+++++					4.81520	5.826
15 Freon 114	+++++	2.50476	2.51704	2.52519	2.94160	2.74762		
	2.87246	+++++					2.68478	7.283
17 Chloromethane	+++++	+++++	2.21396	2.10637	2.30171	2.03976		
	1.83468	+++++					2.09929	8.512
23 Butane	+++++	+++++	0.48883	0.49995	0.55043	0.48619		
	0.50977	+++++					0.50703	5.131
25 Vinyl Chloride	+++++	2.29907	1.98843	2.17324	2.37848	2.17850		
	2.25134	+++++					2.21151	6.048
26 1,3-Butadiene	+++++	1.95266	1.53955	1.60689	1.81570	1.71436		
	1.76827	+++++					1.73290	8.560

14650212A.M
Initial Calibration Narrative

An initial calibration was performed on 2/12/16.

ICAL: One (1) out; MTBE @ 33% RSD

NO Vinyl Acetate.

ICV: **1 out.** File #1402191.

DOD passed 4.2 and 5.0 full list.

All compounds calibrated at 5.0, 20, 50, 100, 200 and 1000ppbv except the following:

Naphthalene calibrated at 2, 5, 10, 20, and 500ppbv.

Benzene was calibrated with a special R.L. of 3.0ppbv.

Oxygenates were calibrated at 20, 50, 100 and 200ppbv (4 point ICAL).

MTBE, trans-1,3-Dichlorpropene, and alpha-Chlorotoluene calibrated at 5, 20, 50, 100, 200.

BFB Tune File: 14021208.

MDL: 5/26/15 and 5/27/15; Naphthalene MDL analyzed 6/4/15. **No MDL** for **Vinyl Acetate.**

Eurofins Air Toxics, Inc. **MSD-14** **Logbook #: 2756**

BFB Verification of 176/174 m/z Ratio:	(20933 / 21800) × 100 = 96.02%
Method Name:	14650212A

IS/S Std. #: 2759-228	Exp. Date: 5/5/16
BCM	118896
1,4-DFB	558564
CB-d5	461241
Verified CCV IS vs ICAL mid-point (-40%D):	CB

0215 of 0605

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

Calculation Check: File ID: 14021213
Compound: Toluene
Initials: MJS

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \frac{(624321)}{(558564)} \times \frac{(400)}{(1.10779)}$ = Reported Result: 403.59

	Use	File	Lab ID#	Can#	Pressure	Amount Loaded	Verified Vol Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	14021208	BFB Tune Check	2299-1275	50ng	2uL	MA	1.00	CB	2/12/16	1222	CB	
2	✓	09	ICAL Level 1	2759-187	3.0ppbv	30mL			CB		1235	CB	exp 4/6/16
3	✓	10	2	↓	5.0ppbv	50mL			CB		1321	CB	
4	✓	11	3	2759-212	20ppbv	5.0mL			CB		1344	CB	
5	✓	12	4		50ppbv	12.5mL			CB		1405	CB	
6	✓	13	5		100ppbv	25mL			CB		1428	CB	CCV
7	✓	14	6	↓	200ppbv	50mL			CB		1448	CB	↓
8	✓	15	7	2516-208	1000ppbv	50mL			CB		1507	CB	exp 3/11/16
9	✓	16	9	2759-169A	500ppbv	25mL			CB		1525	CB	exp 4/6/16 Nitrogen only
10	X	17	System Blank	34496	Humid	50mL			CB		1549	CB	
11	✓	18	System Blank	↓	↓	↓			CB		1614	CB	
12	✓	19	ICV (100ppbv)	2759-104A	100ppbv	50mL			CB		1638	MJS	exp 2/24/16, 10V+↓
13													
14													
15											MJS	2/12/16	

Reviewed Date

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/msd14.i/12feb16.b/14021219.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 12-FEB-2016 16:38
Operator : cb Inst ID: msd14.i
Smp Info : 50mL #2759-104A
Misc Info : 100ppbv (100ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 16:34 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 14:28 Cal File: 14021213.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	130022	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	99517			46.39- 106.39	76.54
4.739	4.739 (1.000)	49	224431			150.71- 210.71	172.61
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	597363	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	102733			0.00- 47.48	17.20
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	487401	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	321918			37.59- 97.59	66.05
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	232417	393.050	393.05	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	124688			24.07- 84.07	53.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	654252	395.465	395.46	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	74276			0.00- 41.71	11.35
7.621	7.621 (1.304)	100	421065			32.73- 92.73	64.36
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	247590	405.158	405.16	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	424432			142.84- 202.84	171.43
10.937	10.937 (1.114)	176	240203			67.70- 127.70	97.02
9 Propylene					CAS #: 115-07-1		
1.241	1.227 (0.262)	41	36796	82.7142	82.714	80.00- 120.00	100.00
1.241	1.227 (0.262)	42	23757			37.96- 97.96	64.56
1.241	1.227 (0.262)	39	25729			36.73- 96.73	69.92
11 Freon 12					CAS #: 75-71-8		
1.269	1.255 (0.268)	85	129258	82.5821	82.582	80.00- 120.00	100.00
1.269	1.255 (0.268)	87	42619			1.63- 61.63	32.97
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	75956	87.0356	87.036	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	24068			2.50- 62.50	31.69
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	51299	75.1759	75.176	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	15580			1.39- 61.39	30.37
23 Butane					CAS #: 106-97-8		
1.465	1.464 (0.309)	58	13223	80.2301	80.230	80.00- 120.00	100.00
1.465	1.464 (0.309)	43	73466			511.27- 571.27	555.59
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.506 (0.318)	62	58596	81.5121	81.512	80.00- 120.00	100.00
1.507	1.506 (0.318)	64	18239			0.78- 60.78	31.13
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.520 (0.321)	54	43528	77.2747	77.275	80.00- 120.00	100.00
1.521	1.520 (0.321)	39	32539			41.76- 101.76	74.75
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	30152	75.6796	75.680	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	30626			66.30- 126.30	101.57
1.814	1.814 (0.383)	79	4897			0.00- 44.41	16.24
30 Chloroethane					CAS #: 75-00-3		
1.898	1.884 (0.401)	64	30000	92.3531	92.353	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.884 (0.401)	66	8294			2.16- 62.16	27.65
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	56077	86.0257	86.026	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	45958			52.83- 112.83	81.96
1.912	1.912 (0.404)	72	5234			0.00- 38.88	9.33
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	116968	83.2197	83.220	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	76870			34.93- 94.93	65.72
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	19410	59.8792	59.879	80.00- 120.00	100.00(R)
2.360	2.360 (0.498)	43	4308			0.00- 52.67	22.19
2.360	2.360 (0.498)	46	8338			12.37- 72.37	42.96
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	61972	78.3507	78.351	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	40092			34.36- 94.36	64.69
2.584	2.584 (0.545)	101	99202			119.53- 179.53	160.08
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	93998	76.6652	76.665	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	47318			21.57- 81.57	50.34
2.612	2.612 (0.551)	98	31315			1.98- 61.98	33.31
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	28784	83.0576	83.058	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	74537			233.69- 293.69	258.95
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	126554	71.8912	71.891	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	75647	85.1868	85.187	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	18765			0.00- 53.85	24.81
2.878	2.878 (0.607)	59	3282			0.00- 34.34	4.34
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	18945	80.6247	80.625	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	44161			227.89- 287.89	233.10
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	60069	74.8646	74.865	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	45918			40.30- 100.30	76.44

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	20086			1.79- 61.79	33.44
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.354	3.353 (0.708)	73	56324	105.558	105.56	80.00- 120.00	100.00
3.354	3.353 (0.708)	57	15399			0.00- 58.10	27.34
3.354	3.353 (0.708)	41	13543			0.00- 57.12	24.04
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	41735	70.4598	70.460	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	70520			142.56- 202.56	168.97
3.381	3.381 (0.714)	98	27204			36.64- 96.64	65.18
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	88784	79.8084	79.808	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	47390			21.59- 81.59	53.38
3.577	3.577 (0.755)	86	14052			0.00- 46.40	15.83
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.857 (0.814)	63	101554	81.3290	81.329	80.00- 120.00	100.00
3.857	3.857 (0.814)	65	31838			0.00- 59.48	31.35
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	14052			80.00- 120.00	100.00(aR)
3.577	3.577 (0.755)	43	47390			284.51- 344.51	337.25
3.577	3.577 (0.755)	42	24862			138.34- 198.34	176.93
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	84909	88.1299	88.130	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	56841			32.15- 92.15	66.94
4.487	4.487 (0.947)	98	34519			10.13- 70.13	40.65
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	22559	86.0595	86.060	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	81687			379.79- 439.79	362.10
4.515	4.515 (0.953)	57	7303			6.25- 66.25	32.37
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	49341	80.2085	80.208	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	21162			11.50- 71.50	42.89
4.725	4.725 (0.997)	72	22281			12.84- 72.84	45.16
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	105130	80.3950	80.395	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	64968			32.14- 92.14	61.80

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.920 (1.038)	84	67057	78.1488	78.149	80.00- 120.00	100.00
4.921	4.920 (1.038)	56	92951			99.79- 159.79	138.61
4.921	4.920 (1.038)	41	41596			28.40- 88.40	62.03
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.948 (1.044)	97	94780	85.0141	85.014	80.00- 120.00	100.00
4.949	4.948 (1.044)	99	60993			36.51- 96.51	64.35
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	79251	81.7522	81.752	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	88330			75.71- 135.71	111.46
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	285543	81.0620	81.062	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	100875			4.19- 64.19	35.33
5.326	5.326 (1.124)	41	61761			0.00- 50.55	21.63
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	157731	82.0748	82.075	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	38551			0.00- 53.33	24.44
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	76500	81.7350	81.735	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	24089			1.49- 61.49	31.49
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	52955	80.1454	80.145	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	86328			128.82- 188.82	163.02
5.564	5.564 (0.952)	100	17243			0.00- 59.89	32.56
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	69513	74.3328	74.333	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	60348			53.70- 113.70	86.82
6.082	6.082 (1.041)	97	44071			34.03- 94.03	63.40
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	92199	78.5094	78.509	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	44719			15.61- 75.61	48.50
6.194	6.194 (1.060)	55	90968			65.29- 125.29	98.66
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	67751	84.0478	84.048	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	46733			44.72- 104.72	68.98
6.390	6.390 (1.093)	41	31064			18.10- 78.10	45.85

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	32677	79.0177	79.018	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	28312			60.63- 120.63	86.64
6.530	6.530 (1.117)	57	8467			0.00- 59.33	25.91
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.725 (1.151)	83	114862	82.0145	82.014	80.00- 120.00	100.00
6.726	6.725 (1.151)	85	70317			28.84- 88.84	61.22
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	74171	85.2397	85.240	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	21912			2.17- 62.17	29.54
7.327	7.327 (1.254)	39	33092			14.65- 74.65	44.62
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	16707	86.2628	86.263	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	101878			589.74- 649.74	609.79
7.565	7.565 (1.294)	58	54025			296.38- 356.38	323.37
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	180079	80.1102	80.110	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	106843			28.91- 88.91	59.33
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	53570	96.0639	96.064	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	17801			2.18- 62.18	33.23
8.293	8.293 (0.845)	39	23167			10.13- 70.13	43.25
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	63917	82.8815	82.882	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	38535			34.34- 94.34	60.29
8.614	8.614 (0.877)	83	56785			63.48- 123.48	88.84
156 Tetrachloroethene					CAS #: 127-18-4		
8.614	8.628 (0.877)	166	66442	85.1643	85.164	80.00- 120.00	100.00
8.614	8.628 (0.877)	129	53918			51.36- 111.36	81.15
8.614	8.628 (0.877)	131	49801			49.19- 109.19	74.95
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	56848	77.8540	77.854	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	89820			125.38- 185.38	158.00
8.992	9.006 (0.916)	100	10243			0.00- 48.37	18.02
160 Dibromochloromethane					CAS #: 124-48-1		
9.146	9.160 (0.932)	129	95500	81.7262	81.726	80.00- 120.00	100.00
9.146	9.160 (0.932)	127	72606			47.63- 107.63	76.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	88144	83.8080	83.808	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	82462			61.71- 121.71	93.55
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	132071	79.5357	79.536	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	41968			1.37- 61.37	31.78
9.846	9.846 (1.003)	77	93641			39.20- 99.20	70.90
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	66452	81.3456	81.346	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	225395			310.29- 370.29	339.18
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.083 (1.027)	106	79842	81.6919	81.692	80.00- 120.00	100.00
10.084	10.083 (1.027)	91	174294			185.45- 245.45	218.30
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	78940	87.2891	87.289	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	172314			196.57- 256.57	218.28
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	122676	86.8335	86.833	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	69811			26.62- 86.62	56.91
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	100852	107.607	107.61	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	52603			22.90- 82.90	52.16
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	248554	88.2054	88.205	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	57482			0.00- 55.02	23.13
10.769	10.769 (1.097)	51	27821			0.00- 41.92	11.19
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	145599	88.7858	88.786	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	87368			28.86- 88.86	60.01
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	327775	84.2514	84.251	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	64520			0.00- 49.36	19.68
11.105	11.105 (1.131)	105	12464			0.00- 33.72	3.80
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	243280	83.3965	83.396	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	66800			0.00- 57.25	27.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	209531	83.3188	83.319	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	91860			15.00- 75.00	43.84
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	184228	80.6059	80.606	80.00- 120.00	100.00
11.511	11.497 (1.172)	120	80605			10.76- 70.76	43.75
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	119930	81.5821	81.582	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	75226			32.32- 92.32	62.72
11.693	11.707 (1.191)	111	55605			17.13- 77.13	46.36
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.762 (1.198)	146	126293	81.7802	81.780	80.00- 120.00	100.00
11.763	11.762 (1.198)	148	78070			33.76- 93.76	61.82
11.763	11.762 (1.198)	111	52599			14.33- 74.33	41.65
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.860 (1.208)	91	115004	96.8590	96.859	80.00- 120.00	100.00
11.861	11.860 (1.208)	126	20612			0.00- 48.64	17.92
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	114694	77.6121	77.612	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	73908			32.13- 92.13	64.44
11.986	11.986 (1.221)	111	55291			17.47- 77.47	48.21
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	68953	76.1151	76.115	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	63884			61.06- 121.06	92.65
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	52037	80.6188	80.619	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	30741			36.08- 96.08	59.08
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	15920	7.80501	7.805	80.00- 120.00	100.00(a)
12.966	12.966 (1.321)	127	1959			0.00- 42.87	12.31

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14021219.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 100ppbv (100ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	130022	9.36
123 1,4-Difluorobenze	558564	335138	781990	597363	6.95
163 Chlorobenzene-d5	461241	276745	645737	487401	5.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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: 12-Feb-2016 17:02

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 12feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: ICV
Level: LOW
Operator: cb
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 100ppbv (100ppbv)

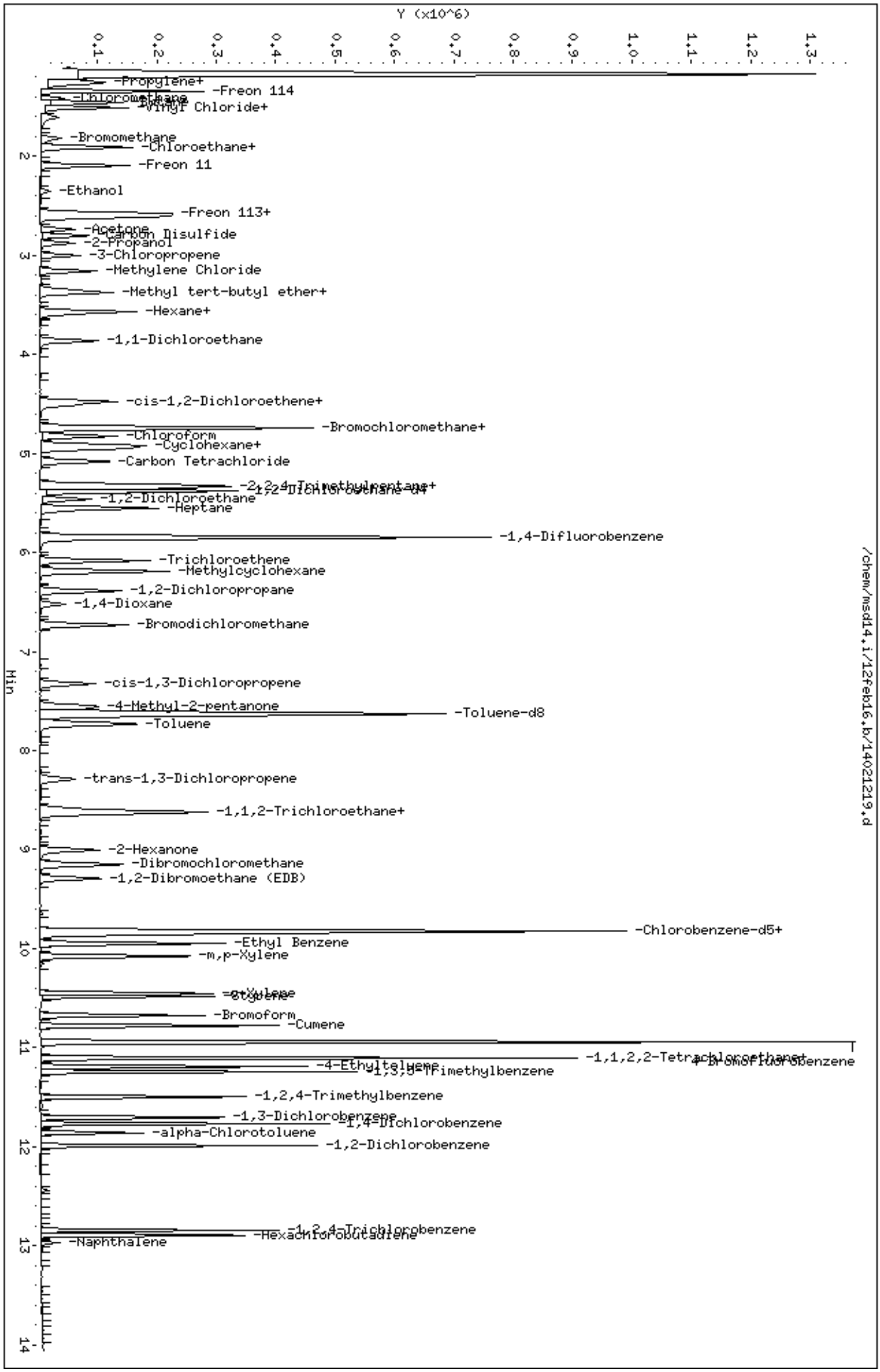
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	100.00	82.714	82.71	60-140
11 Freon 12	100.00	82.582	82.58	70-130
15 Freon 114	100.00	87.036	87.04	70-130
17 Chloromethane	100.00	75.176	75.18	70-130
23 Butane	100.00	80.230	80.23	60-140
25 Vinyl Chloride	100.00	81.512	81.51	70-130
26 1,3-Butadiene	100.00	77.275	77.27	70-130
29 Bromomethane	100.00	75.680	75.68	70-130
30 Chloroethane	100.00	92.353	92.35	70-130
31 Isopentane	100.00	86.026	86.03	60-140
35 Freon 11	100.00	83.220	83.22	70-130
42 Ethanol	100.00	59.879	59.88*	70-130
49 Freon 113	100.00	78.351	78.35	70-130
50 1,1-Dichloroethene	100.00	76.665	76.67	70-130
52 Acetone	100.00	83.058	83.06	70-130
56 Carbon Disulfide	100.00	71.891	71.89	70-130
57 2-Propanol	100.00	85.187	85.19	70-130
58 3-Chloropropene	100.00	80.625	80.62	70-130
66 Methylene Chloride	100.00	74.865	74.86	70-130
72 Methyl tert-butyl	100.00	105.56	105.56	70-130
73 trans-1,2-Dichloro	85.000	70.460	82.89	70-130
78 Hexane	100.00	79.808	79.81	70-130
82 1,1-Dichloroethane	100.00	81.329	81.33	70-130
86 Vinyl Acetate	100.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	113.00	88.130	77.99	70-130
92 2-Butanone	100.00	86.060	86.06	70-130
99 Tetrahydrofuran	100.00	80.208	80.21	70-130
100 Chloroform	100.00	80.395	80.40	70-130
103 1,1,1-Trichloroeth	100.00	85.014	85.01	70-130
106 Carbon Tetrachlori	100.00	81.752	81.75	70-130
102 Cyclohexane	100.00	78.149	78.15	70-130
113 2,2,4-Trimethylpen	100.00	81.062	81.06	70-130
116 Benzene	100.00	82.075	82.07	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	100.00	81.735	81.74	70-130
121 Heptane	100.00	80.145	80.15	70-130
125 Trichloroethene	100.00	74.333	74.33	70-130
127 Methylcyclohexane	100.00	78.509	78.51	60-140
132 1,2-Dichloropropan	100.00	84.048	84.05	70-130
136 1,4-Dioxane	100.00	79.018	79.02	70-130
138 Bromodichlorometha	100.00	82.014	82.01	70-130
144 cis-1,3-Dichloropr	100.00	85.240	85.24	70-130
145 4-Methyl-2-pentano	100.00	86.263	86.26	70-130
147 Toluene	100.00	80.110	80.11	70-130
150 trans-1,3-Dichloro	100.00	96.064	96.06	70-130
155 1,1,2-Trichloroeth	100.00	82.882	82.88	70-130
156 Tetrachloroethene	100.00	85.164	85.16	70-130
158 2-Hexanone	100.00	77.854	77.85	70-130
160 Dibromochlorometha	100.00	81.726	81.73	70-130
161 1,2-Dibromoethane	100.00	83.808	83.81	70-130
165 Chlorobenzene	100.00	79.536	79.54	70-130
167 Ethyl Benzene	100.00	81.346	81.35	70-130
169 m,p-Xylene	100.00	81.692	81.69	70-130
171 o-Xylene	100.00	87.289	87.29	70-130
172 Styrene	100.00	86.833	86.83	70-130
174 Bromoform	130.00	107.61	82.77	70-130
175 Cumene	100.00	88.205	88.21	70-130
181 1,1,2,2-Tetrachlor	100.00	88.786	88.79	70-130
182 Propylbenzene	100.00	84.251	84.25	70-130
188 4-Ethyltoluene	100.00	83.396	83.40	70-130
190 1,3,5-Trimethylben	100.00	83.319	83.32	70-130
196 1,2,4-Trimethylben	100.00	80.606	80.61	70-130
208 1,3-Dichlorobenzen	100.00	81.582	81.58	70-130
209 1,4-Dichlorobenzen	100.00	81.780	81.78	70-130
212 alpha-Chlorotoluen	100.00	96.859	96.86	70-130
214 1,2-Dichlorobenzen	100.00	77.612	77.61	70-130
226 1,2,4-Trichloroben	100.00	76.115	76.12	70-130
227 Hexachlorobutadien	100.00	80.619	80.62	70-130
228 Naphthalene	10.000	7.805	78.05	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	393.05	98.26	70-130
$ 146 Toluene-d8	400.00	395.46	98.87	70-130
$ 177 4-Bromofluorobenze	400.00	405.16	101.29	70-130

Data File: /chem/msd14.i/12feb16.b/14021219.d
Date : 12-FEB-2016 16:38
Client ID: ICV
Sample Info: 50mL #2759-104A
Column phase: RTX-624

Instrument: msd14.i
Operator: cb
Column diameter: 0.18



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021209.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 12-FEB-2016 12:35
Operator : cb Inst ID: msd14.i
Smp Info : 30ml #2759-187
Misc Info : 3.0ppbv (5.0ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 15:50 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 12:35 Cal File: 14021209.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzene.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	118230	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	92581			46.39- 106.39	78.31
4.739	4.739 (1.000)	49	212720			150.71- 210.71	179.92
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	219895	400.000	408.96	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	115052			24.07- 84.07	52.32
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	531842	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	91730			0.00- 47.48	17.25
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	583302	400.000	396.02	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	68400			0.00- 41.71	11.73
7.621	7.621 (1.304)	100	367946			32.73- 92.73	63.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	446587	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	302280			37.59- 97.59	67.69
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	221803	400.000	396.13	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	377339			142.84- 202.84	170.12
10.937	10.937 (1.114)	176	211644			67.70- 127.70	95.42
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	4735	3.00000	2.767	80.00- 120.00	100.00(a)
5.354	5.354 (0.916)	77	1396			0.00- 53.33	29.48

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: msd14.i
Lab File ID: 14021209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 3.0ppbv (5.0ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	118230	-0.56
123 1,4-Difluorobenze	558564	335138	781990	531842	-4.78
163 Chlorobenzene-d5	461241	276745	645737	446587	-3.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021209.d

Date : 12-FEB-2016 12:35

Client ID: Level 1

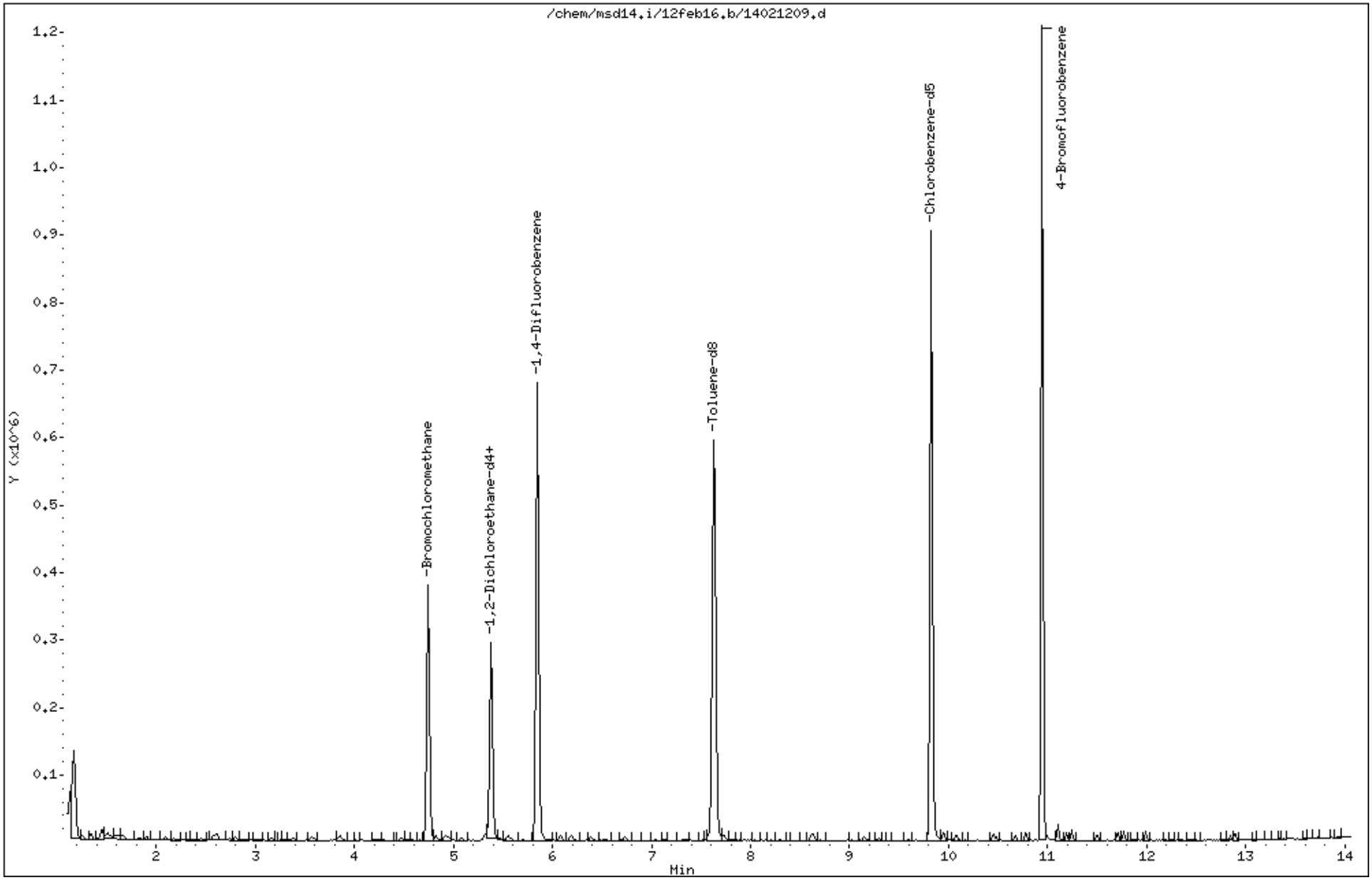
Sample Info: 30ml #2759-187

Column phase: RTX-624

Instrument: msd14.i

Operator: cb

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021210.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 12-FEB-2016 13:21
Operator : cb Inst ID: msd14.i
Smp Info : 50ml #2759-187
Misc Info : 5.0ppbv (5.0ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 15:50 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 13:21 Cal File: 14021210.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level2.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	118239	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	92666			46.39- 106.39	78.37
4.739	4.739 (1.000)	49	214845			150.71- 210.71	181.70
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	540821	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	92775			0.00- 47.48	17.15
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	454340	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	305319			37.59- 97.59	67.20
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	220065	400.000	409.25	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	114126			24.07- 84.07	51.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	583751	400.000	389.74	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	69994			0.00- 41.71	11.99
7.621	7.621 (1.304)	100	373684			32.73- 92.73	64.01
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	223015	400.000	391.50	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	380053			142.84- 202.84	170.42
10.937	10.937 (1.114)	176	211424			67.70- 127.70	94.80
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	7484	5.00000	5.258	80.00- 120.00	100.00
1.255	1.255 (0.265)	87	2645			1.63- 61.63	35.34
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	3702	5.00000	4.665	80.00- 120.00	100.00(a)
1.353	1.353 (0.285)	137	1264			2.50- 62.50	34.14
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.506 (0.318)	62	3398	5.00000	5.198	80.00- 120.00	100.00
1.506	1.506 (0.318)	64	1179			0.78- 60.78	34.70
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.321)	54	2886	5.00000	5.634	80.00- 120.00	100.00
1.520	1.520 (0.321)	39	2777			41.76- 101.76	96.22
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	2633	5.00000	7.267	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	2102			66.30- 126.30	79.83
1.814	1.814 (0.383)	79	873			0.00- 44.41	33.16
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	6931	5.00000	5.423	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	4476			34.93- 94.93	64.58
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	3800	5.00000	5.283	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	2202			34.36- 94.36	57.95
2.584	2.584 (0.545)	101	6034			119.53- 179.53	158.79
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	6103	5.00000	5.474	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	3913			21.57- 81.57	64.12
2.612	2.612 (0.551)	98	2253			1.98- 61.98	36.92
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	8392	5.00000	5.242	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	4595	5.00000	6.297	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	3635			40.30- 100.30	79.11
3.158	3.158 (0.666)	51	1335			1.79- 61.79	29.05
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	1548	5.00000	3.190	80.00- 120.00	100.00(a)
3.353	3.353 (0.708)	57	373			0.00- 58.10	24.10
3.353	3.353 (0.708)	41	696			0.00- 57.12	44.96
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	2908	5.00000	5.399	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	5071			142.56- 202.56	174.38
3.381	3.381 (0.714)	98	1900			36.64- 96.64	65.34
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	5197	5.00000	5.137	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	3046			21.59- 81.59	58.61
3.591	3.591 (0.758)	86	1038			0.00- 46.40	19.97
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.857 (0.814)	63	5444	5.00000	4.794	80.00- 120.00	100.00(a)
3.857	3.857 (0.814)	65	1604			0.00- 59.48	29.46
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.473	4.473 (0.944)	61	4404	5.00000	5.026	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	3320			32.15- 92.15	75.39
4.487	4.487 (0.947)	98	2200			10.13- 70.13	49.95
99 Tetrahydrofuran					CAS #: 109-99-9		
4.739	4.739 (1.000)	42	2817	5.00000	5.036	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	1124			11.50- 71.50	39.90
4.739	4.739 (1.000)	72	1216			12.84- 72.84	43.17
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	6290	5.00000	5.289	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	4104			32.14- 92.14	65.25
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.920 (1.038)	84	4286	5.00000	5.493	80.00- 120.00	100.00
4.920	4.920 (1.038)	56	5393			99.79- 159.79	125.83
4.920	4.920 (1.038)	41	2692			28.40- 88.40	62.81
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.948 (1.044)	97	4501	5.00000	4.440	80.00- 120.00	100.00(a)
4.948	4.948 (1.044)	99	2751			36.51- 96.51	61.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	3493	5.00000	3.962	80.00- 120.00	100.00(a)
5.074	5.074 (1.071)	117	4202			75.71- 135.71	120.30
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	15699	5.00000	4.901	80.00- 120.00	100.00(a)
5.326	5.326 (1.124)	56	5976			4.19- 64.19	38.07
5.326	5.326 (1.124)	41	3443			0.00- 50.55	21.93
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	9418	5.00000	5.413	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	2136			0.00- 53.33	22.68
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	4137	5.00000	4.882	80.00- 120.00	100.00(a)
5.466	5.466 (0.935)	64	1793			1.49- 61.49	43.34
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	3002	5.00000	5.018	80.00- 120.00	100.00
5.550	5.550 (0.950)	43	4351			128.82- 188.82	144.94
5.564	5.564 (0.952)	100	914			0.00- 59.89	30.45
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	5399	5.00000	6.377	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	4292			53.70- 113.70	79.50
6.082	6.082 (1.041)	97	3085			34.03- 94.03	57.14
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	5921	5.00000	5.569	80.00- 120.00	100.00(a)
6.194	6.194 (1.060)	98	2474			15.61- 75.61	41.78
6.194	6.194 (1.060)	55	5337			65.29- 125.29	90.14
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	3731	5.00000	5.112	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	2670			44.72- 104.72	71.56
6.390	6.390 (1.093)	41	2332			18.10- 78.10	62.50
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	6806	5.00000	5.368	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	4100			28.84- 88.84	60.24
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	2457	5.00000	3.119	80.00- 120.00	100.00(a)
7.341	7.341 (1.256)	77	850			2.17- 62.17	34.60
7.341	7.341 (1.256)	39	1484			14.65- 74.65	60.40

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

  145 4-Methyl-2-pentanone                          CAS #: 108-10-1
  7.551   7.551 (1.292)    85       626 5.00000    3.570  80.00- 120.00   100.00(a)
  7.565   7.565 (1.294)    43      5403                  589.74- 649.74   863.10
  7.565   7.565 (1.294)    58      1640                  296.38- 356.38   261.98
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.733   7.733 (1.323)    91     11277 5.00000    5.541  80.00- 120.00   100.00
  7.733   7.733 (1.323)    92      6674                   28.91-  88.91    59.18
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                     CAS #: 10061-02-6
  8.307   8.307 (0.846)    75      1760 5.00000    3.386  80.00- 120.00   100.00(a)
  8.293   8.293 (0.845)    77       308                    2.18-  62.18    17.50
  8.279   8.279 (0.843)    39       433                   10.13-  70.13    24.60
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                         CAS #: 79-00-5
  8.614   8.614 (0.877)    97      3620 5.00000    5.036  80.00- 120.00   100.00
  8.614   8.614 (0.877)    99      2107                   34.34-  94.34    58.20
  8.614   8.614 (0.877)    83      3396                   63.48- 123.48    93.81
-------------------------------------------------------------------------------
  156 Tetrachloroethene                             CAS #: 127-18-4
  8.614   8.614 (0.877)   166      3479 5.00000    4.784  80.00- 120.00   100.00(a)
  8.614   8.614 (0.877)   129      3214                   51.36- 111.36    92.38
  8.614   8.614 (0.877)   131      2806                   49.19- 109.19    80.66
-------------------------------------------------------------------------------
  160 Dibromochloromethane                          CAS #: 124-48-1
  9.160   9.160 (0.933)   129      5781 5.00000    5.307  80.00- 120.00   100.00
  9.146   9.146 (0.932)   127      3627                   47.63- 107.63    62.74
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                       CAS #: 106-93-4
  9.300   9.300 (0.947)   107      4662 5.00000    4.755  80.00- 120.00   100.00(a)
  9.286   9.286 (0.946)   109      4611                   61.71- 121.71    98.91
-------------------------------------------------------------------------------
  165 Chlorobenzene                                 CAS #: 108-90-7
  9.846   9.846 (1.003)   112      8217 5.00000    5.308  80.00- 120.00   100.00
  9.860   9.860 (1.004)   114      3234                    1.37-  61.37    39.36
  9.818   9.818 (1.000)    77     10558                   39.20-  99.20   128.49
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                 CAS #: 100-41-4
  9.944   9.944 (1.013)   106      3773 5.00000    4.955  80.00- 120.00   100.00(a)
  9.944   9.944 (1.013)    91     13079                  310.29- 370.29   346.65
-------------------------------------------------------------------------------
  169 m,p-Xylene                                    CAS #: 108-38-3
 10.084  10.084 (1.027)   106      4146 5.00000    4.551  80.00- 120.00   100.00(a)
 10.069  10.069 (1.026)    91      9990                  185.45- 245.45   240.96
-------------------------------------------------------------------------------
  171 o-Xylene                                      CAS #: 95-47-6
 10.461  10.461 (1.066)   106      3883 5.00000    4.606  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
171 o-Xylene (continued)							
10.461	10.461 (1.066)	91	8961			196.57- 256.57	230.78
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	4487	5.00000	3.407	80.00- 120.00	100.00(a)
10.489	10.489 (1.068)	78	2462			26.62- 86.62	54.87
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	4469	5.00000	5.115	80.00- 120.00	100.00(a)
10.671	10.671 (1.087)	171	2386			22.90- 82.90	53.39
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	11119	5.00000	4.233	80.00- 120.00	100.00(a)
10.769	10.769 (1.097)	120	2814			0.00- 55.02	25.31
10.769	10.769 (1.097)	51	1356			0.00- 41.92	12.20
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	6588	5.00000	4.310	80.00- 120.00	100.00(a)
11.105	11.105 (1.131)	85	3546			28.86- 88.86	53.83
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	17405	5.00000	4.799	80.00- 120.00	100.00(a)
11.105	11.105 (1.131)	120	2969			0.00- 49.36	17.06
11.105	11.105 (1.131)	105	681			0.00- 33.72	3.91
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	12075	5.00000	4.440	80.00- 120.00	100.00(a)
11.189	11.189 (1.140)	120	3049			0.00- 57.25	25.25
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	9379	5.00000	4.001	80.00- 120.00	100.00(a)
11.245	11.245 (1.145)	120	4310			15.00- 75.00	45.95
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	8553	5.00000	4.014	80.00- 120.00	100.00(a)
11.511	11.511 (1.172)	120	3389			10.76- 70.76	39.62
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	6657	5.00000	4.858	80.00- 120.00	100.00(a)
11.707	11.707 (1.192)	148	4375			32.32- 92.32	65.72
11.707	11.707 (1.192)	111	3049			17.13- 77.13	45.80
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	7500	5.00000	5.210	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	4125			33.76- 93.76	55.00
11.763	11.763 (1.198)	111	3075			14.33- 74.33	41.00

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
212 alpha-Chlorotoluene						CAS #: 100-44-7		
11.860	11.860	(1.208)	91	3874	5.00000	3.500	80.00- 120.00	100.00(a)
11.860	11.860	(1.208)	126	716			0.00- 48.64	18.48
214 1,2-Dichlorobenzene						CAS #: 95-50-1		
11.986	11.986	(1.221)	146	7154	5.00000	5.193	80.00- 120.00	100.00
11.986	11.986	(1.221)	148	3794			32.13- 92.13	53.03
11.986	11.986	(1.221)	111	3093			17.47- 77.47	43.23

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: msd14.i
Lab File ID: 14021210.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	118239	-0.55
123 1,4-Difluorobenze	558564	335138	781990	540821	-3.18
163 Chlorobenzene-d5	461241	276745	645737	454340	-1.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021210.d

Date : 12-FEB-2016 13:21

Client ID: Level 2

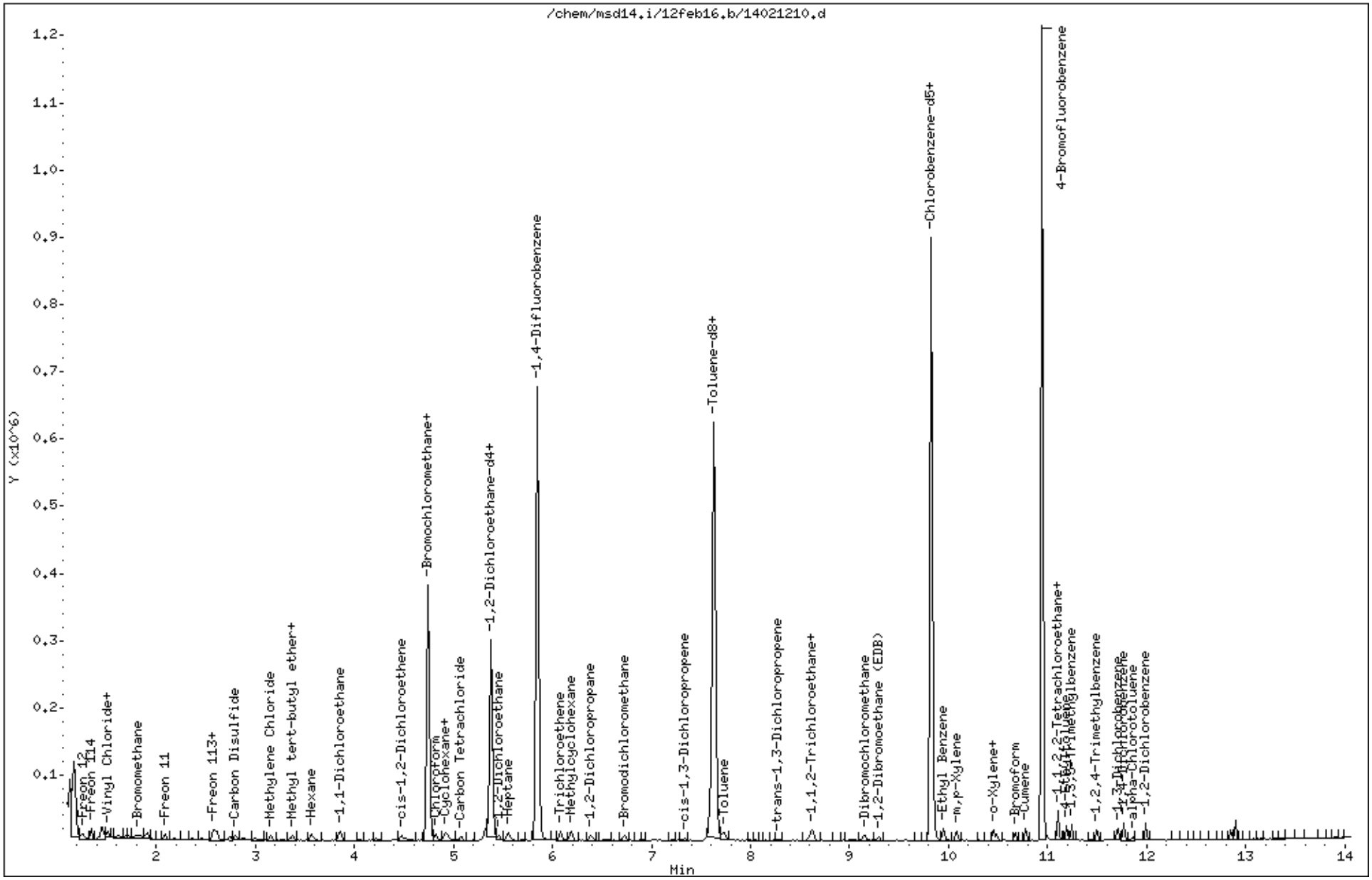
Sample Info: 50ml #2759-187

Column phase: RTX-624

Instrument: msd14.i

Operator: cb

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021211.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 12-FEB-2016 13:44
Operator : cb Inst ID: msd14.i
Smp Info : 5.0ml #2759-212
Misc Info : 20ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 15:50 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 13:44 Cal File: 14021211.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12NaphLow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	120165	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	95297			46.39- 106.39	79.31
4.739	4.739 (1.000)	49	211427			150.71- 210.71	175.95
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	531164	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	91138			0.00- 47.48	17.16
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	436764	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	293223			37.59- 97.59	67.14
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	219705	400.000	402.03	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	110942			24.07- 84.07	50.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	591467	400.000	402.07	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	66438			0.00- 41.71	11.23
7.621	7.621 (1.304)	100	361514			32.73- 92.73	61.12
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	209928	400.000	383.36	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	364805			142.84- 202.84	173.78
10.937	10.937 (1.114)	176	207923			67.70- 127.70	99.04
9 Propylene					CAS #: 115-07-1		
1.227	1.227 (0.259)	41	7783	20.0000	18.931	80.00- 120.00	100.00(a)
1.227	1.227 (0.259)	42	5452			37.96- 97.96	70.05
1.241	1.241 (0.262)	39	5363			36.73- 96.73	68.91
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	26637	20.0000	18.414	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	8562			1.63- 61.63	32.14
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	15123	20.0000	18.750	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	4873			2.50- 62.50	32.22
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	13302	20.0000	21.092	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	4368			1.39- 61.39	32.84
23 Butane					CAS #: 106-97-8		
1.465	1.465 (0.309)	58	2937	20.0000	19.282	80.00- 120.00	100.00(a)
1.465	1.465 (0.309)	43	14982			511.27- 571.27	510.11
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.506 (0.318)	62	11947	20.0000	17.982	80.00- 120.00	100.00
1.506	1.506 (0.318)	64	4139			0.78- 60.78	34.64
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.321)	54	9250	20.0000	17.768	80.00- 120.00	100.00
1.520	1.520 (0.321)	39	7982			41.76- 101.76	86.29
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	5393	20.0000	14.646	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	5594			66.30- 126.30	103.73
1.814	1.814 (0.383)	79	832			0.00- 44.41	15.43
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	4791	20.0000	15.959	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	1685			2.16- 62.16	35.17
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	10405	20.0000	17.271	80.00- 120.00	100.00(a)
1.912	1.912 (0.404)	57	9757			52.83- 112.83	93.77
1.912	1.912 (0.404)	72	1044			0.00- 38.88	10.03
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	22861	20.0000	17.599	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	14449			34.93- 94.93	63.20
42 Ethanol					CAS #: 64-17-5		
2.346	2.346 (0.495)	45	6161	20.0000	20.566	80.00- 120.00	100.00
2.346	2.346 (0.495)	43	1568			0.00- 52.67	25.45
2.360	2.360 (0.498)	46	2097			12.37- 72.37	34.04
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	12947	20.0000	17.712	80.00- 120.00	100.00
2.598	2.598 (0.548)	153	7959			34.36- 94.36	61.47
2.584	2.584 (0.545)	101	21571			119.53- 179.53	166.61
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	21902	20.0000	19.329	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	11064			21.57- 81.57	50.52
2.612	2.612 (0.551)	98	6012			1.98- 61.98	27.45
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	6101	20.0000	19.049	80.00- 120.00	100.00(a)
2.738	2.738 (0.578)	43	14568			233.69- 293.69	238.78
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	28494	20.0000	17.514	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	13617	20.0000	16.592	80.00- 120.00	100.00(a)
2.878	2.878 (0.607)	43	3670			0.00- 53.85	26.95
2.878	2.878 (0.607)	59	677			0.00- 34.34	4.97
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	3156	20.0000	14.533	80.00- 120.00	100.00(a)
3.004	3.004 (0.634)	41	9108			227.89- 287.89	288.59
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	13522	20.0000	18.235	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	9655			40.30- 100.30	71.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	4566			1.79- 61.79	33.77
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.269	3.269 (0.690)	59	5578	20.0000	16.424	80.00- 120.00	100.00(a)
3.269	3.269 (0.690)	41	1887			0.00- 55.27	33.83
3.269	3.269 (0.690)	57	927			0.00- 42.40	16.62
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	7798	20.0000	15.813	80.00- 120.00	100.00
3.339	3.339 (0.705)	57	2263			0.00- 58.10	29.02
3.353	3.353 (0.708)	41	2685			0.00- 57.12	34.43
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	9141	20.0000	16.698	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	16703			142.56- 202.56	182.73
3.381	3.381 (0.714)	98	6613			36.64- 96.64	72.34
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	17255	20.0000	16.783	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	9155			21.59- 81.59	53.06
3.577	3.577 (0.755)	86	2465			0.00- 46.40	14.29
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.857 (0.814)	63	20071	20.0000	17.392	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	6356			0.00- 59.48	31.67
83 Isopropyl ether					CAS #: 108-20-3		
3.843	3.843 (0.811)	45	30309	20.0000	17.621	80.00- 120.00	100.00(a)
3.843	3.843 (0.811)	87	6810			0.00- 54.66	22.47
3.843	3.843 (0.811)	59	4329			0.00- 43.86	14.28
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	2465	20.0000		80.00- 120.00	100.00(a)
3.577	3.577 (0.755)	43	9155			284.51- 344.51	371.40
3.577	3.577 (0.755)	42	4853			138.34- 198.34	196.88
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.221	4.221 (0.891)	59	10634	20.0000	15.725	80.00- 120.00	100.00(a)
4.221	4.221 (0.891)	87	3274			3.44- 63.44	30.79
4.221	4.221 (0.891)	41	2135			0.00- 50.09	20.08
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	14940	20.0000	16.779	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	9468			32.15- 92.15	63.37
4.487	4.487 (0.947)	98	6210			10.13- 70.13	41.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	3689	20.0000	15.227	80.00- 120.00	100.00(a)
4.515	4.515 (0.953)	43	14974			379.79- 439.79	405.91
4.529	4.529 (0.956)	57	1737			6.25- 66.25	47.09
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	9279	20.0000	16.321	80.00- 120.00	100.00
4.739	4.739 (1.000)	71	3585			11.50- 71.50	38.64
4.725	4.725 (0.997)	72	4427			12.84- 72.84	47.71
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	20354	20.0000	16.842	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	13173			32.14- 92.14	64.72
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.920 (1.038)	84	12322	20.0000	15.538	80.00- 120.00	100.00
4.920	4.920 (1.038)	56	17603			99.79- 159.79	142.86
4.920	4.920 (1.038)	41	8447			28.40- 88.40	68.55
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.948 (1.044)	97	16234	20.0000	15.756	80.00- 120.00	100.00
4.948	4.948 (1.044)	99	10871			36.51- 96.51	66.96
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	15184	20.0000	16.948	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	16048			75.71- 135.71	105.69
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	54342	20.0000	16.692	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	18145			4.19- 64.19	33.39
5.326	5.326 (1.124)	41	11539			0.00- 50.55	21.23
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	30185	20.0000	17.664	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	6736			0.00- 53.33	22.32
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.438	5.438 (1.148)	73	7458	20.0000	14.532	80.00- 120.00	100.00(a)
5.452	5.452 (1.151)	87	1678			0.00- 51.83	22.50
5.452	5.452 (1.151)	55	3326			12.08- 72.08	44.60
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	15911	20.0000	19.118	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	5018			1.49- 61.49	31.54
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	9949	20.0000	16.934	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
5.564	5.564 (0.952)	43	16465			128.82- 188.82	165.49
5.564	5.564 (0.952)	100	2593			0.00- 59.89	26.06
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	14766	20.0000	17.758	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	13517			53.70- 113.70	91.54
6.082	6.082 (1.041)	97	10319			34.03- 94.03	69.88
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	18209	20.0000	17.438	80.00- 120.00	100.00(a)
6.194	6.194 (1.060)	98	8421			15.61- 75.61	46.25
6.194	6.194 (1.060)	55	17403			65.29- 125.29	95.57
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	13599	20.0000	18.973	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	9095			44.72- 104.72	66.88
6.390	6.390 (1.093)	41	6462			18.10- 78.10	47.52
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	6170	20.0000	16.779	80.00- 120.00	100.00(a)
6.530	6.530 (1.117)	58	5537			60.63- 120.63	89.74
6.530	6.530 (1.117)	57	1921			0.00- 59.33	31.13
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	21729	20.0000	17.449	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	13359			28.84- 88.84	61.48
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	12788	20.0000	16.528	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	4050			2.17- 62.17	31.67
7.327	7.327 (1.254)	39	6287			14.65- 74.65	49.16
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	2989	20.0000	17.356	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	20570			589.74- 649.74	688.19
7.565	7.565 (1.294)	58	8420			296.38- 356.38	281.70
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	35197	20.0000	17.609	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	20249			28.91- 88.91	57.53
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	7765	20.0000	15.539	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	2122			2.18- 62.18	27.33
8.307	8.307 (0.846)	39	3452			10.13- 70.13	44.46

```
                                          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
  8.614   8.614 (0.877)    97     12981 20.0000   18.784  80.00- 120.00   100.00
  8.614   8.614 (0.877)    99      7784                   34.34-  94.34    59.96
  8.614   8.614 (0.877)    83     10995                   63.48- 123.48    84.70
-------------------------------------------------------------------------------
  156 Tetrachloroethene                              CAS #: 127-18-4
  8.614   8.614 (0.877)   166     12821 20.0000   18.339  80.00- 120.00   100.00
  8.614   8.614 (0.877)   129     10875                   51.36- 111.36    84.82
  8.614   8.614 (0.877)   131      9545                   49.19- 109.19    74.45
-------------------------------------------------------------------------------
  158 2-Hexanone                                     CAS #: 591-78-6
  9.006   9.006 (0.917)    58      9781 20.0000   14.948  80.00- 120.00   100.00(a)
  9.006   9.006 (0.917)    43     15575                  125.38- 185.38   159.24
  9.006   9.006 (0.917)   100      1380                    0.00-  48.37    14.11
-------------------------------------------------------------------------------
  160 Dibromochloromethane                           CAS #: 124-48-1
  9.146   9.146 (0.932)   129     18479 20.0000   17.647  80.00- 120.00   100.00
  9.146   9.146 (0.932)   127     14095                   47.63- 107.63    76.28
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                        CAS #: 106-93-4
  9.300   9.300 (0.947)   107     16318 20.0000   17.314  80.00- 120.00   100.00
  9.300   9.300 (0.947)   109     15895                   61.71- 121.71    97.41
-------------------------------------------------------------------------------
  165 Chlorobenzene                                  CAS #: 108-90-7
  9.846   9.846 (1.003)   112     26809 20.0000   18.017  80.00- 120.00   100.00
  9.846   9.846 (1.003)   114      8514                    1.37-  61.37    31.76
  9.846   9.846 (1.003)    77     23999                   39.20-  99.20    89.52
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                  CAS #: 100-41-4
  9.944   9.944 (1.013)   106     13457 20.0000   18.383  80.00- 120.00   100.00
  9.944   9.944 (1.013)    91     42365                  310.29- 370.29   314.82
-------------------------------------------------------------------------------
  169 m,p-Xylene                                     CAS #: 108-38-3
 10.084  10.084 (1.027)   106     15541 20.0000   17.744  80.00- 120.00   100.00
 10.084  10.084 (1.027)    91     33916                  185.45- 245.45   218.24
-------------------------------------------------------------------------------
  171 o-Xylene                                       CAS #: 95-47-6
 10.461  10.461 (1.066)   106     13296 20.0000   16.407  80.00- 120.00   100.00
 10.461  10.461 (1.066)    91     31285                  196.57- 256.57   235.30
-------------------------------------------------------------------------------
  172 Styrene                                        CAS #: 100-42-5
 10.489  10.489 (1.068)   104     21961 20.0000   17.347  80.00- 120.00   100.00
 10.489  10.489 (1.068)    78     12022                   26.62-  86.62    54.74
-------------------------------------------------------------------------------
  174 Bromoform                                      CAS #: 75-25-2
 10.671  10.671 (1.087)   173     14206 20.0000   16.915  80.00- 120.00   100.00(a)
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
10.671	10.671 (1.087)	171	8124			22.90- 82.90	57.19
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	42768	20.0000	16.937	80.00- 120.00	100.00(a)
10.769	10.769 (1.097)	120	10528			0.00- 55.02	24.62
10.769	10.769 (1.097)	51	5086			0.00- 41.92	11.89
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	25489	20.0000	17.345	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	16479			28.86- 88.86	64.65
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	60184	20.0000	17.263	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	12413			0.00- 49.36	20.63
11.105	11.105 (1.131)	105	2287			0.00- 33.72	3.80
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	46004	20.0000	17.598	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	12336			0.00- 57.25	26.82
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	41270	20.0000	18.313	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	16997			15.00- 75.00	41.18
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	36430	20.0000	17.787	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	14299			10.76- 70.76	39.25
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	24148	20.0000	18.331	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	16512			32.32- 92.32	68.38
11.707	11.707 (1.192)	111	12049			17.13- 77.13	49.90
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	24844	20.0000	17.953	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	15336			33.76- 93.76	61.73
11.763	11.763 (1.198)	111	11110			14.33- 74.33	44.72
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	16669	20.0000	15.667	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	3315			0.00- 48.64	19.89
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	25457	20.0000	19.224	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	14471			32.13- 92.13	56.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.986	11.986 (1.221)	111	11608			17.47- 77.47	45.60
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	15920	20.0000	19.611	80.00- 120.00	100.00(a)
12.840	12.840 (1.308)	182	15375			61.06- 121.06	96.58
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	11592	20.0000	20.041	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	7930			36.08- 96.08	68.41
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	3455	2.00000	1.890	80.00- 120.00	100.00(a)
12.980	12.980 (1.322)	127	381			0.00- 42.87	11.03

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: msd14.i
Lab File ID: 14021211.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

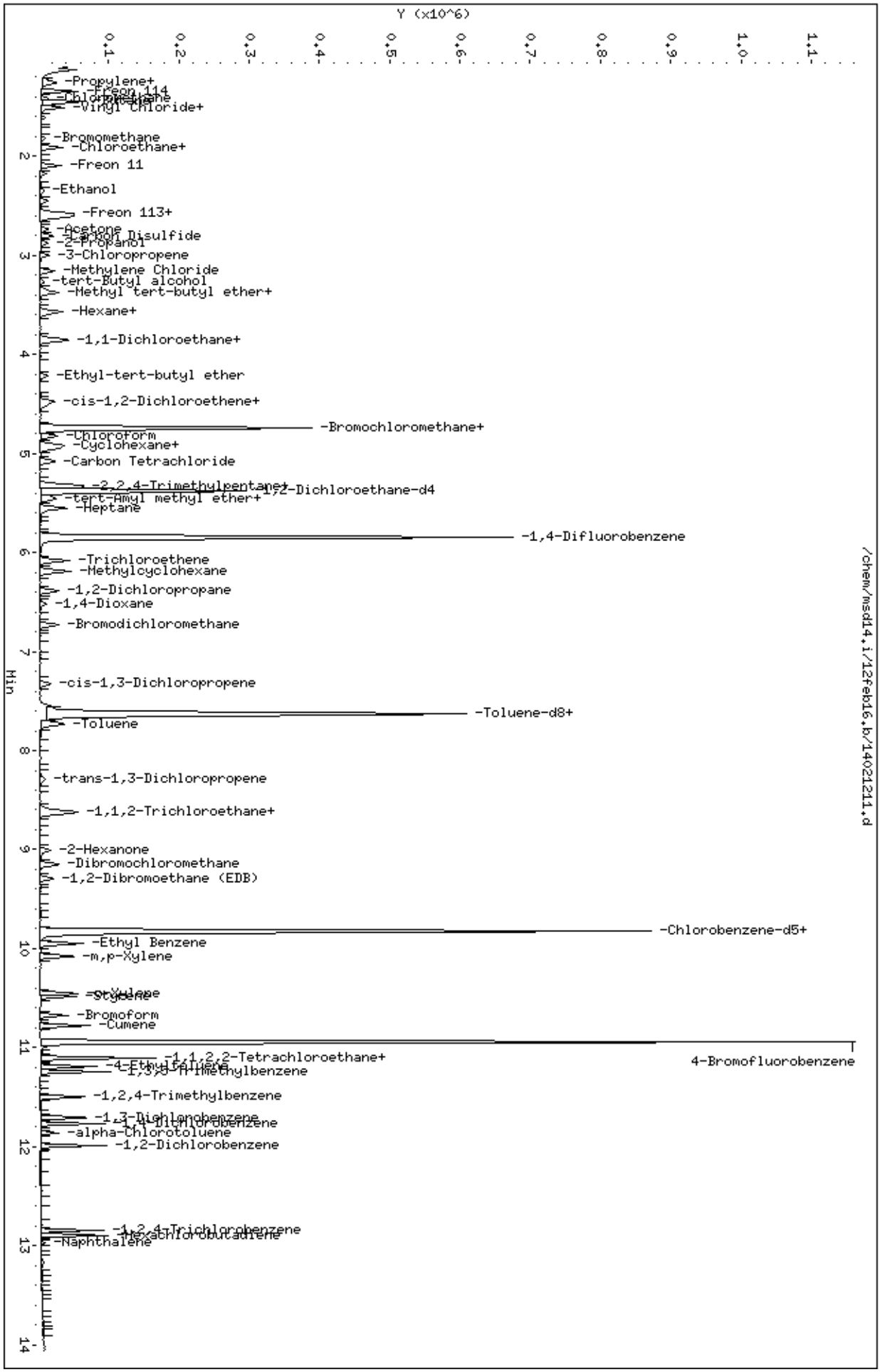
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	120165	1.07
123 1,4-Difluorobenze	558564	335138	781990	531164	-4.91
163 Chlorobenzene-d5	461241	276745	645737	436764	-5.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021211.d
Date : 12-FEB-2016 13:44
Client ID: Level 3
Sample Info: 5.0ml #2759-212
Column phase: RTX-624

Instrument: msd14.i
Operator: cb
Column diameter: 0.18



/chem/msd14.i/12feb16.b/14021211.d

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021212.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 12-FEB-2016 14:05
Operator : cb Inst ID: msd14.i
Smp Info : 12.5ml #2759-212
Misc Info : 50ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 15:50 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 14:05 Cal File: 14021212.d
Als bottle: 1 Calibration Sample, Level: 4
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

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	120108	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	97403			46.39- 106.39	81.10
4.739	4.739 (1.000)	49	217838			150.71- 210.71	181.37
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	556696	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	95698			0.00- 47.48	17.19
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	439493	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	298193			37.59- 97.59	67.85
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	221606	400.000	405.70	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	114362			24.07- 84.07	51.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	609098	400.000	395.07	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	69491			0.00- 41.71	11.41
7.621	7.621 (1.304)	100	387101			32.73- 92.73	63.55
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	222288	400.000	403.40	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	384171			142.84- 202.84	172.83
10.937	10.937 (1.114)	176	212198			67.70- 127.70	95.46
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	20965	50.0000	51.018	80.00- 120.00	100.00
1.227	1.227 (0.259)	42	12773			37.96- 97.96	60.93
1.241	1.241 (0.262)	39	13692			36.73- 96.73	65.31
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	69426	50.0000	48.017	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	23009			1.63- 61.63	33.14
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	37912	50.0000	47.028	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	12476			2.50- 62.50	32.91
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	31624	50.0000	50.168	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	10006			1.39- 61.39	31.64
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	7506	50.0000	49.302	80.00- 120.00	100.00
1.465	1.465 (0.309)	43	39307			511.27- 571.27	523.67
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	32628	50.0000	49.135	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	9657			0.78- 60.78	29.60
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	24125	50.0000	46.364	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	18461			41.76- 101.76	76.52
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	15690	50.0000	42.631	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	14287			66.30- 126.30	91.06
1.814	1.814 (0.383)	79	2748			0.00- 44.41	17.51
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	15239	50.0000	50.784	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	4461			2.16- 62.16	29.27
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	29173	50.0000	48.447	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	23942			52.83- 112.83	82.07
1.912	1.912 (0.404)	72	2953			0.00- 38.88	10.12
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	59608	50.0000	45.910	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	40860			34.93- 94.93	68.55
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	16111	50.0000	53.804	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	3087			0.00- 52.67	19.16
2.360	2.360 (0.498)	46	6715			12.37- 72.37	41.68
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	34633	50.0000	47.400	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	22568			34.36- 94.36	65.16
2.584	2.584 (0.545)	101	52174			119.53- 179.53	150.65
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	53605	50.0000	47.329	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	26548			21.57- 81.57	49.53
2.612	2.612 (0.551)	98	16602			1.98- 61.98	30.97
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	14459	50.0000	45.166	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	39836			233.69- 293.69	275.51
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	77007	50.0000	47.356	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	35807	50.0000	43.651	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	9314			0.00- 53.85	26.01
2.878	2.878 (0.607)	59	1587			0.00- 34.34	4.43
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	9181	50.0000	42.297	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	25148			227.89- 287.89	273.91
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	32763	50.0000	44.203	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	25406			40.30- 100.30	77.54

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

   66 Methylene Chloride (continued)
  3.158   3.158 (0.666)    51     10753                     1.79-  61.79    32.82
-------------------------------------------------------------------------------
   71 tert-Butyl alcohol                            CAS #: 75-65-0
  3.270   3.270 (0.690)    59     14130 50.0000   41.624  80.00- 120.00   100.00
  3.270   3.270 (0.690)    41      3944                     0.00-  55.27    27.91
  3.270   3.270 (0.690)    57      1688                     0.00-  42.40    11.95
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  3.354   3.354 (0.708)    73     21664 50.0000   43.952  80.00- 120.00   100.00
  3.354   3.354 (0.708)    57      5884                     0.00-  58.10    27.16
  3.354   3.354 (0.708)    41      6847                     0.00-  57.12    31.61
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.382   3.382 (0.714)    96     25566 50.0000   46.725  80.00- 120.00   100.00
  3.382   3.382 (0.714)    61     42779                   142.56- 202.56   167.33
  3.382   3.382 (0.714)    98     16824                    36.64-  96.64    65.81
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  3.577   3.577 (0.755)    57     46085 50.0000   44.845  80.00- 120.00   100.00
  3.577   3.577 (0.755)    43     23798                    21.59-  81.59    51.64
  3.577   3.577 (0.755)    86      6982                     0.00-  46.40    15.15
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  3.843   3.843 (0.811)    45     78463 50.0000   45.638  80.00- 120.00   100.00
  3.843   3.843 (0.811)    87     21524                     0.00-  54.66    27.43
  3.843   3.843 (0.811)    59     11132                     0.00-  43.86    14.19
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  3.857   3.857 (0.814)    63     55707 50.0000   48.295  80.00- 120.00   100.00
  3.857   3.857 (0.814)    65     16259                     0.00-  59.48    29.19
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  3.577   3.577 (0.755)    86      6982 50.0000            80.00- 120.00   100.00(a)
  3.577   3.577 (0.755)    43     23798                   284.51- 344.51   340.85
  3.577   3.577 (0.755)    42     12841                   138.34- 198.34   183.92
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.221   4.221 (0.891)    59     26922 50.0000   39.830  80.00- 120.00   100.00
  4.221   4.221 (0.891)    87      8572                     3.44-  63.44    31.84
  4.221   4.221 (0.891)    41      6005                     0.00-  50.09    22.31
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.487   4.487 (0.947)    61     42683 50.0000   47.959  80.00- 120.00   100.00
  4.487   4.487 (0.947)    96     26929                    32.15-  92.15    63.09
  4.487   4.487 (0.947)    98     16227                    10.13-  70.13    38.02
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	10477	50.0000	43.267	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	41844			379.79- 439.79	399.39
4.515	4.515 (0.953)	57	4102			6.25- 66.25	39.15
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	24860	50.0000	43.748	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	9390			11.50- 71.50	37.77
4.725	4.725 (0.997)	72	10571			12.84- 72.84	42.52
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	57759	50.0000	47.815	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	34883			32.14- 92.14	60.39
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	34462	50.0000	43.477	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	46247			99.79- 159.79	134.20
4.921	4.921 (1.038)	41	22467			28.40- 88.40	65.19
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	48733	50.0000	47.320	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	29099			36.51- 96.51	59.71
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.089	5.089 (1.074)	119	42046	50.0000	46.953	80.00- 120.00	100.00
5.089	5.089 (1.074)	117	43340			75.71- 135.71	103.08
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	147582	50.0000	45.355	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	51709			4.19- 64.19	35.04
5.326	5.326 (1.124)	41	31726			0.00- 50.55	21.50
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	84559	50.0000	47.214	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	19719			0.00- 53.33	23.32
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	22158	50.0000	43.197	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	4239			0.00- 51.83	19.13
5.452	5.452 (1.151)	55	10011			12.08- 72.08	45.18
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	39936	50.0000	45.786	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	13126			1.49- 61.49	32.87
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	27688	50.0000	44.966	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
5.564	5.564 (0.952)	43	42456			128.82- 188.82	153.34
5.564	5.564 (0.952)	100	8355			0.00- 59.89	30.18
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	39733	50.0000	45.592	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	33445			53.70- 113.70	84.17
6.082	6.082 (1.041)	97	22418			34.03- 94.03	56.42
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	48935	50.0000	44.713	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	22250			15.61- 75.61	45.47
6.194	6.194 (1.060)	55	45500			65.29- 125.29	92.98
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	34787	50.0000	46.307	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	25061			44.72- 104.72	72.04
6.390	6.390 (1.093)	41	16194			18.10- 78.10	46.55
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	17374	50.0000	45.082	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	14739			60.63- 120.63	84.83
6.530	6.530 (1.117)	57	4537			0.00- 59.33	26.11
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.726 (1.151)	83	58549	50.0000	44.859	80.00- 120.00	100.00
6.726	6.726 (1.151)	85	36080			28.84- 88.84	61.62
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	36210	50.0000	44.654	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	10927			2.17- 62.17	30.18
7.327	7.327 (1.254)	39	16899			14.65- 74.65	46.67
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	7924	50.0000	43.902	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	49441			589.74- 649.74	623.94
7.565	7.565 (1.294)	58	23468			296.38- 356.38	296.16
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	91975	50.0000	43.905	80.00- 120.00	100.00
7.719	7.719 (1.321)	92	56484			28.91- 88.91	61.41
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	24229	50.0000	48.185	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	7447			2.18- 62.18	30.74
8.293	8.293 (0.845)	39	10746			10.13- 70.13	44.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	32124	50.0000	46.196	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	19276			34.34- 94.34	60.00
8.614	8.614 (0.877)	83	29204			63.48- 123.48	90.91
156 Tetrachloroethene					CAS #: 127-18-4		
8.614	8.614 (0.877)	166	33368	50.0000	47.433	80.00- 120.00	100.00
8.614	8.614 (0.877)	129	25805			51.36- 111.36	77.33
8.614	8.614 (0.877)	131	26754			49.19- 109.19	80.18
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	27250	50.0000	41.387	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	40342			125.38- 185.38	148.04
9.006	9.006 (0.917)	100	4500			0.00- 48.37	16.51
160 Dibromochloromethane					CAS #: 124-48-1		
9.146	9.146 (0.932)	129	47858	50.0000	45.420	80.00- 120.00	100.00
9.146	9.146 (0.932)	127	39670			47.63- 107.63	82.89
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	44238	50.0000	46.647	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	42399			61.71- 121.71	95.84
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	68828	50.0000	45.968	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	22435			1.37- 61.37	32.60
9.846	9.846 (1.003)	77	50329			39.20- 99.20	73.12
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	32134	50.0000	43.624	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	115174			310.29- 370.29	358.42
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	39459	50.0000	44.774	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	86200			185.45- 245.45	218.45
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	37147	50.0000	45.553	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	85984			196.57- 256.57	231.47
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	56149	50.0000	44.076	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	33882			26.62- 86.62	60.34
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	38116	50.0000	45.102	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
10.671	10.671 (1.087)	171	20703			22.90- 82.90	54.32
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	115271	50.0000	45.366	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	27230			0.00- 55.02	23.62
10.769	10.769 (1.097)	51	14116			0.00- 41.92	12.25
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	72271	50.0000	48.875	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	44681			28.86- 88.86	61.82
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	164987	50.0000	47.031	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	31759			0.00- 49.36	19.25
11.105	11.105 (1.131)	105	5396			0.00- 33.72	3.27
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	122631	50.0000	46.620	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	31430			0.00- 57.25	25.63
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	109459	50.0000	48.270	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	47937			15.00- 75.00	43.79
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	98730	50.0000	47.906	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	39700			10.76- 70.76	40.21
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	62539	50.0000	47.179	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	41396			32.32- 92.32	66.19
11.693	11.693 (1.191)	111	29523			17.13- 77.13	47.21
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	66654	50.0000	47.866	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	40721			33.76- 93.76	61.09
11.763	11.763 (1.198)	111	28564			14.33- 74.33	42.85
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.861 (1.208)	91	53439	50.0000	49.914	80.00- 120.00	100.00
11.861	11.861 (1.208)	126	10058			0.00- 48.64	18.82
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	63777	50.0000	47.862	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	40291			32.13- 92.13	63.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.986	11.986 (1.221)	111	30858			17.47- 77.47	48.38
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	39753	50.0000	48.666	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	39633			61.06- 121.06	99.70
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	29084	50.0000	49.970	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	18237			36.08- 96.08	62.70
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	9456	5.00000	5.141	80.00- 120.00	100.00(a)
12.966	12.966 (1.321)	127	1188			0.00- 42.87	12.56

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: msd14.i
Lab File ID: 14021212.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

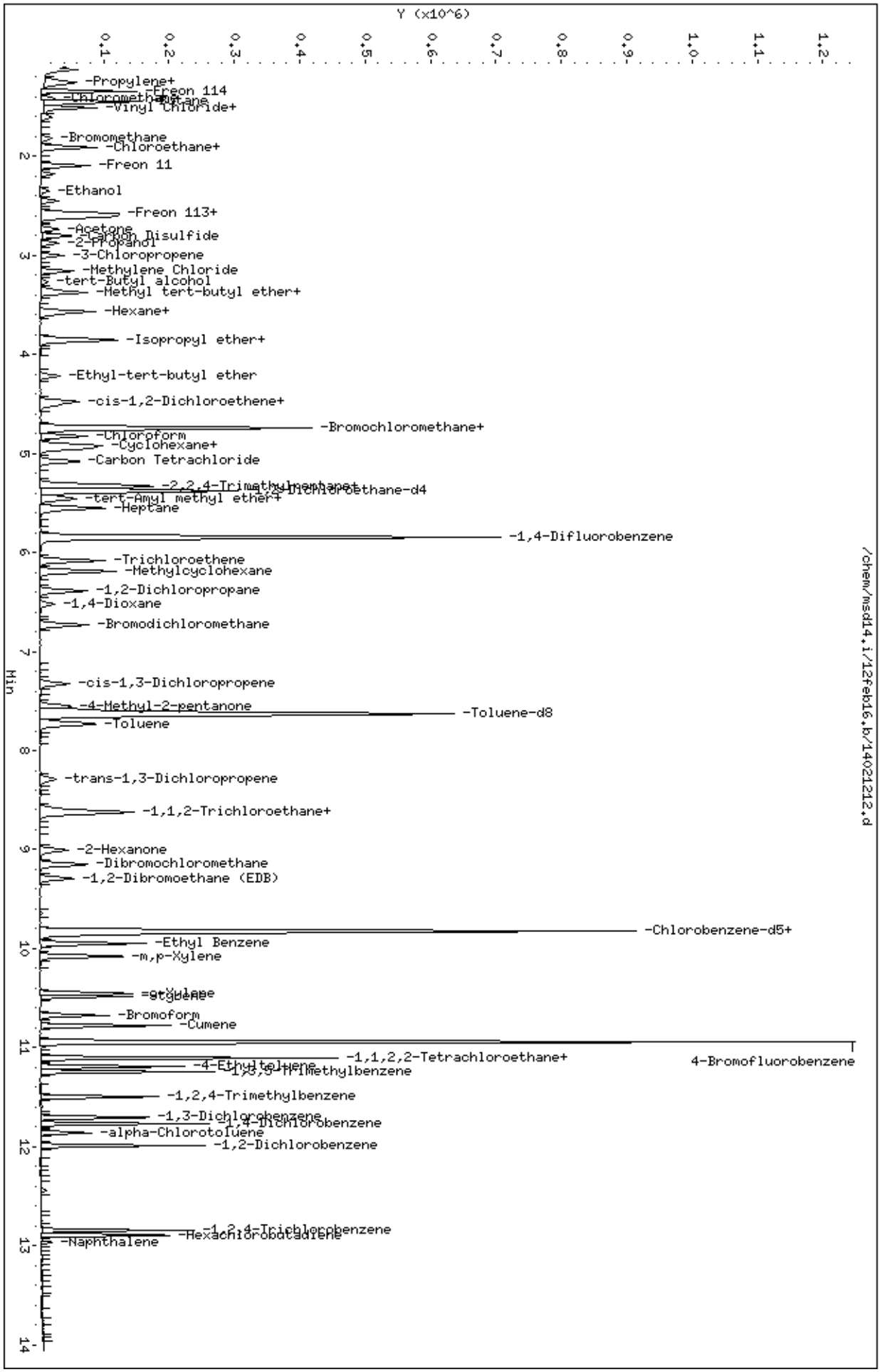
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	120108	1.02
123 1,4-Difluorobenze	558564	335138	781990	556696	-0.33
163 Chlorobenzene-d5	461241	276745	645737	439493	-4.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021212.d
Date : 12-FEB-2016 14:05
Client ID: Level 4
Sample Info: 12.5ml #2759-212
Column phase: RTX-624

Instrument: msd14.i
Operator: cb
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021213.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 12-FEB-2016 14:28
Operator : cb Inst ID: msd14.i
Smp Info : 25ml #2759-212
Misc Info : 100ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 16:26 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 14:28 Cal File: 14021213.d
Als bottle: 1 Calibration Sample, Level: 5
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

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	118896	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	90829			46.39- 106.39	76.39
4.739	4.739 (1.000)	49	214854			150.71- 210.71	180.71
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	558564	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	97615			0.00- 47.48	17.48
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	461241	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	311763			37.59- 97.59	67.59
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	216084	400.000	399.62	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	116847			24.07- 84.07	54.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	624321	400.000	403.59	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	73108			0.00- 41.71	11.71
7.621	7.621 (1.304)	100	391620			32.73- 92.73	62.73
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	234025	400.000	404.68	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	404489			142.84- 202.84	172.84
10.937	10.937 (1.114)	176	228646			67.70- 127.70	97.70
9 Propylene					CAS #: 115-07-1		
1.227	1.227 (0.259)	41	43488	100.000	106.90	80.00- 120.00	100.00
1.227	1.227 (0.259)	42	29554			37.96- 97.96	67.96
1.227	1.227 (0.259)	39	29021			36.73- 96.73	66.73
11 Freon 12					CAS #: 75-71-8		
1.255	1.255 (0.265)	85	153718	100.000	107.40	80.00- 120.00	100.00
1.255	1.255 (0.265)	87	48626			1.63- 61.63	31.63
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	87436	100.000	109.56	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	28413			2.50- 62.50	32.50
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	68416	100.000	109.64	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	21479			1.39- 61.39	31.39
23 Butane					CAS #: 106-97-8		
1.464	1.464 (0.309)	58	16361	100.000	108.56	80.00- 120.00	100.00
1.464	1.464 (0.309)	43	88558			511.27- 571.27	541.27
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.506 (0.318)	62	70698	100.000	107.55	80.00- 120.00	100.00
1.506	1.506 (0.318)	64	21761			0.78- 60.78	30.78
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.321)	54	53970	100.000	104.78	80.00- 120.00	100.00
1.520	1.520 (0.321)	39	38729			41.76- 101.76	71.76
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	36859	100.000	101.17	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	35495			66.30- 126.30	96.30
1.814	1.814 (0.383)	79	5312			0.00- 44.41	14.41
30 Chloroethane					CAS #: 75-00-3		
1.884	1.884 (0.398)	64	32592	100.000	109.72	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.884	1.884 (0.398)	66	10480			2.16- 62.16	32.16
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	65530	100.000	109.93	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	54276			52.83- 112.83	82.83
1.912	1.912 (0.404)	72	5821			0.00- 38.88	8.88
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	138427	100.000	107.70	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	89886			34.93- 94.93	64.93
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	34135	100.000	115.16	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	7740			0.00- 52.67	22.67
2.360	2.360 (0.498)	46	14462			12.37- 72.37	42.37
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	78922	100.000	109.12	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	50793			34.36- 94.36	64.36
2.584	2.584 (0.545)	101	118016			119.53- 179.53	149.53
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	118692	100.000	105.86	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	61206			21.57- 81.57	51.57
2.612	2.612 (0.551)	98	37960			1.98- 61.98	31.98
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	34336	100.000	108.35	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	90540			233.69- 293.69	263.69
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	172334	100.000	107.06	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	88900	100.000	109.48	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	21203			0.00- 53.85	23.85
2.878	2.878 (0.607)	59	3858			0.00- 34.34	4.34
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	23824	100.000	110.88	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	61440			227.89- 287.89	257.89
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	74907	100.000	102.09	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	52656			40.30- 100.30	70.30

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

   66 Methylene Chloride (continued)
  3.158   3.158 (0.666)    51     23816                     1.79-  61.79    31.79
-------------------------------------------------------------------------------
   71 tert-Butyl alcohol                            CAS #: 75-65-0
  3.269   3.269 (0.690)    59     38935 100.000   115.86  80.00- 120.00   100.00
  3.269   3.269 (0.690)    41      9840                     0.00-  55.27    25.27
  3.269   3.269 (0.690)    57      4826                     0.00-  42.40    12.40
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  3.353   3.353 (0.708)    73     59663 100.000   122.28  80.00- 120.00   100.00
  3.353   3.353 (0.708)    57     16763                     0.00-  58.10    28.10
  3.353   3.353 (0.708)    41     16178                     0.00-  57.12    27.12
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.381   3.381 (0.714)    96     56923 100.000   105.09  80.00- 120.00   100.00
  3.381   3.381 (0.714)    61     98227                   142.56- 202.56   172.56
  3.381   3.381 (0.714)    98     37934                    36.64-  96.64    66.64
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  3.577   3.577 (0.755)    57    108311 100.000   106.47  80.00- 120.00   100.00
  3.577   3.577 (0.755)    43     55875                    21.59-  81.59    51.59
  3.577   3.577 (0.755)    86     17766                     0.00-  46.40    16.40
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  3.843   3.843 (0.811)    45    191549 100.000   112.55  80.00- 120.00   100.00
  3.843   3.843 (0.811)    87     47240                     0.00-  54.66    24.66
  3.843   3.843 (0.811)    59     26545                     0.00-  43.86    13.86
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  3.857   3.857 (0.814)    63    126450 100.000   110.74  80.00- 120.00   100.00
  3.857   3.857 (0.814)    65     37276                     0.00-  59.48    29.48
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  3.577   3.577 (0.755)    86     17766 100.000            80.00- 120.00   100.00(a)
  3.577   3.577 (0.755)    43     55875                   284.51- 344.51   314.51
  3.577   3.577 (0.755)    42     29908                   138.34- 198.34   168.34
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.221   4.221 (0.891)    59     76313 100.000   114.05  80.00- 120.00   100.00
  4.221   4.221 (0.891)    87     25522                     3.44-  63.44    33.44
  4.221   4.221 (0.891)    41     15331                     0.00-  50.09    20.09
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.487   4.487 (0.947)    61     95913 100.000   108.87  80.00- 120.00   100.00
  4.487   4.487 (0.947)    96     59608                    32.15-  92.15    62.15
  4.487   4.487 (0.947)    98     38491                    10.13-  70.13    40.13
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	25415	100.000	106.03	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	104147			379.79- 439.79	409.79
4.515	4.515 (0.953)	57	9213			6.25- 66.25	36.25
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	60764	100.000	108.02	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	25216			11.50- 71.50	41.50
4.725	4.725 (0.997)	72	26030			12.84- 72.84	42.84
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	127903	100.000	106.96	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	79480			32.14- 92.14	62.14
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.920 (1.038)	84	86280	100.000	109.96	80.00- 120.00	100.00
4.920	4.920 (1.038)	56	111986			99.79- 159.79	129.79
4.920	4.920 (1.038)	41	50385			28.40- 88.40	58.40
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.948 (1.044)	97	112577	100.000	110.43	80.00- 120.00	100.00
4.948	4.948 (1.044)	99	74879			36.51- 96.51	66.51
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	99428	100.000	112.16	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	105103			75.71- 135.71	105.71
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	354287	100.000	109.99	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	121124			4.19- 64.19	34.19
5.326	5.326 (1.124)	41	72809			0.00- 50.55	20.55
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	194402	100.000	108.18	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	45362			0.00- 53.33	23.33
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	58038	100.000	114.30	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	12668			0.00- 51.83	21.83
5.452	5.452 (1.151)	55	24421			12.08- 72.08	42.08
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	92140	100.000	105.28	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	29019			1.49- 61.49	31.49
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	64806	100.000	104.89	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
5.564	5.564 (0.952)	43	102928			128.82- 188.82	158.82
5.564	5.564 (0.952)	100	19370			0.00- 59.89	29.89
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	90072	100.000	103.01	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	75392			53.70- 113.70	83.70
6.082	6.082 (1.041)	97	57674			34.03- 94.03	64.03
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	112983	100.000	102.89	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	51528			15.61- 75.61	45.61
6.194	6.194 (1.060)	55	107659			65.29- 125.29	95.29
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	78311	100.000	103.90	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	58512			44.72- 104.72	74.72
6.390	6.390 (1.093)	41	37670			18.10- 78.10	48.10
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	40691	100.000	105.23	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	36879			60.63- 120.63	90.63
6.530	6.530 (1.117)	57	11934			0.00- 59.33	29.33
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	140193	100.000	107.05	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	82492			28.84- 88.84	58.84
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	89856	100.000	110.44	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	28904			2.17- 62.17	32.17
7.327	7.327 (1.254)	39	40120			14.65- 74.65	44.65
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	19403	100.000	107.14	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	120249			589.74- 649.74	619.74
7.565	7.565 (1.294)	58	63327			296.38- 356.38	326.38
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	221505	100.000	105.38	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	130495			28.91- 88.91	58.91
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	63838	100.000	120.97	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	20541			2.18- 62.18	32.18
8.293	8.293 (0.845)	39	25616			10.13- 70.13	40.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	75844	100.000	103.92	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	48799			34.34- 94.34	64.34
8.614	8.614 (0.877)	83	70897			63.48- 123.48	93.48
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	79795	100.000	108.08	80.00- 120.00	100.00
8.614	8.614 (0.877)	129	64919			51.36- 111.36	81.36
8.614	8.614 (0.877)	131	63188			49.19- 109.19	79.19
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	70295	100.000	101.73	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	109225			125.38- 185.38	155.38
9.006	9.006 (0.917)	100	12912			0.00- 48.37	18.37
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	114926	100.000	103.93	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	89214			47.63- 107.63	77.63
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	106596	100.000	107.10	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	97759			61.71- 121.71	91.71
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	163267	100.000	103.90	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	51216			1.37- 61.37	31.37
9.846	9.846 (1.003)	77	112982			39.20- 99.20	69.20
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	80982	100.000	104.75	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	275571			310.29- 370.29	340.29
169 m,p-Xylene					CAS #: 108-38-3		
10.083	10.083 (1.027)	106	100023	100.000	108.14	80.00- 120.00	100.00
10.083	10.083 (1.027)	91	215497			185.45- 245.45	215.45
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	93548	100.000	109.31	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	211951			196.57- 256.57	226.57
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	152055	100.000	113.73	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	86098			26.62- 86.62	56.62
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	91943	100.000	103.66	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
10.671	10.671 (1.087)	171	48639			22.90- 82.90	52.90
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	295061	100.000	110.65	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	73821			0.00- 55.02	25.02
10.769	10.769 (1.097)	51	35170			0.00- 41.92	11.92
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	165290	100.000	106.51	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	97290			28.86- 88.86	58.86
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	392044	100.000	106.49	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	75885			0.00- 49.36	19.36
11.105	11.105 (1.131)	105	14576			0.00- 33.72	3.72
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	298238	100.000	108.03	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	81259			0.00- 57.25	27.25
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	258589	100.000	108.66	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	116354			15.00- 75.00	45.00
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	232872	100.000	107.67	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	94915			10.76- 70.76	40.76
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	146701	100.000	105.45	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	91427			32.32- 92.32	62.32
11.693	11.693 (1.191)	111	69145			17.13- 77.13	47.13
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.762	11.762 (1.198)	146	150981	100.000	103.31	80.00- 120.00	100.00
11.762	11.762 (1.198)	148	96260			33.76- 93.76	63.76
11.762	11.762 (1.198)	111	66934			14.33- 74.33	44.33
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	126575	100.000	112.65	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	23594			0.00- 48.64	18.64
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	141870	100.000	101.45	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	88142			32.13- 92.13	62.13

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

  214 1,2-Dichlorobenzene (continued)
 11.986  11.986 (1.221)   111     67345                   17.47-  77.47    47.47
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.840  12.840 (1.308)   180     72601 100.000   84.687  80.00- 120.00   100.00
 12.840  12.840 (1.308)   182     66112                   61.06- 121.06    91.06
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.896  12.896 (1.314)   225     53661 100.000   87.850  80.00- 120.00   100.00
 12.896  12.896 (1.314)   223     35459                   36.08-  96.08    66.08
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.966  12.966 (1.321)   128     13145 10.0000    6.810  80.00- 120.00   100.00(a)
 12.966  12.966 (1.321)   127      1692                    0.00-  42.87    12.87
-------------------------------------------------------------------------------
```

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: msd14.i
Lab File ID: 14021213.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

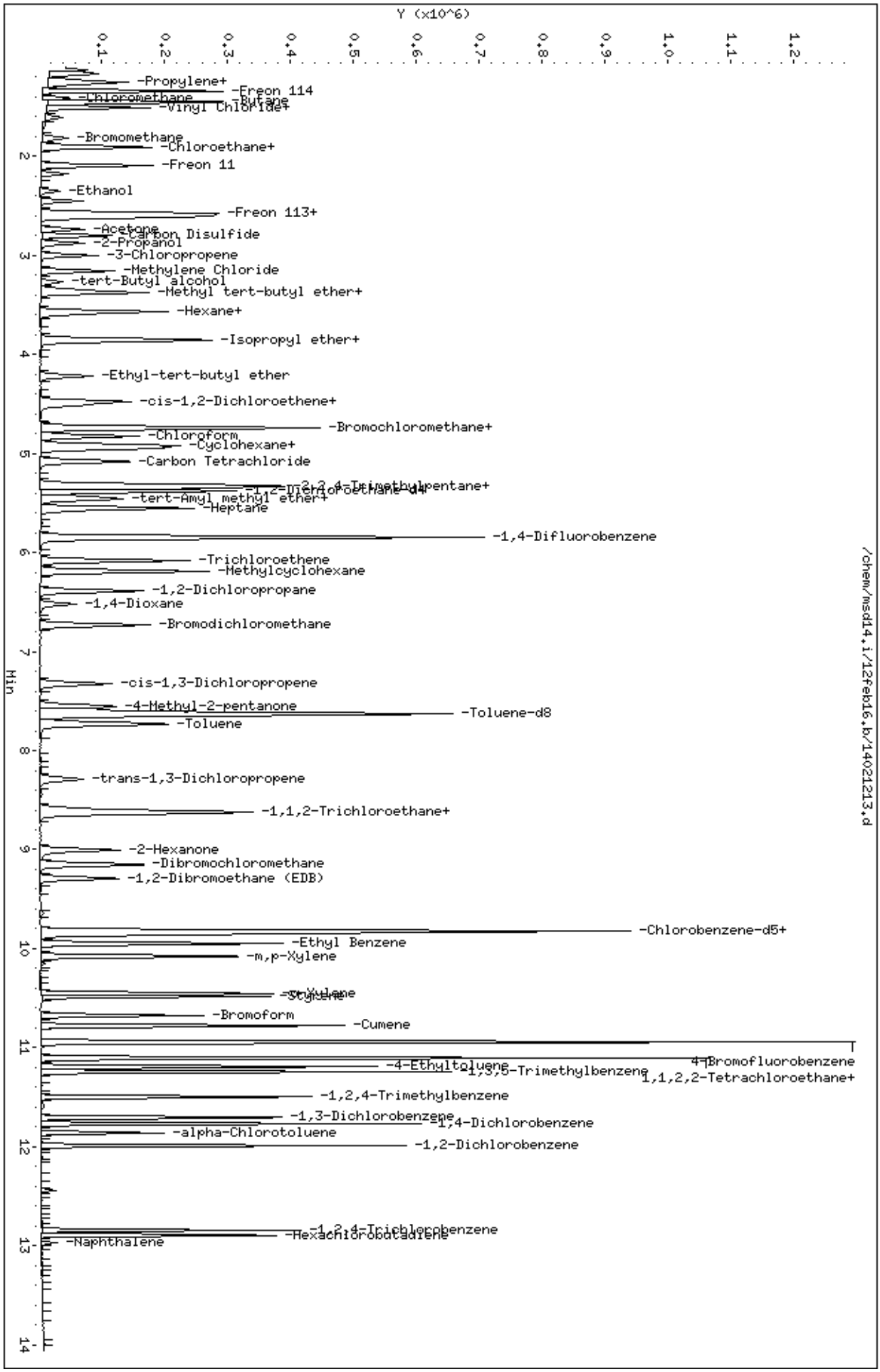
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	118896	0.00
123 1,4-Difluorobenze	558564	335138	781990	558564	0.00
163 Chlorobenzene-d5	461241	276745	645737	461241	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021213.d
Date : 12-FEB-2016 14:28
Client ID: Level 5
Sample Info: 25ml #2759-212
Column phase: RTX-624

Instrument: msd14.i
Operator: cb
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021214.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 12-FEB-2016 14:48
Operator : cb Inst ID: msd14.i
Smp Info : 50ml #2759-212
Misc Info : 200ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 15:50 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 14:48 Cal File: 14021214.d
Als bottle: 1 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

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	125919	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	94869			46.39- 106.39	75.34
4.739	4.739 (1.000)	49	222746			150.71- 210.71	176.90
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	576030	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	97894			0.00- 47.48	16.99
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	479943	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	324928			37.59- 97.59	67.70
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	225671	400.000	394.08	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	122227			24.07- 84.07	54.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	647702	400.000	406.00	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	76786			0.00- 41.71	11.86
7.621	7.621 (1.304)	100	424267			32.73- 92.73	65.50
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	243755	400.000	405.08	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	418986			142.84- 202.84	171.89
10.937	10.937 (1.114)	176	233034			67.70- 127.70	95.60
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	81615	200.000	189.44	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	56730			37.96- 97.96	69.51
1.227	1.227 (0.259)	39	58596			36.73- 96.73	71.80
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	295537	200.000	194.97	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	95746			1.63- 61.63	32.40
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	172989	200.000	204.68	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	54970			2.50- 62.50	31.78
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	128422	200.000	194.33	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	40725			1.39- 61.39	31.71
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	30610	200.000	191.78	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	166883			511.27- 571.27	545.19
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.506 (0.318)	62	137157	200.000	197.01	80.00- 120.00	100.00
1.506	1.506 (0.318)	64	42170			0.78- 60.78	30.75
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.321)	54	107935	200.000	197.86	80.00- 120.00	100.00
1.520	1.520 (0.321)	39	80212			41.76- 101.76	74.32
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	70877	200.000	183.69	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	65147			66.30- 126.30	91.92
1.814	1.814 (0.383)	79	13158			0.00- 44.41	18.56
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	64255	200.000	204.25	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	20101			2.16- 62.16	31.28
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	125978	200.000	199.56	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	114127			52.83- 112.83	90.59
1.898	1.898 (0.401)	72	12084			0.00- 38.88	9.59
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	273428	200.000	200.88	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	174272			34.93- 94.93	63.74
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	68108	200.000	216.96	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	14802			0.00- 52.67	21.73
2.360	2.360 (0.498)	46	29746			12.37- 72.37	43.67
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	148726	200.000	194.16	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	98684			34.36- 94.36	66.35
2.584	2.584 (0.545)	101	237094			119.53- 179.53	159.42
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	228315	200.000	192.28	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	113790			21.57- 81.57	49.84
2.612	2.612 (0.551)	98	72881			1.98- 61.98	31.92
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	66762	200.000	198.92	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	175170			233.69- 293.69	262.38
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	343270	200.000	201.35	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	183111	200.000	212.92	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	37979			0.00- 53.85	20.74
2.892	2.892 (0.610)	59	8526			0.00- 34.34	4.66
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	49363	200.000	216.92	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	122887			227.89- 287.89	248.95
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	145543	200.000	187.30	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	109241			40.30- 100.30	75.06

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

   66 Methylene Chloride (continued)
  3.158   3.158 (0.666)    51     48520                     1.79-  61.79    33.34
-------------------------------------------------------------------------------
   71 tert-Butyl alcohol                            CAS #: 75-65-0
  3.283   3.283 (0.693)    59     84535 200.000   237.53  80.00- 120.00   100.00(A)
  3.283   3.283 (0.693)    41     20095                     0.00-  55.27    23.77
  3.283   3.283 (0.693)    57      9232                     0.00-  42.40    10.92
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  3.353   3.353 (0.708)    73    151866 200.000   293.89  80.00- 120.00   100.00
  3.353   3.353 (0.708)    57     40483                     0.00-  58.10    26.66
  3.353   3.353 (0.708)    41     39326                     0.00-  57.12    25.90
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.381   3.381 (0.714)    96    117709 200.000   205.20  80.00- 120.00   100.00
  3.381   3.381 (0.714)    61    198461                  142.56- 202.56   168.60
  3.381   3.381 (0.714)    98     76125                   36.64-  96.64    64.67
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  3.577   3.577 (0.755)    57    225610 200.000   209.41  80.00- 120.00   100.00
  3.577   3.577 (0.755)    43    112658                   21.59-  81.59    49.93
  3.577   3.577 (0.755)    86     32443                    0.00-  46.40    14.38
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  3.857   3.857 (0.814)    45    389562 200.000   216.13  80.00- 120.00   100.00(A)
  3.857   3.857 (0.814)    87    100830                    0.00-  54.66    25.88
  3.857   3.857 (0.814)    59     51956                    0.00-  43.86    13.34
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  3.857   3.857 (0.814)    63    246050 200.000   203.47  80.00- 120.00   100.00
  3.857   3.857 (0.814)    65     77838                    0.00-  59.48    31.64
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  3.577   3.577 (0.755)    86     32443 200.000           80.00- 120.00   100.00(a)
  3.577   3.577 (0.755)    43    112427                  284.51- 344.51   346.54
  3.577   3.577 (0.755)    42     59700                  138.34- 198.34   184.02
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.221   4.221 (0.891)    59    180922 200.000   255.32  80.00- 120.00   100.00(A)
  4.221   4.221 (0.891)    87     58555                    3.44-  63.44    32.36
  4.221   4.221 (0.891)    41     35222                    0.00-  50.09    19.47
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.487   4.487 (0.947)    61    191973 200.000   205.75  80.00- 120.00   100.00
  4.487   4.487 (0.947)    96    127217                   32.15-  92.15    66.27
  4.487   4.487 (0.947)    98     78321                   10.13-  70.13    40.80
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	55665	200.000	219.27	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	211352			379.79- 439.79	379.69
4.515	4.515 (0.953)	57	21457			6.25- 66.25	38.55
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	128775	200.000	216.16	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	50680			11.50- 71.50	39.36
4.725	4.725 (0.997)	72	56447			12.84- 72.84	43.83
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	258319	200.000	203.98	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	162069			32.14- 92.14	62.74
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.920 (1.038)	84	173000	200.000	208.18	80.00- 120.00	100.00
4.920	4.920 (1.038)	56	234249			99.79- 159.79	135.40
4.920	4.920 (1.038)	41	98943			28.40- 88.40	57.19
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.948 (1.044)	97	235459	200.000	218.08	80.00- 120.00	100.00
4.948	4.948 (1.044)	99	151082			36.51- 96.51	64.16
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	208444	200.000	222.03	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	213620			75.71- 135.71	102.48
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	710730	200.000	208.34	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	242875			4.19- 64.19	34.17
5.326	5.326 (1.124)	41	147427			0.00- 50.55	20.74
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	380160	200.000	205.14	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	93044			0.00- 53.33	24.47
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	136213	200.000	253.29	80.00- 120.00	100.00(A)
5.452	5.452 (1.151)	87	31010			0.00- 51.83	22.77
5.452	5.452 (1.151)	55	57738			12.08- 72.08	42.39
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	187794	200.000	208.08	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	59093			1.49- 61.49	31.47
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	137048	200.000	215.10	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
5.564	5.564 (0.952)	43	215162			128.82- 188.82	157.00
5.564	5.564 (0.952)	100	41446			0.00- 59.89	30.24
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	170778	200.000	189.38	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	148376			53.70- 113.70	86.88
6.082	6.082 (1.041)	97	111197			34.03- 94.03	65.11
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	230127	200.000	203.22	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	106630			15.61- 75.61	46.34
6.194	6.194 (1.060)	55	210812			65.29- 125.29	91.61
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	154443	200.000	198.69	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	113847			44.72- 104.72	73.71
6.390	6.390 (1.093)	41	72710			18.10- 78.10	47.08
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	85644	200.000	214.77	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	74240			60.63- 120.63	86.68
6.530	6.530 (1.117)	57	22597			0.00- 59.33	26.38
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	272917	200.000	202.09	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	170028			28.84- 88.84	62.30
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	198336	200.000	236.38	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	63702			2.17- 62.17	32.12
7.327	7.327 (1.254)	39	86112			14.65- 74.65	43.42
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	42918	200.000	229.80	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	259316			589.74- 649.74	604.21
7.565	7.565 (1.294)	58	120208			296.38- 356.38	280.09
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	440344	200.000	203.15	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	265475			28.91- 88.91	60.29
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	150734	200.000	274.50	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	47167			2.18- 62.18	31.29
8.293	8.293 (0.845)	39	58158			10.13- 70.13	38.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	154909	200.000	203.99	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	92660			34.34- 94.34	59.82
8.614	8.614 (0.877)	83	140848			63.48- 123.48	90.92
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	157343	200.000	204.81	80.00- 120.00	100.00
8.614	8.614 (0.877)	129	129272			51.36- 111.36	82.16
8.628	8.628 (0.879)	131	125966			49.19- 109.19	80.06
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	159370	200.000	221.65	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	238254			125.38- 185.38	149.50
9.006	9.006 (0.917)	100	27659			0.00- 48.37	17.36
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	235586	200.000	204.74	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	181494			47.63- 107.63	77.04
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	218746	200.000	211.22	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	203958			61.71- 121.71	93.24
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	337265	200.000	206.26	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	106807			1.37- 61.37	31.67
9.846	9.846 (1.003)	77	217791			39.20- 99.20	64.58
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	169380	200.000	210.56	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	575498			310.29- 370.29	339.77
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	205396	200.000	213.42	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	438600			185.45- 245.45	213.54
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	193140	200.000	216.89	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	434415			196.57- 256.57	224.92
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	316248	200.000	227.33	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	180671			26.62- 86.62	57.13
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	195892	200.000	212.26	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
10.671	10.671 (1.087)	171	99535			22.90- 82.90	50.81
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	611482	200.000	220.37	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	151763			0.00- 55.02	24.82
10.769	10.769 (1.097)	51	72982			0.00- 41.92	11.94
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	347993	200.000	215.50	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	214525			28.86- 88.86	61.65
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	799789	200.000	208.77	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	156671			0.00- 49.36	19.59
11.105	11.105 (1.131)	105	30609			0.00- 33.72	3.83
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	621390	200.000	216.32	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	164222			0.00- 57.25	26.43
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	544428	200.000	219.85	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	243887			15.00- 75.00	44.80
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	490447	200.000	217.92	80.00- 120.00	100.00
11.497	11.497 (1.171)	120	210946			10.76- 70.76	43.01
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	307774	200.000	212.62	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	194404			32.32- 92.32	63.16
11.693	11.693 (1.191)	111	138375			17.13- 77.13	44.96
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	313154	200.000	205.93	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	198320			33.76- 93.76	63.33
11.763	11.763 (1.198)	111	138770			14.33- 74.33	44.31
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	325461	200.000	278.37	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	56837			0.00- 48.64	17.46
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	297632	200.000	204.53	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	188549			32.13- 92.13	63.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.986	11.986 (1.221)	111	145166			17.47- 77.47	48.77
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	224122	200.000	251.24	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	209286			61.06- 121.06	93.38
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	151421	200.000	238.24	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	97461			36.08- 96.08	64.36
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	51714	20.0000	25.748	80.00- 120.00	100.00
12.966	12.966 (1.321)	127	6469			0.00- 42.87	12.51

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: msd14.i
Lab File ID: 14021214.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

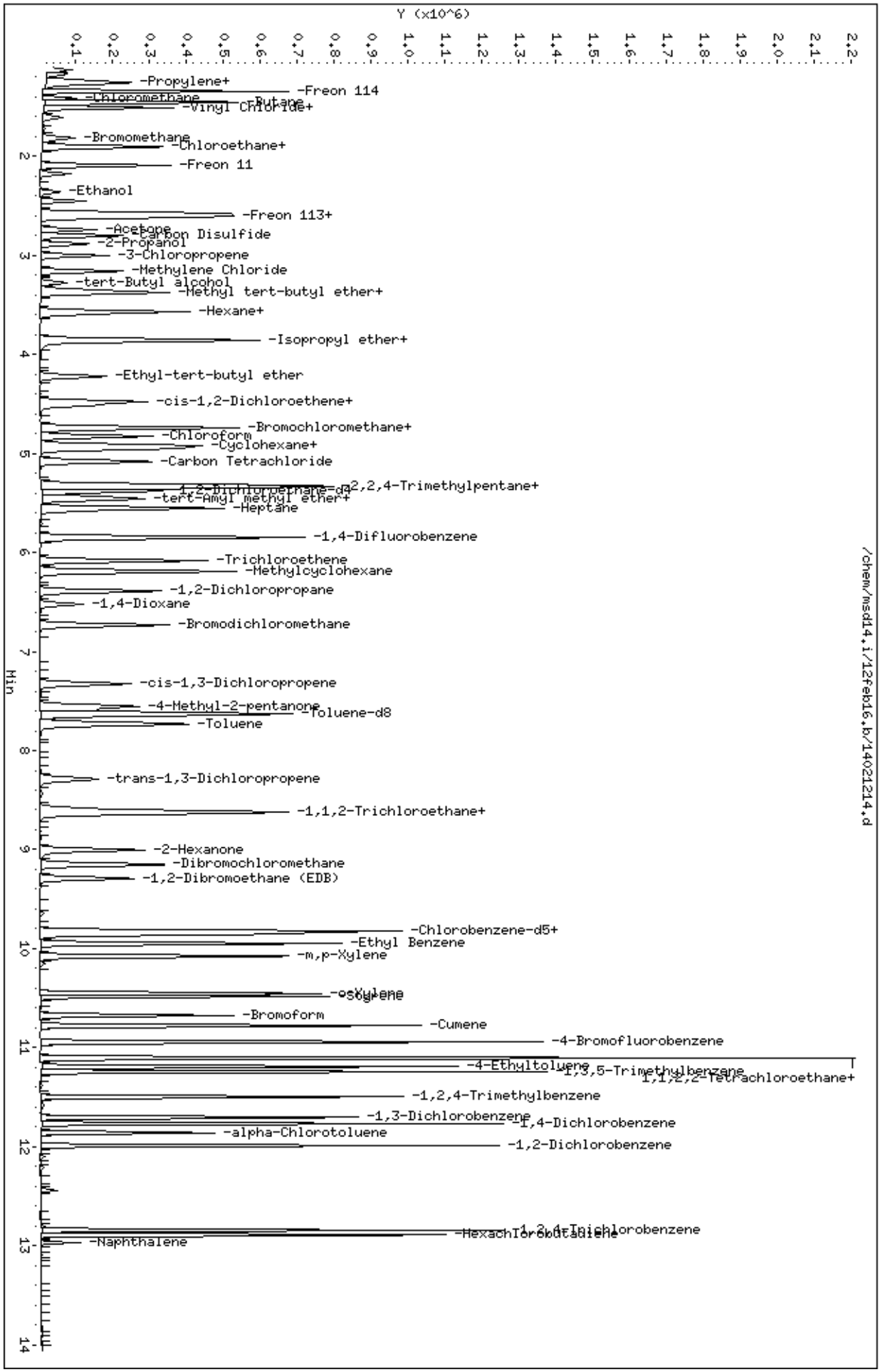
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	125919	5.91
123 1,4-Difluorobenze	558564	335138	781990	576030	3.13
163 Chlorobenzene-d5	461241	276745	645737	479943	4.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021214.d
Date : 12-FEB-2016 14:48
Client ID: Level 6
Sample Info: 50ml #2759-212
Column phase: RTX-624

Instrument: msd14.i
Operator: cb
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021215.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 12-FEB-2016 15:07
Operator : cb Inst ID: msd14.i
Smp Info : 50ml #2716-208
Misc Info : 1000ppbv (1000ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 15:50 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 15:07 Cal File: 14021215.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12NoOxyNaph.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	122528	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	96325			46.39- 106.39	78.61
4.739	4.739 (1.000)	49	217424			150.71- 210.71	177.45
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	572411	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	97923			0.00- 47.48	17.11
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	469578	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	315771			37.59- 97.59	67.25
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	211948	400.000	380.36	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	117575			24.07- 84.07	55.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	646026	400.000	407.51	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	76564			0.00- 41.71	11.85
7.621	7.621 (1.304)	100	425750			32.73- 92.73	65.90
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	244830	400.000	415.85	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	420682			142.84- 202.84	171.83
10.937	10.937 (1.114)	176	235184			67.70- 127.70	96.06
9 Propylene					CAS #: 115-07-1		
1.227	1.227 (0.259)	41	426284	1000.00	1016.8	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	281653			37.96- 97.96	66.07
1.241	1.241 (0.262)	39	294235			36.73- 96.73	69.02
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	1502295	1000.00	1018.5	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	484074			1.63- 61.63	32.22
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	879893	1000.00	1069.9	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	283107			2.50- 62.50	32.18
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	561999	1000.00	873.95	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	183011			1.39- 61.39	32.56
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	156152	1000.00	1005.4	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	853853			511.27- 571.27	546.81
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	689632	1000.00	1018.0	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	208091			0.78- 60.78	30.17
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	541657	1000.00	1020.4	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	396352			41.76- 101.76	73.17
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	387252	1000.00	1031.4	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	360689			66.30- 126.30	93.14
1.814	1.814 (0.383)	79	62520			0.00- 44.41	16.14
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	326907	1000.00	1067.9	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	101982			2.16- 62.16	31.20
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	657520	1000.00	1070.4	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	553535			52.83- 112.83	84.19
1.912	1.912 (0.404)	72	59608			0.00- 38.88	9.07
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	1372070	1000.00	1035.9	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	886882			34.93- 94.93	64.64
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	201381	1000.00	659.25	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	40012			0.00- 52.67	19.87
2.360	2.360 (0.498)	46	86029			12.37- 72.37	42.72
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	781013	1000.00	1047.8	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	493052			34.36- 94.36	63.13
2.584	2.584 (0.545)	101	1180536			119.53- 179.53	151.15
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	1123277	1000.00	972.18	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	566400			21.57- 81.57	50.42
2.612	2.612 (0.551)	98	366915			1.98- 61.98	32.66
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	348177	1000.00	1066.1	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	880227			233.69- 293.69	252.81
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	1744076	1000.00	1051.3	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	952293	1000.00	1138.0	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	185357			0.00- 53.85	19.46
2.878	2.878 (0.607)	59	45497			0.00- 34.34	4.78
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	273263	1000.00	1234.0	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	671833			227.89- 287.89	245.86
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	746473	1000.00	987.24	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	547191			40.30- 100.30	73.30

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

   66 Methylene Chloride (continued)
  3.158   3.158 (0.666)    51    239772                     1.79-  61.79    32.12
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                        CAS #: 1634-04-4
  3.354   3.354 (0.708)    73   1040696 1000.00   2069.7  80.00- 120.00   100.00
  3.354   3.354 (0.708)    57    273517                     0.00-  58.10    26.28
  3.354   3.354 (0.708)    41    239154                     0.00-  57.12    22.98
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                       CAS #: 156-60-5
  3.382   3.382 (0.714)    96    599434 1000.00   1073.9  80.00- 120.00   100.00
  3.382   3.382 (0.714)    61   1010679                   142.56- 202.56   168.61
  3.382   3.382 (0.714)    98    387302                    36.64-  96.64    64.61
-------------------------------------------------------------------------------
   78 Hexane                                         CAS #: 110-54-3
  3.577   3.577 (0.755)    57   1179114 1000.00   1124.7  80.00- 120.00   100.00
  3.577   3.577 (0.755)    43    605109                    21.59-  81.59    51.32
  3.577   3.577 (0.755)    86    178344                     0.00-  46.40    15.13
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                             CAS #: 75-34-3
  3.871   3.871 (0.817)    63   1271860 1000.00   1080.8  80.00- 120.00   100.00
  3.871   3.871 (0.817)    65    382551                     0.00-  59.48    30.08
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                  CAS #: 108-05-4
  3.913   3.913 (0.826)    86     80522 1000.00           80.00- 120.00   100.00(aH)
  3.913   3.913 (0.826)    43    747685                   284.51- 344.51   928.55
  3.913   3.913 (0.826)    42     62107                   138.34- 198.34    77.13
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                         CAS #: 156-59-2
  4.487   4.487 (0.947)    61    979790 1000.00   1079.2  80.00- 120.00   100.00
  4.487   4.487 (0.947)    96    633790                    32.15-  92.15    64.69
  4.487   4.487 (0.947)    98    407879                    10.13-  70.13    41.63
-------------------------------------------------------------------------------
   92 2-Butanone                                     CAS #: 78-93-3
  4.515   4.515 (0.953)    72    300538 1000.00   1216.6  80.00- 120.00   100.00
  4.515   4.515 (0.953)    43   1173880                   379.79- 439.79   390.59
  4.515   4.515 (0.953)    57    109922                     6.25-  66.25    36.58
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  4.725   4.725 (0.997)    42    661355 1000.00   1140.8  80.00- 120.00   100.00
  4.725   4.725 (0.997)    71    278557                    11.50-  71.50    42.12
  4.725   4.725 (0.997)    72    294254                    12.84-  72.84    44.49
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  4.823   4.823 (1.018)    83   1299080 1000.00   1054.2  80.00- 120.00   100.00
  4.823   4.823 (1.018)    85    810481                    32.14-  92.14    62.39
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	901173	1000.00	1114.5	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	1223972			99.79- 159.79	135.82
4.921	4.921 (1.038)	41	512851			28.40- 88.40	56.91
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	1243136	1000.00	1183.2	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	803164			36.51- 96.51	64.61
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.089	5.089 (1.074)	119	1086451	1000.00	1189.3	80.00- 120.00	100.00
5.089	5.089 (1.074)	117	1122628			75.71- 135.71	103.33
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	3772618	1000.00	1136.5	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	1276062			4.19- 64.19	33.82
5.326	5.326 (1.124)	41	751220			0.00- 50.55	19.91
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	1951854	1000.00	1059.9	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	467039			0.00- 53.33	23.93
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	949500	1000.00	1058.7	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	288085			1.49- 61.49	30.34
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	712822	1000.00	1125.8	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	1118992			128.82- 188.82	156.98
5.564	5.564 (0.952)	100	220296			0.00- 59.89	30.90
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	849411	1000.00	947.90	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	717974			53.70- 113.70	84.53
6.082	6.082 (1.041)	97	538039			34.03- 94.03	63.34
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	1209795	1000.00	1075.1	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	565944			15.61- 75.61	46.78
6.194	6.194 (1.060)	55	1128996			65.29- 125.29	93.32
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	826774	1000.00	1070.4	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	610452			44.72- 104.72	73.84
6.390	6.390 (1.093)	41	367861			18.10- 78.10	44.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	449060	1000.00	1133.2	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	379744			60.63- 120.63	84.56
6.530	6.530 (1.117)	57	119023			0.00- 59.33	26.50
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.726 (1.151)	83	1443791	1000.00	1075.8	80.00- 120.00	100.00
6.726	6.726 (1.151)	85	880045			28.84- 88.84	60.95
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	1142717	1000.00	1370.5	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	360243			2.17- 62.17	31.53
7.327	7.327 (1.254)	39	483286			14.65- 74.65	42.29
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	244910	1000.00	1319.7	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	1419158			589.74- 649.74	579.46
7.565	7.565 (1.294)	58	707120			296.38- 356.38	288.73
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	2291052	1000.00	1063.6	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	1360041			28.91- 88.91	59.36
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	927038	1000.00	1725.5	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	294957			2.18- 62.18	31.82
8.293	8.293 (0.845)	39	383150			10.13- 70.13	41.33
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	795387	1000.00	1070.5	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	489792			34.34- 94.34	61.58
8.614	8.614 (0.877)	83	727166			63.48- 123.48	91.42
156 Tetrachloroethene					CAS #: 127-18-4		
8.629	8.629 (0.879)	166	806317	1000.00	1072.8	80.00- 120.00	100.00
8.614	8.614 (0.877)	129	660634			51.36- 111.36	81.93
8.614	8.614 (0.877)	131	642613			49.19- 109.19	79.70
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	914036	1000.00	1299.3	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	1325606			125.38- 185.38	145.03
9.006	9.006 (0.917)	100	160469			0.00- 48.37	17.56
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	1221284	1000.00	1084.8	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	951526			47.63- 107.63	77.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	1138135	1000.00	1123.2	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	1065977			61.71- 121.71	93.66
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	1676270	1000.00	1047.8	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	537164			1.37- 61.37	32.05
9.846	9.846 (1.003)	77	1090209			39.20- 99.20	65.04
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	879175	1000.00	1117.1	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	3022655			310.29- 370.29	343.81
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	1090945	1000.00	1158.6	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	2341586			185.45- 245.45	214.64
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	1019265	1000.00	1169.8	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	2333237			196.57- 256.57	228.91
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	1763650	1000.00	1295.7	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	953678			26.62- 86.62	54.07
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	1021428	1000.00	1131.2	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	532478			22.90- 82.90	52.13
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	3233135	1000.00	1190.9	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	777720			0.00- 55.02	24.05
10.769	10.769 (1.097)	51	373964			0.00- 41.92	11.57
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	1818021	1000.00	1150.7	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	1119193			28.86- 88.86	61.56
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	4226530	1000.00	1127.6	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	815759			0.00- 49.36	19.30
11.105	11.105 (1.131)	105	148191			0.00- 33.72	3.51
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	3197192	1000.00	1137.6	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	865909			0.00- 57.25	27.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	2744840	1000.00	1132.9	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	1235129			15.00- 75.00	45.00
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	2605607	1000.00	1183.3	80.00- 120.00	100.00
11.497	11.497 (1.171)	120	1079090			10.76- 70.76	41.41
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	1488055	1000.00	1050.7	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	940726			32.32- 92.32	63.22
11.693	11.693 (1.191)	111	688555			17.13- 77.13	46.27
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	1547742	1000.00	1040.3	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	976490			33.76- 93.76	63.09
11.763	11.763 (1.198)	111	692054			14.33- 74.33	44.71
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.861 (1.208)	91	2128263	1000.00	1860.5	80.00- 120.00	100.00
11.861	11.861 (1.208)	126	376220			0.00- 48.64	17.68
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.987	11.987 (1.221)	146	1431992	1000.00	1005.8	80.00- 120.00	100.00
11.987	11.987 (1.221)	148	902572			32.13- 92.13	63.03
11.987	11.987 (1.221)	111	695638			17.47- 77.47	48.58
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	823058	1000.00	943.03	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	778774			61.06- 121.06	94.62
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	577627	1000.00	928.86	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	363825			36.08- 96.08	62.99

QC Flag Legend

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

Report Date: 12-Feb-2016 15:50

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14021215.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 1000ppbv (1000ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	122528	3.05
123 1,4-Difluorobenze	558564	335138	781990	572411	2.48
163 Chlorobenzene-d5	461241	276745	645737	469578	1.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021215.d

Date : 12-FEB-2016 15:07

Client ID: Level 7

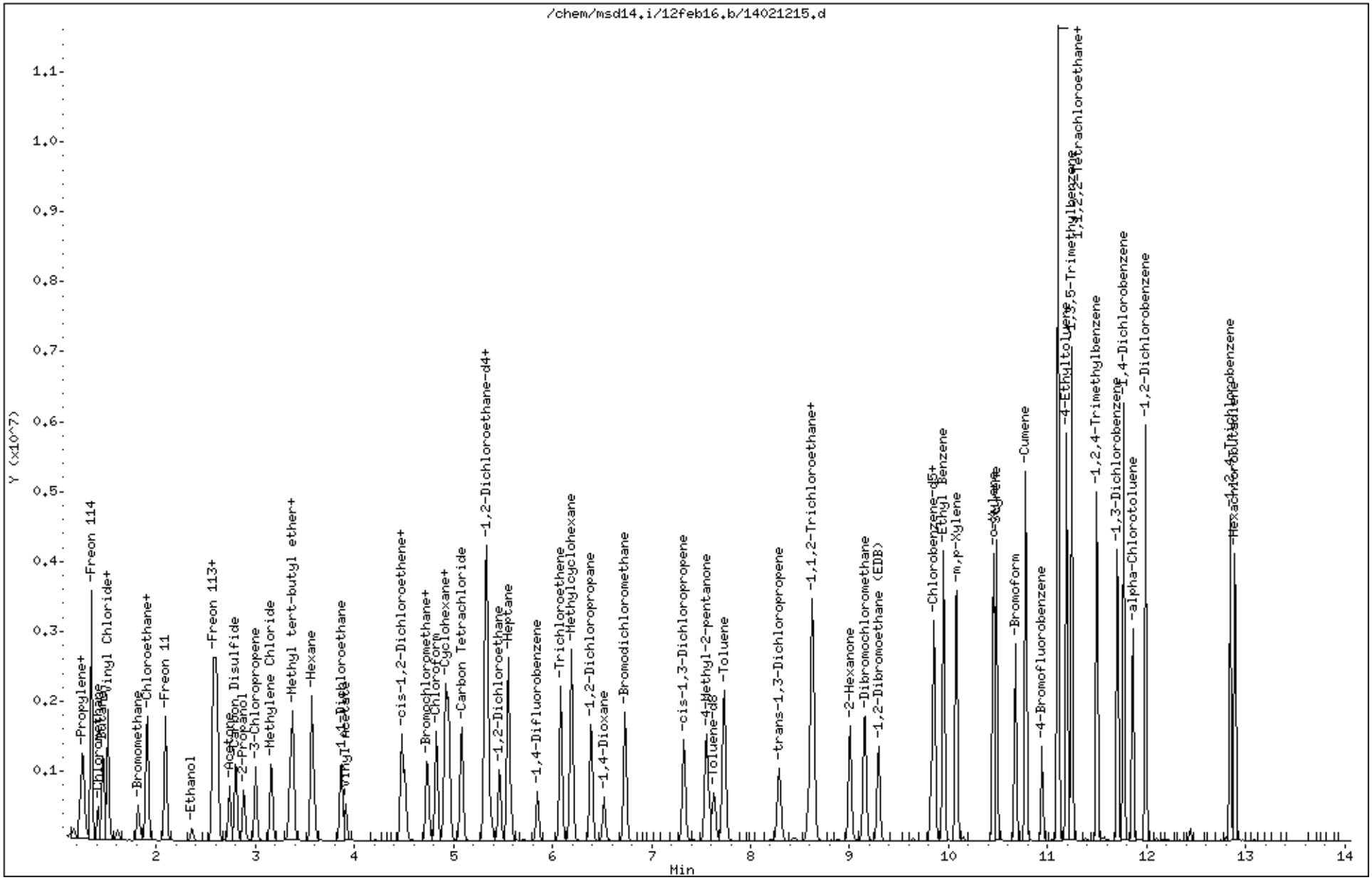
Sample Info: 50ml #2716-208

Column phase: RTX-624

Instrument: msd14.i

Operator: cb

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/12feb16.b/14021216.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 12-FEB-2016 15:25
Operator : cb Inst ID: msd14.i
Smp Info : 25ml #2759-169A
Misc Info : 500ppbv (500ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/12feb16.b/14650212a.m
Meth Date : 12-Feb-2016 15:50 cbond Quant Type: ISTD
Cal Date : 12-FEB-2016 15:25 Cal File: 14021216.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: NaphICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	120851	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	95119			46.39- 106.39	78.71
4.739	4.739 (1.000)	49	212189			150.71- 210.71	175.58
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	555903	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	97623			0.00- 47.48	17.56
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	457830	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	309394			37.59- 97.59	67.58
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	1013775	500.000	529.12	80.00- 120.00	100.00(A)
12.966	12.966 (1.321)	127	128567			0.00- 42.87	12.68

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: msd14.i
Lab File ID: 14021216.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd14.i/12feb16.b/14650212a.m
Misc Info: 500ppbv (500ppbv)

Calibration Date: 12-FEB-2016
Calibration Time: 14:28
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	118896	71338	166454	120851	1.64
123 1,4-Difluorobenze	558564	335138	781990	555903	-0.48
163 Chlorobenzene-d5	461241	276745	645737	457830	-0.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/12feb16.b/14021216.d

Date : 12-FEB-2016 15:25

Client ID: Level 9

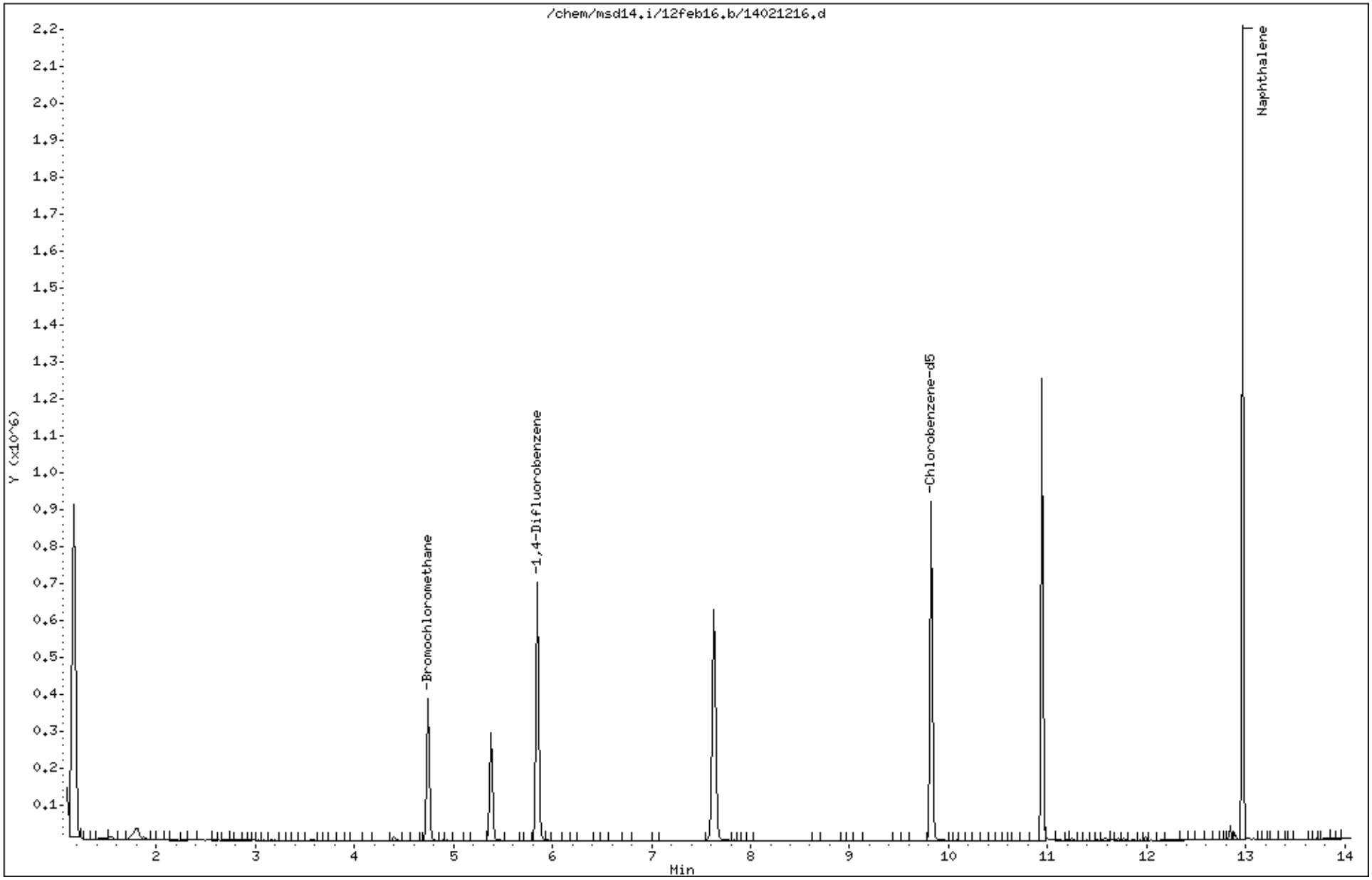
Sample Info: 25ml #2759-169A

Column phase: RTX-624

Instrument: msd14.i

Operator: cb

Column diameter: 0.18



Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-FEB-2016 14:10
End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/01feb16.b/p020102.d
Level 3: /chem/msdp.i/01feb16.b/p020103.d
Level 4: /chem/msdp.i/01feb16.b/p020104.d
Level 5: /chem/msdp.i/01feb16.b/p020105.d
Level 6: /chem/msdp.i/01feb16.b/p020106.d
Level 7: /chem/msdp.i/01feb16.b/p020107.d
Level 8: /chem/msdp.i/01feb16.b/p020108.d

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	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-FEB-2016 14:10
End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
8 Propane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++ 1.03215	1.22218	1.16725	0.89455	1.00513	1.00570	1.05449	11.359
10 1,1-Difluoroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	2.59267 2.86211	2.96220	3.20968	2.33104	2.74728	2.76300	2.78114	9.984
12 Vinyl Fluoride	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	1.94248 2.22077	2.28195	2.50346	1.87169	2.08254	2.13851	2.14877	9.919
16 Freon 142b	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloromethane	+++++ 0.93444	0.54605	0.68130	1.10699	1.20550	1.08320	0.92625	28.149

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-FEB-2016 14:10
End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
18 Isobutane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Isobutylene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 2-Butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 trans-2-butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 1-Butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Butane	+++++ 0.29307	0.37044	0.31468	0.21988	0.23223	0.27876	0.28484	19.427
24 cis-2-Butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Vinyl Chloride	1.23517 1.32686	1.21929	1.35376	0.98436	1.20075	1.34826	1.23835	10.401
26 1,3-Butadiene	1.07224 1.00236	1.14837	1.03955	0.89373	0.98511	1.00797	1.02133	7.709
27 3-Methyl-1-butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-FEB-2016 14:10
End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
28 Methanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	0.60030 0.84811	0.57571	0.68441	0.68500	0.80578	0.83812	0.71963	15.574
30 Chloroethane	+++++ 0.57072	0.61246	0.64726	0.43290	0.52412	0.55181	0.55654	13.427
31 Isopentane	+++++ 1.55916	1.69640	1.71189	1.44845	1.48686	1.47681	1.56326	7.368
32 Vinyl Bromide	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	2.66782 2.94446	3.09099	3.29818	2.57991	2.82365	2.88324	2.89832	8.445
36 1-Pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoromethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-FEB-2016 14:10
End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
38 2,3-Dimethylbutane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-2-butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++ 0.52972	0.43472	0.44664	0.44978	0.49631	0.49626	0.47557	7.846
43 1,2-Dichloro-1-fluoroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

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	
48 Freon 123	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	2.26773 / 2.23646	2.50133	2.53731	2.25072	2.21388	2.17235	2.31140	6.298	
50 1,1-Dichloroethene	0.57324 / 0.65009	0.73798	0.72417	0.54118	0.61104	0.63438	0.63887	11.408	
51 2,2-Dimethylbutane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	+++++ / 0.58377	0.88774	0.81233	0.50121	0.58124	0.58819	0.65908	23.254	
53 Iodomethane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	+++++ / 2.85733	3.16305	3.17577	2.37796	2.74601	2.77991	2.85001	10.441	
57 2-Propanol	+++++ / 2.40753	4.44593	3.02459	2.08511	2.44270	2.46557	2.81191	30.440	<-

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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
58 3-Chloropropene	+++++ 0.48362	0.55444	0.53886	0.35831	0.45356	0.46456	0.47556	14.763
59 Cyclopentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2-Methylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Methyl Acetate	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 3-Methylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Acetonitrile	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Cyclopentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 1-Chloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Methylene Chloride	1.22675 1.64997	1.76327	1.79089	1.27806	1.56532	1.59702	1.55304	14.261
67 2-Methyl-1-pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
68 2,4-Dimethylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 2,3-Dimethylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 tert-Butyl chloride	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 tert-Butyl alcohol	+++++ 2.85260	3.02069	3.17100	2.56871	2.74222	2.74380	2.84984	7.594
72 Methyl tert-butyl ether	3.24468 3.03342	3.17739	3.24556	3.01642	3.01019	2.95795	3.09794	3.903
73 trans-1,2-Dichloroethene	0.46743 0.68619	0.73660	0.74216	0.52027	0.65238	0.65925	0.63775	16.508
74 Acrylonitrile	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 trans-2-Hexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 1-Hexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 cis-2-Hexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
78 Hexane	2.09608 / 2.10946	2.32732	2.33099	1.76982	2.00207	2.02027	2.09372	9.348
79 Methylcyclopentane	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
80 sec-Butyl chloride	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
81 2,3,4-Trimethylpentane	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
82 1,1-Dichloroethane	1.83276 / 2.23894	2.32175	2.47308	1.77183	2.07779	2.15736	2.12479	11.941
83 Isopropyl ether	++++++ / 4.62017	4.83741	4.90104	4.37823	4.51056	4.49119	4.62310	4.467
84 1-Propanol	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
85 Chloroprene	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
86 Vinyl Acetate	++++++ / 0.28991	0.30349	0.28796	0.23236	0.27337	0.28951	0.27943	8.932
87 Butanal	++++++ / ++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

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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
88 Ethyl-tert-butyl ether	+++++ / 4.32467	4.36884	4.55251	4.08753	4.22224	4.17287	4.28811	3.841
89 Isobutyl chloride	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	0.75901 / 0.71282	0.77221	0.81328	0.55534	0.68803	0.69552	0.71375	11.647
92 2-Butanone	+++++ / 0.53398	0.60324	0.62285	0.43463	0.52239	0.52733	0.54074	12.398
93 Methyl Acrylate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
99 Tetrahydrofuran	1.36923 1.49774	1.74909	1.52432	1.14250	1.40198	1.43873	1.44623	12.645
100 Chloroform	2.02935 2.25181	2.46610	2.58396	1.78659	2.14799	2.21896	2.21211	12.003
101 1-Bromopropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Cyclohexane	1.92865 1.43969	1.60795	1.60622	1.43223	1.45124	1.41379	1.55425	11.867
103 1,1,1-Trichloroethane	2.61672 2.43563	2.58757	2.76860	2.38692	2.48432	2.38664	2.52377	5.592
104 Chloroacetonitrile	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 n-Butylchloride	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Carbon Tetrachloride	2.54879 2.61967	2.63035	2.83092	2.54889	2.58779	2.56698	2.61905	3.772
107 1,1-Dichloropropene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 Thiophene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
109 2-Methylhexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 3-Methylhexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Cyclohexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	7.06861 6.80232	7.02267	7.39335	6.36695	6.76083	6.63783	6.86465	4.831
114 1-Methoxy-2-propanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Benzene	0.74028 0.78173	0.79937	0.83504	0.66216	0.75092	0.76396	0.76192	7.126
118 1-Heptene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	+++++ 0.20573	0.21726	0.21407	0.19645	0.19911	0.20295	0.20593	4.004
120 1,2-Dichloroethane	0.35302 0.45491	0.44082	0.47212	0.35434	0.42560	0.44297	0.42054	11.372

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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
121 Heptane	0.47627 / 0.28958	0.37459	0.31865	0.27432	0.28710	0.28499	0.32936	22.211
122 2,3-Dichloro-1-propene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 n-Butanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	0.35682 / 0.38055	0.37811	0.40446	0.30930	0.36705	0.37207	0.36691	7.999
126 Bromodichloroethene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	0.61512 / 0.51179	0.56239	0.54980	0.50767	0.52030	0.50672	0.53911	7.409
128 Ethyl acrylate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
132 1,2-Dichloropropane	0.34503	0.38089	0.37819	0.31788	0.33995	0.34038		
	0.34807						0.35006	6.390
133 1-Bromo-2-Chloroethane	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
134 Methyl Methacrylate	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
135 Diethyl Ketone	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
136 1,4-Dioxane	#####	0.19206	0.18549	0.17258	0.19403	0.19683		
	0.19737						0.18973	4.972
137 Dibromomethane	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
138 Bromodichloromethane	0.61664	0.61828	0.65266	0.51929	0.59091	0.60910		
	0.62671						0.60480	6.955
139 2-Nitropropane	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
140 bis(chloromethyl) Ether	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
141 1-Octene	#####	#####	#####	#####	#####	#####		
	#####						#####	#####

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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
142 Epichlorohydrin	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropene	0.45406 0.53833	0.52043	0.56121	0.44616	0.51059	0.52464	0.50792	8.400
145 4-Methyl-2-pentanone	0.31589 0.31727	0.31492	0.30460	0.30304	0.31050	0.31057	0.31097	1.778
147 Toluene	1.05670 1.06901	1.10093	1.16925	0.97431	1.03681	1.04988	1.06527	5.618
148 Octane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloropropene	0.48078 0.50185	0.49921	0.50619	0.42811	0.48053	0.49127	0.48399	5.493
151 Ethyl Methacrylate	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
153 1-Nitropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	0.36746 0.37379	0.42216	0.40260	0.34407	0.36881	0.37410	0.37900	6.752
156 Tetrachloroethene	0.64881 0.66172	0.71192	0.69542	0.61969	0.64525	0.64718	0.66143	4.809
157 1,3-Dichloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	0.42251 0.45272	0.36911	0.39443	0.42569	0.44351	0.44442	0.42177	7.165
159 Butyl Acetate	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	0.72710 0.78964	0.82482	0.80563	0.71894	0.77437	0.77765	0.77402	5.024
161 1,2-Dibromoethane (EDB)	0.59861 0.61970	0.64679	0.64829	0.55741	0.61360	0.61794	0.61462	5.031
162 1-Nonene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
164 1-Chlorohexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	0.89973 0.95152	0.94032	1.00012	0.91921	0.92845	0.94564	0.94071	3.351
166 Butyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	0.52904 0.48197	0.49377	0.49941	0.49482	0.48870	0.47536	0.49472	3.476
168 1,1,1,2-Tetrachloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	0.60806 0.59776	0.59762	0.60979	0.60226	0.60391	0.59258	0.60171	1.021
170 Nonane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	0.59837 0.57048	0.60358	0.54726	0.58199	0.57771	0.56393	0.57762	3.378
172 Styrene	0.75922 0.96920	0.74527	0.73663	0.96078	0.94508	0.94087	0.86529	12.852
173 2-Heptanone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-FEB-2016 14:10
End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
174 Bromoform	0.92015	0.94963	0.94731	0.93869	0.95215	0.95815		
	0.98841						0.95064	2.177
175 Cumene	1.95701	1.84142	1.77634	1.86418	1.82219	1.77301		
	1.77638						1.83008	3.631
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
181 1,1,2,2-Tetrachloroethane	0.99077	0.97516	0.91752	0.92830	0.89339	0.86285		
	0.86082						0.91840	5.549
182 Propylbenzene	2.25055	2.14801	2.12363	2.22757	2.16746	2.08717		
	2.05892						2.15190	3.250
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
184 trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
185 1,2,3-Trichloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 3-Ethyltoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Ethyltoluene	0.54801 0.55569	0.62276	0.58118	0.62372	0.61073	0.59440	0.59093	5.203
189 2-Chlorotoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	0.74026 0.77033	0.70518	0.70470	0.79416	0.77568	0.75526	0.74937	4.624
191 4-Chlorotoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 beta-Pinene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 01-FEB-2016 17:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
195 tert-Butylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	0.67787 0.69541	0.66551	0.65085	0.72968	0.71250	0.69590	0.68967	3.937
197 Pentachloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
205 2-Ethyltoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 bis(2-Chloroethyl) Ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 p-Cymene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3-Dichlorobenzene	1.14024 / 1.16015	1.24337	1.16605	1.18466	1.17933	1.15425	1.17544	2.848
209 1,4-Dichlorobenzene	1.26300 / 1.16673	1.18486	1.20088	1.18236	1.18754	1.15984	1.19217	2.856
210 1,2,3-Trimethylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1-Undecene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 alpha-Chlorotoluene	1.43055 / 1.50627	1.45653	1.45178	1.55206	1.53035	1.48919	1.48810	2.985
213 Butylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 1,2-Dichlorobenzene	1.00441 / 1.10813	1.18079	1.16986	1.14681	1.13458	1.09876	1.12048	5.288

Eurofins Air Toxics Inc.

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Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
215 Undecane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 4-Ethyl-1,2-dimethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Hexachloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 1,3-Diethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 1,4-Diethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 1,2,4,5-tetramethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 1,2-Dibromo-3-chloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1-Dodecene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 Nitrobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 01-FEB-2016 17:22
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Origin : Disabled
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Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
225 Dodecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,2,4-Trichlorobenzene	+++++ / 1.15933	0.89435	1.13543	0.52711	0.91142	1.06613	0.94896	24.718
227 Hexachlorobutadiene	+++++ / 1.01762	0.85442	0.98247	0.43640	0.75916	0.90604	0.82602	25.663
228 Naphthalene	+++++ / 2.11234	1.43918	1.56050	1.01124	1.69629	1.94653	1.62768	23.973
229 1,2,3-Trichlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
230 Tridecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
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.

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Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
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.

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Integrator : HP RTE
Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
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.

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Integrator : HP RTE
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Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

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
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	1.40442 1.60295	1.43040	1.46941	1.42251	1.48031	1.51724	1.47532	4.625
$ 146 Toluene-d8	0.98040 1.01409	0.99952	0.99878	0.99634	1.00208	1.00063	0.99883	0.995
$ 177 4-Bromofluorobenzene	0.79005 0.81834	0.78980	0.79672	0.80589	0.82096	0.82217	0.80627	1.783

Calibration History

Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Start Cal Date: 01-FEB-2016 14:10
End Cal Date : 01-FEB-2016 17:22

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.50000		
01-FEB-2016 14:10	AT12low	/chem/msdp.i/01feb16.b/p020102.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 2.00000		
01-FEB-2016 15:17	AT12mdl	/chem/msdp.i/01feb16.b/p020103.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 5.00000		
01-FEB-2016 15:43	AT12mdl	/chem/msdp.i/01feb16.b/p020104.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 20.00000		
01-FEB-2016 16:07	AT12mdl	/chem/msdp.i/01feb16.b/p020105.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 50.00000		
01-FEB-2016 16:31	AT12	/chem/msdp.i/01feb16.b/p020106.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 100.00000		
01-FEB-2016 16:56	AT12	/chem/msdp.i/01feb16.b/p020107.d

Injection Date	Sublist	Calibration File
Cal Level: 8 , Cal Amount: 200.00000		
01-FEB-2016 17:22	AT12	/chem/msdp.i/01feb16.b/p020108.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

```
+------------------+-----------------+----------------------------------------+
| Ccal Level: 6 , Ccal Amount: 50.000                                        |
+==========================================================================+
|01-FEB-2016 16:31 |AT12             |/chem/msdp.i/01feb16.b/p020106.d        |
+------------------+-----------------+----------------------------------------+
| Ccal Level: 6 , Ccal Amount: 50.000                                        |
+==========================================================================+
|01-FEB-2016 16:31 |AT12             |/chem/msdp.i/01feb16.b/p020106a.d       |
+------------------+-----------------+----------------------------------------+
```

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Method file : /chem/msdp.i/01feb16.b/p16q0201a.m
Cal Date : 02-Feb-2016 12:36 sblack
Curve Type : Average

SB 2/2/16

Calibration File Names:
Level 2: /chem/msdp.i/01feb16.b/p020102.d
Level 3: /chem/msdp.i/01feb16.b/p020103.d
Level 4: /chem/msdp.i/01feb16.b/p020104.d
Level 5: /chem/msdp.i/01feb16.b/p020105.d
Level 6: /chem/msdp.i/01feb16.b/p020106.d
Level 7: /chem/msdp.i/01feb16.b/p020107.d
Level 8: /chem/msdp.i/01feb16.b/p020108.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Initial Calibration Narrative

P16Q0201A.m

A multi-point initial calibration was analyzed on MSD-P on 2/01/16.

ICAL: zero (0) out.

ICV: zero (0) out.

ICV File: P020203; 50mL: #2759-109A(100ppbv→50ppbv)
Ok for DoD and In-house control limits

BFB Tune File: A) P020101, P020201

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

MSDP

BFB verification of 176/174 ratio: (224704/231786)* 100 = 96.94%

IS/Surr Std#	2759-216	Exp. Date:	5/1/2016
BCM	163,500		
1,4-DFB	658,886		
CB-d5	634,233		

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%): na

Method: P16Q0201a

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P020101	BFB Tune Check	#2759-216	12	36ng	1.0ml	1.00	kl	kl	02/01/16	1316	sab	
√	P020102	ICAL Level #2	2759-187	3	0.5ppbv (5.0ppbv)	20ml	1.00	sab for kl	sab for kl	02/01/16	1410	sab	exp. 4/6/16
√	P020103	ICAL Level #3	2759-187	3	2.0ppbv (5.0ppbv)	80ml	1.00	sab for kl	sab for kl	02/01/16	1517	sab	exp. 4/6/16
√	P020104	ICAL Level #4	2759-187	3	5.0ppbv (5.0ppbv)	200ml	1.00	sab for kl	sab for kl	02/01/16	1543	sab	exp. 4/6/16
√	P020105	ICAL Level #5	2759-209	13	20ppbv (200ppbv)	20ml	1.00	sab for kl	sab for kl	02/01/16	1607	sab	exp. 4/6/16
√	P020106	ICAL Level #6	2759-209	13	50ppbv (200ppbv)	50ml	1.00	sab for kl	sab for kl	02/01/16	1631	sab	exp. 4/6/16; CCV
√	P020107	ICAL Level #7	2759-209	13	100ppbv (200ppbv)	100ml	1.00	sab for kl	sab for kl	02/01/16	1656	sab	exp. 4/6/16
√	P020108	ICAL Level #8	2759-209	13	200ppbv (200ppbv)	200ml	1.00	sab for kl	sab for kl	02/01/16	1722	sab	exp. 4/6/16
X	P020109	System Blank	3S149	12	humid	200ml	1.00	sab for kl	sab for kl	02/02/16	0727	sab	
√	P020110	System Blank	3S149	12	humid	200ml	1.00	sab for kl	sab for kl	02/02/16	0754	sab	ok for ICV

2/2/16

MSDP

BFB verification of 176/174 ratio: (237141/241493)* 100 =98.20%

IS/Surr Std#	2759-216	Exp. Date:	5/1/2016
BCM	176,731		
1,4-DFB	708,899		
CB-d5	674,445		

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%): sab

Method: P16Q0201a

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P020201	BFB Tune Check	2759-216	12	36ng	1.0ml	1.00	sab	sab	2/2/16	1239	sab	exp: 5/1/16
√	P020202	CCV	2759-209	13	50ppbv (200ppbv)	50ml	1.00	sab	sab	2/2/16	1313	sab	exp. 4/6/16
√	P020203	ICV/LCS	2759-109A	14	50ppbv(100ppbv)	100ml	1.00	sab	sab	2/2/16	1337	sab	exp: 2/24/16
	P020204	LCSD	2759-109A	14	50ppbv(100ppbv)	100ml	1.00	sab	sab				

2/2/16

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/02feb16.b/p020203.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 02-FEB-2016 13:37
Operator : sab Inst ID: msdp.i
Smp Info : 100ml 2759-109A
Misc Info : 50ppbv(100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/02feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 13:48 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.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

Name	Value	Description
DF	1.00000	Dilution Factor

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	172319	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	133172			49.06- 109.06	77.28
5.456	5.449 (1.000)	49	257554			124.20- 184.20	149.46
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	702482	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	101798			0.00- 44.57	14.49
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.787 (1.000)	117	666598	25.0000		80.00- 120.00	100.00
8.787	8.787 (1.000)	82	353425			20.36- 80.36	53.02
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.993	5.986 (1.098)	65	254650	25.0417	25.042	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	137628			26.68- 86.68	54.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.555 (1.192)	98	691553	24.6398	24.640	80.00- 120.00	100.00
7.562	7.555 (1.192)	70	76211			0.00- 40.62	11.02
7.562	7.555 (1.192)	100	455130			36.74- 96.74	65.81
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.768	9.761 (1.112)	174	545168	25.3585	25.358	80.00- 120.00	100.00
9.768	9.761 (1.112)	95	525490			65.95- 125.95	96.39
9.768	9.761 (1.112)	176	524515			65.80- 125.80	96.21
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	360739	49.6313	49.631	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	239283			34.60- 94.60	66.33
1.479	1.479 (0.271)	39	274792			43.23- 103.23	76.17
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	1044113	54.4668	54.467	80.00- 120.00	100.00
1.507	1.507 (0.276)	87	338964			1.76- 61.76	32.46
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.299)	135	829215	55.9866	55.986	80.00- 120.00	100.00
1.633	1.633 (0.299)	137	269614			2.23- 62.23	32.51
17 Chloromethane					CAS #: 74-87-3		
1.717	1.717 (0.315)	50	396516	62.1071	62.107	80.00- 120.00	100.00
1.717	1.717 (0.315)	52	125694			0.00- 59.98	31.70
23 Butane					CAS #: 106-97-8		
1.786	1.787 (0.327)	58	92335	47.0292	47.029	80.00- 120.00	100.00
1.786	1.787 (0.327)	43	733855			783.10- 843.10	794.77
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.829 (0.335)	62	501031	58.6987	58.699	80.00- 120.00	100.00
1.828	1.829 (0.335)	64	156462			5.16- 65.16	31.23
26 1,3-Butadiene					CAS #: 106-99-0		
1.856	1.843 (0.340)	54	366893	52.1169	52.117	80.00- 120.00	100.00
1.842	1.843 (0.338)	39	480976			81.92- 141.92	131.09
29 Bromomethane					CAS #: 74-83-9		
2.211	2.204 (0.405)	94	303020	61.0895	61.090	80.00- 120.00	100.00
2.211	2.204 (0.405)	96	285150			65.10- 125.10	94.10
30 Chloroethane					CAS #: 75-00-3		
2.326	2.318 (0.426)	64	209332	54.5685	54.568	80.00- 120.00	100.00
2.326	2.318 (0.426)	66	63063			0.00- 59.99	30.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.326	2.318 (0.426)	49	70660			5.85- 65.85	33.75
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	542108	50.3108	50.311	80.00- 120.00	100.00
2.347	2.340 (0.430)	57	362251			36.22- 96.22	66.82
35 Freon 11					CAS #: 75-69-4		
2.576	2.569 (0.472)	101	1078612	53.9915	53.991	80.00- 120.00	100.00
2.576	2.569 (0.472)	103	695100			34.50- 94.50	64.44
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	170144	51.9049	51.905	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	34615			0.00- 50.77	20.34
2.884	2.884 (0.529)	46	66096			8.68- 68.68	38.85
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.590)	151	794663	49.8787	49.879	80.00- 120.00	100.00
3.221	3.214 (0.590)	153	505497			33.45- 93.45	63.61
3.221	3.214 (0.590)	101	836154			74.36- 134.36	105.22
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	234181	53.1799	53.180	80.00- 120.00	100.00
3.242	3.242 (0.594)	96	367267			133.60- 193.60	156.83
3.242	3.242 (0.594)	61	760134			302.57- 362.57	324.59
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	212189	46.7082	46.708	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	752010			323.05- 383.05	354.41
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	902221	45.9276	45.928	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.651)	45	936311	48.3088	48.309	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	185190			0.00- 49.72	19.78
3.550	3.550 (0.651)	59	32918			0.00- 33.36	3.52
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	161346	49.2223	49.222	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	602759			339.09- 399.09	373.58
66 Methylene Chloride					CAS #: 75-09-2		
3.909	3.901 (0.716)	49	573465	53.5711	53.571	80.00- 120.00	100.00
3.909	3.909 (0.716)	84	320860			25.63- 85.63	55.95
3.909	3.901 (0.716)	51	172895			0.46- 60.46	30.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.124 (0.756)	73	1075392	50.3617	50.362	80.00- 120.00	100.00
4.123	4.124 (0.756)	57	318874			0.00- 59.13	29.65
4.123	4.124 (0.756)	41	306120			0.00- 58.91	28.47
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.760)	98	209094	47.5658	47.566	80.00- 120.00	100.00
4.145	4.145 (0.760)	61	572402			242.97- 302.97	273.75
4.152	4.145 (0.761)	96	329109			127.33- 187.33	157.40
78 Hexane					CAS #: 110-54-3		
4.374	4.374 (0.802)	57	739148	51.2177	51.218	80.00- 120.00	100.00
4.374	4.367 (0.802)	43	472169			34.30- 94.30	63.88
4.374	4.374 (0.802)	86	91650			0.00- 42.17	12.40
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.850)	63	786943	53.7322	53.732	80.00- 120.00	100.00
4.639	4.639 (0.850)	65	232626			0.09- 60.09	29.56
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.860)	86	100929	52.4020	52.402	80.00- 120.00	100.00
4.689	4.682 (0.860)	43	1355746			1535.12-1595.12	1343.27
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.957)	98	282222	57.3659	57.366	80.00- 120.00	100.00
5.219	5.219 (0.957)	96	441647			125.21- 185.21	156.49
5.219	5.219 (0.957)	61	687901			211.41- 271.41	243.74
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	190436	51.0941	51.094	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	924159			452.15- 512.15	485.29
5.248	5.248 (0.962)	57	71663			9.54- 69.54	37.63
99 Tetrahydrofuran					CAS #: 109-99-9		
5.449	5.442 (0.999)	42	512026	51.3644	51.364	80.00- 120.00	100.00
5.449	5.442 (0.999)	71	169291			2.09- 62.09	33.06
5.449	5.442 (0.999)	72	170485			3.61- 63.61	33.30
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	795299	52.1592	52.159	80.00- 120.00	100.00
5.513	5.513 (1.010)	85	523063			35.60- 95.60	65.77
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	513551	47.9368	47.937	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	759876			115.43- 175.43	147.97
5.628	5.628 (1.032)	41	433564			53.65- 113.65	84.42

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	873585	50.2183	50.218	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	551680			33.21- 93.21	63.15
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.055)	119	925356	51.2591	51.259	80.00- 120.00	100.00
5.757	5.757 (1.055)	117	970290			76.21- 136.21	104.86
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	2408369	50.8992	50.899	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	769595			1.10- 61.10	31.96
5.964	5.964 (1.093)	41	675275			0.00- 57.08	28.04
116 Benzene					CAS #: 71-43-2		
5.972	5.972 (0.941)	78	1116000	52.1265	52.126	80.00- 120.00	100.00
5.972	5.972 (0.941)	77	266989			0.00- 53.91	23.92
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.058 (0.955)	62	628508	53.1874	53.187	80.00- 120.00	100.00
6.057	6.058 (0.955)	64	196249			0.29- 60.29	31.22
121 Heptane					CAS #: 142-82-5		
6.136	6.136 (0.967)	71	412319	44.5521	44.552	80.00- 120.00	100.00
6.136	6.129 (0.967)	43	830655			172.43- 232.43	201.46
6.136	6.129 (0.967)	57	467653			85.51- 145.51	113.42
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	539748	52.3524	52.352	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	596278			79.80- 139.80	110.47
6.537	6.537 (1.030)	97	342360			33.64- 93.64	63.43
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	737973	48.7154	48.715	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	351446			16.94- 76.94	47.62
6.645	6.645 (1.047)	55	710554			65.75- 125.75	96.28
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	506037	51.4458	51.446	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	348069			39.62- 99.62	68.78
6.774	6.774 (1.068)	41	311935			30.53- 90.53	61.64
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	276430	51.8515	51.852	80.00- 120.00	100.00
6.860	6.853 (1.081)	58	235094			52.00- 112.00	85.05
6.860	6.853 (1.081)	57	75674			0.00- 56.29	27.38

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

  138 Bromodichloromethane                          CAS #: 75-27-4
  6.996   6.996 (1.103)    83    906594 53.3467   53.347  80.00- 120.00   100.00
  6.996   6.996 (1.103)    85    587812                    34.30-  94.30    64.84
-------------------------------------------------------------------------------
  144 cis-1,3-Dichloropropene                       CAS #: 10061-01-5
  7.375   7.376 (1.163)    75    714261 50.0461   50.046  80.00- 120.00   100.00
  7.375   7.376 (1.163)    77    227163                     2.71-  62.71    31.80
  7.375   7.368 (1.163)    39    460284                    35.07-  95.07    64.44
-------------------------------------------------------------------------------
  145 4-Methyl-2-pentanone                          CAS #: 108-10-1
  7.483   7.483 (1.180)    58    439357 50.2813   50.281  80.00- 120.00   100.00
  7.483   7.483 (1.180)    43   1140712                   230.95- 290.95   259.63
  7.483   7.483 (1.180)    85    171187                     7.98-  67.98    38.96
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.612   7.612 (1.200)    91   1504054 50.2468   50.247  80.00- 120.00   100.00
  7.612   7.612 (1.200)    92    876298                    27.38-  87.38    58.26
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                     CAS #: 10061-02-6
  7.848   7.848 (0.893)    75    689127 53.3996   53.400  80.00- 120.00   100.00
  7.848   7.848 (0.893)    77    223254                     2.10-  62.10    32.40
  7.848   7.848 (0.893)    39    431117                    30.98-  90.98    62.56
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                         CAS #: 79-00-5
  8.006   7.999 (0.911)    97    523139 51.7672   51.767  80.00- 120.00   100.00
  8.006   7.999 (0.911)    99    321355                    31.34-  91.34    61.43
  7.999   7.999 (0.910)    83    450725                    57.20- 117.20    86.16
-------------------------------------------------------------------------------
  156 Tetrachloroethene                             CAS #: 127-18-4
  8.049   8.049 (0.916)   166    918141 52.0599   52.060  80.00- 120.00   100.00
  8.049   8.049 (0.916)   129    597245                    35.33-  95.33    65.05
  8.049   8.049 (0.916)   131    592068                    35.36-  95.36    64.49
-------------------------------------------------------------------------------
  158 2-Hexanone                                    CAS #: 591-78-6
  8.171   8.171 (0.930)    58    617029 54.8663   54.866  80.00- 120.00   100.00
  8.171   8.171 (0.930)    43   1137252                   156.39- 216.39   184.31
  8.171   8.171 (0.930)   100    108863                     0.00-  48.05    17.64
-------------------------------------------------------------------------------
  160 Dibromochloromethane                          CAS #: 124-48-1
  8.314   8.314 (0.946)   129   1092539 52.9371   52.937  80.00- 120.00   100.00
  8.314   8.314 (0.946)   127    853873                    48.12- 108.12    78.15
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                       CAS #: 106-93-4
  8.428   8.429 (0.959)   107    856999 52.2937   52.294  80.00- 120.00   100.00
  8.428   8.429 (0.959)   109    813805                    63.87- 123.87    94.96
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	1308001	52.1466	52.147	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	412111			2.38- 62.38	31.51
8.808	8.808 (1.002)	77	700491			24.59- 84.59	53.55
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.008)	106	668763	50.6973	50.697	80.00- 120.00	100.00
8.858	8.858 (1.008)	91	2043566			276.53- 336.53	305.57
169 m,p-Xylene					CAS #: 108-38-3		
8.959	8.959 (1.020)	106	835712	52.0887	52.089	80.00- 120.00	100.00
8.959	8.959 (1.020)	91	1639775			166.59- 226.59	196.21
171 o-Xylene					CAS #: 95-47-6		
9.302	9.295 (1.059)	106	802145	52.0822	52.082	80.00- 120.00	100.00
9.302	9.295 (1.059)	91	1675352			176.08- 236.08	208.86
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.060)	104	1316462	57.0586	57.058	80.00- 120.00	100.00
9.317	9.317 (1.060)	78	625929			17.58- 77.58	47.55
174 Bromoform					CAS #: 75-25-2		
9.510	9.510 (1.082)	173	1782259	70.3120	70.312	80.00- 120.00	100.00
9.510	9.510 (1.082)	171	919227			21.36- 81.36	51.58
175 Cumene					CAS #: 98-82-8		
9.589	9.582 (1.091)	105	2483879	50.9023	50.902	80.00- 120.00	100.00
9.589	9.582 (1.091)	120	691313			0.00- 57.79	27.83
9.589	9.582 (1.091)	51	272125			0.00- 41.33	10.96
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.897	9.883 (1.126)	83	1221562	49.8837	49.884	80.00- 120.00	100.00
9.897	9.883 (1.126)	85	796677			34.22- 94.22	65.22
182 Propylbenzene					CAS #: 103-65-1		
9.933	9.926 (1.130)	91	2964176	51.6604	51.660	80.00- 120.00	100.00
9.940	9.926 (1.131)	120	741575			0.00- 54.34	25.02
9.933	9.926 (1.130)	105	111835			0.00- 33.54	3.77
188 4-Ethyltoluene					CAS #: 622-96-8		
10.033	10.019 (1.142)	120	788869	50.0665	50.066	80.00- 120.00	100.00
10.033	10.019 (1.142)	105	2518234			279.66- 339.66	319.22
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.083	10.069 (1.148)	120	1086243	54.3635	54.364	80.00- 120.00	100.00
10.083	10.069 (1.148)	105	2193179			169.72- 229.72	201.91

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 (1.184)	120	988375	53.7471	53.747	80.00- 120.00	100.00
10.405	10.391 (1.184)	105	2100479			185.64- 245.64	212.52
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.692	10.671 (1.217)	146	1621030	51.7211	51.721	80.00- 120.00	100.00
10.692	10.671 (1.217)	148	1041890			34.23- 94.23	64.27
10.692	10.671 (1.217)	111	598895			7.40- 67.40	36.95
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.771	10.749 (1.226)	146	1646161	51.7856	51.786	80.00- 120.00	100.00
10.771	10.749 (1.226)	148	1055447			33.60- 93.60	64.12
10.771	10.749 (1.226)	111	594505			4.87- 64.87	36.11
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.885	10.864 (1.239)	91	2073650	52.2611	52.261	80.00- 120.00	100.00
10.885	10.864 (1.239)	126	485788			0.00- 53.22	23.43
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.100	11.079 (1.263)	146	1565059	52.3846	52.385	80.00- 120.00	100.00
11.100	11.079 (1.263)	148	990081			33.66- 93.66	63.26
11.100	11.072 (1.263)	111	591690			7.92- 67.92	37.81
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.504	12.468 (1.423)	180	1337297	52.8511	52.851	80.00- 120.00	100.00
12.504	12.468 (1.423)	182	1279288			66.61- 126.61	95.66
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.597	12.562 (1.434)	225	1191042	54.0771	54.077	80.00- 120.00	100.00
12.597	12.562 (1.434)	223	754554			32.66- 92.66	63.35
228 Naphthalene					CAS #: 91-20-3		
12.769	12.733 (1.453)	128	257739	5.93865	5.939	80.00- 120.00	100.00
12.769	12.733 (1.453)	127	32099			0.00- 42.82	12.45

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020203.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /chem/msdp.i/02feb16.b/p16q0201a.m
Misc Info: 50ppbv(100ppbv)

Calibration Date: 02-FEB-2016
Calibration Time: 13:13
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	176731	106039	247423	172319	-2.50
123 1,4-Difluorobenze	708899	425339	992459	702482	-0.91
163 Chlorobenzene-d5	674445	404667	944223	666598	-1.16

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	8.79	8.46	9.12	8.79	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: 02-Feb-2016 14:27

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: ICV
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdp.i/02feb16.b/p16q0201a.m
Misc Info: 50ppbv(100ppbv)

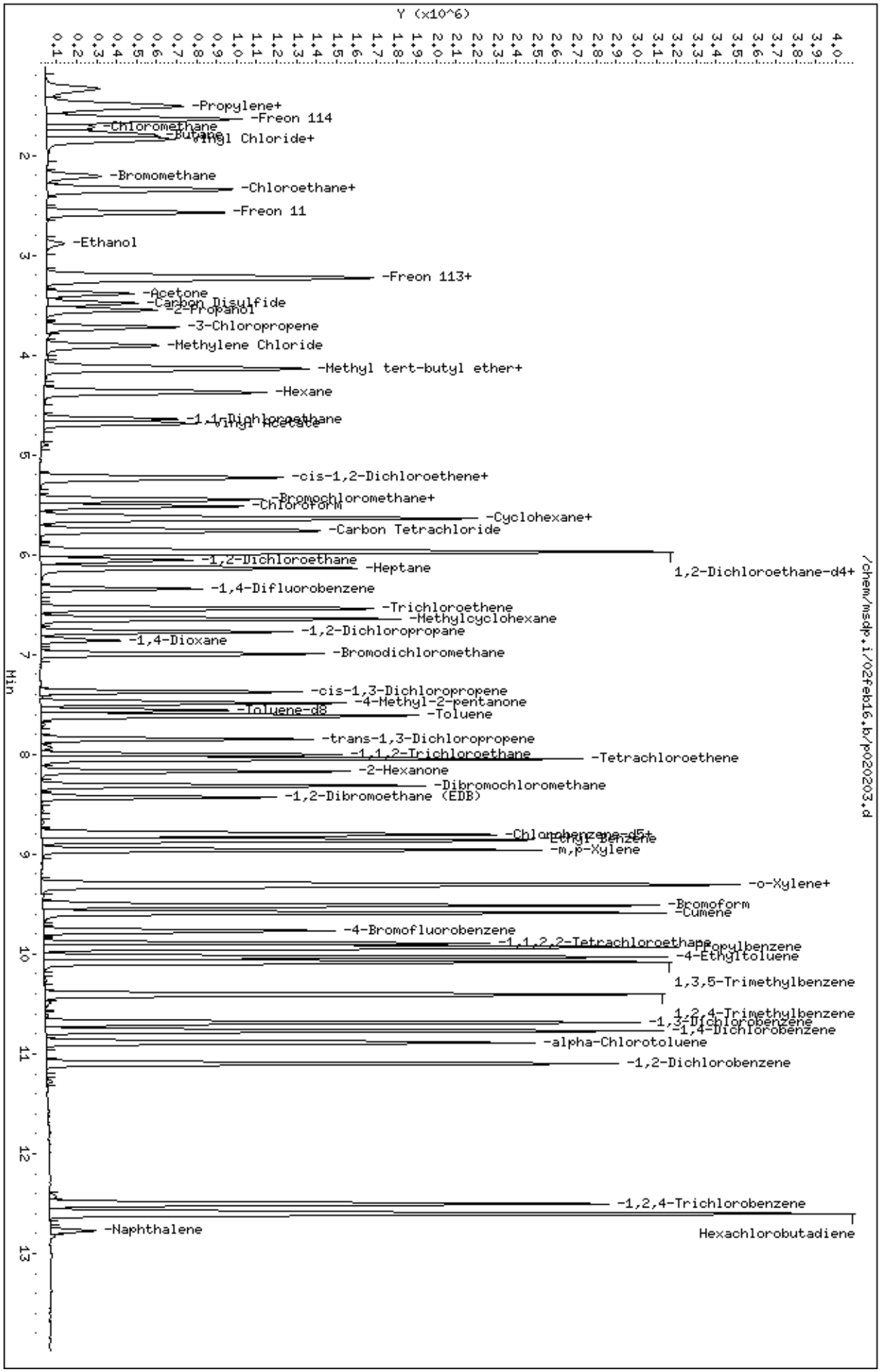
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	49.631	99.26	60-140
11 Freon 12	50.000	54.467	108.93	70-130
15 Freon 114	50.000	55.986	111.97	70-130
17 Chloromethane	50.000	62.107	124.21	70-130
23 Butane	50.000	47.029	94.06	60-140
25 Vinyl Chloride	50.000	58.699	117.40	70-130
26 1,3-Butadiene	50.000	52.117	104.23	70-130
29 Bromomethane	50.000	61.090	122.18	70-130
30 Chloroethane	50.000	54.568	109.14	70-130
31 Isopentane	50.000	50.311	100.62	60-140
35 Freon 11	50.000	53.991	107.98	70-130
42 Ethanol	50.000	51.905	103.81	70-130
49 Freon 113	50.000	49.879	99.76	70-130
50 1,1-Dichloroethene	50.000	53.180	106.36	70-130
52 Acetone	50.000	46.708	93.42	70-130
56 Carbon Disulfide	50.000	45.928	91.86	70-130
57 2-Propanol	50.000	48.309	96.62	70-130
58 3-Chloropropene	50.000	49.222	98.44	70-130
66 Methylene Chloride	50.000	53.571	107.14	70-130
72 Methyl tert-butyl	50.000	50.362	100.72	70-130
73 trans-1,2-Dichloro	42.500	47.566	111.92	70-130
78 Hexane	50.000	51.218	102.44	70-130
82 1,1-Dichloroethane	50.000	53.732	107.46	70-130
86 Vinyl Acetate	50.000	52.402	104.80	70-130
91 cis-1,2-Dichloroet	56.500	57.366	101.53	70-130
92 2-Butanone	50.000	51.094	102.19	70-130
99 Tetrahydrofuran	50.000	51.364	102.73	70-130
100 Chloroform	50.000	52.159	104.32	70-130
103 1,1,1-Trichloroeth	50.000	50.218	100.44	70-130
106 Carbon Tetrachlori	50.000	51.259	102.52	70-130
102 Cyclohexane	50.000	47.937	95.87	70-130
113 2,2,4-Trimethylpen	50.000	50.899	101.80	70-130
116 Benzene	50.000	52.126	104.25	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	53.187	106.37	70-130
121 Heptane	50.000	44.552	89.10	70-130
125 Trichloroethene	50.000	52.352	104.70	70-130
127 Methylcyclohexane	50.000	48.715	97.43	60-140
132 1,2-Dichloropropan	50.000	51.446	102.89	70-130
136 1,4-Dioxane	50.000	51.852	103.70	70-130
138 Bromodichlorometha	50.000	53.347	106.69	70-130
144 cis-1,3-Dichloropr	50.000	50.046	100.09	70-130
145 4-Methyl-2-pentano	50.000	50.281	100.56	70-130
147 Toluene	50.000	50.247	100.49	70-130
150 trans-1,3-Dichloro	50.000	53.400	106.80	70-130
155 1,1,2-Trichloroeth	50.000	51.767	103.53	70-130
156 Tetrachloroethene	50.000	52.060	104.12	70-130
158 2-Hexanone	50.000	54.866	109.73	70-130
160 Dibromochlorometha	50.000	52.937	105.87	70-130
161 1,2-Dibromoethane	50.000	52.294	104.59	70-130
165 Chlorobenzene	50.000	52.147	104.29	70-130
167 Ethyl Benzene	50.000	50.697	101.39	70-130
169 m,p-Xylene	50.000	52.089	104.18	70-130
171 o-Xylene	50.000	52.082	104.16	70-130
172 Styrene	50.000	57.058	114.12	70-130
174 Bromoform	65.000	70.312	108.17	70-130
175 Cumene	50.000	50.902	101.80	70-130
181 1,1,2,2-Tetrachlor	50.000	49.884	99.77	70-130
182 Propylbenzene	50.000	51.660	103.32	70-130
188 4-Ethyltoluene	50.000	50.066	100.13	70-130
190 1,3,5-Trimethylben	50.000	54.364	108.73	70-130
196 1,2,4-Trimethylben	50.000	53.747	107.49	70-130
208 1,3-Dichlorobenzen	50.000	51.721	103.44	70-130
209 1,4-Dichlorobenzen	50.000	51.786	103.57	70-130
212 alpha-Chlorotoluen	50.000	52.261	104.52	70-130
214 1,2-Dichlorobenzen	50.000	52.385	104.77	70-130
226 1,2,4-Trichloroben	50.000	52.851	105.70	70-130
227 Hexachlorobutadien	50.000	54.077	108.15	70-130
228 Naphthalene	5.000	5.939	118.77	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.042	100.17	70-130
$ 146 Toluene-d8	25.000	24.640	98.56	70-130
$ 177 4-Bromofluorobenze	25.000	25.358	101.43	70-130

Data File: /chem/msdp.i/02feb16.b/p020203.d
Date : 02-FEB-2016 13:37
Client ID: ICV
Sample Info: 100ml 2759-109A
Column phase: RTX-624

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/01feb16.b/p020102.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 01-FEB-2016 14:10
Operator : kl Inst ID: msdp.i
Smp Info : 20ml #2759-187
Misc Info : 0.5ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 12:35 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 14:10 Cal File: p020102.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

Name	Value	Description
DF	1.00000	Dilution Factor

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		
1.507	1.507 (0.276)	85	8625	0.50000	0.5000	80.00- 120.00	100.00
1.507	1.507 (0.276)	87	2916			1.76- 61.76	33.81
15 Freon 114					CAS #: 76-14-2		
1.632	1.632 (0.300)	135	6462	0.50000	0.5000	80.00- 120.00	100.00
1.632	1.632 (0.300)	137	1946			2.23- 62.23	30.11
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.336)	62	4109	0.50000	0.5000	80.00- 120.00	100.00
1.814	1.814 (0.333)	64	2044			5.16- 65.16	49.74
26 1,3-Butadiene					CAS #: 106-99-0		
1.842	1.842 (0.338)	54	3567	0.50000	0.5000	80.00- 120.00	100.00
1.842	1.842 (0.338)	39	3615			81.92- 141.92	101.35
29 Bromomethane					CAS #: 74-83-9		
2.211	2.211 (0.406)	94	1997	0.50000	0.5000	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
29 Bromomethane (continued)							
2.204	2.204 (0.404)	96	2491			65.10- 125.10	124.74
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	8875	0.50000	0.5000	80.00- 120.00	100.00
2.569	2.569 (0.471)	103	5784			34.50- 94.50	65.17
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.591)	151	7544	0.50000	0.5000	80.00- 120.00	100.00
3.214	3.214 (0.590)	153	4723			33.45- 93.45	62.61
3.214	3.214 (0.590)	101	9094			74.36- 134.36	120.55
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.595)	98	1907	0.50000	0.5000	80.00- 120.00	100.00
3.235	3.235 (0.594)	96	2975			133.60- 193.60	156.00
3.242	3.242 (0.595)	61	5399			302.57- 362.57	283.11
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.717)	49	4081	0.50000	0.5000	80.00- 120.00	100.00(a)
3.901	3.901 (0.716)	84	2819			25.63- 85.63	69.08
3.901	3.901 (0.716)	51	2010			0.46- 60.46	49.25
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.757)	73	10794	0.50000	0.5000	80.00- 120.00	100.00
4.066	4.066 (0.746)	57	14888			0.00- 59.13	137.93
4.116	4.116 (0.755)	41	3719			0.00- 58.91	34.45
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.152	4.152 (0.762)	98	1555	0.50000	0.5000	80.00- 120.00	100.00
4.145	4.145 (0.761)	61	5011			242.97- 302.97	322.25
4.145	4.145 (0.761)	96	3587			127.33- 187.33	230.68
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.801)	57	6973	0.50000	0.5000	80.00- 120.00	100.00
4.374	4.374 (0.803)	43	5017			34.30- 94.30	71.95
4.360	4.360 (0.800)	86	427			0.00- 42.17	6.12
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.851)	63	6097	0.50000	0.5000	80.00- 120.00	100.00
4.639	4.639 (0.851)	65	2055			0.09- 60.09	33.71
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.958)	98	2525	0.50000	0.5000	80.00- 120.00	100.00
5.219	5.219 (0.958)	96	3516			125.21- 185.21	139.25
5.219	5.219 (0.958)	61	4912			211.41- 271.41	194.53

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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
  5.448   5.448 (1.000)    42      4555 0.50000   0.5000  80.00- 120.00   100.00
  5.448   5.448 (1.000)    71      1662                    2.09-  62.09    36.49
  5.448   5.448 (1.000)    72      1060                    3.61-  63.61    23.27
-------------------------------------------------------------------------------
*  98 Bromochloromethane                            CAS #: 74-97-5
  5.448   5.448 (1.000)   130    166334 25.0000           80.00- 120.00   100.00
  5.448   5.448 (1.000)   128    131614                   49.06- 109.06    79.13
  5.448   5.448 (1.000)    49    243295                  124.20- 184.20   146.27
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.513   5.513 (1.012)    83      6751 0.50000   0.5000  80.00- 120.00   100.00
  5.513   5.513 (1.012)    85      3918                   35.60-  95.60    58.04
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.620   5.620 (1.032)    84      6416 0.50000   0.5000  80.00- 120.00   100.00
  5.628   5.628 (1.033)    56     13022                  115.43- 175.43   202.96
  5.628   5.628 (1.033)    41      7643                   53.65- 113.65   119.12
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                         CAS #: 71-55-6
  5.642   5.642 (1.035)    97      8705 0.50000   0.5000  80.00- 120.00   100.00
  5.642   5.642 (1.035)    99      5430                   33.21-  93.21    62.38
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                          CAS #: 56-23-5
  5.756   5.756 (1.057)   119      8479 0.50000   0.5000  80.00- 120.00   100.00
  5.756   5.756 (1.057)   117      8078                   76.21- 136.21    95.27
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.964   5.964 (1.095)    57     23515 0.50000   0.5000  80.00- 120.00   100.00
  5.957   5.957 (1.093)    56      7609                    1.10-  61.10    32.36
  5.964   5.964 (1.095)    41      7776                    0.00-  57.08    33.07
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.971   5.971 (0.941)    78      9730 0.50000   0.5000  80.00- 120.00   100.00
  5.971   5.971 (0.941)    77      2778                    0.00-  53.91    28.55
-------------------------------------------------------------------------------
$ 117 1,2-Dichloroethane-d4                         CAS #: 17060-07-0
  5.986   5.986 (1.099)    65    233603 25.0000   25.000  80.00- 120.00   100.00
  5.986   5.986 (1.099)    67    115991                   26.68-  86.68    49.65
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                            CAS #: 107-06-2
  6.057   6.057 (0.955)    62      4640 0.50000   0.5000  80.00- 120.00   100.00
  6.050   6.050 (0.954)    64      1812                    0.29-  60.29    39.05
-------------------------------------------------------------------------------
  121 Heptane                                       CAS #: 142-82-5
  6.129   6.129 (0.966)    71      6260 0.50000   0.5000  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
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  121 Heptane (continued)
  6.129   6.129 (0.966)    43     12694                  172.43- 232.43   202.78
  6.129   6.129 (0.966)    57      7267                   85.51- 145.51   116.09
-------------------------------------------------------------------------------
* 123 1,4-Difluorobenzene                          CAS #: 540-36-3
  6.344   6.344 (1.000)   114    657188 25.0000           80.00- 120.00   100.00
  6.344   6.344 (1.000)    88     94524                    0.00-  44.57    14.38
-------------------------------------------------------------------------------
  125 Trichloroethene                               CAS #: 79-01-6
  6.537   6.537 (1.030)    95      4690 0.50000   0.5000  80.00- 120.00   100.00
  6.537   6.537 (1.030)   130      4532                   79.80- 139.80    96.63
  6.537   6.537 (1.030)    97      3136                   33.64-  93.64    66.87
-------------------------------------------------------------------------------
  127 Methylcyclohexane                             CAS #: 108-87-2
  6.645   6.645 (1.047)    83      8085 0.50000   0.5000  80.00- 120.00   100.00(a)
  6.645   6.645 (1.047)    98      3658                   16.94-  76.94    45.24
  6.645   6.645 (1.047)    55      7126                   65.75- 125.75    88.14
-------------------------------------------------------------------------------
  132 1,2-Dichloropropane                           CAS #: 78-87-5
  6.766   6.766 (1.067)    63      4535 0.50000   0.5000  80.00- 120.00   100.00
  6.774   6.774 (1.068)    62      3046                   39.62-  99.62    67.17
  6.774   6.774 (1.068)    41      3237                   30.53-  90.53    71.38
-------------------------------------------------------------------------------
  138 Bromodichloromethane                          CAS #: 75-27-4
  6.996   6.996 (1.103)    83      8105 0.50000   0.5000  80.00- 120.00   100.00
  6.996   6.996 (1.103)    85      4682                   34.30-  94.30    57.77
-------------------------------------------------------------------------------
  144 cis-1,3-Dichloropropene                       CAS #: 10061-01-5
  7.375   7.375 (1.163)    75      5968 0.50000   0.5000  80.00- 120.00   100.00
  7.368   7.368 (1.161)    77      2376                    2.71-  62.71    39.81
  7.375   7.375 (1.163)    39      4144                   35.07-  95.07    69.44
-------------------------------------------------------------------------------
  145 4-Methyl-2-pentanone                          CAS #: 108-10-1
  7.483   7.483 (1.180)    58      4152 0.50000   0.5000  80.00- 120.00   100.00
  7.483   7.483 (1.180)    43      9798                  230.95- 290.95   235.98
  7.483   7.483 (1.180)    85      1717                    7.98-  67.98    41.35
-------------------------------------------------------------------------------
$ 146 Toluene-d8                                    CAS #: 2037-26-5
  7.554   7.554 (1.191)    98    644309 25.0000   25.000  80.00- 120.00   100.00
  7.554   7.554 (1.191)    70     70476                    0.00-  40.62    10.94
  7.554   7.554 (1.191)   100    426912                   36.74-  96.74    66.26
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.612   7.612 (1.200)    91     13889 0.50000   0.5000  80.00- 120.00   100.00
  7.612   7.612 (1.200)    92      7590                   27.38-  87.38    54.65
-------------------------------------------------------------------------------
```

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

  150 trans-1,3-Dichloropropene                     CAS #: 10061-02-6
  7.848   7.848 (0.893)    75      5957 0.50000   0.5000  80.00- 120.00   100.00
  7.841   7.841 (0.892)    77      6816                    2.10-  62.10   114.42
  7.841   7.841 (0.892)    39      4091                   30.98-  90.98    68.68
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                         CAS #: 79-00-5
  8.006   8.006 (0.911)    97      4553 0.50000   0.5000  80.00- 120.00   100.00
  7.999   7.999 (0.910)    99      2898                   31.34-  91.34    63.65
  7.999   7.999 (0.910)    83      4860                   57.20- 117.20   106.74
-------------------------------------------------------------------------------
  156 Tetrachloroethene                             CAS #: 127-18-4
  8.049   8.049 (0.916)   166      8039 0.50000   0.5000  80.00- 120.00   100.00
  8.049   8.049 (0.916)   129      4999                   35.33-  95.33    62.18
  8.049   8.049 (0.916)   131      4845                   35.36-  95.36    60.27
-------------------------------------------------------------------------------
  158 2-Hexanone                                    CAS #: 591-78-6
  8.170   8.170 (0.930)    58      5235 0.50000   0.5000  80.00- 120.00   100.00(a)
  8.170   8.170 (0.930)    43      9664                  156.39- 216.39   184.60
  8.178   8.178 (0.931)   100       824                    0.00-  48.05    15.74
-------------------------------------------------------------------------------
  160 Dibromochloromethane                          CAS #: 124-48-1
  8.314   8.314 (0.946)   129      9009 0.50000   0.5000  80.00- 120.00   100.00
  8.314   8.314 (0.946)   127      7480                   48.12- 108.12    83.03
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                       CAS #: 106-93-4
  8.428   8.428 (0.959)   107      7417 0.50000   0.5000  80.00- 120.00   100.00
  8.428   8.428 (0.959)   109      6657                   63.87- 123.87    89.75
-------------------------------------------------------------------------------
* 163 Chlorobenzene-d5                              CAS #: 3114-55-4
  8.786   8.786 (1.000)   117    619516 25.0000           80.00- 120.00   100.00
  8.786   8.786 (1.000)    82    317931                   20.36-  80.36    51.32
-------------------------------------------------------------------------------
  165 Chlorobenzene                                 CAS #: 108-90-7
  8.808   8.808 (1.002)   112     11148 0.50000   0.5000  80.00- 120.00   100.00
  8.808   8.808 (1.002)   114      3992                    2.38-  62.38    35.81
  8.801   8.801 (1.002)    77     12643                   24.59-  84.59   113.41
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                 CAS #: 100-41-4
  8.865   8.865 (1.009)   106      6555 0.50000   0.5000  80.00- 120.00   100.00
  8.858   8.858 (1.008)    91     18817                  276.53- 336.53   287.06
-------------------------------------------------------------------------------
  169 m,p-Xylene                                    CAS #: 108-38-3
  8.958   8.958 (1.020)   106      7534 0.50000   0.5000  80.00- 120.00   100.00
  8.958   8.958 (1.020)    91     15295                  166.59- 226.59   203.01
-------------------------------------------------------------------------------
  171 o-Xylene                                      CAS #: 95-47-6
  9.302   9.302 (1.059)   106      7414 0.50000   0.5000  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
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  171 o-Xylene (continued)
  9.302   9.302 (1.059)    91     16058                  176.08- 236.08   216.59
--------------------------------------------------------------------------------
  172 Styrene                                      CAS #: 100-42-5
  9.317   9.317 (1.060)   104      9407 0.50000   0.5000  80.00- 120.00   100.00
  9.317   9.317 (1.060)    78      4896                   17.58-  77.58    52.05
--------------------------------------------------------------------------------
  174 Bromoform                                    CAS #: 75-25-2
  9.510   9.510 (1.082)   173     11401 0.50000   0.5000  80.00- 120.00   100.00
  9.510   9.510 (1.082)   171      5796                   21.36-  81.36    50.84
--------------------------------------------------------------------------------
  175 Cumene                                       CAS #: 98-82-8
  9.589   9.589 (1.091)   105     24248 0.50000   0.5000  80.00- 120.00   100.00
  9.589   9.589 (1.091)   120      6686                    0.00-  57.79    27.57
  9.589   9.589 (1.091)    51      3464                    0.00-  41.33    14.29
--------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                         CAS #: 460-00-4
  9.768   9.768 (1.112)   174    489448 25.0000   25.000  80.00- 120.00   100.00
  9.768   9.768 (1.112)    95    486663                   65.95- 125.95    99.43
  9.768   9.768 (1.112)   176    479463                   65.80- 125.80    97.96
--------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.897   9.897 (1.126)    83     12276 0.50000   0.5000  80.00- 120.00   100.00
  9.897   9.897 (1.126)    85      7295                   34.22-  94.22    59.42
--------------------------------------------------------------------------------
  182 Propylbenzene                                CAS #: 103-65-1
  9.933   9.933 (1.130)    91     27885 0.50000   0.5000  80.00- 120.00   100.00
  9.940   9.940 (1.131)   120      7770                    0.00-  54.34    27.86
  9.933   9.933 (1.130)   105      1732                    0.00-  33.54     6.21
--------------------------------------------------------------------------------
  188 4-Ethyltoluene                               CAS #: 622-96-8
 10.033  10.033 (1.142)   120      6790 0.50000   0.5000  80.00- 120.00   100.00
 10.033  10.033 (1.142)   105     22869                  279.66- 339.66   336.80
--------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
 10.083  10.083 (1.148)   120      9172 0.50000   0.5000  80.00- 120.00   100.00
 10.083  10.083 (1.148)   105     17953                  169.72- 229.72   195.74
--------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
 10.405  10.405 (1.184)   120      8399 0.50000   0.5000  80.00- 120.00   100.00
 10.405  10.405 (1.184)   105     18045                  185.64- 245.64   214.85
--------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                          CAS #: 541-73-1
 10.692  10.692 (1.217)   146     14128 0.50000   0.5000  80.00- 120.00   100.00
 10.692  10.692 (1.217)   148      9692                   34.23-  94.23    68.60
 10.692  10.692 (1.217)   111      4826                    7.40-  67.40    34.16
--------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.771	10.771 (1.226)	146	15649	0.50000	0.5000	80.00- 120.00	100.00
10.771	10.771 (1.226)	148	8565			33.60- 93.60	54.73
10.771	10.771 (1.226)	111	5143			4.87- 64.87	32.86
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.885	10.885 (1.239)	91	17725	0.50000	0.5000	80.00- 120.00	100.00
10.885	10.885 (1.239)	126	4044			0.00- 53.22	22.82
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.100	11.100 (1.263)	146	12445	0.50000	0.5000	80.00- 120.00	100.00
11.100	11.100 (1.263)	148	8892			33.66- 93.66	71.45
11.100	11.100 (1.263)	111	5751			7.92- 67.92	46.21

QC Flag Legend

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

Report Date: 02-Feb-2016 12:35

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020102.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: /chem/msdp.i/01feb16.b/p16q0201a.m
Misc Info: 0.5ppbv(5.0ppbv)

Calibration Date: 01-FEB-2016
Calibration Time: 16:31
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

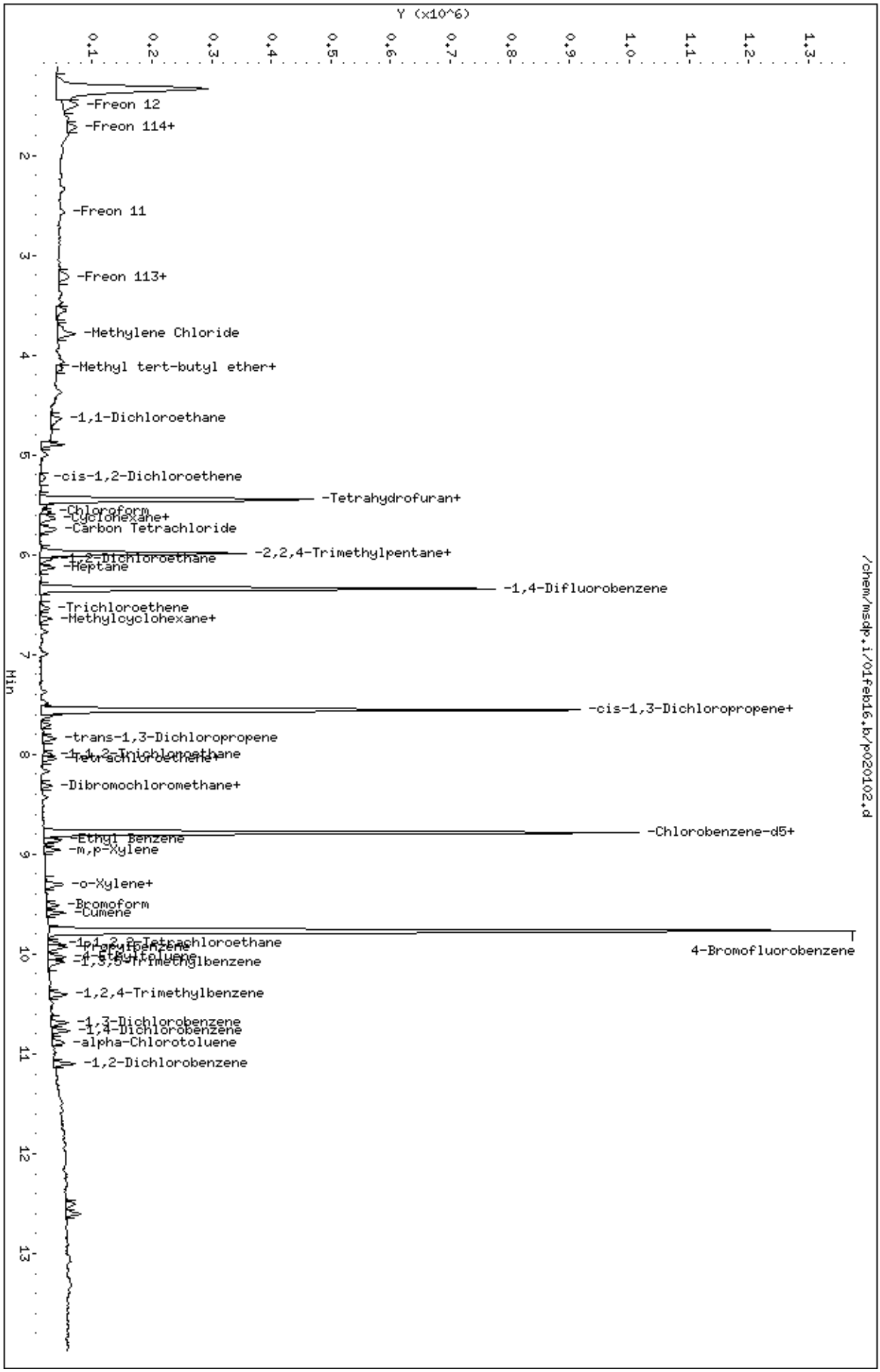
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	163500	98100	228900	166334	1.73
123 1,4-Difluorobenze	658886	395332	922440	657188	-0.26
163 Chlorobenzene-d5	634233	380540	887926	619516	-2.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.46	5.13	5.79	5.45	-0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.79	8.46	9.12	8.79	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/01feb16.b/p020102.d
Date : 01-FEB-2016 14:10
Client ID: Level 2
Sample Info: 20ml #2759-187
Column phase: RTX-624

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



Page 1

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/01feb16.b/p020103.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 01-FEB-2016 15:17
Operator : kl Inst ID: msdp.i
Smp Info : 80ml #2759-187
Misc Info : 2.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 12:36 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 15:17 Cal File: p020103.d
Als bottle: 3 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

Name	Value	Description
DF	1.00000	Dilution Factor

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	163928	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	122749			49.06- 109.06	74.88
5.456	5.456 (1.000)	49	244045			124.20- 184.20	148.87
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	665289	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	98911			0.00- 44.57	14.87
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.786	8.786 (1.000)	117	643945	25.0000		80.00- 120.00	100.00
8.786	8.786 (1.000)	82	327282			20.36- 80.36	50.82
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	234483	25.0000	25.229	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	116666			26.68- 86.68	49.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.562 (1.192)	98	664971	25.0000	25.241	80.00- 120.00	100.00
7.554	7.554 (1.191)	70	71933			0.00- 40.62	10.82
7.562	7.562 (1.192)	100	439047			36.74- 96.74	66.02
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	508586	25.0000	24.996	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	498764			65.95- 125.95	98.07
9.761	9.761 (1.111)	176	491484			65.80- 125.80	96.64
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	16028	2.00000	2.000	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	9147			34.60- 94.60	57.07
1.479	1.479 (0.271)	39	12295			43.23- 103.23	76.71
11 Freon 12					CAS #: 75-71-8		
1.520	1.520 (0.279)	85	38847	2.00000	2.133	80.00- 120.00	100.00
1.520	1.520 (0.279)	87	12555			1.76- 61.76	32.32
15 Freon 114					CAS #: 76-14-2		
1.646	1.646 (0.302)	135	29926	2.00000	2.161	80.00- 120.00	100.00
1.646	1.646 (0.302)	137	9297			2.23- 62.23	31.07
17 Chloromethane					CAS #: 74-87-3		
1.730	1.730 (0.317)	50	7161	2.00000	2.000	80.00- 120.00	100.00(a)
1.716	1.716 (0.315)	52	2984			0.00- 59.98	41.67
23 Butane					CAS #: 106-97-8		
1.786	1.786 (0.327)	58	4858	2.00000	2.000	80.00- 120.00	100.00
1.800	1.800 (0.330)	43	39382			783.10- 843.10	810.66
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	15990	2.00000	1.987	80.00- 120.00	100.00
1.828	1.828 (0.335)	64	6127			5.16- 65.16	38.32
26 1,3-Butadiene					CAS #: 106-99-0		
1.856	1.856 (0.340)	54	15060	2.00000	2.068	80.00- 120.00	100.00
1.856	1.856 (0.340)	39	14475			81.92- 141.92	96.12
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	7550	2.00000	1.958	80.00- 120.00	100.00(a)
2.204	2.204 (0.404)	96	7671			65.10- 125.10	101.60
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.425)	64	8032	2.00000	2.000	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	2223			0.00- 59.99	27.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.325	2.325 (0.426)	49	2637			5.85- 65.85	32.83
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	22247	2.00000	2.000	80.00- 120.00	100.00
2.340	2.340 (0.429)	57	13561			36.22- 96.22	60.96
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	40536	2.00000	2.147	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	25595			34.50- 94.50	63.14
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	5701	2.00000	2.000	80.00- 120.00	100.00
2.877	2.877 (0.527)	43	631			0.00- 50.77	11.07
2.891	2.891 (0.530)	46	2304			8.68- 68.68	40.41
49 Freon 113					CAS #: 76-13-1		
3.214	3.214 (0.589)	151	32803	2.00000	2.098	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	19456			33.45- 93.45	59.31
3.221	3.221 (0.590)	101	33799			74.36- 134.36	103.04
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	9678	2.00000	2.251	80.00- 120.00	100.00
3.242	3.242 (0.594)	96	13751			133.60- 193.60	142.09
3.242	3.242 (0.594)	61	29462			302.57- 362.57	304.42
52 Acetone					CAS #: 67-64-1		
3.385	3.385 (0.621)	58	11642	2.00000	2.000	80.00- 120.00	100.00(a)
3.385	3.385 (0.621)	43	43494			323.05- 383.05	373.60
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	41481	2.00000	2.000	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.557	3.557 (0.652)	45	58305	2.00000	2.000	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	12573			0.00- 49.72	21.56
3.557	3.557 (0.652)	59	2203			0.00- 33.36	3.78
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	7271	2.00000	2.000	80.00- 120.00	100.00
3.729	3.729 (0.684)	41	24984			339.09- 399.09	343.61
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.716)	49	23124	2.00000	2.359	80.00- 120.00	100.00(a)
3.908	3.908 (0.716)	84	13272			25.63- 85.63	57.39
3.908	3.908 (0.716)	51	8047			0.46- 60.46	34.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	39614	2.00000	2.000	80.00- 120.00	100.00
4.016	4.016 (0.736)	41	7789			0.00- 51.45	19.66
4.066	4.066 (0.745)	57	17862			0.00- 41.07	45.09
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.130	4.130 (0.757)	73	41669	2.00000	1.979	80.00- 120.00	100.00
4.123	4.123 (0.756)	57	13655			0.00- 59.13	32.77
4.123	4.123 (0.756)	41	13571			0.00- 58.91	32.57
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.760)	98	9660	2.00000	2.447	80.00- 120.00	100.00
4.145	4.145 (0.760)	61	25828			242.97- 302.97	267.37
4.145	4.145 (0.760)	96	16103			127.33- 187.33	166.70
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.800)	57	30521	2.00000	2.104	80.00- 120.00	100.00
4.374	4.374 (0.802)	43	20435			34.30- 94.30	66.95
4.374	4.374 (0.802)	86	4632			0.00- 42.17	15.18
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.850)	63	30448	2.00000	2.235	80.00- 120.00	100.00
4.639	4.639 (0.850)	65	10334			0.09- 60.09	33.94
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.850)	45	63439	2.00000	2.000	80.00- 120.00	100.00
4.646	4.646 (0.852)	87	13167			0.00- 51.39	20.76
4.639	4.639 (0.850)	59	6425			0.00- 40.68	10.13
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.860)	86	3980	2.00000	2.000	80.00- 120.00	100.00
4.682	4.682 (0.858)	43	51592			1535.12-1595.12	1296.28
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.997	4.997 (0.916)	59	57294	2.00000	2.000	80.00- 120.00	100.00
4.997	4.997 (0.916)	87	18711			4.09- 64.09	32.66
4.997	4.997 (0.916)	41	11490			0.00- 49.07	20.05
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.957)	98	10127	2.00000	2.017	80.00- 120.00	100.00
5.219	5.219 (0.957)	96	15857			125.21- 185.21	156.58
5.219	5.219 (0.957)	61	24232			211.41- 271.41	239.28
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	7911	2.00000	2.000	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	36945			452.15- 512.15	467.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.248	5.248 (0.962)	57	2751			9.54- 69.54	34.77
99 Tetrahydrofuran					CAS #: 109-99-9		
5.448	5.448 (0.999)	42	22938	2.00000	2.244	80.00- 120.00	100.00
5.448	5.448 (0.999)	71	7958			2.09- 62.09	34.69
5.448	5.448 (0.999)	72	6530			3.61- 63.61	28.47
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	32341	2.00000	2.194	80.00- 120.00	100.00
5.513	5.513 (1.010)	85	20905			35.60- 95.60	64.64
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	21087	2.00000	1.819	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	35624			115.43- 175.43	168.94
5.628	5.628 (1.032)	41	19575			53.65- 113.65	92.83
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.034)	97	33934	2.00000	1.989	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	22736			33.21- 93.21	67.00
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.756	5.756 (1.055)	119	34495	2.00000	2.031	80.00- 120.00	100.00
5.756	5.756 (1.055)	117	35464			76.21- 136.21	102.81
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	92097	2.00000	1.993	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	31448			1.10- 61.10	34.15
5.964	5.964 (1.093)	41	25375			0.00- 57.08	27.55
116 Benzene					CAS #: 71-43-2		
5.971	5.971 (0.941)	78	42545	2.00000	2.077	80.00- 120.00	100.00
5.971	5.971 (0.941)	77	10030			0.00- 53.91	23.58
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.043	6.043 (0.953)	87	11563	2.00000	2.000	80.00- 120.00	100.00
6.043	6.043 (0.953)	73	46948			386.56- 446.56	406.02
6.043	6.043 (0.953)	55	13628			96.75- 156.75	117.86
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.057 (0.955)	62	23462	2.00000	2.221	80.00- 120.00	100.00
6.057	6.057 (0.955)	64	7473			0.29- 60.29	31.85
121 Heptane					CAS #: 142-82-5		
6.136	6.136 (0.967)	71	19937	2.00000	1.761	80.00- 120.00	100.00
6.136	6.136 (0.967)	43	37663			172.43- 232.43	188.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.136	6.136 (0.967)	57	22011			85.51- 145.51	110.40
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	20124	2.00000	2.058	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	23514			79.80- 139.80	116.85
6.537	6.537 (1.030)	97	14661			33.64- 93.64	72.85
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	29932	2.00000	1.910	80.00- 120.00	100.00(a)
6.645	6.645 (1.047)	98	15011			16.94- 76.94	50.15
6.645	6.645 (1.047)	55	27239			65.75- 125.75	91.00
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	20272	2.00000	2.099	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	13205			39.62- 99.62	65.14
6.774	6.774 (1.068)	41	13445			30.53- 90.53	66.32
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	10222	2.00000	2.000	80.00- 120.00	100.00
6.860	6.860 (1.081)	58	8648			52.00- 112.00	84.60
6.852	6.852 (1.080)	57	2801			0.00- 56.29	27.40
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	32907	2.00000	2.003	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	23706			34.30- 94.30	72.04
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.375	7.375 (1.163)	75	27699	2.00000	2.136	80.00- 120.00	100.00
7.375	7.375 (1.163)	77	9562			2.71- 62.71	34.52
7.368	7.368 (1.161)	39	18016			35.07- 95.07	65.04
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	16761	2.00000	1.997	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	40333			230.95- 290.95	240.64
7.483	7.483 (1.180)	85	6157			7.98- 67.98	36.73
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	58595	2.00000	2.041	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	33587			27.38- 87.38	57.32
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	25717	2.00000	2.038	80.00- 120.00	100.00
7.848	7.848 (0.893)	77	12453			2.10- 62.10	48.42
7.848	7.848 (0.893)	39	18467			30.98- 90.98	71.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.006	8.006 (0.911)	97	21748	2.00000	2.138	80.00- 120.00	100.00
7.998	7.998 (0.910)	99	12815			31.34- 91.34	58.92
8.006	8.006 (0.911)	83	17662			57.20- 117.20	81.21
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.916)	166	36675	2.00000	2.093	80.00- 120.00	100.00
8.049	8.049 (0.916)	129	21857			35.33- 95.33	59.60
8.049	8.049 (0.916)	131	21399			35.36- 95.36	58.35
158 2-Hexanone					CAS #: 591-78-6		
8.170	8.170 (0.930)	58	19015	2.00000	1.865	80.00- 120.00	100.00(a)
8.170	8.170 (0.930)	43	35678			156.39- 216.39	187.63
8.178	8.178 (0.931)	100	3078			0.00- 48.05	16.19
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.946)	129	42491	2.00000	2.126	80.00- 120.00	100.00
8.314	8.314 (0.946)	127	31811			48.12- 108.12	74.87
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.959)	107	33320	2.00000	2.077	80.00- 120.00	100.00
8.428	8.428 (0.959)	109	33091			63.87- 123.87	99.31
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	48441	2.00000	2.044	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	16223			2.38- 62.38	33.49
8.808	8.808 (1.002)	77	33840			24.59- 84.59	69.86
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.008)	106	25437	2.00000	1.931	80.00- 120.00	100.00
8.858	8.858 (1.008)	91	78468			276.53- 336.53	308.48
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.958 (1.020)	106	30787	2.00000	1.983	80.00- 120.00	100.00
8.958	8.958 (1.020)	91	61718			166.59- 226.59	200.47
171 o-Xylene					CAS #: 95-47-6		
9.302	9.302 (1.059)	106	31094	2.00000	2.009	80.00- 120.00	100.00
9.295	9.295 (1.058)	91	61426			176.08- 236.08	197.55
172 Styrene					CAS #: 100-42-5		
9.316	9.316 (1.060)	104	38393	2.00000	1.981	80.00- 120.00	100.00
9.316	9.316 (1.060)	78	20084			17.58- 77.58	52.31
174 Bromoform					CAS #: 75-25-2		
9.510	9.510 (1.082)	173	48921	2.00000	2.032	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.510	9.510 (1.082)	171	24650			21.36- 81.36	50.39
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.090)	105	94862	2.00000	1.939	80.00- 120.00	100.00
9.582	9.582 (1.090)	120	25939			0.00- 57.79	27.34
9.582	9.582 (1.090)	51	11285			0.00- 41.33	11.90
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.882 (1.125)	83	50236	2.00000	1.984	80.00- 120.00	100.00
9.882	9.882 (1.125)	85	31797			34.22- 94.22	63.30
182 Propylbenzene					CAS #: 103-65-1		
9.925	9.925 (1.130)	91	110656	2.00000	1.953	80.00- 120.00	100.00
9.925	9.925 (1.130)	120	27075			0.00- 54.34	24.47
9.925	9.925 (1.130)	105	3377			0.00- 33.54	3.05
188 4-Ethyltoluene					CAS #: 622-96-8		
10.018	10.018 (1.140)	120	32082	2.00000	2.128	80.00- 120.00	100.00
10.018	10.018 (1.140)	105	94299			279.66- 339.66	293.93
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.146)	120	36328	2.00000	1.951	80.00- 120.00	100.00
10.069	10.069 (1.146)	105	74715			169.72- 229.72	205.67
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.183)	120	34284	2.00000	1.982	80.00- 120.00	100.00
10.391	10.391 (1.183)	105	72298			185.64- 245.64	210.88
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.670 (1.214)	146	64053	2.00000	2.086	80.00- 120.00	100.00
10.670	10.670 (1.214)	148	38748			34.23- 94.23	60.49
10.670	10.670 (1.214)	111	23418			7.40- 67.40	36.56
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.223)	146	61039	2.00000	1.936	80.00- 120.00	100.00
10.749	10.749 (1.223)	148	40752			33.60- 93.60	66.76
10.749	10.749 (1.223)	111	23622			4.87- 64.87	38.70
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.864 (1.236)	91	75034	2.00000	2.018	80.00- 120.00	100.00
10.864	10.864 (1.236)	126	16970			0.00- 53.22	22.62
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.261)	146	60829	2.00000	2.161	80.00- 120.00	100.00
11.079	11.079 (1.261)	148	38364			33.66- 93.66	63.07

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

  214 1,2-Dichlorobenzene (continued)
 11.079  11.079 (1.261)   111     23614                     7.92-  67.92    38.82
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.468  12.468 (1.419)   180     46073 2.00000    2.000  80.00- 120.00   100.00
 12.468  12.468 (1.419)   182     43776                   66.61- 126.61    95.01
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.569  12.569 (1.430)   225     44016 2.00000    2.000  80.00- 120.00   100.00
 12.561  12.561 (1.430)   223     29060                   32.66-  92.66    66.02
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.733  12.733 (1.449)   128      7414 0.20000   0.2000  80.00- 120.00   100.00(a)
 12.733  12.733 (1.449)   127      1049                     0.00-  42.82    14.15
-------------------------------------------------------------------------------
```

QC Flag Legend

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

Report Date: 02-Feb-2016 12:36

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020103.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: /chem/msdp.i/01feb16.b/p16q0201a.m
Misc Info: 2.0ppbv(5.0ppbv)

Calibration Date: 01-FEB-2016
Calibration Time: 16:31
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

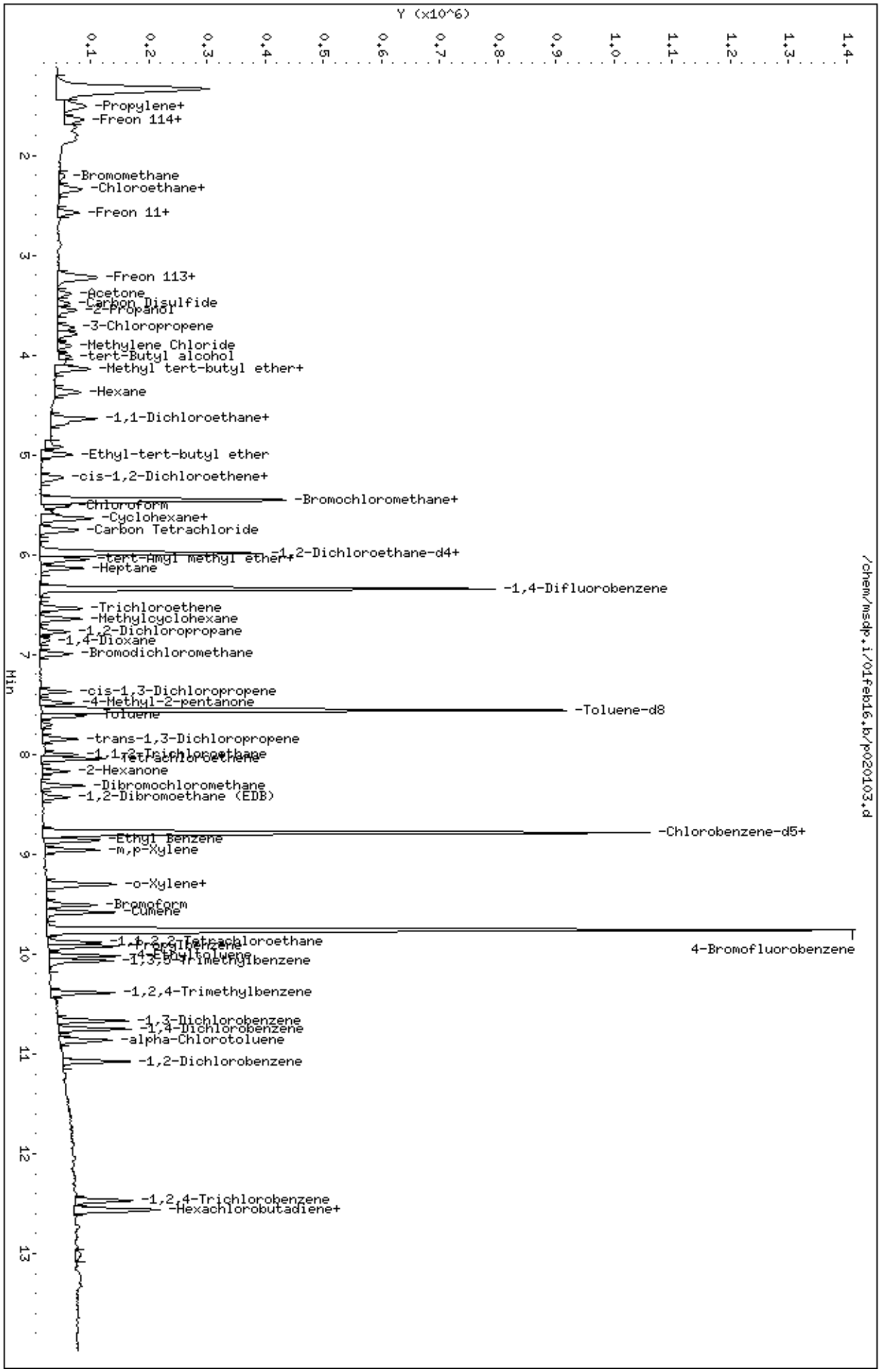
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	163500	98100	228900	163928	0.26
123 1,4-Difluorobenze	658886	395332	922440	665289	0.97
163 Chlorobenzene-d5	634233	380540	887926	643945	1.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.46	5.13	5.79	5.46	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.79	8.46	9.12	8.79	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/01feb16.b/p020103.d
Date : 01-FEB-2016 15:17
Client ID: Level 3
Sample Info: 80ml #2759-187
Column phase: RTX-624

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



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/01feb16.b/p020104.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 01-FEB-2016 15:43
Operator : kl Inst ID: msdp.i
Smp Info : 200ml #2759-187
Misc Info : 5.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 12:36 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 15:43 Cal File: p020104.d
Als bottle: 3 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

Name	Value	Description
DF	1.00000	Dilution Factor

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	157332	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	125040			49.06- 109.06	79.48
5.456	5.456 (1.000)	49	243160			124.20- 184.20	154.55
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	658578	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	94655			0.00- 44.57	14.37
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.786	8.786 (1.000)	117	653286	25.0000		80.00- 120.00	100.00
8.786	8.786 (1.000)	82	330309			20.36- 80.36	50.56
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.993	5.993 (1.098)	65	231186	25.0000	25.604	80.00- 120.00	100.00
5.993	5.993 (1.098)	67	115210			26.68- 86.68	49.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.562 (1.192)	98	657774	25.0000	25.148	80.00- 120.00	100.00
7.562	7.562 (1.192)	70	71258			0.00- 40.62	10.83
7.562	7.562 (1.192)	100	430611			36.74- 96.74	65.46
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	520486	25.0000	25.143	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	512352			65.95- 125.95	98.44
9.761	9.761 (1.111)	176	500458			65.80- 125.80	96.15
9 Propylene					CAS #: 115-07-1		
1.478	1.478 (0.271)	41	36729	5.00000	4.885	80.00- 120.00	100.00
1.478	1.478 (0.271)	42	24520			34.60- 94.60	66.76
1.478	1.478 (0.271)	39	25927			43.23- 103.23	70.59
11 Freon 12					CAS #: 75-71-8		
1.520	1.520 (0.279)	85	100997	5.00000	5.493	80.00- 120.00	100.00
1.520	1.520 (0.279)	87	30672			1.76- 61.76	30.37
15 Freon 114					CAS #: 76-14-2		
1.632	1.632 (0.299)	135	78775	5.00000	5.582	80.00- 120.00	100.00
1.632	1.632 (0.299)	137	25324			2.23- 62.23	32.15
17 Chloromethane					CAS #: 74-87-3		
1.716	1.716 (0.315)	50	21438	5.00000	5.551	80.00- 120.00	100.00
1.716	1.716 (0.315)	52	8225			0.00- 59.98	38.37
23 Butane					CAS #: 106-97-8		
1.800	1.800 (0.330)	58	9902	5.00000	4.593	80.00- 120.00	100.00
1.800	1.800 (0.330)	43	76021			783.10- 843.10	767.73
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	42598	5.00000	5.332	80.00- 120.00	100.00
1.828	1.828 (0.335)	64	15065			5.16- 65.16	35.37
26 1,3-Butadiene					CAS #: 106-99-0		
1.856	1.856 (0.340)	54	32711	5.00000	4.783	80.00- 120.00	100.00
1.856	1.856 (0.340)	39	43749			81.92- 141.92	133.74
29 Bromomethane					CAS #: 74-83-9		
2.211	2.211 (0.405)	94	21536	5.00000	5.518	80.00- 120.00	100.00
2.211	2.211 (0.405)	96	20922			65.10- 125.10	97.15
30 Chloroethane					CAS #: 75-00-3		
2.325	2.325 (0.426)	64	20367	5.00000	5.138	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	5531			0.00- 59.99	27.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.325	2.325 (0.426)	49	7426			5.85- 65.85	36.46
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	53867	5.00000	5.023	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	35301			36.22- 96.22	65.53
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	103782	5.00000	5.462	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	65669			34.50- 94.50	63.28
42 Ethanol					CAS #: 64-17-5		
2.891	2.891 (0.530)	45	14054	5.00000	5.068	80.00- 120.00	100.00
2.891	2.891 (0.530)	43	3557			0.00- 50.77	25.31
2.898	2.898 (0.531)	46	6776			8.68- 68.68	48.21
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.590)	151	79840	5.00000	5.209	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	49090			33.45- 93.45	61.49
3.221	3.221 (0.590)	101	84630			74.36- 134.36	106.00
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.596)	98	22787	5.00000	5.337	80.00- 120.00	100.00
3.249	3.249 (0.596)	96	35609			133.60- 193.60	156.27
3.249	3.249 (0.596)	61	75960			302.57- 362.57	333.35
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.622)	58	25561	5.00000	4.778	80.00- 120.00	100.00(a)
3.393	3.393 (0.622)	43	86348			323.05- 383.05	337.81
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.639)	76	99930	5.00000	5.010	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.557	3.557 (0.652)	45	95173	5.00000	4.049	80.00- 120.00	100.00
3.557	3.557 (0.652)	43	20035			0.00- 49.72	21.05
3.557	3.557 (0.652)	59	3714			0.00- 33.36	3.90
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	16956	5.00000	4.929	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	62706			339.09- 399.09	369.82
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.716)	49	56353	5.00000	5.619	80.00- 120.00	100.00
3.908	3.908 (0.716)	84	31928			25.63- 85.63	56.66
3.908	3.908 (0.716)	51	18064			0.46- 60.46	32.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	99780	5.00000	5.121	80.00- 120.00	100.00
4.016	4.016 (0.736)	41	24246			0.00- 51.45	24.30
4.016	4.016 (0.736)	57	10205			0.00- 41.07	10.23
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.130	4.130 (0.757)	73	102126	5.00000	5.036	80.00- 120.00	100.00
4.123	4.123 (0.756)	57	34297			0.00- 59.13	33.58
4.123	4.123 (0.756)	41	31436			0.00- 58.91	30.78
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.152	4.152 (0.761)	98	23353	5.00000	5.720	80.00- 120.00	100.00
4.152	4.152 (0.761)	61	65782			242.97- 302.97	281.69
4.152	4.152 (0.761)	96	36314			127.33- 187.33	155.50
78 Hexane					CAS #: 110-54-3		
4.374	4.374 (0.802)	57	73348	5.00000	5.177	80.00- 120.00	100.00
4.374	4.374 (0.802)	43	49070			34.30- 94.30	66.90
4.374	4.374 (0.802)	86	8932			0.00- 42.17	12.18
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.646	4.646 (0.852)	63	77819	5.00000	5.597	80.00- 120.00	100.00
4.646	4.646 (0.852)	65	22312			0.09- 60.09	28.67
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.850)	45	154218	5.00000	5.033	80.00- 120.00	100.00
4.646	4.646 (0.852)	87	33045			0.00- 51.39	21.43
4.639	4.639 (0.850)	59	16021			0.00- 40.68	10.39
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.860)	86	9061	5.00000	4.869	80.00- 120.00	100.00
4.689	4.689 (0.860)	43	135405			1535.12-1595.12	1494.37
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.997	4.997 (0.916)	59	143251	5.00000	5.103	80.00- 120.00	100.00
4.997	4.997 (0.916)	87	47478			4.09- 64.09	33.14
4.997	4.997 (0.916)	41	29502			0.00- 49.07	20.59
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.226	5.226 (0.958)	98	25591	5.00000	5.203	80.00- 120.00	100.00
5.226	5.226 (0.958)	96	37678			125.21- 185.21	147.23
5.219	5.219 (0.957)	61	61127			211.41- 271.41	238.86
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	19599	5.00000	5.080	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	94703			452.15- 512.15	483.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.248	5.248 (0.962)	57	7879			9.54- 69.54	40.20
99 Tetrahydrofuran					CAS #: 109-99-9		
5.448	5.448 (0.999)	42	47965	5.00000	4.925	80.00- 120.00	100.00
5.448	5.448 (0.999)	71	16887			2.09- 62.09	35.21
5.448	5.448 (0.999)	72	16132			3.61- 63.61	33.63
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	81308	5.00000	5.475	80.00- 120.00	100.00
5.520	5.520 (1.012)	85	50694			35.60- 95.60	62.35
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	50542	5.00000	4.685	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	81180			115.43- 175.43	160.62
5.628	5.628 (1.032)	41	50396			53.65- 113.65	99.71
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.034)	97	87118	5.00000	5.209	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	55506			33.21- 93.21	63.71
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.756	5.756 (1.055)	119	89079	5.00000	5.301	80.00- 120.00	100.00
5.756	5.756 (1.055)	117	90627			76.21- 136.21	101.74
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	232642	5.00000	5.162	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	72965			1.10- 61.10	31.36
5.964	5.964 (1.093)	41	63022			0.00- 57.08	27.09
116 Benzene					CAS #: 71-43-2		
5.971	5.971 (0.941)	78	109988	5.00000	5.275	80.00- 120.00	100.00
5.979	5.979 (0.942)	77	24586			0.00- 53.91	22.35
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.050	6.050 (0.954)	87	28197	5.00000	4.963	80.00- 120.00	100.00
6.050	6.050 (0.954)	73	116078			386.56- 446.56	411.67
6.043	6.043 (0.953)	55	35565			96.75- 156.75	126.13
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.057 (0.955)	62	62185	5.00000	5.594	80.00- 120.00	100.00
6.057	6.057 (0.955)	64	18794			0.29- 60.29	30.22
121 Heptane					CAS #: 142-82-5		
6.136	6.136 (0.967)	71	41971	5.00000	4.087	80.00- 120.00	100.00
6.136	6.136 (0.967)	43	82728			172.43- 232.43	197.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.136	6.136 (0.967)	57	48116			85.51- 145.51	114.64
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	53274	5.00000	5.325	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	61018			79.80- 139.80	114.54
6.537	6.537 (1.030)	97	34957			33.64- 93.64	65.62
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	72417	5.00000	4.774	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	32435			16.94- 76.94	44.79
6.645	6.645 (1.047)	55	70804			65.75- 125.75	97.77
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	49813	5.00000	5.138	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	34169			39.62- 99.62	68.59
6.774	6.774 (1.068)	41	32156			30.53- 90.53	64.55
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	24432	5.00000	4.913	80.00- 120.00	100.00
6.860	6.860 (1.081)	58	21271			52.00- 112.00	87.06
6.860	6.860 (1.081)	57	7939			0.00- 56.29	32.49
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	85965	5.00000	5.186	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	56295			34.30- 94.30	65.49
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.375	7.375 (1.163)	75	73920	5.00000	5.482	80.00- 120.00	100.00
7.375	7.375 (1.163)	77	26177			2.71- 62.71	35.41
7.375	7.375 (1.163)	39	45037			35.07- 95.07	60.93
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	40120	5.00000	4.884	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	101261			230.95- 290.95	252.40
7.490	7.490 (1.181)	85	16145			7.98- 67.98	40.24
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	154008	5.00000	5.272	80.00- 120.00	100.00
7.619	7.619 (1.201)	92	86817			27.38- 87.38	56.37
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	66137	5.00000	5.109	80.00- 120.00	100.00
7.848	7.848 (0.893)	77	24950			2.10- 62.10	37.72
7.848	7.848 (0.893)	39	42703			30.98- 90.98	64.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.006	8.006 (0.911)	97	52603	5.00000	5.065	80.00- 120.00	100.00
8.006	8.006 (0.911)	99	33690			31.34- 91.34	64.05
8.006	8.006 (0.911)	83	47434			57.20- 117.20	90.17
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.916)	166	90861	5.00000	5.073	80.00- 120.00	100.00
8.049	8.049 (0.916)	129	59625			35.33- 95.33	65.62
8.049	8.049 (0.916)	131	59956			35.36- 95.36	65.99
158 2-Hexanone					CAS #: 591-78-6		
8.170	8.170 (0.930)	58	51535	5.00000	4.988	80.00- 120.00	100.00
8.170	8.170 (0.930)	43	93609			156.39- 216.39	181.64
8.170	8.170 (0.930)	100	8514			0.00- 48.05	16.52
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.946)	129	105261	5.00000	5.126	80.00- 120.00	100.00
8.314	8.314 (0.946)	127	81437			48.12- 108.12	77.37
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.959)	107	84704	5.00000	5.135	80.00- 120.00	100.00
8.428	8.428 (0.959)	109	79359			63.87- 123.87	93.69
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	130673	5.00000	5.282	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	42687			2.38- 62.38	32.67
8.808	8.808 (1.002)	77	74270			24.59- 84.59	56.84
167 Ethyl Benzene					CAS #: 100-41-4		
8.865	8.865 (1.009)	106	65252	5.00000	4.921	80.00- 120.00	100.00
8.865	8.865 (1.009)	91	193747			276.53- 336.53	296.92
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.958 (1.020)	106	79674	5.00000	5.038	80.00- 120.00	100.00
8.958	8.958 (1.020)	91	156319			166.59- 226.59	196.20
171 o-Xylene					CAS #: 95-47-6		
9.302	9.302 (1.059)	106	71503	5.00000	4.693	80.00- 120.00	100.00
9.295	9.295 (1.058)	91	153837			176.08- 236.08	215.15
172 Styrene					CAS #: 100-42-5		
9.316	9.316 (1.060)	104	96246	5.00000	4.930	80.00- 120.00	100.00
9.316	9.316 (1.060)	78	50125			17.58- 77.58	52.08
174 Bromoform					CAS #: 75-25-2		
9.510	9.510 (1.082)	173	123773	5.00000	5.044	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.510	9.510 (1.082)	171	64530			21.36- 81.36	52.14
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.090)	105	232092	5.00000	4.780	80.00- 120.00	100.00
9.582	9.582 (1.090)	120	65225			0.00- 57.79	28.10
9.582	9.582 (1.090)	51	26082			0.00- 41.33	11.24
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.882 (1.125)	83	119880	5.00000	4.773	80.00- 120.00	100.00
9.882	9.882 (1.125)	85	75604			34.22- 94.22	63.07
182 Propylbenzene					CAS #: 103-65-1		
9.925	9.925 (1.130)	91	277468	5.00000	4.884	80.00- 120.00	100.00
9.925	9.925 (1.130)	120	69993			0.00- 54.34	25.23
9.925	9.925 (1.130)	105	10715			0.00- 33.54	3.86
188 4-Ethyltoluene					CAS #: 622-96-8		
10.018	10.018 (1.140)	120	75935	5.00000	4.976	80.00- 120.00	100.00
10.018	10.018 (1.140)	105	235923			279.66- 339.66	310.69
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.146)	120	92074	5.00000	4.916	80.00- 120.00	100.00
10.069	10.069 (1.146)	105	187306			169.72- 229.72	203.43
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.183)	120	85038	5.00000	4.896	80.00- 120.00	100.00
10.391	10.391 (1.183)	105	186359			185.64- 245.64	219.15
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.670 (1.214)	146	152353	5.00000	4.927	80.00- 120.00	100.00
10.670	10.670 (1.214)	148	101473			34.23- 94.23	66.60
10.670	10.670 (1.214)	111	59917			7.40- 67.40	39.33
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.223)	146	156904	5.00000	4.937	80.00- 120.00	100.00
10.749	10.749 (1.223)	148	101013			33.60- 93.60	64.38
10.749	10.749 (1.223)	111	59593			4.87- 64.87	37.98
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.864 (1.236)	91	189685	5.00000	5.019	80.00- 120.00	100.00
10.864	10.864 (1.236)	126	43912			0.00- 53.22	23.15
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.261)	146	152850	5.00000	5.230	80.00- 120.00	100.00
11.079	11.079 (1.261)	148	97480			33.66- 93.66	63.77

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

  214 1,2-Dichlorobenzene (continued)
 11.079  11.079 (1.261)   111     58377                     7.92-  67.92    38.19
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.468  12.468 (1.419)   180    148352 5.00000    5.594  80.00- 120.00   100.00
 12.468  12.468 (1.419)   182    142032                   66.61- 126.61    95.74
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.569  12.569 (1.430)   225    128367 5.00000    5.348  80.00- 120.00   100.00
 12.569  12.569 (1.430)   223     79650                   32.66-  92.66    62.05
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.733  12.733 (1.449)   128     20389 0.50000   0.5202  80.00- 120.00   100.00(a)
 12.733  12.733 (1.449)   127      5276                    0.00-  42.82    25.88
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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: p020104.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: /chem/msdp.i/01feb16.b/p16q0201a.m
Misc Info: 5.0ppbv(5.0ppbv)

Calibration Date: 01-FEB-2016
Calibration Time: 16:31
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	163500	98100	228900	157332	-3.77
123 1,4-Difluorobenze	658886	395332	922440	658578	-0.05
163 Chlorobenzene-d5	634233	380540	887926	653286	3.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.46	5.13	5.79	5.46	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.79	8.46	9.12	8.79	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/01feb16.b/p020104.d

Date : 01-FEB-2016 15:43

Client ID: Level 4

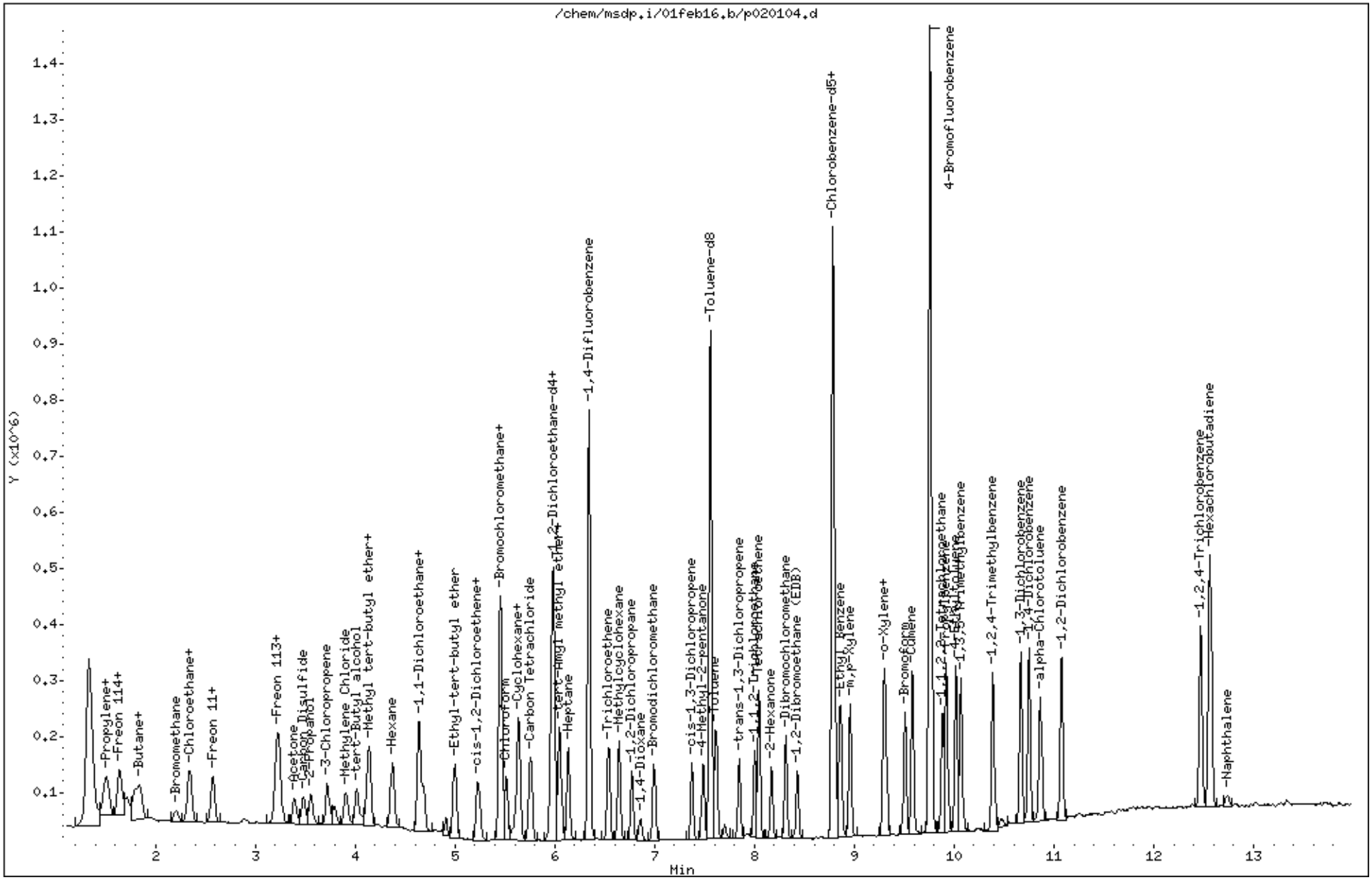
Sample Info: 200ml #2759-187

Column phase: RTX-624

Instrument: msdp.i

Operator: kl

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/01feb16.b/p020105.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 01-FEB-2016 16:07
Operator : kl Inst ID: msdp.i
Smp Info : 20ml #2759-209
Misc Info : 20ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 12:36 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 16:07 Cal File: p020105.d
Als bottle: 13 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

Name	Value	Description
DF	1.00000	Dilution Factor

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	164445	25.0000		80.00- 120.00	100.00
5.448	5.448 (1.000)	128	127440			49.06- 109.06	77.50
5.448	5.448 (1.000)	49	242217			124.20- 184.20	147.29
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	650873	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	94072			0.00- 44.57	14.45
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.786	8.786 (1.000)	117	617150	25.0000		80.00- 120.00	100.00
8.786	8.786 (1.000)	82	315180			20.36- 80.36	51.07
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	233924	25.0000	24.840	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	119253			26.68- 86.68	50.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.562 (1.192)	98	648491	25.0000	25.065	80.00- 120.00	100.00
7.554	7.554 (1.191)	70	69174			0.00- 40.62	10.67
7.562	7.562 (1.192)	100	422321			36.74- 96.74	65.12
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	497353	25.0000	25.323	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	488515			65.95- 125.95	98.22
9.761	9.761 (1.111)	176	474200			65.80- 125.80	95.34
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	117684	20.0000	16.344	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	75723			34.60- 94.60	64.34
1.479	1.479 (0.271)	39	85578			43.23- 103.23	72.72
11 Freon 12					CAS #: 75-71-8		
1.506	1.506 (0.276)	85	306662	20.0000	16.807	80.00- 120.00	100.00
1.506	1.506 (0.276)	87	100695			1.76- 61.76	32.84
15 Freon 114					CAS #: 76-14-2		
1.632	1.632 (0.299)	135	246232	20.0000	17.412	80.00- 120.00	100.00
1.632	1.632 (0.299)	137	79149			2.23- 62.23	32.14
17 Chloromethane					CAS #: 74-87-3		
1.716	1.716 (0.315)	50	145631	20.0000	28.453	80.00- 120.00	100.00
1.716	1.716 (0.315)	52	45722			0.00- 59.98	31.40
23 Butane					CAS #: 106-97-8		
1.786	1.786 (0.327)	58	28927	20.0000	14.578	80.00- 120.00	100.00
1.786	1.786 (0.327)	43	231361			783.10- 843.10	799.81
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	129498	20.0000	16.431	80.00- 120.00	100.00
1.828	1.828 (0.335)	64	39500			5.16- 65.16	30.50
26 1,3-Butadiene					CAS #: 106-99-0		
1.842	1.842 (0.338)	54	117575	20.0000	17.212	80.00- 120.00	100.00
1.842	1.842 (0.338)	39	156734			81.92- 141.92	133.31
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	90116	20.0000	21.529	80.00- 120.00	100.00
2.204	2.204 (0.404)	96	85438			65.10- 125.10	94.81
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.425)	64	56950	20.0000	15.345	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	16603			0.00- 59.99	29.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	20197			5.85- 65.85	35.46
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.429)	43	190552	20.0000	17.894	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	128416			36.22- 96.22	67.39
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	339403	20.0000	17.736	80.00- 120.00	100.00
2.569	2.569 (0.471)	103	212675			34.50- 94.50	62.66
42 Ethanol					CAS #: 64-17-5		
2.877	2.877 (0.527)	45	59171	20.0000	20.273	80.00- 120.00	100.00
2.877	2.877 (0.527)	43	11725			0.00- 50.77	19.82
2.877	2.877 (0.527)	46	22113			8.68- 68.68	37.37
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.590)	151	296096	20.0000	18.840	80.00- 120.00	100.00
3.214	3.214 (0.589)	153	185770			33.45- 93.45	62.74
3.214	3.214 (0.589)	101	302515			74.36- 134.36	102.17
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	71195	20.0000	16.803	80.00- 120.00	100.00
3.242	3.242 (0.594)	96	109819			133.60- 193.60	154.25
3.242	3.242 (0.594)	61	228989			302.57- 362.57	321.64
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	65937	20.0000	13.661	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	221696			323.05- 383.05	336.22
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	312835	20.0000	16.368	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.651)	45	274309	20.0000	13.092	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	54062			0.00- 49.72	19.71
3.550	3.550 (0.651)	59	10624			0.00- 33.36	3.87
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	47138	20.0000	14.810	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	191772			339.09- 399.09	406.83
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.716)	49	168136	20.0000	16.875	80.00- 120.00	100.00
3.908	3.908 (0.716)	84	94651			25.63- 85.63	56.29
3.908	3.908 (0.716)	51	49227			0.46- 60.46	29.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	337929	20.0000	17.593	80.00- 120.00	100.00
4.016	4.016 (0.736)	41	73721			0.00- 51.45	21.82
4.016	4.016 (0.736)	57	38792			0.00- 41.07	11.48
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.756)	73	396828	20.0000	19.025	80.00- 120.00	100.00
4.123	4.123 (0.756)	57	119550			0.00- 59.13	30.13
4.123	4.123 (0.756)	41	112742			0.00- 58.91	28.41
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.760)	98	68444	20.0000	16.875	80.00- 120.00	100.00
4.145	4.145 (0.760)	61	193661			242.97- 302.97	282.95
4.145	4.145 (0.760)	96	110819			127.33- 187.33	161.91
78 Hexane					CAS #: 110-54-3		
4.374	4.374 (0.802)	57	232830	20.0000	16.610	80.00- 120.00	100.00
4.374	4.374 (0.802)	43	148253			34.30- 94.30	63.67
4.374	4.374 (0.802)	86	28476			0.00- 42.17	12.23
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.850)	63	233095	20.0000	16.876	80.00- 120.00	100.00
4.639	4.639 (0.850)	65	67982			0.09- 60.09	29.16
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.850)	45	575983	20.0000	18.609	80.00- 120.00	100.00
4.639	4.639 (0.850)	87	122972			0.00- 51.39	21.35
4.639	4.639 (0.850)	59	62146			0.00- 40.68	10.79
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.860)	86	30569	20.0000	16.924	80.00- 120.00	100.00
4.682	4.682 (0.858)	43	428292			1535.12-1595.12	1401.07
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.997	4.997 (0.916)	59	537739	20.0000	18.853	80.00- 120.00	100.00
4.997	4.997 (0.916)	87	183818			4.09- 64.09	34.18
4.997	4.997 (0.916)	41	105856			0.00- 49.07	19.69
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.957)	98	73058	20.0000	15.320	80.00- 120.00	100.00
5.219	5.219 (0.957)	96	114499			125.21- 185.21	156.72
5.219	5.219 (0.957)	61	184114			211.41- 271.41	252.01
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	57178	20.0000	15.703	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	276506			452.15- 512.15	483.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.248	5.248 (0.962)	57	22866			9.54- 69.54	39.99
99 Tetrahydrofuran					CAS #: 109-99-9		
5.448	5.448 (0.999)	42	150303	20.0000	15.799	80.00- 120.00	100.00
5.448	5.448 (0.999)	71	49937			2.09- 62.09	33.22
5.448	5.448 (0.999)	72	53360			3.61- 63.61	35.50
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	235036	20.0000	16.121	80.00- 120.00	100.00
5.513	5.513 (1.010)	85	152874			35.60- 95.60	65.04
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	188418	20.0000	17.426	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	281054			115.43- 175.43	149.17
5.628	5.628 (1.032)	41	161673			53.65- 113.65	85.81
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.034)	97	314013	20.0000	18.432	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	202735			33.21- 93.21	64.56
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.756	5.756 (1.055)	119	335322	20.0000	19.312	80.00- 120.00	100.00
5.756	5.756 (1.055)	117	346618			76.21- 136.21	103.37
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	837611	20.0000	18.288	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	264733			1.10- 61.10	31.61
5.964	5.964 (1.093)	41	227774			0.00- 57.08	27.19
116 Benzene					CAS #: 71-43-2		
5.971	5.971 (0.941)	78	344784	20.0000	17.443	80.00- 120.00	100.00
5.971	5.971 (0.941)	77	79356			0.00- 53.91	23.02
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.043	6.043 (0.953)	87	102293	20.0000	18.776	80.00- 120.00	100.00
6.043	6.043 (0.953)	73	413308			386.56- 446.56	404.04
6.043	6.043 (0.953)	55	127035			96.75- 156.75	124.19
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.057 (0.955)	62	184505	20.0000	17.495	80.00- 120.00	100.00
6.057	6.057 (0.955)	64	55879			0.29- 60.29	30.29
121 Heptane					CAS #: 142-82-5		
6.136	6.136 (0.967)	71	142839	20.0000	15.200	80.00- 120.00	100.00
6.129	6.129 (0.966)	43	293701			172.43- 232.43	205.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.129	6.129 (0.966)	57	165946			85.51- 145.51	116.18
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	161053	20.0000	17.080	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	183713			79.80- 139.80	114.07
6.537	6.537 (1.030)	97	105862			33.64- 93.64	65.73
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	264343	20.0000	18.172	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	122326			16.94- 76.94	46.28
6.645	6.645 (1.047)	55	250187			65.75- 125.75	94.64
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	165522	20.0000	17.884	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	113112			39.62- 99.62	68.34
6.774	6.774 (1.068)	41	100260			30.53- 90.53	60.57
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	89860	20.0000	18.822	80.00- 120.00	100.00
6.860	6.860 (1.081)	58	77406			52.00- 112.00	86.14
6.860	6.860 (1.081)	57	26616			0.00- 56.29	29.62
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	270391	20.0000	17.260	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	175047			34.30- 94.30	64.74
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.375	7.375 (1.163)	75	232317	20.0000	18.010	80.00- 120.00	100.00
7.375	7.375 (1.163)	77	70699			2.71- 62.71	30.43
7.375	7.375 (1.163)	39	144677			35.07- 95.07	62.28
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	157790	20.0000	19.575	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	410604			230.95- 290.95	260.22
7.483	7.483 (1.180)	85	60810			7.98- 67.98	38.54
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	507320	20.0000	18.122	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	290088			27.38- 87.38	57.18
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	211366	20.0000	17.891	80.00- 120.00	100.00
7.848	7.848 (0.893)	77	67530			2.10- 62.10	31.95
7.848	7.848 (0.893)	39	131415			30.98- 90.98	62.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.006	8.006 (0.911)	97	169873	20.0000	17.917	80.00- 120.00	100.00
8.006	8.006 (0.911)	99	102992			31.34- 91.34	60.63
7.999	7.999 (0.910)	83	146489			57.20- 117.20	86.23
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.916)	166	305952	20.0000	18.527	80.00- 120.00	100.00
8.049	8.049 (0.916)	129	196123			35.33- 95.33	64.10
8.049	8.049 (0.916)	131	195047			35.36- 95.36	63.75
158 2-Hexanone					CAS #: 591-78-6		
8.170	8.170 (0.930)	58	210173	20.0000	21.130	80.00- 120.00	100.00
8.170	8.170 (0.930)	43	393451			156.39- 216.39	187.20
8.170	8.170 (0.930)	100	38301			0.00- 48.05	18.22
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.946)	129	354957	20.0000	18.695	80.00- 120.00	100.00
8.314	8.314 (0.946)	127	278136			48.12- 108.12	78.36
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.959)	107	275205	20.0000	18.193	80.00- 120.00	100.00
8.428	8.428 (0.959)	109	262400			63.87- 123.87	95.35
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	453832	20.0000	19.561	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	143740			2.38- 62.38	31.67
8.808	8.808 (1.002)	77	236738			24.59- 84.59	52.16
167 Ethyl Benzene					CAS #: 100-41-4		
8.865	8.865 (1.009)	106	244301	20.0000	19.625	80.00- 120.00	100.00
8.858	8.858 (1.008)	91	744894			276.53- 336.53	304.91
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.958 (1.020)	106	297346	20.0000	19.928	80.00- 120.00	100.00
8.958	8.958 (1.020)	91	587389			166.59- 226.59	197.54
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.058)	106	287339	20.0000	19.972	80.00- 120.00	100.00
9.295	9.295 (1.058)	91	601060			176.08- 236.08	209.18
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.060)	104	474356	20.0000	24.005	80.00- 120.00	100.00
9.317	9.317 (1.060)	78	221447			17.58- 77.58	46.68
174 Bromoform					CAS #: 75-25-2		
9.510	9.510 (1.082)	173	463450	20.0000	19.994	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.510	9.510 (1.082)	171	233547			21.36- 81.36	50.39
175 Cumene					CAS #: 98-82-8		
9.589	9.589 (1.091)	105	920385	20.0000	20.048	80.00- 120.00	100.00
9.589	9.589 (1.091)	120	256880			0.00- 57.79	27.91
9.582	9.582 (1.090)	51	103694			0.00- 41.33	11.27
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.882 (1.125)	83	458321	20.0000	19.483	80.00- 120.00	100.00
9.882	9.882 (1.125)	85	298108			34.22- 94.22	65.04
182 Propylbenzene					CAS #: 103-65-1		
9.925	9.925 (1.130)	91	1099795	20.0000	20.367	80.00- 120.00	100.00
9.925	9.925 (1.130)	120	271571			0.00- 54.34	24.69
9.925	9.925 (1.130)	105	40666			0.00- 33.54	3.70
188 4-Ethyltoluene					CAS #: 622-96-8		
10.018	10.018 (1.140)	120	307943	20.0000	21.004	80.00- 120.00	100.00
10.018	10.018 (1.140)	105	977081			279.66- 339.66	317.29
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.146)	120	392095	20.0000	21.578	80.00- 120.00	100.00
10.069	10.069 (1.146)	105	781710			169.72- 229.72	199.37
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.183)	120	360257	20.0000	21.430	80.00- 120.00	100.00
10.391	10.391 (1.183)	105	774233			185.64- 245.64	214.91
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.670 (1.214)	146	584892	20.0000	20.018	80.00- 120.00	100.00
10.670	10.670 (1.214)	148	376424			34.23- 94.23	64.36
10.670	10.670 (1.214)	111	219163			7.40- 67.40	37.47
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.223)	146	583753	20.0000	19.579	80.00- 120.00	100.00
10.749	10.749 (1.223)	148	369606			33.60- 93.60	63.32
10.749	10.749 (1.223)	111	211540			4.87- 64.87	36.24
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.864 (1.236)	91	766285	20.0000	21.077	80.00- 120.00	100.00
10.871	10.871 (1.237)	126	175304			0.00- 53.22	22.88
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.261)	146	566202	20.0000	20.379	80.00- 120.00	100.00
11.079	11.079 (1.261)	148	358598			33.66- 93.66	63.33

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

  214 1,2-Dichlorobenzene (continued)
 11.079  11.079 (1.261)   111    216571                     7.92-  67.92    38.25
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.468  12.468 (1.419)   180    260247 20.0000   12.369  80.00- 120.00   100.00
 12.468  12.468 (1.419)   182    242820                   66.61- 126.61    93.30
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.569  12.569 (1.430)   225    215457 20.0000   11.518  80.00- 120.00   100.00
 12.569  12.569 (1.430)   223    137430                   32.66-  92.66    63.79
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.733  12.733 (1.449)   128     49927 2.00000    1.513  80.00- 120.00   100.00
 12.733  12.733 (1.449)   127      8279                    0.00-  42.82    16.58
-------------------------------------------------------------------------------
```

Report Date: 02-Feb-2016 12:36

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020105.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: /chem/msdp.i/01feb16.b/p16q0201a.m
Misc Info: 20ppbv(200ppbv)

Calibration Date: 01-FEB-2016
Calibration Time: 16:31
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	163500	98100	228900	164445	0.58
123 1,4-Difluorobenze	658886	395332	922440	650873	-1.22
163 Chlorobenzene-d5	634233	380540	887926	617150	-2.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.46	5.13	5.79	5.46	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.79	8.46	9.12	8.79	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/01feb16.b/p020105.d

Date : 01-FEB-2016 16:07

Client ID: Level 5

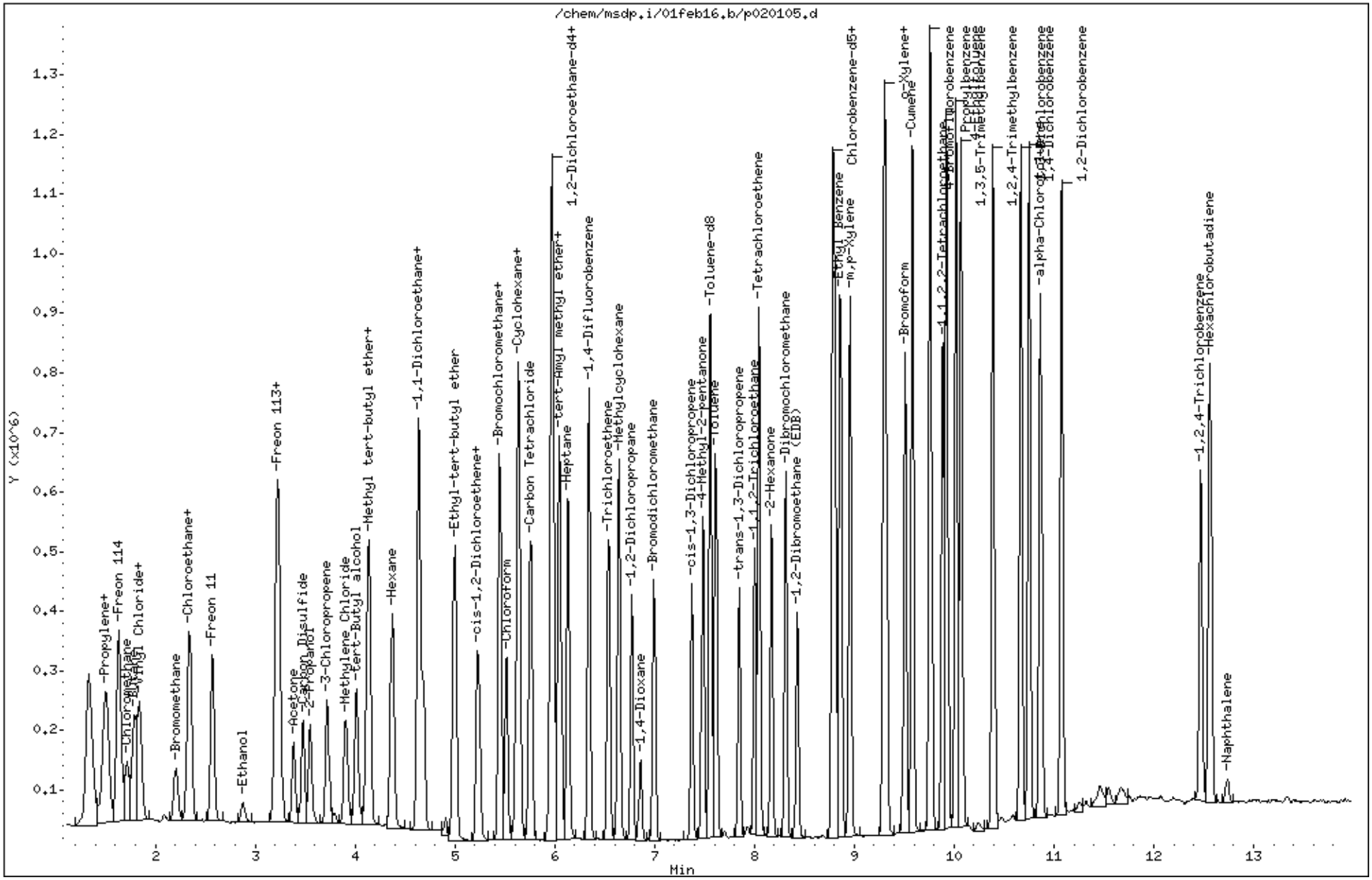
Sample Info: 20ml #2759-209

Column phase: RTX-624

Instrument: msdp.i

Operator: kl

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/01feb16.b/p020106.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 01-FEB-2016 16:31
Operator : kl Inst ID: msdp.i
Smp Info : 50ml #2759-209
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 12:36 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 16:31 Cal File: p020106.d
Als bottle: 13 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

Name	Value	Description
DF	1.00000	Dilution Factor

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	163500	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	129269			49.06- 109.06	79.06
5.449	5.449 (1.000)	49	252111			124.20- 184.20	154.20
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	658886	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	96011			0.00- 44.57	14.57
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.787 (1.000)	117	634233	25.0000		80.00- 120.00	100.00
8.787	8.787 (1.000)	82	319412			20.36- 80.36	50.36
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.993	5.993 (1.098)	65	242031	25.0000	25.675	80.00- 120.00	100.00
5.993	5.993 (1.098)	67	137192			26.68- 86.68	56.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.562 (1.192)	98	660254	25.0000	25.167	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	70138			0.00- 40.62	10.62
7.562	7.562 (1.192)	100	440655			36.74- 96.74	66.74
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	520679	25.0000	25.633	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	499590			65.95- 125.95	95.95
9.761	9.761 (1.111)	176	498805			65.80- 125.80	95.80
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	328676	50.0000	46.869	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	212332			34.60- 94.60	64.60
1.479	1.479 (0.271)	39	240704			43.23- 103.23	73.23
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	898359	50.0000	49.615	80.00- 120.00	100.00
1.507	1.507 (0.276)	87	285363			1.76- 61.76	31.76
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.299)	135	680991	50.0000	48.739	80.00- 120.00	100.00
1.633	1.633 (0.299)	137	219484			2.23- 62.23	32.23
17 Chloromethane					CAS #: 74-87-3		
1.717	1.717 (0.315)	50	394198	50.0000	68.110	80.00- 120.00	100.00
1.717	1.717 (0.315)	52	118170			0.00- 59.98	29.98
23 Butane					CAS #: 106-97-8		
1.787	1.787 (0.327)	58	75938	50.0000	40.841	80.00- 120.00	100.00
1.787	1.787 (0.327)	43	617452			783.10- 843.10	813.10
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	392645	50.0000	50.087	80.00- 120.00	100.00
1.828	1.828 (0.335)	64	138063			5.16- 65.16	35.16
26 1,3-Butadiene					CAS #: 106-99-0		
1.842	1.842 (0.338)	54	322132	50.0000	47.923	80.00- 120.00	100.00
1.842	1.842 (0.338)	39	360532			81.92- 141.92	111.92
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	263491	50.0000	60.111	80.00- 120.00	100.00
2.204	2.204 (0.404)	96	250589			65.10- 125.10	95.10
30 Chloroethane					CAS #: 75-00-3		
2.326	2.326 (0.426)	64	171387	50.0000	47.287	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	51391			0.00- 59.99	29.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	61450			5.85- 65.85	35.85
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	486203	50.0000	46.877	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	321962			36.22- 96.22	66.22
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	923332	50.0000	48.816	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	595508			34.50- 94.50	64.50
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	162295	50.0000	54.318	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	33701			0.00- 50.77	20.77
2.884	2.884 (0.529)	46	62770			8.68- 68.68	38.68
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.590)	151	723939	50.0000	47.020	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	459304			33.45- 93.45	63.45
3.221	3.221 (0.590)	101	755488			74.36- 134.36	104.36
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	199810	50.0000	47.923	80.00- 120.00	100.00
3.242	3.242 (0.594)	96	326888			133.60- 193.60	163.60
3.242	3.242 (0.594)	61	664510			302.57- 362.57	332.57
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	190065	50.0000	41.778	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	671024			323.05- 383.05	353.05
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	897946	50.0000	47.912	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.651)	45	798763	50.0000	40.717	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	157487			0.00- 49.72	19.72
3.550	3.550 (0.651)	59	26861			0.00- 33.36	3.36
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	148313	50.0000	47.613	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	547410			339.09- 399.09	369.09
66 Methylene Chloride					CAS #: 75-09-2		
3.909	3.909 (0.716)	49	511861	50.0000	51.327	80.00- 120.00	100.00
3.909	3.909 (0.716)	84	284742			25.63- 85.63	55.63
3.909	3.909 (0.716)	51	155936			0.46- 60.46	30.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	896707	50.0000	47.680	80.00- 120.00	100.00
4.016	4.016 (0.736)	41	192329			0.00- 51.45	21.45
4.016	4.016 (0.736)	57	99310			0.00- 41.07	11.07
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.756)	73	984332	50.0000	47.950	80.00- 120.00	100.00
4.123	4.123 (0.756)	57	286710			0.00- 59.13	29.13
4.123	4.123 (0.756)	41	284536			0.00- 58.91	28.91
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.152	4.152 (0.761)	98	213328	50.0000	52.293	80.00- 120.00	100.00
4.145	4.145 (0.760)	61	582320			242.97- 302.97	272.97
4.152	4.152 (0.761)	96	335621			127.33- 187.33	157.33
78 Hexane					CAS #: 110-54-3		
4.374	4.374 (0.802)	57	654678	50.0000	47.549	80.00- 120.00	100.00
4.374	4.374 (0.802)	43	420941			34.30- 94.30	64.30
4.374	4.374 (0.802)	86	79645			0.00- 42.17	12.17
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.646	4.646 (0.852)	63	679436	50.0000	49.579	80.00- 120.00	100.00
4.646	4.646 (0.852)	65	204455			0.09- 60.09	30.09
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.850)	45	1474953	50.0000	48.430	80.00- 120.00	100.00
4.639	4.639 (0.850)	87	315435			0.00- 51.39	21.39
4.639	4.639 (0.850)	59	157512			0.00- 40.68	10.68
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.860)	86	89391	50.0000	49.831	80.00- 120.00	100.00
4.689	4.689 (0.860)	43	1399079			1535.12-1595.12	1565.12
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.997	4.997 (0.916)	59	1380674	50.0000	49.007	80.00- 120.00	100.00
4.997	4.997 (0.916)	87	470648			4.09- 64.09	34.09
4.997	4.997 (0.916)	41	263234			0.00- 49.07	19.07
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.227	5.227 (0.958)	98	224987	50.0000	47.942	80.00- 120.00	100.00
5.219	5.219 (0.957)	96	349205			125.21- 185.21	155.21
5.219	5.219 (0.957)	61	543139			211.41- 271.41	241.41
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	170822	50.0000	47.857	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	823613			452.15- 512.15	482.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.248	5.248 (0.962)	57	67550			9.54- 69.54	39.54
99 Tetrahydrofuran					CAS #: 109-99-9		
5.449	5.449 (0.999)	42	458446	50.0000	48.767	80.00- 120.00	100.00
5.449	5.449 (0.999)	71	147122			2.09- 62.09	32.09
5.449	5.449 (0.999)	72	154092			3.61- 63.61	33.61
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	702393	50.0000	48.756	80.00- 120.00	100.00
5.513	5.513 (1.010)	85	460790			35.60- 95.60	65.60
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	474557	50.0000	45.203	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	690154			115.43- 175.43	145.43
5.628	5.628 (1.032)	41	396977			53.65- 113.65	83.65
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.034)	97	812372	50.0000	48.355	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	513532			33.21- 93.21	63.21
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.055)	119	846206	50.0000	49.210	80.00- 120.00	100.00
5.757	5.757 (1.055)	117	898751			76.21- 136.21	106.21
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	2210790	50.0000	48.832	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	687666			1.10- 61.10	31.10
5.964	5.964 (1.093)	41	598767			0.00- 57.08	27.08
116 Benzene					CAS #: 71-43-2		
5.972	5.972 (0.941)	78	989541	50.0000	49.562	80.00- 120.00	100.00
5.972	5.972 (0.941)	77	236634			0.00- 53.91	23.91
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.043	6.043 (0.953)	87	262380	50.0000	48.158	80.00- 120.00	100.00
6.043	6.043 (0.953)	73	1092970			386.56- 446.56	416.56
6.043	6.043 (0.953)	55	332559			96.75- 156.75	126.75
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.058	6.058 (0.955)	62	560839	50.0000	52.006	80.00- 120.00	100.00
6.058	6.058 (0.955)	64	169875			0.29- 60.29	30.29
121 Heptane					CAS #: 142-82-5		
6.136	6.136 (0.967)	71	378334	50.0000	41.466	80.00- 120.00	100.00
6.136	6.136 (0.967)	43	765849			172.43- 232.43	202.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.136	6.136 (0.967)	57	437007			85.51- 145.51	115.51
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	483690	50.0000	50.537	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	531091			79.80- 139.80	109.80
6.537	6.537 (1.030)	97	307807			33.64- 93.64	63.64
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	685634	50.0000	47.209	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	321819			16.94- 76.94	46.94
6.645	6.645 (1.047)	55	656469			65.75- 125.75	95.75
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	447972	50.0000	48.235	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	311862			39.62- 99.62	69.62
6.774	6.774 (1.068)	41	271143			30.53- 90.53	60.53
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	255691	50.0000	52.148	80.00- 120.00	100.00
6.860	6.860 (1.081)	58	209665			52.00- 112.00	82.00
6.860	6.860 (1.081)	57	67222			0.00- 56.29	26.29
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	778682	50.0000	49.279	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	500689			34.30- 94.30	64.30
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.376	7.376 (1.163)	75	672836	50.0000	51.213	80.00- 120.00	100.00
7.376	7.376 (1.163)	77	220073			2.71- 62.71	32.71
7.376	7.376 (1.163)	39	437804			35.07- 95.07	65.07
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	409162	50.0000	50.114	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	1067710			230.95- 290.95	260.95
7.483	7.483 (1.180)	85	155392			7.98- 67.98	37.98
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	1366279	50.0000	48.558	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	784038			27.38- 87.38	57.38
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	609535	50.0000	50.164	80.00- 120.00	100.00
7.848	7.848 (0.893)	77	195675			2.10- 62.10	32.10
7.848	7.848 (0.893)	39	371715			30.98- 90.98	60.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.006	8.006 (0.911)	97	467818	50.0000	48.397	80.00- 120.00	100.00
8.006	8.006 (0.911)	99	286945			31.34- 91.34	61.34
8.006	8.006 (0.911)	83	407954			57.20- 117.20	87.20
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.916)	166	818473	50.0000	48.572	80.00- 120.00	100.00
8.049	8.049 (0.916)	129	534683			35.33- 95.33	65.33
8.049	8.049 (0.916)	131	534920			35.36- 95.36	65.36
158 2-Hexanone					CAS #: 591-78-6		
8.171	8.171 (0.930)	58	562580	50.0000	53.949	80.00- 120.00	100.00
8.171	8.171 (0.930)	43	1048607			156.39- 216.39	186.39
8.171	8.171 (0.930)	100	101540			0.00- 48.05	18.05
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.946)	129	982263	50.0000	50.272	80.00- 120.00	100.00
8.314	8.314 (0.946)	127	767304			48.12- 108.12	78.12
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.959)	107	778335	50.0000	50.054	80.00- 120.00	100.00
8.428	8.428 (0.959)	109	730644			63.87- 123.87	93.87
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	1177707	50.0000	49.514	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	381352			2.38- 62.38	32.38
8.808	8.808 (1.002)	77	642905			24.59- 84.59	54.59
167 Ethyl Benzene					CAS #: 100-41-4		
8.865	8.865 (1.009)	106	619896	50.0000	48.758	80.00- 120.00	100.00
8.858	8.858 (1.008)	91	1900174			276.53- 336.53	306.53
169 m,p-Xylene					CAS #: 108-38-3		
8.959	8.959 (1.020)	106	766045	50.0000	49.966	80.00- 120.00	100.00
8.959	8.959 (1.020)	91	1505965			166.59- 226.59	196.59
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.058)	106	732801	50.0000	49.650	80.00- 120.00	100.00
9.295	9.295 (1.058)	91	1510145			176.08- 236.08	206.08
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.060)	104	1198807	50.0000	56.974	80.00- 120.00	100.00
9.317	9.317 (1.060)	78	570351			17.58- 77.58	47.58
174 Bromoform					CAS #: 75-25-2		
9.510	9.510 (1.082)	173	1207776	50.0000	50.561	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.510	9.510 (1.082)	171	620284			21.36- 81.36	51.36
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.090)	105	2311382	50.0000	49.189	80.00- 120.00	100.00
9.582	9.582 (1.090)	120	642264			0.00- 57.79	27.79
9.582	9.582 (1.090)	51	261823			0.00- 41.33	11.33
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.883	9.883 (1.125)	83	1133238	50.0000	47.469	80.00- 120.00	100.00
9.883	9.883 (1.125)	85	727787			34.22- 94.22	64.22
182 Propylbenzene					CAS #: 103-65-1		
9.926	9.926 (1.130)	91	2749345	50.0000	49.634	80.00- 120.00	100.00
9.926	9.926 (1.130)	120	669109			0.00- 54.34	24.34
9.926	9.926 (1.130)	105	97310			0.00- 33.54	3.54
188 4-Ethyltoluene					CAS #: 622-96-8		
10.019	10.019 (1.140)	120	774684	50.0000	51.126	80.00- 120.00	100.00
10.019	10.019 (1.140)	105	2398917			279.66- 339.66	309.66
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.146)	120	983928	50.0000	52.129	80.00- 120.00	100.00
10.069	10.069 (1.146)	105	1965092			169.72- 229.72	199.72
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.183)	120	903781	50.0000	51.835	80.00- 120.00	100.00
10.391	10.391 (1.183)	105	1948876			185.64- 245.64	215.64
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.671	10.671 (1.214)	146	1495940	50.0000	49.856	80.00- 120.00	100.00
10.671	10.671 (1.214)	148	960877			34.23- 94.23	64.23
10.671	10.671 (1.214)	111	559502			7.40- 67.40	37.40
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.223)	146	1506360	50.0000	49.328	80.00- 120.00	100.00
10.749	10.749 (1.223)	148	958118			33.60- 93.60	63.60
10.749	10.749 (1.223)	111	525323			4.87- 64.87	34.87
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.864 (1.236)	91	1941191	50.0000	51.553	80.00- 120.00	100.00
10.864	10.864 (1.236)	126	450769			0.00- 53.22	23.22
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.261)	146	1439174	50.0000	50.323	80.00- 120.00	100.00
11.079	11.079 (1.261)	148	916142			33.66- 93.66	63.66

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

  214 1,2-Dichlorobenzene (continued)
 11.072  11.072 (1.260)   111    545704                     7.92-  67.92    37.92
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.468  12.468 (1.419)   180   1156109 50.0000   52.557  80.00- 120.00   100.00
 12.468  12.468 (1.419)   182   1116959                   66.61- 126.61    96.61
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.569  12.569 (1.430)   225    962966 50.0000   50.069  80.00- 120.00   100.00
 12.562  12.562 (1.430)   223    603417                    32.66-  92.66    62.66
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.733  12.733 (1.449)   128    215169 5.00000    5.944  80.00- 120.00   100.00
 12.733  12.733 (1.449)   127     27593                     0.00-  42.82    12.82
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Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020106.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: /chem/msdp.i/01feb16.b/p16q0201a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 01-FEB-2016
Calibration Time: 16:31
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

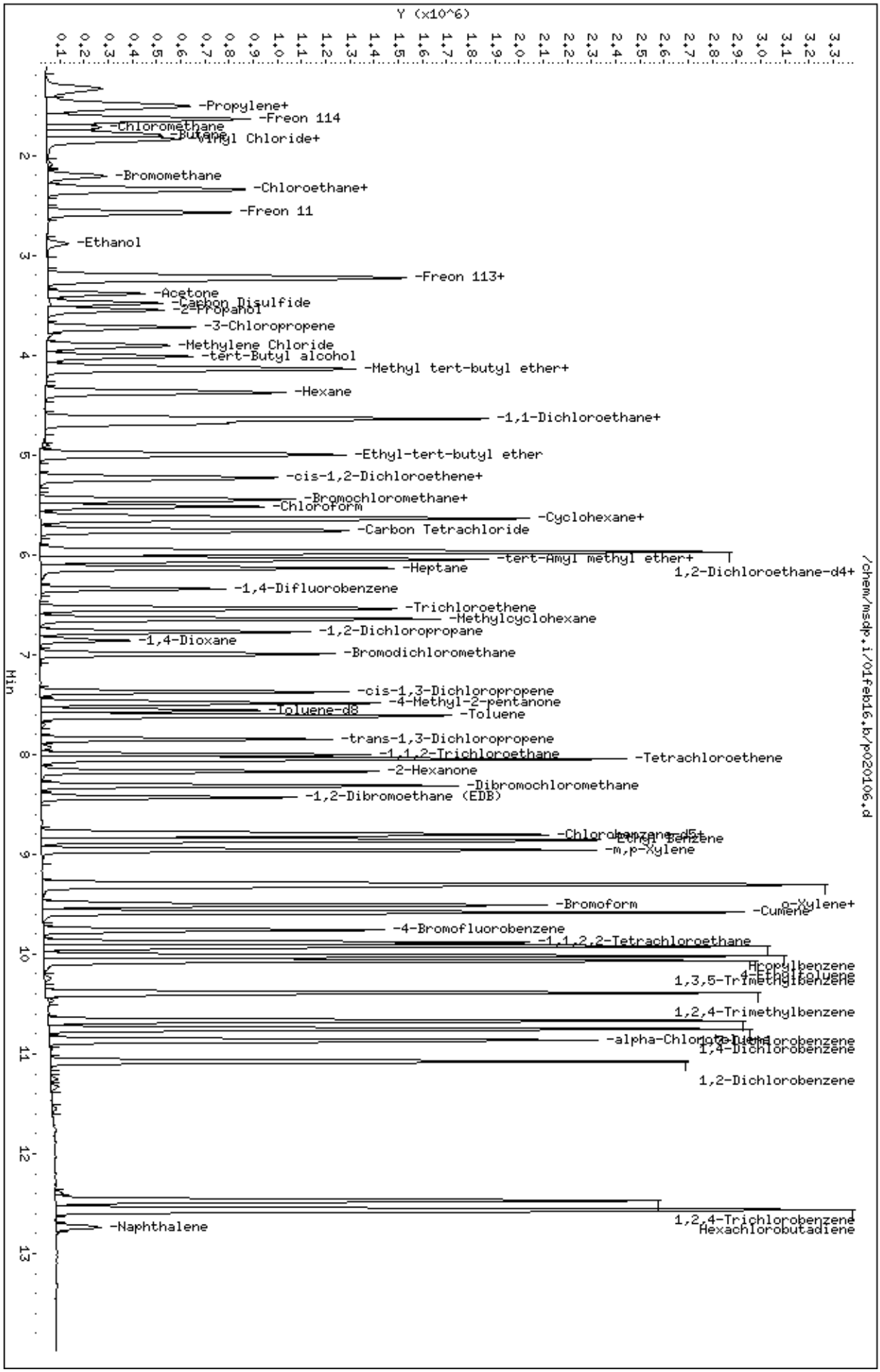
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	163500	98100	228900	163500	0.00
123 1,4-Difluorobenze	658886	395332	922440	658886	0.00
163 Chlorobenzene-d5	634233	380540	887926	634233	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.46	5.13	5.79	5.46	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.79	8.46	9.12	8.79	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/01feb16.b/p020106.d
Date : 01-FEB-2016 16:31
Client ID: Level 6
Sample Info: 50ml #2759-209
Column phase: RTX-624

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/01feb16.b/p020107.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 01-FEB-2016 16:56
Operator : kl Inst ID: msdp.i
Smp Info : 100ml #2759-209
Misc Info : 100ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 12:36 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 16:56 Cal File: p020107.d
Als bottle: 13 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

Name	Value	Description
DF	1.00000	Dilution Factor

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	169232	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	129407			49.06- 109.06	76.47
5.456	5.456 (1.000)	49	244148			124.20- 184.20	144.27
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	672267	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	96911			0.00- 44.57	14.42
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.787 (1.000)	117	653697	25.0000		80.00- 120.00	100.00
8.787	8.787 (1.000)	82	333892			20.36- 80.36	51.08
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.993	5.993 (1.098)	65	256765	25.0000	26.086	80.00- 120.00	100.00
5.993	5.993 (1.098)	67	158636			26.68- 86.68	61.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.562 (1.192)	98	672689	25.0000	25.109	80.00- 120.00	100.00
7.562	7.562 (1.192)	70	74546			0.00- 40.62	11.08
7.562	7.562 (1.192)	100	447225			36.74- 96.74	66.48
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	537450	25.0000	25.557	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	517828			65.95- 125.95	96.35
9.761	9.761 (1.111)	176	531896			65.80- 125.80	98.97
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	680788	100.000	94.970	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	450669			34.60- 94.60	66.20
1.479	1.479 (0.271)	39	507162			43.23- 103.23	74.50
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	1870350	100.000	99.832	80.00- 120.00	100.00
1.521	1.521 (0.279)	87	601350			1.76- 61.76	32.15
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.299)	135	1447619	100.000	100.08	80.00- 120.00	100.00
1.633	1.633 (0.299)	137	468002			2.23- 62.23	32.33
17 Chloromethane					CAS #: 74-87-3		
1.730	1.730 (0.317)	50	733248	100.000	117.15	80.00- 120.00	100.00
1.730	1.730 (0.317)	52	234193			0.00- 59.98	31.94
23 Butane					CAS #: 106-97-8		
1.800	1.800 (0.330)	58	188698	100.000	98.432	80.00- 120.00	100.00
1.786	1.786 (0.327)	43	1287186			783.10- 843.10	682.14
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	912675	100.000	110.19	80.00- 120.00	100.00
1.828	1.828 (0.335)	64	274310			5.16- 65.16	30.06
26 1,3-Butadiene					CAS #: 106-99-0		
1.856	1.856 (0.340)	54	682323	100.000	98.387	80.00- 120.00	100.00
1.856	1.856 (0.340)	39	880117			81.92- 141.92	128.99
29 Bromomethane					CAS #: 74-83-9		
2.211	2.211 (0.405)	94	567344	100.000	120.04	80.00- 120.00	100.00
2.211	2.211 (0.405)	96	517215			65.10- 125.10	91.16
30 Chloroethane					CAS #: 75-00-3		
2.325	2.325 (0.426)	64	373538	100.000	99.657	80.00- 120.00	100.00
2.325	2.325 (0.426)	66	109625			0.00- 59.99	29.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	131517			5.85- 65.85	35.21
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	999694	100.000	94.420	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	663090			36.22- 96.22	66.33
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	1951749	100.000	99.744	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	1260015			34.50- 94.50	64.56
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.529)	45	335930	100.000	106.78	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	71398			0.00- 50.77	21.25
2.891	2.891 (0.530)	46	130123			8.68- 68.68	38.74
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.590)	151	1470525	100.000	93.479	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	950223			33.45- 93.45	64.62
3.221	3.221 (0.590)	101	1557459			74.36- 134.36	105.91
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.596)	98	429429	100.000	99.589	80.00- 120.00	100.00
3.249	3.249 (0.596)	96	685051			133.60- 193.60	159.53
3.249	3.249 (0.596)	61	1404827			302.57- 362.57	327.14
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	398163	100.000	87.250	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	1407919			323.05- 383.05	353.60
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	1881801	100.000	97.591	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.651)	45	1669011	100.000	85.232	80.00- 120.00	100.00
3.558	3.558 (0.652)	43	332294			0.00- 49.72	19.91
3.550	3.550 (0.651)	59	59365			0.00- 33.36	3.56
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.684)	76	314475	100.000	98.020	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	1163612			339.09- 399.09	370.02
66 Methylene Chloride					CAS #: 75-09-2		
3.909	3.909 (0.716)	49	1081065	100.000	103.91	80.00- 120.00	100.00
3.909	3.909 (0.716)	84	600690			25.63- 85.63	55.56
3.909	3.909 (0.716)	51	329565			0.46- 60.46	30.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.016	4.016 (0.736)	59	1857353	100.000	96.298	80.00- 120.00	100.00
4.016	4.016 (0.736)	41	393099			0.00- 51.45	21.16
4.016	4.016 (0.736)	57	201087			0.00- 41.07	10.83
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.756)	73	2002317	100.000	95.151	80.00- 120.00	100.00
4.123	4.123 (0.756)	57	580367			0.00- 59.13	28.98
4.123	4.123 (0.756)	41	562085			0.00- 58.91	28.07
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.152	4.152 (0.761)	98	446268	100.000	104.70	80.00- 120.00	100.00
4.152	4.152 (0.761)	61	1244929			242.97- 302.97	278.96
4.152	4.152 (0.761)	96	700406			127.33- 187.33	156.95
78 Hexane					CAS #: 110-54-3		
4.374	4.374 (0.802)	57	1367574	100.000	96.613	80.00- 120.00	100.00
4.374	4.374 (0.802)	43	877480			34.30- 94.30	64.16
4.374	4.374 (0.802)	86	165598			0.00- 42.17	12.11
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.646	4.646 (0.852)	63	1460376	100.000	102.45	80.00- 120.00	100.00
4.646	4.646 (0.852)	65	427312			0.09- 60.09	29.26
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.850)	45	3040211	100.000	97.134	80.00- 120.00	100.00
4.639	4.639 (0.850)	87	625223			0.00- 51.39	20.57
4.639	4.639 (0.850)	59	320062			0.00- 40.68	10.53
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.860)	86	195975	100.000	104.39	80.00- 120.00	100.00
4.689	4.689 (0.860)	43	2991207			1535.12-1595.12	1526.32
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.997	4.997 (0.916)	59	2824733	100.000	97.479	80.00- 120.00	100.00
4.997	4.997 (0.916)	87	946627			4.09- 64.09	33.51
4.997	4.997 (0.916)	41	533556			0.00- 49.07	18.89
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.226	5.226 (0.958)	98	470819	100.000	97.426	80.00- 120.00	100.00
5.226	5.226 (0.958)	96	741630			125.21- 185.21	157.52
5.219	5.219 (0.957)	61	1158767			211.41- 271.41	246.12
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	356963	100.000	97.277	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	1759965			452.15- 512.15	493.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.248	5.248 (0.962)	57	143205			9.54- 69.54	40.12
99 Tetrahydrofuran					CAS #: 109-99-9		
5.449	5.449 (0.999)	42	973918	100.000	100.08	80.00- 120.00	100.00
5.449	5.449 (0.999)	71	309988			2.09- 62.09	31.83
5.449	5.449 (0.999)	72	327943			3.61- 63.61	33.67
100 Chloroform					CAS #: 67-66-3		
5.520	5.520 (1.012)	83	1502075	100.000	100.61	80.00- 120.00	100.00
5.520	5.520 (1.012)	85	969870			35.60- 95.60	64.57
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	957034	100.000	89.859	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	1407931			115.43- 175.43	147.11
5.628	5.628 (1.032)	41	793532			53.65- 113.65	82.92
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.034)	97	1615581	100.000	94.019	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	1026995			33.21- 93.21	63.57
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.055)	119	1737660	100.000	98.015	80.00- 120.00	100.00
5.757	5.757 (1.055)	117	1802038			76.21- 136.21	103.70
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	4493334	100.000	96.550	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	1481595			1.10- 61.10	32.97
5.964	5.964 (1.093)	41	1217648			0.00- 57.08	27.10
116 Benzene					CAS #: 71-43-2		
5.971	5.971 (0.941)	78	2054332	100.000	100.70	80.00- 120.00	100.00
5.971	5.971 (0.941)	77	490627			0.00- 53.91	23.88
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.043	6.043 (0.953)	87	545739	100.000	98.533	80.00- 120.00	100.00
6.043	6.043 (0.953)	73	2249088			386.56- 446.56	412.12
6.043	6.043 (0.953)	55	673813			96.75- 156.75	123.47
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.057 (0.955)	62	1191168	100.000	106.79	80.00- 120.00	100.00
6.057	6.057 (0.955)	64	361349			0.29- 60.29	30.34
121 Heptane					CAS #: 142-82-5		
6.136	6.136 (0.967)	71	766370	100.000	84.823	80.00- 120.00	100.00
6.136	6.136 (0.967)	43	1566408			172.43- 232.43	204.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.136	6.136 (0.967)	57	868198			85.51- 145.51	113.29
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	1000533	100.000	102.04	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	1117081			79.80- 139.80	111.65
6.537	6.537 (1.030)	97	649561			33.64- 93.64	64.92
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	1362602	100.000	93.204	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	641674			16.94- 76.94	47.09
6.645	6.645 (1.047)	55	1338370			65.75- 125.75	98.22
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	915314	100.000	97.145	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	663396			39.62- 99.62	72.48
6.774	6.774 (1.068)	41	576659			30.53- 90.53	63.00
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	529282	100.000	104.58	80.00- 120.00	100.00
6.860	6.860 (1.081)	58	433536			52.00- 112.00	81.91
6.853	6.853 (1.080)	57	147455			0.00- 56.29	27.86
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	1637903	100.000	101.32	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	1058160			34.30- 94.30	64.60
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.375	7.375 (1.163)	75	1410783	100.000	104.33	80.00- 120.00	100.00
7.375	7.375 (1.163)	77	449380			2.71- 62.71	31.85
7.375	7.375 (1.163)	39	921692			35.07- 95.07	65.33
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	835137	100.000	100.21	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	2182344			230.95- 290.95	261.32
7.483	7.483 (1.180)	85	312753			7.98- 67.98	37.45
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	2823205	100.000	98.613	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	1628441			27.38- 87.38	57.68
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	1284575	100.000	102.13	80.00- 120.00	100.00
7.848	7.848 (0.893)	77	406720			2.10- 62.10	31.66
7.848	7.848 (0.893)	39	785885			30.98- 90.98	61.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.006	8.006 (0.911)	97	978196	100.000	98.482	80.00- 120.00	100.00
8.006	8.006 (0.911)	99	605339			31.34- 91.34	61.88
8.006	8.006 (0.911)	83	832791			57.20- 117.20	85.14
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.916)	166	1692251	100.000	97.854	80.00- 120.00	100.00
8.049	8.049 (0.916)	129	1109547			35.33- 95.33	65.57
8.049	8.049 (0.916)	131	1096013			35.36- 95.36	64.77
158 2-Hexanone					CAS #: 591-78-6		
8.171	8.171 (0.930)	58	1162059	100.000	106.67	80.00- 120.00	100.00
8.171	8.171 (0.930)	43	2157297			156.39- 216.39	185.64
8.171	8.171 (0.930)	100	209821			0.00- 48.05	18.06
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.946)	129	2033377	100.000	100.81	80.00- 120.00	100.00
8.314	8.314 (0.946)	127	1594684			48.12- 108.12	78.43
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.959)	107	1615770	100.000	100.68	80.00- 120.00	100.00
8.428	8.428 (0.959)	109	1517920			63.87- 123.87	93.94
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	2472661	100.000	100.72	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	783223			2.38- 62.38	31.68
8.808	8.808 (1.002)	77	1294066			24.59- 84.59	52.33
167 Ethyl Benzene					CAS #: 100-41-4		
8.865	8.865 (1.009)	106	1242975	100.000	95.675	80.00- 120.00	100.00
8.865	8.865 (1.009)	91	3840416			276.53- 336.53	308.97
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.958 (1.020)	106	1549469	100.000	98.374	80.00- 120.00	100.00
8.958	8.958 (1.020)	91	3069277			166.59- 226.59	198.09
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.058)	106	1474550	100.000	97.429	80.00- 120.00	100.00
9.295	9.295 (1.058)	91	3060841			176.08- 236.08	207.58
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.060)	104	2460174	100.000	110.95	80.00- 120.00	100.00
9.317	9.317 (1.060)	78	1169013			17.58- 77.58	47.52
174 Bromoform					CAS #: 75-25-2		
9.510	9.510 (1.082)	173	2505354	100.000	101.46	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.510	9.510 (1.082)	171	1287705			21.36- 81.36	51.40
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.090)	105	4636048	100.000	96.410	80.00- 120.00	100.00
9.582	9.582 (1.090)	120	1278524			0.00- 57.79	27.58
9.582	9.582 (1.090)	51	522593			0.00- 41.33	11.27
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.882 (1.125)	83	2256178	100.000	92.980	80.00- 120.00	100.00
9.882	9.882 (1.125)	85	1443290			34.22- 94.22	63.97
182 Propylbenzene					CAS #: 103-65-1		
9.925	9.925 (1.130)	91	5457514	100.000	96.298	80.00- 120.00	100.00
9.925	9.925 (1.130)	120	1337043			0.00- 54.34	24.50
9.925	9.925 (1.130)	105	200352			0.00- 33.54	3.67
188 4-Ethyltoluene					CAS #: 622-96-8		
10.019	10.019 (1.140)	120	1554239	100.000	99.598	80.00- 120.00	100.00
10.019	10.019 (1.140)	105	4875583			279.66- 339.66	313.70
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.146)	120	1974854	100.000	101.26	80.00- 120.00	100.00
10.069	10.069 (1.146)	105	3996630			169.72- 229.72	202.38
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.183)	120	1819618	100.000	101.04	80.00- 120.00	100.00
10.391	10.391 (1.183)	105	3936633			185.64- 245.64	216.34
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.670 (1.214)	146	3018110	100.000	97.985	80.00- 120.00	100.00
10.670	10.670 (1.214)	148	1908608			34.23- 94.23	63.24
10.670	10.670 (1.214)	111	1114228			7.40- 67.40	36.92
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.223)	146	3032727	100.000	96.943	80.00- 120.00	100.00
10.749	10.749 (1.223)	148	1927076			33.60- 93.60	63.54
10.749	10.749 (1.223)	111	1072114			4.87- 64.87	35.35
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.864 (1.236)	91	3893916	100.000	100.28	80.00- 120.00	100.00
10.864	10.864 (1.236)	126	909867			0.00- 53.22	23.37
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.079	11.079 (1.261)	146	2873037	100.000	97.882	80.00- 120.00	100.00
11.079	11.079 (1.261)	148	1817072			33.66- 93.66	63.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.072	11.072 (1.260)	111	1107949			7.92- 67.92	38.56
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.468	12.468 (1.419)	180	2787705	100.000	117.56	80.00- 120.00	100.00
12.468	12.468 (1.419)	182	2660209			66.61- 126.61	95.43
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.569	12.569 (1.430)	225	2369096	100.000	115.02	80.00- 120.00	100.00
12.561	12.561 (1.430)	223	1504969			32.66- 92.66	63.53
228 Naphthalene					CAS #: 91-20-3		
12.733	12.733 (1.449)	128	508976	10.0000	12.716	80.00- 120.00	100.00
12.733	12.733 (1.449)	127	64220			0.00- 42.82	12.62

Report Date: 02-Feb-2016 12:36

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020107.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: /chem/msdp.i/01feb16.b/p16q0201a.m
Misc Info: 100ppbv(200ppbv)

Calibration Date: 01-FEB-2016
Calibration Time: 16:31
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

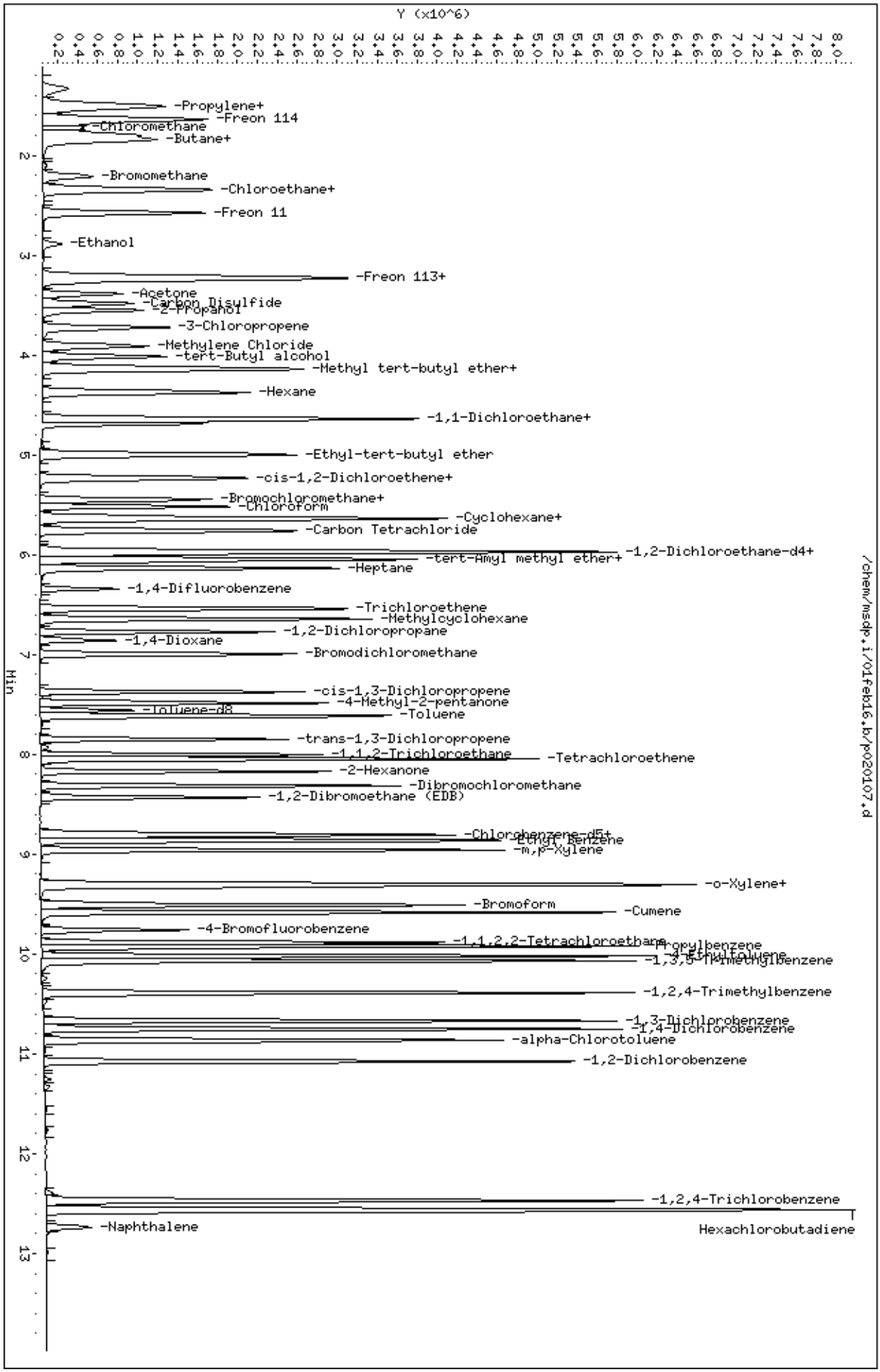
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	163500	98100	228900	169232	3.51
123 1,4-Difluorobenze	658886	395332	922440	672267	2.03
163 Chlorobenzene-d5	634233	380540	887926	653697	3.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.46	5.13	5.79	5.46	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.79	8.46	9.12	8.79	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/01feb16.b/p020107.d
Date : 01-FEB-2016 16:56
Client ID: Level 7
Sample Info: 100ml #2759-209
Column phase: RTX-624

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/01feb16.b/p020108.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 01-FEB-2016 17:22
Operator : kl Inst ID: msdp.i
Smp Info : 200ml #2759-209
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/01feb16.b/p16q0201a.m
Meth Date : 02-Feb-2016 12:36 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.d
Als bottle: 13 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

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.463	5.463 (1.000)	130	172028	25.0000		80.00- 120.00	100.00
5.463	5.463 (1.000)	128	132537			49.06- 109.06	77.04
5.456	5.456 (1.000)	49	239539			124.20- 184.20	139.24
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	684037	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	103701			0.00- 44.57	15.16
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.787 (1.000)	117	665852	25.0000		80.00- 120.00	100.00
8.787	8.787 (1.000)	82	343886			20.36- 80.36	51.65
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.993	5.993 (1.097)	65	275752	25.0000	27.163	80.00- 120.00	100.00
5.993	5.993 (1.097)	67	204367			26.68- 86.68	74.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.562	7.562 (1.192)	98	693676	25.0000	25.382	80.00- 120.00	100.00
7.562	7.562 (1.192)	70	74149			0.00- 40.62	10.69
7.562	7.562 (1.192)	100	463213			36.74- 96.74	66.78
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.768	9.768 (1.112)	174	544892	25.0000	25.374	80.00- 120.00	100.00
9.768	9.768 (1.112)	95	528761			65.95- 125.95	97.04
9.768	9.768 (1.112)	176	537230			65.80- 125.80	98.59
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	1420471	200.000	195.76	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	957539			34.60- 94.60	67.41
1.479	1.479 (0.271)	39	1059486			43.23- 103.23	74.59
11 Freon 12					CAS #: 75-71-8		
1.521	1.521 (0.278)	85	3938910	200.000	205.82	80.00- 120.00	100.00(A)
1.521	1.521 (0.278)	87	1272762			1.76- 61.76	32.31
15 Freon 114					CAS #: 76-14-2		
1.646	1.646 (0.301)	135	3056275	200.000	206.70	80.00- 120.00	100.00(A)
1.646	1.646 (0.301)	137	971153			2.23- 62.23	31.78
17 Chloromethane					CAS #: 74-87-3		
1.730	1.730 (0.317)	50	1286001	200.000	201.77	80.00- 120.00	100.00(A)
1.730	1.730 (0.317)	52	425946			0.00- 59.98	33.12
23 Butane					CAS #: 106-97-8		
1.800	1.800 (0.330)	58	403332	200.000	205.78	80.00- 120.00	100.00(A)
1.800	1.800 (0.330)	43	2987808			783.10- 843.10	740.78
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	1826052	200.000	214.29	80.00- 120.00	100.00(A)
1.828	1.828 (0.335)	64	604978			5.16- 65.16	33.13
26 1,3-Butadiene					CAS #: 106-99-0		
1.856	1.856 (0.340)	54	1379469	200.000	196.28	80.00- 120.00	100.00
1.856	1.856 (0.340)	39	1819564			81.92- 141.92	131.90
29 Bromomethane					CAS #: 74-83-9		
2.211	2.211 (0.405)	94	1167195	200.000	235.71	80.00- 120.00	100.00(A)
2.211	2.211 (0.405)	96	1106076			65.10- 125.10	94.76
30 Chloroethane					CAS #: 75-00-3		
2.325	2.325 (0.426)	64	785432	200.000	205.09	80.00- 120.00	100.00(A)
2.325	2.325 (0.426)	66	239488			0.00- 59.99	30.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.325	2.325 (0.426)	49	271749			5.85- 65.85	34.60
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	2145751	200.000	199.48	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	1420239			36.22- 96.22	66.19
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	4052230	200.000	203.18	80.00- 120.00	100.00(A)
2.576	2.576 (0.472)	103	2598188			34.50- 94.50	64.12
42 Ethanol					CAS #: 64-17-5		
2.891	2.891 (0.529)	45	729017	200.000	222.77	80.00- 120.00	100.00(A)
2.891	2.891 (0.529)	43	147887			0.00- 50.77	20.29
2.891	2.891 (0.529)	46	280975			8.68- 68.68	38.54
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.590)	151	3077875	200.000	193.52	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	1982551			33.45- 93.45	64.41
3.221	3.221 (0.590)	101	3274720			74.36- 134.36	106.40
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.595)	98	894674	200.000	203.51	80.00- 120.00	100.00(A)
3.249	3.249 (0.595)	96	1418027			133.60- 193.60	158.50
3.249	3.249 (0.595)	61	2921935			302.57- 362.57	326.59
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.621)	58	803392	200.000	177.15	80.00- 120.00	100.00
3.393	3.393 (0.621)	43	2847990			323.05- 383.05	354.50
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.638)	76	3932321	200.000	200.51	80.00- 120.00	100.00(A)
57 2-Propanol					CAS #: 67-63-0		
3.557	3.557 (0.651)	45	3313300	200.000	171.24	80.00- 120.00	100.00
3.557	3.557 (0.651)	43	687063			0.00- 49.72	20.74
3.557	3.557 (0.651)	59	121752			0.00- 33.36	3.67
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.683)	76	665568	200.000	203.39	80.00- 120.00	100.00(A)
3.729	3.729 (0.683)	41	2415933			339.09- 399.09	362.99
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.715)	49	2270733	200.000	212.48	80.00- 120.00	100.00(A)
3.908	3.908 (0.715)	84	1262932			25.63- 85.63	55.62
3.908	3.908 (0.715)	51	678034			0.46- 60.46	29.86

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

   71 tert-Butyl alcohol                            CAS #: 75-65-0
  4.016   4.016 (0.735)    59   3925817 200.000   200.19  80.00- 120.00   100.00(A)
  4.016   4.016 (0.735)    41    823364                    0.00-  51.45    20.97
  4.023   4.023 (0.736)    57    437411                    0.00-  41.07    11.14
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.131   4.131 (0.756)    73   4174670 200.000   195.83  80.00- 120.00   100.00
  4.131   4.131 (0.756)    57   1220850                    0.00-  59.13    29.24
  4.131   4.131 (0.756)    41   1182477                    0.00-  58.91    28.33
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.152   4.152 (0.760)    98    944350 200.000   215.19  80.00- 120.00   100.00(A)
  4.152   4.152 (0.760)    61   2618135                  242.97- 302.97   277.24
  4.152   4.152 (0.760)    96   1479061                  127.33- 187.33   156.62
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.374   4.374 (0.801)    57   2903091 200.000   201.50  80.00- 120.00   100.00(A)
  4.374   4.374 (0.801)    43   1887209                   34.30-  94.30    65.01
  4.374   4.374 (0.801)    86    359921                    0.00-  42.17    12.40
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.646   4.646 (0.851)    63   3081279 200.000   210.74  80.00- 120.00   100.00(A)
  4.646   4.646 (0.851)    65    911545                    0.09-  60.09    29.58
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.849)    45   6358388 200.000   199.87  80.00- 120.00   100.00
  4.639   4.639 (0.849)    87   1294742                    0.00-  51.39    20.36
  4.639   4.639 (0.849)    59    671476                    0.00-  40.68    10.56
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.689   4.689 (0.858)    86    398975 200.000   207.50  80.00- 120.00   100.00(A)
  4.689   4.689 (0.858)    43   5969731                 1535.12-1595.12  1496.27
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.997   4.997 (0.915)    59   5951714 200.000   201.70  80.00- 120.00   100.00(A)
  4.997   4.997 (0.915)    87   1959482                    4.09-  64.09    32.92
  4.997   4.997 (0.915)    41   1113847                    0.00-  49.07    18.71
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.226   5.226 (0.957)    98    981005 200.000   199.74  80.00- 120.00   100.00
  5.226   5.226 (0.957)    96   1535969                  125.21- 185.21   156.57
  5.226   5.226 (0.957)    61   2442032                  211.41- 271.41   248.93
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.248   5.248 (0.961)    72    734870 200.000   197.50  80.00- 120.00   100.00
  5.248   5.248 (0.961)    43   3755497                  452.15- 512.15   511.04
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   92 2-Butanone (continued)
  5.248   5.248 (0.961)    57    296608                     9.54-  69.54    40.36
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.449   5.449 (0.997)    42   2061224 200.000   207.12  80.00- 120.00   100.00(A)
  5.449   5.449 (0.997)    71    659658                     2.09-  62.09    32.00
  5.449   5.449 (0.997)    72    687852                     3.61-  63.61    33.37
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.520   5.520 (1.010)    83   3098995 200.000   203.59  80.00- 120.00   100.00(A)
  5.520   5.520 (1.010)    85   2016375                   35.60-  95.60    65.07
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.628   5.628 (1.030)    84   1981341 200.000   185.26  80.00- 120.00   100.00
  5.628   5.628 (1.030)    56   2936433                  115.43- 175.43   148.20
  5.628   5.628 (1.030)    41   1654887                   53.65- 113.65    83.52
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.649   5.649 (1.034)    97   3351977 200.000   193.02  80.00- 120.00   100.00
  5.649   5.649 (1.034)    99   2158179                   33.21-  93.21    64.39
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.764   5.764 (1.055)   119   3605251 200.000   200.05  80.00- 120.00   100.00(A)
  5.764   5.764 (1.055)   117   3744352                   76.21- 136.21   103.86
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.964   5.964 (1.092)    57   9361522 200.000   198.18  80.00- 120.00   100.00
  5.964   5.964 (1.092)    56   2935903                    1.10-  61.10    31.36
  5.964   5.964 (1.092)    41   2548439                    0.00-  57.08    27.22
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.979   5.979 (0.942)    78   4277871 200.000   205.20  80.00- 120.00   100.00(A)
  5.979   5.979 (0.942)    77   1020444                    0.00-  53.91    23.85
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.043   6.043 (0.953)    87   1125825 200.000   199.81  80.00- 120.00   100.00
  6.043   6.043 (0.953)    73   4622948                  386.56- 446.56   410.63
  6.043   6.043 (0.953)    55   1419067                   96.75- 156.75   126.05
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.057   6.057 (0.955)    62   2489418 200.000   216.35  80.00- 120.00   100.00(A)
  6.057   6.057 (0.955)    64    763005                    0.29-  60.29    30.65
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.136   6.136 (0.967)    71   1584678 200.000   175.84  80.00- 120.00   100.00
  6.136   6.136 (0.967)    43   3276026                  172.43- 232.43   206.73
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.136	6.136 (0.967)	57	1833657			85.51- 145.51	115.71
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	2082485	200.000	207.44	80.00- 120.00	100.00(A)
6.537	6.537 (1.030)	130	2317894			79.80- 139.80	111.30
6.537	6.537 (1.030)	97	1352626			33.64- 93.64	64.95
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	2800681	200.000	189.86	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	1312712			16.94- 76.94	46.87
6.645	6.645 (1.047)	55	2789452			65.75- 125.75	99.60
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	1904759	200.000	198.87	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	1341078			39.62- 99.62	70.41
6.774	6.774 (1.068)	41	1194682			30.53- 90.53	62.72
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	1080093	200.000	208.06	80.00- 120.00	100.00(A)
6.860	6.860 (1.081)	58	892152			52.00- 112.00	82.60
6.860	6.860 (1.081)	57	296786			0.00- 56.29	27.48
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	3429541	200.000	207.25	80.00- 120.00	100.00(A)
6.996	6.996 (1.103)	85	2191722			34.30- 94.30	63.91
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.375	7.375 (1.163)	75	2945894	200.000	211.98	80.00- 120.00	100.00(A)
7.375	7.375 (1.163)	77	925058			2.71- 62.71	31.40
7.375	7.375 (1.163)	39	1945237			35.07- 95.07	66.03
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	1736206	200.000	204.05	80.00- 120.00	100.00(A)
7.483	7.483 (1.180)	43	4568958			230.95- 290.95	263.16
7.483	7.483 (1.180)	85	649757			7.98- 67.98	37.42
147 Toluene					CAS #: 108-88-3		
7.619	7.619 (1.201)	91	5849954	200.000	200.70	80.00- 120.00	100.00(A)
7.619	7.619 (1.201)	92	3361034			27.38- 87.38	57.45
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	2673257	200.000	207.38	80.00- 120.00	100.00(A)
7.848	7.848 (0.893)	77	838621			2.10- 62.10	31.37
7.848	7.848 (0.893)	39	1677291			30.98- 90.98	62.74

```
                                          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
  8.006   8.006 (0.911)    97   1991104 200.000   197.25  80.00- 120.00   100.00
  8.006   8.006 (0.911)    99   1230202                   31.34-  91.34    61.78
  8.006   8.006 (0.911)    83   1704689                   57.20- 117.20    85.62
-------------------------------------------------------------------------------
  156 Tetrachloroethene                              CAS #: 127-18-4
  8.049   8.049 (0.916)   166   3524879 200.000   200.09  80.00- 120.00   100.00(A)
  8.049   8.049 (0.916)   129   2280156                   35.33-  95.33    64.69
  8.049   8.049 (0.916)   131   2281342                   35.36-  95.36    64.72
-------------------------------------------------------------------------------
  158 2-Hexanone                                     CAS #: 591-78-6
  8.170   8.170 (0.930)    58   2411549 200.000   214.68  80.00- 120.00   100.00(A)
  8.170   8.170 (0.930)    43   4490249                  156.39- 216.39   186.20
  8.170   8.170 (0.930)   100    426950                    0.00-  48.05    17.70
-------------------------------------------------------------------------------
  160 Dibromochloromethane                           CAS #: 124-48-1
  8.314   8.314 (0.946)   129   4206293 200.000   204.04  80.00- 120.00   100.00(A)
  8.314   8.314 (0.946)   127   3292227                   48.12- 108.12    78.27
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                        CAS #: 106-93-4
  8.428   8.428 (0.959)   107   3301008 200.000   201.65  80.00- 120.00   100.00(A)
  8.428   8.428 (0.959)   109   3112835                   63.87- 123.87    94.30
-------------------------------------------------------------------------------
  165 Chlorobenzene                                  CAS #: 108-90-7
  8.808   8.808 (1.002)   112   5068588 200.000   202.30  80.00- 120.00   100.00(A)
  8.808   8.808 (1.002)   114   1619579                    2.38-  62.38    31.95
  8.808   8.808 (1.002)    77   2706061                   24.59-  84.59    53.39
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                  CAS #: 100-41-4
  8.865   8.865 (1.009)   106   2567344 200.000   194.84  80.00- 120.00   100.00
  8.865   8.865 (1.009)    91   7940717                  276.53- 336.53   309.30
-------------------------------------------------------------------------------
  169 m,p-Xylene                                     CAS #: 108-38-3
  8.958   8.958 (1.020)   106   3184176 200.000   198.69  80.00- 120.00   100.00
  8.958   8.958 (1.020)    91   6313772                  166.59- 226.59   198.29
-------------------------------------------------------------------------------
  171 o-Xylene                                       CAS #: 95-47-6
  9.302   9.302 (1.059)   106   3038864 200.000   197.53  80.00- 120.00   100.00
  9.302   9.302 (1.059)    91   6361386                  176.08- 236.08   209.33
-------------------------------------------------------------------------------
  172 Styrene                                        CAS #: 100-42-5
  9.317   9.317 (1.060)   104   5162741 200.000   224.02  80.00- 120.00   100.00(A)
  9.317   9.317 (1.060)    78   2485558                   17.58-  77.58    48.14
-------------------------------------------------------------------------------
  174 Bromoform                                      CAS #: 75-25-2
  9.510   9.510 (1.082)   173   5265079 200.000   207.94  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
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  174 Bromoform (continued)
  9.510   9.510 (1.082)   171   2701387                    21.36-  81.36    51.31
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.589   9.589 (1.091)   105   9462437 200.000   194.13  80.00- 120.00   100.00
  9.589   9.589 (1.091)   120   2606633                     0.00-  57.79    27.55
  9.589   9.589 (1.091)    51   1081514                     0.00-  41.33    11.43
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.897   9.897 (1.126)    83   4585438 200.000   187.46  80.00- 120.00   100.00
  9.897   9.897 (1.126)    85   2956612                    34.22-  94.22    64.48
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.940   9.940 (1.131)    91  10967466 200.000   191.36  80.00- 120.00   100.00
  9.940   9.940 (1.131)   120   2672585                     0.00-  54.34    24.37
  9.940   9.940 (1.131)   105    401264                     0.00-  33.54     3.66
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
 10.033  10.033 (1.142)   120   2960056 200.000   188.07  80.00- 120.00   100.00
 10.033  10.033 (1.142)   105   9462506                   279.66- 339.66   319.67
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.083  10.083 (1.148)   120   4103390 200.000   205.59  80.00- 120.00   100.00(A)
 10.083  10.083 (1.148)   105   8471296                   169.72- 229.72   206.45
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.405  10.405 (1.184)   120   3704298 200.000   201.66  80.00- 120.00   100.00(A)
 10.405  10.405 (1.184)   105   7970917                   185.64- 245.64   215.18
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.692  10.692 (1.217)   146   6179899 200.000   197.40  80.00- 120.00   100.00
 10.692  10.692 (1.217)   148   3944062                    34.23-  94.23    63.82
 10.692  10.692 (1.217)   111   2254665                     7.40-  67.40    36.48
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.771  10.771 (1.226)   146   6214967 200.000   195.73  80.00- 120.00   100.00
 10.771  10.771 (1.226)   148   3965414                    33.60-  93.60    63.80
 10.771  10.771 (1.226)   111   2199116                     4.87-  64.87    35.38
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.885  10.885 (1.239)    91   8023624 200.000   202.44  80.00- 120.00   100.00(A)
 10.885  10.885 (1.239)   126   1849305                     0.00-  53.22    23.05
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.100  11.100 (1.263)   146   5902795 200.000   197.80  80.00- 120.00   100.00
 11.100  11.100 (1.263)   148   3735008                    33.66-  93.66    63.28
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  214 1,2-Dichlorobenzene (continued)
 11.100  11.100 (1.263)   111   2248424                     7.92-  67.92    38.09
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.504  12.504 (1.423)   180   6175552 200.000   244.34  80.00- 120.00   100.00(A)
 12.504  12.504 (1.423)   182   5928142                   66.61- 126.61    95.99
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.597  12.597 (1.434)   225   5420698 200.000   246.39  80.00- 120.00   100.00(A)
 12.597  12.597 (1.434)   223   3410317                   32.66-  92.66    62.91
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.769  12.769 (1.453)   128   1125202 20.0000   25.955  80.00- 120.00   100.00(A)
 12.769  12.769 (1.453)   127    144265                    0.00-  42.82    12.82
-------------------------------------------------------------------------------
```

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: p020108.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kl
Method File: /chem/msdp.i/01feb16.b/p16q0201a.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 01-FEB-2016
Calibration Time: 16:31
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

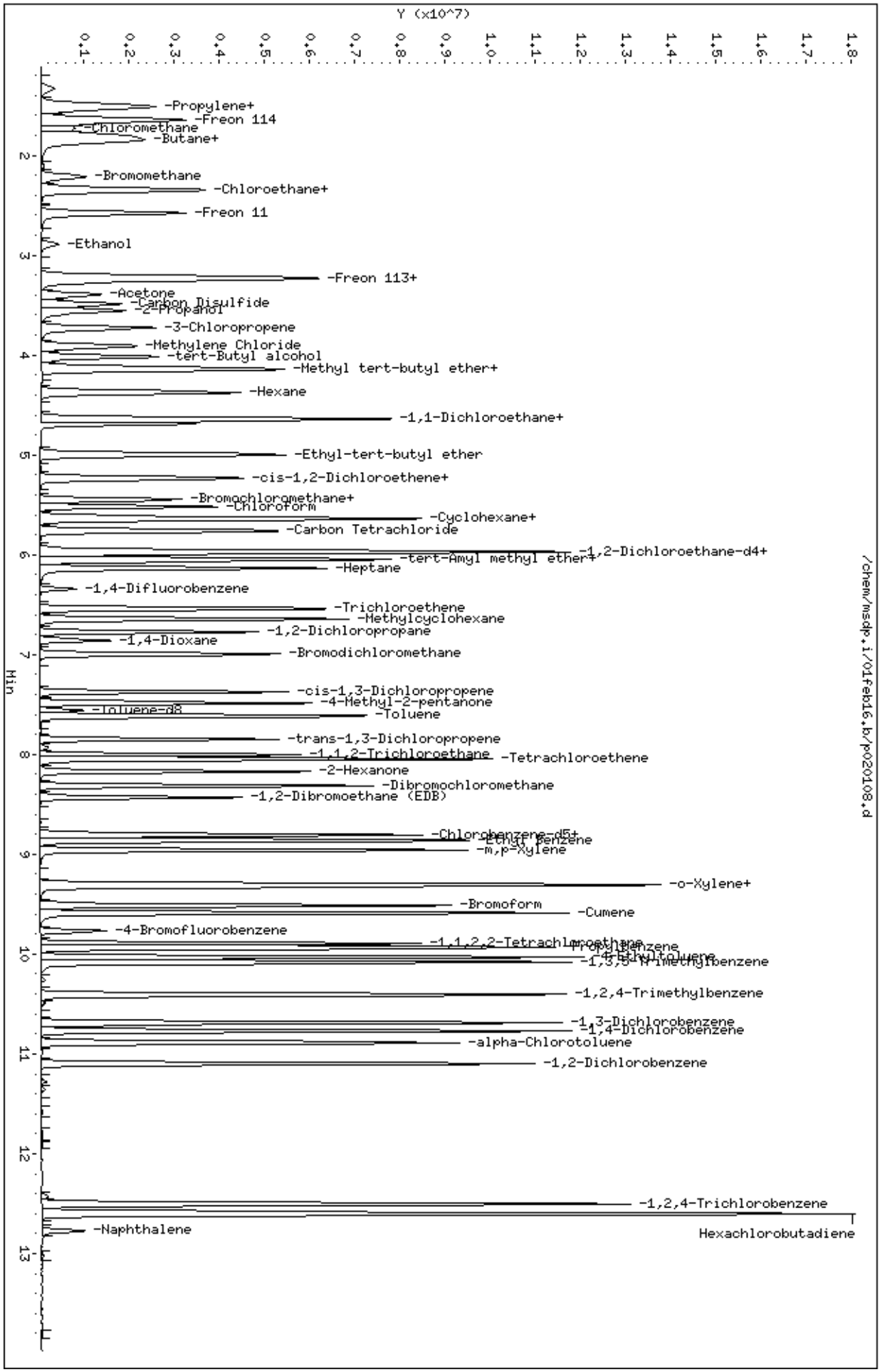
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	163500	98100	228900	172028	5.22
123 1,4-Difluorobenze	658886	395332	922440	684037	3.82
163 Chlorobenzene-d5	634233	380540	887926	665852	4.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.46	5.13	5.79	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.79	8.46	9.12	8.79	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/01feb16.b/p020108.d
Date : 01-FEB-2016 17:22
Client ID: Level 8
Sample Info: 200ml #2759-209
Column phase: RTX-624

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



MSD-P TO15 0.5ppbv Compounds

Report Date : 20-Dec-2015 14:02

Loaded 20mL #2759-140

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

5.0ppbv → 0.5ppbv

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:	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:	19:16	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:

$\bar{X} = 109$ pptv

$2\bar{X} = 220$ pptv = 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	481.22	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	683.60	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	452.88	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	518.18	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	623.30	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	600.46	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	393.96	528.36	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	486.62	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	557.14	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	492.93	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	533.58	40.66	121.89
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	623.63	647.48	395.93	588.91	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	568.91	530.37	639.45	563.06	517.88	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-Dichloroethane (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	121.99
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 Alighatic 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	2520.53	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: 12/22/16

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	2220.88	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
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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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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	2298.43	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	2418.62	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 Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 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	2231.59	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	2113.59	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	2084.18	2194.63	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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
S 146 Toluene-d8	25067.52	24504.48	24867.76	24523.80	24468.29	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	2130.67	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	24546.88	24042.08	24413.66	24325.19	23022.35	24222.85	521.94	1564.79
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Tropylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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-Dichloroethane (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 Ha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

5.0ppbv

To-15 5+20
5/26/15

Report Date : 27-May-2015 14:26

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 50mL #2736-26
5.0ppbv → 5.0ppbv

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

MDL verification #14052715
25mL #2736-26
5.0ppbv → 2.5ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14052621	14052622	14052623	14052624	14052625	14052626	14052627	14052628
INJ.DATE:	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015
INJ.TIME:	18:15	18:47	19:13	19:49	20:38	21:18	21:50	22:13

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPBV)
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	5618.14	5289.85	5204.37	5749.77	5214.18	5174.95	5527.45	5759.47	5442.27	249.76	748.79	5000
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	5603.94	4883.69	5114.02	5134.28	5894.06	5312.18	5680.65	6112.92	5456.97	424.85	1273.71	5000
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Reviewer 1 _____ Date: 5/27/15
Reviewer 2 _____ Date: _____

$\bar{x}$ = 1057 ppTV
$\bar{x}$ = 1.057 ppBV

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	6017.99	4396.21	6028.52	4999.48	5544.72	5582.61	5670.55	5372.99	5451.64	541.41	1623.14	5000
26 1,3-Butadiene	6932.67	6467.41	5836.82	6716.82	6207.35	6239.14	5991.12	6000.60	6298.99	380.58	1140.99	5000
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	6100.46	5630.10	6709.21	5417.98	5032.43	4597.85	4495.75	5355.74	5417.44	741.98	2224.44	5000
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 Freon 11	5618.36	5493.31	5512.85	5492.84	5454.55	5533.27	5360.81	5872.37	5542.29	151.73	454.90	5000
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
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	5017.33	4679.01	5555.86	5623.78	6187.47	6122.10	5590.92	5966.10	5592.82	526.67	1578.96	5000
50 1,1-Dichloroethene	3037.17	2671.36	5921.71	5806.60	6170.85	6237.64	5465.65	5987.67	5162.33	1447.14	4338.53	5000
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	5892.45	5259.69	5513.87	5775.38	5739.00	4804.60	5775.35	5611.89	5546.53	358.47	1074.70	5000
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/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	6819.30	5734.30	6004.21	6211.11	6590.07	6897.35	5799.99	6464.52	6315.11	447.42	1341.37	5000
67 2-Methyl-1-pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
72 Methyl tert-butyl ethe	4371.05	4264.24	4517.44	4162.59	4300.60	4616.16	4368.22	4553.87	4394.27	156.05	467.83	5000
73 trans-1,2-Dichloroethe	5502.69	5816.77	5791.85	5356.14	5419.11	4766.84	5208.87	5651.13	5439.18	343.99	1031.27	5000
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 Hexane	5144.82	5270.03	5575.02	4963.64	5028.67	4862.34	4746.31	5156.03	5068.36	290.82	871.87	5000
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 1,1-Dichloroethane	6058.59	5592.62	5616.67	5548.73	5548.69	5950.19	5659.64	5883.01	5732.27	200.79	601.98	5000
83 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
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Method File: /chem/msd14.i/26may15.b/14550526a.m
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Inst ID: msd14.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
	87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	88 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	91 cis-1,2-Dichloroethene	5769.89	5115.45	4840.81	5606.30	5021.02	5290.14	5495.23	5916.39	5381.90	378.31	1134.18	5000
	92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
*	98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
	99 Tetrahydrofuran	5600.56	5324.45	5312.25	4991.46	5440.23	5640.76	4780.42	5738.85	5353.62	329.85	988.89	5000
	100 Chloroform	5607.94	5573.15	5047.94	5621.63	5134.94	5511.37	5632.11	5910.24	5504.91	281.61	844.26	5000
	101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	102 Cyclohexane	5606.22	5115.27	5383.03	5072.45	4731.99	5048.74	4864.69	5332.12	5144.31	285.09	854.71	5000
	103 1,1,1-Trichloroethane	5207.46	5148.21	5265.45	4782.31	4949.26	5225.14	5933.91	5452.56	5245.54	344.51	1032.84	5000
	104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	106 Carbon Tetrachloride	4583.57	4664.57	4346.22	4794.37	4680.48	4884.46	4439.43	5244.24	4704.67	379.59	838.21	5000
	107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Method File: /chem/msd14.i/26may15.b/14550526a.m
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Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	5502.32	4936.16	5007.91	5126.65	4903.27	4836.14	5221.57	5474.32	5126.04	255.15	764.93	5000
114 1-Methoxy-3-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	5432.92	4970.68	5211.85	5342.72	4930.05	5053.12	5386.33	5902.75	5278.77	316.39	948.55	5000
$ 117 1,1-Dichloroethane-d4	406396	401602	407426	402070	405528	404761	402038	406614	404554	2332.72	6993.50	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
120 1,2-Dichloroethane	5573.90	5782.33	5321.65	5658.53	5896.11	6157.12	5518.58	6129.95	5754.77	294.89	884.09	5000
121 Heptane	4841.52	4539.90	4576.67	4911.41	6052.30	5552.42	5007.84	5380.09	5107.77	518.34	1556.97	5000
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	6432.90	5856.90	5548.40	5581.11	5620.51	6120.86	6304.15	6134.93	5949.97	345.71	1036.43	5000
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	5496.55	5568.87	5264.39	5449.16	5517.74	5640.84	5665.74	5255.62	5482.36	154.78	464.04	5000
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Method File: /chem/msd14.i/26may15.b/14550526a.m
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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 Bromodichloromethane	5047.09	5811.03	4849.47	4939.54	5519.75	4735.87	5269.40	5620.20	5224.04	393.13	1178.61	5000
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
144 cis-1,3-Dichloropropen	4882.37	4587.60	5390.13	4521.05	4403.13	4629.73	4435.26	5113.45	4745.34	382.91	1058.04	5000
145 4-Methyl-2-pentanone	5295.41	3035.92	4286.86	5533.41	4753.19	6212.56	3660.09	5048.80	4728.28	1033.46	3098.31	5000
$ 146 Toluene-d8	402747	398403	400769	403838	394757	402162	402123	395852	400091	3364.51	10086.79	
147 Toluene	5838.56	5462.74	5353.77	5322.72	5675.21	5373.62	5613.06	5792.73	5554.05	203.75	610.84	
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 trans-1,3-Dichloroprop	3559.38	3451.42	4273.77	3693.42	4095.40	3719.56	3805.38	3751.05	3793.67	270.20	810.06	5000
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,1,2-Trichloroethane	5496.19	5143.73	5933.40	5712.23	5242.79	4857.03	5525.69	5425.41	5417.31	336.13	1007.73	5000
156 Tetrachloroethene	5485.09	5698.02	4790.99	5340.38	5530.56	5492.01	5782.84	6284.21	5556.76	421.45	1263.52	5000
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Method File: /chem/msd14.i/26may15.b/14550526a.m
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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 Dibromochloromethane	5338.66	5074.18	5128.83	5434.13	5638.76	5498.07	5226.09	4793.36	5266.51	269.11	806.79	5000
161 1,2-Dibromoethane (EDB	5319.06	5076.03	5282.25	5587.42	5134.79	5111.27	4958.62	5319.34	5223.47	195.26	585.38	5000
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
165 Chlorobenzene	6082.54	5966.68	5772.07	5836.72	5224.21	5716.59	5745.78	6500.17	5855.59	361.88	1084.90	5000
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
167 Ethyl Benzene	5175.05	4899.48	4576.33	5444.93	4807.23	4851.21	5095.97	5634.91	5060.64	350.59	1051.08	5000
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
169 m,p-Xylene	5153.11	5147.13	5097.91	5056.68	5422.06	5147.08	5301.44	5404.68	5216.26	140.48	421.15	5000
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
171 o-Xylene	4833.05	4828.15	4728.68	4987.34	5326.50	4705.57	5007.72	5017.17	4929.27	201.71	604.73	5000
172 Styrene	5355.19	4916.99	4810.46	4780.82	4883.64	4984.73	5230.30	5034.10	4999.53	201.77	604.92	5000
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
174 Bromoform	5498.27	5330.27	5160.75	5458.57	5337.27	4768.93	5374.61	5524.96	5306.70	246.11	737.84	5000
175 Cumene	5239.95	4563.17	4967.48	4928.82	4882.81	4604.51	4782.91	5111.99	4885.20	232.66	697.52	5000
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 177 4-Bromofluorobenzene	399121	403303	397754	399576	401407	393596	406492	398747	400000	3847.15	11533.77	
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 1,1,2,2-Tetrachloroeth	5487.64	5185.15	5545.70	5477.45	5996.40	5333.73	5099.02	5719.49	5430.57	210.18	630.11	5000
182 Propylbenzene	5205.56	5465.08	5329.47	5503.57	5807.68	5299.16	5396.02	5523.51	5441.26	183.53	550.21	5000

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Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
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	5551.45	5213.57	5308.48	5252.60	4847.12	4837.16	5094.09	5443.09	5193.07	257.38	771.62	5000
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
190 1,3,5-Trimethylbenzene	5506.67	5212.41	5102.49	5092.44	5335.17	5032.74	4911.04	5342.23	5191.90	194.47	583.02	5000
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
196 1,2,4-Trimethylbenzene	5454.33	4804.41	4867.79	5218.98	4870.54	4899.11	5222.34	5250.72	5073.28	240.69	721.58	5000
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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Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 1,3-Dichlorobenzene	6277.32	5653.83	5529.71	5427.10	5339.38	5741.25	5118.14	5751.62	5604.79	346.28	1038.15	5000
209 1,4-Dichlorobenzene	6269.44	5335.95	5333.71	5063.12	6036.67	5402.23	5434.74	6054.08	5616.24	427.23	1310.82	5000
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	5480.78	4778.23	4523.89	4610.26	4708.99	4598.37	4403.58	4798.90	4737.87	327.63	982.23	5000
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
214 1,2-Dichlorobenzene	6625.17	5496.21	5400.17	6076.97	5097.51	5851.81	5558.63	6416.78	5815.41	526.81	1579.39	5000
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/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	RL (ppbv)
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
M 237 1,2-Dichloroethane (To	11272.58	10932.23	10632.66	10962.44	10440.12	10056.98	10704.11	11567.52	10821.08	473.82	1420.50	5000
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
M 239 Total Xylene	9986.16	9975.28	9826.59	10044.02	10748.56	9852.65	10309.15	10421.85	10145.53	320.48	960.81	5000
M 240 3 and 4-Ethyltoluene	5551.45	5213.57	5305.48	5252.60	4947.12	4837.16	5094.09	5443.09	5193.07	257.38	771.62	5000
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/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

20ppbv

TO-15 5+20
5/27/15

Report Date : 27-May-2015 13:33

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 5.0mL #2716-281
200ppbv → 20ppbv

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

MDL verification: #14052716
2.5mL #2716-281
200ppbv → 10ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14052706	14052707	14052708	14052709	14052710	14052711	14052712	14052713
INJ.DATE:	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015
INJ.TIME:	09:24	09:59	10:46	11:12	11:39	12:06	12:38	13:05

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9 Propylene	20913.41	20860.51	20241.36	20213.37	19853.50	23018.94	21884.77	20911.54	20987.17	1028.26	3082.71	20,000
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	21472.10	21565.29	21665.14	22267.57	20244.08	22866.72	21638.55	22052.36	21721.48	755.80	2265.89	20,000

Reviewer 1 [signature] Date: 5/27/15
Reviewer 2 Date:

MB 5/27/15
$\bar{X}$ = ~~3.0~~ 3032 ppTV
$\bar{X}$ = 3.032 ppbv

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	19698.33	17681.88	19633.05	18134.61	19623.05	19884.17	17208.26	20308.53	19046.48	1181.36	3541.72	20,000
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
30 Chloroethane	19595.95	18926.45	16904.86	21213.83	20070.43	20628.95	21139.48	20383.02	19857.87	1416.88	4247.82	20,000
31 Isopentane	18044.73	20009.91	19359.86	19082.61	19584.71	19963.38	19041.91	19906.78	19374.24	669.26	1976.46	20,000
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/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	22284.54	23551.53	22488.09	19048.74	19764.10	22623.64	19860.19	22745.77	21545.83	1703.33	5106.59	20,000
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	22033.28	19460.93	21530.89	18814.68	19471.53	21232.20	18053.60	16319.28	19613.30	1931.76	5791.41	20,000
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 2-Propanol	17594.24	18589.10	17338.85	17386.57	17928.39	18622.88	16415.02	16857.11	17616.52	814.97	2443.29	20,000
58 3-Chloropropene	17060.58	19374.95	16418.77	17773.49	17947.32	18253.59	17205.79	16561.49	17574.50	974.19	2920.63	20,000
59 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
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	17888.81	17858.23	15936.38	16588.05	17257.68	16973.13	16543.75	17548.69	17074.34	692.78	2076.97	20,000
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	18849.37	19338.54	18825.15	18607.01	18002.67	18681.33	19172.92	18810.43	18810.93	393.01	1178.24	20,000
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	RL (ppbv)
	87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	88 Ethyl-tert-butyl ether	17024.07	18499.04	16730.41	16871.13	17033.44	17501.55	17699.45	16979.55	17292.33	585.01	1753.86	20,000
	89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	92 2-Butanone	18239.18	16917.57	16841.42	16919.52	16204.73	18160.87	18057.39	13856.09	16887.10	1438.27	4311.95	20,000
	93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
*	98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	R.L. (PPTV)
111 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 117 1,2-Dichloroethane-d4	399048	403428	400525	407751	397947	404568	404724	399009	402125	3490.08	10463.27	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	17249.01	17802.24	17381.78	16793.77	17413.53	18079.15	17152.29	16940.20	17351.50	425.58	1275.89	20,000
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	18381.94	18473.97	17104.78	17459.86	18438.15	17855.33	17765.99	17843.69	17915.46	492.61	1476.83	20,000
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
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Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	16053.89	18103.07	18256.98	17903.67	18435.60	19667.92	17696.25	18396.67	18064.26	1004.39	3011.16	20,000
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	397676	394820	395652	394638	401172	394741	397632	396072	396550	2223.28	6680.39	
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	14950.76	15970.38	13747.10	12928.83	13719.67	16033.77	13275.79	13840.21	14183.32	1029.99	3087.91	20,000

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Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	RL (ppbv)
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	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	404082	413942	404123	406935	401603	402166	403997	401641	404811	4086.42	12251.10	
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
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Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	R.L (PPTV)
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	16650.28	17361.66	16890.07	16712.86	16112.75	18425.90	14586.51	17292.13	16754.02	1108.04	3321.91	20,000
227 Hexachlorobutadiene	16580.93	16104.57	13496.99	14866.69	13897.94	18463.77	15220.88	15922.54	15569.29	1581.84	4742.37	20,000
228 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Inst ID: msd14.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

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Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Naphthalene MDL (20ppbv)
6/4/15

Report Date : 04-Jun-2015 20:35

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Load 50mL of std # 2116-281
20ppbv → 20ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14060410	14060411	14060412	14060413	14060414	14060415	14060416	14060417
INJ.DATE:	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015
INJ.TIME:	16:59	17:24	17:45	18:09	18:27	18:54	19:12	19:31

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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

MDL Verification
Spike amt: 10ppbv
from std 2116-281
25mL → 20ppbv = 10ppbv
File # 14060419

Reviewer 1 Megan Dickerson Date: 6/4/15
Reviewer 2 Date:

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
S 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
S 117 1,2-Dichloroethane-d4	384912	381756	386844	388821	378286	389975	388532	383484	385326	4005.00	12006.99
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
I 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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	405804	400482	407828	403398	404410	403508	404226	407377	404629	2370.98	7108.18
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

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	400000	400000	400000	400000	400000	400000	400000	400000	400000	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	408607	413695	408099	405786	394062	410755	407709	407606	407040	5762.27	17275.28
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL PPTV	RL PPBV
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
208 1,2-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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
227 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
228 Naphthalene	22240.12	20834.79	25137.89	20402.69	22624.69	30467.05	22705.33	24455.91	23608.56	3200.97	9596.52	20,000	20.00
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.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 We	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
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#: 1602064B-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020804**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 10:35 AM**

Compound	%Recovery
Freon 12	96
Freon 114	96
Chloromethane	130
Vinyl Chloride	109
1,3-Butadiene	95
Bromomethane	114
Chloroethane	95
Freon 11	94
Ethanol	101
Freon 113	94
1,1-Dichloroethene	97
Acetone	88
2-Propanol	85
Carbon Disulfide	95
3-Chloropropene	92
Methylene Chloride	99
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	101
Hexane	92
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	95
Tetrahydrofuran	96
Chloroform	96
1,1,1-Trichloroethane	95
Cyclohexane	90
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	96
Benzene	97
1,2-Dichloroethane	100
Heptane	84
Trichloroethene	98
1,2-Dichloropropane	97
1,4-Dioxane	101
Bromodichloromethane	99
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	98
Toluene	96
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	99
Tetrachloroethene	98
2-Hexanone	105

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Client Sample ID: CCV

Lab ID#: 1602064B-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020804**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 10:35 AM**

Compound	%Recovery
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	99
Chlorobenzene	101
Ethyl Benzene	99
m,p-Xylene	99
o-Xylene	98
Styrene	109
Bromoform	100
Cumene	98
1,1,2,2-Tetrachloroethane	95
Propylbenzene	98
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	109
Naphthalene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 08-FEB-2016 10:35
Lab File ID: p020804.d Init. Cal. Date(s): 01-FEB-2016 01-FEB-2016
Analysis Type: AIR Init. Cal. Times: 14:10 17:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdp.i/08feb16.b/p16q0201a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 117 1,2-Dichloroethane-d4	1.47532	1.47362	0.010	0.11510	30.00000	Averaged
$ 146 Toluene-d8	0.99883	0.97634	0.010	2.25224	30.00000	Averaged
$ 177 4-Bromofluorobenzene	0.80627	0.77530	0.010	3.84106	30.00000	Averaged
9 Propylene	1.05449	0.96407	0.010	8.57466	30.00000	Averaged
11 Freon 12	2.78114	2.65920	0.010	4.38456	30.00000	Averaged
15 Freon 114	2.14877	2.07375	0.010	3.49152	30.00000	Averaged
17 Chloromethane	0.92625	1.20183	0.010	-29.75243	30.00000	Averaged
23 Butane	0.28484	0.23022	0.010	19.17637	30.00000	Averaged
25 Vinyl Chloride	1.23835	1.35089	0.010	-9.08784	30.00000	Averaged
26 1,3-Butadiene	1.02133	0.97467	0.010	4.56837	30.00000	Averaged
29 Bromomethane	0.71963	0.82287	0.010	-14.34565	30.00000	Averaged
30 Chloroethane	0.55654	0.53124	0.010	4.54672	30.00000	Averaged
31 Isopentane	1.56326	1.44834	0.010	7.35161	40.00000	Averaged
35 Freon 11	2.89832	2.73209	0.010	5.73561	30.00000	Averaged
42 Ethanol	0.47557	0.48181	0.010	-1.31175	30.00000	Averaged
49 Freon 113	2.31140	2.17230	0.010	6.01785	30.00000	Averaged
50 1,1-Dichloroethene	0.63887	0.62217	0.010	2.61355	30.00000	Averaged
52 Acetone	0.65908	0.58190	0.010	11.71033	30.00000	Averaged
56 Carbon Disulfide	2.85001	2.71910	0.010	4.59308	30.00000	Averaged
57 2-Propanol	2.81191	2.40417	0.010	14.50029	30.00000	Averaged
58 3-Chloropropene	0.47556	0.43675	0.010	8.16068	30.00000	Averaged
66 Methylene Chloride	1.55304	1.53467	0.010	1.18270	30.00000	Averaged
71 tert-Butyl alcohol	2.84984	2.66851	0.010	6.36255	30.00000	Averaged
72 Methyl tert-butyl ether	3.09794	2.86236	0.010	7.60440	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.63775	0.64158	0.010	-0.60010	30.00000	Averaged
78 Hexane	2.09372	1.93383	0.010	7.63644	30.00000	Averaged
82 1,1-Dichloroethane	2.12479	2.09345	0.010	1.47500	30.00000	Averaged
83 Isopropyl ether	4.62310	4.40549	0.010	4.70712	30.00000	Averaged
86 Vinyl Acetate	0.27943	0.27759	0.010	0.65920	40.00000	Averaged
88 Ethyl-tert-butyl ether	4.28811	4.12382	0.010	3.83120	40.00000	Averaged
91 cis-1,2-Dichloroethene	0.71375	0.67747	0.010	5.08238	30.00000	Averaged
92 2-Butanone	0.54074	0.50191	0.010	7.17932	30.00000	Averaged
99 Tetrahydrofuran	1.44623	1.39432	0.010	3.58890	30.00000	Averaged
100 Chloroform	2.21211	2.12983	0.010	3.71956	30.00000	Averaged
102 Cyclohexane	1.55425	1.40696	0.010	9.47673	30.00000	Averaged
103 1,1,1-Trichloroethane	2.52377	2.40801	0.010	4.58683	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 08-FEB-2016 10:35
Lab File ID: p020804.d Init. Cal. Date(s): 01-FEB-2016 01-FEB-2016
Analysis Type: AIR Init. Cal. Times: 14:10 17:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdp.i/08feb16.b/p16q0201a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
106 Carbon Tetrachloride	2.61905	2.58468	0.010	1.31256	30.00000	Averaged
113 2,2,4-Trimethylpentane	6.86465	6.60175	0.010	3.82973	30.00000	Averaged
116 Benzene	0.76192	0.73858	0.010	3.06337	30.00000	Averaged
119 tert-Amyl methyl ether	0.20593	0.19905	0.010	3.34125	30.00000	Averaged
120 1,2-Dichloroethane	0.42054	0.42087	0.010	-0.07777	30.00000	Averaged
121 Heptane	0.32936	0.27761	0.010	15.71352	30.00000	Averaged
125 Trichloroethene	0.36691	0.36140	0.010	1.50124	30.00000	Averaged
127 Methylcyclohexane	0.53911	0.49073	0.010	8.97435	30.00000	Averaged
132 1,2-Dichloropropane	0.35006	0.33946	0.010	3.02641	30.00000	Averaged
136 1,4-Dioxane	0.18973	0.19232	0.010	-1.36860	30.00000	Averaged
138 Bromodichloromethane	0.60480	0.60079	0.010	0.66182	30.00000	Averaged
144 cis-1,3-Dichloropropene	0.50792	0.50518	0.010	0.53877	30.00000	Averaged
145 4-Methyl-2-pentanone	0.31097	0.30595	0.010	1.61480	30.00000	Averaged
147 Toluene	1.06527	1.02598	0.010	3.68849	30.00000	Averaged
150 trans-1,3-Dichloropropene	0.48399	0.48767	0.010	-0.76034	30.00000	Averaged
155 1,1,2-Trichloroethane	0.37900	0.37484	0.010	1.09709	30.00000	Averaged
156 Tetrachloroethene	0.66143	0.64707	0.010	2.17131	30.00000	Averaged
158 2-Hexanone	0.42177	0.44171	0.010	-4.72718	30.00000	Averaged
160 Dibromochloromethane	0.77402	0.78103	0.010	-0.90523	30.00000	Averaged
161 1,2-Dibromoethane (EDB)	0.61462	0.61007	0.010	0.73966	30.00000	Averaged
165 Chlorobenzene	0.94071	0.94718	0.010	-0.68759	30.00000	Averaged
167 Ethyl Benzene	0.49472	0.49048	0.010	0.85766	30.00000	Averaged
169 m,p-Xylene	0.60171	0.59647	0.010	0.87127	30.00000	Averaged
171 o-Xylene	0.57762	0.56781	0.010	1.69781	30.00000	Averaged
172 Styrene	0.86529	0.94086	0.010	-8.73285	30.00000	Averaged
174 Bromoform	0.95064	0.95242	0.010	-0.18717	30.00000	Averaged
175 Cumene	1.83008	1.79601	0.010	1.86130	30.00000	Averaged
181 1,1,2,2-Tetrachloroethane	0.91840	0.87641	0.010	4.57188	30.00000	Averaged
182 Propylbenzene	2.15190	2.11638	0.010	1.65061	30.00000	Averaged
188 4-Ethyltoluene	0.59093	0.56733	0.010	3.99303	30.00000	Averaged
190 1,3,5-Trimethylbenzene	0.74937	0.76434	0.010	-1.99822	30.00000	Averaged
196 1,2,4-Trimethylbenzene	0.68967	0.69899	0.010	-1.35074	30.00000	Averaged
208 1,3-Dichlorobenzene	1.17544	1.18509	0.010	-0.82104	30.00000	Averaged
209 1,4-Dichlorobenzene	1.19217	1.17328	0.010	1.58461	30.00000	Averaged
212 alpha-Chlorotoluene	1.48810	1.49910	0.010	-0.73881	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 08-FEB-2016 10:35
Lab File ID: p020804.d Init. Cal. Date(s): 01-FEB-2016 01-FEB-2016
Analysis Type: AIR Init. Cal. Times: 14:10 17:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdp.i/08feb16.b/p16q0201a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
214 1,2-Dichlorobenzene	1.12048	1.12069	0.010	-0.01942	30.00000	Averaged
226 1,2,4-Trichlorobenzene	0.94896	1.04291	0.010	-9.90030	30.00000	Averaged
227 Hexachlorobutadiene	0.82602	0.89892	0.010	-8.82591	30.00000	Averaged
228 Naphthalene	1.62768	1.91627	0.010	-17.73012	40.00000	Averaged

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020804.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 08-FEB-2016 10:35
Operator : sab Inst ID: msdp.i
Smp Info : 50ml 2759-209
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 08-Feb-2016 11:39 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.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

Name	Value	Description
DF	1.00000	Dilution Factor

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	152495	25.0000		80.00- 120.00	100.00
5.449	5.449 (1.000)	128	113666			49.06- 109.06	74.54
5.449	5.449 (1.000)	49	231376			124.20- 184.20	151.73
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	608067	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	87270			0.00- 44.57	14.35
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.779	8.779 (1.000)	117	577195	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	297431			20.36- 80.36	51.53
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.099)	65	224720	25.0000	24.971	80.00- 120.00	100.00
5.986	5.986 (1.099)	67	123828			26.68- 86.68	55.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.555	7.555 (1.191)	98	593679	25.0000	24.437	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	63390			0.00- 40.62	10.68
7.555	7.555 (1.191)	100	387738			36.74- 96.74	65.31
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.112)	174	447502	25.0000	24.040	80.00- 120.00	100.00
9.761	9.761 (1.112)	95	427064			65.95- 125.95	95.43
9.761	9.761 (1.112)	176	442717			65.80- 125.80	98.93
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	294033	50.0000	45.713	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	190445			34.60- 94.60	64.77
1.479	1.479 (0.271)	39	217221			43.23- 103.23	73.88
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.277)	85	811029	50.0000	47.808	80.00- 120.00	100.00
1.507	1.507 (0.277)	87	264387			1.76- 61.76	32.60
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.300)	135	632472	50.0000	48.254	80.00- 120.00	100.00
1.633	1.633 (0.300)	137	203043			2.23- 62.23	32.10
17 Chloromethane					CAS #: 74-87-3		
1.717	1.717 (0.315)	50	366545	50.0000	64.876	80.00- 120.00	100.00
1.717	1.717 (0.315)	52	116486			0.00- 59.98	31.78
23 Butane					CAS #: 106-97-8		
1.787	1.787 (0.328)	58	70215	50.0000	40.412	80.00- 120.00	100.00
1.787	1.787 (0.328)	43	552986			783.10- 843.10	787.56
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.336)	62	412007	50.0000	54.544	80.00- 120.00	100.00
1.828	1.828 (0.336)	64	125875			5.16- 65.16	30.55
26 1,3-Butadiene					CAS #: 106-99-0		
1.842	1.842 (0.338)	54	297266	50.0000	47.716	80.00- 120.00	100.00
1.842	1.842 (0.338)	39	389214			81.92- 141.92	130.93
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	250967	50.0000	57.173	80.00- 120.00	100.00
2.204	2.204 (0.404)	96	237217			65.10- 125.10	94.52
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.425)	64	162023	50.0000	47.727	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	45896			0.00- 59.99	28.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	55895			5.85- 65.85	34.50
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.429)	43	441728	50.0000	46.324	80.00- 120.00	100.00
2.340	2.340 (0.429)	57	294820			36.22- 96.22	66.74
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.472)	101	833259	50.0000	47.132	80.00- 120.00	100.00
2.569	2.569 (0.472)	103	546390			34.50- 94.50	65.57
42 Ethanol					CAS #: 64-17-5		
2.877	2.877 (0.528)	45	146947	50.0000	50.656	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	33109			0.00- 50.77	22.53
2.877	2.877 (0.528)	46	57200			8.68- 68.68	38.93
49 Freon 113					CAS #: 76-13-1		
3.214	3.214 (0.590)	151	662530	50.0000	46.991	80.00- 120.00	100.00
3.214	3.214 (0.590)	153	418865			33.45- 93.45	63.22
3.214	3.214 (0.590)	101	689325			74.36- 134.36	104.04
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.595)	98	189756	50.0000	48.693	80.00- 120.00	100.00
3.242	3.242 (0.595)	96	297664			133.60- 193.60	156.87
3.242	3.242 (0.595)	61	601546			302.57- 362.57	317.01
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	177473	50.0000	44.145	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	626749			323.05- 383.05	353.15
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	829299	50.0000	47.703	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.652)	45	733248	50.0000	42.750	80.00- 120.00	100.00
3.550	3.550 (0.652)	43	145595			0.00- 49.72	19.86
3.550	3.550 (0.652)	59	25528			0.00- 33.36	3.48
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.683)	76	133204	50.0000	45.920	80.00- 120.00	100.00
3.722	3.722 (0.683)	41	513242			339.09- 399.09	385.31
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.716)	49	468060	50.0000	49.409	80.00- 120.00	100.00
3.901	3.901 (0.716)	84	259127			25.63- 85.63	55.36
3.901	3.901 (0.716)	51	143706			0.46- 60.46	30.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.009	4.009 (0.736)	59	813870	50.0000	46.819	80.00- 120.00	100.00
4.009	4.009 (0.736)	41	174913			0.00- 51.45	21.49
4.009	4.009 (0.736)	57	90588			0.00- 41.07	11.13
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.757)	73	872992	50.0000	46.198	80.00- 120.00	100.00
4.123	4.123 (0.757)	57	267021			0.00- 59.13	30.59
4.123	4.123 (0.757)	41	251093			0.00- 58.91	28.76
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.761)	98	195676	50.0000	50.300	80.00- 120.00	100.00
4.145	4.145 (0.761)	61	536263			242.97- 302.97	274.06
4.145	4.145 (0.761)	96	312731			127.33- 187.33	159.82
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.801)	57	589799	50.0000	46.182	80.00- 120.00	100.00
4.367	4.367 (0.801)	43	380131			34.30- 94.30	64.45
4.367	4.367 (0.801)	86	72925			0.00- 42.17	12.36
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.851)	63	638480	50.0000	49.262	80.00- 120.00	100.00
4.639	4.639 (0.851)	65	187376			0.09- 60.09	29.35
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.851)	45	1343629	50.0000	47.646	80.00- 120.00	100.00
4.639	4.639 (0.851)	87	281100			0.00- 51.39	20.92
4.639	4.639 (0.851)	59	148586			0.00- 40.68	11.06
86 Vinyl Acetate					CAS #: 108-05-4		
4.682	4.682 (0.859)	86	84662	50.0000	49.670	80.00- 120.00	100.00
4.682	4.682 (0.859)	43	1240865			1535.12-1595.12	1465.67
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.997	4.997 (0.917)	59	1257725	50.0000	48.084	80.00- 120.00	100.00
4.997	4.997 (0.917)	87	420295			4.09- 64.09	33.42
4.997	4.997 (0.917)	41	241919			0.00- 49.07	19.23
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.958)	98	206622	50.0000	47.459	80.00- 120.00	100.00
5.219	5.219 (0.958)	96	322091			125.21- 185.21	155.88
5.219	5.219 (0.958)	61	498536			211.41- 271.41	241.28
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.963)	72	153079	50.0000	46.410	80.00- 120.00	100.00
5.248	5.248 (0.963)	43	769650			452.15- 512.15	502.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.248	5.248 (0.963)	57	59744			9.54- 69.54	39.03
99 Tetrahydrofuran					CAS #: 109-99-9		
5.441	5.441 (0.999)	42	425255	50.0000	48.206	80.00- 120.00	100.00
5.441	5.441 (0.999)	71	137397			2.09- 62.09	32.31
5.441	5.441 (0.999)	72	137793			3.61- 63.61	32.40
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.012)	83	649576	50.0000	48.140	80.00- 120.00	100.00
5.513	5.513 (1.012)	85	423736			35.60- 95.60	65.23
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.033)	84	429109	50.0000	45.262	80.00- 120.00	100.00
5.628	5.628 (1.033)	56	636965			115.43- 175.43	148.44
5.628	5.628 (1.033)	41	361839			53.65- 113.65	84.32
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.035)	97	734419	50.0000	47.706	80.00- 120.00	100.00
5.642	5.642 (1.035)	99	460421			33.21- 93.21	62.69
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.057)	119	788301	50.0000	49.344	80.00- 120.00	100.00
5.757	5.757 (1.057)	117	813760			76.21- 136.21	103.23
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.095)	57	2013469	50.0000	48.085	80.00- 120.00	100.00
5.964	5.964 (1.095)	56	636049			1.10- 61.10	31.59
5.964	5.964 (1.095)	41	539776			0.00- 57.08	26.81
116 Benzene					CAS #: 71-43-2		
5.972	5.972 (0.941)	78	898214	50.0000	48.468	80.00- 120.00	100.00
5.972	5.972 (0.941)	77	210314			0.00- 53.91	23.41
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.043	6.043 (0.953)	87	242069	50.0000	48.329	80.00- 120.00	100.00
6.043	6.043 (0.953)	73	990351			386.56- 446.56	409.12
6.043	6.043 (0.953)	55	304856			96.75- 156.75	125.94
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.058	6.058 (0.955)	62	511830	50.0000	50.039	80.00- 120.00	100.00
6.058	6.058 (0.955)	64	158098			0.29- 60.29	30.89
121 Heptane					CAS #: 142-82-5		
6.129	6.129 (0.966)	71	337605	50.0000	42.143	80.00- 120.00	100.00
6.129	6.129 (0.966)	43	703870			172.43- 232.43	208.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.129	6.129 (0.966)	57	399712			85.51- 145.51	118.40
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	439513	50.0000	49.249	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	493476			79.80- 139.80	112.28
6.537	6.537 (1.030)	97	281952			33.64- 93.64	64.15
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	596794	50.0000	45.513	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	286665			16.94- 76.94	48.03
6.645	6.645 (1.047)	55	604128			65.75- 125.75	101.23
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	412831	50.0000	48.487	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	294486			39.62- 99.62	71.33
6.767	6.767 (1.067)	41	252958			30.53- 90.53	61.27
136 1,4-Dioxane					CAS #: 123-91-1		
6.853	6.853 (1.080)	88	233891	50.0000	50.684	80.00- 120.00	100.00
6.853	6.853 (1.080)	58	192384			52.00- 112.00	82.25
6.853	6.853 (1.080)	57	64854			0.00- 56.29	27.73
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	730647	50.0000	49.669	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	466502			34.30- 94.30	63.85
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.161)	75	614366	50.0000	49.731	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	192693			2.71- 62.71	31.36
7.368	7.368 (1.161)	39	403288			35.07- 95.07	65.64
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	372072	50.0000	49.192	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	977010			230.95- 290.95	262.59
7.483	7.483 (1.180)	85	139730			7.98- 67.98	37.55
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	1247726	50.0000	48.156	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	698770			27.38- 87.38	56.00
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.894)	75	562962	50.0000	50.380	80.00- 120.00	100.00
7.848	7.848 (0.894)	77	184458			2.10- 62.10	32.77
7.848	7.848 (0.894)	39	348211			30.98- 90.98	61.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.999	7.999 (0.911)	97	432713	50.0000	49.451	80.00- 120.00	100.00
7.999	7.999 (0.911)	99	262123			31.34- 91.34	60.58
7.999	7.999 (0.911)	83	372163			57.20- 117.20	86.01
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.917)	166	746966	50.0000	48.914	80.00- 120.00	100.00
8.049	8.049 (0.917)	129	490151			35.33- 95.33	65.62
8.049	8.049 (0.917)	131	482122			35.36- 95.36	64.54
158 2-Hexanone					CAS #: 591-78-6		
8.171	8.171 (0.931)	58	509903	50.0000	52.364	80.00- 120.00	100.00
8.171	8.171 (0.931)	43	956465			156.39- 216.39	187.58
8.171	8.171 (0.931)	100	91178			0.00- 48.05	17.88
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.947)	129	901611	50.0000	50.453	80.00- 120.00	100.00
8.314	8.314 (0.947)	127	700599			48.12- 108.12	77.71
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.960)	107	704264	50.0000	49.630	80.00- 120.00	100.00
8.428	8.428 (0.960)	109	670096			63.87- 123.87	95.15
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.003)	112	1093418	50.0000	50.344	80.00- 120.00	100.00
8.808	8.808 (1.003)	114	352089			2.38- 62.38	32.20
8.808	8.808 (1.003)	77	575519			24.59- 84.59	52.63
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.009)	106	566207	50.0000	49.571	80.00- 120.00	100.00
8.858	8.858 (1.009)	91	1705948			276.53- 336.53	301.29
169 m,p-Xylene					CAS #: 108-38-3		
8.959	8.959 (1.020)	106	688559	50.0000	49.564	80.00- 120.00	100.00
8.959	8.959 (1.020)	91	1349439			166.59- 226.59	195.98
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.059)	106	655474	50.0000	49.151	80.00- 120.00	100.00
9.295	9.295 (1.059)	91	1361249			176.08- 236.08	207.67
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.061)	104	1086117	50.0000	54.366	80.00- 120.00	100.00
9.310	9.310 (1.060)	78	509055			17.58- 77.58	46.87
174 Bromoform					CAS #: 75-25-2		
9.503	9.503 (1.082)	173	1099467	50.0000	50.094	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.503	9.503 (1.082)	171	571287			21.36- 81.36	51.96
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.091)	105	2073300	50.0000	49.069	80.00- 120.00	100.00
9.582	9.582 (1.091)	120	568960			0.00- 57.79	27.44
9.582	9.582 (1.091)	51	231593			0.00- 41.33	11.17
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.883	9.883 (1.126)	83	1011724	50.0000	47.714	80.00- 120.00	100.00
9.883	9.883 (1.126)	85	657076			34.22- 94.22	64.95
182 Propylbenzene					CAS #: 103-65-1		
9.926	9.926 (1.131)	91	2443129	50.0000	49.175	80.00- 120.00	100.00
9.926	9.926 (1.131)	120	599104			0.00- 54.34	24.52
9.926	9.926 (1.131)	105	89224			0.00- 33.54	3.65
188 4-Ethyltoluene					CAS #: 622-96-8		
10.019	10.019 (1.141)	120	654921	50.0000	48.003	80.00- 120.00	100.00
10.019	10.019 (1.141)	105	2085753			279.66- 339.66	318.47
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.147)	120	882349	50.0000	50.999	80.00- 120.00	100.00
10.069	10.069 (1.147)	105	1819938			169.72- 229.72	206.26
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.391	10.391 (1.184)	120	806904	50.0000	50.675	80.00- 120.00	100.00
10.384	10.384 (1.183)	105	1727115			185.64- 245.64	214.04
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.671	10.671 (1.215)	146	1368053	50.0000	50.410	80.00- 120.00	100.00
10.671	10.671 (1.215)	148	863209			34.23- 94.23	63.10
10.663	10.663 (1.215)	111	497311			7.40- 67.40	36.35
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.224)	146	1354426	50.0000	49.208	80.00- 120.00	100.00
10.749	10.749 (1.224)	148	862146			33.60- 93.60	63.65
10.742	10.742 (1.224)	111	476928			4.87- 64.87	35.21
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.864 (1.237)	91	1730544	50.0000	50.369	80.00- 120.00	100.00
10.864	10.864 (1.237)	126	403403			0.00- 53.22	23.31
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.072	11.072 (1.261)	146	1293718	50.0000	50.010	80.00- 120.00	100.00
11.072	11.072 (1.261)	148	815906			33.66- 93.66	63.07

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

  214 1,2-Dichlorobenzene (continued)
 11.072  11.072 (1.261)   111    487066                     7.92-  67.92    37.65
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.461  12.461 (1.419)   180   1203929 50.0000   54.950  80.00- 120.00   100.00
 12.468  12.468 (1.420)   182   1154503                   66.61- 126.61    95.89
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.562  12.562 (1.431)   225   1037706 50.0000   54.413  80.00- 120.00   100.00
 12.562  12.562 (1.431)   223    660663                   32.66-  92.66    63.67
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.726  12.726 (1.450)   128    221212 5.00000    5.886  80.00- 120.00   100.00
 12.726  12.726 (1.450)   127     29199                    0.00-  42.82    13.20
-------------------------------------------------------------------------------
```

Report Date: 08-Feb-2016 11:39

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020804.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-FEB-2016
Calibration Time: 10:35
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	152495	0.00
123 1,4-Difluorobenze	608067	364840	851294	608067	0.00
163 Chlorobenzene-d5	577195	346317	808073	577195	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/08feb16.b/p020804.d

Date : 08-FEB-2016 10:35

Client ID: CCV

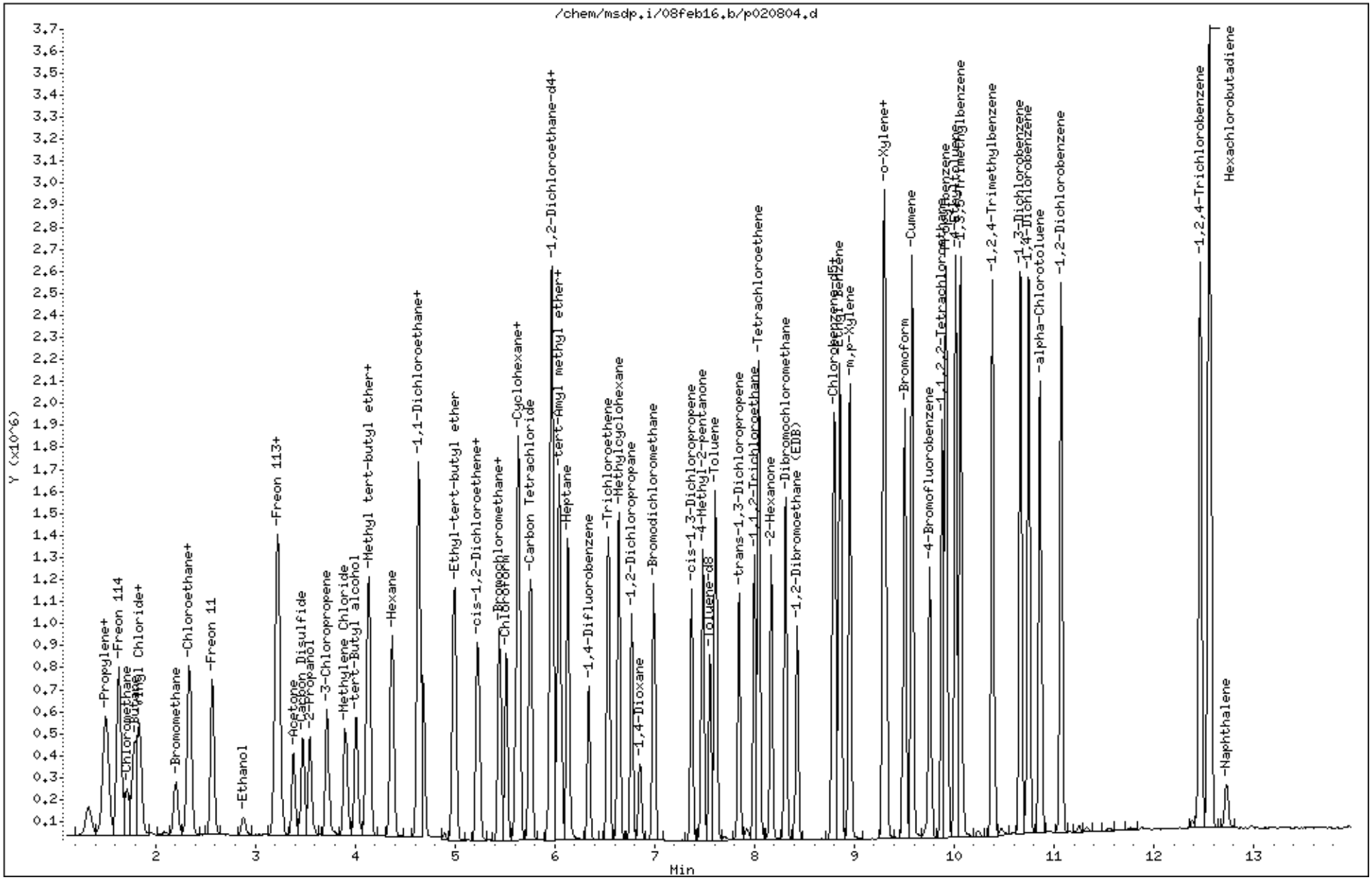
Sample Info: 50ml 2759-209

Column phase: RTX-624

Instrument: msdp.i

Operator: sab

Column diameter: 0.25



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Client Sample ID: CCV

Lab ID#: 1602064B-20B

EPA METHOD TO-15 GC/MS

File Name:	**14021502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 10:38 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	89
Chloromethane	91
Vinyl Chloride	90
1,3-Butadiene	87
Bromomethane	80
Chloroethane	92
Freon 11	89
Ethanol	103
Freon 113	86
1,1-Dichloroethene	87
Acetone	97
2-Propanol	98
Carbon Disulfide	88
3-Chloropropene	85
Methylene Chloride	87
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	90
Hexane	90
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	89
Tetrahydrofuran	103
Chloroform	91
1,1,1-Trichloroethane	90
Cyclohexane	86
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	88
Benzene	89
1,2-Dichloroethane	91
Heptane	86
Trichloroethene	81
1,2-Dichloropropane	90
1,4-Dioxane	82
Bromodichloromethane	89
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	91
Toluene	84
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	87
Tetrachloroethene	86
2-Hexanone	86

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Client Sample ID: CCV

Lab ID#: 1602064B-20B

EPA METHOD TO-15 GC/MS

File Name:	**14021502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 10:38 AM**	

Compound	**%Recovery**
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	90
Chlorobenzene	86
Ethyl Benzene	85
m,p-Xylene	88
o-Xylene	87
Styrene	84
Bromoform	85
Cumene	86
1,1,2,2-Tetrachloroethane	88
Propylbenzene	83
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	82
1,4-Dichlorobenzene	79
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	79
1,2,4-Trichlorobenzene	67 Q
Hexachlorobutadiene	76
Naphthalene	79

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Report Date: 15-Feb-2016 11:04

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 15-FEB-2016 10:38
Lab File ID: 14021502.d Init. Cal. Date(s): 12-FEB-2016 12-FEB-2016
Analysis Type: AIR Init. Cal. Times: 12:35 15:25
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd14.i/15feb16.b/14650212a.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 117 1,2-Dichloroethane-d4	1.81913	1.80186	0.010	0.94928	30.00000	Averaged	
$ 146 Toluene-d8	1.10779	1.09780	0.010	0.90187	30.00000	Averaged	
$ 177 4-Bromofluorobenzene	0.50151	0.51833	0.010	-3.35273	30.00000	Averaged	
9 Propylene	1.36856	1.26503	0.010	7.56473	30.00000	Averaged	
11 Freon 12	4.81520	4.06862	0.010	15.50468	30.00000	Averaged	
15 Freon 114	2.68478	2.39077	0.010	10.95113	30.00000	Averaged	
17 Chloromethane	2.09929	1.91964	0.010	8.55807	30.00000	Averaged	
23 Butane	0.50703	0.45611	0.010	10.04393	40.00000	Averaged	
25 Vinyl Chloride	2.21151	1.99711	0.010	9.69488	30.00000	Averaged	
26 1,3-Butadiene	1.73290	1.50747	0.010	13.00920	30.00000	Averaged	
29 Bromomethane	1.22569	0.98387	0.010	19.72902	30.00000	Averaged	
30 Chloroethane	0.99934	0.92524	0.010	7.41488	30.00000	Averaged	
31 Isopentane	2.00539	1.85522	0.010	7.48860	40.00000	Averaged	
35 Freon 11	4.32399	3.84660	0.010	11.04034	30.00000	Averaged	
42 Ethanol	0.99722	1.03169	0.010	-3.45592	30.00000	Averaged	
49 Freon 113	2.43330	2.10001	0.010	13.69707	30.00000	Averaged	
50 1,1-Dichloroethene	3.77193	3.27493	0.010	13.17626	30.00000	Averaged	
52 Acetone	1.06614	1.03169	0.010	3.23167	30.00000	Averaged	
56 Carbon Disulfide	5.41556	4.79333	0.010	11.48952	30.00000	Averaged	
57 2-Propanol	2.73189	2.68406	0.010	1.75084	30.00000	Averaged	
58 3-Chloropropene	0.72289	0.61359	0.010	15.11979	30.00000	Averaged	
66 Methylene Chloride	2.46841	2.15334	0.010	12.76414	30.00000	Averaged	
71 tert-Butyl alcohol	1.13053	1.08618	0.010	3.92306	40.00000	Averaged	
72 Methyl tert-butyl ether	1.64152	1.72036	0.010	-4.80333	30.00000	Averaged	
73 trans-1,2-Dichloroethene	1.82223	1.63299	0.010	10.38473	30.00000	Averaged	
78 Hexane	3.42239	3.08096	0.010	9.97623	30.00000	Averaged	
83 Isopropyl ether	5.72562	5.37753	0.010	6.07952	40.00000	Averaged	
82 1,1-Dichloroethane	3.84145	3.50782	0.010	8.68484	30.00000	Averaged	
86 Vinyl Acetate	++++	0.47936	0.010	++++	30.00000	Averaged	<-
88 Ethyl-tert-butyl ether	2.25102	2.10171	0.010	6.63326	40.00000	Averaged	
91 cis-1,2-Dichloroethene	2.96397	2.65240	0.010	10.51189	30.00000	Averaged	
92 2-Butanone	0.80642	0.74060	0.010	8.16223	30.00000	Averaged	
99 Tetrahydrofuran	1.89248	1.95260	0.010	-3.17717	30.00000	Averaged	
100 Chloroform	4.02291	3.66608	0.010	8.87003	30.00000	Averaged	
102 Cyclohexane	2.63976	2.26172	0.010	14.32098	30.00000	Averaged	
103 1,1,1-Trichloroethane	3.42980	3.07181	0.010	10.43767	30.00000	Averaged	

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 15-FEB-2016 10:38
Lab File ID: 14021502.d Init. Cal. Date(s): 12-FEB-2016 12-FEB-2016
Analysis Type: AIR Init. Cal. Times: 12:35 15:25
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd14.i/15feb16.b/14650212a.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
106 Carbon Tetrachloride	2.98228	2.70227	0.010	9.38915	30.00000	Averaged
113 2,2,4-Trimethylpentane	10.83671	9.59967	0.010	11.41528	30.00000	Averaged
116 Benzene	1.28685	1.14861	0.010	10.74280	30.00000	Averaged
119 tert-Amyl methyl ether	1.70831	1.57767	0.010	7.64736	40.00000	Averaged
120 1,2-Dichloroethane	0.62672	0.56928	0.010	9.16595	30.00000	Averaged
121 Heptane	0.44244	0.38203	0.010	13.65259	30.00000	Averaged
125 Trichloroethene	0.62619	0.50531	0.010	19.30398	30.00000	Averaged
127 Methylcyclohexane	0.78637	0.66608	0.010	15.29642	40.00000	Averaged
132 1,2-Dichloropropane	0.53977	0.48322	0.010	10.47694	30.00000	Averaged
136 1,4-Dioxane	0.27691	0.22616	0.010	18.32798	30.00000	Averaged
138 Bromodichloromethane	0.93779	0.83205	0.010	11.27589	30.00000	Averaged
144 cis-1,3-Dichloropropene	0.58266	0.53286	0.010	8.54712	30.00000	Averaged
145 4-Methyl-2-pentanone	0.12969	0.11823	0.010	8.83693	30.00000	Averaged
147 Toluene	1.50521	1.26252	0.010	16.12318	30.00000	Averaged
150 trans-1,3-Dichloropropene	0.45765	0.44657	0.010	2.42191	30.00000	Averaged
155 1,1,2-Trichloroethane	0.63290	0.55037	0.010	13.03925	30.00000	Averaged
156 Tetrachloroethene	0.64026	0.55360	0.010	13.53625	30.00000	Averaged
158 2-Hexanone	0.59925	0.51338	0.010	14.32914	30.00000	Averaged
160 Dibromochloromethane	0.95899	0.82766	0.010	13.69471	30.00000	Averaged
161 1,2-Dibromoethane (EDB)	0.86314	0.77537	0.010	10.16832	30.00000	Averaged
165 Chlorobenzene	1.36276	1.16807	0.010	14.28607	30.00000	Averaged
167 Ethyl Benzene	0.67042	0.57077	0.010	14.86358	30.00000	Averaged
169 m,p-Xylene	0.80210	0.70225	0.010	12.44779	30.00000	Averaged
171 o-Xylene	0.74218	0.64527	0.010	13.05713	30.00000	Averaged
172 Styrene	1.15943	0.97373	0.010	16.01663	30.00000	Averaged
174 Bromoform	0.76916	0.65602	0.010	14.71024	30.00000	Averaged
175 Cumene	2.31259	1.99245	0.010	13.84359	30.00000	Averaged
181 1,1,2,2-Tetrachloroethane	1.34582	1.18777	0.010	11.74383	30.00000	Averaged
182 Propylbenzene	3.19280	2.65915	0.010	16.71432	30.00000	Averaged
188 4-Ethyltoluene	2.39404	1.98109	0.010	17.24922	30.00000	Averaged
190 1,3,5-Trimethylbenzene	2.06385	1.74475	0.010	15.46166	30.00000	Averaged
196 1,2,4-Trimethylbenzene	1.87570	1.54033	0.010	17.87935	30.00000	Averaged
208 1,3-Dichlorobenzene	1.20644	0.99361	0.010	17.64148	30.00000	Averaged
209 1,4-Dichlorobenzene	1.26737	1.00716	0.010	20.53211	30.00000	Averaged
212 alpha-Chlorotoluene	0.97442	0.93038	0.010	4.51951	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 15-FEB-2016 10:38
Lab File ID: 14021502.d Init. Cal. Date(s): 12-FEB-2016 12-FEB-2016
Analysis Type: AIR Init. Cal. Times: 12:35 15:25
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msd14.i/15feb16.b/14650212a.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
214 1,2-Dichlorobenzene	1.21279	0.95520	0.010	21.23954	30.00000	Averaged	
226 1,2,4-Trichlorobenzene	0.74346	0.49540	0.010	33.36566	30.00000	Averaged	<-
227 Hexachlorobutadiene	0.52972	0.40180	0.010	24.15007	30.00000	Averaged	
228 Naphthalene	1.67395	1.32547	0.010	20.81805	40.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 11.68628
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15feb16.b/14021502.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 15-FEB-2016 10:38
Operator : js Inst ID: msd14.i
Smp Info : 25mL #2759-175
Misc Info : 100ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/15feb16.b/14650212a.m
Meth Date : 15-Feb-2016 11:04 jscarbro Quant Type: ISTD
Cal Date : 12-FEB-2016 14:28 Cal File: 14021213.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	134188	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	101083			46.39- 106.39	75.33
4.739	4.739 (1.000)	49	248247			150.71- 210.71	185.00
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	615834	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	108831			0.00- 47.48	17.67
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	494859	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	339329			37.59- 97.59	68.57
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	241788	400.000	396.20	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	129185			24.07- 84.07	53.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	676064	400.000	396.39	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	78908			0.00- 41.71	11.67
7.621	7.621 (1.304)	100	428683			32.73- 92.73	63.41
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	256499	400.000	413.41	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	436207			142.84- 202.84	170.06
10.937	10.937 (1.114)	176	242541			67.70- 127.70	94.56
9 Propylene					CAS #: 115-07-1		
1.227	1.227 (0.259)	41	42438	100.000	92.435	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	28586			37.96- 97.96	67.36
1.241	1.241 (0.262)	39	28541			36.73- 96.73	67.25
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	136490	100.000	84.495	80.00- 120.00	100.00
1.255	1.255 (0.265)	87	45985			1.63- 61.63	33.69
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	80203	100.000	89.049	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	27648			2.50- 62.50	34.47
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	64398	100.000	91.442	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	20336			1.39- 61.39	31.58
23 Butane					CAS #: 106-97-8		
1.465	1.465 (0.309)	58	15301	100.000	89.956	80.00- 120.00	100.00
1.465	1.465 (0.309)	43	84398			511.27- 571.27	551.58
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	66997	100.000	90.305	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	19717			0.78- 60.78	29.43
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	50571	100.000	86.991	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	39209			41.76- 101.76	77.53
29 Bromomethane					CAS #: 74-83-9		
1.815	1.815 (0.383)	94	33006	100.000	80.271	80.00- 120.00	100.00
1.815	1.815 (0.383)	96	31278			66.30- 126.30	94.76
1.815	1.815 (0.383)	79	5639			0.00- 44.41	17.08
30 Chloroethane					CAS #: 75-00-3		
1.885	1.885 (0.398)	64	31039	100.000	92.585	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.885	1.885 (0.398)	66	8957			2.16- 62.16	28.86
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	62237	100.000	92.511	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	52593			52.83- 112.83	84.50
1.912	1.912 (0.404)	72	5382			0.00- 38.88	8.65
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	129042	100.000	88.960	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	81981			34.93- 94.93	63.53
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	34610	100.000	103.46	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	7662			0.00- 52.67	22.14
2.360	2.360 (0.498)	46	15017			12.37- 72.37	43.39
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	70449	100.000	86.303	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	45063			34.36- 94.36	63.97
2.584	2.584 (0.545)	101	110370			119.53- 179.53	156.67
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	109864	100.000	86.824	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	56828			21.57- 81.57	51.73
2.612	2.612 (0.551)	98	35988			1.98- 61.98	32.76
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	34610	100.000	96.768	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	87250			233.69- 293.69	252.09
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	160802	100.000	88.510	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	90042	100.000	98.249	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	18792			0.00- 53.85	20.87
2.878	2.878 (0.607)	59	3896			0.00- 34.34	4.33
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	20584	100.000	84.880	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	56162			227.89- 287.89	272.84
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	72238	100.000	87.236	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	49741			40.30- 100.30	68.86

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

   66 Methylene Chloride (continued)
  3.158   3.158 (0.666)    51     23140                     1.79-  61.79    32.03
-------------------------------------------------------------------------------
   71 tert-Butyl alcohol                            CAS #: 75-65-0
  3.284   3.284 (0.693)    59     36438 100.000   96.077  80.00- 120.00   100.00
  3.270   3.270 (0.690)    41      8124                     0.00-  55.27    22.30
  3.270   3.270 (0.690)    57      3726                     0.00-  42.40    10.23
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  3.354   3.354 (0.708)    73     57713 100.000   104.80  80.00- 120.00   100.00
  3.354   3.354 (0.708)    57     16864                     0.00-  58.10    29.22
  3.354   3.354 (0.708)    41     15361                     0.00-  57.12    26.62
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  3.382   3.382 (0.714)    96     54782 100.000   89.615  80.00- 120.00   100.00
  3.382   3.382 (0.714)    61     91441                  142.56- 202.56   166.92
  3.382   3.382 (0.714)    98     36770                   36.64-  96.64    67.12
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  3.578   3.578 (0.755)    57    103357 100.000   90.024  80.00- 120.00   100.00
  3.578   3.578 (0.755)    43     55045                   21.59-  81.59    53.26
  3.578   3.578 (0.755)    86     16081                    0.00-  46.40    15.56
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  3.843   3.843 (0.811)    45    180400 100.000   93.920  80.00- 120.00   100.00
  3.843   3.843 (0.811)    87     44380                    0.00-  54.66    24.60
  3.843   3.843 (0.811)    59     25190                    0.00-  43.86    13.96
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  3.857   3.857 (0.814)    63    117677 100.000   91.315  80.00- 120.00   100.00
  3.857   3.857 (0.814)    65     34399                    0.00-  59.48    29.23
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  3.578   3.578 (0.755)    86     16081 100.000           80.00- 120.00   100.00(a)
  3.578   3.578 (0.755)    43     55045                  284.51- 344.51   342.30
  3.578   3.578 (0.755)    42     28628                  138.34- 198.34   178.02
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.221   4.221 (0.891)    59     70506 100.000   93.367  80.00- 120.00   100.00
  4.221   4.221 (0.891)    87     22859                    3.44-  63.44    32.42
  4.221   4.221 (0.891)    41     13734                    0.00-  50.09    19.48
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  4.487   4.487 (0.947)    61     88980 100.000   89.488  80.00- 120.00   100.00
  4.487   4.487 (0.947)    96     56969                   32.15-  92.15    64.02
  4.487   4.487 (0.947)    98     36326                   10.13-  70.13    40.82
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	24845	100.000	91.838	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	99369			379.79- 439.79	399.96
4.515	4.515 (0.953)	57	9053			6.25- 66.25	36.44
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	65504	100.000	103.18	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	26050			11.50- 71.50	39.77
4.725	4.725 (0.997)	72	27261			12.84- 72.84	41.62
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	122986	100.000	91.130	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	75399			32.14- 92.14	61.31
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	75874	100.000	85.679	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	107779			99.79- 159.79	142.05
4.921	4.921 (1.038)	41	45895			28.40- 88.40	60.49
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	103050	100.000	89.562	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	65966			36.51- 96.51	64.01
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.075	5.075 (1.071)	119	90653	100.000	90.611	80.00- 120.00	100.00
5.075	5.075 (1.071)	117	93166			75.71- 135.71	102.77
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	322040	100.000	88.585	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	114089			4.19- 64.19	35.43
5.326	5.326 (1.124)	41	69577			0.00- 50.55	21.61
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	176838	100.000	89.257	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	42741			0.00- 53.33	24.17
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	52926	100.000	92.353	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	12381			0.00- 51.83	23.39
5.452	5.452 (1.151)	55	22131			12.08- 72.08	41.81
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	87645	100.000	90.834	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	28442			1.49- 61.49	32.45
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	58817	100.000	86.347	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
5.564	5.564 (0.952)	43	100726			128.82- 188.82	171.25
5.564	5.564 (0.952)	100	18810			0.00- 59.89	31.98
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	77797	100.000	80.696	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	67758			53.70- 113.70	87.10
6.082	6.082 (1.041)	97	49794			34.03- 94.03	64.01
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	102549	100.000	84.704	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	50322			15.61- 75.61	49.07
6.194	6.194 (1.060)	55	97127			65.29- 125.29	94.71
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	74396	100.000	89.523	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	54309			44.72- 104.72	73.00
6.390	6.390 (1.093)	41	34291			18.10- 78.10	46.09
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	34819	100.000	81.672	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	32322			60.63- 120.63	92.83
6.530	6.530 (1.117)	57	9979			0.00- 59.33	28.66
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.726 (1.151)	83	128101	100.000	88.724	80.00- 120.00	100.00
6.726	6.726 (1.151)	85	77587			28.84- 88.84	60.57
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	82038	100.000	91.453	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	26850			2.17- 62.17	32.73
7.327	7.327 (1.254)	39	37615			14.65- 74.65	45.85
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	18202	100.000	91.163	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	111540			589.74- 649.74	612.79
7.565	7.565 (1.294)	58	61796			296.38- 356.38	339.50
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	194376	100.000	83.877	80.00- 120.00	100.00
7.719	7.719 (1.321)	92	115310			28.91- 88.91	59.32
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	55247	100.000	97.578	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	16445			2.18- 62.18	29.77
8.293	8.293 (0.845)	39	24568			10.13- 70.13	44.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.615	8.615 (0.877)	97	68089	100.000	86.961	80.00- 120.00	100.00
8.615	8.615 (0.877)	99	42125			34.34- 94.34	61.87
8.615	8.615 (0.877)	83	63818			63.48- 123.48	93.73
156 Tetrachloroethene					CAS #: 127-18-4		
8.629	8.629 (0.879)	166	68488	100.000	86.464	80.00- 120.00	100.00
8.615	8.615 (0.877)	129	58804			51.36- 111.36	85.86
8.615	8.615 (0.877)	131	55646			49.19- 109.19	81.25
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	63513	100.000	85.671	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	97251			125.38- 185.38	153.12
9.006	9.006 (0.917)	100	11258			0.00- 48.37	17.73
160 Dibromochloromethane					CAS #: 124-48-1		
9.146	9.146 (0.932)	129	102394	100.000	86.305	80.00- 120.00	100.00
9.146	9.146 (0.932)	127	80868			47.63- 107.63	78.98
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	95925	100.000	89.832	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	87375			61.71- 121.71	91.09
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	144508	100.000	85.714	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	47227			1.37- 61.37	32.68
9.846	9.846 (1.003)	77	99258			39.20- 99.20	68.69
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	70613	100.000	85.136	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	243387			310.29- 370.29	344.68
169 m,p-Xylene					CAS #: 108-38-3		
10.070	10.070 (1.026)	106	86879	100.000	87.552	80.00- 120.00	100.00
10.070	10.070 (1.026)	91	186954			185.45- 245.45	215.19
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	79830	100.000	86.943	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	183325			196.57- 256.57	229.64
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	120465	100.000	83.983	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	69090			26.62- 86.62	57.35
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	81159	100.000	85.290	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
10.671	10.671 (1.087)	171	42784			22.90- 82.90	52.72
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	246495	100.000	86.156	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	61882			0.00- 55.02	25.10
10.769	10.769 (1.097)	51	31141			0.00- 41.92	12.63
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	146945	100.000	88.256	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	90050			28.86- 88.86	61.28
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	328976	100.000	83.286	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	64941			0.00- 49.36	19.74
11.105	11.105 (1.131)	105	11302			0.00- 33.72	3.44
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	245090	100.000	82.751	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	66804			0.00- 57.25	27.26
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	215851	100.000	84.538	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	98743			15.00- 75.00	45.75
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	190562	100.000	82.121	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	79180			10.76- 70.76	41.55
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	122924	100.000	82.358	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	77455			32.32- 92.32	63.01
11.693	11.693 (1.191)	111	54628			17.13- 77.13	44.44
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	124600	100.000	79.468	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	77539			33.76- 93.76	62.23
11.763	11.763 (1.198)	111	55756			14.33- 74.33	44.75
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.861 (1.208)	91	115102	100.000	95.480	80.00- 120.00	100.00
11.861	11.861 (1.208)	126	20591			0.00- 48.64	17.89
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.987	11.987 (1.221)	146	118172	100.000	78.760	80.00- 120.00	100.00
11.987	11.987 (1.221)	148	75872			32.13- 92.13	64.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.987	11.987 (1.221)	111	57640			17.47- 77.47	48.78
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	61288	100.000	66.634	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	59451			61.06- 121.06	97.00
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	49708	100.000	75.850	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	32300			36.08- 96.08	64.98
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	16398	10.0000	7.918	80.00- 120.00	100.00(a)
12.966	12.966 (1.321)	127	2056			0.00- 42.87	12.54

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: msd14.i
Lab File ID: 14021502.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 15-FEB-2016
Calibration Time: 10:38
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	134188	80513	187863	134188	0.00
123 1,4-Difluorobenze	615834	369500	862168	615834	0.00
163 Chlorobenzene-d5	494859	296915	692803	494859	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/15feb16.b/14021502.d

Date : 15-FEB-2016 10:38

Client ID: CCV

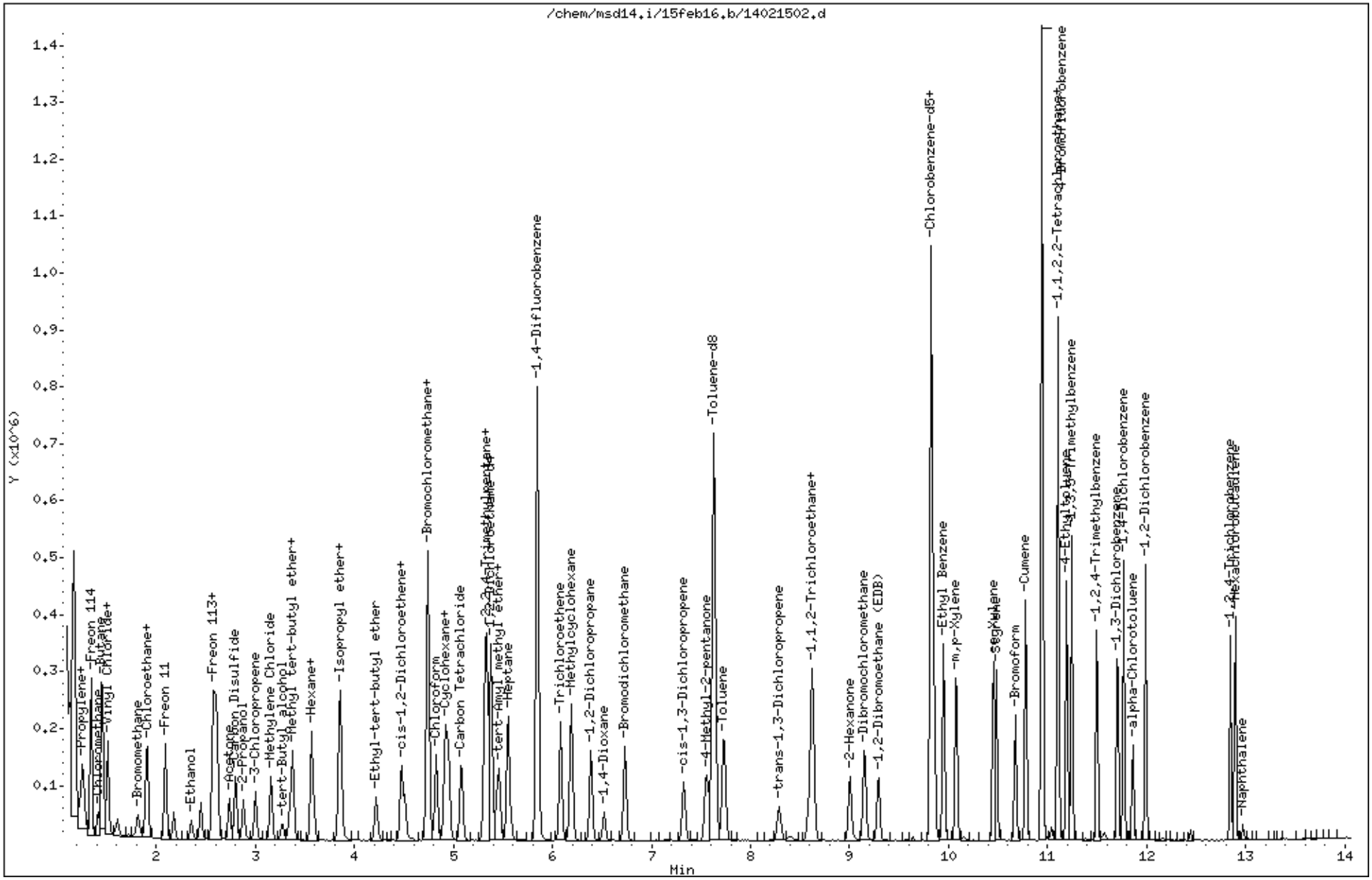
Sample Info: 25mL #2759-175

Column phase: RTX-624

Instrument: msd14.i

Operator: js

Column diameter: 0.18



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Client Sample ID: LCS

Lab ID#: 1602064B-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 10:59 AM**	

Compound	%Recovery	Method Limits
Freon 12	112	70-130
Freon 114	117	70-130
Chloromethane	124	70-130
Vinyl Chloride	123	70-130
1,3-Butadiene	105	70-130
Bromomethane	124	70-130
Chloroethane	108	70-130
Freon 11	109	70-130
Ethanol	108	70-130
Freon 113	103	70-130
1,1-Dichloroethene	108	70-130
Acetone	93	70-130
2-Propanol	99	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	98	70-130
Methylene Chloride	110	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	112	70-130
Hexane	103	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	104	70-130
Tetrahydrofuran	104	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	105	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	104	70-130
1,2-Dichloroethane	110	70-130
Heptane	91	70-130
Trichloroethene	107	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	107	70-130
Bromodichloromethane	108	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	106	70-130
Toluene	104	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	105	70-130
2-Hexanone	110	70-130

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Client Sample ID: LCS

Lab ID#: 1602064B-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 10:59 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	108	70-130
1,2-Dibromoethane (EDB)	106	70-130
Chlorobenzene	105	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	104	70-130
o-Xylene	103	70-130
Styrene	114	70-130
Bromoform	108	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	100	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	129	70-130
Hexachlorobutadiene	127	70-130
Naphthalene	149 Q	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Report Date: 08-Feb-2016 11:40

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 50ppbv(100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	51.228	102.46	60-140
11 Freon 12	50.000	55.936	111.87	70-130
15 Freon 114	50.000	58.394	116.79	70-130
17 Chloromethane	50.000	62.213	124.43	70-130
23 Butane	50.000	47.387	94.77	60-140
25 Vinyl Chloride	50.000	61.428	122.86	70-130
26 1,3-Butadiene	50.000	52.625	105.25	70-130
29 Bromomethane	50.000	62.183	124.37	70-130
30 Chloroethane	50.000	53.839	107.68	70-130
31 Isopentane	50.000	51.490	102.98	60-140
35 Freon 11	50.000	54.485	108.97	70-130
42 Ethanol	50.000	53.778	107.56	70-130
49 Freon 113	50.000	51.412	102.82	70-130
50 1,1-Dichloroethene	50.000	54.136	108.27	70-130
52 Acetone	50.000	46.312	92.62	70-130
56 Carbon Disulfide	50.000	46.702	93.40	70-130
57 2-Propanol	50.000	49.385	98.77	70-130
58 3-Chloropropene	50.000	48.888	97.78	70-130
66 Methylene Chloride	50.000	55.095	110.19	70-130
72 Methyl tert-butyl	50.000	50.555	101.11	70-130
73 trans-1,2-Dichloro	42.500	47.569	111.93	70-130
78 Hexane	50.000	51.604	103.21	70-130
82 1,1-Dichloroethane	50.000	54.951	109.90	70-130
86 Vinyl Acetate	50.000	53.188	106.38	70-130
91 cis-1,2-Dichloroet	56.500	58.626	103.76	70-130
92 2-Butanone	50.000	50.702	101.40	70-130
99 Tetrahydrofuran	50.000	52.166	104.33	70-130
100 Chloroform	50.000	52.694	105.39	70-130
103 1,1,1-Trichloroeth	50.000	50.443	100.89	70-130
106 Carbon Tetrachlori	50.000	52.653	105.31	70-130
102 Cyclohexane	50.000	47.861	95.72	70-130
113 2,2,4-Trimethylpen	50.000	52.135	104.27	70-130
116 Benzene	50.000	51.953	103.91	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	54.805	109.61	70-130
121 Heptane	50.000	45.350	90.70	70-130
125 Trichloroethene	50.000	53.566	107.13	70-130
127 Methylcyclohexane	50.000	48.874	97.75	60-140
132 1,2-Dichloropropan	50.000	52.045	104.09	70-130
136 1,4-Dioxane	50.000	53.467	106.93	70-130
138 Bromodichlorometha	50.000	54.161	108.32	70-130
144 cis-1,3-Dichloropr	50.000	50.418	100.84	70-130
145 4-Methyl-2-pentano	50.000	53.031	106.06	70-130
147 Toluene	50.000	51.759	103.52	70-130
150 trans-1,3-Dichloro	50.000	53.944	107.89	70-130
155 1,1,2-Trichloroeth	50.000	51.672	103.34	70-130
156 Tetrachloroethene	50.000	52.734	105.47	70-130
158 2-Hexanone	50.000	54.849	109.70	70-130
160 Dibromochlorometha	50.000	54.163	108.33	70-130
161 1,2-Dibromoethane	50.000	52.969	105.94	70-130
165 Chlorobenzene	50.000	52.658	105.32	70-130
167 Ethyl Benzene	50.000	50.995	101.99	70-130
169 m,p-Xylene	50.000	51.971	103.94	70-130
171 o-Xylene	50.000	51.722	103.44	70-130
172 Styrene	50.000	57.190	114.38	70-130
174 Bromoform	65.000	70.551	108.54	70-130
175 Cumene	50.000	50.555	101.11	70-130
181 1,1,2,2-Tetrachlor	50.000	50.380	100.76	70-130
182 Propylbenzene	50.000	51.743	103.49	70-130
188 4-Ethyltoluene	50.000	49.966	99.93	70-130
190 1,3,5-Trimethylben	50.000	54.812	109.62	70-130
196 1,2,4-Trimethylben	50.000	52.758	105.52	70-130
208 1,3-Dichlorobenzen	50.000	52.678	105.36	70-130
209 1,4-Dichlorobenzen	50.000	51.608	103.22	70-130
212 alpha-Chlorotoluen	50.000	52.459	104.92	70-130
214 1,2-Dichlorobenzen	50.000	52.249	104.50	70-130
226 1,2,4-Trichloroben	50.000	64.549	129.10	70-130
227 Hexachlorobutadien	50.000	63.550	127.10	70-130
228 Naphthalene	5.000	7.455	149.10*	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.721	102.89	70-130
$ 146 Toluene-d8	25.000	24.825	99.30	70-130
$ 177 4-Bromofluorobenze	25.000	24.618	98.47	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020805.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 08-FEB-2016 10:59
Operator : sab Inst ID: msdp.i
Smp Info : 100ml 2759-109A
Misc Info : 50ppbv(100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 08-Feb-2016 11:39 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.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

Name	Value	Description
DF	1.00000	Dilution Factor

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	147219	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	118614			49.06- 109.06	80.57
5.456	5.449 (1.000)	49	224512			124.20- 184.20	152.50
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	601836	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	85890			0.00- 44.57	14.27
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.779 (1.000)	117	578350	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	294184			20.36- 80.36	50.87
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	223462	25.7213	25.721	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	122744			26.68- 86.68	54.93

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.554	7.555 (1.191)	98	596921	24.8248	24.825	80.00- 120.00	100.00
7.554	7.555 (1.191)	70	64581			0.00- 40.62	10.82
7.554	7.555 (1.191)	100	400366			36.74- 96.74	67.07
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.111)	174	459188	24.6182	24.618	80.00- 120.00	100.00
9.761	9.761 (1.111)	95	436132			65.95- 125.95	94.98
9.761	9.761 (1.111)	176	440547			65.80- 125.80	95.94
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	318111	51.2284	51.228	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	208017			34.60- 94.60	65.39
1.479	1.479 (0.271)	39	243394			43.23- 103.23	76.51
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	916096	55.9364	55.936	80.00- 120.00	100.00
1.507	1.507 (0.276)	87	296633			1.76- 61.76	32.38
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.299)	135	738895	58.3941	58.394	80.00- 120.00	100.00
1.633	1.633 (0.299)	137	237581			2.23- 62.23	32.15
17 Chloromethane					CAS #: 74-87-3		
1.716	1.717 (0.315)	50	339338	62.2132	62.213	80.00- 120.00	100.00
1.716	1.717 (0.315)	52	108995			0.00- 59.98	32.12
23 Butane					CAS #: 106-97-8		
1.786	1.787 (0.327)	58	79486	47.3872	47.387	80.00- 120.00	100.00
1.786	1.787 (0.327)	43	639781			783.10- 843.10	804.90
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	447951	61.4277	61.428	80.00- 120.00	100.00
1.828	1.828 (0.335)	64	147910			5.16- 65.16	33.02
26 1,3-Butadiene					CAS #: 106-99-0		
1.842	1.842 (0.338)	54	316507	52.6250	52.625	80.00- 120.00	100.00
1.842	1.842 (0.338)	39	347654			81.92- 141.92	109.84
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	263518	62.1835	62.183	80.00- 120.00	100.00
2.211	2.204 (0.405)	96	242778			65.10- 125.10	92.13
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.425)	64	176451	53.8394	53.839	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	52946			0.00- 59.99	30.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	62955			5.85- 65.85	35.68
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.429)	43	473997	51.4897	51.490	80.00- 120.00	100.00
2.347	2.340 (0.430)	57	313525			36.22- 96.22	66.14
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	929932	54.4855	54.485	80.00- 120.00	100.00
2.569	2.569 (0.471)	103	610466			34.50- 94.50	65.65
42 Ethanol					CAS #: 64-17-5		
2.884	2.877 (0.529)	45	150607	53.7782	53.778	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	30673			0.00- 50.77	20.37
2.884	2.877 (0.529)	46	58407			8.68- 68.68	38.78
49 Freon 113					CAS #: 76-13-1		
3.221	3.214 (0.590)	151	699785	51.4122	51.412	80.00- 120.00	100.00
3.221	3.214 (0.590)	153	441157			33.45- 93.45	63.04
3.214	3.214 (0.589)	101	733281			74.36- 134.36	104.79
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	203668	54.1362	54.136	80.00- 120.00	100.00
3.242	3.242 (0.594)	96	317216			133.60- 193.60	155.75
3.242	3.242 (0.594)	61	646652			302.57- 362.57	317.50
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	179743	46.3118	46.312	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	641444			323.05- 383.05	356.87
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	783800	46.7020	46.702	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.651)	45	817754	49.3854	49.385	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	167917			0.00- 49.72	20.53
3.550	3.550 (0.651)	59	28319			0.00- 33.36	3.46
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	136907	48.8876	48.888	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	515972			339.09- 399.09	376.88
66 Methylene Chloride					CAS #: 75-09-2		
3.909	3.901 (0.716)	49	503873	55.0953	55.095	80.00- 120.00	100.00
3.909	3.901 (0.716)	84	282482			25.63- 85.63	56.06
3.909	3.901 (0.716)	51	157977			0.46- 60.46	31.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.756)	73	922276	50.5550	50.555	80.00- 120.00	100.00
4.123	4.123 (0.756)	57	272062			0.00- 59.13	29.50
4.123	4.123 (0.756)	41	270199			0.00- 58.91	29.30
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.145	4.145 (0.760)	98	178651	47.5694	47.569	80.00- 120.00	100.00
4.145	4.145 (0.760)	61	494367			242.97- 302.97	276.72
4.145	4.145 (0.760)	96	283781			127.33- 187.33	158.85
78 Hexane					CAS #: 110-54-3		
4.374	4.367 (0.802)	57	636245	51.6039	51.604	80.00- 120.00	100.00
4.374	4.367 (0.802)	43	402168			34.30- 94.30	63.21
4.374	4.367 (0.802)	86	79117			0.00- 42.17	12.43
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.850)	63	687564	54.9508	54.951	80.00- 120.00	100.00
4.639	4.639 (0.850)	65	202672			0.09- 60.09	29.48
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.682 (0.860)	86	87522	53.1885	53.188	80.00- 120.00	100.00
4.682	4.682 (0.858)	43	1191495			1535.12-1595.12	1361.37
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.957)	98	246408	58.6255	58.626	80.00- 120.00	100.00
5.219	5.219 (0.957)	96	383189			125.21- 185.21	155.51
5.219	5.219 (0.957)	61	595488			211.41- 271.41	241.67
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	161450	50.7025	50.702	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	820744			452.15- 512.15	508.36
5.248	5.248 (0.962)	57	64092			9.54- 69.54	39.70
99 Tetrahydrofuran					CAS #: 109-99-9		
5.441	5.441 (0.997)	42	444271	52.1660	52.166	80.00- 120.00	100.00
5.449	5.441 (0.999)	71	142868			2.09- 62.09	32.16
5.449	5.441 (0.999)	72	152814			3.61- 63.61	34.40
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	686427	52.6944	52.694	80.00- 120.00	100.00
5.513	5.513 (1.010)	85	448346			35.60- 95.60	65.32
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	438058	47.8615	47.861	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	664274			115.43- 175.43	151.64
5.628	5.628 (1.032)	41	375565			53.65- 113.65	85.73

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	749676	50.4429	50.443	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	481192			33.21- 93.21	64.19
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.055)	119	812072	52.6534	52.653	80.00- 120.00	100.00
5.757	5.757 (1.055)	117	852928			76.21- 136.21	105.03
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	2107520	52.1350	52.135	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	672716			1.10- 61.10	31.92
5.964	5.964 (1.093)	41	587195			0.00- 57.08	27.86
116 Benzene					CAS #: 71-43-2		
5.971	5.972 (0.941)	78	952920	51.9527	51.953	80.00- 120.00	100.00
5.971	5.972 (0.941)	77	229535			0.00- 53.91	24.09
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.058 (0.955)	62	554834	54.8048	54.805	80.00- 120.00	100.00
6.057	6.058 (0.955)	64	171852			0.29- 60.29	30.97
121 Heptane					CAS #: 142-82-5		
6.136	6.129 (0.967)	71	359570	45.3498	45.350	80.00- 120.00	100.00
6.129	6.129 (0.966)	43	737544			172.43- 232.43	205.12
6.136	6.129 (0.967)	57	415166			85.51- 145.51	115.46
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	473137	53.5660	53.566	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	524201			79.80- 139.80	110.79
6.537	6.537 (1.030)	97	302265			33.64- 93.64	63.89
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	634305	48.8743	48.874	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	301782			16.94- 76.94	47.58
6.645	6.645 (1.047)	55	622998			65.75- 125.75	98.22
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	438583	52.0447	52.045	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	312231			39.62- 99.62	71.19
6.774	6.767 (1.068)	41	270103			30.53- 90.53	61.59
136 1,4-Dioxane					CAS #: 123-91-1		
6.852	6.853 (1.080)	88	244205	53.4672	53.467	80.00- 120.00	100.00
6.852	6.853 (1.080)	58	204034			52.00- 112.00	83.55
6.852	6.853 (1.080)	57	67897			0.00- 56.29	27.80

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	788567	54.1615	54.161	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	504962			34.30- 94.30	64.04
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.161)	75	616480	50.4184	50.418	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	196822			2.71- 62.71	31.93
7.368	7.368 (1.161)	39	403149			35.07- 95.07	65.40
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	396997	53.0314	53.031	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	1018228			230.95- 290.95	256.48
7.483	7.483 (1.180)	85	143697			7.98- 67.98	36.20
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	1327351	51.7593	51.759	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	759963			27.38- 87.38	57.25
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	603997	53.9445	53.944	80.00- 120.00	100.00
7.848	7.848 (0.893)	77	191217			2.10- 62.10	31.66
7.848	7.848 (0.893)	39	376727			30.98- 90.98	62.37
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.999	7.999 (0.910)	97	453052	51.6724	51.672	80.00- 120.00	100.00
7.999	7.999 (0.910)	99	280801			31.34- 91.34	61.98
7.999	7.999 (0.910)	83	394378			57.20- 117.20	87.05
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.916)	166	806907	52.7340	52.734	80.00- 120.00	100.00
8.049	8.049 (0.916)	129	516979			35.33- 95.33	64.07
8.049	8.049 (0.916)	131	521678			35.36- 95.36	64.65
158 2-Hexanone					CAS #: 591-78-6		
8.171	8.171 (0.930)	58	535173	54.8489	54.849	80.00- 120.00	100.00
8.171	8.171 (0.930)	43	1009203			156.39- 216.39	188.58
8.171	8.171 (0.930)	100	99195			0.00- 48.05	18.54
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.946)	129	969853	54.1629	54.163	80.00- 120.00	100.00
8.314	8.314 (0.946)	127	749315			48.12- 108.12	77.26
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.959)	107	753145	52.9689	52.969	80.00- 120.00	100.00
8.428	8.428 (0.959)	109	710309			63.87- 123.87	94.31

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	1145962	52.6577	52.658	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	361765			2.38- 62.38	31.57
8.808	8.808 (1.002)	77	593267			24.59- 84.59	51.77
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.008)	106	583639	50.9953	50.995	80.00- 120.00	100.00
8.858	8.858 (1.008)	91	1772135			276.53- 336.53	303.64
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.959 (1.020)	106	723437	51.9710	51.971	80.00- 120.00	100.00
8.958	8.959 (1.020)	91	1415965			166.59- 226.59	195.73
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.058)	106	691134	51.7216	51.722	80.00- 120.00	100.00
9.295	9.295 (1.058)	91	1433129			176.08- 236.08	207.36
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.060)	104	1144809	57.1899	57.190	80.00- 120.00	100.00
9.309	9.310 (1.060)	78	529753			17.58- 77.58	46.27
174 Bromoform					CAS #: 75-25-2		
9.503	9.503 (1.082)	173	1551569	70.5509	70.551	80.00- 120.00	100.00
9.503	9.503 (1.082)	171	800039			21.36- 81.36	51.56
175 Cumene					CAS #: 98-82-8		
9.582	9.582 (1.090)	105	2140336	50.5547	50.555	80.00- 120.00	100.00
9.582	9.582 (1.090)	120	603871			0.00- 57.79	28.21
9.582	9.582 (1.090)	51	243133			0.00- 41.33	11.36
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.883 (1.125)	83	1070395	50.3802	50.380	80.00- 120.00	100.00
9.882	9.883 (1.125)	85	689941			34.22- 94.22	64.46
182 Propylbenzene					CAS #: 103-65-1		
9.925	9.926 (1.130)	91	2575860	51.7427	51.743	80.00- 120.00	100.00
9.925	9.926 (1.130)	120	640444			0.00- 54.34	24.86
9.925	9.926 (1.130)	105	95752			0.00- 33.54	3.72
188 4-Ethyltoluene					CAS #: 622-96-8		
10.019	10.019 (1.140)	120	683056	49.9657	49.966	80.00- 120.00	100.00
10.019	10.019 (1.140)	105	2173699			279.66- 339.66	318.23
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.146)	120	950210	54.8117	54.812	80.00- 120.00	100.00
10.069	10.069 (1.146)	105	1918828			169.72- 229.72	201.94

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 (1.183)	120	841746	52.7580	52.758	80.00- 120.00	100.00
10.391	10.384 (1.183)	105	1811818			185.64- 245.64	215.25
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.670	10.671 (1.214)	146	1432446	52.6779	52.678	80.00- 120.00	100.00
10.670	10.671 (1.214)	148	903382			34.23- 94.23	63.07
10.663	10.663 (1.214)	111	529183			7.40- 67.40	36.94
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.749	10.749 (1.223)	146	1423352	51.6086	51.608	80.00- 120.00	100.00
10.749	10.749 (1.223)	148	918956			33.60- 93.60	64.56
10.749	10.742 (1.223)	111	507984			4.87- 64.87	35.69
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.864	10.864 (1.236)	91	1805944	52.4590	52.459	80.00- 120.00	100.00
10.864	10.864 (1.236)	126	424042			0.00- 53.22	23.48
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.072	11.072 (1.260)	146	1354345	52.2487	52.249	80.00- 120.00	100.00
11.072	11.072 (1.260)	148	866371			33.66- 93.66	63.97
11.072	11.072 (1.260)	111	521791			7.92- 67.92	38.53
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.461	12.461 (1.418)	180	1417068	64.5491	64.549	80.00- 120.00	100.00
12.468	12.468 (1.419)	182	1366888			66.61- 126.61	96.46
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.561	12.562 (1.430)	225	1214377	63.5497	63.550	80.00- 120.00	100.00
12.561	12.562 (1.430)	223	768645			32.66- 92.66	63.30
228 Naphthalene					CAS #: 91-20-3		
12.733	12.726 (1.449)	128	280712	7.45490	7.455	80.00- 120.00	100.00(R)
12.733	12.726 (1.449)	127	36822			0.00- 42.82	13.12

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: p020805.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 50ppbv(100ppbv)

Calibration Date: 08-FEB-2016
Calibration Time: 10:35
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

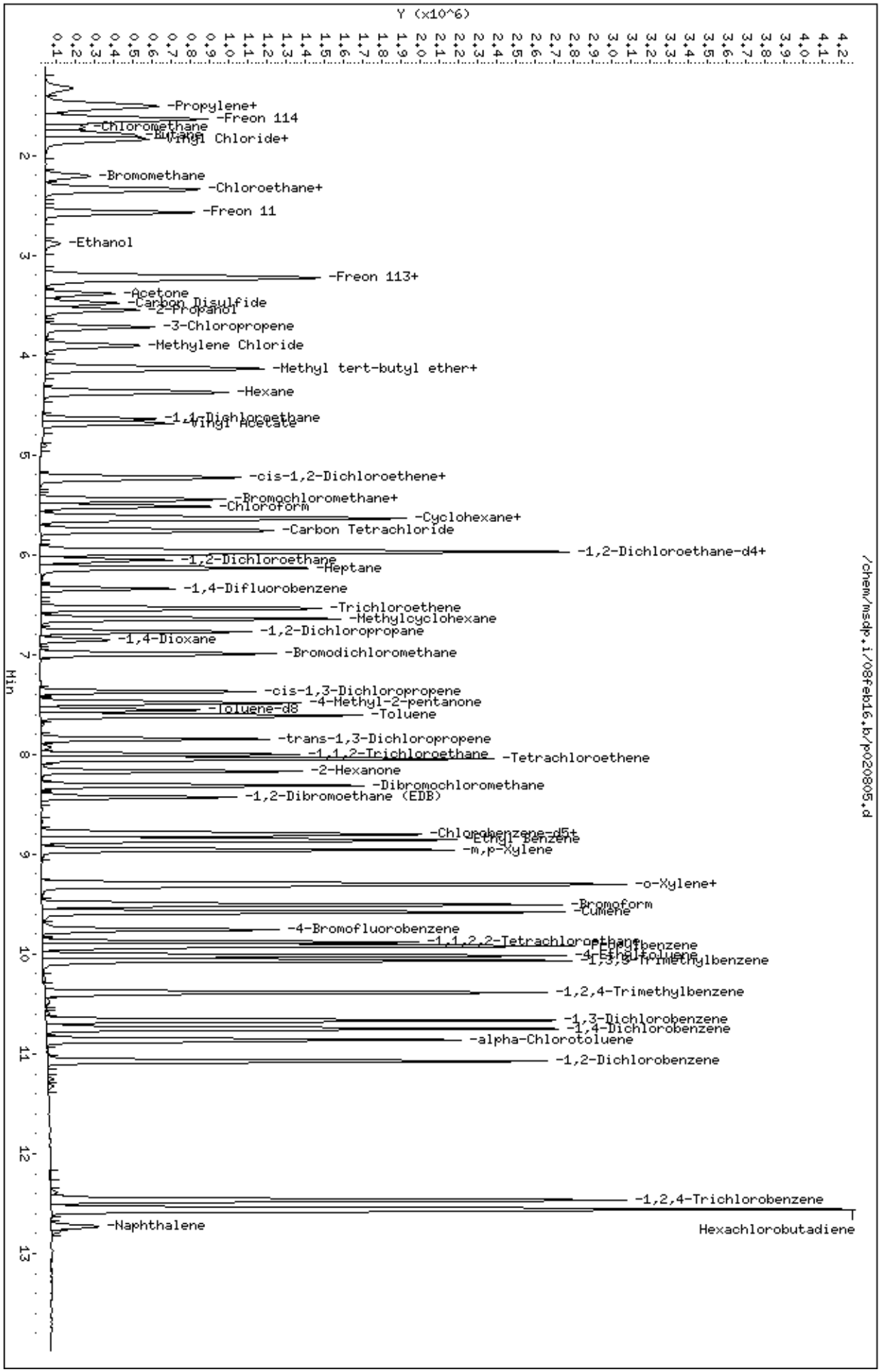
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	147219	-3.46
123 1,4-Difluorobenze	608067	364840	851294	601836	-1.02
163 Chlorobenzene-d5	577195	346317	808073	578350	0.20

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	8.79	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/08feb16.b/p020805.d
Date : 08-FEB-2016 10:59
Client ID: LCS
Sample Info: 100ml 2759-109A
Column phase: RTX-624

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



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Client Sample ID: LCSD

Lab ID#: 1602064B-21AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 11:23 AM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	114	70-130
Chloromethane	121	70-130
Vinyl Chloride	127	70-130
1,3-Butadiene	104	70-130
Bromomethane	124	70-130
Chloroethane	105	70-130
Freon 11	109	70-130
Ethanol	110	70-130
Freon 113	99	70-130
1,1-Dichloroethene	104	70-130
Acetone	91	70-130
2-Propanol	97	70-130
Carbon Disulfide	90	70-130
3-Chloropropene	95	70-130
Methylene Chloride	108	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	111	70-130
Hexane	101	70-130
1,1-Dichloroethane	105	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	102	70-130
Tetrahydrofuran	102	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	103	70-130
2,2,4-Trimethylpentane	101	70-130
Benzene	103	70-130
1,2-Dichloroethane	106	70-130
Heptane	90	70-130
Trichloroethene	105	70-130
1,2-Dichloropropane	100	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	101	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	107	70-130
2-Hexanone	112	70-130

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Client Sample ID: LCSD

Lab ID#: 1602064B-21AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p020806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/16 11:23 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	108	70-130
1,2-Dibromoethane (EDB)	107	70-130
Chlorobenzene	104	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	104	70-130
o-Xylene	105	70-130
Styrene	115	70-130
Bromoform	111	70-130
Cumene	102	70-130
1,1,2,2-Tetrachloroethane	102	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	109	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	105	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	107	70-130
1,2,4-Trichlorobenzene	137 Q	70-130
Hexachlorobutadiene	136 Q	70-130
Naphthalene	158 Q	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	98	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 08-Feb-2016 11:59

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 08feb16
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: LCSD
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 50ppbv(100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	49.434	98.87	60-140
11 Freon 12	50.000	54.029	108.06	70-130
15 Freon 114	50.000	56.904	113.81	70-130
17 Chloromethane	50.000	60.695	121.39	70-130
23 Butane	50.000	58.398	116.80	60-140
25 Vinyl Chloride	50.000	63.410	126.82	70-130
26 1,3-Butadiene	50.000	51.861	103.72	70-130
29 Bromomethane	50.000	61.895	123.79	70-130
30 Chloroethane	50.000	52.694	105.39	70-130
31 Isopentane	50.000	50.403	100.81	60-140
35 Freon 11	50.000	54.455	108.91	70-130
42 Ethanol	50.000	55.008	110.02	70-130
49 Freon 113	50.000	49.690	99.38	70-130
50 1,1-Dichloroethene	50.000	51.963	103.93	70-130
52 Acetone	50.000	45.596	91.19	70-130
56 Carbon Disulfide	50.000	45.154	90.31	70-130
57 2-Propanol	50.000	48.339	96.68	70-130
58 3-Chloropropene	50.000	47.326	94.65	70-130
66 Methylene Chloride	50.000	54.222	108.44	70-130
72 Methyl tert-butyl	50.000	48.364	96.73	70-130
73 trans-1,2-Dichloro	42.500	47.163	110.97	70-130
78 Hexane	50.000	50.503	101.01	70-130
82 1,1-Dichloroethane	50.000	52.363	104.73	70-130
86 Vinyl Acetate	50.000	51.269	102.54	70-130
91 cis-1,2-Dichloroet	56.500	57.920	102.51	70-130
92 2-Butanone	50.000	50.196	100.39	70-130
99 Tetrahydrofuran	50.000	51.136	102.27	70-130
100 Chloroform	50.000	52.678	105.36	70-130
103 1,1,1-Trichloroeth	50.000	49.676	99.35	70-130
106 Carbon Tetrachlori	50.000	51.705	103.41	70-130
102 Cyclohexane	50.000	47.868	95.74	70-130
113 2,2,4-Trimethylpen	50.000	50.665	101.33	70-130
116 Benzene	50.000	51.380	102.76	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	53.205	106.41	70-130
121 Heptane	50.000	45.027	90.05	70-130
125 Trichloroethene	50.000	52.548	105.10	70-130
127 Methylcyclohexane	50.000	48.374	96.75	60-140
132 1,2-Dichloropropan	50.000	50.203	100.41	70-130
136 1,4-Dioxane	50.000	52.244	104.49	70-130
138 Bromodichlorometha	50.000	52.461	104.92	70-130
144 cis-1,3-Dichloropr	50.000	48.992	97.98	70-130
145 4-Methyl-2-pentano	50.000	50.597	101.19	70-130
147 Toluene	50.000	50.855	101.71	70-130
150 trans-1,3-Dichloro	50.000	53.778	107.56	70-130
155 1,1,2-Trichloroeth	50.000	52.834	105.67	70-130
156 Tetrachloroethene	50.000	53.396	106.79	70-130
158 2-Hexanone	50.000	55.837	111.67	70-130
160 Dibromochlorometha	50.000	54.226	108.45	70-130
161 1,2-Dibromoethane	50.000	53.637	107.27	70-130
165 Chlorobenzene	50.000	52.174	104.35	70-130
167 Ethyl Benzene	50.000	51.575	103.15	70-130
169 m,p-Xylene	50.000	52.182	104.36	70-130
171 o-Xylene	50.000	52.323	104.65	70-130
172 Styrene	50.000	57.578	115.16	70-130
174 Bromoform	65.000	71.932	110.66	70-130
175 Cumene	50.000	51.172	102.34	70-130
181 1,1,2,2-Tetrachlor	50.000	51.125	102.25	70-130
182 Propylbenzene	50.000	52.936	105.87	70-130
188 4-Ethyltoluene	50.000	52.013	104.03	70-130
190 1,3,5-Trimethylben	50.000	53.942	107.88	70-130
196 1,2,4-Trimethylben	50.000	54.397	108.79	70-130
208 1,3-Dichlorobenzen	50.000	52.962	105.93	70-130
209 1,4-Dichlorobenzen	50.000	52.675	105.35	70-130
212 alpha-Chlorotoluen	50.000	52.762	105.52	70-130
214 1,2-Dichlorobenzen	50.000	53.618	107.24	70-130
226 1,2,4-Trichloroben	50.000	68.495	136.99*	70-130
227 Hexachlorobutadien	50.000	68.060	136.12*	70-130
228 Naphthalene	5.000	7.886	157.72*	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.469	97.87	70-130
$ 146 Toluene-d8	25.000	24.375	97.50	70-130
$ 177 4-Bromofluorobenze	25.000	24.488	97.95	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/08feb16.b/p020806.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 08-FEB-2016 11:23
Operator : sab Inst ID: msdp.i
Smp Info : 100ml 2759-109A
Misc Info : 50ppbv(100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msdp.i/08feb16.b/p16q0201a.m
Meth Date : 08-Feb-2016 11:39 sblack Quant Type: ISTD
Cal Date : 01-FEB-2016 17:22 Cal File: p020108.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

Name	Value	Description
DF	1.00000	Dilution Factor

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	149851	25.0000		80.00- 120.00	100.00
5.456	5.449 (1.000)	128	115759			49.06- 109.06	77.25
5.456	5.449 (1.000)	49	223716			124.20- 184.20	149.29
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	610936	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	88247			0.00- 44.57	14.44
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.787	8.779 (1.000)	117	572955	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	291892			20.36- 80.36	50.95
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	216380	24.4687	24.469	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	119277			26.68- 86.68	55.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.555	7.555 (1.191)	98	594969	24.3750	24.375	80.00- 120.00	100.00
7.555	7.555 (1.191)	70	65214			0.00- 40.62	10.96
7.555	7.555 (1.191)	100	390889			36.74- 96.74	65.70
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.768	9.761 (1.112)	174	452507	24.4885	24.488	80.00- 120.00	100.00
9.768	9.761 (1.112)	95	432586			65.95- 125.95	95.60
9.768	9.761 (1.112)	176	444710			65.80- 125.80	98.28
9 Propylene					CAS #: 115-07-1		
1.479	1.479 (0.271)	41	312458	49.4343	49.434	80.00- 120.00	100.00
1.479	1.479 (0.271)	42	203935			34.60- 94.60	65.27
1.479	1.479 (0.271)	39	238222			43.23- 103.23	76.24
11 Freon 12					CAS #: 75-71-8		
1.507	1.507 (0.276)	85	900675	54.0288	54.029	80.00- 120.00	100.00
1.507	1.507 (0.276)	87	287377			1.76- 61.76	31.91
15 Freon 114					CAS #: 76-14-2		
1.633	1.633 (0.299)	135	732911	56.9038	56.904	80.00- 120.00	100.00
1.633	1.633 (0.299)	137	236329			2.23- 62.23	32.25
17 Chloromethane					CAS #: 74-87-3		
1.716	1.717 (0.315)	50	336974	60.6947	60.695	80.00- 120.00	100.00
1.716	1.717 (0.315)	52	107652			0.00- 59.98	31.95
23 Butane					CAS #: 106-97-8		
1.786	1.787 (0.327)	58	99707	58.3983	58.398	80.00- 120.00	100.00
1.786	1.787 (0.327)	43	640955			783.10- 843.10	642.84
25 Vinyl Chloride					CAS #: 75-01-4		
1.828	1.828 (0.335)	62	470677	63.4104	63.410	80.00- 120.00	100.00
1.828	1.828 (0.335)	64	143177			5.16- 65.16	30.42
26 1,3-Butadiene					CAS #: 106-99-0		
1.856	1.842 (0.340)	54	317489	51.8611	51.861	80.00- 120.00	100.00
1.842	1.842 (0.338)	39	414626			81.92- 141.92	130.60
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	266985	61.8950	61.895	80.00- 120.00	100.00
2.211	2.204 (0.405)	96	251320			65.10- 125.10	94.13
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.425)	64	175784	52.6938	52.694	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	53076			0.00- 59.99	30.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	63094			5.85- 65.85	35.89
31 Isopentane					CAS #: 78-78-4		
2.347	2.340 (0.430)	43	472287	50.4028	50.403	80.00- 120.00	100.00
2.347	2.340 (0.430)	57	312500			36.22- 96.22	66.17
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.471)	101	946031	54.4552	54.455	80.00- 120.00	100.00
2.569	2.569 (0.471)	103	612791			34.50- 94.50	64.77
42 Ethanol					CAS #: 64-17-5		
2.884	2.877 (0.529)	45	156805	55.0079	55.008	80.00- 120.00	100.00
2.884	2.884 (0.529)	43	30551			0.00- 50.77	19.48
2.884	2.877 (0.529)	46	59732			8.68- 68.68	38.09
49 Freon 113					CAS #: 76-13-1		
3.221	3.214 (0.590)	151	688439	49.6903	49.690	80.00- 120.00	100.00
3.221	3.214 (0.590)	153	445065			33.45- 93.45	64.65
3.214	3.214 (0.589)	101	720907			74.36- 134.36	104.72
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.594)	98	198988	51.9632	51.963	80.00- 120.00	100.00
3.242	3.242 (0.594)	96	322899			133.60- 193.60	162.27
3.242	3.242 (0.594)	61	655420			302.57- 362.57	329.38
52 Acetone					CAS #: 67-64-1		
3.386	3.386 (0.621)	58	180130	45.5963	45.596	80.00- 120.00	100.00
3.386	3.386 (0.621)	43	633794			323.05- 383.05	351.85
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.479 (0.638)	76	771363	45.1537	45.154	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.550	3.550 (0.651)	45	814732	48.3386	48.339	80.00- 120.00	100.00
3.550	3.550 (0.651)	43	161469			0.00- 49.72	19.82
3.550	3.550 (0.651)	59	28943			0.00- 33.36	3.55
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.682)	76	134904	47.3263	47.326	80.00- 120.00	100.00
3.722	3.722 (0.682)	41	516024			339.09- 399.09	382.51
66 Methylene Chloride					CAS #: 75-09-2		
3.909	3.901 (0.716)	49	504752	54.2220	54.222	80.00- 120.00	100.00
3.909	3.901 (0.716)	84	276688			25.63- 85.63	54.82
3.909	3.901 (0.716)	51	155921			0.46- 60.46	30.89

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.123	4.123 (0.756)	73	898077	48.3638	48.364	80.00- 120.00	100.00
4.123	4.123 (0.756)	57	270103			0.00- 59.13	30.08
4.123	4.123 (0.756)	41	267539			0.00- 58.91	29.79
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.152	4.145 (0.761)	98	180290	47.1627	47.163	80.00- 120.00	100.00
4.145	4.145 (0.760)	61	501718			242.97- 302.97	278.28
4.152	4.145 (0.761)	96	284678			127.33- 187.33	157.90
78 Hexane					CAS #: 110-54-3		
4.374	4.367 (0.802)	57	633803	50.5030	50.503	80.00- 120.00	100.00
4.374	4.367 (0.802)	43	409350			34.30- 94.30	64.59
4.374	4.367 (0.802)	86	75981			0.00- 42.17	11.99
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.850)	63	666903	52.3634	52.363	80.00- 120.00	100.00
4.639	4.639 (0.850)	65	201763			0.09- 60.09	30.25
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.682 (0.860)	86	85872	51.2692	51.269	80.00- 120.00	100.00
4.689	4.682 (0.860)	43	1194056			1535.12-1595.12	1390.51
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.957)	98	247795	57.9200	57.920	80.00- 120.00	100.00
5.219	5.219 (0.957)	96	382375			125.21- 185.21	154.31
5.219	5.219 (0.957)	61	604944			211.41- 271.41	244.13
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	162694	50.1957	50.196	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	816680			452.15- 512.15	501.97
5.248	5.248 (0.962)	57	62971			9.54- 69.54	38.71
99 Tetrahydrofuran					CAS #: 109-99-9		
5.449	5.441 (0.999)	42	443281	51.1355	51.136	80.00- 120.00	100.00
5.449	5.441 (0.999)	71	142526			2.09- 62.09	32.15
5.449	5.441 (0.999)	72	146579			3.61- 63.61	33.07
100 Chloroform					CAS #: 67-66-3		
5.513	5.513 (1.010)	83	698485	52.6782	52.678	80.00- 120.00	100.00
5.513	5.513 (1.010)	85	450087			35.60- 95.60	64.44
102 Cyclohexane					CAS #: 110-82-7		
5.628	5.628 (1.032)	84	445948	47.8677	47.868	80.00- 120.00	100.00
5.628	5.628 (1.032)	56	663539			115.43- 175.43	148.79
5.628	5.628 (1.032)	41	377669			53.65- 113.65	84.69

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	751481	49.6762	49.676	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	480333			33.21- 93.21	63.92
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.757	5.757 (1.055)	119	811698	51.7047	51.705	80.00- 120.00	100.00
5.757	5.757 (1.055)	117	857273			76.21- 136.21	105.61
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.964	5.964 (1.093)	57	2084716	50.6651	50.665	80.00- 120.00	100.00
5.964	5.964 (1.093)	56	679101			1.10- 61.10	32.58
5.964	5.964 (1.093)	41	592770			0.00- 57.08	28.43
116 Benzene					CAS #: 71-43-2		
5.971	5.972 (0.941)	78	956666	51.3800	51.380	80.00- 120.00	100.00
5.971	5.972 (0.941)	77	230146			0.00- 53.91	24.06
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.058 (0.955)	62	546782	53.2049	53.205	80.00- 120.00	100.00
6.057	6.058 (0.955)	64	166073			0.29- 60.29	30.37
121 Heptane					CAS #: 142-82-5		
6.136	6.129 (0.967)	71	362410	45.0272	45.027	80.00- 120.00	100.00
6.136	6.129 (0.967)	43	742096			172.43- 232.43	204.77
6.136	6.129 (0.967)	57	419292			85.51- 145.51	115.70
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	471166	52.5483	52.548	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	534566			79.80- 139.80	113.46
6.537	6.537 (1.030)	97	302954			33.64- 93.64	64.30
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	637300	48.3737	48.374	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	299619			16.94- 76.94	47.01
6.645	6.645 (1.047)	55	625135			65.75- 125.75	98.09
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.774	6.774 (1.068)	63	429463	50.2033	50.203	80.00- 120.00	100.00
6.774	6.774 (1.068)	62	314622			39.62- 99.62	73.26
6.774	6.767 (1.068)	41	274465			30.53- 90.53	63.91
136 1,4-Dioxane					CAS #: 123-91-1		
6.853	6.853 (1.080)	88	242228	52.2444	52.244	80.00- 120.00	100.00
6.853	6.853 (1.080)	58	202719			52.00- 112.00	83.69
6.853	6.853 (1.080)	57	67585			0.00- 56.29	27.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	775358	52.4610	52.461	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	507259			34.30- 94.30	65.42
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.375	7.368 (1.163)	75	608102	48.9924	48.992	80.00- 120.00	100.00
7.375	7.368 (1.163)	77	196922			2.71- 62.71	32.38
7.368	7.368 (1.161)	39	398248			35.07- 95.07	65.49
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.483	7.483 (1.180)	58	384499	50.5969	50.597	80.00- 120.00	100.00
7.483	7.483 (1.180)	43	1007840			230.95- 290.95	262.12
7.483	7.483 (1.180)	85	145624			7.98- 67.98	37.87
147 Toluene					CAS #: 108-88-3		
7.612	7.612 (1.200)	91	1323888	50.8553	50.855	80.00- 120.00	100.00
7.612	7.612 (1.200)	92	747493			27.38- 87.38	56.46
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.848	7.848 (0.893)	75	596511	53.7776	53.778	80.00- 120.00	100.00
7.848	7.848 (0.893)	77	189475			2.10- 62.10	31.76
7.848	7.848 (0.893)	39	373386			30.98- 90.98	62.59
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.999	7.999 (0.910)	97	458919	52.8345	52.834	80.00- 120.00	100.00
7.999	7.999 (0.910)	99	278479			31.34- 91.34	60.68
7.999	7.999 (0.910)	83	389157			57.20- 117.20	84.80
156 Tetrachloroethene					CAS #: 127-18-4		
8.049	8.049 (0.916)	166	809418	53.3962	53.396	80.00- 120.00	100.00
8.049	8.049 (0.916)	129	526418			35.33- 95.33	65.04
8.049	8.049 (0.916)	131	520850			35.36- 95.36	64.35
158 2-Hexanone					CAS #: 591-78-6		
8.171	8.171 (0.930)	58	539733	55.8371	55.837	80.00- 120.00	100.00
8.171	8.171 (0.930)	43	999647			156.39- 216.39	185.21
8.171	8.171 (0.930)	100	97076			0.00- 48.05	17.99
160 Dibromochloromethane					CAS #: 124-48-1		
8.314	8.314 (0.946)	129	961921	54.2258	54.226	80.00- 120.00	100.00
8.314	8.314 (0.946)	127	746576			48.12- 108.12	77.61
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.428	8.428 (0.959)	107	755535	53.6373	53.637	80.00- 120.00	100.00
8.428	8.428 (0.959)	109	713550			63.87- 123.87	94.44

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
8.808	8.808 (1.002)	112	1124849	52.1742	52.174	80.00- 120.00	100.00
8.808	8.808 (1.002)	114	363455			2.38- 62.38	32.31
8.808	8.808 (1.002)	77	588001			24.59- 84.59	52.27
167 Ethyl Benzene					CAS #: 100-41-4		
8.858	8.858 (1.008)	106	584769	51.5751	51.575	80.00- 120.00	100.00
8.858	8.858 (1.008)	91	1769996			276.53- 336.53	302.68
169 m,p-Xylene					CAS #: 108-38-3		
8.958	8.959 (1.020)	106	719604	52.1824	52.182	80.00- 120.00	100.00
8.958	8.959 (1.020)	91	1398060			166.59- 226.59	194.28
171 o-Xylene					CAS #: 95-47-6		
9.295	9.295 (1.058)	106	692649	52.3230	52.323	80.00- 120.00	100.00
9.295	9.295 (1.058)	91	1430976			176.08- 236.08	206.59
172 Styrene					CAS #: 100-42-5		
9.317	9.317 (1.060)	104	1141832	57.5782	57.578	80.00- 120.00	100.00
9.317	9.310 (1.060)	78	538976			17.58- 77.58	47.20
174 Bromoform					CAS #: 75-25-2		
9.510	9.503 (1.082)	173	1567176	71.9316	71.932	80.00- 120.00	100.00
9.510	9.503 (1.082)	171	800958			21.36- 81.36	51.11
175 Cumene					CAS #: 98-82-8		
9.589	9.582 (1.091)	105	2146244	51.1716	51.172	80.00- 120.00	100.00
9.589	9.582 (1.091)	120	594438			0.00- 57.79	27.70
9.589	9.582 (1.091)	51	246660			0.00- 41.33	11.49
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.890	9.883 (1.126)	83	1076082	51.1248	51.125	80.00- 120.00	100.00
9.890	9.883 (1.126)	85	690575			34.22- 94.22	64.17
182 Propylbenzene					CAS #: 103-65-1		
9.933	9.926 (1.130)	91	2610704	52.9365	52.936	80.00- 120.00	100.00
9.933	9.926 (1.130)	120	638362			0.00- 54.34	24.45
9.933	9.926 (1.130)	105	94275			0.00- 33.54	3.61
188 4-Ethyltoluene					CAS #: 622-96-8		
10.026	10.019 (1.141)	120	704410	52.0129	52.013	80.00- 120.00	100.00
10.026	10.019 (1.141)	105	2216909			279.66- 339.66	314.72
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.083	10.069 (1.148)	120	926415	53.9423	53.942	80.00- 120.00	100.00
10.083	10.069 (1.148)	105	1889057			169.72- 229.72	203.91

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 (1.184)	120	859807	54.3974	54.397	80.00- 120.00	100.00
10.405	10.384 (1.184)	105	1823431			185.64- 245.64	212.07
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.685	10.671 (1.216)	146	1426751	52.9625	52.962	80.00- 120.00	100.00
10.685	10.671 (1.216)	148	904807			34.23- 94.23	63.42
10.685	10.663 (1.216)	111	522180			7.40- 67.40	36.60
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.764	10.749 (1.225)	146	1439211	52.6750	52.675	80.00- 120.00	100.00
10.764	10.749 (1.225)	148	907090			33.60- 93.60	63.03
10.764	10.742 (1.225)	111	505294			4.87- 64.87	35.11
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.885	10.864 (1.239)	91	1799419	52.7617	52.762	80.00- 120.00	100.00
10.885	10.864 (1.239)	126	425158			0.00- 53.22	23.63
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.093	11.072 (1.262)	146	1376877	53.6182	53.618	80.00- 120.00	100.00
11.093	11.072 (1.262)	148	867462			33.66- 93.66	63.00
11.093	11.072 (1.262)	111	523388			7.92- 67.92	38.01
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.497	12.461 (1.422)	180	1489664	68.4949	68.495	80.00- 120.00	100.00(R)
12.497	12.468 (1.422)	182	1434959			66.61- 126.61	96.33
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.597	12.562 (1.434)	225	1288443	68.0605	68.060	80.00- 120.00	100.00(R)
12.597	12.562 (1.434)	223	802517			32.66- 92.66	62.29
228 Naphthalene					CAS #: 91-20-3		
12.769	12.726 (1.453)	128	294178	7.88608	7.886	80.00- 120.00	100.00(R)
12.769	12.726 (1.453)	127	36827			0.00- 42.82	12.52

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 08-Feb-2016 11:59

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p020806.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msdp.i/08feb16.b/p16q0201a.m
Misc Info: 50ppbv(100ppbv)

Calibration Date: 08-FEB-2016
Calibration Time: 10:35
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

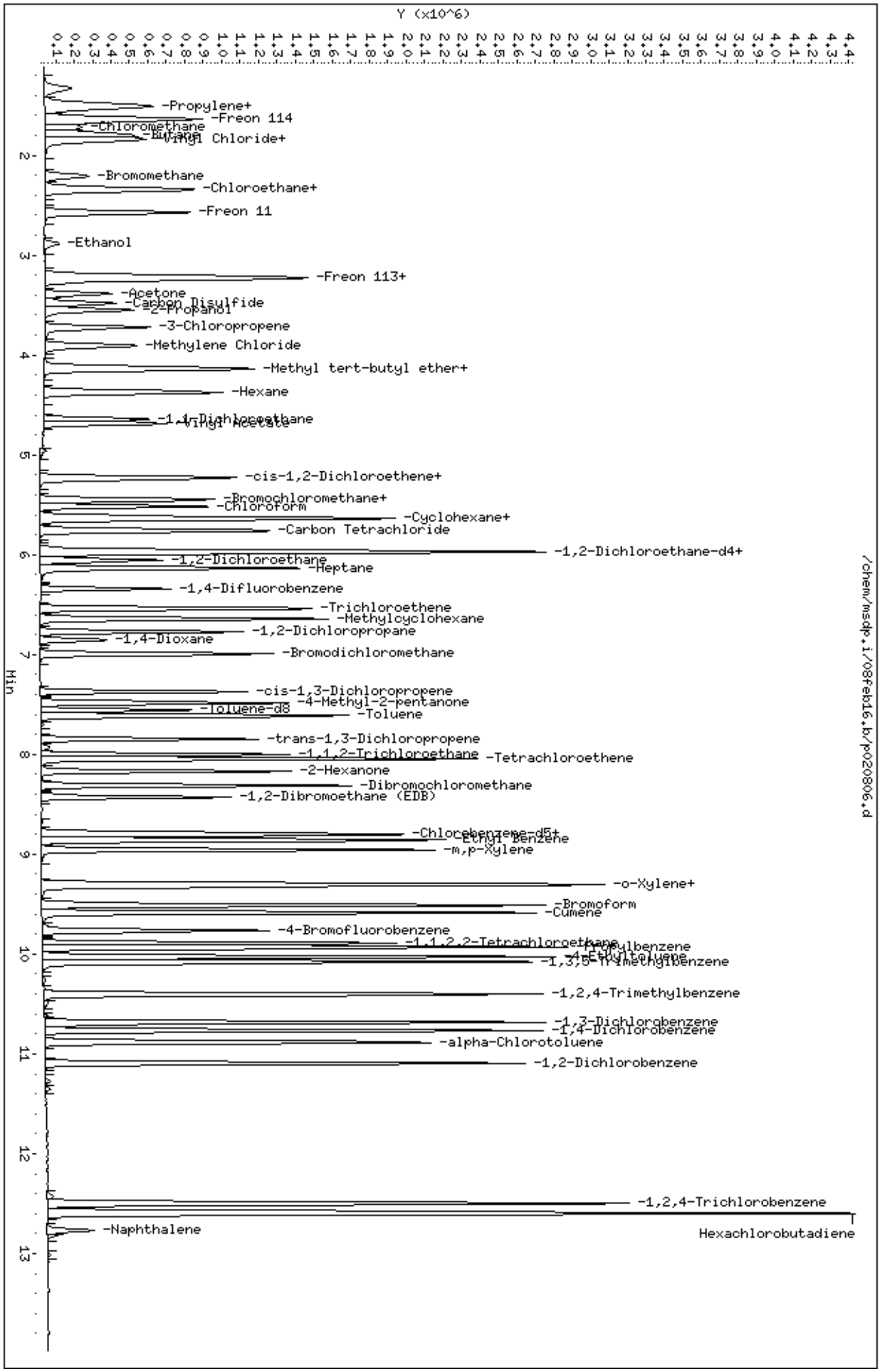
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	152495	91497	213493	149851	-1.73
123 1,4-Difluorobenze	608067	364840	851294	610936	0.47
163 Chlorobenzene-d5	577195	346317	808073	572955	-0.73

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	8.79	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/08feb16.b/p020806.d
Date : 08-FEB-2016 11:23
Client ID: LCSD
Sample Info: 100ml 2759-109A
Column phase: RTX-624

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



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Client Sample ID: LCS

Lab ID#: 1602064B-21B

EPA METHOD TO-15 GC/MS

File Name:	**14021503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 11:09 AM**	

Compound	%Recovery	Method Limits
Freon 12	81	70-130
Freon 114	87	70-130
Chloromethane	76	70-130
Vinyl Chloride	82	70-130
1,3-Butadiene	78	70-130
Bromomethane	76	70-130
Chloroethane	86	70-130
Freon 11	82	70-130
Ethanol	65 Q	70-130
Freon 113	79	70-130
1,1-Dichloroethene	78	70-130
Acetone	84	70-130
2-Propanol	87	70-130
Carbon Disulfide	71	70-130
3-Chloropropene	74	70-130
Methylene Chloride	78	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	81	70-130
Hexane	80	70-130
1,1-Dichloroethane	82	70-130
2-Butanone (Methyl Ethyl Ketone)	75	70-130
cis-1,2-Dichloroethene	78	70-130
Tetrahydrofuran	83	70-130
Chloroform	80	70-130
1,1,1-Trichloroethane	82	70-130
Cyclohexane	78	70-130
Carbon Tetrachloride	83	70-130
2,2,4-Trimethylpentane	82	70-130
Benzene	83	70-130
1,2-Dichloroethane	79	70-130
Heptane	80	70-130
Trichloroethene	73	70-130
1,2-Dichloropropane	82	70-130
1,4-Dioxane	79	70-130
Bromodichloromethane	81	70-130
cis-1,3-Dichloropropene	85	70-130
4-Methyl-2-pentanone	89	70-130
Toluene	78	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	84	70-130
Tetrachloroethene	81	70-130
2-Hexanone	80	70-130

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Client Sample ID: LCS

Lab ID#: 1602064B-21B

EPA METHOD TO-15 GC/MS

File Name:	**14021503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 11:09 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	81	70-130
1,2-Dibromoethane (EDB)	81	70-130
Chlorobenzene	81	70-130
Ethyl Benzene	82	70-130
m,p-Xylene	82	70-130
o-Xylene	84	70-130
Styrene	86	70-130
Bromoform	83	70-130
Cumene	86	70-130
1,1,2,2-Tetrachloroethane	86	70-130
Propylbenzene	83	70-130
4-Ethyltoluene	83	70-130
1,3,5-Trimethylbenzene	83	70-130
1,2,4-Trimethylbenzene	83	70-130
1,3-Dichlorobenzene	81	70-130
1,4-Dichlorobenzene	78	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	79	70-130
1,2,4-Trichlorobenzene	73	70-130
Hexachlorobutadiene	86	70-130
Naphthalene	72	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Report Date: 15-Feb-2016 12:17

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15feb16a
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: LCS
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: 100ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	100.00	82.612	82.61	60-140
11 Freon 12	100.00	81.004	81.00	70-130
15 Freon 114	100.00	87.183	87.18	70-130
17 Chloromethane	100.00	75.982	75.98	70-130
23 Butane	100.00	86.191	86.19	60-140
25 Vinyl Chloride	100.00	82.076	82.08	70-130
26 1,3-Butadiene	100.00	78.512	78.51	70-130
29 Bromomethane	100.00	76.080	76.08	70-130
30 Chloroethane	100.00	85.742	85.74	70-130
31 Isopentane	100.00	84.648	84.65	60-140
35 Freon 11	100.00	82.074	82.07	70-130
42 Ethanol	100.00	64.634	64.63*	70-130
49 Freon 113	100.00	79.175	79.17	70-130
50 1,1-Dichloroethene	100.00	77.915	77.92	70-130
52 Acetone	100.00	83.641	83.64	70-130
56 Carbon Disulfide	100.00	70.991	70.99	70-130
57 2-Propanol	100.00	87.151	87.15	70-130
58 3-Chloropropene	100.00	74.380	74.38	70-130
66 Methylene Chloride	100.00	77.992	77.99	70-130
72 Methyl tert-butyl	100.00	92.107	92.11	70-130
73 trans-1,2-Dichloro	85.000	69.035	81.22	70-130
78 Hexane	100.00	79.948	79.95	70-130
82 1,1-Dichloroethane	100.00	81.798	81.80	70-130
86 Vinyl Acetate	100.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	113.00	88.279	78.12	70-130
92 2-Butanone	100.00	75.253	75.25	70-130
99 Tetrahydrofuran	100.00	82.955	82.96	70-130
100 Chloroform	100.00	80.027	80.03	70-130
103 1,1,1-Trichloroeth	100.00	82.286	82.29	70-130
106 Carbon Tetrachlori	100.00	83.066	83.07	70-130
102 Cyclohexane	100.00	77.864	77.86	70-130
113 2,2,4-Trimethylpen	100.00	82.297	82.30	70-130
116 Benzene	100.00	82.631	82.63	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	100.00	79.455	79.46	70-130
121 Heptane	100.00	79.749	79.75	70-130
125 Trichloroethene	100.00	72.664	72.66	70-130
127 Methylcyclohexane	100.00	75.472	75.47	60-140
132 1,2-Dichloropropan	100.00	82.200	82.20	70-130
136 1,4-Dioxane	100.00	78.653	78.65	70-130
138 Bromodichlorometha	100.00	80.867	80.87	70-130
144 cis-1,3-Dichloropr	100.00	84.898	84.90	70-130
145 4-Methyl-2-pentano	100.00	89.052	89.05	70-130
147 Toluene	100.00	78.495	78.50	70-130
150 trans-1,3-Dichloro	100.00	93.599	93.60	70-130
155 1,1,2-Trichloroeth	100.00	83.799	83.80	70-130
156 Tetrachloroethene	100.00	81.326	81.33	70-130
158 2-Hexanone	100.00	80.396	80.40	70-130
160 Dibromochlorometha	100.00	81.326	81.33	70-130
161 1,2-Dibromoethane	100.00	81.397	81.40	70-130
165 Chlorobenzene	100.00	81.116	81.12	70-130
167 Ethyl Benzene	100.00	81.590	81.59	70-130
169 m,p-Xylene	100.00	82.400	82.40	70-130
171 o-Xylene	100.00	84.463	84.46	70-130
172 Styrene	100.00	86.104	86.10	70-130
174 Bromoform	130.00	108.38	83.37	70-130
175 Cumene	100.00	86.198	86.20	70-130
181 1,1,2,2-Tetrachlor	100.00	86.126	86.13	70-130
182 Propylbenzene	100.00	82.695	82.69	70-130
188 4-Ethyltoluene	100.00	82.800	82.80	70-130
190 1,3,5-Trimethylben	100.00	83.184	83.18	70-130
196 1,2,4-Trimethylben	100.00	82.960	82.96	70-130
208 1,3-Dichlorobenzen	100.00	80.903	80.90	70-130
209 1,4-Dichlorobenzen	100.00	78.402	78.40	70-130
212 alpha-Chlorotoluen	100.00	96.438	96.44	70-130
214 1,2-Dichlorobenzen	100.00	78.971	78.97	70-130
226 1,2,4-Trichloroben	100.00	73.168	73.17	70-130
227 Hexachlorobutadien	100.00	86.032	86.03	70-130
228 Naphthalene	10.000	7.203	72.03	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	400.46	100.12	70-130
$ 146 Toluene-d8	400.00	396.28	99.07	70-130
$ 177 4-Bromofluorobenze	400.00	415.15	103.79	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15feb16.b/14021503.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 15-FEB-2016 11:09
Operator : js Inst ID: msd14.i
Smp Info : 50mL #2759-104A
Misc Info : 100ppbv (100ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/15feb16.b/14650212a.m
Meth Date : 15-Feb-2016 11:04 jscarbro Quant Type: ISTD
Cal Date : 12-FEB-2016 14:28 Cal File: 14021213.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	132242	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	103189			46.39- 106.39	78.03
4.739	4.739 (1.000)	49	238982			150.71- 210.71	180.72
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	603588	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	106265			0.00- 47.48	17.61
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	485314	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	335990			37.59- 97.59	69.23
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	240844	400.464	400.46	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	124082			24.07- 84.07	51.52

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	662439	396.284	396.28	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	80167			0.00- 41.71	12.10
7.621	7.621 (1.304)	100	421684			32.73- 92.73	63.66
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	252611	415.152	415.15	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	427083			142.84- 202.84	169.07
10.937	10.937 (1.114)	176	241185			67.70- 127.70	95.48
9 Propylene					CAS #: 115-07-1		
1.241	1.227 (0.262)	41	37378	82.6120	82.612	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	24979			37.96- 97.96	66.83
1.227	1.241 (0.259)	39	24369			36.73- 96.73	65.20
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	128953	81.0042	81.004	80.00- 120.00	100.00
1.269	1.255 (0.268)	87	42700			1.63- 61.63	33.11
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	77384	87.1833	87.183	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	24111			2.50- 62.50	31.16
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	52734	75.9815	75.982	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	16523			1.39- 61.39	31.33
23 Butane					CAS #: 106-97-8		
1.479	1.465 (0.312)	58	14448	86.1911	86.191	80.00- 120.00	100.00
1.465	1.465 (0.309)	43	76603			511.27- 571.27	530.20
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	60009	82.0763	82.076	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	18039			0.78- 60.78	30.06
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	44980	78.5119	78.512	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	35738			41.76- 101.76	79.45
29 Bromomethane					CAS #: 74-83-9		
1.814	1.815 (0.383)	94	30829	76.0798	76.080	80.00- 120.00	100.00
1.814	1.815 (0.383)	96	29284			66.30- 126.30	94.99
1.814	1.815 (0.383)	79	5065			0.00- 44.41	16.43
30 Chloroethane					CAS #: 75-00-3		
1.898	1.885 (0.401)	64	28328	85.7420	85.742	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.885 (0.401)	66	8889			2.16- 62.16	31.38
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	56121	84.6479	84.648	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	47918			52.83- 112.83	85.38
1.912	1.912 (0.404)	72	4810			0.00- 38.88	8.57
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	117328	82.0745	82.074	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	75673			34.93- 94.93	64.50
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	21309	64.6340	64.634	80.00- 120.00	100.00(R)
2.360	2.360 (0.498)	43	5206			0.00- 52.67	24.43
2.360	2.360 (0.498)	46	8530			12.37- 72.37	40.03
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	63693	79.1747	79.175	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	39034			34.36- 94.36	61.28
2.584	2.584 (0.545)	101	99308			119.53- 179.53	155.92
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	97162	77.9155	77.915	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	49372			21.57- 81.57	50.81
2.612	2.612 (0.551)	98	31186			1.98- 61.98	32.10
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	29481	83.6408	83.641	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	78667			233.69- 293.69	266.84
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	127103	70.9910	70.991	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	78713	87.1514	87.151	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	17546			0.00- 53.85	22.29
2.878	2.878 (0.607)	59	3476			0.00- 34.34	4.42
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	17776	74.3798	74.380	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	45822			227.89- 287.89	257.77
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	63647	77.9923	77.992	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	45409			40.30- 100.30	71.35

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

   66 Methylene Chloride (continued)
  3.158   3.158 (0.666)    51     20297                     1.79-  61.79    31.89
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                      CAS #: 1634-04-4
  3.354   3.354 (0.708)    73     49986 92.1073   92.107  80.00- 120.00   100.00
  3.354   3.354 (0.708)    57     13006                    0.00-  58.10    26.02
  3.354   3.354 (0.708)    41     12813                    0.00-  57.12    25.63
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                     CAS #: 156-60-5
  3.382   3.382 (0.714)    96     41589 69.0346   69.035  80.00- 120.00   100.00
  3.382   3.382 (0.714)    61     72864                  142.56- 202.56   175.20
  3.382   3.382 (0.714)    98     25032                   36.64-  96.64    60.19
-------------------------------------------------------------------------------
   78 Hexane                                       CAS #: 110-54-3
  3.577   3.578 (0.755)    57     90458 79.9482   79.948  80.00- 120.00   100.00
  3.577   3.578 (0.755)    43     51281                   21.59-  81.59    56.69
  3.577   3.578 (0.755)    86     13802                    0.00-  46.40    15.26
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                           CAS #: 75-34-3
  3.857   3.857 (0.814)    63    103883 81.7975   81.798  80.00- 120.00   100.00
  3.857   3.857 (0.814)    65     32540                    0.00-  59.48    31.32
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                CAS #: 108-05-4
  3.577   3.578 (0.755)    86     13802                   80.00- 120.00   100.00(aR)
  3.577   3.578 (0.755)    43     51281                  284.51- 344.51   371.55
  3.577   3.578 (0.755)    42     24896                  138.34- 198.34   180.38
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                       CAS #: 156-59-2
  4.487   4.487 (0.947)    61     86505 88.2792   88.279  80.00- 120.00   100.00
  4.487   4.487 (0.947)    96     56724                   32.15-  92.15    65.57
  4.487   4.487 (0.947)    98     35601                   10.13-  70.13    41.15
-------------------------------------------------------------------------------
   92 2-Butanone                                   CAS #: 78-93-3
  4.515   4.515 (0.953)    72     20063 75.2528   75.253  80.00- 120.00   100.00
  4.515   4.515 (0.953)    43     88617                  379.79- 439.79   441.69
  4.515   4.515 (0.953)    57      8428                    6.25-  66.25    42.01
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                              CAS #: 109-99-9
  4.725   4.725 (0.997)    42     51902 82.9553   82.955  80.00- 120.00   100.00
  4.725   4.725 (0.997)    71     19012                   11.50-  71.50    36.63
  4.725   4.725 (0.997)    72     22274                   12.84-  72.84    42.92
-------------------------------------------------------------------------------
  100 Chloroform                                   CAS #: 67-66-3
  4.823   4.823 (1.018)    83    106436 80.0273   80.027  80.00- 120.00   100.00
  4.823   4.823 (1.018)    85     66105                   32.14-  92.14    62.11
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	67953	77.8636	77.864	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	97715			99.79- 159.79	143.80
4.921	4.921 (1.038)	41	41459			28.40- 88.40	61.01
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	93305	82.2861	82.286	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	58296			36.51- 96.51	62.48
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.089	5.075 (1.074)	119	81900	83.0666	83.066	80.00- 120.00	100.00
5.089	5.075 (1.074)	117	85650			75.71- 135.71	104.58
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	294842	82.2967	82.297	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	104234			4.19- 64.19	35.35
5.326	5.326 (1.124)	41	63360			0.00- 50.55	21.49
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	160455	82.6312	82.631	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	36832			0.00- 53.33	22.95
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	75141	79.4551	79.455	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	24634			1.49- 61.49	32.78
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	53242	79.7487	79.749	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	88056			128.82- 188.82	165.39
5.564	5.564 (0.952)	100	17088			0.00- 59.89	32.09
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	68661	72.6645	72.664	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	59700			53.70- 113.70	86.95
6.082	6.082 (1.041)	97	45449			34.03- 94.03	66.19
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	89556	75.4724	75.472	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	42652			15.61- 75.61	47.63
6.194	6.194 (1.060)	55	90965			65.29- 125.29	101.57
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	66952	82.2000	82.200	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	49284			44.72- 104.72	73.61
6.390	6.390 (1.093)	41	31211			18.10- 78.10	46.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	32865	78.6527	78.653	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	28692			60.63- 120.63	87.30
6.530	6.530 (1.117)	57	9317			0.00- 59.33	28.35
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.726 (1.151)	83	114435	80.8670	80.867	80.00- 120.00	100.00
6.726	6.726 (1.151)	85	71052			28.84- 88.84	62.09
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	74644	84.8986	84.898	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	23691			2.17- 62.17	31.74
7.327	7.327 (1.254)	39	33262			14.65- 74.65	44.56
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	17427	89.0524	89.052	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	105035			589.74- 649.74	602.71
7.565	7.565 (1.294)	58	57980			296.38- 356.38	332.70
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	178287	78.4950	78.495	80.00- 120.00	100.00
7.733	7.719 (1.323)	92	105489			28.91- 88.91	59.17
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	51972	93.5991	93.599	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	16760			2.18- 62.18	32.25
8.293	8.293 (0.845)	39	24775			10.13- 70.13	47.67
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.615 (0.877)	97	64348	83.7992	83.799	80.00- 120.00	100.00
8.614	8.615 (0.877)	99	40259			34.34- 94.34	62.56
8.614	8.615 (0.877)	83	58402			63.48- 123.48	90.76
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.629 (0.879)	166	63176	81.3262	81.326	80.00- 120.00	100.00
8.614	8.615 (0.877)	129	51403			51.36- 111.36	81.36
8.614	8.615 (0.877)	131	51837			49.19- 109.19	82.05
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	58453	80.3963	80.396	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	92504			125.38- 185.38	158.25
9.006	9.006 (0.917)	100	10265			0.00- 48.37	17.56
160 Dibromochloromethane					CAS #: 124-48-1		
9.146	9.146 (0.932)	129	94626	81.3265	81.326	80.00- 120.00	100.00
9.146	9.146 (0.932)	127	72804			47.63- 107.63	76.94

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	85242	81.3973	81.397	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	81444			61.71- 121.71	95.54
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	134118	81.1158	81.116	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	43014			1.37- 61.37	32.07
9.846	9.846 (1.003)	77	92032			39.20- 99.20	68.62
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	66366	81.5896	81.590	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	228567			310.29- 370.29	344.40
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.070 (1.027)	106	80189	82.3997	82.400	80.00- 120.00	100.00
10.084	10.070 (1.027)	91	171711			185.45- 245.45	214.13
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	76057	84.4628	84.463	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	174464			196.57- 256.57	229.39
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	121124	86.1036	86.104	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	67582			26.62- 86.62	55.80
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	101140	108.378	108.38	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	51045			22.90- 82.90	50.47
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	241858	86.1983	86.198	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	59022			0.00- 55.02	24.40
10.769	10.769 (1.097)	51	29908			0.00- 41.92	12.37
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	140633	86.1264	86.126	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	86099			28.86- 88.86	61.22
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	320341	82.6946	82.695	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	62411			0.00- 49.36	19.48
11.105	11.105 (1.131)	105	11972			0.00- 33.72	3.74
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	240506	82.8001	82.800	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	64401			0.00- 57.25	26.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	208297	83.1843	83.184	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	91946			15.00- 75.00	44.14
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	188797	82.9602	82.960	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	76042			10.76- 70.76	40.28
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	118423	80.9034	80.903	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	75412			32.32- 92.32	63.68
11.693	11.693 (1.191)	111	55139			17.13- 77.13	46.56
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	120557	78.4016	78.402	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	79393			33.76- 93.76	65.86
11.763	11.763 (1.198)	111	54298			14.33- 74.33	45.04
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.861 (1.208)	91	114014	96.4381	96.438	80.00- 120.00	100.00
11.861	11.861 (1.208)	126	20418			0.00- 48.64	17.91
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.987	11.987 (1.221)	146	116202	78.9707	78.971	80.00- 120.00	100.00
11.987	11.987 (1.221)	148	70312			32.13- 92.13	60.51
11.987	11.987 (1.221)	111	55998			17.47- 77.47	48.19
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	65999	73.1676	73.168	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	63492			61.06- 121.06	96.20
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	55293	86.0315	86.032	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	34422			36.08- 96.08	62.25
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	14630	7.20341	7.203	80.00- 120.00	100.00(a)
12.980	12.966 (1.322)	127	1709			0.00- 42.87	11.68

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14021503.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: 100ppbv (100ppbv)

Calibration Date: 15-FEB-2016
Calibration Time: 10:38
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

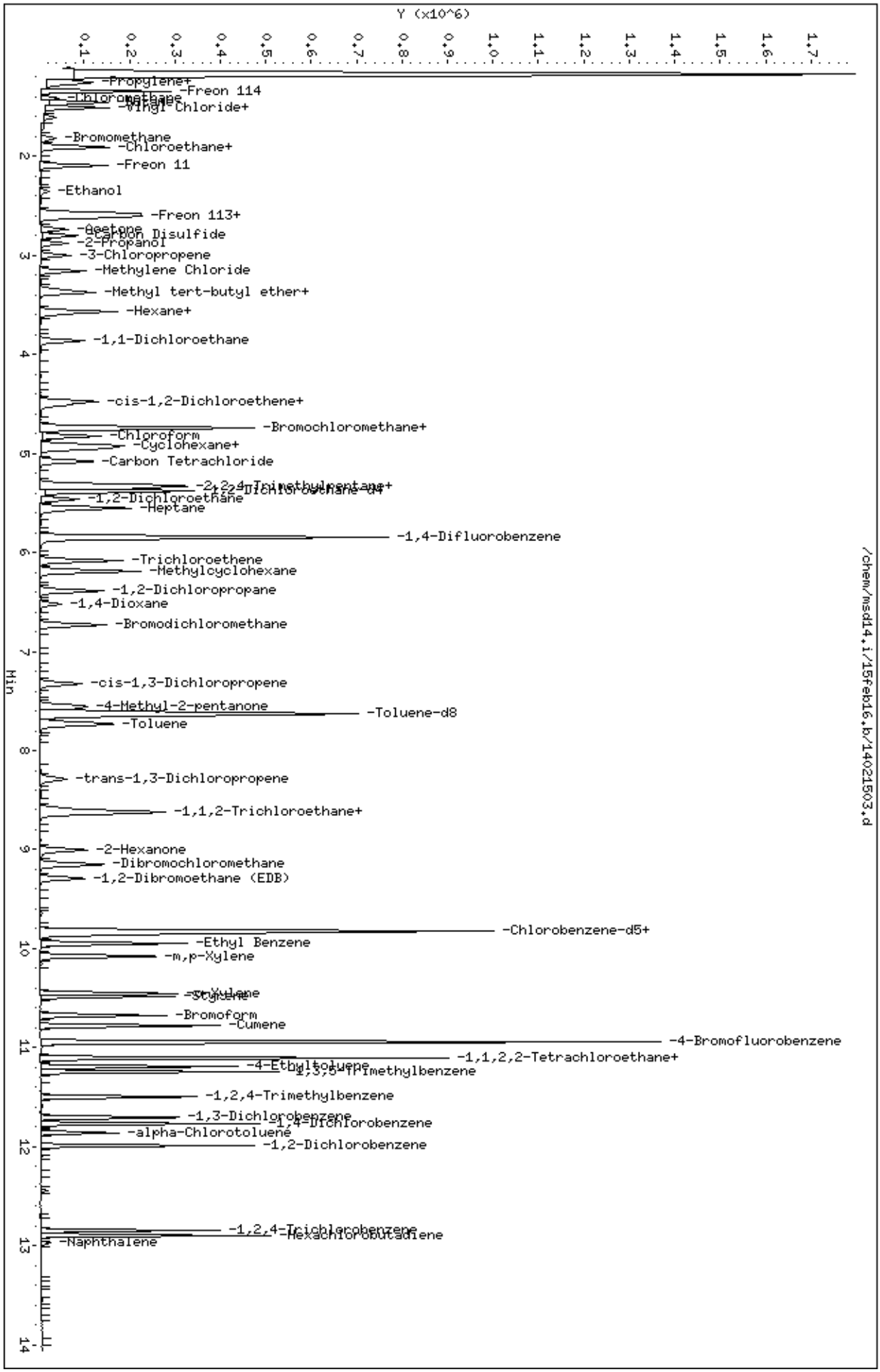
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	134188	80513	187863	132242	-1.45
123 1,4-Difluorobenze	615834	369500	862168	603588	-1.99
163 Chlorobenzene-d5	494859	296915	692803	485314	-1.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/15feb16.b/14021503.d
Date : 15-FEB-2016 11:09
Client ID: LCS
Sample Info: 50mL #2759-104A
Column phase: RTX-624

Instrument: msd14.i
Operator: js
Column diameter: 0.18



eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1602064B-21BB

EPA METHOD TO-15 GC/MS

File Name:	**14021505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 11:47 AM**	

Compound	%Recovery	Method Limits
Freon 12	84	70-130
Freon 114	87	70-130
Chloromethane	76	70-130
Vinyl Chloride	84	70-130
1,3-Butadiene	80	70-130
Bromomethane	72	70-130
Chloroethane	87	70-130
Freon 11	83	70-130
Ethanol	64 Q	70-130
Freon 113	81	70-130
1,1-Dichloroethene	80	70-130
Acetone	86	70-130
2-Propanol	89	70-130
Carbon Disulfide	74	70-130
3-Chloropropene	74	70-130
Methylene Chloride	80	70-130
Methyl tert-butyl ether	81	70-130
trans-1,2-Dichloroethene	85	70-130
Hexane	81	70-130
1,1-Dichloroethane	83	70-130
2-Butanone (Methyl Ethyl Ketone)	83	70-130
cis-1,2-Dichloroethene	82	70-130
Tetrahydrofuran	86	70-130
Chloroform	82	70-130
1,1,1-Trichloroethane	83	70-130
Cyclohexane	80	70-130
Carbon Tetrachloride	84	70-130
2,2,4-Trimethylpentane	84	70-130
Benzene	80	70-130
1,2-Dichloroethane	79	70-130
Heptane	77	70-130
Trichloroethene	71	70-130
1,2-Dichloropropane	82	70-130
1,4-Dioxane	76	70-130
Bromodichloromethane	77	70-130
cis-1,3-Dichloropropene	79	70-130
4-Methyl-2-pentanone	88	70-130
Toluene	78	70-130
trans-1,3-Dichloropropene	92	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	79	70-130
2-Hexanone	76	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1602064B-21BB

EPA METHOD TO-15 GC/MS

File Name:	**14021505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/15/16 11:47 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	78	70-130
1,2-Dibromoethane (EDB)	83	70-130
Chlorobenzene	80	70-130
Ethyl Benzene	78	70-130
m,p-Xylene	82	70-130
o-Xylene	82	70-130
Styrene	80	70-130
Bromoform	80	70-130
Cumene	81	70-130
1,1,2,2-Tetrachloroethane	84	70-130
Propylbenzene	81	70-130
4-Ethyltoluene	80	70-130
1,3,5-Trimethylbenzene	82	70-130
1,2,4-Trimethylbenzene	79	70-130
1,3-Dichlorobenzene	78	70-130
1,4-Dichlorobenzene	78	70-130
alpha-Chlorotoluene	88	70-130
1,2-Dichlorobenzene	75	70-130
1,2,4-Trichlorobenzene	75	70-130
Hexachlorobutadiene	80	70-130
Naphthalene	73	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130

Report Date: 15-Feb-2016 13:58

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15feb16a
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: LCSD
SpikeList File: AT12Bromoform.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: 100ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	100.00	83.670	83.67	60-140
11 Freon 12	100.00	84.356	84.36	70-130
15 Freon 114	100.00	86.653	86.65	70-130
17 Chloromethane	100.00	76.427	76.43	70-130
23 Butane	100.00	82.746	82.75	60-140
25 Vinyl Chloride	100.00	83.735	83.73	70-130
26 1,3-Butadiene	100.00	79.671	79.67	70-130
29 Bromomethane	100.00	72.017	72.02	70-130
30 Chloroethane	100.00	87.332	87.33	70-130
31 Isopentane	100.00	86.139	86.14	60-140
35 Freon 11	100.00	82.625	82.63	70-130
42 Ethanol	100.00	63.514	63.51*	70-130
49 Freon 113	100.00	80.840	80.84	70-130
50 1,1-Dichloroethene	100.00	79.942	79.94	70-130
52 Acetone	100.00	85.605	85.61	70-130
56 Carbon Disulfide	100.00	73.679	73.68	70-130
57 2-Propanol	100.00	88.954	88.95	70-130
58 3-Chloropropene	100.00	74.350	74.35	70-130
66 Methylene Chloride	100.00	79.781	79.78	70-130
72 Methyl tert-butyl	100.00	80.654	80.65	70-130
73 trans-1,2-Dichloro	85.000	72.445	85.23	70-130
78 Hexane	100.00	80.752	80.75	70-130
82 1,1-Dichloroethane	100.00	83.018	83.02	70-130
86 Vinyl Acetate	100.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	113.00	92.290	81.67	70-130
92 2-Butanone	100.00	83.320	83.32	70-130
99 Tetrahydrofuran	100.00	86.144	86.14	70-130
100 Chloroform	100.00	82.019	82.02	70-130
103 1,1,1-Trichloroeth	100.00	82.820	82.82	70-130
106 Carbon Tetrachlori	100.00	84.114	84.11	70-130
102 Cyclohexane	100.00	80.233	80.23	70-130
113 2,2,4-Trimethylpen	100.00	84.224	84.22	70-130
116 Benzene	100.00	79.503	79.50	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	100.00	78.882	78.88	70-130
121 Heptane	100.00	76.929	76.93	70-130
125 Trichloroethene	100.00	71.083	71.08	70-130
127 Methylcyclohexane	100.00	74.101	74.10	60-140
132 1,2-Dichloropropan	100.00	82.354	82.35	70-130
136 1,4-Dioxane	100.00	76.477	76.48	70-130
138 Bromodichlorometha	100.00	76.825	76.83	70-130
144 cis-1,3-Dichloropr	100.00	79.209	79.21	70-130
145 4-Methyl-2-pentano	100.00	87.515	87.51	70-130
147 Toluene	100.00	78.047	78.05	70-130
150 trans-1,3-Dichloro	100.00	92.426	92.43	70-130
155 1,1,2-Trichloroeth	100.00	80.183	80.18	70-130
156 Tetrachloroethene	100.00	79.330	79.33	70-130
158 2-Hexanone	100.00	75.918	75.92	70-130
160 Dibromochlorometha	100.00	78.008	78.01	70-130
161 1,2-Dibromoethane	100.00	82.994	82.99	70-130
165 Chlorobenzene	100.00	79.736	79.74	70-130
167 Ethyl Benzene	100.00	78.160	78.16	70-130
169 m,p-Xylene	100.00	81.839	81.84	70-130
171 o-Xylene	100.00	82.488	82.49	70-130
172 Styrene	100.00	79.906	79.91	70-130
174 Bromoform	130.00	103.83	79.87	70-130
175 Cumene	100.00	81.248	81.25	70-130
181 1,1,2,2-Tetrachlor	100.00	83.979	83.98	70-130
182 Propylbenzene	100.00	81.174	81.17	70-130
188 4-Ethyltoluene	100.00	79.656	79.66	70-130
190 1,3,5-Trimethylben	100.00	81.572	81.57	70-130
196 1,2,4-Trimethylben	100.00	79.441	79.44	70-130
208 1,3-Dichlorobenzen	100.00	78.438	78.44	70-130
209 1,4-Dichlorobenzen	100.00	77.730	77.73	70-130
212 alpha-Chlorotoluen	100.00	88.496	88.50	70-130
214 1,2-Dichlorobenzen	100.00	75.142	75.14	70-130
226 1,2,4-Trichloroben	100.00	75.277	75.28	70-130
227 Hexachlorobutadien	100.00	79.835	79.84	70-130
228 Naphthalene	10.000	7.323	73.23	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	415.42	103.86	70-130
$ 146 Toluene-d8	400.00	392.60	98.15	70-130
$ 177 4-Bromofluorobenze	400.00	414.33	103.58	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15feb16.b/14021505.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 15-FEB-2016 11:47
Operator : js Inst ID: msd14.i
Smp Info : 50mL #2759-104A
Misc Info : 100ppbv (100ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/15feb16.b/14650212a.m
Meth Date : 15-Feb-2016 11:04 jscarbro Quant Type: ISTD
Cal Date : 12-FEB-2016 14:28 Cal File: 14021213.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	126832	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	102790			46.39- 106.39	81.04
4.739	4.739 (1.000)	49	238071			150.71- 210.71	187.71
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	605876	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	102202			0.00- 47.48	16.87
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	493650	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	335081			37.59- 97.59	67.88
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	239621	415.425	415.42	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	126685			24.07- 84.07	52.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	658761	392.596	392.60	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	77134			0.00- 41.71	11.71
7.621	7.621 (1.304)	100	425407			32.73- 92.73	64.58
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.937	10.937 (1.114)	174	256439	414.326	414.33	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	427575			142.84- 202.84	166.74
10.937	10.937 (1.114)	176	243688			67.70- 127.70	95.03
9 Propylene					CAS #: 115-07-1		
1.227	1.227 (0.259)	41	36308	83.6700	83.670	80.00- 120.00	100.00
1.227	1.241 (0.259)	42	24102			37.96- 97.96	66.38
1.241	1.241 (0.262)	39	24546			36.73- 96.73	67.60
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	128796	84.3566	84.356	80.00- 120.00	100.00
1.269	1.255 (0.268)	87	40465			1.63- 61.63	31.42
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	73767	86.6532	86.653	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	24122			2.50- 62.50	32.70
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	50873	76.4267	76.427	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	16966			1.39- 61.39	33.35
23 Butane					CAS #: 106-97-8		
1.478	1.465 (0.312)	58	13303	82.7456	82.746	80.00- 120.00	100.00
1.478	1.465 (0.312)	43	74545			511.27- 571.27	560.36
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.507 (0.318)	62	58717	83.7347	83.735	80.00- 120.00	100.00
1.506	1.507 (0.318)	64	17473			0.78- 60.78	29.76
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.521 (0.321)	54	43777	79.6714	79.671	80.00- 120.00	100.00
1.520	1.521 (0.321)	39	32427			41.76- 101.76	74.07
29 Bromomethane					CAS #: 74-83-9		
1.814	1.815 (0.383)	94	27989	72.0175	72.017	80.00- 120.00	100.00
1.814	1.815 (0.383)	96	28207			66.30- 126.30	100.78
1.814	1.815 (0.383)	79	5106			0.00- 44.41	18.24
30 Chloroethane					CAS #: 75-00-3		
1.898	1.885 (0.401)	64	27673	87.3322	87.332	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.885 (0.401)	66	8434			2.16- 62.16	30.48
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	54773	86.1386	86.139	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	44447			52.83- 112.83	81.15
1.912	1.912 (0.404)	72	5325			0.00- 38.88	9.72
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	113283	82.6250	82.625	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	74729			34.93- 94.93	65.97
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	20083	63.5137	63.514	80.00- 120.00	100.00(R)
2.360	2.360 (0.498)	43	5144			0.00- 52.67	25.61
2.360	2.360 (0.498)	46	8542			12.37- 72.37	42.53
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	62372	80.8398	80.840	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	40789			34.36- 94.36	65.40
2.584	2.584 (0.545)	101	95540			119.53- 179.53	153.18
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	95611	79.9421	79.942	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	48987			21.57- 81.57	51.24
2.612	2.612 (0.551)	98	30375			1.98- 61.98	31.77
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	28939	85.6052	85.605	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	72948			233.69- 293.69	252.08
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.794 (0.593)	76	126519	73.6790	73.679	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	77054	88.9536	88.954	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	17718			0.00- 53.85	22.99
2.878	2.878 (0.607)	59	3691			0.00- 34.34	4.79
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	17042	74.3502	74.350	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	44468			227.89- 287.89	260.93
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	62443	79.7807	79.781	80.00- 120.00	100.00
3.158	3.158 (0.666)	84	45496			40.30- 100.30	72.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	19393			1.79- 61.79	31.06
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.354 (0.708)	73	41980	80.6545	80.654	80.00- 120.00	100.00
3.353	3.354 (0.708)	57	10973			0.00- 58.10	26.14
3.353	3.354 (0.708)	41	12088			0.00- 57.12	28.79
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.382 (0.714)	96	41858	72.4448	72.445	80.00- 120.00	100.00
3.381	3.382 (0.714)	61	70230			142.56- 202.56	167.78
3.381	3.382 (0.714)	98	27277			36.64- 96.64	65.17
78 Hexane					CAS #: 110-54-3		
3.577	3.578 (0.755)	57	87630	80.7523	80.752	80.00- 120.00	100.00
3.577	3.578 (0.755)	43	46877			21.59- 81.59	53.49
3.577	3.578 (0.755)	86	11989			0.00- 46.40	13.68
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.857 (0.814)	63	101120	83.0182	83.018	80.00- 120.00	100.00
3.857	3.857 (0.814)	65	30388			0.00- 59.48	30.05
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.578 (0.755)	86	11989			80.00- 120.00	100.00(aR)
3.577	3.578 (0.755)	43	46877			284.51- 344.51	391.00
3.577	3.578 (0.755)	42	26057			138.34- 198.34	217.34
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	86736	92.2905	92.290	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	55626			32.15- 92.15	64.13
4.487	4.487 (0.947)	98	34245			10.13- 70.13	39.48
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	21305	83.3199	83.320	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	84188			379.79- 439.79	395.16
4.515	4.515 (0.953)	57	7936			6.25- 66.25	37.25
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	51692	86.1438	86.144	80.00- 120.00	100.00
4.739	4.725 (1.000)	71	20824			11.50- 71.50	40.28
4.739	4.725 (1.000)	72	23401			12.84- 72.84	45.27
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	104622	82.0188	82.019	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	63862			32.14- 92.14	61.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.921 (1.038)	84	67156	80.2327	80.233	80.00- 120.00	100.00
4.920	4.921 (1.038)	56	93697			99.79- 159.79	139.52
4.920	4.921 (1.038)	41	39995			28.40- 88.40	59.56
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.949 (1.044)	97	90069	82.8204	82.820	80.00- 120.00	100.00
4.948	4.949 (1.044)	99	59337			36.51- 96.51	65.88
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.075 (1.074)	119	79540	84.1140	84.114	80.00- 120.00	100.00
5.088	5.075 (1.074)	117	83375			75.71- 135.71	104.82
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	289404	84.2245	84.224	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	100703			4.19- 64.19	34.80
5.326	5.326 (1.124)	41	61445			0.00- 50.55	21.23
116 Benzene					CAS #: 71-43-2		
5.354	5.340 (0.916)	78	154966	79.5031	79.503	80.00- 120.00	100.00
5.354	5.340 (0.916)	77	37718			0.00- 53.33	24.34
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	74882	78.8822	78.882	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	23999			1.49- 61.49	32.05
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	51554	76.9288	76.929	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	85852			128.82- 188.82	166.53
5.564	5.564 (0.952)	100	16101			0.00- 59.89	31.23
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	67421	71.0828	71.083	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	61787			53.70- 113.70	91.64
6.082	6.082 (1.041)	97	44480			34.03- 94.03	65.97
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	88262	74.1010	74.101	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	42855			15.61- 75.61	48.55
6.194	6.194 (1.060)	55	90068			65.29- 125.29	102.05
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	67332	82.3544	82.354	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	46789			44.72- 104.72	69.49
6.390	6.390 (1.093)	41	29058			18.10- 78.10	43.16

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	32077	76.4770	76.477	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	28823			60.63- 120.63	89.86
6.530	6.530 (1.117)	57	9364			0.00- 59.33	29.19
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.726 (1.151)	83	109128	76.8255	76.825	80.00- 120.00	100.00
6.725	6.726 (1.151)	85	68837			28.84- 88.84	63.08
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	69906	79.2094	79.209	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	22912			2.17- 62.17	32.78
7.327	7.327 (1.254)	39	30551			14.65- 74.65	43.70
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	17191	87.5147	87.515	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	103655			589.74- 649.74	602.96
7.565	7.565 (1.294)	58	54839			296.38- 356.38	319.00
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	177942	78.0473	78.047	80.00- 120.00	100.00
7.733	7.719 (1.323)	92	102724			28.91- 88.91	57.73
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	52202	92.4258	92.426	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	15557			2.18- 62.18	29.80
8.293	8.293 (0.845)	39	20744			10.13- 70.13	39.74
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.615 (0.877)	97	62629	80.1833	80.183	80.00- 120.00	100.00
8.614	8.615 (0.877)	99	36937			34.34- 94.34	58.98
8.614	8.615 (0.877)	83	58172			63.48- 123.48	92.88
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.629 (0.879)	166	62684	79.3302	79.330	80.00- 120.00	100.00
8.614	8.615 (0.877)	129	54617			51.36- 111.36	87.13
8.614	8.615 (0.877)	131	51000			49.19- 109.19	81.36
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	56145	75.9179	75.918	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	90442			125.38- 185.38	161.09
9.006	9.006 (0.917)	100	9808			0.00- 48.37	17.47
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.146 (0.933)	129	92324	78.0081	78.008	80.00- 120.00	100.00
9.160	9.146 (0.933)	127	70729			47.63- 107.63	76.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	88407	82.9940	82.994	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	79799			61.71- 121.71	90.26
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.846 (1.003)	112	134101	79.7359	79.736	80.00- 120.00	100.00
9.846	9.846 (1.003)	114	40986			1.37- 61.37	30.56
9.846	9.846 (1.003)	77	91701			39.20- 99.20	68.38
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	64668	78.1596	78.160	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	220334			310.29- 370.29	340.72
169 m,p-Xylene					CAS #: 108-38-3		
10.083	10.070 (1.027)	106	81011	81.8387	81.839	80.00- 120.00	100.00
10.083	10.070 (1.027)	91	170308			185.45- 245.45	210.23
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	75555	82.4885	82.488	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	168770			196.57- 256.57	223.37
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	114337	79.9064	79.906	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	68148			26.62- 86.62	59.60
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	98564	103.834	103.83	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	50505			22.90- 82.90	51.24
175 Cumene					CAS #: 98-82-8		
10.769	10.769 (1.097)	105	231885	81.2483	81.248	80.00- 120.00	100.00
10.769	10.769 (1.097)	120	57220			0.00- 55.02	24.68
10.769	10.769 (1.097)	51	29800			0.00- 41.92	12.85
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	139482	83.9790	83.979	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	87577			28.86- 88.86	62.79
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	319853	81.1744	81.174	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	61634			0.00- 49.36	19.27
11.105	11.105 (1.131)	105	11911			0.00- 33.72	3.72
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	235348	79.6562	79.656	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	63432			0.00- 57.25	26.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	207769	81.5723	81.572	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	91324			15.00- 75.00	43.95
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.497	11.497 (1.171)	105	183894	79.4412	79.441	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	76769			10.76- 70.76	41.75
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	116787	78.4384	78.438	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	74742			32.32- 92.32	64.00
11.693	11.693 (1.191)	111	55147			17.13- 77.13	47.22
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.762	11.763 (1.198)	146	121577	77.7298	77.730	80.00- 120.00	100.00
11.762	11.763 (1.198)	148	75614			33.76- 93.76	62.19
11.762	11.763 (1.198)	111	52310			14.33- 74.33	43.03
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.861 (1.208)	91	106421	88.4956	88.496	80.00- 120.00	100.00
11.860	11.861 (1.208)	126	18514			0.00- 48.64	17.40
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.987 (1.221)	146	112468	75.1424	75.142	80.00- 120.00	100.00
11.986	11.987 (1.221)	148	71803			32.13- 92.13	63.84
11.986	11.987 (1.221)	111	56400			17.47- 77.47	50.15
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	69068	75.2769	75.277	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	66294			61.06- 121.06	95.98
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	52192	79.8353	79.835	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	30790			36.08- 96.08	58.99
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	15129	7.32332	7.323	80.00- 120.00	100.00(a)
12.966	12.966 (1.321)	127	2132			0.00- 42.87	14.09

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Report Date: 15-Feb-2016 13:58

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14021505.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd14.i/15feb16.b/14650212a.m
Misc Info: 100ppbv (100ppbv)

Calibration Date: 15-FEB-2016
Calibration Time: 10:38
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

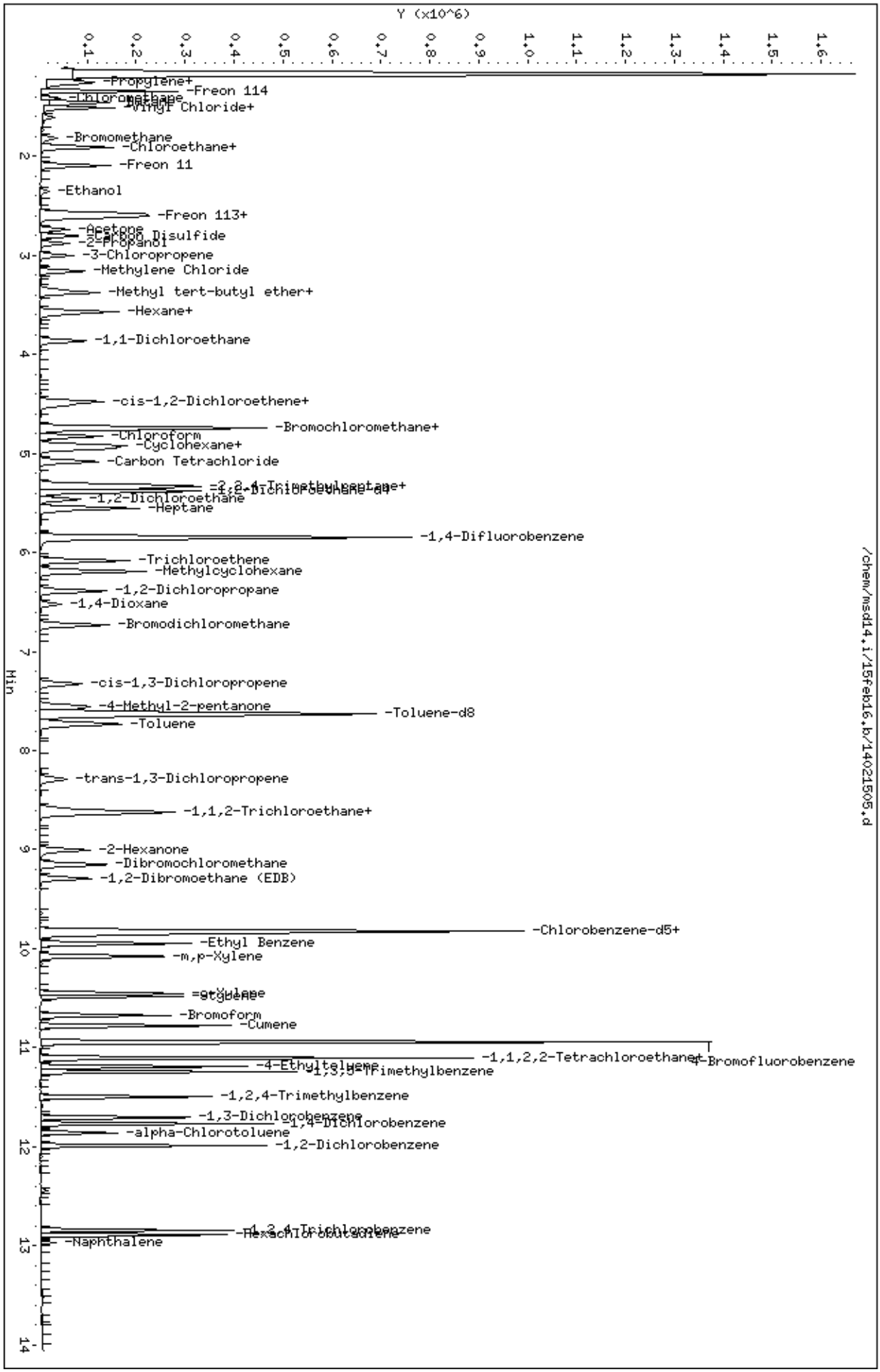
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	134188	80513	187863	126832	-5.48
123 1,4-Difluorobenze	615834	369500	862168	605876	-1.62
163 Chlorobenzene-d5	494859	296915	692803	493650	-0.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	-0.01
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/15feb16.b/14021505.d
Date : 15-FEB-2016 11:47
Client ID: LCSD
Sample Info: 50mL #2759-104A
Column phase: RTX-624

Instrument: msd14.i
Operator: js
Column diameter: 0.18



/chem/msd14.i/15feb16.b/14021505.d

MSDP

BFB verification of 176/174 ratio: (/) * 100 = %			
IS/Surr Std#	2759-216	Exp. Date:	5/1/2016
BCM	152495		
1,4-DFB	608067		
CB-d5	577195		

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%):

Method: P16Q0201a

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P020803	BFB Tune Check	2759-216	12	36ng	1.0ml	1.00	sab	sab	2/8/16	1010	sab	Exp:5/1/16
√	P020804	CCV	2759-209	13	50ppbv (200ppbv)	50ml	1.00	sab	sab	2/8/16	1035	sab	Exp: 4/6/16
√	P020805	LCS	2759-109A	14	50ppbv(100ppbv)	100ml	1.00	sab	sab	2/8/16	1059	sab	Exp: 2/24/16
√	P020806	LCSD	2759-109A	14	50ppbv(100ppbv)	100ml	1.00	sab	sab	2/8/16	1123	sab	Exp: 2/24/16
X	P020807	Lab Blank	33555	12	humid	200ml	1.00	sab	sab	2/8/16	1212	sab	
√	P020808	Lab Blank	33555	12	humid	200ml	1.00	sab	sab	2/8/16	1310	sab	
√	P020809	1602045-01A	35669	1	0.6 Hg->14.6 psi	200ml	2.03	gd	sab	2/8/16	1511	gd	
√	P020810	1602064B-18A	36483	8	3.3 Hg->15 psi	200ml	2.27	gd	sab	2/8/16	1537	gd	
√	P020811	1602064B-17A	37718	7	3.3 Hg->14.9 psi	200ml	2.26	gd	sab	2/8/16	1604	gd	
√	P020812	1602064B-16A	34579	6	4.5 Hg->14.9 psi	50ml	9.48	gd	sab	2/8/16	1628	gd	Dil TC
√	P020813	1602064B-15A	11446	5	2.2 Hg->14.6 psi	200ml	2.15	gd	sab	2/8/16	1654	gd	
√	P020814	1602064B-14A	111942	4	6.3 Hg->15 psi	30ml	17.0	gd	sab	2/8/16	1718	gd	Dil TC
X	P020815	1602064B-13A	34578	3	6.1 Hg->14.7 psi	30ml	16.7	gd	sab	2/8/16	1742	gd	Overdil., RR@200ml
X	P020816	1602064B-12A	8002	2	4.3 Hg->14.5 psi	10ml	46.4	gd	sab	2/8/16	1805	gd	Overdil., RR@200ml
√	P020817	1602064B-13A	34578	3	6.1 Hg->14.7 psi	200ml	2.51	gd	gd	2/8/16	1917	gd	
√	P020818	1602064B-12A	8002	2	4.3 Hg->14.5 psi	200ml	2.32	gd	gd	2/8/16	1943	gd	
	P020819	1602005B-09A	15748	1	1.0 Hg->15 psi	200ml	2.09		gd	2/8/16			
	P020820	1602005B-10A	37338	2	4.0 Hg->15 psi	200ml	2.33		gd	2/8/16			
	P020821	1602005B-11A	31760	3	5.0 Hg->15 psi	60ml	8.08		gd	2/8/16			
	P020822	1602005B-12A	37427	4	4.0 Hg->15 psi	60ml	7.77		gd	2/8/16			2/15/16
	P020823	1602005B-13A	n2057	5	4.0 Hg->15 psi	100ml	4.66		gd	2/8/16			
	P020824	1602005B-14A	15740	6	4.0 Hg->15 psi	30ml	15.5		gd	2/8/16			AT
	P020825	1602005B-15A	37670	7	5.5 Hg->15 psi	30ml	16.5		gd	2/8/16			
	P020826	1602005B-16A	33716	8	4.0 Hg->15 psi	20ml	23.3		gd	2/8/16			
	P020827	1602005B-17A	34620	9	6.0 Hg->15 psi	200ml	2.52		gd	2/8/16			
	P020828	1602005B-18A	34600	10	4.0 Hg->15 psi	80ml	5.83		gd	2/8/16			
	P020829	1602005B-19A	15749	11	3.5 Hg->15 psi	80ml	5.72		gd	2/8/16			

Eurofins Air Toxics, Inc. **MSD-14** **Logbook #: 2756**

BFB Verification of 176/174 m/z Ratio:	12054/12416(100)=97.08%.
Method Name:	14L 5021A

IS/S Std. #: 2759-228	Exp. Date: 5/5/16
BCM	134188
1,4-DFB	615834
CB-d5	494859
Verified CCV IS vs ICAL mid-point (-40%D):	ok

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

Calculation Check: File ID: 14021502
Compound: Tol. d8
Initials: ok

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \frac{(676060)}{(615834)} \times \frac{(400)}{(1.10779)}$ = Reported Result: 396.39

	Use	File	Lab ID#	Can#	Pressure	Amount Loaded	Verified Vol Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	14021501	BFB tune check	2299-1275	50mg	2ml	NA	1.00	ok	2/15/16	1019	ok	
2	✓	02	CCV (200ppbv)	2759-175	100ppbv	25ml	NA	1.00	ok		1038	ok	NO VA exp. 4/6/16; 1014
3	✓	03	LCS (100ppbv)	2759-104A	100ppbv	50ml		1.00	ok		1109	ok	exp 2/24/16; 1014
4	X	04	LCSD						ok		1127	ok	no std loaded
5	✓	05	LCSD						ok		1147	ok	
6	✓	06	TPHg cal lb (100ppm)	2516-195	4,000ppbv	2ml			ok		1236	ok	exp. 3/17/16
7	✓	07	lab blank	34496	Humid	50ml		↓	ok		1303	MB	
8	X	08	1602064B-11A	1L1536	4.7"Hg→14.9psi	25mL		478	MB		1407	MB	100X (in dil. ~~overdilute~~ overrun) MB 2/15
9	✓	09	↓ -11A	↓	↓	15mL		796	MB		1432	MB	↓ DILTC 25mL
10		10											
11													
12													
13													
14													
15													

MB 2/15/16

Reviewed _____ Date _____

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/01feb16.b/p020101.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-FEB-2016 13:16
Operator : kl Inst ID: msdp.i
Smp Info : 1.0ml #2759-216 BFB;BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/01feb16.b/bfb30.m
Meth Date : 01-Feb-2016 13:40 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.768	9.898	-0.130	95	230784			100.00- 100.00	99.57
9.768	9.898	-0.130	50	52453			8.00- 40.00	22.73
9.768	9.898	-0.130	75	110495			30.00- 66.00	47.88
9.768	9.898	-0.130	96	15327			5.00- 9.00	6.64
9.768	9.898	-0.130	173	1804			0.00- 1.99	0.78
9.768	9.898	-0.130	174	231786			50.01- 120.00	100.43
9.768	9.898	-0.130	175	16677			4.00- 9.00	7.19
9.768	9.898	-0.130	176	224704			93.00- 101.00	96.94
9.768	9.898	-0.130	177	15248			5.00- 9.00	6.79

Data File: /var/chem/msdp.i/01feb16.b/p020101.d

Date : 01-FEB-2016 13:16

Client ID: BFB

Instrument: msdp.i

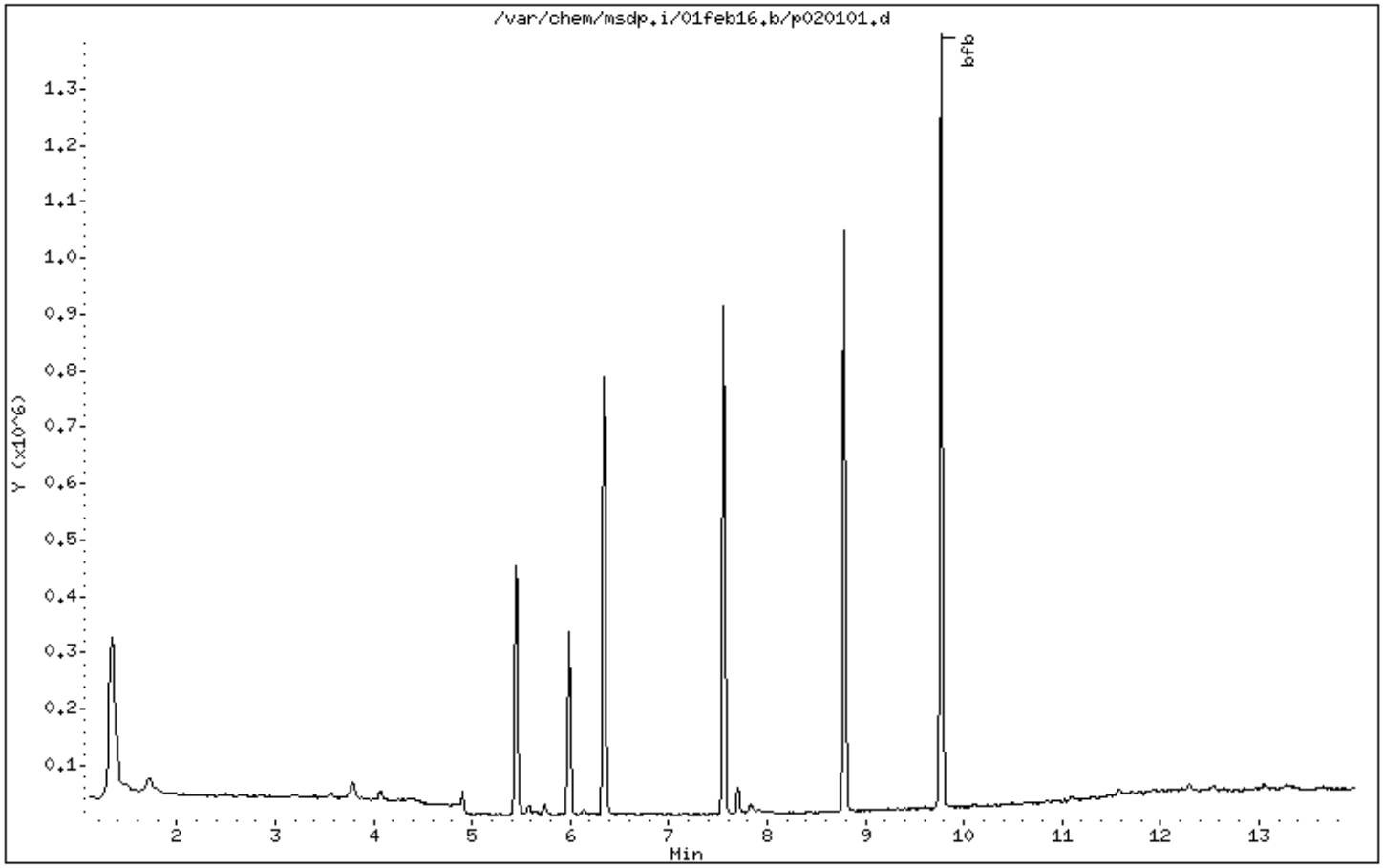
Sample Info: 1.0ml #2759-216 BFB;BFB

Volume Injected (uL): 1.0

Operator: kl

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdp.i/01feb16.b/p020101.d

Date : 01-FEB-2016 13:16

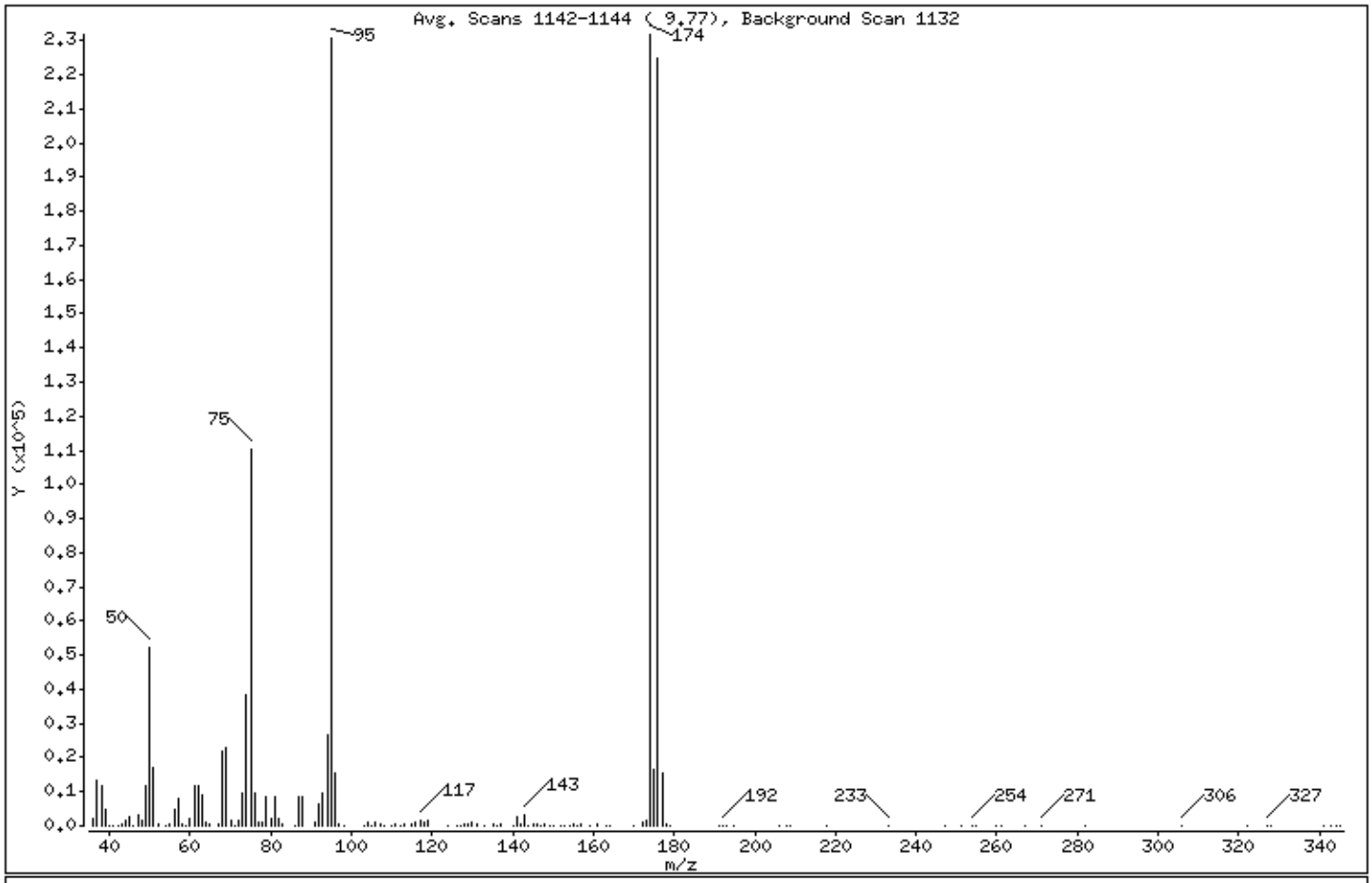
Client ID: BFB Instrument: msdp.i

Sample Info: 1.0ml #2759-216 BFB;BFB

Volume Injected (uL): 1.0 Operator: kl

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.73
75	30.00 - 66.00% of mass 95	47.88
96	5.00 - 9.00% of mass 95	6.64
173	Less than 1.99% of mass 174	0.78 (0.78)
174	50.01 - 120.00% of mass 95	100.43
175	4.00 - 9.00% of mass 174	7.23 (7.19)
176	93.00 - 101.00% of mass 174	97.37 (96.94)
177	5.00 - 9.00% of mass 176	6.61 (6.79)

Data File: /var/chem/msdp.i/01feb16.b/p020101.d

Date : 01-FEB-2016 13:16

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0ml #2759-216 BFB;BFB

Volume Injected (uL): 1.0

Operator: kl

Column phase:

Column diameter: 2.00

Data File: p020101.d
Spectrum: Avg. Scans 1142-1144 (9.77), Background Scan 1132
Location of Maximum: 174.00
Number of points: 139

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2162	73.00	9780	118.00	1125	172.00	1010
37.00	13409	74.00	38160	119.00	1353	173.00	1804
38.00	11964	75.00	110488	124.00	44	174.00	231744
39.00	4820	76.00	9511	126.00	213	175.00	16672
40.00	78	77.00	932	127.00	72	176.00	224704
41.00	102	78.00	808	128.00	785	177.00	15248
42.00	84	79.00	8412	129.00	410	178.00	423
43.00	346	80.00	2040	130.00	891	179.00	132
44.00	1495	81.00	8344	131.00	485	191.00	91
45.00	2417	82.00	1957	133.00	41	192.00	258
46.00	190	83.00	332	135.00	420	193.00	27
47.00	3044	86.00	177	136.00	171	195.00	55
48.00	1827	87.00	8274	137.00	427	206.00	43
49.00	11951	88.00	8264	140.00	122	208.00	36
50.00	52448	91.00	1228	141.00	2825	209.00	102
51.00	16800	92.00	6481	142.00	400	218.00	49
52.00	658	93.00	9450	143.00	2996	233.00	53
54.00	109	94.00	26808	144.00	182	247.00	42
55.00	699	95.00	230784	145.00	449	251.00	39
56.00	4608	96.00	15327	146.00	320	254.00	256
57.00	7795	97.00	483	147.00	176	255.00	112
58.00	434	98.00	86	148.00	515	260.00	199
59.00	60	103.00	185	149.00	241	261.00	106
60.00	2049	104.00	1097	150.00	202	267.00	165
61.00	11688	105.00	251	152.00	150	271.00	154
62.00	11841	106.00	1125	153.00	181	282.00	7
63.00	9285	107.00	343	154.00	260	306.00	83
64.00	981	108.00	158	155.00	718	322.00	72
65.00	366	110.00	190	156.00	179	327.00	177
67.00	421	111.00	281	157.00	362	328.00	70
68.00	21976	112.00	236	159.00	261	341.00	78
69.00	23120	113.00	358	161.00	468	343.00	143
70.00	1769	115.00	297	163.00	56	344.00	52
71.00	141	116.00	880	164.00	198	345.00	83
72.00	1339	117.00	1759	170.00	243		

Data File: /var/chem/msdp.i/01feb16.b/p020101.d

Date : 01-FEB-2016 13:16

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0ml #2759-216 BFB;BFB

Volume Injected (uL): 1.0

Operator: kl

Column phase:

Column diameter: 2.00

Data File: p020101.d
Spectrum: Avg. Scans 1142-1144 (9.77), Background Scan 1132
Location of Maximum: 174.00
Number of points: 139

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/02feb16.b/p020201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-FEB-2016 12:39
Operator : sab Inst ID: msdp.i
Smp Info : 1.0ml 2759-216;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/02feb16.b/bfb30.m
Meth Date : 02-Feb-2016 13:02 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		
9.768	9.898	-0.130	95	239530			100.00- 100.00	99.19
9.768	9.898	-0.130	50	53749			8.00- 40.00	22.44
9.768	9.898	-0.130	75	114554			30.00- 66.00	47.82
9.768	9.898	-0.130	96	15322			5.00- 9.00	6.40
9.768	9.898	-0.130	173	1989			0.00- 1.99	0.82
9.768	9.898	-0.130	174	241493			50.01- 120.00	100.82
9.768	9.898	-0.130	175	17045			4.00- 9.00	7.06
9.768	9.898	-0.130	176	237141			93.00- 101.00	98.20
9.768	9.898	-0.130	177	15315			5.00- 9.00	6.46

Data File: /var/chem/msdp.i/02feb16.b/p020201.d

Date : 02-FEB-2016 12:39

Client ID: BFB

Instrument: msdp.i

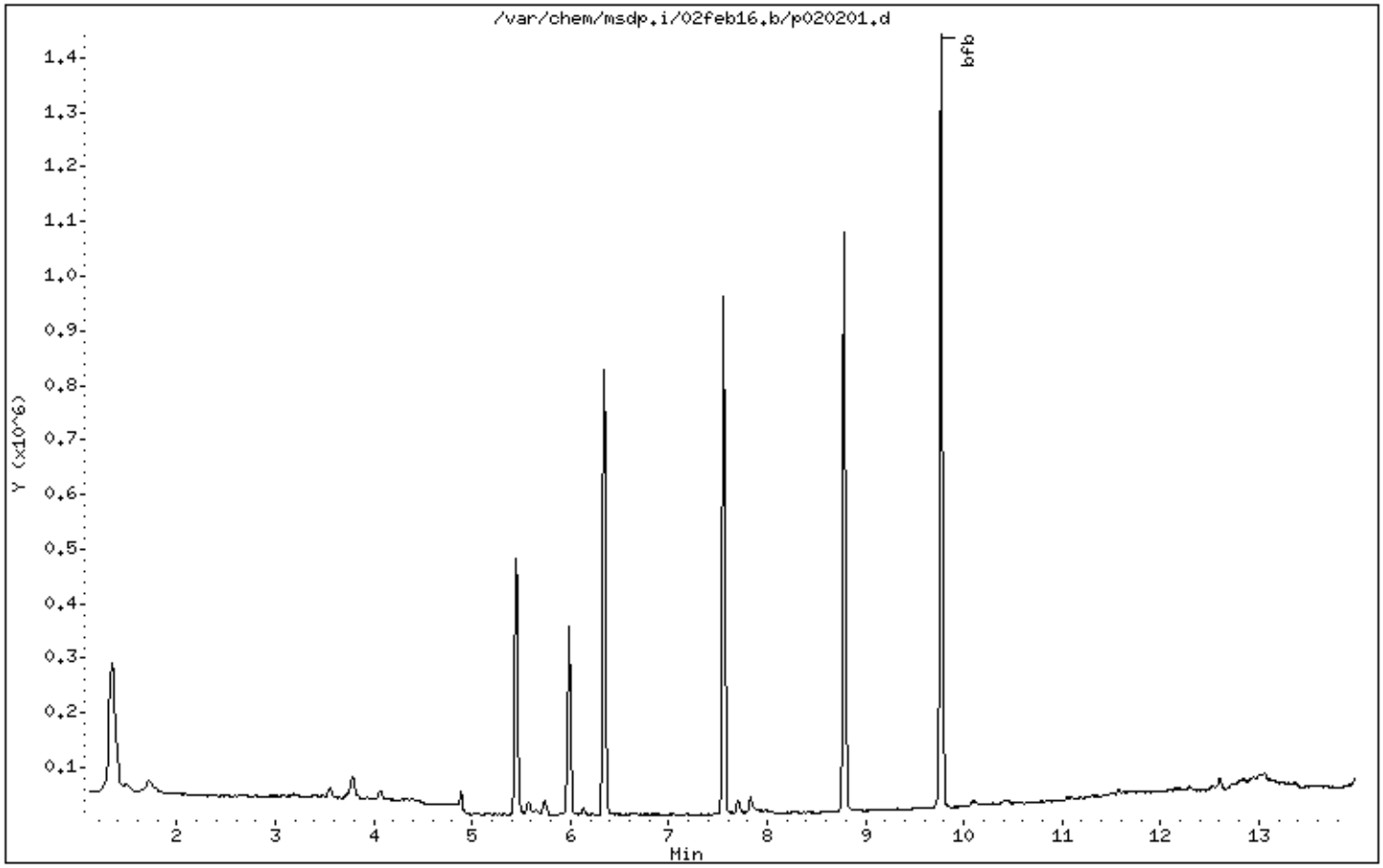
Sample Info: 1.0ml 2759-216;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sab

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdp.i/02feb16.b/p020201.d

Date : 02-FEB-2016 12:39

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0ml 2759-216;BFB Tune Check

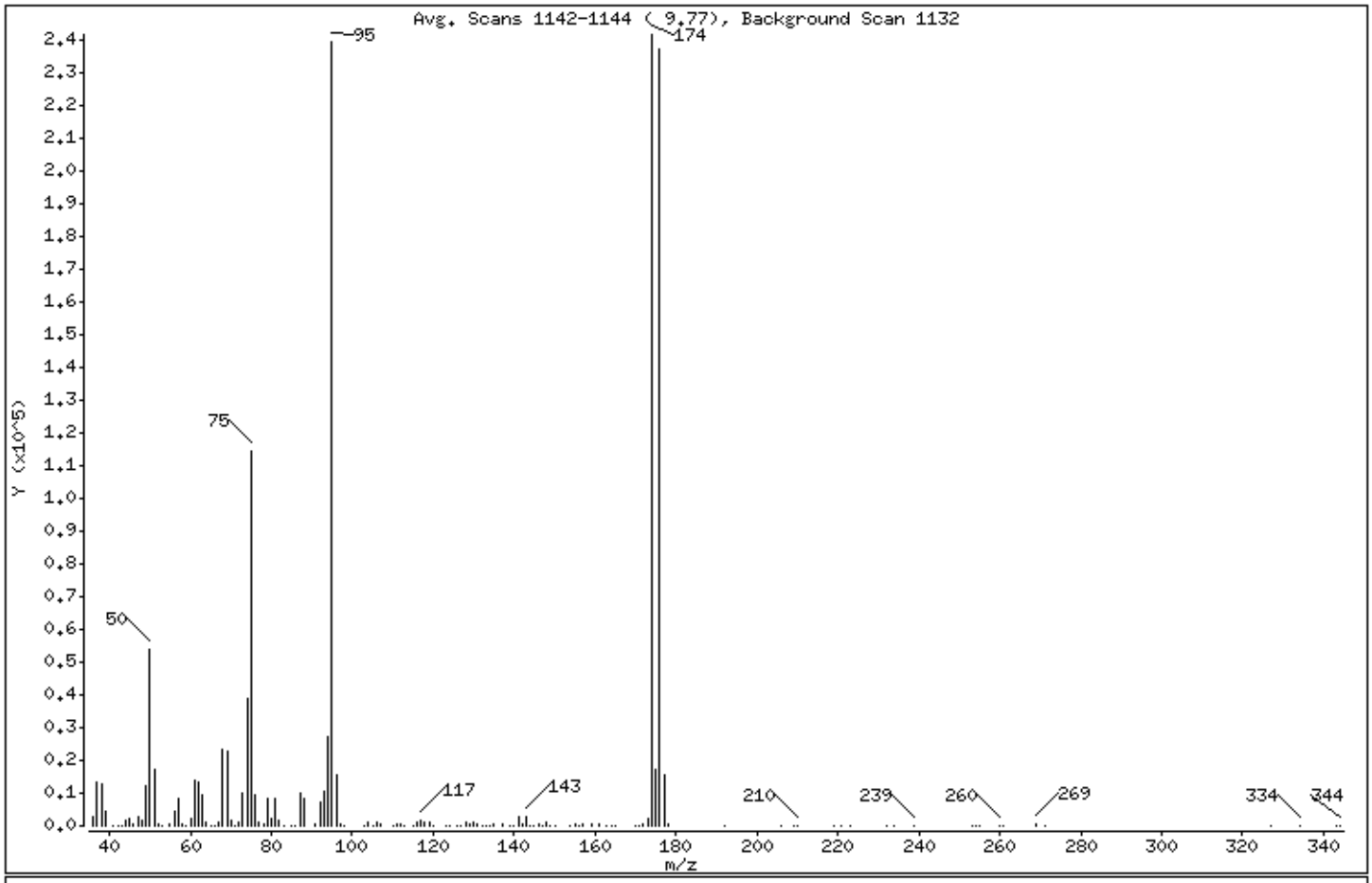
Volume Injected (uL): 1.0

Operator: sab

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	22.44
75	30.00 - 66.00% of mass 95	47.82
96	5.00 - 9.00% of mass 95	6.40
173	Less than 1.99% of mass 174	0.83 (0.82)
174	50.01 - 120.00% of mass 95	100.82
175	4.00 - 9.00% of mass 174	7.12 (7.06)
176	93.00 - 101.00% of mass 174	99.00 (98.20)
177	5.00 - 9.00% of mass 176	6.39 (6.46)

Data File: /var/chem/msdp.i/02feb16.b/p020201.d

Date : 02-FEB-2016 12:39

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0ml 2759-216;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sab

Column phase:

Column diameter: 2.00

Data File: p020201.d
Spectrum: Avg. Scans 1142-1144 (9.77), Background Scan 1132
Location of Maximum: 174.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2745	73.00	9878	118.00	954	164.00	37
37.00	13455	74.00	38696	119.00	1190	165.00	120
38.00	12516	75.00	114552	120.00	79	170.00	34
39.00	4539	76.00	9160	123.00	135	171.00	127
41.00	217	77.00	1183	124.00	204	172.00	581
42.00	34	78.00	735	126.00	38	173.00	1989
43.00	97	79.00	8265	127.00	104	174.00	241472
44.00	1488	80.00	2244	128.00	895	175.00	17040
45.00	2251	81.00	8593	129.00	421	176.00	237120
46.00	302	82.00	1856	130.00	1054	177.00	15315
47.00	2996	83.00	271	131.00	586	178.00	515
48.00	1548	85.00	73	132.00	38	192.00	50
49.00	12341	86.00	238	133.00	1	206.00	34
50.00	53744	87.00	9843	134.00	133	209.00	7
51.00	17112	88.00	8282	135.00	433	210.00	102
52.00	823	91.00	657	137.00	334	219.00	40
53.00	6	92.00	7017	139.00	80	221.00	41
55.00	714	93.00	10803	140.00	108	223.00	69
56.00	4472	94.00	27424	141.00	2579	232.00	1
57.00	8062	95.00	239488	142.00	372	234.00	40
58.00	310	96.00	15322	143.00	2799	239.00	144
59.00	200	97.00	432	144.00	190	253.00	134
60.00	2387	98.00	177	145.00	263	254.00	3
61.00	13784	103.00	276	146.00	383	255.00	3
62.00	13178	104.00	1286	147.00	244	260.00	207
63.00	9567	105.00	275	148.00	924	261.00	154
64.00	965	106.00	1150	149.00	224	269.00	323
65.00	175	107.00	344	150.00	185	271.00	4
66.00	38	110.00	238	154.00	124	327.00	62
67.00	880	111.00	298	155.00	635	334.00	237
68.00	23104	112.00	296	156.00	99	343.00	50
69.00	22856	113.00	161	157.00	570	344.00	47
70.00	1860	115.00	177	159.00	317		
71.00	137	116.00	1152	161.00	380		
72.00	1138	117.00	1661	163.00	18		

Data File: /var/chem/msdp.i/02feb16.b/p020201.d

Date : 02-FEB-2016 12:39

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0ml 2759-216;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sab

Column phase:

Column diameter: 2.00

Data File: p020201.d
Spectrum: Avg. Scans 1142-1144 (9.77), Background Scan 1132
Location of Maximum: 174.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/08feb16.b/p020803.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 08-FEB-2016 10:10
Operator : sab Inst ID: msdp.i
Smp Info : 1.0ml 2759-216;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/08feb16.b/bfb30.m
Meth Date : 08-Feb-2016 10:33 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	202048			100.00- 100.00	96.83
9.761	9.898	-0.137	50	45949			8.00- 40.00	22.74
9.761	9.898	-0.137	75	95461			30.00- 66.00	47.25
9.761	9.898	-0.137	96	12244			5.00- 9.00	6.06
9.761	9.898	-0.137	173	1719			0.00- 1.99	0.82
9.761	9.898	-0.137	174	208661			50.01- 120.00	103.27
9.761	9.898	-0.137	175	14269			4.00- 9.00	6.84
9.761	9.898	-0.137	176	201578			93.00- 101.00	96.61
9.761	9.898	-0.137	177	12902			5.00- 9.00	6.40

Data File: /var/chem/msdp.i/08feb16.b/p020803.d

Date : 08-FEB-2016 10:10

Client ID: BFB

Instrument: msdp.i

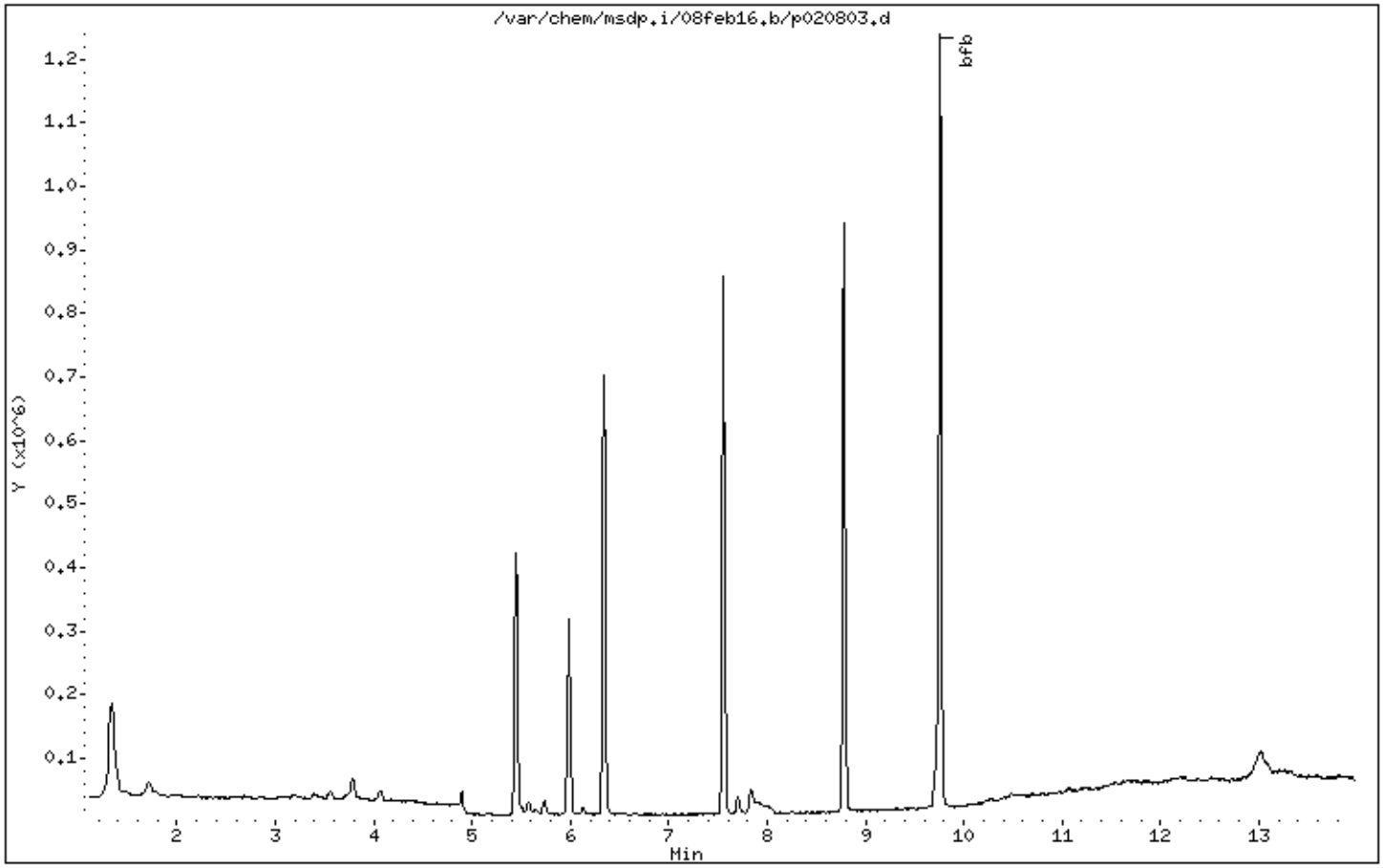
Sample Info: 1.0ml 2759-216;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sab

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdp.i/08feb16.b/p020803.d

Date : 08-FEB-2016 10:10

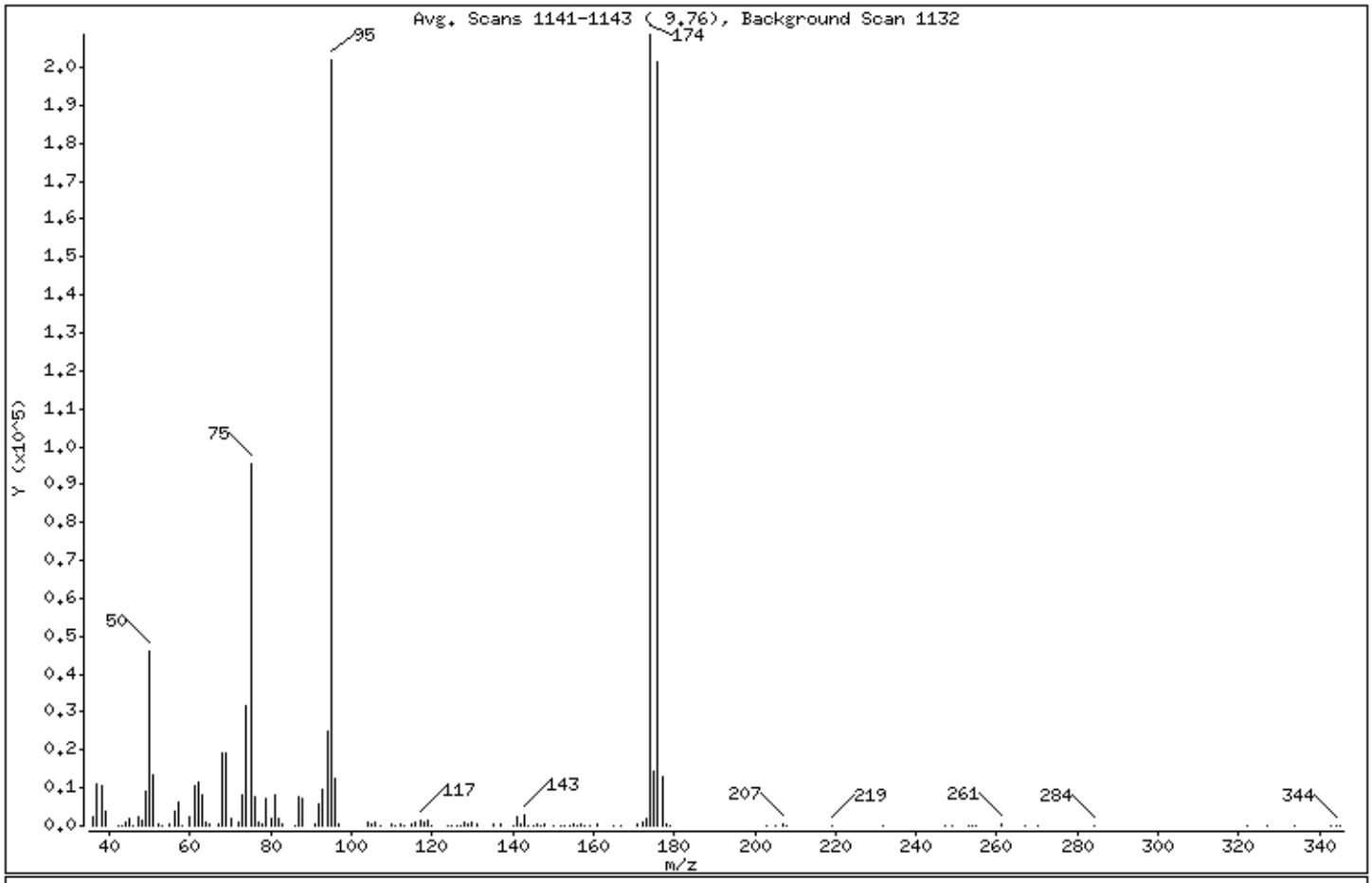
Client ID: BFB Instrument: msdp.i

Sample Info: 1.0ml 2759-216;BFB Tune Check

Volume Injected (uL): 1.0 Operator: sab

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	22.74
75	30.00 - 66.00% of mass 95	47.25
96	5.00 - 9.00% of mass 95	6.06
173	Less than 1.99% of mass 174	0.85 (0.82)
174	50.01 - 120.00% of mass 95	103.27
175	4.00 - 9.00% of mass 174	7.06 (6.84)
176	93.00 - 101.00% of mass 174	99.77 (96.61)
177	5.00 - 9.00% of mass 176	6.39 (6.40)

Data File: /var/chem/msdp.i/08feb16.b/p020803.d

Date : 08-FEB-2016 10:10

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0ml 2759-216;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sab

Column phase:

Column diameter: 2.00

Data File: p020803.d
Spectrum: Avg. Scans 1141-1143 (9.76), Background Scan 1132
Location of Maximum: 174.00
Number of points: 127

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2422	74.00	31720	119.00	1312	167.00	33
37.00	11167	75.00	95456	120.00	84	171.00	249
38.00	10367	76.00	7528	124.00	149	172.00	769
39.00	3892	77.00	1167	125.00	2	173.00	1719
42.00	76	78.00	625	126.00	34	174.00	208640
43.00	147	79.00	7076	127.00	127	175.00	14269
44.00	1013	80.00	2089	128.00	887	176.00	201536
45.00	1721	81.00	8087	129.00	367	177.00	12902
46.00	36	82.00	1819	130.00	914	178.00	501
47.00	2265	83.00	315	131.00	323	179.00	76
48.00	1376	86.00	148	135.00	476	203.00	80
49.00	9189	87.00	7551	137.00	509	205.00	116
50.00	45944	88.00	7348	140.00	177	207.00	243
51.00	13605	91.00	570	141.00	2519	208.00	157
52.00	696	92.00	5762	142.00	359	219.00	41
53.00	41	93.00	9373	143.00	2758	232.00	18
55.00	571	94.00	24944	144.00	191	247.00	181
56.00	3818	95.00	202048	145.00	225	249.00	16
57.00	6289	96.00	12244	146.00	554	253.00	149
58.00	188	97.00	377	147.00	153	254.00	225
60.00	2181	104.00	1178	148.00	587	255.00	56
61.00	10595	105.00	351	150.00	227	261.00	291
62.00	11311	106.00	1194	152.00	138	267.00	68
63.00	8296	107.00	129	153.00	236	270.00	57
64.00	734	110.00	253	154.00	118	284.00	78
65.00	452	111.00	196	155.00	533	322.00	34
67.00	514	112.00	244	156.00	39	327.00	37
68.00	19072	113.00	220	157.00	467	334.00	112
69.00	19360	115.00	361	158.00	123	343.00	157
70.00	1742	116.00	921	159.00	186	344.00	168
72.00	1030	117.00	1449	161.00	425	345.00	34
73.00	8167	118.00	849	165.00	196		

Eurofins Air Toxics Inc.

Data file : /var/chem/msd14.i/12feb16.b/14021208.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-FEB-2016 12:22
Operator : cb Inst ID: msd14.i
Smp Info : 2.0uL# 2299-1275; BFB; BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msd14.i/12feb16.b/bfb20.m
Meth Date : 12-Feb-2016 11:09 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.457	2.483	-0.026	95	41906			100.00- 100.00	100.00
2.457	2.483	-0.026	50	9938			8.00- 40.00	23.71
2.457	2.483	-0.026	75	23450			30.00- 66.00	55.96
2.457	2.483	-0.026	96	2841			5.00- 9.00	6.78
2.457	2.483	-0.026	173	217			0.00- 1.99	1.00
2.457	2.483	-0.026	174	21800			50.01- 120.00	52.02
2.457	2.483	-0.026	175	1805			4.00- 9.00	8.28
2.457	2.483	-0.026	176	20933			93.00- 101.00	96.02
2.457	2.483	-0.026	177	1429			5.00- 9.00	6.83

Data File: /var/chem/msd14.i/12feb16.b/14021208.d

Date : 12-FEB-2016 12:22

Client ID: BFB

Instrument: msd14.i

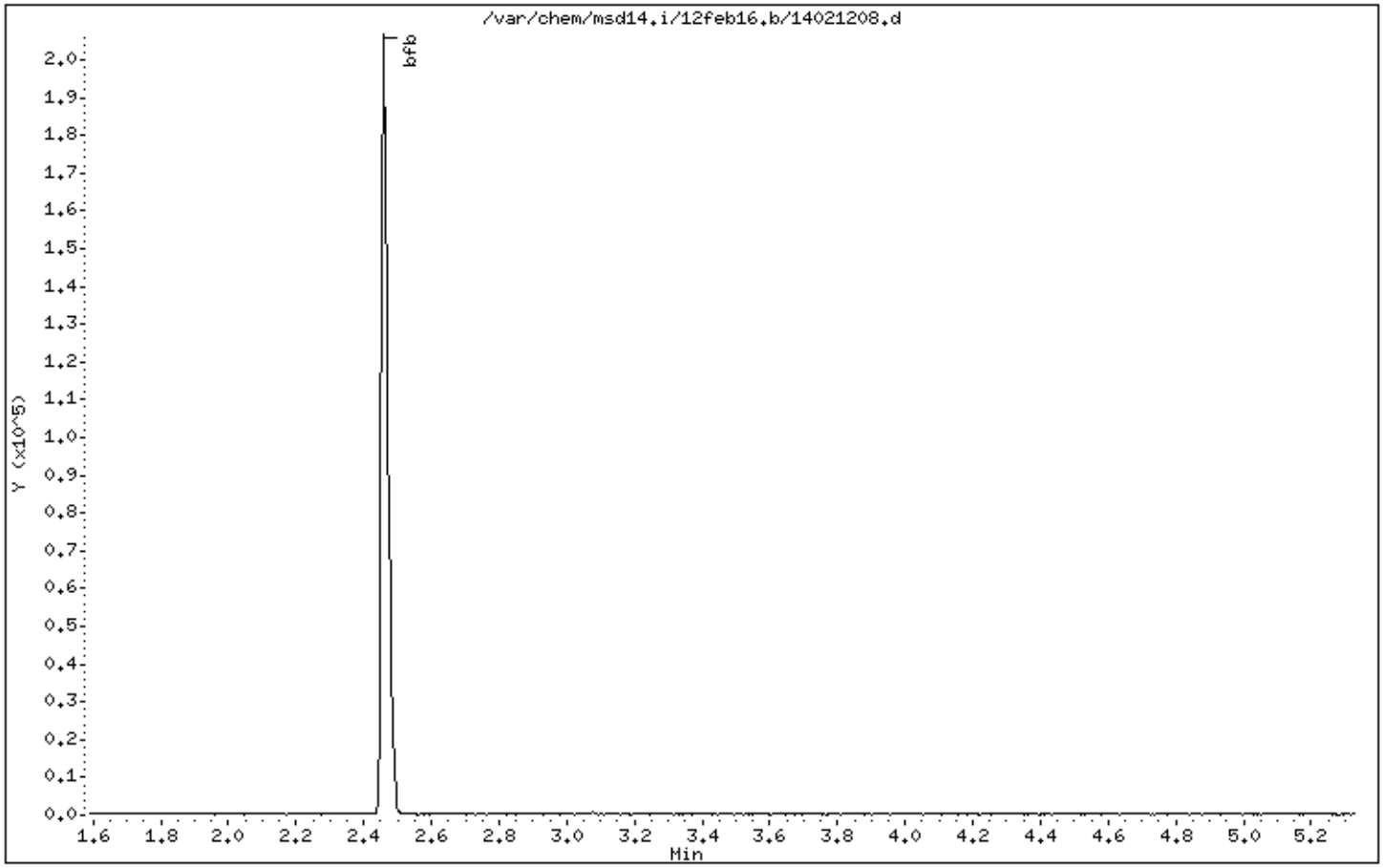
Sample Info: 2.0uL# 2299-1275; BFB; BFB

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd14.i/12feb16.b/14021208.d

Date : 12-FEB-2016 12:22

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0uL# 2299-1275; BFB; BFB

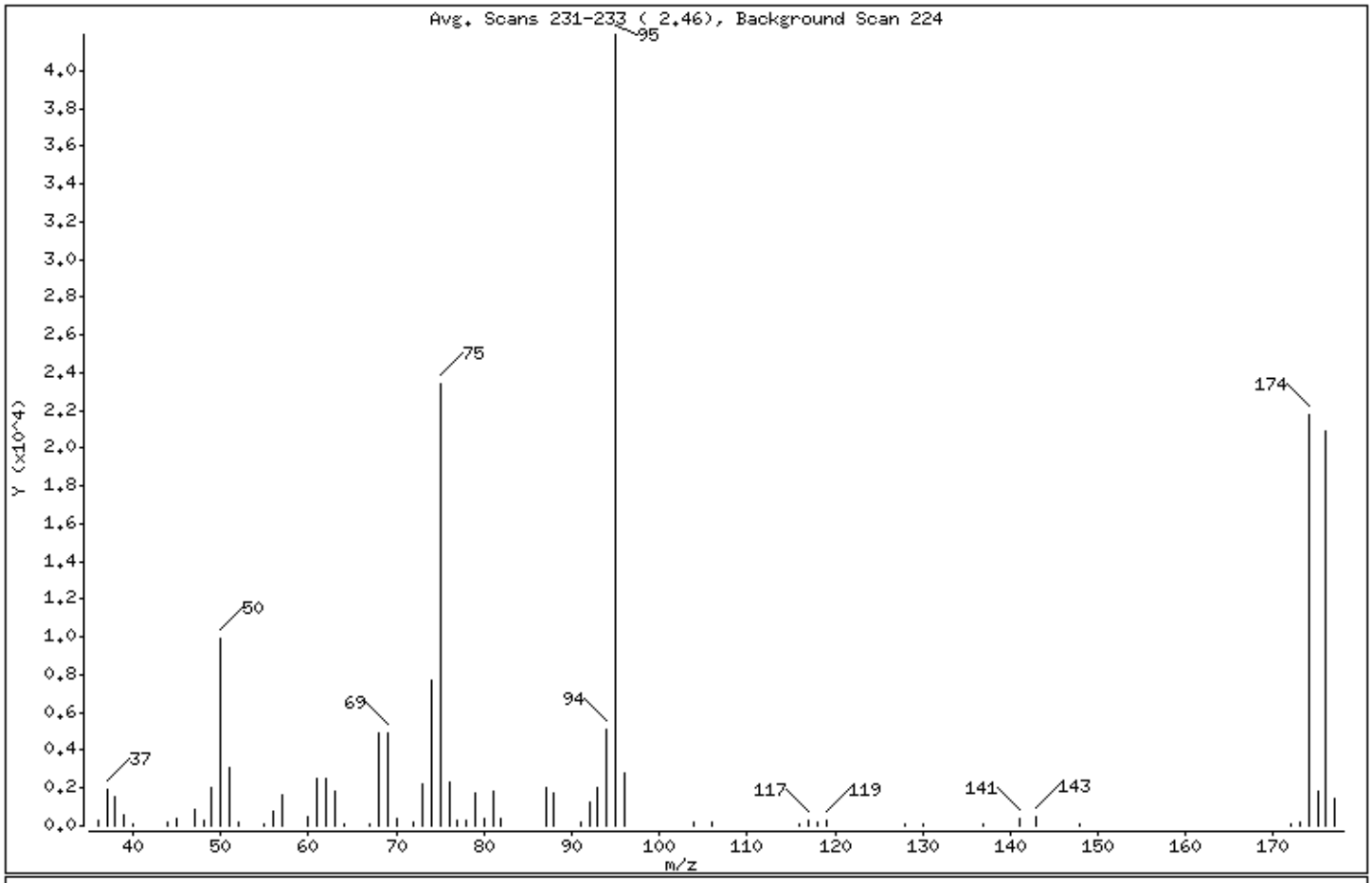
Volume Injected (uL): 1.0

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	23.71
75	30.00 - 66.00% of mass 95	55.96
96	5.00 - 9.00% of mass 95	6.78
173	Less than 1.99% of mass 174	0.52 (1.00)
174	50.01 - 120.00% of mass 95	52.02
175	4.00 - 9.00% of mass 174	4.31 (8.28)
176	93.00 - 101.00% of mass 174	49.95 (96.02)
177	5.00 - 9.00% of mass 176	3.41 (6.83)

Data File: /var/chem/msd14.i/12feb16.b/14021208.d

Date : 12-FEB-2016 12:22

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0uL# 2299-1275; BFB; BFB

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 14021208.d
Spectrum: Avg. Scans 231-233 (2.46), Background Scan 224
Location of Maximum: 95.00
Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	311	60.00	464	79.00	1775	118.00	222
37.00	1909	61.00	2513	80.00	418	119.00	298
38.00	1568	62.00	2462	81.00	1878	128.00	60
39.00	619	63.00	1785	82.00	376	130.00	111
40.00	72	64.00	131	87.00	1986	137.00	51
44.00	202	67.00	55	88.00	1709	141.00	415
45.00	397	68.00	4945	91.00	152	143.00	489
47.00	821	69.00	4951	92.00	1245	148.00	51
48.00	242	70.00	384	93.00	2041	172.00	58
49.00	2004	72.00	237	94.00	5139	173.00	217
50.00	9938	73.00	2208	95.00	41904	174.00	21800
51.00	3120	74.00	7716	96.00	2841	175.00	1805
52.00	178	75.00	23448	104.00	230	176.00	20928
55.00	53	76.00	2283	106.00	150	177.00	1429
56.00	797	77.00	337	116.00	142		
57.00	1663	78.00	263	117.00	250		

Eurofins Air Toxics Inc.

Data file : /var/chem/msd14.i/15feb16.b/14021501.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-FEB-2016 10:19
Operator : js Inst ID: msd14.i
Smp Info : 2.0uL# 2299-1275; BFB; BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msd14.i/15feb16.b/bfb20.m
Meth Date : 15-Feb-2016 10:30 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.468	2.483	-0.015	95	24234			100.00- 100.00	100.00
2.468	2.483	-0.015	50	5580			8.00- 40.00	23.03
2.468	2.483	-0.015	75	13364			30.00- 66.00	55.15
2.468	2.483	-0.015	96	1428			5.00- 9.00	5.89
2.468	2.483	-0.015	173	61			0.00- 1.99	0.49
2.468	2.483	-0.015	174	12416			50.01- 120.00	51.23
2.468	2.483	-0.015	175	823			4.00- 9.00	6.63
2.468	2.483	-0.015	176	12054			93.00- 101.00	97.08
2.468	2.483	-0.015	177	851			5.00- 9.00	7.06

Data File: /chem/msd14.i/15feb16.b/14021501.d

Date : 15-FEB-2016 10:19

Client ID: BFB

Instrument: msd14.i

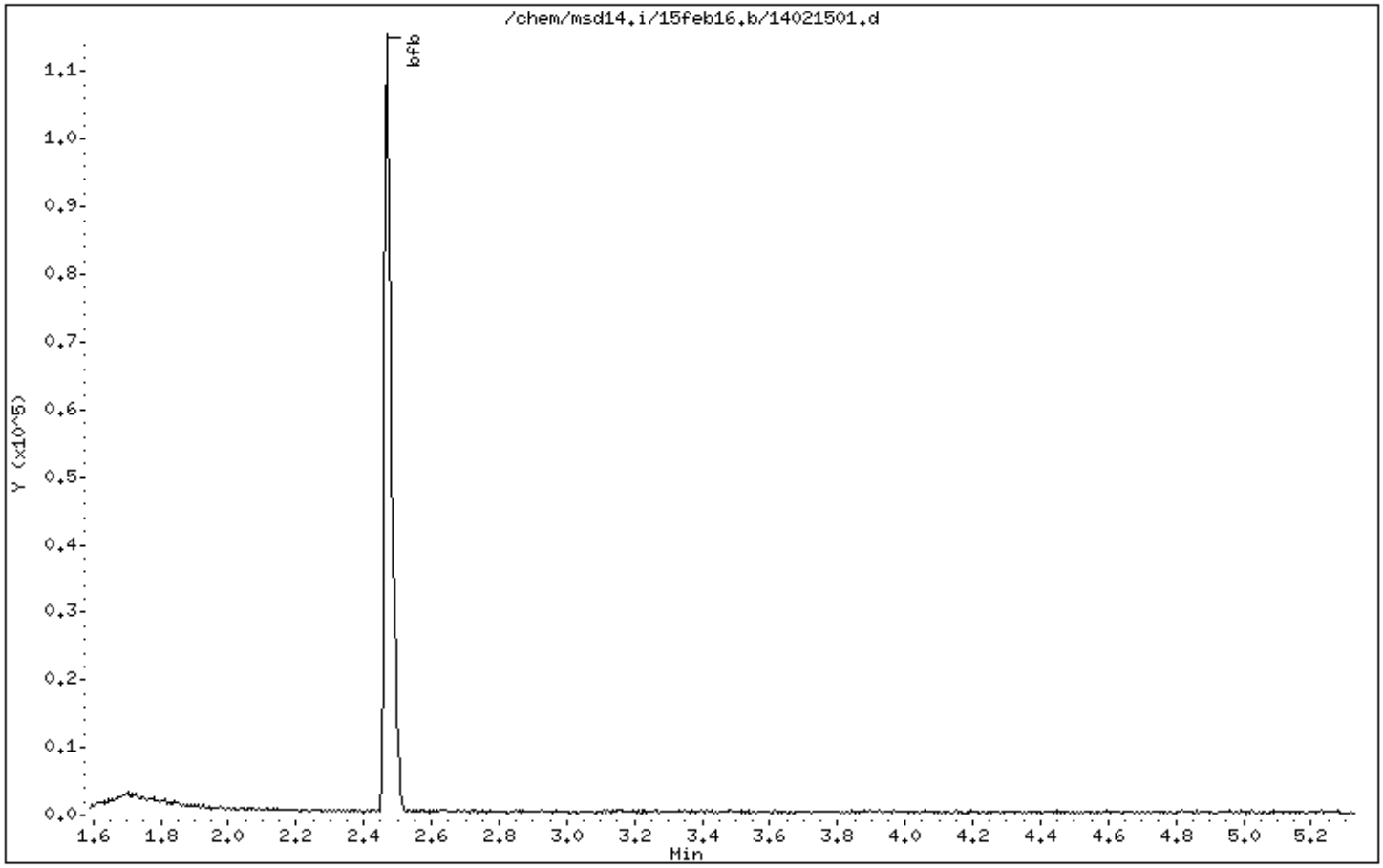
Sample Info: 2.0uL# 2299-1275; BFB; BFB

Volume Injected (uL): 1.0

Operator: js

Column phase:

Column diameter: 2.00



Data File: /chem/msd14.i/15feb16.b/14021501.d

Date : 15-FEB-2016 10:19

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0uL# 2299-1275; BFB; BFB

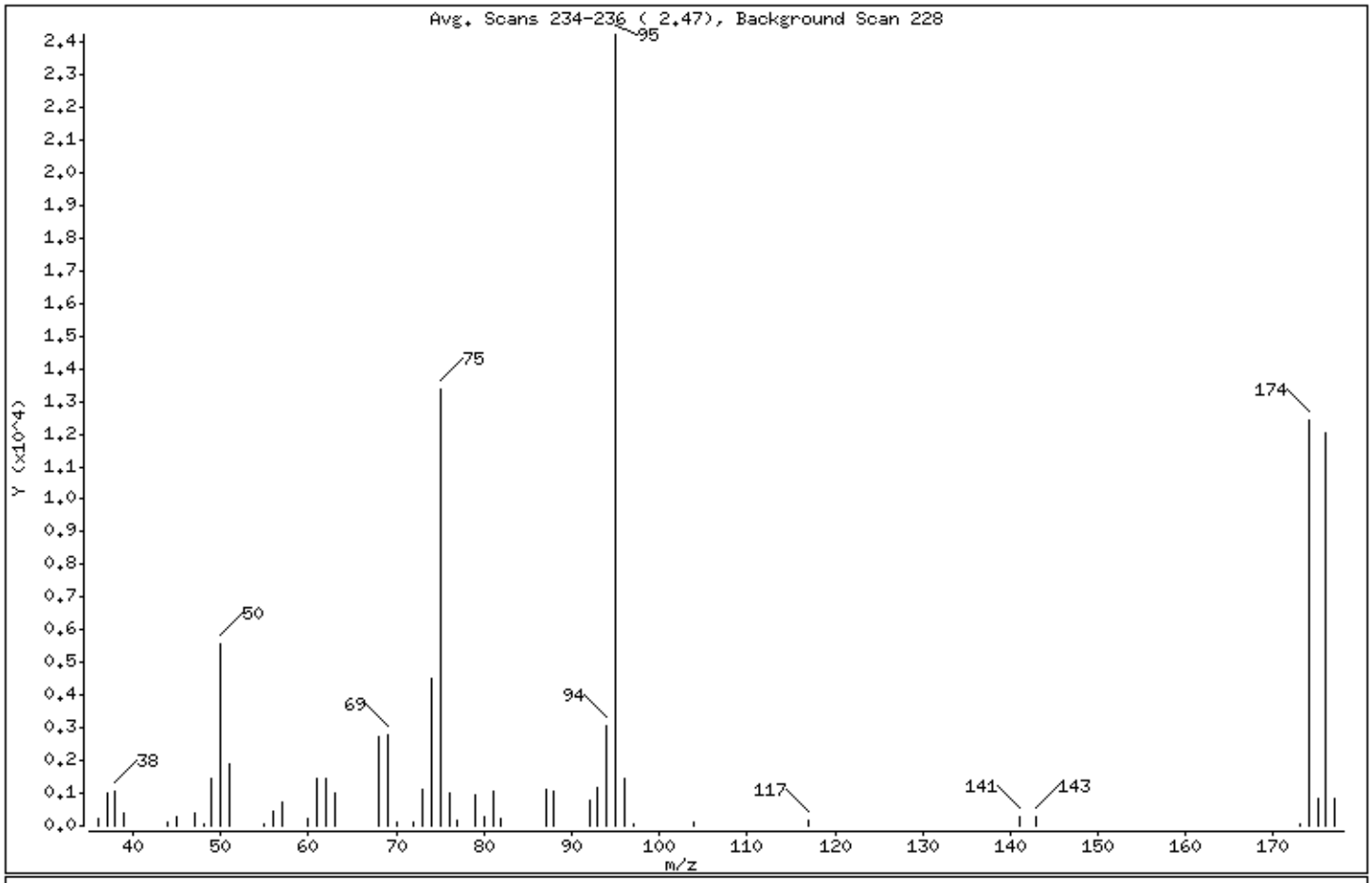
Volume Injected (uL): 1.0

Operator: js

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	23.03
75	30.00 - 66.00% of mass 95	55.15
96	5.00 - 9.00% of mass 95	5.89
173	Less than 1.99% of mass 174	0.25 (0.49)
174	50.01 - 120.00% of mass 95	51.23
175	4.00 - 9.00% of mass 174	3.40 (6.63)
176	93.00 - 101.00% of mass 174	49.74 (97.08)
177	5.00 - 9.00% of mass 176	3.51 (7.06)

Data File: /chem/msd14.i/15feb16.b/14021501.d

Date : 15-FEB-2016 10:19

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0uL# 2299-1275; BFB; BFB

Volume Injected (uL): 1.0

Operator: js

Column phase:

Column diameter: 2.00

Data File: 14021501.d
Spectrum: Avg. Scans 234-236 (2.47), Background Scan 228
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	241	57.00	725	77.00	177	104.00	89
37.00	993	60.00	226	79.00	935	117.00	174
38.00	1057	61.00	1438	80.00	290	141.00	254
39.00	372	62.00	1438	81.00	1062	143.00	253
44.00	85	63.00	980	82.00	218	173.00	61
45.00	286	68.00	2748	87.00	1087	174.00	12416
47.00	388	69.00	2763	88.00	1037	175.00	823
48.00	63	70.00	121	92.00	761	176.00	12054
49.00	1465	72.00	120	93.00	1144	177.00	851
50.00	5580	73.00	1140	94.00	3072		
51.00	1918	74.00	4508	95.00	24232		
55.00	78	75.00	13364	96.00	1428		
56.00	446	76.00	1018	97.00	52		

Shipping/ Receiving Documents

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

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

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

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

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

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

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

eurofins | Air Toxics

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Terry Taylor
Collected by: (Print and Sign) Terry Taylor
Company: AMAI
Email:
Address: 2700 Westchester City: Purchase State: NY Zip: 10591
Phone: Fax:

Project Info:
P.O. #:
Project #:
Project Name: BMS VI

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 (in Hg)	Final (in Hg)	Receipt	Final (psi)
11A	B30-1SSV013116	1L1536	1-31-16	1224	Full TO-15, CH4, MeOH	-30	-5		
12A	B30-2SSV013116	8002	1-31-16	1240		-30	-5		
13A	B30-3SSV013116	34578	1-31-16	1300		-30	-5		
14A	B30-4DSSV013116	1L1942	1-31-16	1320		-25	-5		
15A	B30-5SSV013116	11446	1-31-16	1349		-30	-5		
16A	B42-1SSV013116	34579	1-31-16	1640		-26.5	-4		
17A	B42-2SSV013116	37718	1-31-16	1606		-30	-5		
18A	B42-3SSV013116	36483	1-31-16	1624		-30	-5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	1/31/16 1725	[signature]	1/31/16 1725
[signature]	2/1/16 1200	[signature] EATL	2/2/16 1020

Notes: Report to MDL

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		N/A	GOOD	Yes No None	1602064

Form 1293 rev.11

Canister Dilution Form

Workorder #: 1602004B

Date Prepared: 2/15/16 **Expiration Date:** 3/1/16 **Initials:** JN

Pressurized By: JO 2/15/16 **1L pressurized to 15psi = 2000mL**

Sample ID	Sample Can #	Transfer Can #	Volume Sample Added (mL)	Final Volume	Final Dilution Factor	*Syringe ID	Time dilution was made (military)
11A	41536	9475	20 ml	2000	100 x	150301	1305

**All syringes used must be labeled with IDs generated by QA.*

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 1602064B

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: 02/15/16
Date Completed: 2/15/16
Date Received: 2/2/16
PO#:
Project#: BMS VI

Total $: $ 1,055.00
Logged By: JCW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
11A	B30-1SSV013116	TO-15	1/31/2016	4.7 "Hg	$125.00
12A	B30-2SSV013116	TO-15	1/31/2016	4.3 "Hg	$125.00
13A	B30-3SSV013116	TO-15	1/31/2016	6.1 "Hg	$125.00
14A	B30-4DSSV013116	TO-15	1/31/2016	6.3 "Hg	$125.00
15A	B30-5SSV013116	TO-15	1/31/2016	2.2 "Hg	$125.00
16A	B42-1SSV013116	TO-15	1/31/2016	4.5 "Hg	$125.00
17A	B42-2SSV013116	TO-15	1/31/2016	3.3 "Hg	$125.00
18A	B42-3SSV013116	TO-15	1/31/2016	3.3 "Hg	$125.00
19A	Lab Blank	TO-15	NA	NA	$0.00
19B	Lab Blank	TO-15	NA	NA	$0.00
20A	CCV	TO-15	NA	NA	$0.00
20B	CCV	TO-15	NA	NA	$0.00
21A	LCS	TO-15	NA	NA	$0.00
21AA	LCSD	TO-15	NA	NA	$0.00
21B	LCS	TO-15	NA	NA	$0.00
21BB	LCSD	TO-15	NA	NA	$0.00

Misc. Charges	eCVP (8) @ $5.00 each.	$40.00
	High Level Sample Prep (1) @ $15.00 each.	$15.00

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

DILUTION FACTORS

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

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

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

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	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	
110-54-3	Hexane	0.50	
75-34-3	1,1-Dichloroethane	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	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 Listing

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: 11/11/15
Workorder # 1602064B	Form F1.27	Revision #12	Revision Date: 11/11/15	Page 1 of 2

S1	S2	S3	S4	D	Section 1 – Spec Out				
					Initials/Instrument/Date	S1: MSD-14 GL 2/5/16	S2: SS/P/2/8/16	S3: MSD-14 Not used MG 2/9/16	S4: MSD-14 MG 2/15/16
✓	✓	✓	✓	■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓	NA	✓	✓	■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
NA	NA	NA	NA	■	Manual Integrations included and approved				
✓	✓	✓	✓		Chain of Custody verified for special comments (add comments below)				
✓	✓	✓	✓	■	Non-standard Target sublist verified (MDL, LOD, RL, control limits, etc.)				

Profile, analyses, reporting, special notes and unusual circumstances:

S1: Ø out QC

S2: 1 out LCS; JFlag MDL

S3: 1 out ↑ LCS

~~S4: Ø out CCV, 1 out LCS~~ MG 2/15/16

S4: 1 out CCV, 1 out LCS.

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
					Initials/Date	A1: GL 2/8/16	A2: MG 2/15/16	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				
✓	NA				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.				
✓	✓				All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)				

Analytical and special notes: A1: 12A, 13A, 15A, 17A, 18A Full Lounds; 14A + 16A Dil TC

A2: 11A Dil. TC (100x Can Dil.)

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/No		T:	
						Initials/instrument/ Date	D1: GL 2/15/16	D2: SS 2/15/16 (11A only)	D3:	D4:
NA	NA				■	CAR # (if applicable)				
✓	✓				■	Spectra Verified (documentation of spectral defense included if applicable)				
NA	NA				■	TICs resemble reference spectra/ TICs between sample dups. are consistent (if applicable)				
✓	✓					Lab Narrative is correct				
NA	NA				■	TPH/NMOC calculations complete and included in folder				

Special notes: D1: 12A-18A

A	3T	Section 4- Atlas Data Entry	Lumen verified and included in folder	Circle one: Yes/No
		Initials/Date: SS 2/15/16	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