
Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0801026

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Comments:

Completed by:

Kara McKiernan — Kara McKiernan / Document Control — 1/18/08

(Signature) (Print Name & Title) (Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0801026

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	01/03/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	01/16/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 1	Modified TO-15	6.5 "Hg	5 psi
02A(cancelled)	UW AMS 7	Modified TO-15	3.5psi	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 01/17/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0801026

Two 6 Liter Summa Canister samples were received on January 03, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Summa canister for sample UW AMS 7 was leaking upon arrival and canister valve was open. The client was notified and the analysis was cancelled.

Analytical Notes

There were no analytical discrepancies.

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.

0002

Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
DW AMS 1	0801026-01A	1/ 2/2008	1/ 3/2008	NA	6	1/ 8/2008	NA	Good
Lab Blank	0801026-03A	NA	NA	NA	NA	1/ 8/2008	NA	Good
CCV	0801026-04A	NA	NA	NA	NA	1/ 8/2008	NA	Good
LCS	0801026-05A	NA	NA	NA	NA	1/ 8/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 1

Lab ID#: 0801026-01A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 1

Lab ID#: 0801026-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010822**	**Date of Collection: 1/2/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 1/8/08 10:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	0.86	Not Detected	3.7	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 1

Lab ID#: 0801026-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010822**	**Date of Collection: 1/2/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 1/8/08 10:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	Not Detected	8.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-08jan.b/5010822.d
Lab Smp Id: 0801026-01A
Inj Date : 08-JAN-2008 22:39
Operator : xp Inst ID: msd5.i
Smp Info : 200mL #34014
Misc Info : 6.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-08jan.b/t14qn12c.m
Meth Date : 08-Jan-2008 12:22 cbond Quant Type: ISTD
Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	268193	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	201510			45.72- 105.72	75.14
8.059	8.059 (1.000)	49	618339			190.85- 250.85	230.56
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	953286	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	167562			0.00- 46.75	17.58
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	742447	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	450008			0.00- 30.00	60.61
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.110 (1.134)	65	416296	25.9328	25.933	80.00- 120.00	100.00
9.137	9.110 (1.134)	67	191687			27.88- 87.88	46.05
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	823524	24.4689	24.469	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	85727			0.00- 40.29	10.41

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	519908			37.87- 97.87	63.13
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	407297	23.5112	23.511	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	660373			123.44- 183.44	162.14
16.575	16.575 (1.105)	176	396524			67.78- 127.78	97.36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5010822.d
Lab Smp Id: 0801026-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /chem/msd5.i/5-08jan.b/t14qn12c.m
Misc Info: 6.5"Hg --> 5psi GEI

Calibration Date: 08-JAN-2008
Calibration Time: 10:40
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	265081	159049	371113	268193	1.17
92 1,4-Difluorobenze	975601	585361	1365841	953286	-2.29
125 Chlorobenzene-d5	739011	443407	1034615	742447	0.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-08jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0801026-01A
Level: LOW Operator: xp
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-08jan.b/t14qn12c.m
Misc Info: 6.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.933	103.73	70-130
$ 107 Toluene-d8	25.000	24.469	97.88	70-130
$ 138 Bromofluorobenzene	25.000	23.511	94.04	70-130

Data File: /chem/msd5.i/5-08jan.b/5010822.d

Date : 08-JAN-2008 22:39

Client ID:

Sample Info: 200mL #34014

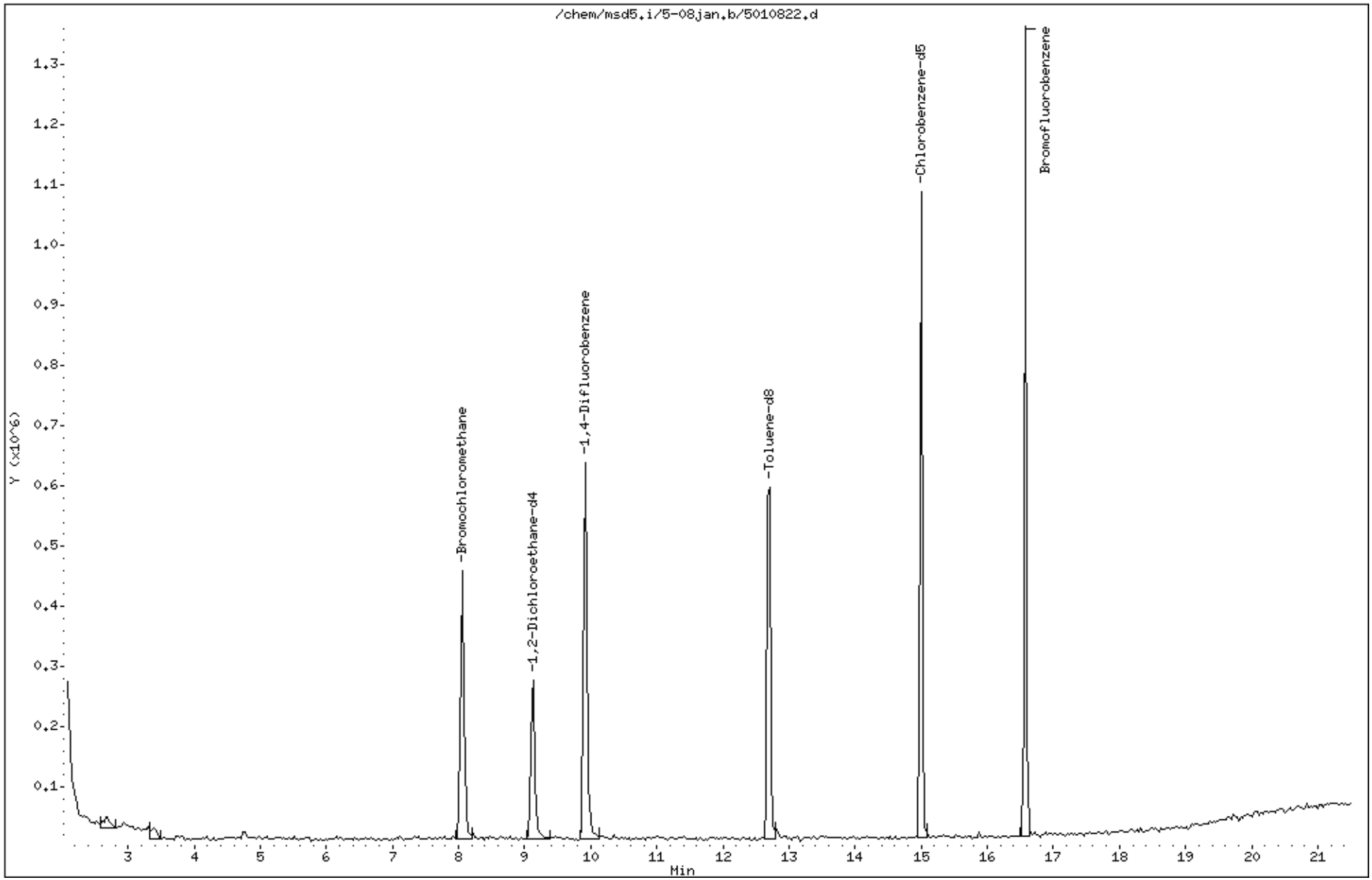
Column phase: RTx-624

Instrument: msd5.i

Operator: xp

Column diameter: 0.53

0013



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801026-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/08 12:27 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
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	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
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
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	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
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801026-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/08 12:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-08jan.b/5010807.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 08-JAN-2008 12:27
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Humid Cert Cart #10 Leg 1
Comment :
Method : /chem/msd5.i/5-08jan.b/t14qn12c.m
Meth Date : 08-Jan-2008 12:22 cbond Quant Type: ISTD
Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	238112	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	188084			45.72- 105.72	78.99
8.059	8.059 (1.000)	49	560309			190.85- 250.85	235.31
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	857973	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	136165			0.00- 46.75	15.87
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	676289	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	400379			0.00- 30.00	59.20
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.110 (1.134)	65	391653	27.4799	27.480	80.00- 120.00	100.00
9.137	9.110 (1.134)	67	182813			27.88- 87.88	46.68
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	708648	23.3948	23.395	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	71595			0.00- 40.29	10.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	445267			37.87- 97.87	62.83
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	374268	23.7180	23.718	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	587332			123.44- 183.44	156.93
16.575	16.575 (1.105)	176	356466			67.78- 127.78	95.24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5010807.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-08jan.b/t14qn12c.m
Misc Info: Humid Cert Cart #10 Leg 1

Calibration Date: 08-JAN-2008
Calibration Time: 10:40
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	265081	159049	371113	238112	-10.17
92 1,4-Difluorobenze	975601	585361	1365841	857973	-12.06
125 Chlorobenzene-d5	739011	443407	1034615	676289	-8.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 08-Jan-2008 12:34

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-08jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-08jan.b/t14qn12c.m
Misc Info: Humid Cert Cart #10 Leg 1

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	27.480	109.92	70-130
$ 107 Toluene-d8	25.000	23.395	93.58	70-130
$ 138 Bromofluorobenzene	25.000	23.718	94.87	70-130

Data File: /chem/msd5.i/5-08jan.b/5010807.d

Date : 08-JAN-2008 12:27

Client ID: Lab Blank

Sample Info: 200mL #12941

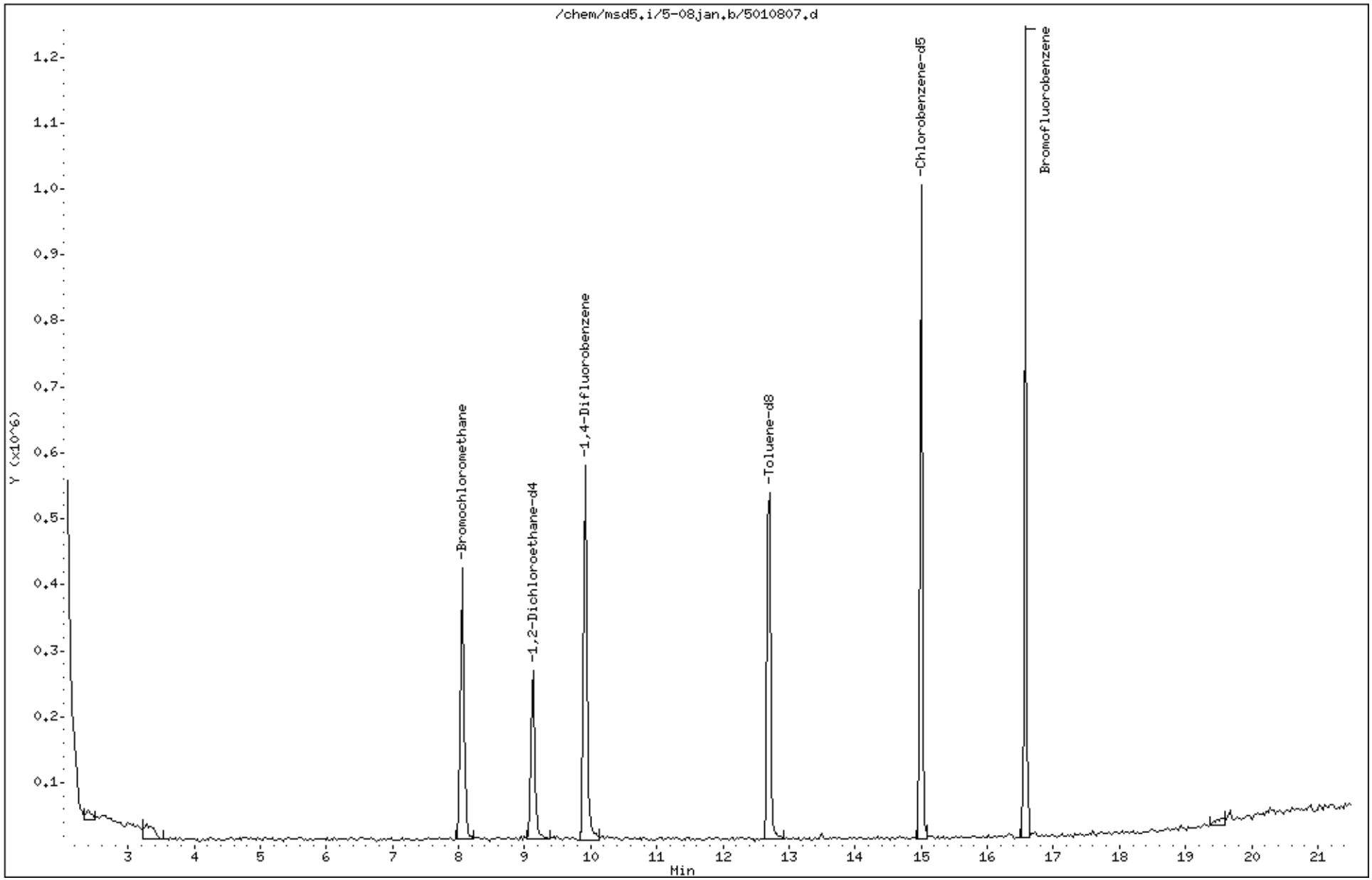
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0021



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0801026

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 1	104		98		94				0
02	Lab Blank	110		94		95				0
03	CCV	104		99		102				0
04	LCS	108		102		102				0
05										0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130
Toluene-d8 70 - 130
4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0801026
Lab File ID: 5010805.d
Date Analyzed: 01/08/2008
Instrument ID: msd5.i
Time Analyzed: 10:40 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	739011		15		975601		9.91		265081		8.06	
	UPPER LIMIT	1034615		15.33		1365841		10.24		371113		08.39	
	LOWER LIMIT	443407		14.67		585361		09.58		159049		07.73	
	CLIENT SAMPLE NO												
01	DW AMS 1	742447		15		953286		9.91		268193		8.06	
02	Lab Blank	676289		15		857973		9.91		238112		8.06	
03	CCV	739011		15		975601		9.91		265081		8.06	
04													
05													
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

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22
End Cal Date : 27-NOV-2007 12:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-12nov.b/5111207.d
Level 2: /chem/msd5.i/5-12nov.b/5111232.d
Level 3: /chem/msd5.i/5-27nov.b/5112706.d
Level 4: /chem/msd5.i/5-12nov.b/5111210.d
Level 5: /chem/msd5.i/5-27nov.b/5112702.d
Level 6: /chem/msd5.i/5-12nov.b/5111212.d
Level 7: /chem/msd5.i/5-27nov.b/5112707.d
Level 8: /chem/msd5.i/5-13nov.b/5111303.d

Compound	0.20000 Level 1 / 200.000 Level 7	0.50000 Level 2 / 250.000 Level 8	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 Freon134a	+++++ / 1.02819	+++++	0.94452	+++++	1.13299	+++++	1.03523	9.122
2 Propane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	+++++	+++++
3 Freon 152a	+++++ / 0.98320	+++++	0.75951	+++++	1.05087	+++++	0.93120	16.375
4 Freon 22	+++++ / 0.27887	+++++	0.29507	+++++	0.29162	+++++	0.28852	2.957
5 Freon142b	+++++ / 2.06052	+++++	1.28221	+++++	2.22653	+++++	1.85642	27.158
6 Propylene	+++++ / 1.77133	+++++	1.33663	1.98098	1.84757	1.78835	1.74497	13.907
7 Isobutane	+++++ / 4.69001	+++++	3.76183	+++++	5.30591	+++++	4.58592	16.949

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
8 Dichlorodifluoromethane/Fr12	+++++	2.14296	2.41813	3.42716	3.06268	3.40660		
	3.27897	+++++					2.95608	18.473
9 Freon 114	+++++	2.35572	2.34787	3.13944	2.87726	2.78949		
	2.67692	+++++					2.69778	11.432
10 Chloromethane	+++++	+++++	1.60683	2.55808	2.34986	2.35020		
	2.23347	+++++					2.21969	16.310
11 Butane	+++++	+++++	0.42153	0.59949	0.55149	0.53532		
	0.53045	+++++					0.52766	12.376
12 1,3-Butadiene	+++++	1.36769	1.32470	2.25041	2.03875	2.02523		
	1.94101	+++++					1.82463	21.079
13 Vinyl Chloride	+++++	1.94068	1.71199	2.50747	2.31038	2.22243		
	2.12601	+++++					2.13649	13.137
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
15 Bromomethane	+++++	1.17885	1.02592	1.63273	1.51216	1.48575		
	1.44040	+++++					1.37930	16.596
16 Dichlorofluoromethane/Fr21	+++++	+++++	1.96732	+++++	2.44556	+++++		
	2.29871	+++++					2.23719	10.950
17 Isopentane	+++++	+++++	2.50260	3.49372	3.22831	3.19381		
	3.05601	+++++					3.09489	11.861

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	200.000 Level 7	250.000 Level 8						
18 Pentane	+++++	+++++	3.62243	+++++	5.34445	+++++		
	5.08515	+++++					4.68401	19.822
19 Chloroethane	+++++	1.13285	0.86045	1.28504	1.09440	1.08050		
	1.06729	+++++					1.08675	12.558
20 Trichlorofluoromethane/Fr11	+++++	2.87555	2.52189	3.78007	3.49996	3.38902		
	3.27118	+++++					3.22295	14.077
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
22 Freon123a	+++++	+++++	1.16671	+++++	1.25309	+++++		
	1.29965	+++++					1.23982	5.441
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
24 Freon123	+++++	+++++	1.96506	+++++	2.55391	+++++		
	2.46247	+++++					2.32714	13.617
25 Acrolein	+++++	+++++	0.33707	+++++	0.72341	+++++		
	0.69057	+++++					0.58368	36.699
26 Ethanol	+++++	+++++	0.52661	0.83695	0.76785	0.72130		
	0.64815	+++++					0.70017	16.984
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

Air Toxics Ltd.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
30 Freon 113	+++++	1.91659	1.56182	2.37148	2.10219	2.07645		
	1.99552	+++++					2.00401	13.262
31 1,1-Dichloroethene	+++++	2.21687	2.16206	3.06675	2.86001	2.81451		
	2.79309	+++++					2.65222	14.016
32 Acetone	+++++	+++++	0.61101	1.11948	1.08688	1.08129		
	1.06149	+++++					0.99203	21.573
33 Methyl Acetate	+++++	+++++	2.71505	+++++	4.34600	+++++		
	4.02826	+++++					3.69644	23.391
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
35 Carbon Disulfide	+++++	3.32414	3.49304	5.41847	4.96922	4.94551		
	4.79833	+++++					4.49145	19.275
36 2-Propanol	+++++	+++++	2.31777	3.85058	3.80252	3.87240		
	3.80888	+++++					3.53043	19.219
37 tert-Butyl-Alcohol	+++++	+++++	1.68840	+++++	1.36172	+++++		
	0.84739	+++++					1.29917	32.635

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	250.000 Level 8	___ RRF	% RSD
38 3-Chloropropene	+++++	+++++	0.53986	0.82084	0.81735	0.79617	0.76493	+++++	0.74783	15.828
39 Acrylonitrile	+++++	+++++	1.31733	+++++	2.12469	+++++	2.08501	+++++	1.84234	24.702
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	2.00220	+++++	2.87804	+++++	2.70156	+++++	2.52727	18.328
43 Methylene Chloride	+++++	2.18980	1.79922	2.58303	2.37732	2.36058	2.29716	+++++	2.26785	11.608
44 Ethyl Ether	+++++	+++++	0.73961	+++++	1.09163	+++++	1.03698	+++++	0.95607	19.815
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	2.26968	1.51670	1.87823	1.71311	1.57976	1.28551	+++++	1.70717	19.882
47 trans-1,2-Dichloroethene	+++++	1.16025	1.27834	1.92147	1.76911	1.77243	1.73593	+++++	1.60625	19.224

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD	
	200.000 Level 7	250.000 Level 8							
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
49 Isopropyl ether	+++++	+++++	4.92934	+++++	6.87591	+++++			
	6.93254	+++++					6.24593	18.261	
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
51 Hexane	+++++	2.46682	2.43567	3.86592	3.61363	3.63581			
	3.58034	+++++					3.26636	19.577	
52 Chloroprene	+++++	+++++	2.08646	+++++	3.48132	+++++			
	3.30969	+++++					2.95915	25.704	
53 Iodomethane	+++++	+++++	2.27666	+++++	4.12055	+++++			
	3.55312	+++++					3.31677	28.473	
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
55 1,1-Dichloroethane	+++++	2.10360	2.41092	3.46585	3.17790	3.17315			
	3.11876	+++++					2.90836	18.148	
56 Vinyl Acetate	+++++	+++++	0.16492	0.41424	0.40332	0.42711			
	0.43264	+++++					0.36845	31.034	<-
57 Ethyl-tert-butyl Ether	+++++	+++++	1.77550	+++++	3.01750	+++++			
	2.37836	+++++					2.39046	25.982	

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	250.000 Level 8	___ RRF	% RSD	
58 1-Hexene	+++++	+++++	1.01069	+++++	1.69978	+++++	1.68542	+++++	1.46530	26.873	
59 1,3-Dichloropropane	+++++	+++++	0.35918	+++++	0.55397	+++++	0.51750	+++++	0.47688	21.715	
60 2,2-Dichloropropane	+++++	+++++	1.26874	+++++	1.99847	+++++	1.92216	+++++	1.72979	23.188	
61 Ethyl Acetate	+++++	+++++	0.21783	+++++	0.31814	+++++	0.33777	+++++	0.29125	22.090	
62 Methyl Acrylate	+++++	+++++	1.65144	+++++	3.50217	+++++	3.66577	+++++	2.93979	38.055	
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
64 1-Propanol	+++++	+++++	0.12700	+++++	0.30625	+++++	0.34871	+++++	0.26065	45.147	<-
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 cis-1,2-Dichloroethene	+++++	1.79718	1.78128	2.54908	2.33516	2.32726	2.31230	+++++	2.18371	14.552	
67 2-Butanone	+++++	0.64058	0.42684	0.77906	0.78663	0.78694	0.79131	+++++	0.70189	20.918	

Air Toxics Ltd.

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Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
70 Tetrahydrofuran	+++++	2.89615	2.01569	2.81384	2.66945	2.66508		
	2.62003	+++++					2.61338	11.896
72 Chloroform	+++++	1.85697	2.01228	2.91307	2.70085	2.66696		
	2.63482	+++++					2.46416	17.224
73 1,1-Dichloropropene	+++++	+++++	0.50371	+++++	0.76357	+++++		
	0.70852	+++++					0.65860	20.792
74 Cyclohexane	+++++	1.48727	1.55950	2.36916	2.18953	2.16867		
	2.13124	+++++					1.98423	18.494
75 1,1,1-Trichloroethane	+++++	2.14462	1.90906	2.79475	2.68520	2.63285		
	2.61196	+++++					2.46307	14.281
76 Isobutanol	+++++	+++++	0.26685	+++++	0.39129	+++++		
	0.42205	+++++					0.36006	22.823
77 Carbon Tetrachloride	+++++	1.39443	1.55958	2.42097	2.25001	2.29409		
	2.28291	+++++					2.03366	21.548
78 tert-amyl-Methyl Ether	+++++	+++++	1.56158	+++++	2.40734	+++++		
	1.78316	+++++					1.91736	22.873

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22
End Cal Date : 27-NOV-2007 12:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
80 2,2,4-Trimethylpentane	+++++	6.46742	6.43483	10.79687	9.93119	10.12077		
	9.98846	+++++					8.95659	21.942
81 Benzene	+++++	0.86714	0.83488	1.27550	1.21675	1.15483		
	1.11627	+++++					1.07756	17.071
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
85 1,2-Dichloroethane	+++++	0.40590	0.38967	0.56859	0.54489	0.53423		
	0.51864	+++++					0.49365	15.434
86 2-Pentanone	+++++	+++++	0.71310	+++++	1.48585	+++++		
	1.53779	+++++					1.24558	37.081
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
88 Ethyl Acrylate	+++++	+++++	0.58998	+++++	1.13179	+++++		
	1.15887	+++++					0.96022	33.421
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22
End Cal Date : 27-NOV-2007 12:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
90 Heptane	+++++	0.08116	0.08418	0.14505	0.14238	0.13769		
	0.13168	+++++					0.12036	24.559
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
93 Trichloroethene	+++++	0.42639	0.32876	0.49891	0.47147	0.45370		
	0.44315	+++++					0.43706	13.406
94 Methyl Cyclohexane	+++++	0.48944	0.48701	0.73738	0.69656	0.66783		
	0.65602	+++++					0.62237	17.293
95 Dibromomethane	+++++	+++++	0.24775	+++++	0.35521	+++++		
	0.33362	+++++					0.31219	18.207
96 Methyl Methacrylate	+++++	+++++	0.41367	+++++	0.79182	+++++		
	0.80096	+++++					0.66882	33.045
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
98 1,2-Dichloropropane	+++++	0.38729	0.35186	0.46911	0.46335	0.43802		
	0.43292	+++++					0.42376	10.768
99 1,4-Dioxane	+++++	+++++	0.18537	0.25698	0.27094	0.25881		
	0.25845	+++++					0.24611	13.984
100 Bromodichloromethane	+++++	0.49548	0.48012	0.69796	0.67917	0.66072		
	0.65298	+++++					0.61107	15.852

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22
End Cal Date : 27-NOV-2007 12:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.29735	0.32667	0.48832	0.50244	0.49504		
	0.48873	+++++					0.43309	21.793
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
106 4-Methyl-2-pentanone	0.43175	0.16694	0.23634	0.41147	0.41700	0.40645		
	0.40118	+++++					0.35302	29.961
108 Toluene	+++++	1.09567	0.86508	1.24060	1.20496	1.14109		
	1.12239	+++++					1.11163	11.891
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22
End Cal Date : 27-NOV-2007 12:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	200.000 Level 7	250.000 Level 8							
112 Alphamethylstyrene	+++++	+++++	0.37209	+++++	0.87896	+++++			
	0.91363	+++++					0.72156	42.013	<-
113 trans-1,3-Dichloropropene	+++++	0.18296	0.29498	0.61567	0.62632	0.62490			
	0.64674	0.70569					0.52818	38.318	<-
114 1,1,2-Trichloroethane	+++++	0.39610	0.39469	0.54509	0.51796	0.49373			
	0.47937	+++++					0.47116	13.327	
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
116 Tetrachloroethene	+++++	0.45111	0.49434	0.64278	0.59961	0.56072			
	0.53734	+++++					0.54765	12.700	
117 Bis(2-chloroethyl) ether	+++++	+++++	0.62771	+++++	0.92422	+++++			
	1.00285	+++++					0.85159	23.231	
118 Butyl Acetate	+++++	+++++	0.25494	+++++	0.44184	+++++			
	0.43981	+++++					0.37886	28.327	
119 2-Hexanone	+++++	+++++	0.38705	0.70746	0.73728	0.72182			
	0.73265	+++++					0.65725	23.048	
120 Dibromochloromethane	+++++	0.48543	0.46005	0.78337	0.75484	0.73819			
	0.73361	+++++					0.65925	22.107	
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	

Air Toxics Ltd.

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	200.000 Level 7	250.000 Level 8						
122 1,2-Dibromoethane	+++++	0.52523	0.51112	0.81252	0.78864	0.75350		
	0.75279	+++++					0.69063	19.626
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.33132	+++++	0.52257	+++++		
	0.48676	+++++					0.44688	22.752
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
126 Chlorobenzene	+++++	0.88825	0.94525	1.24714	1.18342	1.10891		
	1.08181	+++++					1.07580	12.765
127 Nonane	+++++	+++++	0.86684	+++++	1.69464	+++++		
	1.64249	+++++					1.40132	33.084
128 Ethyl Benzene	+++++	0.53437	0.38875	0.68425	0.66879	0.60711		
	0.60394	+++++					0.58120	18.645
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
130 m,p-Xylene	+++++	0.54044	0.51688	0.87274	0.82250	0.77957		
	0.75100	+++++					0.71385	20.930
131 2-Heptanone	+++++	+++++	0.52167	+++++	0.79118	+++++		
	0.91641	+++++					0.74309	27.146
132 o-Xylene	+++++	0.56408	0.52558	0.79941	0.76308	0.73032		
	0.69050	+++++					0.67883	16.282

Air Toxics Ltd.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
133 Styrene	1.01812	0.58973	0.60689	1.26959	1.21344	1.16476		
	1.14342	+++++					1.00085	28.528
134 Bromoform	+++++	0.48390	0.40330	0.67685	0.68425	0.64213		
	0.63460	+++++					0.58750	19.734
135 Cyclohexanone	+++++	+++++	0.53372	+++++	0.71042	+++++		
	0.75222	+++++					0.66546	17.429
136 Cumene	2.76185	1.36519	1.48674	2.40147	2.32384	2.19490		
	1.87373	+++++					2.05825	24.639
137 Bromobenzene	+++++	+++++	0.43766	+++++	0.64466	+++++		
	0.57640	+++++					0.55291	19.077
139 1,2,3-Trichloropropane	+++++	+++++	0.24503	+++++	0.34523	+++++		
	0.31982	+++++					0.30336	17.170
140 2-Chlorotoluene	+++++	+++++	0.32740	+++++	0.54839	+++++		
	0.51453	+++++					0.46344	25.683
141 1,1,2,2-Tetrachloroethane	+++++	0.76674	0.86441	1.23496	1.15323	1.08107		
	1.04200	+++++					1.02374	17.278
142 Propylbenzene	+++++	1.52345	1.84115	2.86189	2.84745	2.63995		
	2.43007	+++++					2.35732	23.556
143 4-Chlorotoluene	+++++	+++++	0.35794	+++++	0.54350	+++++		
	0.52520	+++++					0.47555	21.503

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7	250.000 Level 8						
144 4-Ethyltoluene	+++++	1.26455	1.45132	2.47094	2.39413	2.28584		
	2.15067	+++++					2.00291	25.686
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	1.47619	+++++	1.90111	+++++		
	1.88785	+++++					1.75505	13.766
147 1,3,5-Trimethylbenzene	+++++	1.25900	1.34770	2.28575	2.15752	2.06450		
	1.74793	+++++					1.81040	23.861
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
149 tert-Butylbenzene	+++++	+++++	1.47499	+++++	2.12146	+++++		
	2.17492	+++++					1.92379	20.251
150 Pentachloroethane	+++++	+++++	0.21671	+++++	0.39389	+++++		
	0.40303	+++++					0.33788	31.085
151 sec-Butylbenzene	+++++	+++++	1.76154	+++++	2.70134	+++++		
	2.38802	+++++					2.28363	20.954
152 1,2,4-Trimethylbenzene	+++++	1.00582	1.15157	1.83029	1.81563	1.72281		
	1.68855	+++++					1.53578	23.510
153 p-Cymene	+++++	+++++	0.33781	+++++	0.56323	+++++		
	0.58177	+++++					0.49427	27.477

Air Toxics Ltd.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	250.000 Level 8	___ RRF	% RSD	
154 1,2,3-Trimethylbenzene	+++++	+++++	0.48220	+++++	0.82940	+++++	0.81804	+++++	0.70988	27.788	
155 1,3-Dichlorobenzene	+++++	0.99769	0.86656	1.24394	1.19375	1.12009	1.10147	+++++	1.08725	12.604	
156 1,4-Dichlorobenzene	+++++	0.94834	1.10360	1.51808	1.44770	1.37048	1.25731	+++++	1.27425	16.993	
157 alpha-Chlorotoluene	1.60406	0.82175	0.79269	1.98425	2.19183	2.23850	1.59858	+++++	1.60452	37.419	<-
158 Butylbenzene	+++++	+++++	0.31099	+++++	0.50442	+++++	0.52164	+++++	0.44568	26.243	
159 1,2-Dichlorobenzene	+++++	1.01178	1.08493	1.26153	1.21775	1.17597	1.10932	+++++	1.14355	8.057	
160 Hexachloroethane	+++++	+++++	0.45089	+++++	0.75661	+++++	0.77025	+++++	0.65925	27.391	
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.29642	+++++	0.50709	+++++	0.56221	+++++	0.45524	30.813	
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
163 1,2,4-Trichlorobenzene	+++++	+++++	0.77054	0.82814	0.85214	0.80829	0.79944	+++++	0.81171	3.778	

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m
Cal Date : 27-Nov-2007 15:32 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	200.000 Level 7	250.000 Level 8						
164 Hexachlorobutadiene	+++++	+++++	0.53651	0.60902	0.60706	0.56299		
	0.53576	+++++					0.57027	6.346
165 Naphthalene	+++++	+++++	2.57361	3.03888	3.14450	3.06743		
	1.69291	+++++					2.70346	22.481
166 1,2,3-Trichlorobenzene	+++++	+++++	0.83081	+++++	1.04576	+++++		
	1.08304	+++++					0.98654	13.801
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
192 Cyclopentene	+++++	+++++	2.78953	+++++	4.17550	+++++		
	3.86686	+++++					3.61063	20.153
$ 84 1,2-Dichloroethane-d4	+++++	1.40375	1.44058	1.44597	1.38908	1.53501		
	1.57317	1.68718					1.49639	7.195
$ 107 Toluene-d8	+++++	0.84718	0.87004	0.89425	0.89966	0.87285		
	0.90672	0.88771					0.88263	2.332
$ 138 Bromofluorobenzene	+++++	0.56787	0.55601	0.59299	0.58759	0.57170		
	0.59244	0.61468					0.58333	3.355

Calibration History

Method : /chem/msd5.i/5-27nov.b/t14qn12c.m
Start Cal Date: 12-NOV-2007 13:22
End Cal Date : 27-NOV-2007 12:08

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
12-NOV-2007 13:22	AFCEElow	/chem/msd5.i/5-12nov.b/5111207.d
Cal Level: 2 , Cal Amount: 0.50000		
13-NOV-2007 10:41	AT04Low+ENSR	/chem/msd5.i/5-12nov.b/5111232.d
Cal Level: 3 , Cal Amount: 2.00000		
27-NOV-2007 11:36	sp19b	/chem/msd5.i/5-27nov.b/5112706.d
19-NOV-2007 01:56	sp21b	/chem/msd5.i/5-19nov.b/5111902.d
12-NOV-2007 19:20	sp20a	/chem/msd5.i/5-12nov.b/5111216.d
12-NOV-2007 14:17	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111209.d
Cal Level: 4 , Cal Amount: 25.00000		
12-NOV-2007 14:45	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111210.d
Cal Level: 5 , Cal Amount: 50.00000		
27-NOV-2007 09:21	sp19b	/chem/msd5.i/5-27nov.b/5112702.d
19-NOV-2007 02:24	sp21b	/chem/msd5.i/5-19nov.b/5111903.d
12-NOV-2007 19:48	sp20a	/chem/msd5.i/5-12nov.b/5111217.d
12-NOV-2007 15:12	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111211.d
Cal Level: 6 , Cal Amount: 100.00000		
12-NOV-2007 15:41	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111212.d
Cal Level: 7 , Cal Amount: 200.00000		
27-NOV-2007 12:08	sp19b	/chem/msd5.i/5-27nov.b/5112707.d

19-NOV-2007 02:57	sp21b	/chem/msd5.i/5-19nov.b/5111904.d
12-NOV-2007 20:20	sp20a	/chem/msd5.i/5-12nov.b/5111218.d
12-NOV-2007 16:13	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111213.d

Cal Level: 8 , Cal Amount: 250.00000		
13-NOV-2007 12:52	Level8	/chem/msd5.i/5-13nov.b/5111303.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
27-NOV-2007 09:49	AT04ENSR	/chem/msd5.i/5-27nov.b/5112703.d
Ccal Level: 5 , Ccal Amount: 50.000		
27-NOV-2007 09:21	sp19b	/chem/msd5.i/5-27nov.b/5112702.d
Ccal Level: 5 , Ccal Amount: 50.000		
27-NOV-2007 09:21	sp19bCCV	/chem/msd5.i/5-27nov.b/5112702a.d

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 11/12/2007 and 11/13/2007. As noted on the accompanying analytical run logs, the following point calibration level 2 was re-analyzed due to:

a. unacceptable peak resolution and/or integration of 2-Butanone

The following compounds used either 0.2 or 0.25 ppbv as the lowest calibration concentration:
Cumene, alpha-Chlorotoluene, trans-1,3-Dichloropropene, and Styrene.

@ Air Toxics Ltd.

MSD-5

Logbook #: 1586

0044

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.19
75	30.0 – 60.0% of mass 95	42.68
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.38
173	Less than 2.0% of mass 174	(0.85)[1]
174	Greater than 50.0% of mass 95	70.79
175	5.0 – 9.0% of mass 174	(7.30)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.59)[1]
177	5.0 – 9.0% of mass 176	(6.30)[2]

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

BFB Injection Date: 11/12/07
BFB Injection Time: 1207
BFB File ID: 5111205
Tekmar Purge Flow: 12.5 mL/min
Vacuum: 5.58 x 10^{-5} torr

IS/S Std.#: 1487-407	Exp. Date: 01/24/08	
BCM	355243	
1,4-DFB	13036915	
CB-d5	1023463	

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

Verify 176/174 m/z Ratio: 681408/705472 x 100 = 96.59%

NOAH Cart #: 8 **File #:** F111209 (11-13-07 CT)

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 493461\ )}{(\ 355243\ )} \times \frac{(\ 25\ )}{(\ 1.49639\ )} = 23.207$

Reported Result 23.207

File ID:	5111205
Compound:	1,2-DCA-d4
Initials:	CT

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5111205	BFB Tune Check	1476-65	50ng	2uL	1.00	11/12/07	1201	CB	Single scan 102 Apex +1
2	✓	06	System Blank	13673	Humid	200mL			1254	CB	
3	✓	07	ICAL Level 1	1576-89	200 ppbv - 0.2 ppbv	0.2mL			1322	CB	TIHqN12a
4	✓	08	2		200 ppbv - 0.5 ppbv	0.5mL			1349	CB	
5	✓	09	3		200 ppbv - 2 ppbv	2mL			1417	CB	
6	✓	10	4		200 ppbv - 25 ppbv	25mL			1445	CB	
7	✓	11	5		200 ppbv - 50 ppbv	50mL			1512	CB	CCV
8	✓	12	6		200 ppbv - 100 ppbv	100mL			1541	CB	
9	✓	13	7		200 ppbv	200mL			1613	SS	
10	✓	14	System Blank	12942	Humid	200mL			1758	CB	

11-13-07 CT

11	✓	5111215	ICAL Level 3	1576-88	20 ppbv	2.0 mL	1.00	11/2/07	~~1758~~ 1838	ES 11/2/07		Not Needed
12	✓	5111216	SpICAL Level 3	1487-424	20 ppbv	20 mL			1920			Sp20a
13	✓	17	↓ ↓ 5	↓	50 ppbv	50 mL			1948			CCVsp
14	✓	18	↓ ↓ 7	↓	200 ppbv	200 mL			2020	↓		
15	X	19	ICAL LCS	1576-113	50 ppbv	50 mL			2144	BJ CT.		Not used
16	X	20	↓	↓	↓	↓			2333	BJ CT.		↓
17	X	21	System Blank	12941	Humid	200 mL		11/13/07	0028	BJ CT.		
18	X	22	Lab Blank	↓	↓		↓		0113	BJ C.T.		
19	X	23	07110116A-06A	SC48	6.5 "Hg-15psi		2.58		0228	BJ CT.		
20	X	24	-07A	2122	0.2 psi-15psi		1.99		0300	BJ CT.		
21	X	25	-08A	34594	5.5 "Hg-15psi 0.0		4.99		0333	BJ CT.		
22	X	26	-09A	1742	5.0		2.42		0405	BJ C.T.		
23	X	27	-10A	1737	5.5		2.47		0437	BJ C.T.		
24	X	28	-11A	30829	8.5		2.82		0509	C.T.		
25	X	29	-12A	34628	5.0	100mL	4.84		0538	C.T.		
26	X	30	-13A	SC59	6.5	200mL	2.58		0610	C.T.		
27	✓	31	Lab Blank	12941	Humid	200mL	1.00		1014	C.T.		
28	✓	32	ICAL Level 2 (200ppbv)	1576-89	0.5 ppbv	0.5mL	1.00		1041	C.T.		
29												
30												
31												
32												

0045

Comments:

Actual 25.0 Nominal 22.6 11-13-07 CT

Flow controller Serial # AA920318

Mist flow meter Serial #200-7744 exp 8-31-08

CTaylor
Signature

11-13-07
Date

@ Air Toxics Ltd. **MSD-5** Logbook #: 1586

0046

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.66
75	30.0 – 60.0% of mass 95	45.54
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.59
173	Less than 2.0% of mass 174	(0.41)[1]
174	Greater than 50.0% of mass 95	61.39
175	5.0 – 9.0% of mass 174	(7.52)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.43)[1]
177	5.0 – 9.0% of mass 176	(6.21)[2]

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

Verify 176/174 m/z Ratio: 379392 / 389376 x 100 = 97.43

BFB Injection Date: 11-13-07
BFB Injection Time: 1136
BFB File ID: 5111301
Tekmar Purge Flow: 12.5 mL/min
Vacuum: 6.40 x 10-6

IS/S Std.#:	1482-401	Exp. Date: 01/24/08
BCM	332179	
1,4-DFB	1233793	
CB-d5	987199	

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

NOAH Cart #: — **File #:** —

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF}$ = $\frac{(\ 471871\ )}{(\ 4778.\ )}$ (11-13-07 C.T. 332179) × $\frac{(\ 25\ )}{(\ 1.49639\ )}$ = 23.733

Reported Result 23.733

File ID: 5111305
Compound: 1,2-DCA-d4
Initials: CT

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	↘	5111301	BFB Tune check	1476-65	5ong	2µL	1.00	11-13-07	1136	C.T.	
2	X	02	CCV (200ppbv)	1576-89	50ppbv	50mL			1211	C.T.	
3	↘	03	ICAL Level 8 (@ 1000ppbv) 11-13-07 C.T.	1497-139	250ppbv	50mL			1252	C.T.	TI40N12a
4	↘	04	Lab Blank	12941	Humid	200mL			1324	C.T.	
5	↘	05	CCV-1 (200ppbv)	1576-89	50ppbv	50mL			1351	C.T.	
6	↘	06	LCS-1 (200ppbv)	1576-113	50ppbv	50mL			1419	C.T.	ICAL LCS
7	↘	07	Lab Blank	12941	Humid	200mL	1.00		1530	C.T.	certcert+10 leg1
8											
9											
10											11-13-07 C.T.

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MSD-5

Logbook #: 1586

0047

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.36
75	30.0 – 60.0% of mass 95	47.57
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	(0.76)[1]
174	Greater than 50.0% of mass 95	64.09
175	5.0 – 9.0% of mass 174	(7.32)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.32)[1]
177	5.0 – 9.0% of mass 176	(6.11)[2]

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

BFB Injection Date: 11/19/07

BFB Injection Time: 0033

BFB File ID: 5111901

Tekmar Purge Flow: 2

Vacuum: 11/19/07

IS/S Std.#:	1487-401	Exp. Date: 1/24/08
BCM	345866	
1,4-DFB	1304928	
CB-d5	994233	

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

Verify 176/174 m/z Ratio: 619498/636565 x 100 = 97.32% ✓

NOAH Cart #: 14/11 **File #:** 5111910/J111911

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1130502\ )}{(\ 1304928\ )} \times \frac{(\ 25.0\ )}{(\ 0.88263\ )} = 24.538$

Reported Result 24.538

File ID:	5111906
Compound:	Tol-d8
Initials:	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5111901	BFB Tune Check	1476-65	50psig	2mL	1.00	11/19/07	0033	CB	
2	✓	02	ICAL Sp Level 3	1487-405	200-2.0ppbv	2.0mL			0156	CB	T140n12b
3	✓	03	ICAL Sp Level 5		200-50ppbv	50mL			0224	CB	Sp2lb CCVsp
4	✓	04	ICAL Sp Level 7		200ppbv	200mL			0257	CB	
5	✓	05	System Blank	34190	Humid	200mL			0411	CB	
6	✓	06	CCV-1	1576-89	200-50ppbv	50mL			0502	CB	
7	✓	07	LCS-1	1443-302A	100-50ppbv	100mL			0530	CB	
8	X	08	CCV-Sp	1487-404	200-50ppbv	50mL			0605	CB	
9	X	09	Lab Blank	34190	Humid	200mL			0929	CB	Cart Cart 8 Leg 8
10	✓	10	Lab Blank	↓	↓	↓	↓	↓	1051	CB	Cart Cart 14 Leg 4

11	✓	5111911	ICAL level 3	1443-361	200ppbv – 7ppbv	2mL	1.00	11/19/07	1224	CB	T140 n126	
12	✓	12	5		200ppbv – 50ppbv	50mL			1252	CB	sp19acc CCVsp	
13	✓	13	7		200ppbv	200mL			1324	CB		
14	✓	14	CCVsp (200ppbv)	1487-404	50ppbv	50mL			1443	CB	sp20acc	
15	✓	15	Lab Blank	34190	Humid	200mL			1555	CB	Cart Cart 5 Leg 1	
16	✗	V 16	Lab Blank						1703	SK	Cart Cart 8 Leg 8	
17	✓	5111911 17	07111024-01A	35146	6.0"Hg-5psi	200mL	1.68		1811	SS		
18	✓	18	02A				1.68		1843	SS		
19	✓	19	02A	14339	4.5"Hg		1.58		1915	SS		
20	✓	20	03A	15286	5.5"Hg		1.64		1947	SS		
21	✓	21	04A	1588	6.0"Hg		1.68		2019	SS		
22	✓	22	05A	14559	5.0"Hg		1.61		2051	SS		
23	✗	23	07110944-01A	94902	11.5"Hg-15psi	250mL	4.37		2122	SK	RR@200mL	
24	✓	24	02A	98568	7.5"Hg	200mL	2.69		2154	SS		
25	✓	25	03A	SC46	17.0"Hg	30mL	34		2221	SS		
26	✓	26	01A	94902	11.5"Hg-15psi	200mL	3.28		2312	SS	lo	
27	✓	27	07111123A-01A	25321	0.2psi-15psi	20mL	13.2	11/20/07	0000	SS		
28	✗	28	-02A	TO-1564	0.5"Hg-15psi	200mL	1.36		0033	SS		out of clock
29												
30												
31						11/20/07	18					
32												

Comments:

Signature

10/19/07
Date

@ Air Toxics Ltd.

MSD-5

Logbook #: 1586

0049

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.14
75	30.0 – 60.0% of mass 95	48.74
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	(0.65)[1]
174	Greater than 50.0% of mass 95	60.70
175	5.0 – 9.0% of mass 174	(7.02)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(98.44)[1]
177	5.0 – 9.0% of mass 176	(5.92)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 11/27/07

BFB Injection Time: 0856

BFB File ID: 5112701

Tekmar Purge Flow: 12.8 mL/min

Vacuum: 6.29×10^{-5} torr

IS/S Std.#:	1576-131	Exp. Date: 2-26-07
BCM	2957666	
1,4-DFB	1044114	
CB-d5	825609	

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

Verify 176/174 m/z Ratio: 412821 / 419379 x 100 = 98.44%

NOAH Cart #: 11 **File #:** 5112606

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 900442\ )}{(\ 1044114\ )} \times \frac{(\ 25.0\ )}{(\ 0.88263\ )} = 24.427$

File ID:	5112703
Compound:	toluene-d8
Initials:	CB

Reported Result 24.427

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5112701	BFB Tune Check	1476-65	50ng	2mL	1.00	11/27/07	0856	CB	
2	X	02	~~CCV~~ ICAL Level 5 (200ppbv)	1443-374	50ppbv	50mL			0921	CB	t14q,n12c Sp19b CCV
3	✓	03	CCV-1 (100ppbv)	1576-90A	↓	100mL			0949	CB	
4	✓	04	LCS-1 (200ppbv)	1576-111	↓	50mL			1017	CB	
5	✓	05	System Blank	12941	Humid	200mL			1108	CB	
6	✓	06	ICAL Level 3	1443-377	2ppbv	2mL			1136	CB	t14q,n12c Sp19b
7	✓	07	ICAL Level 7	1	200ppbv	200mL			1208	CB	↓ ↓
8	✓	08	Lab Blank	13673	Humid	200mL	↓		1310	CB	Cert Cart #14 Leg 2
9	X	09	0711308 - 01A	9485	6.0psi - 15psi	100mL	5.06		1409	CB	E-1,2-DCA <400 RL @ 35mL
10		↓ 10	0711207 - 01A	1575	17psi - 9.6psi	200mL	1.00	↓			

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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-13nov.b/5111306.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 13-NOV-2007 14:19
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-113
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-13nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 14:10 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 20:20 Cal File: 5111218.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	329578	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	255291			44.59- 104.59	77.46
8.032	8.059 (1.000)	49	712129			179.89- 239.89	216.07
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1265824	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	211923			0.00- 46.50	16.74
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	985864	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	591551			0.00- 30.00	60.00
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	494884	25.0865	25.086	80.00- 120.00	100.00
9.110	9.110 (1.130)	67	275885			0.00- 30.00	55.75
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1130598	25.2986	25.299	80.00- 120.00	100.00
12.677	12.704 (1.279)	70	113531			0.00- 30.00	10.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	729210			0.00- 30.00	64.50
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	573073	24.9127	24.913	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	940083			133.48- 193.48	164.04
16.575	16.575 (1.105)	176	557005			70.11- 130.11	97.20
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1390096	60.4280	60.428	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	935654			0.00- 30.00	67.31
2.280	2.280 (0.283)	39	946796			0.00- 30.00	68.11
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2194755	56.3185	56.318	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	706954			0.00- 30.00	32.21
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	2054336	57.7626	57.762	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	652867			1.61- 61.61	31.78
10 Chloromethane					CAS #: 74-87-3		
2.585	2.585 (0.321)	50	1613808	55.1495	55.149	80.00- 120.00	100.00
2.585	2.585 (0.321)	52	516287			0.00- 30.00	31.99
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1597055	56.7023	56.702	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	502731			0.00- 30.00	31.48
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1419547	59.0142	59.014	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1537627			0.00- 30.00	108.32
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1074167	59.0738	59.074	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	994884			64.51- 124.51	92.62
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	789236	55.0880	55.088	80.00- 120.00	100.00
3.386	3.386 (0.420)	49	223113			0.00- 30.00	28.27
3.386	3.386 (0.420)	66	232780			0.00- 30.00	29.49
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2404031	56.5807	56.581	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1562591			35.79- 95.79	65.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	617839	66.9348	66.935	80.00- 120.00	100.00
4.078	4.078 (0.506)	43	114972			0.00- 30.00	18.61
4.078	4.078 (0.506)	46	261005			0.00- 30.00	42.24
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1654470	62.6241	62.624	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1049272			32.44- 92.44	63.42
4.520	4.520 (0.561)	101	2296302			106.77- 166.77	138.79
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.548 (0.568)	61	2222648	63.5687	63.569	80.00- 120.00	100.00
4.575	4.548 (0.568)	96	1252491			25.42- 85.42	56.35
4.575	4.548 (0.568)	98	803129			5.54- 65.54	36.13
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	757570	57.9269	57.927	80.00- 120.00	100.00
4.714	4.714 (0.585)	43	2299307			0.00- 30.00	303.51
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2726787	58.5876	58.588	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	578881			0.00- 30.00	21.23
4.907	4.907 (0.609)	59	104526			0.00- 30.00	3.83
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	3464610	58.5126	58.513	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	568549	57.6695	57.670	80.00- 120.00	100.00
5.184	5.184 (0.643)	41	2168064			0.00- 30.00	381.33
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1841524	61.5949	61.595	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	1049480			26.07- 86.07	56.99
5.432	5.432 (0.674)	51	562086			0.00- 30.00	30.52
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1236681	54.9495	54.949	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	394002			2.42- 62.42	31.86
5.764	5.764 (0.715)	41	414743			0.00- 30.00	33.54
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	1255521	59.2914	59.291	80.00- 120.00	100.00
5.820	5.820 (0.722)	61	2028708			128.85- 188.85	161.58
5.820	5.820 (0.722)	98	786800			0.00- 30.00	62.67

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2564369	59.5522	59.552	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1789596			0.00- 30.00	69.79
6.151	6.151 (0.763)	86	368027			0.00- 30.00	14.35
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2312589	60.3159	60.316	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	689212			0.00- 59.87	29.80
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	544183	58.8106	58.810	80.00- 120.00	100.00
7.644	7.672 (0.949)	43	3022181			561.22- 621.22	555.36
7.644	7.672 (0.949)	57	217616			0.00- 30.00	39.99
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1682856	58.4566	58.456	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1133257			38.38- 98.38	67.34
7.617	7.617 (0.945)	98	720000			14.09- 74.09	42.78
70 Tetrahydrofuran					CAS #: 109-99-9		
8.032	8.031 (0.997)	42	1849537	53.6838	53.684	80.00- 120.00	100.00
8.032	8.031 (0.997)	71	479708			0.00- 55.17	25.94
8.032	8.031 (0.997)	72	529224			0.00- 30.00	28.61
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1933667	59.5243	59.524	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1237413			34.62- 94.62	63.99
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.419 (1.045)	97	1910343	58.8323	58.832	80.00- 120.00	100.00
8.419	8.419 (1.045)	99	1227419			33.24- 93.24	64.25
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	1515378	57.9311	57.931	80.00- 120.00	100.00
8.391	8.419 (1.041)	56	2394553			126.47- 186.47	158.02
8.391	8.419 (1.041)	41	1346348			58.16- 118.16	88.85
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	284978	58.6702	58.670	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3788471			0.00- 30.00	1329.39
6.649	6.649 (0.825)	42	277519			0.00- 30.00	97.38
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1606399	59.9179	59.918	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1673357			74.63- 134.63	104.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	6983920	59.1478	59.148	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2282176			0.00- 30.00	32.68
9.110	9.110 (1.130)	41	1794142			0.00- 30.00	25.69
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3120968	57.2023	57.202	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	720584			0.00- 30.00	23.09
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1483218	59.3403	59.340	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	462703			0.00- 30.00	31.20
90 Heptane					CAS #: 142-82-5		
9.497	9.469 (0.958)	100	360524	59.1602	59.160	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2886916			0.00- 30.00	800.76
9.469	9.469 (0.955)	71	1119378			0.00- 30.00	310.49
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1219788	55.1199	55.120	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1163570			63.34- 123.34	95.39
10.326	10.326 (1.042)	97	789093			34.39- 94.39	64.69
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	1198025	55.8359	55.836	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	834206			40.55- 100.55	69.63
10.824	10.824 (1.092)	41	818464			41.13- 101.13	68.32
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	665226	53.3833	53.383	80.00- 120.00	100.00
11.045	11.073 (1.114)	58	640313			62.89- 122.89	96.25
11.045	11.073 (1.114)	57	203792			0.00- 30.00	30.64
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1786670	57.7457	57.746	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1146088			33.46- 93.46	64.15
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1277421	58.2532	58.253	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	409273			2.37- 62.37	32.04
12.290	12.317 (1.240)	39	946560			44.56- 104.56	74.10
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1081560	60.5091	60.509	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	3066032			0.00- 30.00	283.48
12.594	12.594 (1.271)	85	360057			0.00- 30.00	33.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3221255	57.2310	57.231	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1904763			30.01- 90.01	59.13
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1274370	61.1838	61.184	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	409356			1.79- 61.79	32.12
13.340	13.368 (0.889)	39	886762			40.58- 100.58	69.58
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1067431	57.4509	57.451	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	656158			32.34- 92.34	61.47
13.644	13.644 (0.910)	83	866152			52.84- 112.84	81.14
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1235329	57.2010	57.201	80.00- 120.00	100.00
13.672	13.700 (0.912)	129	970748			50.58- 110.58	78.58
13.672	13.700 (0.912)	131	954865			48.33- 108.33	77.30
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1433868	55.3223	55.322	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2914899			176.65- 236.65	203.29
14.031	14.004 (0.935)	100	208571			0.00- 30.00	14.55
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1549883	59.6173	59.617	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1203853			0.00- 30.00	77.67
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1517022	55.7017	55.702	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1435652			64.70- 124.70	94.64
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2351199	55.4220	55.422	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	749667			1.03- 61.03	31.88
15.027	15.027 (1.002)	77	1452071			31.90- 91.90	61.76
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1300388	56.7372	56.737	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4332438			0.00- 30.00	333.17
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1634742	58.0715	58.071	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3490965			0.00- 30.00	213.55
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1551490	57.9579	57.958	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3470165			198.40- 258.40	223.67
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2405394	60.9453	60.945	80.00- 120.00	100.00
15.912	15.912 (1.061)	78	1281079			22.91- 82.91	53.26
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1372663	59.2484	59.248	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	717398			21.91- 81.91	52.26
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2257364	55.9161	55.916	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1428065			34.08- 94.08	63.26
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4826213	61.1039	61.104	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1403150			0.00- 59.53	29.07
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4304136	60.2885	60.288	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2019971			0.00- 30.00	46.93
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3520245	58.1256	58.126	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1622961			16.07- 76.07	46.10
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2295165	53.5312	53.531	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1480562			0.00- 30.00	64.51
17.764	17.764 (1.184)	111	941672			0.00- 30.00	41.03
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2801549	55.7527	55.753	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1748952			0.00- 30.00	62.43
17.847	17.847 (1.190)	111	1187423			0.00- 30.00	42.38
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4403553	69.5954	69.595	80.00- 120.00	100.00(R)
17.985	17.985 (1.199)	126	864941			0.00- 30.00	19.64
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.207	18.206 (1.214)	146	2361508	52.3671	52.367	80.00- 120.00	100.00
18.207	18.206 (1.214)	148	1497823			34.60- 94.60	63.43
18.207	18.206 (1.214)	111	963711			10.93- 70.93	40.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1572894	49.1385	49.138	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1493992			63.79- 123.79	94.98
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1120526	49.8270	49.827	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	722204			29.99- 89.99	64.45
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5736153	61.7056	61.706	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1198962			0.00- 30.00	20.90
16.824	16.824 (1.122)	105	195355			0.00- 30.00	3.41
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4762001	58.6699	58.670	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1255353			0.00- 30.00	26.36
16.326	16.326 (1.088)	51	683771			0.00- 30.00	14.36
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5933474	55.6559	55.656	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	733755			0.00- 30.00	12.37
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2280331	55.8901	55.890	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1478618			0.00- 30.00	64.84
3.414	3.414 (0.424)	72	138916			0.00- 30.00	6.09
11 Butane					CAS #: 106-97-8		
2.668	2.667 (0.331)	58	395221	56.8161	56.816	80.00- 120.00	100.00
2.668	2.667 (0.331)	43	2997680			0.00- 30.00	758.48
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	1837040	58.2953	58.295	80.00- 120.00	100.00
10.548	10.548 (1.064)	98	917043			0.00- 30.00	49.92
10.548	10.548 (1.064)	55	2039352			0.00- 30.00	111.01

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111306.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-13nov.b/t14qn12a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 13-NOV-2007
Calibration Time: 13:51
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	332179	199307	465051	329578	-0.78
92 1,4-Difluorobenze	1233793	740276	1727310	1265824	2.60
125 Chlorobenzene-d5	987199	592319	1382079	985864	-0.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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: 13-Nov-2007 14:27

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-13nov
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-13nov.b/t14qn12a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	56.318	112.64	70-130
9 Freon 114	50.000	57.762	115.53	70-130
10 Chloromethane	50.000	55.149	110.30	70-130
13 Vinyl Chloride	50.000	56.702	113.40	70-130
12 1,3-Butadiene	50.000	59.014	118.03	60-140
15 Bromomethane	50.000	59.074	118.15	70-130
19 Chloroethane	50.000	55.088	110.18	70-130
20 Trichlorofluoromet	50.000	56.581	113.16	70-130
26 Ethanol	50.000	66.935	133.87	60-140
30 Freon 113	50.000	62.624	125.25	70-130
31 1,1-Dichloroethene	50.000	63.569	127.14	70-130
35 Carbon Disulfide	50.000	58.513	117.03	60-140
32 Acetone	50.000	57.927	115.85	60-140
36 2-Propanol	50.000	58.588	117.18	60-140
38 3-Chloropropene	50.000	57.670	115.34	60-140
43 Methylene Chloride	50.000	61.595	123.19	70-130
46 MTBE	50.000	54.949	109.90	60-140
47 trans-1,2-Dichloro	50.000	59.291	118.58	60-140
51 Hexane	50.000	59.552	119.10	60-140
55 1,1-Dichloroethane	50.000	60.316	120.63	70-130
66 cis-1,2-Dichloroet	50.000	58.456	116.91	70-130
67 2-Butanone	50.000	58.810	117.62	60-140
70 Tetrahydrofuran	50.000	53.684	107.37	60-140
72 Chloroform	50.000	59.524	119.05	70-130
74 Cyclohexane	50.000	57.931	115.86	60-140
75 1,1,1-Trichloroeth	50.000	58.832	117.66	70-130
56 Vinyl Acetate	50.000	58.670	117.34	60-140
77 Carbon Tetrachlori	50.000	59.918	119.84	70-130
80 2,2,4-Trimethylpen	50.000	59.148	118.30	60-140
81 Benzene	50.000	57.202	114.40	70-130
85 1,2-Dichloroethane	50.000	59.340	118.68	70-130
90 Heptane	50.000	59.160	118.32	60-140
93 Trichloroethene	50.000	55.120	110.24	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	55.836	111.67	70-130
99 1,4-Dioxane	50.000	53.383	106.77	60-140
100 Bromodichlorometha	50.000	57.746	115.49	60-140
103 cis-1,3-Dichloropr	50.000	58.253	116.51	70-130
106 4-Methyl-2-pentano	50.000	60.509	121.02	60-140
108 Toluene	50.000	57.231	114.46	70-130
113 trans-1,3-Dichloro	50.000	61.184	122.37	70-130
114 1,1,2-Trichloroeth	50.000	57.451	114.90	70-130
116 Tetrachloroethene	50.000	57.201	114.40	70-130
119 2-Hexanone	50.000	55.322	110.64	60-140
120 Dibromochlorometha	50.000	59.617	119.23	60-140
122 1,2-Dibromoethane	50.000	55.702	111.40	70-130
126 Chlorobenzene	50.000	55.422	110.84	70-130
128 Ethyl Benzene	50.000	56.737	113.47	70-130
130 m,p-Xylene	50.000	58.071	116.14	70-130
132 o-Xylene	50.000	57.958	115.92	70-130
133 Styrene	50.000	60.945	121.89	70-130
134 Bromoform	50.000	59.248	118.50	60-140
136 Cumene	50.000	58.670	117.34	60-140
141 1,1,2,2-Tetrachlor	50.000	55.916	111.83	70-130
142 Propylbenzene	50.000	61.706	123.41	60-140
144 4-Ethyltoluene	50.000	61.104	122.21	60-140
147 1,3,5-Trimethylben	50.000	60.288	120.58	70-130
152 1,2,4-Trimethylben	50.000	58.126	116.25	70-130
155 1,3-Dichlorobenzen	50.000	53.531	107.06	70-130
156 1,4-Dichlorobenzen	50.000	55.753	111.51	70-130
157 alpha-Chlorotoluen	50.000	69.595	139.19*	70-130
159 1,2-Dichlorobenzen	50.000	52.367	104.73	70-130
163 1,2,4-Trichloroben	50.000	49.138	98.28	70-130
164 Hexachlorobutadien	50.000	49.827	99.65	70-130
6 Propylene	50.000	60.428	120.86	70-130
165 Naphthalene	50.000	55.656	111.31	60-140
11 Butane	50.000	56.816	113.63	70-130
17 Isopentane	50.000	55.890	111.78	70-130
94 Methyl Cyclohexane	50.000	58.295	116.59	70-130

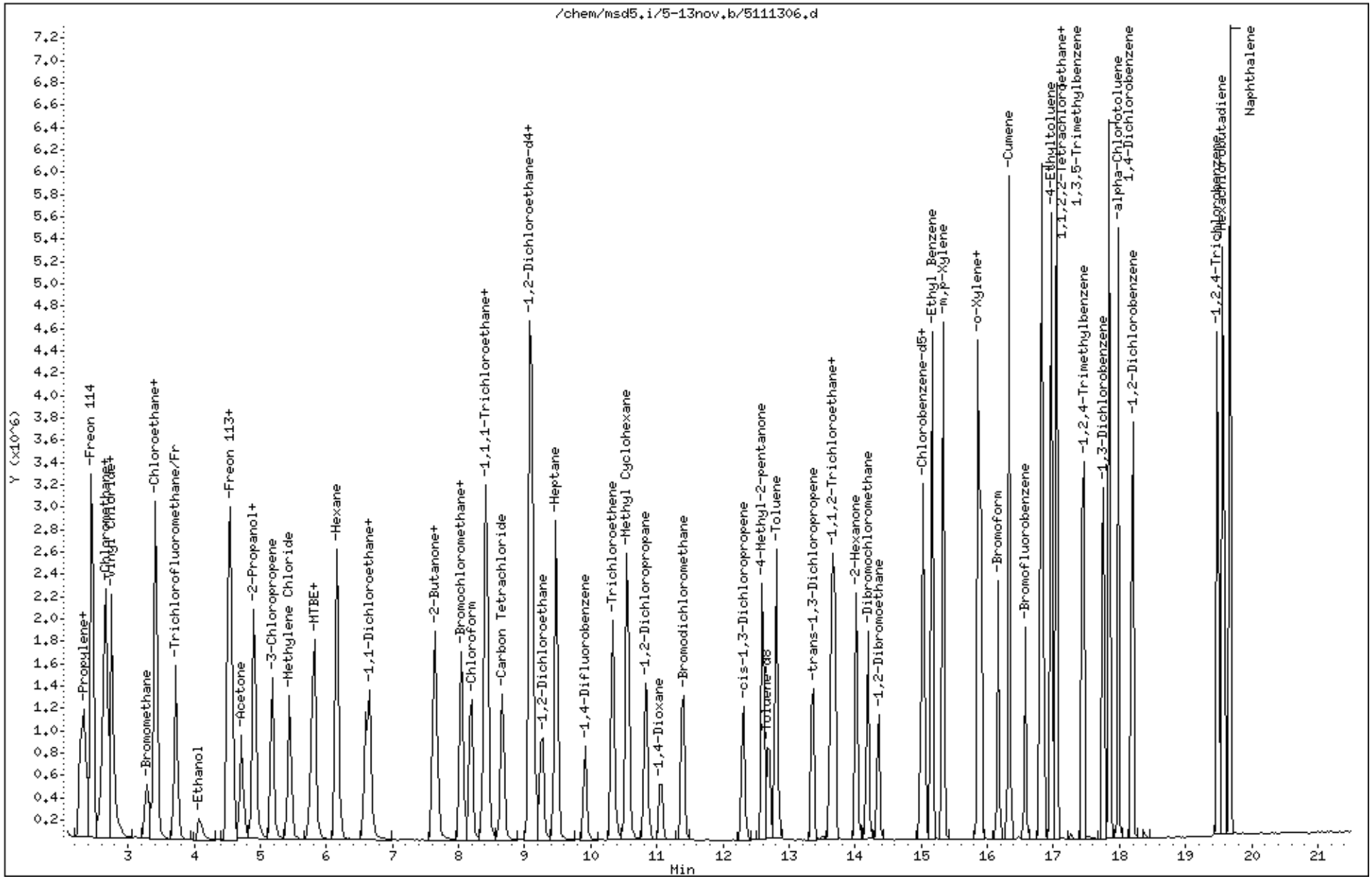
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.086	100.35	70-130
$ 107 Toluene-d8	25.000	25.299	101.19	70-130
$ 138 Bromofluorobenzene	25.000	24.913	99.65	70-130

0062

Data File: /chem/msd5.i/5-13nov.b/5111306.d
Date : 13-NOV-2007 14:19
Client ID: LCS-1
Sample Info: 50mL #1576-113

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111207.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 12-NOV-2007 13:22
Operator : cb Inst ID: msd5.i
Smp Info : 0.2mL #1576-89
Misc Info : 200ppbv -> 0.2ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 13:22 Cal File: 5111207.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	324865	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	255197			42.76- 102.76		78.55
8.031	8.031 (1.000)	49	723656			173.18- 233.18		222.76
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	1268973	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	206541			0.00- 46.42		16.28
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	967469	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	578503			0.00- 30.00		59.80
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.110	9.110 (1.130)	65	466593	25.0000	23.996	70.00- 130.00		100.00
9.110	9.110 (1.130)	67	236655			0.00- 30.00		50.72
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1063579	25.0000	23.740	70.00- 130.00		100.00
12.676	12.676 (1.279)	70	108141			0.00- 30.00		10.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	693173			0.00- 30.00	65.17
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	542906	25.0000	24.050	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	853089			128.71- 188.71	157.13
16.575	16.575 (1.105)	176	514238			68.26- 128.26	94.72
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	10780	0.20000	0.3366	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	7440			35.19- 95.19	69.02
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	19738	0.20000	0.3609	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	5003			0.00- 30.00	25.35
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	7880	0.20000	0.2034	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	5297			22.39- 82.39	67.22
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	21376	0.20000	0.2684	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5275			0.00- 30.00	24.68
16.326	16.326 (1.088)	51	3186			0.00- 30.00	14.90
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	12415	0.20000	0.1999	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	2022			0.00- 30.00	16.29
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	4383	0.20000	0.2446	70.00- 130.00	100.00(a)
12.593	12.593 (1.271)	43	10942			0.00- 30.00	249.65
12.621	12.621 (1.273)	85	1921			0.00- 30.00	43.83

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111207.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 0.2ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	324865	-8.55
92 1,4-Difluorobenze	1306915	784149	1829681	1268973	-2.90
125 Chlorobenzene-d5	1023463	614078	1432848	967469	-5.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-12nov.b/5111207.d

Date : 12-NOV-2007 13:22

Client ID: Level 1

Sample Info: 0.2mL #1576-89

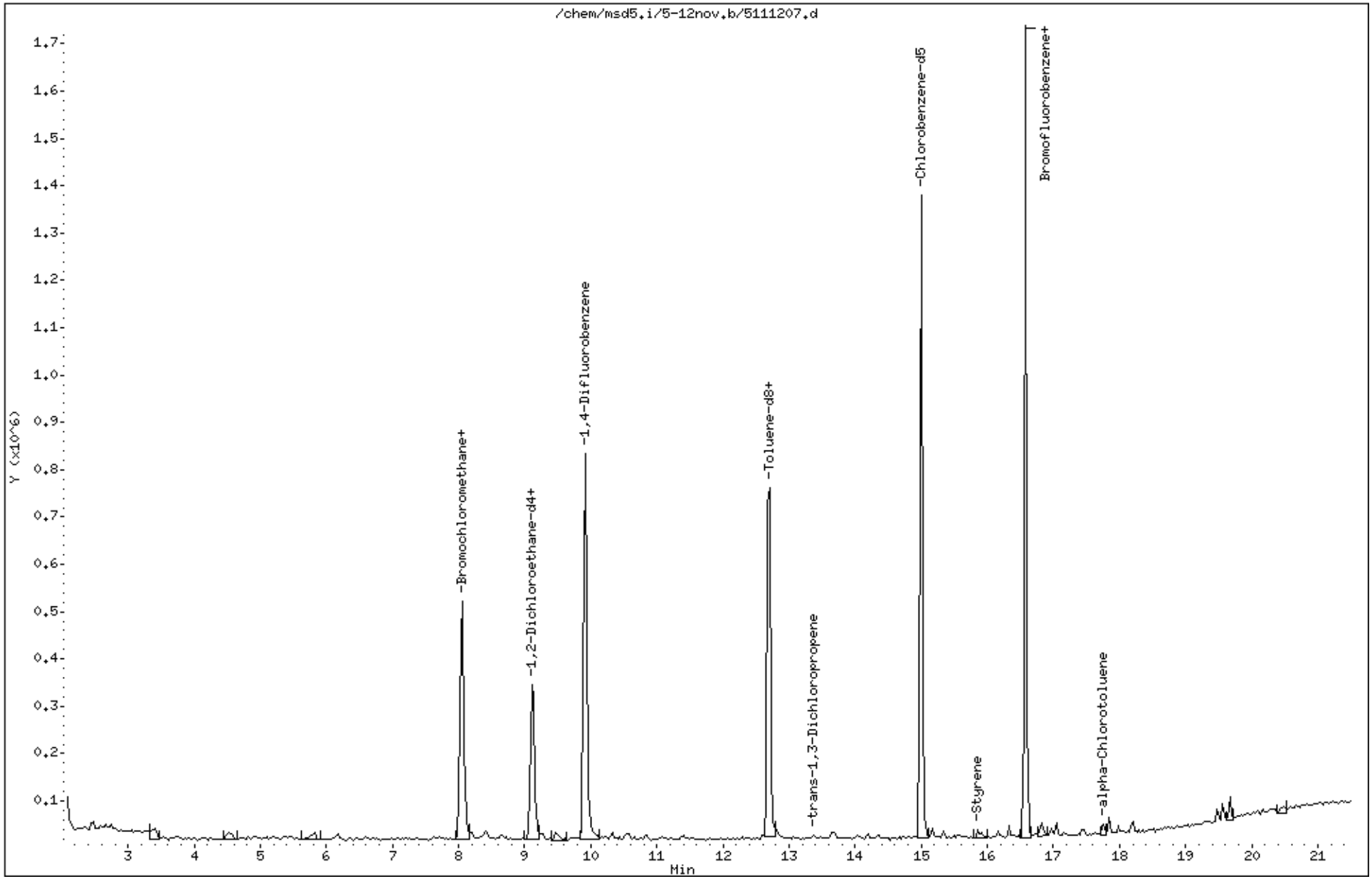
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

9900



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111232.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 13-NOV-2007 10:41
Operator : ct Inst ID: msd5.i
Smp Info : 0.5mL #1576-89
Misc Info : 0.5ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD
Cal Date : 13-NOV-2007 10:41 Cal File: 5111232.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	301055	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	241588			42.76- 102.76	80.25
8.059	8.059 (1.000)	49	676243			173.18- 233.18	224.62
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1093486	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	186745			0.00- 46.42	17.08
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	848011	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	511706			0.00- 30.00	60.34
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	422605	25.0000	23.452	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	209734			0.00- 30.00	49.63
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	926376	25.0000	23.996	70.00- 130.00	100.00
12.676	12.676 (1.279)	70	99400			0.00- 30.00	10.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	600305			0.00- 30.00	64.80
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	481562	25.0000	24.338	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	749901			128.71- 188.71	155.72
16.575	16.575 (1.105)	176	460138			68.26- 128.26	95.55
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	12903	0.50000	0.3625	70.00- 130.00	100.00(a)
2.308	2.308 (0.286)	87	4793			0.00- 30.00	37.15
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	14184	0.50000	0.4366	70.00- 130.00	100.00(a)
2.446	2.446 (0.304)	137	5692			2.29- 62.29	40.13
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	11685	0.50000	0.4542	70.00- 130.00	100.00(a)
2.750	2.750 (0.341)	64	3659			0.00- 30.00	31.31
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	8235	0.50000	0.3748	70.00- 130.00	100.00(a)
2.750	2.750 (0.341)	39	10174			0.00- 30.00	123.55
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	7098	0.50000	0.4273	70.00- 130.00	100.00(a)
3.276	3.276 (0.406)	96	6564			65.07- 125.07	92.48
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	6821	0.50000	0.5212	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	1821			0.00- 30.00	26.70
3.414	3.414 (0.424)	66	2050			0.00- 30.00	30.05
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	17314	0.50000	0.4461	70.00- 130.00	100.00(a)
3.718	3.718 (0.461)	103	10722			34.56- 94.56	61.93
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	11540	0.50000	0.4782	70.00- 130.00	100.00(a)
4.520	4.520 (0.561)	153	5960			33.43- 93.43	51.65
4.520	4.520 (0.561)	101	14065			108.48- 168.48	121.88
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.547	4.547 (0.564)	61	13348	0.50000	0.4179	70.00- 130.00	100.00(a)
4.547	4.547 (0.564)	96	6903			27.13- 87.13	51.72
4.575	4.575 (0.568)	98	6347			5.60- 65.60	47.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	20015	0.50000	0.3700	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	13185	0.50000	0.4828	70.00- 130.00	100.00(a)
5.432	5.432 (0.674)	84	7588			29.81- 89.81	57.55
5.432	5.432 (0.674)	51	5074			0.00- 30.00	38.48
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	13666	0.50000	0.6648	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	4935			1.68- 61.68	36.11
5.764	5.764 (0.715)	41	6421			0.00- 30.00	46.99
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	6986	0.50000	0.3612	70.00- 130.00	100.00(a)
5.819	5.819 (0.722)	61	14051			133.65- 193.65	201.13
5.819	5.819 (0.722)	98	5355			0.00- 30.00	76.65
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	14853	0.50000	0.3776	70.00- 130.00	100.00(a)
6.151	6.151 (0.763)	43	13512			0.00- 30.00	90.97
6.179	6.179 (0.767)	86	3050			0.00- 30.00	20.53
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	12666	0.50000	0.3616	70.00- 130.00	100.00(a)
6.594	6.594 (0.818)	65	5023			0.52- 60.52	39.66
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.955)	72	3857	0.50000	0.4563	70.00- 130.00	100.00(a)
7.700	7.700 (0.955)	43	13510			536.33- 596.33	350.27
7.700	7.700 (0.955)	57	1285			0.00- 30.00	33.32
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	10821	0.50000	0.4115	70.00- 130.00	100.00(a)
7.617	7.617 (0.945)	96	7971			37.56- 97.56	73.66
7.617	7.617 (0.945)	98	4824			14.52- 74.52	44.58
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	17438	0.50000	0.5541	70.00- 130.00	100.00
8.087	8.087 (1.003)	71	4573			0.00- 55.74	26.22
8.059	8.059 (1.000)	72	6854			0.00- 30.00	39.30
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	11181	0.50000	0.3768	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	6949			35.19- 95.19	62.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	12913	0.50000	0.4354	70.00- 130.00	100.00(a)
8.446	8.446 (1.048)	99	6490			33.02- 93.02	50.26
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	8955	0.50000	0.3748	70.00- 130.00	100.00(a)
8.391	8.391 (1.041)	56	15410			126.11- 186.11	172.08
8.391	8.391 (1.041)	41	11390			55.82- 115.82	127.19
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	8396	0.50000	0.3428	70.00- 130.00	100.00(a)
8.667	8.667 (1.075)	117	10748			75.98- 135.98	128.01
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	38941	0.50000	0.3610	70.00- 130.00	100.00(a)
9.082	9.082 (1.127)	56	14187			0.00- 30.00	36.43
9.082	9.082 (1.127)	41	12183			0.00- 30.00	31.29
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	18964	0.50000	0.4024	70.00- 130.00	100.00(a)
9.082	9.082 (0.916)	77	4842			0.00- 30.00	25.53
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	8877	0.50000	0.4111	70.00- 130.00	100.00(a)
9.276	9.276 (0.936)	64	2677			0.00- 30.00	30.16
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	1775	0.50000	0.3372	70.00- 130.00	100.00(a)
9.469	9.469 (0.955)	43	15642			0.00- 30.00	881.24
9.469	9.469 (0.955)	71	5645			0.00- 30.00	318.03
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	9325	0.50000	0.4878	70.00- 130.00	100.00(a)
10.326	10.326 (1.042)	130	7696			64.49- 124.49	82.53
10.354	10.354 (1.045)	97	5987			34.72- 94.72	64.20
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	8470	0.50000	0.4570	70.00- 130.00	100.00(a)
10.852	10.852 (1.095)	62	5511			39.05- 99.05	65.06
10.852	10.852 (1.095)	41	5947			36.65- 96.65	70.21
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	10836	0.50000	0.4054	70.00- 130.00	100.00(a)
11.405	11.405 (1.151)	85	7777			34.72- 94.72	71.77
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	6503	0.50000	0.3433	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.317	12.317 (1.243)	77	1501			0.28- 60.28	23.08
12.317	12.317 (1.243)	39	6582			43.30- 103.30	101.21
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	3651	0.50000	0.2364	70.00- 130.00	100.00(a)
12.593	12.593 (1.271)	43	14600			0.00- 30.00	399.89
12.593	12.593 (1.271)	85	1498			0.00- 30.00	41.03
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	23962	0.50000	0.4928	70.00- 130.00	100.00(a)
12.815	12.815 (1.293)	92	10275			29.65- 89.65	42.88
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	3103	0.50000	0.1732	70.00- 130.00	100.00(a)
13.340	13.340 (0.889)	77	2407			1.96- 61.96	77.57
13.368	13.368 (0.891)	39	3144			38.82- 98.82	101.32
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	6718	0.50000	0.4204	70.00- 130.00	100.00(a)
13.644	13.644 (0.910)	99	4190			33.63- 93.63	62.37
13.644	13.644 (0.910)	83	6314			55.73- 115.73	93.99
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	7651	0.50000	0.4119	70.00- 130.00	100.00(a)
13.672	13.672 (0.912)	129	7468			50.24- 110.24	97.61
13.699	13.699 (0.913)	131	6779			48.42- 108.42	88.60
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	8233	0.50000	0.3682	70.00- 130.00	100.00(a)
14.197	14.197 (0.947)	127	6244			0.00- 30.00	75.84
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	8908	0.50000	0.3802	70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	9791			63.74- 123.74	109.91
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	15065	0.50000	0.4128	70.00- 130.00	100.00(a)
15.054	15.054 (1.004)	114	4670			1.82- 61.82	31.00
14.999	14.999 (1.000)	77	17996			31.79- 91.79	119.46
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	9063	0.50000	0.4597	70.00- 130.00	100.00(a)
15.165	15.165 (1.011)	91	23494			0.00- 30.00	259.23
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	9166	0.50000	0.3785	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	18014			0.00- 30.00	196.53
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	9567	0.50000	0.4155	70.00- 130.00	100.00(a)
15.856	15.856 (1.057)	91	16804			195.49- 255.49	175.65
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	10002	0.50000	0.2946	70.00- 130.00	100.00(a)
15.911	15.911 (1.061)	78	6410			22.39- 82.39	64.09
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	8207	0.50000	0.4118	70.00- 130.00	100.00(a)
16.160	16.160 (1.077)	171	3326			21.21- 81.21	40.53
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	13004	0.50000	0.3745	70.00- 130.00	100.00(a)
16.796	16.796 (1.120)	85	8980			33.63- 93.63	69.06
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	21447	0.50000	0.3157	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	120	8273			0.00- 59.46	38.57
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	21353	0.50000	0.3477	70.00- 130.00	100.00(a)
17.045	17.045 (1.136)	120	12086			0.00- 30.00	56.60
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	17059	0.50000	0.3275	70.00- 130.00	100.00(a)
17.460	17.460 (1.164)	120	9403			16.11- 76.11	55.12
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	16921	0.50000	0.4588	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	148	11100			0.00- 30.00	65.60
17.764	17.764 (1.184)	111	8925			0.00- 30.00	52.75
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	16084	0.50000	0.3721	70.00- 130.00	100.00(a)
17.847	17.847 (1.190)	148	12317			0.00- 30.00	76.58
17.847	17.847 (1.190)	111	6845			0.00- 30.00	42.56
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	13937	0.50000	0.2561	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	2588			0.00- 30.00	18.57
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	17160	0.50000	0.4424	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.206	18.206 (1.214)	148	11130			32.64- 92.64	64.86
18.206	18.206 (1.214)	111	5360			11.53- 71.53	31.24
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	25838	0.50000	0.3231	70.00- 130.00	100.00(a)
16.824	16.824 (1.122)	120	6184			0.00- 30.00	23.93
16.851	16.851 (1.123)	105	1630			0.00- 30.00	6.31
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	23154	0.50000	0.3316	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	7767			0.00- 30.00	33.54
16.326	16.326 (1.088)	51	4373			0.00- 30.00	18.89
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	10704	0.50000	0.3932	70.00- 130.00	100.00(a)
10.547	10.547 (1.064)	98	6673			0.00- 30.00	62.34
10.547	10.547 (1.064)	55	11258			0.00- 30.00	105.18

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111232.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 0.5ppbv (200ppbv)

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	301055	-15.25
92 1,4-Difluorobenze	1306915	784149	1829681	1093486	-16.33
125 Chlorobenzene-d5	1023463	614078	1432848	848011	-17.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

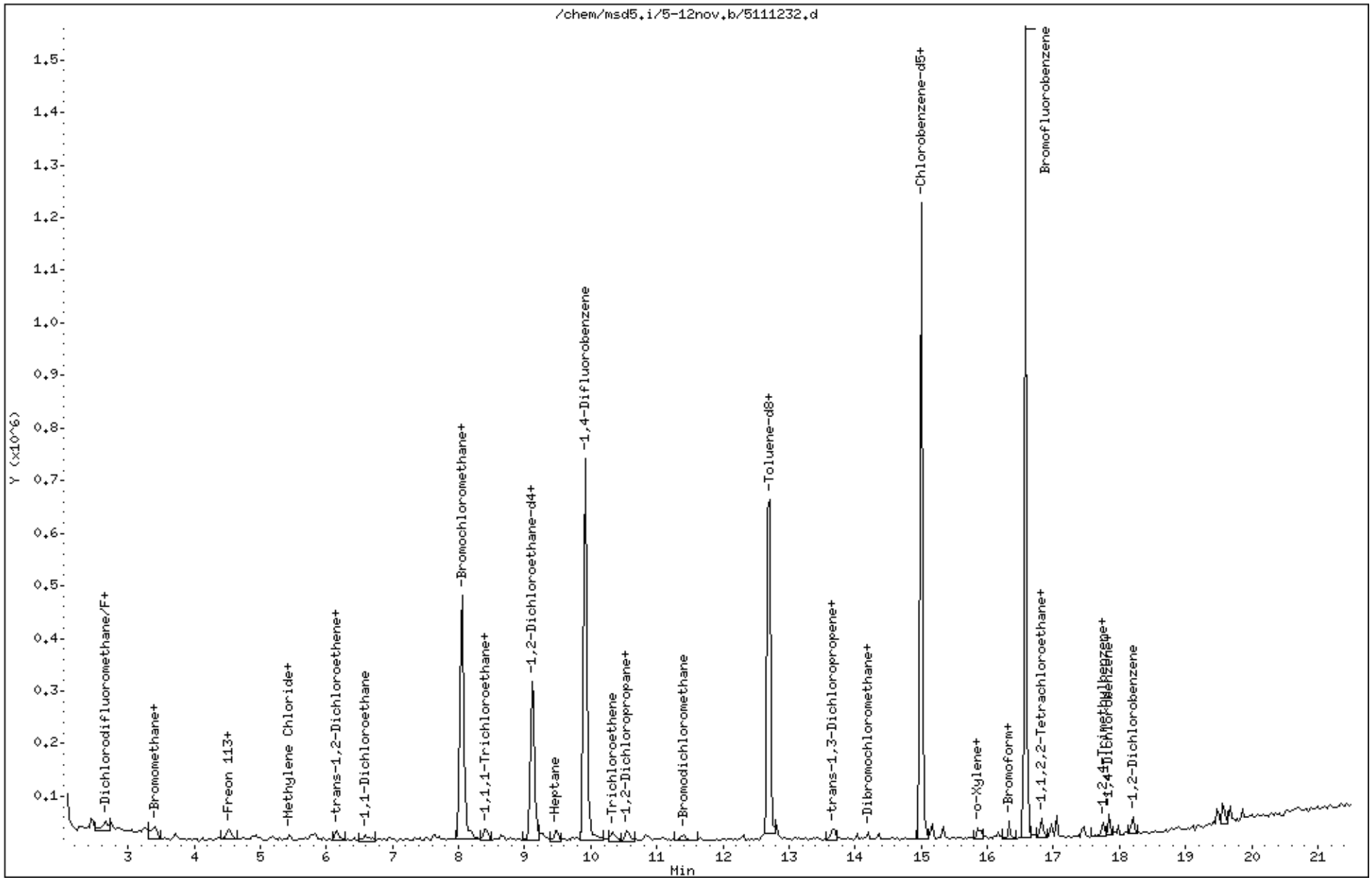
0075

Data File: /chem/msd5.i/5-12nov.b/5111232.d
Date : 13-NOV-2007 10:41
Client ID: Level 2
Sample Info: 0.5mL #1576-89

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27nov.b/5112706.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 27-NOV-2007 11:36
Operator : cb Inst ID: msd5.i
Smp Info : 2mL #1443-374
Misc Info : 200ppbv --> 2ppbv
Comment :
Method : /chem/msd5.i/5-27nov.b/t14qn12c.m
Meth Date : 27-Nov-2007 15:31 cbond Quant Type: ISTD
Cal Date : 27-NOV-2007 11:36 Cal File: 5112706.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	270347	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	205832			47.29- 107.29		76.14
8.059	8.059 (1.000)	49	577575			183.28- 243.28		213.64
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	930111	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	148339			0.00- 46.71		15.95
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	772234	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	425390			0.00- 30.00		55.09
7 Isobutane					CAS #: 75-28-5			
2.501	2.501 (0.310)	43	81360	2.00000	1.641	70.00- 130.00		100.00(a)
2.501	2.501 (0.310)	42	25417			0.00- 30.00		31.24
2.474	2.474 (0.307)	58	1783			0.00- 30.00		2.19
18 Pentane					CAS #: 109-66-0			
3.801	3.801 (0.472)	43	78345	2.00000	1.547	70.00- 130.00		100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.801	3.801 (0.472)	57	12726			0.00- 30.00	16.24
3.828	3.828 (0.475)	72	6543			0.00- 30.00	8.35
25 Acrolein					CAS #: 107-02-8		
4.520	4.520 (0.561)	55	7290	2.00000	1.155	70.00- 130.00	100.00(a)
4.520	4.520 (0.561)	56	10702			0.00- 30.00	146.80
39 Acrylonitrile					CAS #: 107-13-1		
5.957	5.957 (0.739)	53	28491	2.00000	1.430	70.00- 130.00	100.00(a)
5.957	5.957 (0.739)	52	17172			0.00- 30.00	60.27
42 1-Pentene					CAS #: 109-67-1		
3.718	3.718 (0.461)	55	43303	2.00000	1.584	70.00- 130.00	100.00(Ta)
3.746	3.746 (0.465)	42	56497			0.00- 30.00	130.47
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
44 Ethyl Ether					CAS #: 60-29-7		
4.188	4.188 (0.520)	74	15996	2.00000	1.547	70.00- 130.00	100.00(Ta)
4.160	4.160 (0.516)	59	26794			0.00- 30.00	167.50
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
53 Iodomethane					CAS #: 74-88-4		
4.851	4.851 (0.602)	142	49239	2.00000	1.373	70.00- 130.00	100.00(a)
4.851	4.851 (0.602)	127	15294			0.00- 30.00	31.06
58 1-Hexene					CAS #: 592-41-6		
6.040	6.040 (0.750)	55	21859	2.00000	1.380	70.00- 130.00	100.00(a)
6.040	6.040 (0.750)	41	37770			0.00- 30.00	172.79
6.040	6.040 (0.750)	84	8721			0.00- 30.00	39.90
62 Methyl Acrylate					CAS #: 96-33-3		
7.838	7.838 (0.973)	55	35717	2.00000	1.124	70.00- 130.00	100.00(a)
7.810	7.810 (0.969)	85	4774			0.00- 30.00	13.37
7.810	7.810 (0.969)	58	3247			0.00- 30.00	9.09
86 2-Pentanone					CAS #: 107-87-9		
10.824	10.824 (1.092)	43	53061	2.00000	1.145	70.00- 130.00	100.00(a)
10.796	10.796 (1.089)	58	4329			0.00- 30.00	8.16
10.824	10.824 (1.092)	86	8341			0.00- 30.00	15.72
88 Ethyl Acrylate					CAS #: 140-88-5		
10.630	10.630 (1.073)	55	43900	2.00000	1.229	70.00- 130.00	100.00(a)
10.630	10.630 (1.073)	99	1675			0.00- 30.00	3.82
10.630	10.630 (1.073)	45	4505			0.00- 30.00	10.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
95 Dibromomethane					CAS #: 74-95-3		
11.073	11.073 (1.117)	174	18435	2.00000	1.587	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	93	20667			0.00- 30.00	112.11
11.073	11.073 (1.117)	95	16529			0.00- 30.00	89.66
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.117)	41	30781	2.00000	1.237	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	69	14833			0.00- 30.00	48.19
11.073	11.073 (1.117)	100	5367			0.00- 30.00	17.44
112 Alphamethylstyrene					CAS #: 98-83-9		
17.294	17.294 (1.153)	118	22987	2.00000	1.031	70.00- 130.00	100.00(a)
17.294	17.294 (1.153)	103	13393			0.00- 30.00	58.26
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.708	17.708 (1.181)	93	38779	2.00000	1.474	70.00- 130.00	100.00(a)
17.708	17.708 (1.181)	95	13596			0.00- 30.00	35.06
17.708	17.708 (1.181)	63	36316			0.00- 30.00	93.65
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	53552	2.00000	1.237	70.00- 130.00	100.00(a)
15.331	15.331 (1.022)	57	41083			0.00- 30.00	76.72
15.331	15.331 (1.022)	85	11561			0.00- 30.00	21.59

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5112706.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-27nov.b/t14qn12c.m
Misc Info: 200ppbv --> 2ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 09:21
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	351932	211159	492705	270347	-23.18
92 1,4-Difluorobenze	1207474	724484	1690464	930111	-22.97
125 Chlorobenzene-d5	945809	567485	1324133	772234	-18.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-27nov.b/5112706.d

Date : 27-NOV-2007 11:36

Client ID: Level 3

Sample Info: 2mL #1443-374

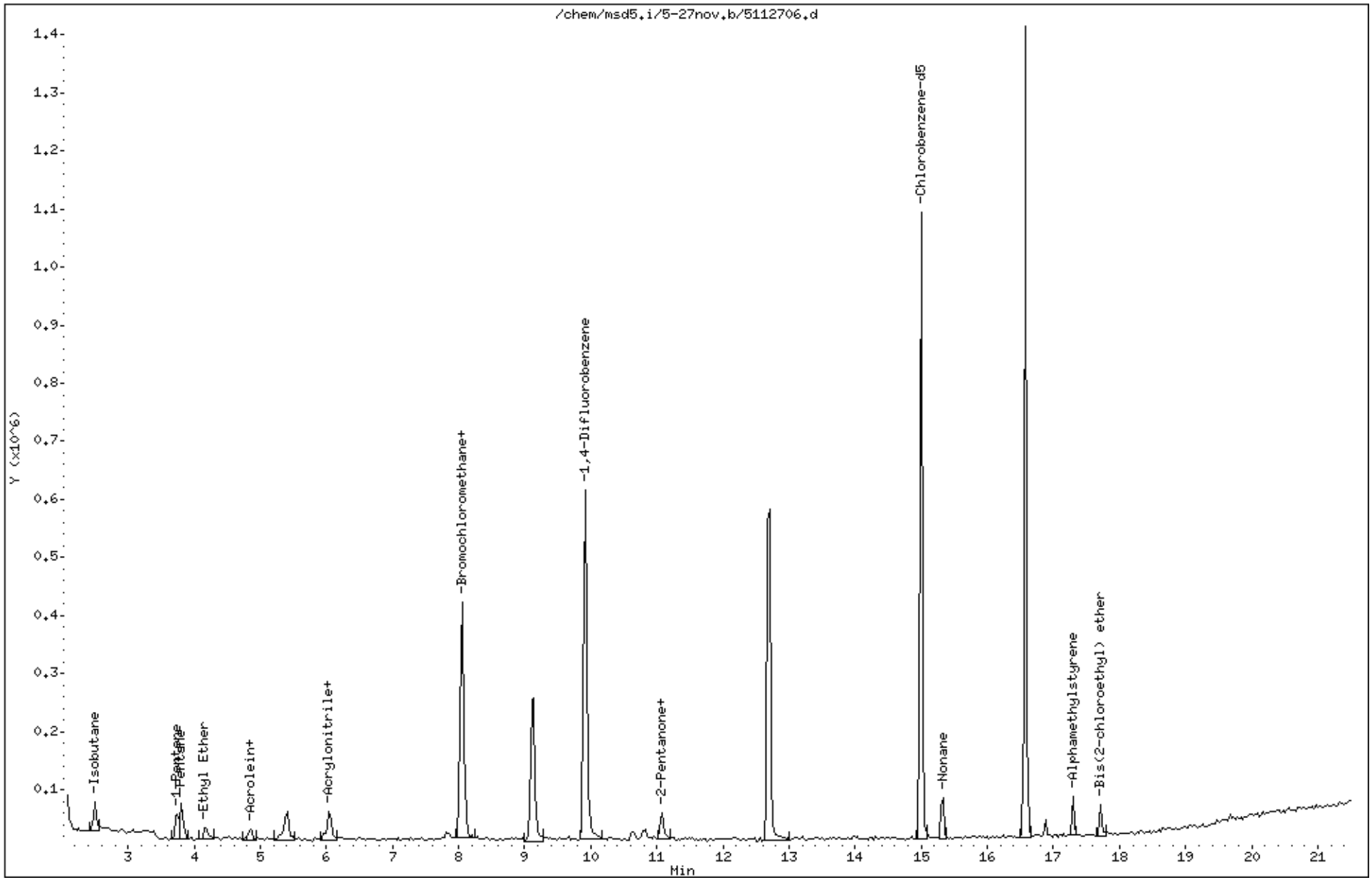
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0080



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-19nov.b/5111902.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 19-NOV-2007 01:56
Operator : sjr Inst ID: msd5.i
Smp Info : 2.0mL #1487-405
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-19nov.b/t14qn12b.m
Meth Date : 20-Nov-2007 15:39 ctaylor Quant Type: ISTD
Cal Date : 19-NOV-2007 01:56 Cal File: 5111902.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	409441	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	329261			47.38- 107.38		80.42
8.059	8.059 (1.000)	49	912391			197.25- 257.25		222.84
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1547444	25.0000		70.00- 130.00		100.00
9.939	9.939 (1.000)	88	252732			0.00- 47.51		16.33
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1175868	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	671079			0.00- 30.00		57.07
1 Freon134a						CAS #: 811-97-2		
2.253	2.253 (0.280)	83	30938	2.00000	2.000	70.00- 130.00		100.00
2.253	2.253 (0.280)	69	158131			0.00- 30.00		511.12
3 Freon 152a						CAS #: 75-37-6		
2.336	2.336 (0.290)	65	24878	2.00000	2.000	70.00- 130.00		100.00
2.391	2.391 (0.297)	51	151737			0.00- 30.00		609.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.391	2.391 (0.297)	67	9665	2.00000	2.000	70.00- 130.00	100.00
2.391	2.391 (0.297)	51	149706			0.00- 30.00	1548.95
5 Freon142b					CAS #: 75-68-3		
2.612	2.612 (0.324)	65	41999	2.00000	2.000	70.00- 130.00	100.00
2.612	2.612 (0.324)	45	14040			0.00- 30.00	33.43
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.773	3.773 (0.468)	67	64440	2.00000	2.000	70.00- 130.00	100.00
3.773	3.773 (0.468)	69	21205			0.00- 30.00	32.91
3.746	3.746 (0.465)	35	1461			0.00- 30.00	2.27
22 Freon123a					CAS #: 354-23-4		
4.327	4.327 (0.537)	117	38216	2.00000	2.000	70.00- 130.00	100.00
4.299	4.299 (0.533)	67	50149			0.00- 30.00	131.23
24 Freon123					CAS #: 306-83-2		
4.437	4.437 (0.551)	83	64366	2.00000	2.000	70.00- 130.00	100.00
4.437	4.437 (0.551)	133	10230			0.00- 30.00	15.89
4.437	4.437 (0.551)	85	50869			0.00- 30.00	79.03
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	55304	2.00000	2.000	70.00- 130.00	100.00
5.598	5.598 (0.695)	41	21376			0.00- 30.00	38.65
5.598	5.598 (0.695)	57	5625			0.00- 30.00	10.17
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	161462	2.00000	2.000	70.00- 130.00	100.00
6.621	6.621 (0.822)	87	28999			0.00- 30.00	17.96
6.594	6.594 (0.818)	59	15860			0.00- 30.00	9.82
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.230	7.230 (0.897)	59	58157	2.00000	2.000	70.00- 130.00	100.00
7.230	7.230 (0.897)	87	18728			0.00- 30.00	32.20
7.230	7.230 (0.897)	41	14279			0.00- 30.00	24.55
61 Ethyl Acetate					CAS #: 141-78-6		
7.727	7.727 (0.959)	70	7135	2.00000	2.000	70.00- 130.00	100.00
7.755	7.755 (0.962)	43	63008			0.00- 30.00	883.08
7.727	7.727 (0.959)	61	7037			0.00- 30.00	98.63
64 1-Propanol					CAS #: 71-23-8		
6.870	6.870 (0.852)	42	4160	2.00000	2.000	70.00- 130.00	100.00
6.843	6.843 (0.849)	59	5134			0.00- 30.00	123.41
6.870	6.870 (0.852)	41	5256			0.00- 30.00	126.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
76 Isobutanol					CAS #: 78-83-1		
9.110	9.110 (0.917)	43	33035	2.00000	2.000	70.00- 130.00	100.00
9.082	9.082 (0.914)	41	22733			0.00- 30.00	68.81
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.276	9.276 (1.151)	73	51150	2.00000	2.000	70.00- 130.00	100.00
9.303	9.303 (1.154)	87	15256			0.00- 30.00	29.83
9.276	9.276 (1.151)	55	24944			0.00- 30.00	48.77
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.428)	56	31561	2.00000	2.000	70.00- 130.00	100.00
14.197	14.197 (1.428)	73	9197			0.00- 30.00	29.14
14.197	14.197 (1.428)	43	79367			0.00- 30.00	251.47
131 2-Heptanone					CAS #: 110-43-0		
16.105	16.105 (1.074)	58	49073	2.00000	2.000	70.00- 130.00	100.00
16.105	16.105 (1.074)	43	74991			0.00- 30.00	152.82
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	50207	2.00000	2.000	70.00- 130.00	100.00
16.520	16.520 (1.101)	98	16347			0.00- 30.00	32.56
16.520	16.520 (1.101)	42	35309			0.00- 30.00	70.33
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	138864	2.00000	2.000	70.00- 130.00	100.00
17.211	17.211 (1.147)	85	79860			30.87- 90.87	57.51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111902.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd5.i/5-19nov.b/t14qn12b.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 19-NOV-2007
Calibration Time: 02:24
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	320182	192109	448255	409441	27.88
92 1,4-Difluorobenze	1222930	733758	1712102	1547444	26.54
125 Chlorobenzene-d5	969063	581438	1356688	1175868	21.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

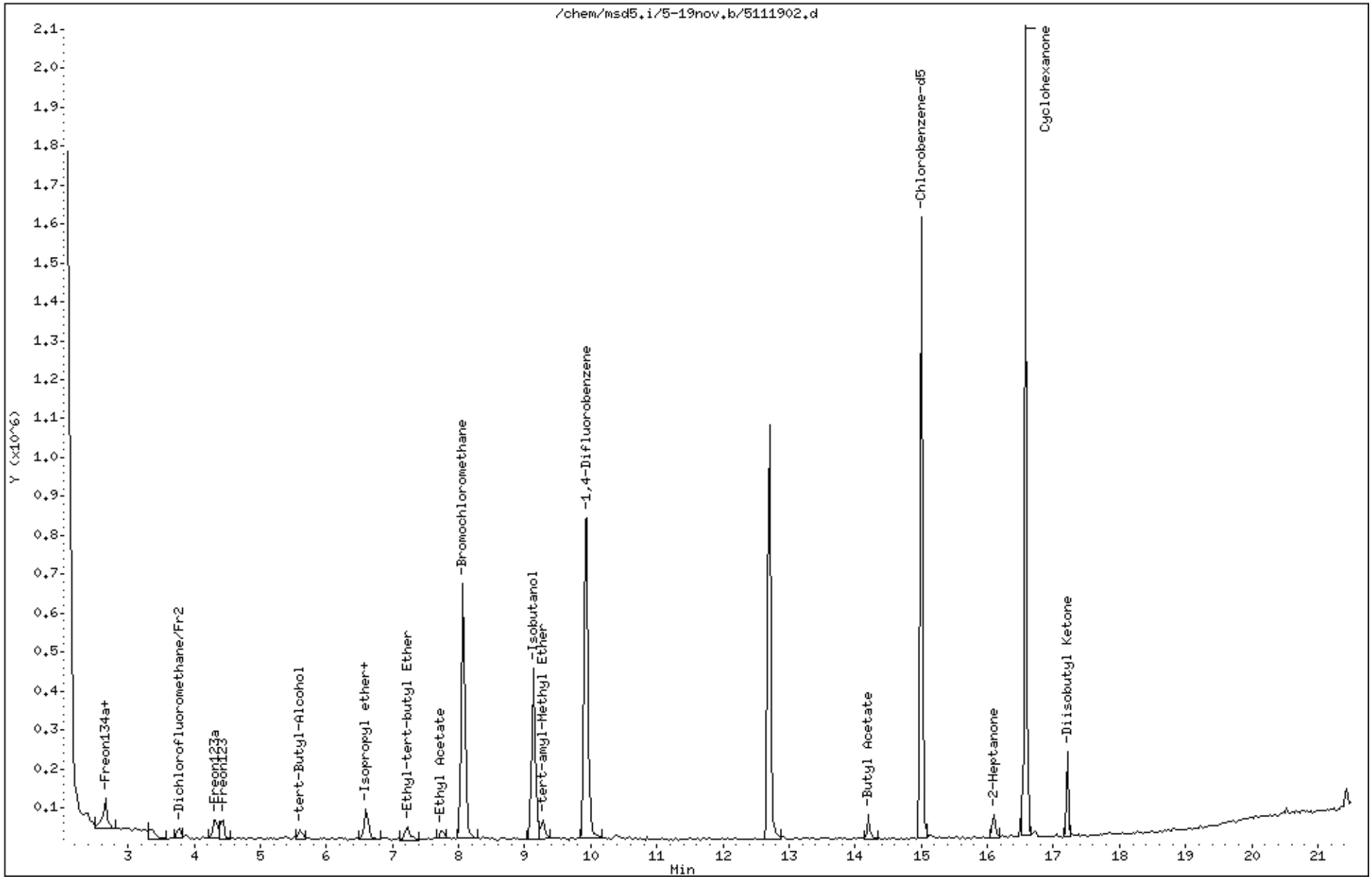
0085

Data File: /chem/msd5.i/5-19nov.b/5111902.d
Date : 19-NOV-2007 01:56
Client ID: Level 3
Sample Info: 2.0mL #1487-405

Instrument: msd5.i

Operator: sjr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111216.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 12-NOV-2007 19:20
Operator : cb Inst ID: msd5.i
Smp Info : 2.0mL #1487-404
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:24 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 19:20 Cal File: 5111216.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp20a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	333304	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	268129			47.79- 107.79		80.45
8.059	8.059 (1.000)	49	749174			186.23- 246.23		224.77
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1294039	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	205628			0.00- 46.01		15.89
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	982975	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	582405			0.00- 30.00		59.25
33 Methyl Acetate					CAS #: 79-20-9			
5.239	5.239 (0.650)	43	72395	2.00000	1.469	70.00- 130.00		100.00(a)
5.239	5.239 (0.650)	74	13849			0.00- 30.00		19.13
5.239	5.239 (0.650)	59	4835			0.00- 30.00		6.68
52 Chloroprene					CAS #: 126-99-8			
6.677	6.677 (0.828)	53	55634	2.00000	1.410	70.00- 130.00		100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 Chloroprene (continued)							
6.704	6.704 (0.832)	88	24677			12.60- 72.60	44.36
6.677	6.677 (0.828)	50	14078			0.00- 52.95	25.30
59 1,3-Dichloropropane					CAS #: 142-28-9		
13.893	13.893 (1.402)	76	37183	2.00000	1.506	70.00- 130.00	100.00(a)
13.893	13.893 (1.402)	41	36632			68.80- 128.80	98.52
13.893	13.893 (1.402)	78	14474			0.00- 30.00	38.93
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.561	7.561 (0.938)	77	33830	2.00000	1.467	70.00- 130.00	100.00(a)
7.561	7.561 (0.938)	79	10723			2.86- 62.86	31.70
7.561	7.561 (0.938)	97	7959			0.00- 30.00	23.53
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.723	8.723 (1.082)	110	13431	2.00000	1.530	70.00- 130.00	100.00(a)
8.723	8.723 (1.082)	75	38422			0.00- 30.00	286.07
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.193	15.193 (1.013)	131	26054	2.00000	1.483	70.00- 130.00	100.00(a)
15.165	15.165 (1.011)	117	19617			0.00- 30.00	75.29
15.165	15.165 (1.011)	95	13111			0.00- 30.00	50.32
137 Bromobenzene					CAS #: 108-86-1		
16.741	16.741 (1.116)	156	34417	2.00000	1.583	70.00- 130.00	100.00(a)
16.741	16.741 (1.116)	77	63144			151.57- 211.57	183.47
16.741	16.741 (1.116)	158	36862			0.00- 30.00	107.10
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.852	16.852 (1.123)	110	19269	2.00000	1.615	70.00- 130.00	100.00(a)
16.852	16.852 (1.123)	61	17041			0.00- 30.00	88.44
16.852	16.852 (1.123)	112	14352			0.00- 30.00	74.48
140 2-Chlorotoluene					CAS #: 95-49-8		
16.962	16.962 (1.131)	126	25746	2.00000	1.413	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	91	89078			287.64- 347.64	345.99
16.962	16.962 (1.131)	65	10756			0.00- 30.00	41.78
143 4-Chlorotoluene					CAS #: 106-43-4		
17.100	17.100 (1.140)	126	28148	2.00000	1.505	70.00- 130.00	100.00(a)
17.100	17.100 (1.140)	91	88953			287.83- 347.83	316.02
17.100	17.100 (1.140)	63	13716			0.00- 30.00	48.73
149 tert-Butylbenzene					CAS #: 98-06-6		
17.377	17.377 (1.159)	119	115990	2.00000	1.533	70.00- 130.00	100.00(a)
17.377	17.377 (1.159)	134	24294			0.00- 53.69	20.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
149 tert-Butylbenzene (continued)							
17.377	17.377 (1.159)	91	68058			0.00- 30.00	58.68
150 Pentachloroethane					CAS #: 76-01-7		
17.460	17.460 (1.164)	167	17042	2.00000	1.283	70.00- 130.00	100.00(a)
17.432	17.432 (1.162)	117	21565			0.00- 30.00	126.54
151 sec-Butylbenzene					CAS #: 135-98-8		
17.598	17.598 (1.173)	105	138524	2.00000	1.543	70.00- 130.00	100.00(a)
17.598	17.598 (1.173)	134	21366			0.00- 49.07	15.42
17.598	17.598 (1.173)	91	26208			0.00- 30.00	18.92
153 p-Cymene					CAS #: 99-87-6		
17.764	17.764 (1.184)	134	26565	2.00000	1.367	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	119	95739			341.15- 401.15	360.40
17.764	17.764 (1.184)	91	23297			0.00- 30.00	87.70
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.875	17.875 (1.192)	120	37919	2.00000	1.358	70.00- 130.00	100.00(a)
17.875	17.875 (1.192)	105	93862			197.36- 257.36	247.53
17.875	17.875 (1.192)	77	10501			0.00- 30.00	27.69
158 Butylbenzene					CAS #: 104-51-8		
18.151	18.151 (1.210)	134	24456	2.00000	1.396	70.00- 130.00	100.00(a)
18.123	18.123 (1.208)	91	104158			393.82- 453.82	425.90
18.123	18.123 (1.208)	92	50355			0.00- 30.00	205.90
160 Hexachloroethane					CAS #: 67-72-1		
18.372	18.372 (1.225)	117	35457	2.00000	1.368	70.00- 130.00	100.00(a)
18.400	18.400 (1.227)	201	21688			0.00- 30.00	61.17
	Sum of Peak Amounts =			1.37			
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.898	18.898 (1.260)	157	23310	2.00000	1.302	70.00- 130.00	100.00(a)
18.870	18.870 (1.258)	75	30534			92.49- 152.49	130.99
18.898	18.898 (1.260)	155	18218			0.00- 30.00	78.16
166 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
19.865	19.865 (1.324)	180	65333	2.00000	1.684	70.00- 130.00	100.00(a)
19.865	19.865 (1.324)	182	62516			0.00- 30.00	95.69
19.865	19.865 (1.324)	145	19587			0.00- 30.00	29.98
192 Cyclopentene					CAS #: 142-29-0		
5.239	5.239 (0.650)	67	74381	2.00000	1.545	70.00- 130.00	100.00(a)
5.239	5.239 (0.650)	68	26258			0.00- 30.00	35.30
5.239	5.239 (0.650)	53	16468			0.00- 30.00	22.14

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111216.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 19:48
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	345466	207280	483652	333304	-3.52
92 1,4-Difluorobenze	1312181	787309	1837053	1294039	-1.38
125 Chlorobenzene-d5	1008754	605252	1412256	982975	-2.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-12nov.b/5111216.d

Date : 12-NOV-2007 19:20

Client ID: Level 3

Sample Info: 2.0mL #1487-404

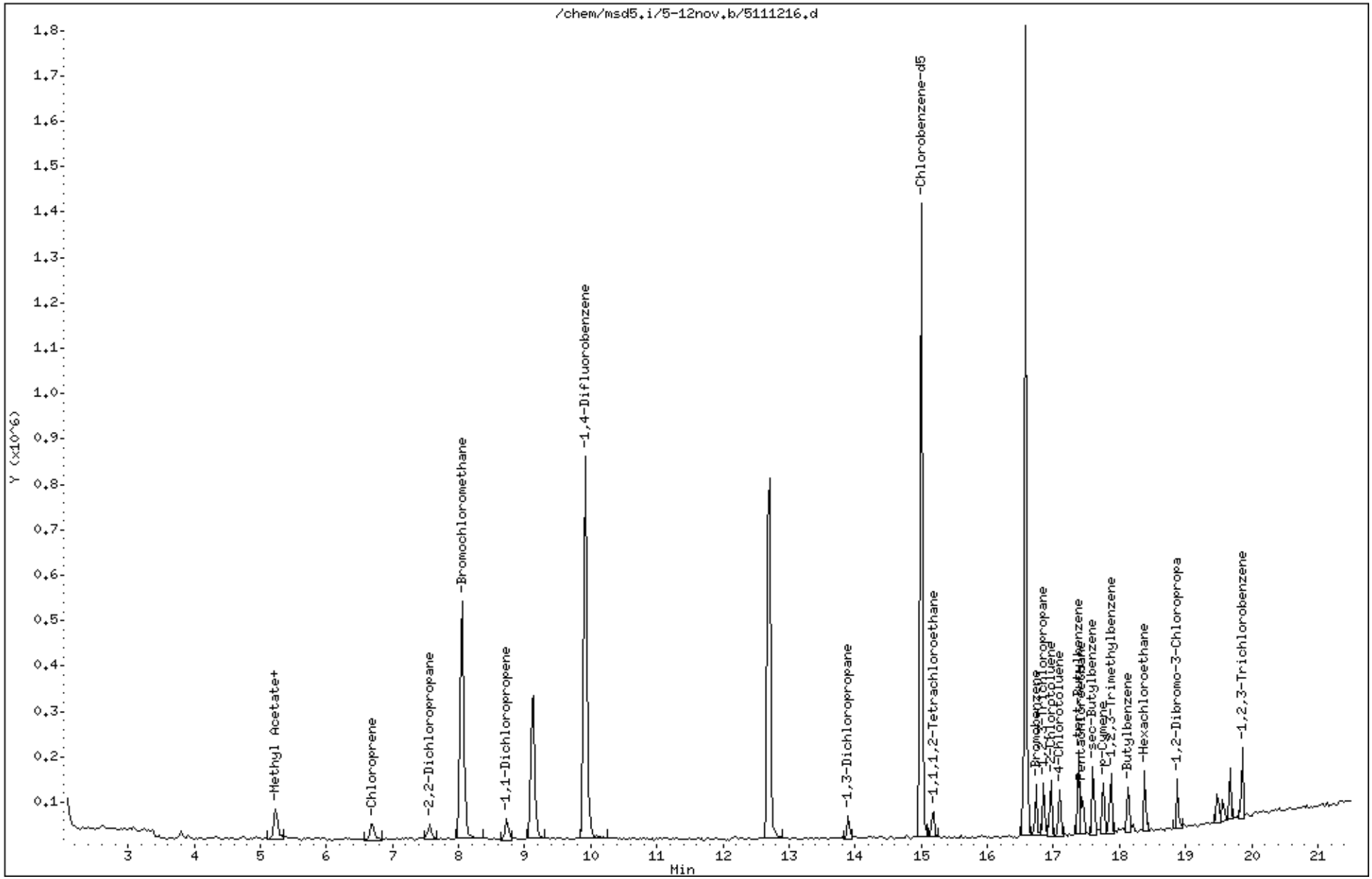
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0091



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111209.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 12-NOV-2007 14:17
Operator : cb Inst ID: msd5.i
Smp Info : 2mL #1576-89
Misc Info : 200ppbv -> 2ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 14:17 Cal File: 5111209.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	322724	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	256512			42.76- 102.76	79.48
8.059	8.059 (1.000)	49	726685			173.18- 233.18	225.17
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1214211	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	205951			0.00- 46.42	16.96
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	958757	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	568356			0.00- 30.00	59.28
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	464909	25.0000	24.068	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	229742			0.00- 30.00	49.42
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1056409	25.0000	24.643	70.00- 130.00	100.00
12.676	12.676 (1.279)	70	110980			0.00- 30.00	10.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	688251			0.00- 30.00	65.15
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	533075	25.0000	23.829	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	889818			128.71- 188.71	166.92
16.575	16.575 (1.105)	176	520587			68.26- 128.26	97.66
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	34509	2.00000	1.532	70.00- 130.00	100.00(a)
2.280	2.280 (0.283)	42	30676			0.00- 30.00	88.89
2.280	2.280 (0.283)	39	24651			0.00- 30.00	71.43
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	62431	2.00000	1.636	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	24055			0.00- 30.00	38.53
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	60617	2.00000	1.740	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	17640			2.29- 62.29	29.10
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	41485	2.00000	1.448	70.00- 130.00	100.00(a)
2.612	2.612 (0.324)	52	14778			0.00- 30.00	35.62
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	44200	2.00000	1.603	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	12716			0.00- 30.00	28.77
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	34201	2.00000	1.452	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	38518			0.00- 30.00	112.62
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	26487	2.00000	1.488	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	25693			65.07- 125.07	97.00
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	22215	2.00000	1.584	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	6499			0.00- 30.00	29.26
3.414	3.414 (0.424)	66	5751			0.00- 30.00	25.89
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	65110	2.00000	1.565	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	47734			34.56- 94.56	73.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	13596	2.00000	1.504	70.00- 130.00	100.00(a)
4.105	4.105 (0.509)	43	3872			0.00- 30.00	28.48
4.105	4.105 (0.509)	46	4661			0.00- 30.00	34.28
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	40323	2.00000	1.559	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	25890			33.43- 93.43	64.21
4.520	4.520 (0.561)	101	61129			108.48- 168.48	151.60
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	55820	2.00000	1.630	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	30966			27.13- 87.13	55.47
4.575	4.575 (0.568)	98	20802			5.60- 65.60	37.27
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	15775	2.00000	1.232	70.00- 130.00	100.00(a)
4.741	4.741 (0.588)	43	53793			0.00- 30.00	341.00
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	59840	2.00000	1.313	70.00- 130.00	100.00(a)
4.935	4.935 (0.612)	43	22325			0.00- 30.00	37.31
4.935	4.935 (0.612)	59	2440			0.00- 30.00	4.08
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	90183	2.00000	1.555	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	13938	2.00000	1.444	70.00- 130.00	100.00(a)
5.183	5.183 (0.643)	41	46871			0.00- 30.00	336.28
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	46452	2.00000	1.587	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	27786			29.81- 89.81	59.82
5.432	5.432 (0.674)	51	15672			0.00- 30.00	33.74
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	39158	2.00000	1.777	70.00- 130.00	100.00
5.792	5.792 (0.719)	57	11612			1.68- 61.68	29.65
5.792	5.792 (0.719)	41	16143			0.00- 30.00	41.23
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	33004	2.00000	1.592	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	57452			133.65- 193.65	174.08
5.819	5.819 (0.722)	98	21915			0.00- 30.00	66.40

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	62884	2.00000	1.491	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	45994			0.00- 30.00	73.14
6.179	6.179 (0.767)	86	7888			0.00- 30.00	12.54
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	62245	2.00000	1.658	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	19845			0.52- 60.52	31.88
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	11020	2.00000	1.216	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	61049			536.33- 596.33	553.98
7.700	7.700 (0.955)	57	5393			0.00- 30.00	48.94
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	45989	2.00000	1.631	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	27458			37.56- 97.56	59.71
7.617	7.617 (0.945)	98	20458			14.52- 74.52	44.48
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	52041	2.00000	1.542	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	14250			0.00- 55.74	27.38
8.059	8.059 (1.000)	72	13170			0.00- 30.00	25.31
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	51953	2.00000	1.633	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	34726			35.19- 95.19	66.84
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	49288	2.00000	1.550	70.00- 130.00	100.00
8.418	8.418 (1.045)	99	27424			33.02- 93.02	55.64
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	40263	2.00000	1.572	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	59986			126.11- 186.11	148.99
8.391	8.391 (1.041)	41	35277			55.82- 115.82	87.62
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	4258	2.00000	0.8952	70.00- 130.00	100.00(a)
6.677	6.677 (0.828)	43	46710			0.00- 30.00	1096.99
6.677	6.677 (0.828)	42	6522			0.00- 30.00	153.17
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	40265	2.00000	1.534	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	46330			75.98- 135.98	115.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	166134	2.00000	1.437	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	53643			0.00- 30.00	32.29
9.082	9.082 (1.127)	41	48146			0.00- 30.00	28.98
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	81098	2.00000	1.550	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	19267			0.00- 30.00	23.76
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	37851	2.00000	1.579	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	14265			0.00- 30.00	37.69
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	8177	2.00000	1.399	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	68554			0.00- 30.00	838.38
9.469	9.469 (0.955)	71	25465			0.00- 30.00	311.42
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	31935	2.00000	1.504	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	35650			64.49- 124.49	111.63
10.326	10.326 (1.042)	97	22195			34.72- 94.72	69.50
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	34179	2.00000	1.661	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	22975			39.05- 99.05	67.22
10.852	10.852 (1.095)	41	22269			36.65- 96.65	65.15
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	18006	2.00000	1.506	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	58	18328			62.00- 122.00	101.79
11.073	11.073 (1.117)	57	7210			0.00- 30.00	40.04
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	46637	2.00000	1.571	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	25261			34.72- 94.72	54.17
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	31732	2.00000	1.508	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	9531			0.28- 60.28	30.04
12.317	12.317 (1.243)	39	23919			43.30- 103.30	75.38
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	22957	2.00000	1.339	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	75333			0.00- 30.00	328.15
12.621	12.621 (1.273)	85	8223			0.00- 30.00	35.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	84031	2.00000	1.556	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	49902			29.65- 89.65	59.39
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	22625	2.00000	1.117	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	8200			1.96- 61.96	36.24
13.368	13.368 (0.891)	39	16458			38.82- 98.82	72.74
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	30273	2.00000	1.675	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	19956			33.63- 93.63	65.92
13.644	13.644 (0.910)	83	24520			55.73- 115.73	81.00
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	37916	2.00000	1.805	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	24639			50.24- 110.24	64.98
13.699	13.699 (0.913)	131	24276			48.42- 108.42	64.03
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	29687	2.00000	1.178	70.00- 130.00	100.00(a)
14.031	14.031 (0.935)	43	64036			168.65- 228.65	215.70
14.031	14.031 (0.935)	100	4239			0.00- 30.00	14.28
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	35286	2.00000	1.396	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	26625			0.00- 30.00	75.45
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	39203	2.00000	1.480	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	34913			63.74- 123.74	89.06
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	72501	2.00000	1.757	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	21533			1.82- 61.82	29.70
15.027	15.027 (1.002)	77	47947			31.79- 91.79	66.13
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	29817	2.00000	1.338	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	112702			0.00- 30.00	377.98
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	39645	2.00000	1.448	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	85232			0.00- 30.00	214.99
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	40312	2.00000	1.548	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	83837			195.49- 255.49	207.97
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	46549	2.00000	1.213	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	26850			22.39- 82.39	57.68
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	30933	2.00000	1.373	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	16221			21.21- 81.21	52.44
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	66301	2.00000	1.689	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	42929			33.63- 93.63	64.75
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	111317	2.00000	1.449	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	31652			0.00- 59.46	28.43
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	103369	2.00000	1.489	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	52144			0.00- 30.00	50.44
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	88326	2.00000	1.500	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	40529			16.11- 76.11	45.89
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	66466	2.00000	1.594	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	46072			0.00- 30.00	69.32
17.764	17.764 (1.184)	111	29558			0.00- 30.00	44.47
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	84647	2.00000	1.732	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	47850			0.00- 30.00	56.53
17.847	17.847 (1.190)	111	35983			0.00- 30.00	42.51
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	60800	2.00000	0.9881	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	12615			0.00- 30.00	20.75
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	83215	2.00000	1.897	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	48015			32.64- 92.64	57.70
18.206	18.206 (1.214)	111	30589			11.53- 71.53	36.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	59101	2.00000	1.898	70.00- 130.00	100.00(a)
19.506	19.506 (1.300)	182	53267			63.93- 123.93	90.13
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	41151	2.00000	1.882	70.00- 130.00	100.00(a)
19.589	19.589 (1.306)	223	24876			32.69- 92.69	60.45
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	141217	2.00000	1.562	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	31026			0.00- 30.00	21.97
16.852	16.852 (1.123)	105	4167			0.00- 30.00	2.95
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	114034	2.00000	1.445	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	27668			0.00- 30.00	24.26
16.326	16.326 (1.088)	51	17582			0.00- 30.00	15.42
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	197397	2.00000	1.904	70.00- 130.00	100.00(a)
19.672	19.672 (1.312)	127	24023			0.00- 30.00	12.17
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	64612	2.00000	1.617	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	57	43012			0.00- 30.00	66.57
3.414	3.414 (0.424)	72	3775			0.00- 30.00	5.84
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	10883	2.00000	1.598	70.00- 130.00	100.00(a)
2.667	2.667 (0.331)	43	85425			0.00- 30.00	784.94
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	47307	2.00000	1.565	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	22026			0.00- 30.00	46.56
10.547	10.547 (1.064)	55	54868			0.00- 30.00	115.98

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 2ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	322724	-9.15
92 1,4-Difluorobenze	1306915	784149	1829681	1214211	-7.09
125 Chlorobenzene-d5	1023463	614078	1432848	958757	-6.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-12nov.b/5111209.d

Date : 12-NOV-2007 14:17

Client ID: Level 3

Sample Info: 2mL #1576-89

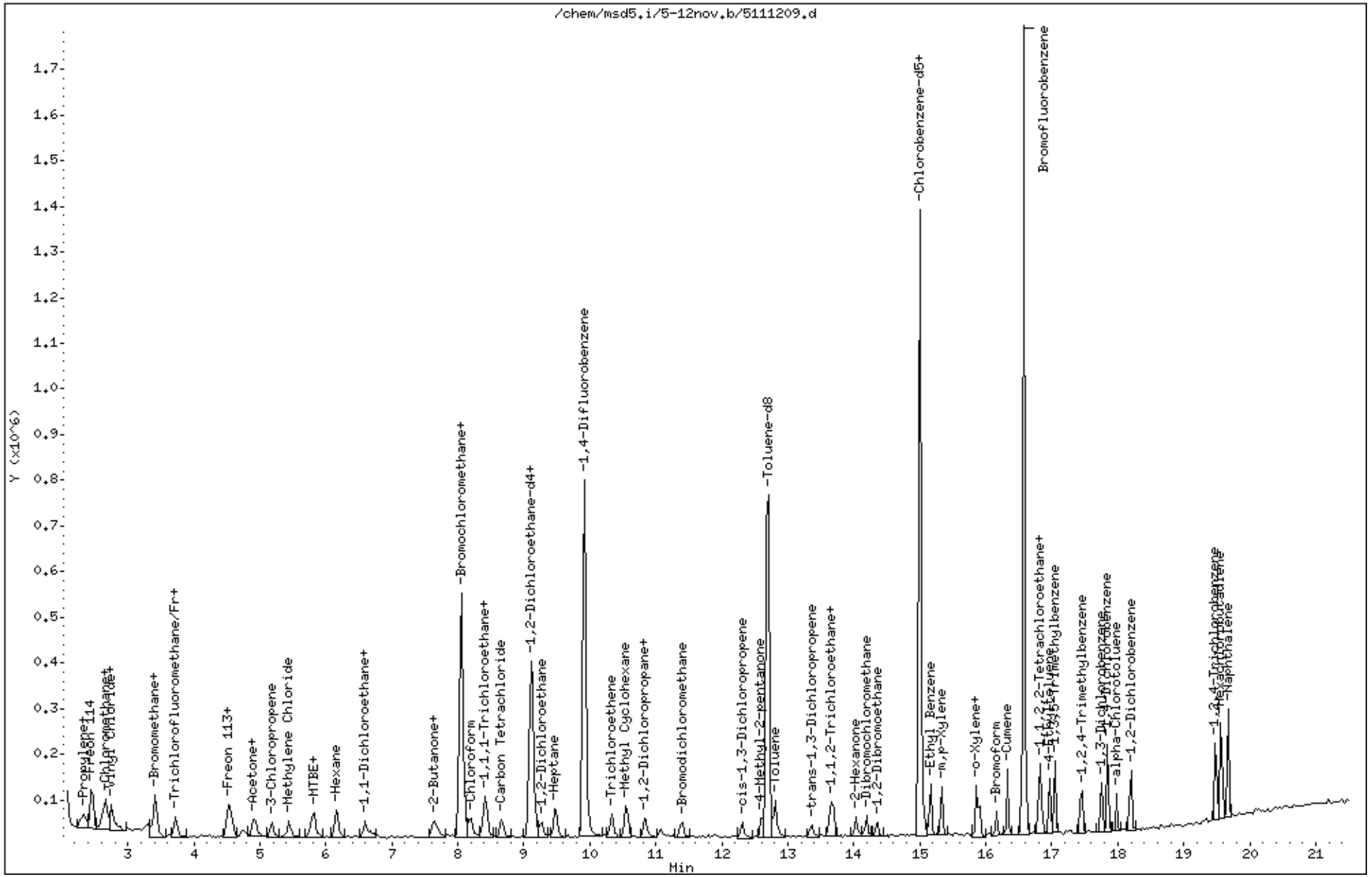
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0101



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111210.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 12-NOV-2007 14:45
Operator : cb Inst ID: msd5.i
Smp Info : 25mL #1576-89
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 14:45 Cal File: 5111210.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	334527	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	260785			42.76- 102.76		77.96
8.031	8.031 (1.000)	49	727160			173.18- 233.18		217.37
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1289908	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	199765			0.00- 46.42		15.49
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	997843	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	587344			0.00- 30.00		58.86
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.110	9.110 (1.130)	65	483717	25.0000	24.158	70.00- 130.00		100.00
9.137	9.137 (1.134)	67	270045			0.00- 30.00		55.83
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1153506	25.0000	25.329	70.00- 130.00		100.00
12.704	12.704 (1.282)	70	115740			0.00- 30.00		10.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	758692			0.00- 30.00	65.77
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	591715	25.0000	25.414	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	932598			128.71- 188.71	157.61
16.575	16.575 (1.105)	176	571616			68.26- 128.26	96.60
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	662690	25.0000	28.381	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	450921			0.00- 30.00	68.04
2.280	2.280 (0.283)	39	450789			0.00- 30.00	68.02
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1146478	25.0000	28.984	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	378796			0.00- 30.00	33.04
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1050229	25.0000	29.093	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	322619			2.29- 62.29	30.72
10 Chloromethane					CAS #: 74-87-3		
2.585	2.585 (0.321)	50	855747	25.0000	28.811	70.00- 130.00	100.00
2.585	2.585 (0.321)	52	260182			0.00- 30.00	30.40
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	838816	25.0000	29.341	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	261204			0.00- 30.00	31.14
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	752822	25.0000	30.834	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	795006			0.00- 30.00	105.60
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	546191	25.0000	29.593	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	523940			65.07- 125.07	95.93
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	429880	25.0000	29.561	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	120010			0.00- 30.00	27.92
3.386	3.386 (0.420)	66	127147			0.00- 30.00	29.58
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1264537	25.0000	29.322	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	819011			34.56- 94.56	64.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	279983	25.0000	29.884	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	55168			0.00- 30.00	19.70
4.078	4.078 (0.506)	46	117750			0.00- 30.00	42.06
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	793323	25.0000	29.584	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	486250			33.43- 93.43	61.29
4.520	4.520 (0.561)	101	1063047			108.48- 168.48	134.00
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1025912	25.0000	28.907	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	579347			27.13- 87.13	56.47
4.575	4.575 (0.568)	98	379018			5.60- 65.60	36.94
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	374495	25.0000	28.212	70.00- 130.00	100.00
4.714	4.714 (0.585)	43	1138367			0.00- 30.00	303.97
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1288123	25.0000	27.267	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	286038			0.00- 30.00	22.21
4.935	4.935 (0.612)	59	48259			0.00- 30.00	3.75
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1812623	25.0000	30.160	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	274594	25.0000	27.441	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	1080424			0.00- 30.00	393.46
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	864094	25.0000	28.474	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	511783			29.81- 89.81	59.23
5.432	5.432 (0.674)	51	267550			0.00- 30.00	30.96
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	628320	25.0000	27.505	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	190297			1.68- 61.68	30.29
5.764	5.764 (0.715)	41	220926			0.00- 30.00	35.16
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	642782	25.0000	29.906	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	1038046			133.65- 193.65	161.49
5.820	5.820 (0.722)	98	412618			0.00- 30.00	64.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1293253	25.0000	29.589	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	912632			0.00- 30.00	70.57
6.151	6.151 (0.763)	86	175618			0.00- 30.00	13.58
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1159420	25.0000	29.792	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	353585			0.52- 60.52	30.50
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	260618	25.0000	27.749	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	1556458			536.33- 596.33	597.22
7.672	7.672 (0.952)	57	108815			0.00- 30.00	41.75
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	852737	25.0000	29.183	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	579802			37.56- 97.56	67.99
7.617	7.617 (0.945)	98	374515			14.52- 74.52	43.92
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	941307	25.0000	26.918	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	243549			0.00- 55.74	25.87
8.031	8.031 (0.997)	72	276695			0.00- 30.00	29.39
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	974502	25.0000	29.554	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	633277			35.19- 95.19	64.98
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.419 (1.045)	97	934919	25.0000	28.366	70.00- 130.00	100.00
8.419	8.419 (1.045)	99	613886			33.02- 93.02	65.66
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	792547	25.0000	29.850	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	1226244			126.11- 186.11	154.72
8.391	8.391 (1.041)	41	701484			55.82- 115.82	88.51
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	138576	25.0000	28.107	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1704333			0.00- 30.00	1229.89
6.649	6.649 (0.825)	42	130423			0.00- 30.00	94.12
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	809879	25.0000	29.761	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	859338			75.98- 135.98	106.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	3611843	25.0000	30.137	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	1138268			0.00- 30.00	31.51
9.110	9.110 (1.130)	41	934324			0.00- 30.00	25.87
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1645273	25.0000	29.592	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	374414			0.00- 30.00	22.76
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	733430	25.0000	28.795	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	229542			0.00- 30.00	31.30
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	187102	25.0000	30.129	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1432521			0.00- 30.00	765.64
9.469	9.469 (0.955)	71	558888			0.00- 30.00	298.71
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	643545	25.0000	28.538	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	606528			64.49- 124.49	94.25
10.326	10.326 (1.042)	97	408553			34.72- 94.72	63.48
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	605108	25.0000	27.675	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	432166			39.05- 99.05	71.42
10.824	10.824 (1.092)	41	428434			36.65- 96.65	70.80
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	331486	25.0000	26.104	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	317598			62.00- 122.00	95.81
11.073	11.073 (1.117)	57	103554			0.00- 30.00	31.24
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	900304	25.0000	28.555	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	563113			34.72- 94.72	62.55
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	629894	25.0000	28.188	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	201792			0.28- 60.28	32.04
12.289	12.289 (1.240)	39	478334			43.30- 103.30	75.94
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	530758	25.0000	29.139	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	1509968			0.00- 30.00	284.49
12.594	12.594 (1.271)	85	169679			0.00- 30.00	31.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1600261	25.0000	27.900	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	944522			29.65- 89.65	59.02
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	614344	25.0000	29.141	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	195343			1.96- 61.96	31.80
13.368	13.368 (0.891)	39	433660			38.82- 98.82	70.59
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	543918	25.0000	28.923	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	333845			33.63- 93.63	61.38
13.644	13.644 (0.910)	83	469329			55.73- 115.73	86.29
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	641390	25.0000	29.342	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	519336			50.24- 110.24	80.97
13.700	13.700 (0.913)	131	465809			48.42- 108.42	72.62
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	705936	25.0000	26.910	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1449745			168.65- 228.65	205.36
14.031	14.031 (0.935)	100	106081			0.00- 30.00	15.03
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	781679	25.0000	29.707	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	629962			0.00- 30.00	80.59
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	810766	25.0000	29.412	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	766083			63.74- 123.74	94.49
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1244447	25.0000	28.982	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	386814			1.82- 61.82	31.08
15.027	15.027 (1.002)	77	775823			31.79- 91.79	62.34
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	682779	25.0000	29.433	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	2277047			0.00- 30.00	333.50
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	870860	25.0000	30.564	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1817374			0.00- 30.00	208.69
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	797683	25.0000	29.441	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	1777338			195.49- 255.49	222.81
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	1266850	25.0000	31.713	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	629233			22.39- 82.39	49.67
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	675390	25.0000	28.802	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	359161			21.21- 81.21	53.18
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1232295	25.0000	30.158	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	772986			33.63- 93.63	62.73
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2465606	25.0000	30.842	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	715161			0.00- 59.46	29.01
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2280818	25.0000	31.564	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	1072498			0.00- 30.00	47.02
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	1826338	25.0000	29.794	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	851499			16.11- 76.11	46.62
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1241257	25.0000	28.603	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	812078			0.00- 30.00	65.42
17.764	17.764 (1.184)	111	499022			0.00- 30.00	40.20
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1514808	25.0000	29.784	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	963066			0.00- 30.00	63.58
17.847	17.847 (1.190)	111	647676			0.00- 30.00	42.76
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	1979971	25.0000	30.916	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	394352			0.00- 30.00	19.92
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1258812	25.0000	27.579	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	803161			32.64- 92.64	63.80
18.206	18.206 (1.214)	111	506882			11.53- 71.53	40.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	826354	25.0000	25.506	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	806386			63.93- 123.93	97.58
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	607708	25.0000	26.699	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	380207			32.69- 92.69	62.56
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	2855716	25.0000	30.351	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	608220			0.00- 30.00	21.30
16.824	16.824 (1.122)	105	99037			0.00- 30.00	3.47
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2396295	25.0000	29.169	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	632802			0.00- 30.00	26.41
16.326	16.326 (1.088)	51	340331			0.00- 30.00	14.20
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	3032327	25.0000	28.102	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	372568			0.00- 30.00	12.29
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1168743	25.0000	28.222	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	771876			0.00- 30.00	66.04
3.414	3.414 (0.424)	72	70331			0.00- 30.00	6.02
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	200544	25.0000	28.403	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1493932			0.00- 30.00	744.94
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	951148	25.0000	29.620	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	442883			0.00- 30.00	46.56
10.548	10.548 (1.064)	55	1041822			0.00- 30.00	109.53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111210.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	334527	-5.83
92 1,4-Difluorobenze	1306915	784149	1829681	1289908	-1.30
125 Chlorobenzene-d5	1023463	614078	1432848	997843	-2.50

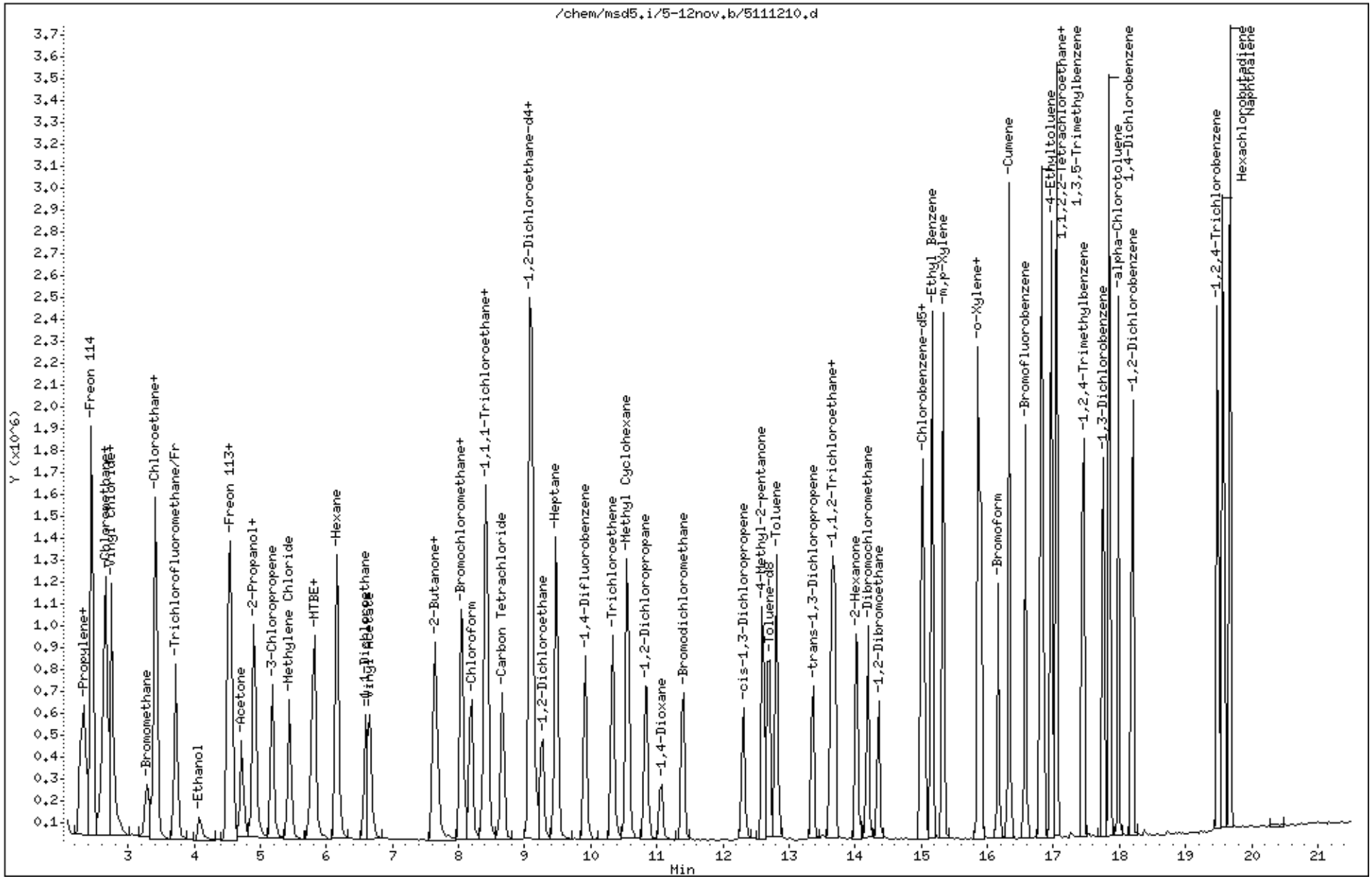
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/msd5.i/5-12nov.b/5111210.d
Date : 12-NOV-2007 14:45
Client ID: Level 4
Sample Info: 25mL #1576-89

Instrument: msd5.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



0111

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27nov.b/5112702.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 27-NOV-2007 09:21
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1443-374
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-27nov.b/t14qn12c.m
Meth Date : 27-Nov-2007 15:31 cbond Quant Type: ISTD
Cal Date : 27-NOV-2007 09:21 Cal File: 5112702.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	351932	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	271999			47.29- 107.29	77.29
8.059	8.059 (1.000)	49	750615			183.28- 243.28	213.28
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1207474	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	201712			0.00- 46.71	16.71
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	945809	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	538652			26.95- 86.95	56.95
7 Isobutane					CAS #: 75-28-5		
2.502	2.502 (0.310)	43	3734639	50.0000	57.850	80.00- 120.00	100.00
2.502	2.502 (0.310)	42	1231328			2.97- 62.97	32.97
2.502	2.502 (0.310)	58	103831			0.00- 32.78	2.78
18 Pentane					CAS #: 109-66-0		
3.829	3.829 (0.475)	43	3761769	50.0000	57.050	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.829	3.829 (0.475)	57	554812			0.00- 44.75	14.75
3.829	3.829 (0.475)	72	320049			0.00- 38.51	8.51
25 Acrolein					CAS #: 107-02-8		
4.492	4.492 (0.557)	55	509181	50.0000	61.969	80.00- 120.00	100.00
4.492	4.492 (0.557)	56	732493			113.86- 173.86	143.86
39 Acrylonitrile					CAS #: 107-13-1		
5.958	5.958 (0.739)	53	1495490	50.0000	57.662	80.00- 120.00	100.00
5.958	5.958 (0.739)	52	1118902			44.82- 104.82	74.82
42 1-Pentene					CAS #: 109-67-1		
3.746	3.746 (0.465)	55	2025749	50.0000	56.940	80.00- 120.00	100.00(T)
3.746	3.746 (0.465)	42	3115059			123.77- 183.77	153.77
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
44 Ethyl Ether					CAS #: 60-29-7		
4.188	4.188 (0.520)	74	768359	50.0000	57.089	80.00- 120.00	100.00(T)
4.188	4.188 (0.520)	59	1292702			138.24- 198.24	168.24
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
53 Iodomethane					CAS #: 74-88-4		
4.852	4.852 (0.602)	142	2900304	50.0000	62.117	80.00- 120.00	100.00
4.852	4.852 (0.602)	127	938980			2.38- 62.38	32.38
58 1-Hexene					CAS #: 592-41-6		
6.068	6.068 (0.753)	55	1196417	50.0000	58.001	80.00- 120.00	100.00
6.068	6.068 (0.753)	41	1853146			124.89- 184.89	154.89
6.068	6.068 (0.753)	84	388707			2.49- 62.49	32.49
62 Methyl Acrylate					CAS #: 96-33-3		
7.810	7.810 (0.969)	55	2465050	50.0000	59.565	80.00- 120.00	100.00
7.810	7.810 (0.969)	85	288166			0.00- 41.69	11.69
7.810	7.810 (0.969)	58	209426			0.00- 38.50	8.50
86 2-Pentanone					CAS #: 107-87-9		
10.796	10.796 (1.086)	43	3588242	50.0000	59.645	80.00- 120.00	100.00
10.796	10.796 (1.086)	58	248284			0.00- 36.92	6.92
10.796	10.796 (1.086)	86	450773			0.00- 42.56	12.56
88 Ethyl Acrylate					CAS #: 140-88-5		
10.630	10.630 (1.070)	55	2733225	50.0000	58.934	80.00- 120.00	100.00
10.630	10.630 (1.070)	99	141739			0.00- 35.19	5.19
10.630	10.630 (1.070)	45	270556			0.00- 39.90	9.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
95 Dibromomethane					CAS #: 74-95-3		
11.073	11.073 (1.114)	174	857804	50.0000	56.889	80.00- 120.00	100.00
11.073	11.073 (1.114)	93	941910			79.80- 139.80	109.80
11.073	11.073 (1.114)	95	789916			62.09- 122.09	92.09
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.114)	41	1912198	50.0000	59.195	80.00- 120.00	100.00
11.073	11.073 (1.114)	69	901405			17.14- 77.14	47.14
11.073	11.073 (1.114)	100	360526			0.00- 48.85	18.85
112 Alphamethylstyrene					CAS #: 98-83-9		
17.294	17.294 (1.153)	118	1662649	50.0000	60.907	80.00- 120.00	100.00
17.294	17.294 (1.153)	103	969695			28.32- 88.32	58.32
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.709	17.709 (1.181)	93	1748274	50.0000	54.264	80.00- 120.00	100.00
17.709	17.709 (1.181)	95	550087			1.46- 61.46	31.46
17.709	17.709 (1.181)	63	1420888			51.27- 111.27	81.27
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	3205620	50.0000	60.466	80.00- 120.00	100.00
15.331	15.331 (1.022)	57	2399225			44.84- 104.84	74.84
15.331	15.331 (1.022)	85	723428			0.00- 52.57	22.57

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5112702.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-27nov.b/t14qn12c.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 27-NOV-2007
Calibration Time: 09:21
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	351932	211159	492705	351932	0.00
92 1,4-Difluorobenze	1207474	724484	1690464	1207474	0.00
125 Chlorobenzene-d5	945809	567485	1324133	945809	0.00

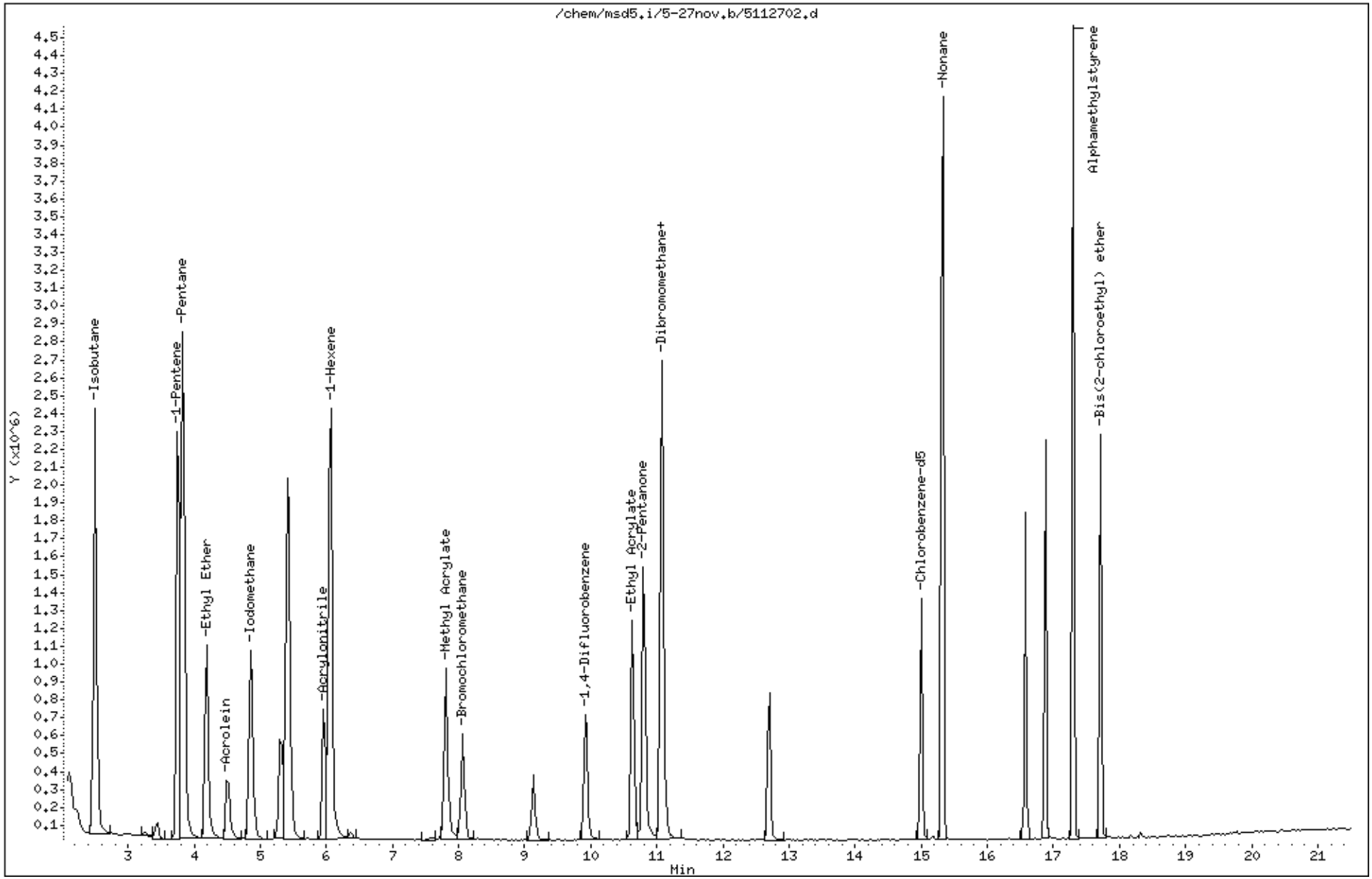
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/msd5.i/5-27nov.b/5112702.d
Date : 27-NOV-2007 09:21
Client ID: Level 5
Sample Info: 50mL #1443-374

Instrument: msd5.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



0116

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-19nov.b/5111903.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 19-NOV-2007 02:24
Operator : sjr Inst ID: msd5.i
Smp Info : 50mL #1487-405
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-19nov.b/t14qn12b.m
Meth Date : 20-Nov-2007 15:39 ctaylor Quant Type: ISTD
Cal Date : 19-NOV-2007 02:24 Cal File: 5111903.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	320182	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	247757			47.38- 107.38	77.38
8.059	8.059 (1.000)	49	727629			197.25- 257.25	227.25
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1222930	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	214130			0.00- 47.51	17.51
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	969063	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	569146			28.73- 88.73	58.73
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	725525	50.0000	54.536	80.00- 120.00	100.00
2.335	2.335 (0.290)	69	86258			0.00- 41.89	11.89
3 Freon 152a					CAS #: 75-37-6		
2.280	2.280 (0.283)	65	672942	50.0000	58.047	80.00- 120.00	100.00
2.335	2.335 (0.290)	51	3505165			490.87- 550.87	520.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.335	2.335 (0.290)	67	186741	50.0000	49.706	80.00- 120.00	100.00
2.335	2.335 (0.290)	51	3481504			1834.35-1894.35	1864.35
5 Freon142b					CAS #: 75-68-3		
2.557	2.557 (0.317)	65	1425792	50.0000	63.457	80.00- 120.00	100.00
2.529	2.529 (0.314)	45	439299			0.81- 60.81	30.81
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.718	3.718 (0.461)	67	1566047	50.0000	55.419	80.00- 120.00	100.00
3.718	3.718 (0.461)	69	474287			0.29- 60.29	30.29
3.773	3.773 (0.468)	35	4459			0.00- 30.28	0.28
22 Freon123a					CAS #: 354-23-4		
4.271	4.271 (0.530)	117	802431	50.0000	51.785	80.00- 120.00	100.00
4.271	4.271 (0.530)	67	1266245			127.80- 187.80	157.80
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.547)	83	1635430	50.0000	56.515	80.00- 120.00	100.00
4.409	4.409 (0.547)	133	249822			0.00- 45.28	15.28
4.409	4.409 (0.547)	85	1130542			39.13- 99.13	69.13
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	871998	50.0000	44.645	80.00- 120.00	100.00
5.570	5.570 (0.691)	41	287836			3.01- 63.01	33.01
5.570	5.570 (0.691)	57	89186			0.00- 40.23	10.23
49 Isopropyl ether					CAS #: 108-20-3		
6.593	6.593 (0.818)	45	4403085	50.0000	58.244	80.00- 120.00	100.00
6.593	6.593 (0.818)	87	831467			0.00- 48.88	18.88
6.593	6.593 (0.818)	59	440147			0.00- 40.00	10.00
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	1932300	50.0000	62.956	80.00- 120.00	100.00
7.202	7.202 (0.894)	87	624017			2.29- 62.29	32.29
7.202	7.202 (0.894)	41	425510			0.00- 52.02	22.02
61 Ethyl Acetate					CAS #: 141-78-6		
7.699	7.699 (0.955)	70	203725	50.0000	59.358	80.00- 120.00	100.00
7.699	7.699 (0.955)	43	2599138			1245.81-1305.81	1275.81
7.699	7.699 (0.955)	61	314227			124.24- 184.24	154.24
64 1-Propanol					CAS #: 71-23-8		
6.815	6.815 (0.846)	42	196110	50.0000	70.686	80.00- 120.00	100.00
6.815	6.815 (0.846)	59	196448			70.17- 130.17	100.17
6.815	6.815 (0.846)	41	119724			31.05- 91.05	61.05

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
76 Isobutanol						CAS #: 78-83-1	
9.082	9.082 (0.916)	43	957047	50.0000	59.454	80.00- 120.00	100.00
9.082	9.082 (0.916)	41	676060			40.64- 100.64	70.64
78 tert-amyl-Methyl Ether						CAS #: 994-05-8	
9.275	9.275 (1.151)	73	1541577	50.0000	60.655	80.00- 120.00	100.00
9.275	9.275 (1.151)	87	383472			0.00- 54.88	24.88
9.275	9.275 (1.151)	55	715772			16.43- 76.43	46.43
118 Butyl Acetate						CAS #: 123-86-4	
14.197	14.197 (1.432)	56	1080669	50.0000	63.411	80.00- 120.00	100.00
14.197	14.197 (1.432)	73	298763			0.00- 57.65	27.65
14.197	14.197 (1.432)	43	2701863			220.02- 280.02	250.02
131 2-Heptanone						CAS #: 110-43-0	
16.077	16.077 (1.072)	58	1533405	50.0000	60.264	80.00- 120.00	100.00
16.077	16.077 (1.072)	43	2665724			143.84- 203.84	173.84
135 Cyclohexanone						CAS #: 108-94-1	
16.520	16.520 (1.101)	55	1376890	50.0000	57.101	80.00- 120.00	100.00
16.520	16.520 (1.101)	98	447407			2.49- 62.49	32.49
16.520	16.520 (1.101)	42	988900			41.82- 101.82	71.82
146 Diisobutyl Ketone						CAS #: 108-83-8	
17.211	17.211 (1.147)	57	3684582	50.0000	56.291	80.00- 120.00	100.00
17.211	17.211 (1.147)	85	2242699			30.87- 90.87	60.87

Report Date: 20-Nov-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111903.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd5.i/5-19nov.b/t14qn12b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 19-NOV-2007
Calibration Time: 02:24
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	320182	192109	448255	320182	0.00
92 1,4-Difluorobenze	1222930	733758	1712102	1222930	0.00
125 Chlorobenzene-d5	969063	581438	1356688	969063	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

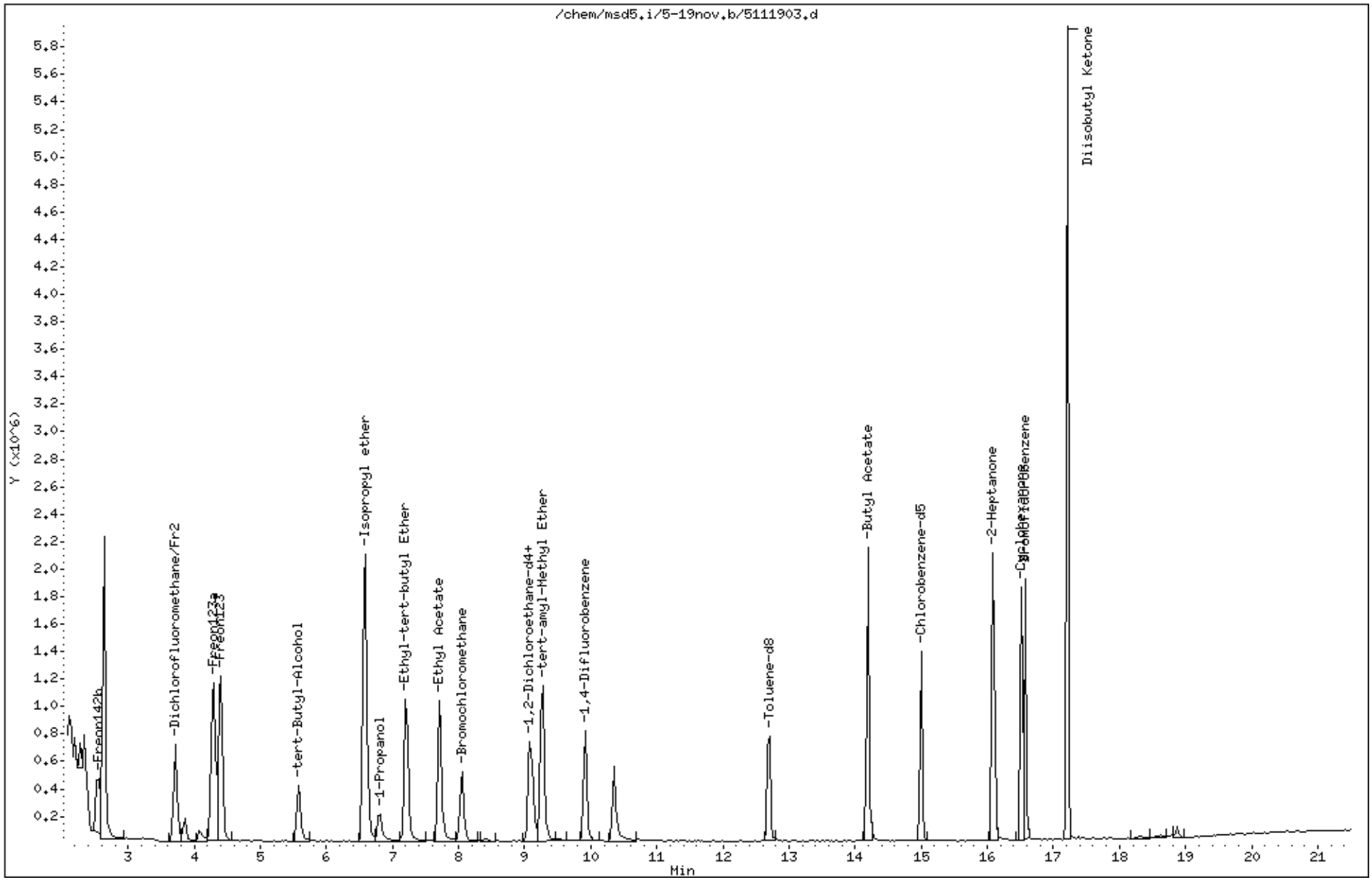
0121

Data File: /chem/msd5.i/5-19nov.b/5111903.d
Date : 19-NOV-2007 02:24
Client ID: Level 5
Sample Info: 50mL #1487-405

Column phase: RTx-624

Instrument: msd5.i

Operator: sjr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111217.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 12-NOV-2007 19:48
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1487-404
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:25 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 19:48 Cal File: 5111217.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp20a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	345466	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	268730			47.79- 107.79		77.79
8.031	8.031 (1.000)	49	746996			186.23- 246.23		216.23
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1312181	25.0000		80.00- 120.00		100.00
9.912	9.912 (1.000)	88	210064			0.00- 46.01		16.01
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1008754	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	607985			30.27- 90.27		60.27
33 Methyl Acetate					CAS #: 79-20-9			
5.211	5.211 (0.647)	43	3002789	50.0000	58.786	80.00- 120.00		100.00
5.211	5.211 (0.647)	74	493386			0.00- 46.43		16.43
5.211	5.211 (0.647)	59	206971			0.00- 36.89		6.89
52 Chloroprene					CAS #: 126-99-8			
6.677	6.677 (0.828)	53	2405354	50.0000	58.823	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
52 Chloroprene (continued)							
6.677	6.677 (0.828)	88	1024721			12.60- 72.60	42.60
6.677	6.677 (0.828)	50	551998			0.00- 52.95	22.95
59 1,3-Dichloropropane					CAS #: 142-28-9		
13.893	13.893 (1.402)	76	1453809	50.0000	58.082	80.00- 120.00	100.00
13.893	13.893 (1.402)	41	1436383			68.80- 128.80	98.80
13.893	13.893 (1.402)	78	465938			2.05- 62.05	32.05
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.561	7.561 (0.938)	77	1380807	50.0000	57.766	80.00- 120.00	100.00
7.561	7.561 (0.938)	79	453796			2.86- 62.86	32.86
7.561	7.561 (0.938)	97	311903			0.00- 52.59	22.59
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.723	8.723 (1.082)	110	527576	50.0000	57.969	80.00- 120.00	100.00
8.723	8.723 (1.082)	75	1429533			240.96- 300.96	270.96
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.193	15.193 (1.013)	131	1054297	50.0000	58.469	80.00- 120.00	100.00
15.193	15.193 (1.013)	117	721225			38.41- 98.41	68.41
15.165	15.165 (1.011)	95	427459			10.54- 70.54	40.54
137 Bromobenzene					CAS #: 108-86-1		
16.741	16.741 (1.116)	156	1300604	50.0000	58.297	80.00- 120.00	100.00
16.741	16.741 (1.116)	77	2361550			151.57- 211.57	181.57
16.741	16.741 (1.116)	158	1239903			65.33- 125.33	95.33
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.852	16.852 (1.123)	110	696512	50.0000	56.901	80.00- 120.00	100.00
16.852	16.852 (1.123)	61	577248			52.88- 112.88	82.88
16.852	16.852 (1.123)	112	428340			31.50- 91.50	61.50
140 2-Chlorotoluene					CAS #: 95-49-8		
16.962	16.962 (1.131)	126	1106391	50.0000	59.165	80.00- 120.00	100.00
16.962	16.962 (1.131)	91	3514345			287.64- 347.64	317.64
16.962	16.962 (1.131)	65	354394			2.03- 62.03	32.03
143 4-Chlorotoluene					CAS #: 106-43-4		
17.100	17.100 (1.140)	126	1096512	50.0000	57.144	80.00- 120.00	100.00
17.100	17.100 (1.140)	91	3485044			287.83- 347.83	317.83
17.100	17.100 (1.140)	63	442755			10.38- 70.38	40.38
149 tert-Butylbenzene					CAS #: 98-06-6		
17.377	17.377 (1.159)	119	4280060	50.0000	55.137	80.00- 120.00	100.00
17.377	17.377 (1.159)	134	1013841			0.00- 53.69	23.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
149 tert-Butylbenzene (continued)							
17.377	17.377 (1.159)	91	2758688			34.45- 94.45	64.45
150 Pentachloroethane					CAS #: 76-01-7		
17.460	17.460 (1.164)	167	794680	50.0000	58.289	80.00- 120.00	100.00
17.432	17.432 (1.162)	117	894688			82.58- 142.58	112.58
151 sec-Butylbenzene					CAS #: 135-98-8		
17.598	17.598 (1.173)	105	5449977	50.0000	59.146	80.00- 120.00	100.00
17.598	17.598 (1.173)	134	1039049			0.00- 49.07	19.07
17.598	17.598 (1.173)	91	915072			0.00- 46.79	16.79
153 p-Cymene					CAS #: 99-87-6		
17.764	17.764 (1.184)	134	1136321	50.0000	56.976	80.00- 120.00	100.00
17.764	17.764 (1.184)	119	4217404			341.15- 401.15	371.15
17.764	17.764 (1.184)	91	1020158			59.78- 119.78	89.78
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.875	17.875 (1.192)	120	1673326	50.0000	58.418	80.00- 120.00	100.00
17.875	17.875 (1.192)	105	3804482			197.36- 257.36	227.36
17.875	17.875 (1.192)	77	419654			0.00- 55.08	25.08
158 Butylbenzene					CAS #: 104-51-8		
18.151	18.151 (1.210)	134	1017669	50.0000	56.589	80.00- 120.00	100.00
18.123	18.123 (1.208)	91	4313119			393.82- 453.82	423.82
18.123	18.123 (1.208)	92	2356714			201.58- 261.58	231.58
160 Hexachloroethane					CAS #: 67-72-1		
18.372	18.372 (1.225)	117	1526467	50.0000	57.384	80.00- 120.00	100.00
18.400	18.400 (1.227)	201	960023			32.89- 92.89	62.89
	Sum of Peak Amounts =			57.4			
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.870	18.870 (1.258)	157	1023062	50.0000	55.695	80.00- 120.00	100.00
18.870	18.870 (1.258)	75	1253152			92.49- 152.49	122.49
18.870	18.870 (1.258)	155	805144			48.70- 108.70	78.70
166 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
19.865	19.865 (1.324)	180	2109836	50.0000	53.002	80.00- 120.00	100.00
19.865	19.865 (1.324)	182	1992366			64.43- 124.43	94.43
19.865	19.865 (1.324)	145	683997			2.42- 62.42	32.42
192 Cyclopentene					CAS #: 142-29-0		
5.239	5.239 (0.650)	67	2884987	50.0000	57.822	80.00- 120.00	100.00
5.239	5.239 (0.650)	68	1097704			8.05- 68.05	38.05
5.239	5.239 (0.650)	53	689669			0.00- 53.91	23.91

Report Date: 13-Nov-2007 13:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111217.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 19:48
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	345466	207280	483652	345466	0.00
92 1,4-Difluorobenze	1312181	787309	1837053	1312181	0.00
125 Chlorobenzene-d5	1008754	605252	1412256	1008754	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

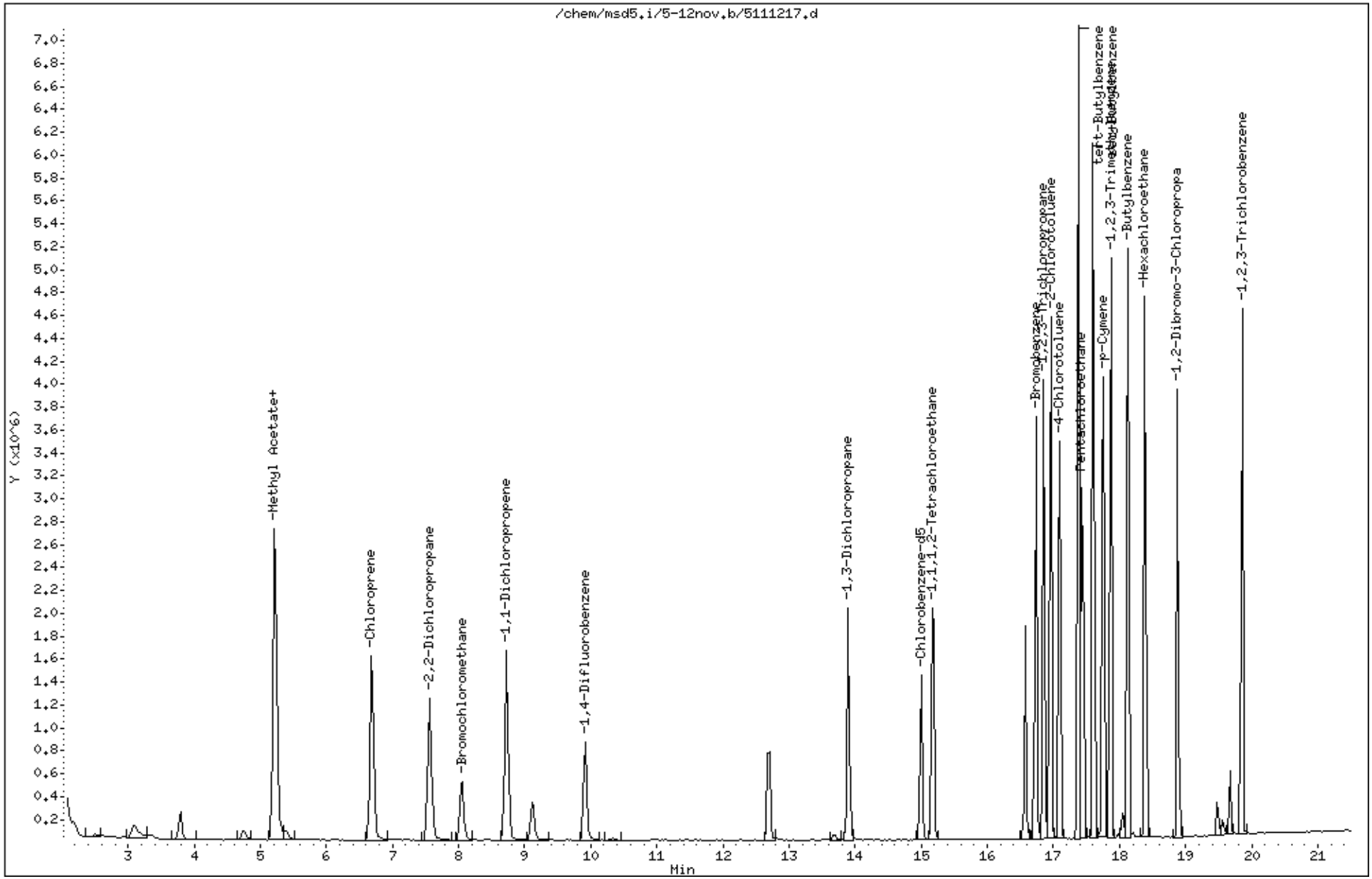
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0126

Data File: /chem/msd5.i/5-12nov.b/5111217.d
Date : 12-NOV-2007 19:48
Client ID: Level 5
Sample Info: 50mL #1487-404

Instrument: msd5.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111211.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 12-NOV-2007 15:12
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-89
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 15:12 Cal File: 5111211.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	355243	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	258473			42.76- 102.76	72.76
8.059	8.059 (1.000)	49	721775			173.18- 233.18	203.18
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1306915	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	214533			0.00- 46.42	16.42
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1023463	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	610449			29.65- 89.65	59.65
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	493461	25.0000	23.207	80.00- 120.00	100.00
9.110	9.110 (1.130)	67	285594			27.88- 87.88	57.88
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1175775	25.0000	25.482	80.00- 120.00	100.00
12.676	12.676 (1.279)	70	120943			0.00- 40.29	10.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	797977			37.87- 97.87	67.87
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	601379	25.0000	25.183	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	954444			128.71- 188.71	158.71
16.575	16.575 (1.105)	176	590897			68.26- 128.26	98.26
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1312675	50.0000	52.940	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	859227			35.46- 95.46	65.46
2.280	2.280 (0.283)	39	905799			39.00- 99.00	69.00
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2175989	50.0000	51.803	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	699568			2.15- 62.15	32.15
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2044251	50.0000	53.326	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	660064			2.29- 62.29	32.29
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1669546	50.0000	52.932	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	492673			0.00- 59.51	29.51
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1641494	50.0000	54.070	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	510794			1.12- 61.12	31.12
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1448503	50.0000	55.867	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1594739			80.10- 140.10	110.10
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1074369	50.0000	54.816	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	1021436			65.07- 125.07	95.07
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	777558	50.0000	50.352	80.00- 120.00	100.00
3.386	3.386 (0.420)	49	221791			0.00- 58.52	28.52
3.386	3.386 (0.420)	66	235947			0.34- 60.34	30.34
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2486676	50.0000	54.298	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1605442			34.56- 94.56	64.56

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	545546	50.0000	54.833	80.00- 120.00	100.00
4.077	4.077 (0.506)	43	108744			0.00- 49.93	19.93
4.077	4.077 (0.506)	46	228599			11.90- 71.90	41.90
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1493574	50.0000	52.450	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	947418			33.43- 93.43	63.43
4.520	4.520 (0.561)	101	2068318			108.48- 168.48	138.48
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2031999	50.0000	53.917	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1160823			27.13- 87.13	57.13
4.575	4.575 (0.568)	98	723443			5.60- 65.60	35.60
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	772213	50.0000	54.781	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2262129			262.94- 322.94	292.94
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2701635	50.0000	53.853	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	607237			0.00- 52.48	22.48
4.907	4.907 (0.609)	59	97529			0.00- 33.61	3.61
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	3530562	50.0000	55.319	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	580717	50.0000	54.648	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	2113664			333.97- 393.97	363.97
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1689054	50.0000	52.414	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	1010161			29.81- 89.81	59.81
5.432	5.432 (0.674)	51	516265			0.57- 60.57	30.57
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1217142	50.0000	50.174	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	385552			1.68- 61.68	31.68
5.764	5.764 (0.715)	41	417118			4.27- 64.27	34.27
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1256929	50.0000	55.069	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	2056986			133.65- 193.65	163.65
5.819	5.819 (0.722)	98	806007			34.13- 94.13	64.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2567435	50.0000	55.316	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1763419			38.68- 98.68	68.68
6.151	6.151 (0.763)	86	368536			0.00- 44.35	14.35
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2257850	50.0000	54.634	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	689178			0.52- 60.52	30.52
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	558891	50.0000	56.036	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	3165141			536.33- 596.33	566.33
7.644	7.644 (0.949)	57	216333			8.71- 68.71	38.71
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1659102	50.0000	53.468	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1120921			37.56- 97.56	67.56
7.617	7.617 (0.945)	98	738627			14.52- 74.52	44.52
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1896605	50.0000	51.073	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	488200			0.00- 55.74	25.74
8.031	8.031 (0.997)	72	523776			0.00- 57.62	27.62
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1918915	50.0000	54.803	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1250945			35.19- 95.19	65.19
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	1907795	50.0000	54.509	80.00- 120.00	100.00
8.418	8.418 (1.045)	99	1202373			33.02- 93.02	63.02
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1555633	50.0000	55.173	80.00- 120.00	100.00
8.391	8.391 (1.041)	56	2428435			126.11- 186.11	156.11
8.391	8.391 (1.041)	41	1335097			55.82- 115.82	85.82
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	286552	50.0000	54.732	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3665493			1249.17-1309.17	1279.17
6.649	6.649 (0.825)	42	271666			64.81- 124.81	94.81
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1598598	50.0000	55.319	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1694265			75.98- 135.98	105.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7055970	50.0000	55.441	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2339543			3.16- 63.16	33.16
9.110	9.110 (1.130)	41	1821506			0.00- 55.82	25.82
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3180389	50.0000	56.459	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	713793			0.00- 52.44	22.44
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	1424249	50.0000	55.189	80.00- 120.00	100.00
9.275	9.275 (0.936)	64	475387			3.38- 63.38	33.38
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	372161	50.0000	59.150	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2908022			751.39- 811.39	781.39
9.469	9.469 (0.955)	71	1125638			272.46- 332.46	302.46
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1232331	50.0000	53.936	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1164486			64.49- 124.49	94.49
10.326	10.326 (1.042)	97	797550			34.72- 94.72	64.72
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1211107	50.0000	54.671	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	836213			39.05- 99.05	69.05
10.824	10.824 (1.092)	41	807190			36.65- 96.65	66.65
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	708188	50.0000	55.044	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	651545			62.00- 122.00	92.00
11.073	11.073 (1.117)	57	203324			0.00- 58.71	28.71
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1775227	50.0000	55.572	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1148990			34.72- 94.72	64.72
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1313299	50.0000	58.006	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	397718			0.28- 60.28	30.28
12.317	12.317 (1.243)	39	962609			43.30- 103.30	73.30
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	1089972	50.0000	59.062	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	3042244			249.11- 309.11	279.11
12.593	12.593 (1.271)	85	356294			2.69- 62.69	32.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3149555	50.0000	54.198	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1878571			29.65- 89.65	59.65
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1282039	50.0000	59.291	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	409698			1.96- 61.96	31.96
13.368	13.368 (0.891)	39	882256			38.82- 98.82	68.82
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1060223	50.0000	54.967	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	674672			33.63- 93.63	63.63
13.644	13.644 (0.910)	83	908942			55.73- 115.73	85.73
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1227356	50.0000	54.744	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	984805			50.24- 110.24	80.24
13.699	13.699 (0.913)	131	962472			48.42- 108.42	78.42
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1509153	50.0000	56.088	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2997890			168.65- 228.65	198.65
14.031	14.031 (0.935)	100	225645			0.00- 44.95	14.95
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1545103	50.0000	57.250	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1216596			48.74- 108.74	78.74
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1614283	50.0000	57.095	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1513177			63.74- 123.74	93.74
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2422375	50.0000	55.002	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	770695			1.82- 61.82	31.82
15.027	15.027 (1.002)	77	1496728			31.79- 91.79	61.79
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1368971	50.0000	57.535	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4502915			298.93- 358.93	328.93
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1683589	50.0000	57.610	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3631728			185.71- 245.71	215.71
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1561970	50.0000	56.206	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3522055			195.49- 255.49	225.49
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2483828	50.0000	60.620	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1301372			22.39- 82.39	52.39
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1400605	50.0000	58.234	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	717301			21.21- 81.21	51.21
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2360572	50.0000	56.324	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1502138			33.63- 93.63	63.63
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4900605	50.0000	59.766	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1443784			0.00- 59.46	29.46
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4416287	50.0000	59.587	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2089426			17.31- 77.31	47.31
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3716466	50.0000	59.111	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1713727			16.11- 76.11	46.11
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2443521	50.0000	54.898	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1563539			33.99- 93.99	63.99
17.764	17.764 (1.184)	111	1008640			11.28- 71.28	41.28
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2963344	50.0000	56.806	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1875291			33.28- 93.28	63.28
17.847	17.847 (1.190)	111	1248063			12.12- 72.12	42.12
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4486516	50.0000	68.302	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	846690			0.00- 48.87	18.87
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2492645	50.0000	53.244	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1561440			32.64- 92.64	62.64
18.206	18.206 (1.214)	111	1035282			11.53- 71.53	41.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1744262	50.0000	52.490	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1638315			63.93- 123.93	93.93
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1242599	50.0000	53.225	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	778986			32.69- 92.69	62.69
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5828519	50.0000	60.396	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1254651			0.00- 51.53	21.53
16.824	16.824 (1.122)	105	202539			0.00- 33.47	3.47
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4756734	50.0000	56.452	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1291385			0.00- 57.15	27.15
16.326	16.326 (1.088)	51	661182			0.00- 43.90	13.90
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6436561	50.0000	58.157	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	794729			0.00- 42.35	12.35
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2293671	50.0000	52.156	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1474529			34.29- 94.29	64.29
3.414	3.414 (0.424)	72	150731			0.00- 36.57	6.57
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	391826	50.0000	52.258	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	2841502			695.19- 755.19	725.19
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1820696	50.0000	55.960	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	909326			19.94- 79.94	49.94
10.547	10.547 (1.064)	55	1974573			78.45- 138.45	108.45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111211.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	355243	0.00
92 1,4-Difluorobenze	1306915	784149	1829681	1306915	0.00
125 Chlorobenzene-d5	1023463	614078	1432848	1023463	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-12nov.b/5111211.d

Date : 12-NOV-2007 15:12

Client ID: Level 5

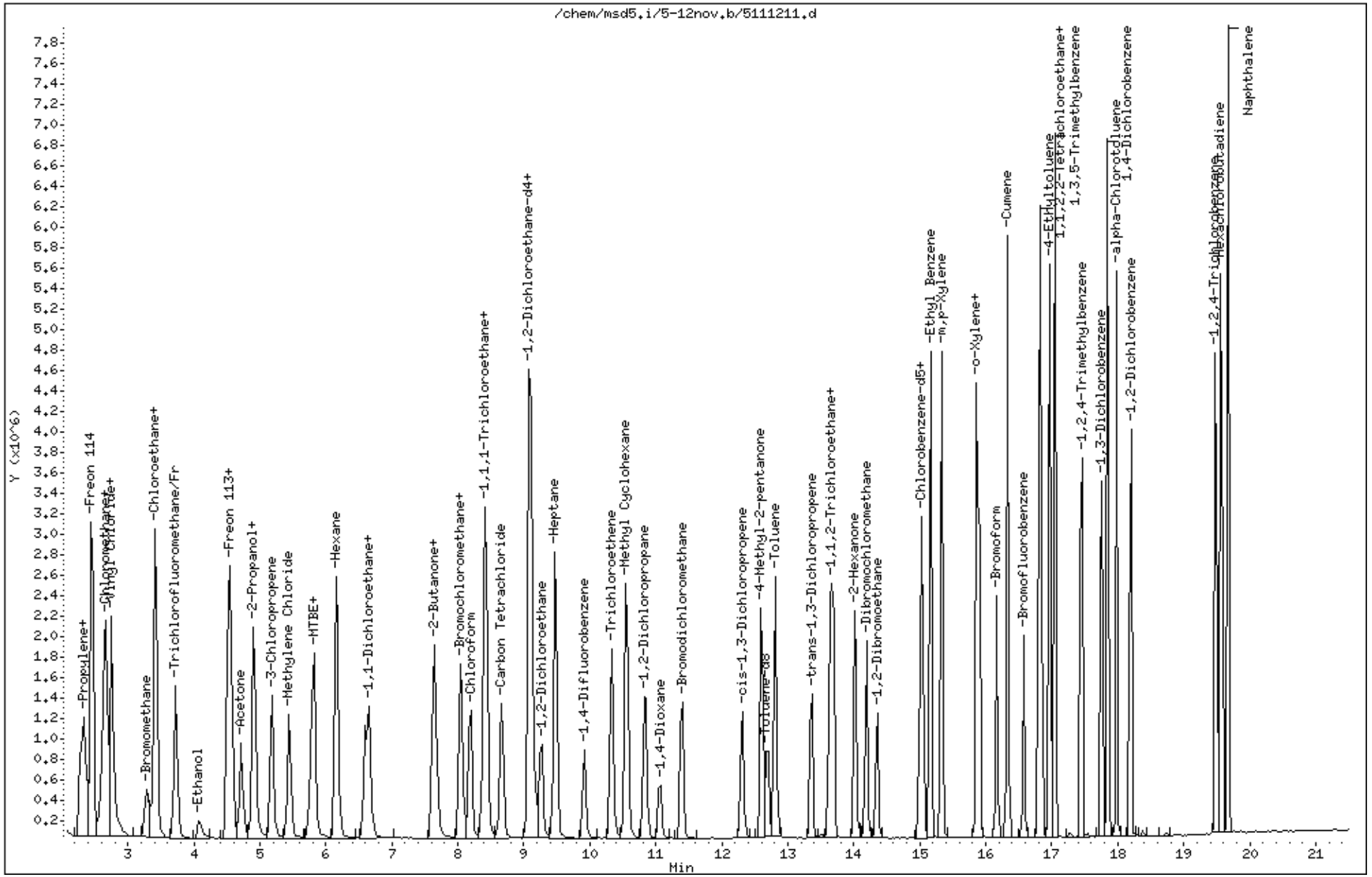
Sample Info: 50mL #1576-89

Instrument: msd5.i

Operator: cb

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111212.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 12-NOV-2007 15:41
Operator : cb Inst ID: msd5.i
Smp Info : 100mL #1576-89
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 15:41 Cal File: 5111212.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	362309	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	281606			42.76- 102.76	77.73
8.059	8.059 (1.000)	49	764495			173.18- 233.18	211.01
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1394945	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	227570			0.00- 46.42	16.31
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1101731	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	629454			0.00- 30.00	57.13
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	556149	25.0000	25.645	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	330557			0.00- 30.00	59.44
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1217578	25.0000	24.723	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	125916			0.00- 30.00	10.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	850099			0.00- 30.00	69.82
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	629857	25.0000	24.502	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1021545			128.71- 188.71	162.19
16.575	16.575 (1.105)	176	610035			68.26- 128.26	96.85
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	2591741	100.000	102.48	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	1728444			0.00- 30.00	66.69
2.280	2.280 (0.283)	39	1780659			0.00- 30.00	68.71
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.335 (0.290)	85	4936969	100.000	115.24	70.00- 130.00	100.00
2.335	2.335 (0.290)	87	1597861			0.00- 30.00	32.37
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	4042630	100.000	103.40	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1282118			2.29- 62.29	31.71
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	3405993	100.000	105.88	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	1041620			0.00- 30.00	30.58
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	3220830	100.000	104.02	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	1008251			0.00- 30.00	31.30
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	2935038	100.000	110.99	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	2947538			0.00- 30.00	100.43
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	2153199	100.000	107.72	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	2023282			65.07- 125.07	93.97
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1565896	100.000	99.424	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	445169			0.00- 30.00	28.43
3.414	3.414 (0.424)	66	461281			0.00- 30.00	29.46
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	4911495	100.000	105.15	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	3183710			34.56- 94.56	64.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	1045340	100.000	103.02	70.00- 130.00	100.00
4.077	4.077 (0.506)	43	190328			0.00- 30.00	18.21
4.105	4.105 (0.509)	46	413290			0.00- 30.00	39.54
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	3009266	100.000	103.61	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1866918			33.43- 93.43	62.04
4.520	4.520 (0.561)	101	4188633			108.48- 168.48	139.19
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	4078882	100.000	106.12	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	2277835			27.13- 87.13	55.84
4.575	4.575 (0.568)	98	1453379			5.60- 65.60	35.63
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	1567044	100.000	109.00	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	4681900			0.00- 30.00	298.77
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	5612024	100.000	109.69	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	1154075			0.00- 30.00	20.56
4.935	4.935 (0.612)	59	198977			0.00- 30.00	3.55
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	7167211	100.000	110.11	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	1153842	100.000	106.46	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	4405012			0.00- 30.00	381.77
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	3421033	100.000	104.09	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	1995352			29.81- 89.81	58.33
5.432	5.432 (0.674)	51	1046132			0.00- 30.00	30.58
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	2289440	100.000	92.537	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	733908			1.68- 61.68	32.06
5.764	5.764 (0.715)	41	781870			0.00- 30.00	34.15
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	2568670	100.000	110.34	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	4104175			133.65- 193.65	159.78
5.819	5.819 (0.722)	98	1632808			0.00- 30.00	63.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	5269145	100.000	111.31	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3621749			0.00- 30.00	68.74
6.151	6.151 (0.763)	86	743039			0.00- 30.00	14.10
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	4598639	100.000	109.10	70.00- 130.00	100.00
6.593	6.593 (0.818)	65	1401480			0.52- 60.52	30.48
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	1140456	100.000	112.12	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	6545068			536.33- 596.33	573.90
7.644	7.644 (0.949)	57	442595			0.00- 30.00	38.81
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	3372749	100.000	106.57	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	2273619			37.56- 97.56	67.41
7.617	7.617 (0.945)	98	1458637			14.52- 74.52	43.25
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	3862336	100.000	101.98	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	1005813			0.00- 55.74	26.04
8.031	8.031 (0.997)	72	1059045			0.00- 30.00	27.42
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	3865056	100.000	108.23	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	2482837			35.19- 95.19	64.24
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	3815620	100.000	106.89	70.00- 130.00	100.00
8.418	8.418 (1.045)	99	2483612			33.02- 93.02	65.09
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	3142908	100.000	109.30	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	5009806			126.11- 186.11	159.40
8.391	8.391 (1.041)	41	2756840			55.82- 115.82	87.72
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	618984	100.000	115.92	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	7909568			0.00- 30.00	1277.83
6.649	6.649 (0.825)	42	576336			0.00- 30.00	93.11
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	3324674	100.000	112.80	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	3444612			75.98- 135.98	103.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	14667384	100.000	113.00	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	4774429			0.00- 30.00	32.55
9.110	9.110 (1.130)	41	3713992			0.00- 30.00	25.32
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	6443717	100.000	107.17	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1479096			0.00- 30.00	22.95
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	2980908	100.000	108.22	70.00- 130.00	100.00
9.275	9.275 (0.936)	64	935537			0.00- 30.00	31.38
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	768289	100.000	114.40	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	5921486			0.00- 30.00	770.74
9.469	9.469 (0.955)	71	2319652			0.00- 30.00	301.92
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2531522	100.000	103.80	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2370571			64.49- 124.49	93.64
10.326	10.326 (1.042)	97	1632142			34.72- 94.72	64.47
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.851	10.851 (1.095)	63	2444067	100.000	103.36	70.00- 130.00	100.00
10.851	10.851 (1.095)	62	1742633			39.05- 99.05	71.30
10.824	10.824 (1.092)	41	1706739			36.65- 96.65	69.83
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1444101	100.000	105.16	70.00- 130.00	100.00
11.045	11.045 (1.114)	58	1358709			62.00- 122.00	94.09
11.045	11.045 (1.114)	57	421008			0.00- 30.00	29.15
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.404 (1.151)	83	3686686	100.000	108.12	70.00- 130.00	100.00
11.404	11.404 (1.151)	85	2353475			34.72- 94.72	63.84
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2762200	100.000	114.30	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	825604			0.28- 60.28	29.89
12.289	12.289 (1.240)	39	1995795			43.30- 103.30	72.25
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	2267876	100.000	115.13	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	6376954			0.00- 30.00	281.19
12.593	12.593 (1.271)	85	737054			0.00- 30.00	32.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	6367014	100.000	102.65	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	3757228			29.65- 89.65	59.01
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2753871	100.000	118.31	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	862721			1.96- 61.96	31.33
13.340	13.340 (0.889)	39	1883829			38.82- 98.82	68.41
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	2175838	100.000	104.79	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1345223			33.63- 93.63	61.83
13.644	13.644 (0.910)	83	1807881			55.73- 115.73	83.09
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	2471030	100.000	102.39	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	1991710			50.24- 110.24	80.60
13.699	13.699 (0.913)	131	1942785			48.42- 108.42	78.62
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	3181008	100.000	109.82	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	6436176			168.65- 228.65	202.33
14.031	14.031 (0.935)	100	503002			0.00- 30.00	15.81
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3253162	100.000	111.97	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2514914			0.00- 30.00	77.31
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	3320619	100.000	109.10	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	3107302			63.74- 123.74	93.58
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	4886903	100.000	103.08	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1546858			1.82- 61.82	31.65
15.027	15.027 (1.002)	77	3017918			31.79- 91.79	61.76
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2675495	100.000	104.46	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	9072718			0.00- 30.00	339.10
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	3435495	100.000	109.20	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	7334004			0.00- 30.00	213.48
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	3218448	100.000	107.58	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	7280732			195.49- 255.49	226.22
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	5132999	100.000	116.38	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	2701016			22.39- 82.39	52.62
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	2829830	100.000	109.30	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1476899			21.21- 81.21	52.19
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	4764204	100.000	105.60	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	3047016			33.63- 93.63	63.96
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	10073530	100.000	114.13	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	2874204			0.00- 59.46	28.53
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	9098092	100.000	114.04	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	4188565			0.00- 30.00	46.04
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	7592274	100.000	112.18	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	3445930			16.11- 76.11	45.39
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	4936158	100.000	103.02	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	3149621			0.00- 30.00	63.81
17.764	17.764 (1.184)	111	2021086			0.00- 30.00	40.94
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	6039588	100.000	107.55	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	3761986			0.00- 30.00	62.29
17.847	17.847 (1.190)	111	2601264			0.00- 30.00	43.07
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	9864888	100.000	139.51	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1849741			0.00- 30.00	18.75
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	5182397	100.000	102.84	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	3320571			32.64- 92.64	64.07
18.206	18.206 (1.214)	111	2125741			11.53- 71.53	41.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	3562078	100.000	99.579	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	3343294			63.93- 123.93	93.86
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2481075	100.000	98.724	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1537358			32.69- 92.69	61.96
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	11634048	100.000	111.99	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	2469759			0.00- 30.00	21.23
16.824	16.824 (1.122)	105	398750			0.00- 30.00	3.43
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	9672736	100.000	106.64	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2545654			0.00- 30.00	26.32
16.326	16.326 (1.088)	51	1381671			0.00- 30.00	14.28
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	13517916	100.000	113.46	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1684760			0.00- 30.00	12.46
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	4628579	100.000	103.20	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	2949004			0.00- 30.00	63.71
3.414	3.414 (0.424)	72	289136			0.00- 30.00	6.25
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	775812	100.000	101.45	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	5714173			0.00- 30.00	736.54
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	3726328	100.000	107.30	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	1818897			0.00- 30.00	48.81
10.547	10.547 (1.064)	55	4140939			0.00- 30.00	111.13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111212.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	362309	1.99
92 1,4-Difluorobenze	1306915	784149	1829681	1394945	6.74
125 Chlorobenzene-d5	1023463	614078	1432848	1101731	7.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-12nov.b/5111212.d

Date : 12-NOV-2007 15:41

Client ID: Level 6

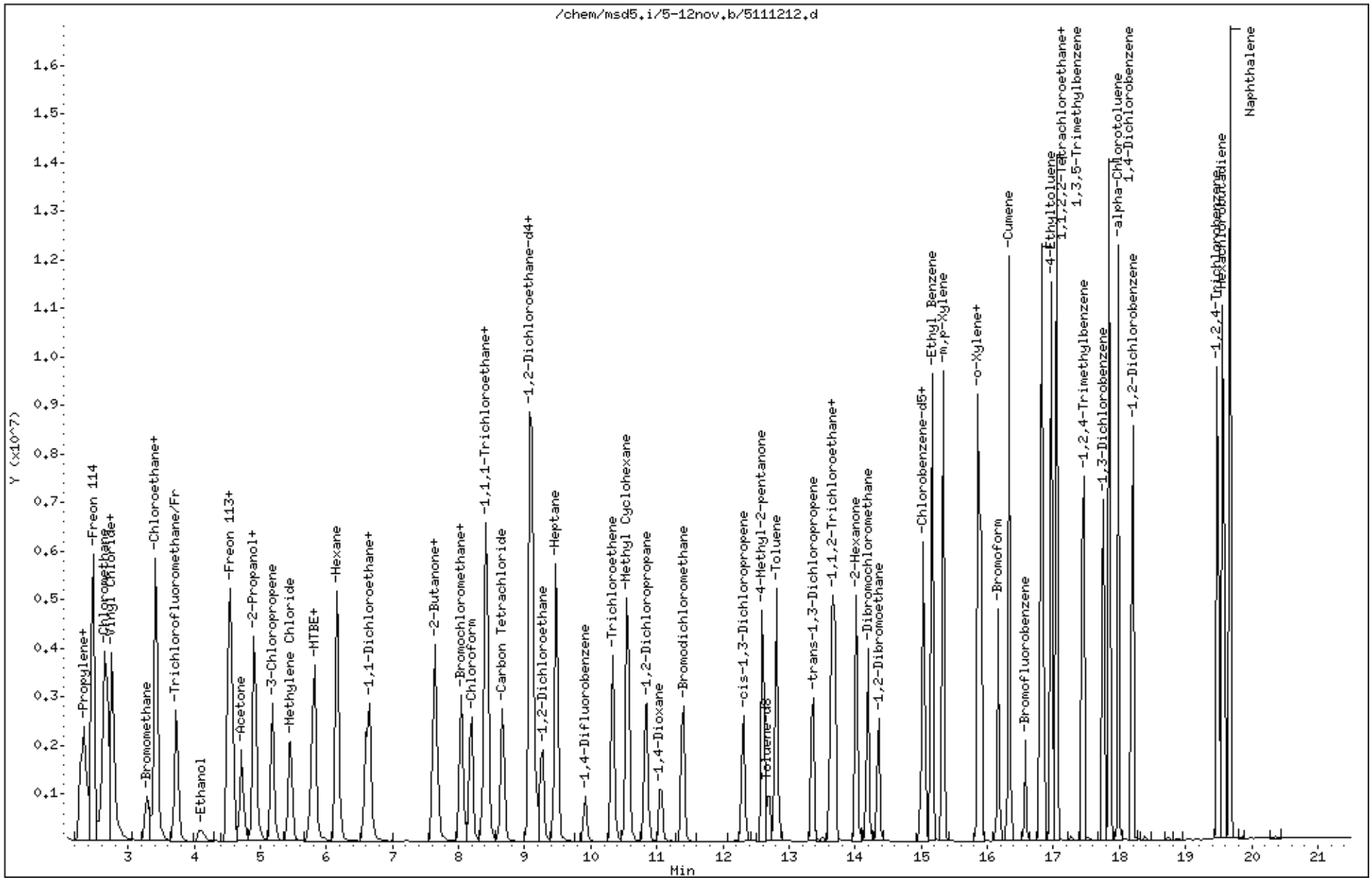
Sample Info: 100mL #1576-89

Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27nov.b/5112707.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 27-NOV-2007 12:08
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1443-374
Misc Info : 200ppbv
Comment :
Method : /chem/msd5.i/5-27nov.b/t14qn12c.m
Meth Date : 27-Nov-2007 15:31 cbond Quant Type: ISTD
Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	292008	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	228611			47.29- 107.29	78.29
8.059	8.059 (1.000)	49	634506			183.28- 243.28	217.29
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1011912	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	161742			0.00- 46.71	15.98
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	815306	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	457661			0.00- 30.00	56.13
7 Isobutane					CAS #: 75-28-5		
2.502	2.502 (0.310)	43	10956154	200.000	204.54	70.00- 130.00	100.00(A)
2.502	2.502 (0.310)	42	3649588			0.00- 30.00	33.31
2.502	2.502 (0.310)	58	324251			0.00- 30.00	2.96
18 Pentane					CAS #: 109-66-0		
3.801	3.801 (0.472)	43	11879225	200.000	217.13	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.801	3.801 (0.472)	57	1697893			0.00- 30.00	14.29
3.801	3.801 (0.472)	72	987894			0.00- 30.00	8.32
25 Acrolein					CAS #: 107-02-8		
4.492	4.492 (0.557)	55	1613223	200.000	236.63	70.00- 130.00	100.00(A)
4.492	4.492 (0.557)	56	2291472			0.00- 30.00	142.04
39 Acrylonitrile					CAS #: 107-13-1		
5.930	5.930 (0.736)	53	4870715	200.000	226.34	70.00- 130.00	100.00(A)
5.930	5.930 (0.736)	52	3665944			0.00- 30.00	75.27
42 1-Pentene					CAS #: 109-67-1		
3.746	3.746 (0.465)	55	6311026	200.000	213.79	70.00- 130.00	100.00(TA)
3.746	3.746 (0.465)	42	8977985			0.00- 30.00	142.26
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
44 Ethyl Ether					CAS #: 60-29-7		
4.160	4.160 (0.516)	74	2422443	200.000	216.92	70.00- 130.00	100.00(TA)
4.160	4.160 (0.516)	59	4103622			0.00- 30.00	169.40
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
53 Iodomethane					CAS #: 74-88-4		
4.852	4.852 (0.602)	142	8300306	200.000	214.25	70.00- 130.00	100.00(A)
4.852	4.852 (0.602)	127	2702327			0.00- 30.00	32.56
58 1-Hexene					CAS #: 592-41-6		
6.041	6.041 (0.750)	55	3937252	200.000	230.04	70.00- 130.00	100.00(A)
6.041	6.041 (0.750)	41	6021255			0.00- 30.00	152.93
6.041	6.041 (0.750)	84	1242160			0.00- 30.00	31.55
62 Methyl Acrylate					CAS #: 96-33-3		
7.783	7.783 (0.966)	55	8563472	200.000	249.39	70.00- 130.00	100.00(A)
7.783	7.783 (0.966)	85	1022521			0.00- 30.00	11.94
7.783	7.783 (0.966)	58	775887			0.00- 30.00	9.06
86 2-Pentanone					CAS #: 107-87-9		
10.796	10.796 (1.089)	43	12448831	200.000	246.92	70.00- 130.00	100.00(A)
10.796	10.796 (1.089)	58	864970			0.00- 30.00	6.95
10.796	10.796 (1.089)	86	1531382			0.00- 30.00	12.30
88 Ethyl Acrylate					CAS #: 140-88-5		
10.603	10.603 (1.070)	55	9381427	200.000	241.38	70.00- 130.00	100.00(A)
10.630	10.630 (1.073)	99	504390			0.00- 30.00	5.38
10.603	10.603 (1.070)	45	999353			0.00- 30.00	10.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
95 Dibromomethane					CAS #: 74-95-3		
11.073	11.073 (1.117)	174	2700745	200.000	213.73	70.00- 130.00	100.00(A)
11.073	11.073 (1.117)	93	3037775			0.00- 30.00	112.48
11.073	11.073 (1.117)	95	2547353			0.00- 30.00	94.32
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.117)	41	6484005	200.000	239.52	70.00- 130.00	100.00(A)
11.073	11.073 (1.117)	69	3076497			0.00- 30.00	47.45
11.073	11.073 (1.117)	100	1197569			0.00- 30.00	18.47
112 Alphamethylstyrene					CAS #: 98-83-9		
17.294	17.294 (1.153)	118	5959126	200.000	253.24	70.00- 130.00	100.00(A)
17.294	17.294 (1.153)	103	3515220			0.00- 30.00	58.99
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.709	17.709 (1.181)	93	6541008	200.000	235.52	70.00- 130.00	100.00(A)
17.709	17.709 (1.181)	95	2074279			0.00- 30.00	31.71
17.709	17.709 (1.181)	63	5507058			0.00- 30.00	84.19
127 Nonane					CAS #: 111-84-2		
15.303	15.303 (1.020)	43	10713070	200.000	234.42	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	57	8243126			0.00- 30.00	76.94
15.331	15.331 (1.022)	85	2319331			0.00- 30.00	21.65

QC Flag Legend

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

Report Date: 27-Nov-2007 15:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5112707.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-27nov.b/t14qn12c.m
Misc Info: 200ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 09:21
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	351932	211159	492705	292008	-17.03
92 1,4-Difluorobenze	1207474	724484	1690464	1011912	-16.20
125 Chlorobenzene-d5	945809	567485	1324133	815306	-13.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

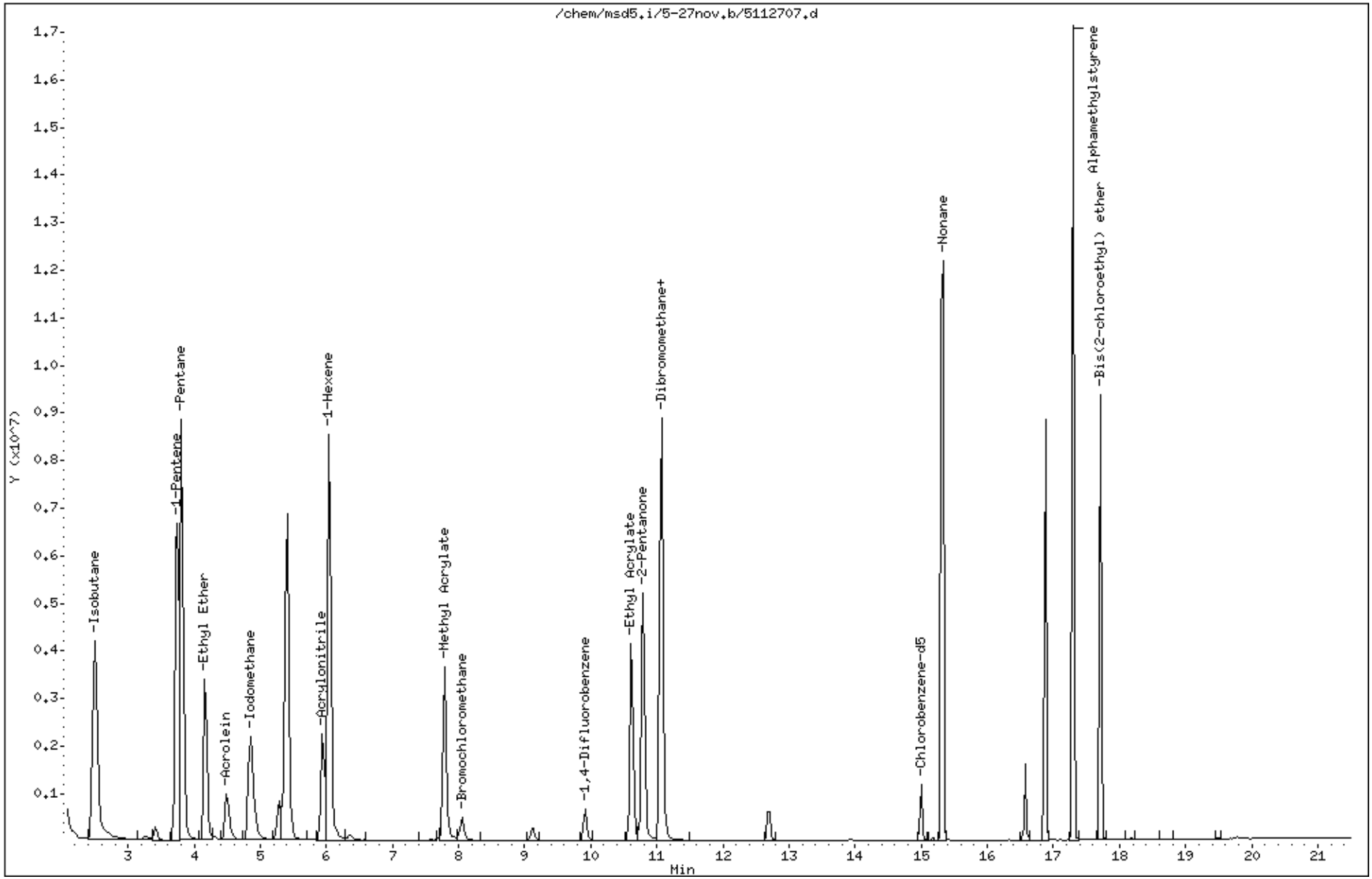
0151

Data File: /chem/msd5.i/5-27nov.b/5112707.d
Date : 27-NOV-2007 12:08
Client ID: Level 7
Sample Info: 200mL #1443-374

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-19nov.b/5111904.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 19-NOV-2007 02:57
Operator : sjr Inst ID: msd5.i
Smp Info : 200mL #1487-405
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-19nov.b/t14qn12b.m
Meth Date : 20-Nov-2007 15:39 ctaylor Quant Type: ISTD
Cal Date : 19-NOV-2007 02:57 Cal File: 5111904.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	343138	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	270425			47.38- 107.38		78.81
8.059	8.059 (1.000)	49	766186			197.25- 257.25		223.29
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1331702	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	197405			0.00- 47.51		14.82
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	994154	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	589200			0.00- 30.00		59.27
1 Freon134a					CAS #: 811-97-2			
2.225	2.225 (0.276)	83	2822475	200.000	198.64	70.00- 130.00		100.00
2.197	2.197 (0.273)	69	12292152			0.00- 30.00		435.51
3 Freon 152a					CAS #: 75-37-6			
2.280	2.280 (0.283)	65	2698998	200.000	211.17	70.00- 130.00		100.00(A)
2.363	2.363 (0.293)	51	13971311			0.00- 30.00		517.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.363	2.363 (0.293)	67	765522	200.000	193.31	70.00- 130.00	100.00
2.363	2.363 (0.293)	51	13848942			0.00- 30.00	1809.08
5 Freon142b					CAS #: 75-68-3		
2.557	2.557 (0.317)	65	5656340	200.000	221.99	70.00- 130.00	100.00(A)
2.557	2.557 (0.317)	45	1828730			0.00- 30.00	32.33
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.746	3.746 (0.465)	67	6310190	200.000	205.50	70.00- 130.00	100.00(TA)
3.746	3.746 (0.465)	69	1881367			0.00- 30.00	29.81
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
22 Freon123a					CAS #: 354-23-4		
4.299	4.299 (0.533)	117	3567672	200.000	209.65	70.00- 130.00	100.00(A)
4.299	4.299 (0.533)	67	5067373			0.00- 30.00	142.04
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.547)	83	6759738	200.000	211.63	70.00- 130.00	100.00(A)
4.409	4.409 (0.547)	133	1059607			0.00- 30.00	15.68
4.409	4.409 (0.547)	85	4429960			0.00- 30.00	65.53
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	2326170	200.000	130.45	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	747973			0.00- 30.00	32.15
5.571	5.571 (0.691)	57	252239			0.00- 30.00	10.84
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	19030534	200.000	221.98	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	87	3450126			0.00- 30.00	18.13
6.594	6.594 (0.818)	59	1842568			0.00- 30.00	9.68
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	6528854	200.000	198.99	70.00- 130.00	100.00
7.202	7.202 (0.894)	87	2135083			0.00- 30.00	32.70
7.202	7.202 (0.894)	41	1374641			0.00- 30.00	21.05
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.955)	70	927220	200.000	231.95	70.00- 130.00	100.00(A)
7.700	7.700 (0.955)	43	11648831			0.00- 30.00	1256.32
7.700	7.700 (0.955)	61	1400945			0.00- 30.00	151.09
64 1-Propanol					CAS #: 71-23-8		
6.787	6.787 (0.842)	42	957247	200.000	267.57	70.00- 130.00	100.00(A)
6.787	6.787 (0.842)	59	954733			0.00- 30.00	99.74
6.787	6.787 (0.842)	41	583962			0.00- 30.00	61.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
76 Isobutanol					CAS #: 78-83-1		
9.082	9.082 (0.916)	43	4496367	200.000	234.43	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	41	3057760			0.00- 30.00	68.01
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.276	9.276 (1.151)	73	4894950	200.000	186.00	70.00- 130.00	100.00
9.276	9.276 (1.151)	87	1188343			0.00- 30.00	24.28
9.276	9.276 (1.151)	55	2091139			0.00- 30.00	42.72
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	4685613	200.000	232.17	70.00- 130.00	100.00(A)
14.197	14.197 (1.432)	73	1304433			0.00- 30.00	27.84
14.197	14.197 (1.432)	43	12061971			0.00- 30.00	257.43
131 2-Heptanone					CAS #: 110-43-0		
16.077	16.077 (1.072)	58	7288423	200.000	246.65	70.00- 130.00	100.00(A)
16.077	16.077 (1.072)	43	12754387			0.00- 30.00	175.00
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	5982602	200.000	226.08	70.00- 130.00	100.00(A)
16.520	16.520 (1.101)	98	1904727			0.00- 30.00	31.84
16.520	16.520 (1.101)	42	4318876			0.00- 30.00	72.19
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	15014507	200.000	215.13	70.00- 130.00	100.00(A)
17.211	17.211 (1.147)	85	9264937			30.87- 90.87	61.71

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111904.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd5.i/5-19nov.b/t14qn12b.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 19-NOV-2007
Calibration Time: 02:24
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	320182	192109	448255	343138	7.17
92 1,4-Difluorobenze	1222930	733758	1712102	1331702	8.89
125 Chlorobenzene-d5	969063	581438	1356688	994154	2.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

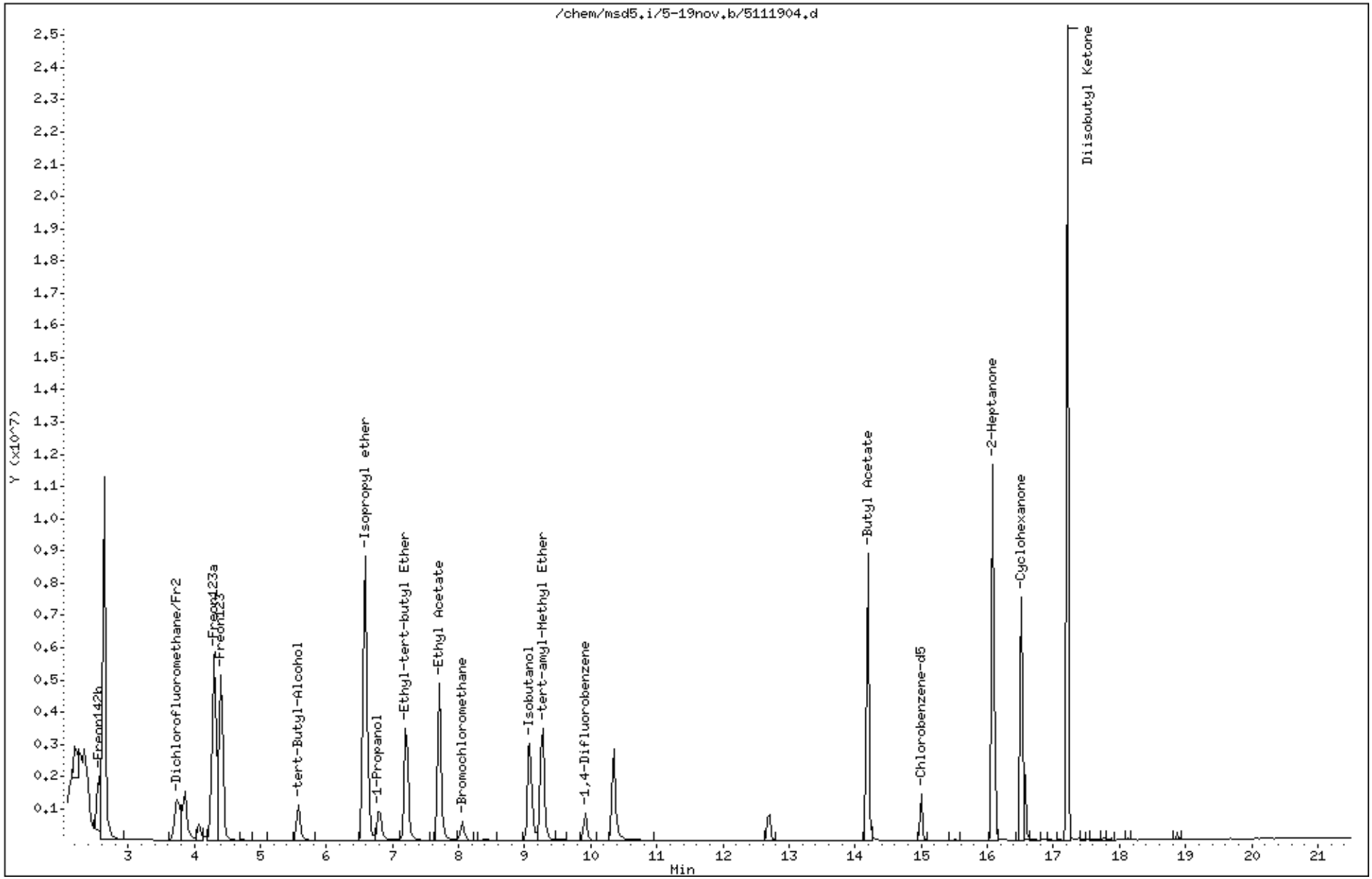
0156

Data File: /chem/msd5.i/5-19nov.b/5111904.d
Date : 19-NOV-2007 02:57
Client ID: Level 7
Sample Info: 200mL #1487-405

Instrument: msd5.i

Operator: sjr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111218.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 12-NOV-2007 20:20
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1487-404
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:25 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 20:20 Cal File: 5111218.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp20a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	380418	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	291580			47.79- 107.79	76.65
8.031	8.031 (1.000)	49	799092			186.23- 246.23	210.06
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1363143	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	229507			0.00- 46.01	16.84
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1062928	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	616683			0.00- 30.00	58.02
33 Methyl Acetate					CAS #: 79-20-9		
5.211	5.211 (0.647)	43	12259393	200.000	217.95	70.00- 130.00	100.00(A)
5.211	5.211 (0.647)	74	2047380			0.00- 30.00	16.70
5.211	5.211 (0.647)	59	866635			0.00- 30.00	7.07
52 Chloroprene					CAS #: 126-99-8		
6.677	6.677 (0.828)	53	10072516	200.000	223.69	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
52 Chloroprene (continued)							
6.677	6.677 (0.828)	88	4358164			12.60- 72.60	43.27
6.677	6.677 (0.828)	50	2391088			0.00- 52.95	23.74
59 1,3-Dichloropropane					CAS #: 142-28-9		
13.893	13.893 (1.402)	76	5643367	200.000	217.03	70.00- 130.00	100.00(A)
13.893	13.893 (1.402)	41	5633681			68.80- 128.80	99.83
13.893	13.893 (1.402)	78	1790220			0.00- 30.00	31.72
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.561	7.561 (0.938)	77	5849796	200.000	222.24	70.00- 130.00	100.00(A)
7.561	7.561 (0.938)	79	1862935			2.86- 62.86	31.85
7.561	7.561 (0.938)	97	1314683			0.00- 30.00	22.47
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.723	8.723 (1.082)	110	2156285	200.000	215.16	70.00- 130.00	100.00(A)
8.723	8.723 (1.082)	75	5802969			0.00- 30.00	269.12
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.193	15.193 (1.013)	131	4139143	200.000	217.85	70.00- 130.00	100.00(A)
15.193	15.193 (1.013)	117	2866073			0.00- 30.00	69.24
15.165	15.165 (1.011)	95	1719696			0.00- 30.00	41.55
137 Bromobenzene					CAS #: 108-86-1		
16.741	16.741 (1.116)	156	4901390	200.000	208.50	70.00- 130.00	100.00(A)
16.741	16.741 (1.116)	77	9195353			151.57- 211.57	187.61
16.741	16.741 (1.116)	158	4720437			0.00- 30.00	96.31
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.852	16.852 (1.123)	110	2719560	200.000	210.85	70.00- 130.00	100.00(A)
16.852	16.852 (1.123)	61	2348836			0.00- 30.00	86.37
16.852	16.852 (1.123)	112	1719588			0.00- 30.00	63.23
140 2-Chlorotoluene					CAS #: 95-49-8		
16.962	16.962 (1.131)	126	4375302	200.000	222.05	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	91	14275120			287.64- 347.64	326.27
16.962	16.962 (1.131)	65	1397486			0.00- 30.00	31.94
143 4-Chlorotoluene					CAS #: 106-43-4		
17.100	17.100 (1.140)	126	4466011	200.000	220.88	70.00- 130.00	100.00(A)
17.100	17.100 (1.140)	91	14535401			287.83- 347.83	325.47
17.100	17.100 (1.140)	63	1857348			0.00- 30.00	41.59
149 tert-Butylbenzene					CAS #: 98-06-6		
17.377	17.377 (1.159)	119	18494291	200.000	226.11	70.00- 130.00	100.00(A)
17.377	17.377 (1.159)	134	3933766			0.00- 53.69	21.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
149 tert-Butylbenzene (continued)							
17.377	17.377 (1.159)	91	11227307			0.00- 30.00	60.71
150 Pentachloroethane					CAS #: 76-01-7		
17.460	17.460 (1.164)	167	3427155	200.000	238.56	70.00- 130.00	100.00(A)
17.432	17.432 (1.162)	117	3887356			0.00- 30.00	113.43
151 sec-Butylbenzene					CAS #: 135-98-8		
17.598	17.598 (1.173)	105	20306305	200.000	209.14	70.00- 130.00	100.00(A)
17.598	17.598 (1.173)	134	4363727			0.00- 49.07	21.49
17.598	17.598 (1.173)	91	3819852			0.00- 30.00	18.81
153 p-Cymene					CAS #: 99-87-6		
17.764	17.764 (1.184)	134	4947028	200.000	235.40	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	119	18479267			341.15- 401.15	373.54
17.764	17.764 (1.184)	91	4493393			0.00- 30.00	90.83
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.875	17.875 (1.192)	120	6956133	200.000	230.47	70.00- 130.00	100.00(A)
17.875	17.875 (1.192)	105	16213534			197.36- 257.36	233.08
17.875	17.875 (1.192)	77	1812902			0.00- 30.00	26.06
158 Butylbenzene					CAS #: 104-51-8		
18.151	18.151 (1.210)	134	4435716	200.000	234.08	70.00- 130.00	100.00(A)
18.123	18.123 (1.208)	91	18354905			393.82- 453.82	413.80
18.123	18.123 (1.208)	92	10202168			0.00- 30.00	230.00
160 Hexachloroethane					CAS #: 67-72-1		
18.372	18.372 (1.225)	117	6549758	200.000	233.67	70.00- 130.00	100.00(A)
18.400	18.400 (1.227)	201	4183292			0.00- 30.00	63.87
	Sum of Peak Amounts =		234				
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.870	18.870 (1.258)	157	4780713	200.000	246.99	70.00- 130.00	100.00(A)
18.870	18.870 (1.258)	75	5676066			92.49- 152.49	118.73
18.870	18.870 (1.258)	155	3766945			0.00- 30.00	78.79
166 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
19.865	19.865 (1.324)	180	9209537	200.000	219.56	70.00- 130.00	100.00(A)
19.865	19.865 (1.324)	182	8636309			0.00- 30.00	93.78
19.865	19.865 (1.324)	145	3064881			0.00- 30.00	33.28
192 Cyclopentene					CAS #: 142-29-0		
5.211	5.211 (0.647)	67	11768190	200.000	214.19	70.00- 130.00	100.00(A)
5.211	5.211 (0.647)	68	4482374			0.00- 30.00	38.09
5.211	5.211 (0.647)	53	2799572			0.00- 30.00	23.79

QC Flag Legend

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

Report Date: 13-Nov-2007 13:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111218.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 19:48
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	345466	207280	483652	380418	10.12
92 1,4-Difluorobenze	1312181	787309	1837053	1363143	3.88
125 Chlorobenzene-d5	1008754	605252	1412256	1062928	5.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

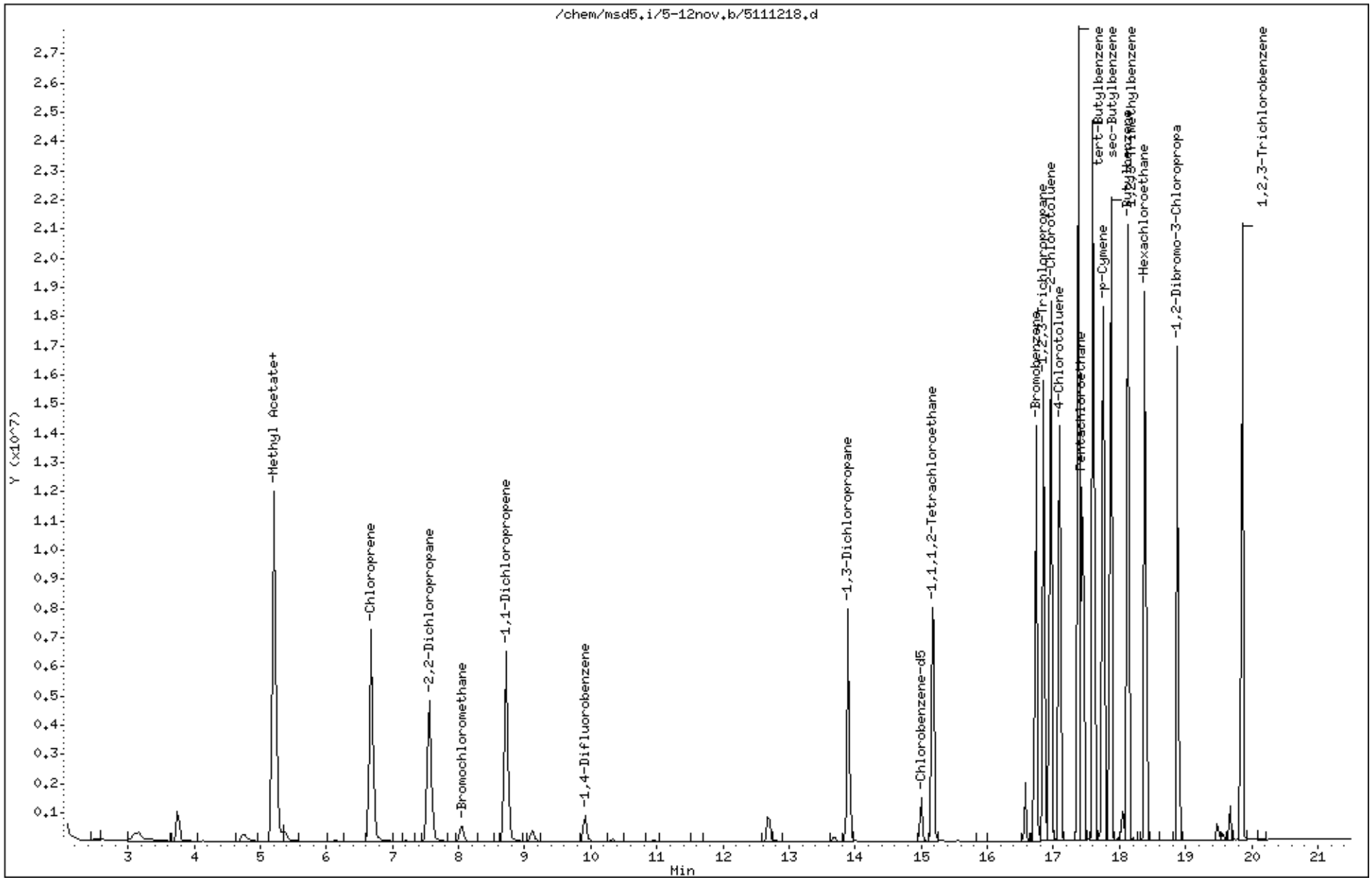
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0162

Data File: /chem/msd5.i/5-12nov.b/5111218.d
Date : 12-NOV-2007 20:20
Client ID: Level 7
Sample Info: 200mL #1487-404

Instrument: msd5.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111213.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 12-NOV-2007 16:13
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1576-89
Misc Info : 200ppbv
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD
Cal Date : 12-NOV-2007 16:13 Cal File: 5111213.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	379428	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	296624			42.76- 102.76	78.18
8.059	8.059 (1.000)	49	802235			173.18- 233.18	211.43
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1473899	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	238341			0.00- 46.42	16.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1158184	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	685651			0.00- 30.00	59.20
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	596904	25.0000	26.283	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	414836			0.00- 30.00	69.50
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1336408	25.0000	25.682	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	133913			0.00- 30.00	10.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	940191			0.00- 30.00	70.35
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	686157	25.0000	25.391	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1078230			128.71- 188.71	157.14
16.575	16.575 (1.105)	176	661942			68.26- 128.26	96.47
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	5376726	200.000	203.02	70.00- 130.00	100.00(A)
2.280	2.280 (0.283)	42	3639937			0.00- 30.00	67.70
2.280	2.280 (0.283)	39	3684723			0.00- 30.00	68.53
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	9953066	200.000	221.84	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	87	3204362			0.00- 30.00	32.19
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	8125587	200.000	198.45	70.00- 130.00	100.00
2.502	2.502 (0.310)	137	2547872			2.29- 62.29	31.36
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	6779536	200.000	201.24	70.00- 130.00	100.00(A)
2.640	2.640 (0.328)	52	2029289			0.00- 30.00	29.93
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	6453329	200.000	199.02	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	2007029			0.00- 30.00	31.10
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	5891794	200.000	212.76	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	39	6841437			0.00- 30.00	116.12
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	4372221	200.000	208.86	70.00- 130.00	100.00(A)
3.276	3.276 (0.406)	96	4138619			65.07- 125.07	94.66
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	3239683	200.000	196.42	70.00- 130.00	100.00
3.442	3.442 (0.427)	49	869249			0.00- 30.00	26.83
3.442	3.442 (0.427)	66	945867			0.00- 30.00	29.20
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	9929412	200.000	202.99	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	6390218			34.56- 94.56	64.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	1967404	200.000	185.14	70.00- 130.00	100.00
4.133	4.133 (0.513)	43	362712			0.00- 30.00	18.44
4.133	4.133 (0.513)	46	816407			0.00- 30.00	41.50
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	6057243	200.000	199.15	70.00- 130.00	100.00
4.548	4.548 (0.564)	153	3827738			33.43- 93.43	63.19
4.520	4.520 (0.561)	101	8431386			108.48- 168.48	139.20
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	8478221	200.000	210.62	70.00- 130.00	100.00(A)
4.575	4.575 (0.568)	96	4763041			27.13- 87.13	56.18
4.575	4.575 (0.568)	98	3012899			5.60- 65.60	35.54
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	3222078	200.000	214.00	70.00- 130.00	100.00(A)
4.713	4.713 (0.585)	43	9448686			0.00- 30.00	293.25
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	11561568	200.000	215.77	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2331834			0.00- 30.00	20.17
4.935	4.935 (0.612)	59	426669			0.00- 30.00	3.69
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	14564959	200.000	213.66	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	2321881	200.000	204.57	70.00- 130.00	100.00(A)
5.184	5.184 (0.643)	41	8708129			0.00- 30.00	375.05
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	6972846	200.000	202.58	70.00- 130.00	100.00(A)
5.460	5.460 (0.678)	84	4089078			29.81- 89.81	58.64
5.460	5.460 (0.678)	51	2112801			0.00- 30.00	30.30
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	3902079	200.000	150.60	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	1232072			1.68- 61.68	31.57
5.764	5.764 (0.715)	41	1256752			0.00- 30.00	32.21
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	5269287	200.000	216.15	70.00- 130.00	100.00(A)
5.819	5.819 (0.722)	61	8491435			133.65- 193.65	161.15
5.819	5.819 (0.722)	98	3350199			0.00- 30.00	63.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	10867838	200.000	219.22	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	7427006			0.00- 30.00	68.34
6.179	6.179 (0.767)	86	1502171			0.00- 30.00	13.82
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	9466761	200.000	214.47	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	65	2873484			0.52- 60.52	30.35
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	2401975	200.000	225.48	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	43	13592738			536.33- 596.33	565.90
7.644	7.644 (0.949)	57	970844			0.00- 30.00	40.42
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	7018804	200.000	211.78	70.00- 130.00	100.00(A)
7.617	7.617 (0.945)	96	4681675			37.56- 97.56	66.70
7.617	7.617 (0.945)	98	2974274			14.52- 74.52	42.38
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	7952915	200.000	200.51	70.00- 130.00	100.00(A)
8.031	8.031 (0.997)	71	2097817			0.00- 55.74	26.38
8.031	8.031 (0.997)	72	2268304			0.00- 30.00	28.52
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	7997810	200.000	213.85	70.00- 130.00	100.00(A)
8.197	8.197 (1.017)	85	5151553			35.19- 95.19	64.41
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	7928397	200.000	212.09	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	5100696			33.02- 93.02	64.33
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	6469207	200.000	214.82	70.00- 130.00	100.00(A)
8.418	8.418 (1.045)	56	10311383			126.11- 186.11	159.39
8.391	8.391 (1.041)	41	5608294			55.82- 115.82	86.69
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	1313244	200.000	234.84	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	16877699			0.00- 30.00	1285.19
6.649	6.649 (0.825)	42	1237902			0.00- 30.00	94.26
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	6929597	200.000	224.51	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	7148759			75.98- 135.98	103.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	30319210	200.000	223.04	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	9915225			0.00- 30.00	32.70
9.110	9.110 (1.130)	41	7628319			0.00- 30.00	25.16
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	13162200	200.000	207.18	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	77	3019769			0.00- 30.00	22.94
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	6115333	200.000	210.12	70.00- 130.00	100.00(A)
9.276	9.276 (0.936)	64	1907292			0.00- 30.00	31.19
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1552617	200.000	218.81	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	12168235			0.00- 30.00	783.72
9.469	9.469 (0.955)	71	4755038			0.00- 30.00	306.26
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	5225261	200.000	202.78	70.00- 130.00	100.00(A)
10.326	10.326 (1.042)	130	4874779			64.49- 124.49	93.29
10.326	10.326 (1.042)	97	3343656			34.72- 94.72	63.99
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	5104635	200.000	204.32	70.00- 130.00	100.00(A)
10.852	10.852 (1.095)	62	3646628			39.05- 99.05	71.44
10.824	10.824 (1.092)	41	3449628			36.65- 96.65	67.58
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	3047468	200.000	210.03	70.00- 130.00	100.00(A)
11.045	11.045 (1.114)	58	2835408			62.00- 122.00	93.04
11.045	11.045 (1.114)	57	881722			0.00- 30.00	28.93
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	7699387	200.000	213.72	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	4904851			34.72- 94.72	63.70
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	5762675	200.000	225.69	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1837180			0.28- 60.28	31.88
12.289	12.289 (1.240)	39	4130568			43.30- 103.30	71.68
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	4730396	200.000	227.29	70.00- 130.00	100.00(A)
12.594	12.594 (1.271)	43	13344863			0.00- 30.00	282.11
12.594	12.594 (1.271)	85	1564460			0.00- 30.00	33.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	13234278	200.000	201.94	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	7782172			29.65- 89.65	58.80
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	5992352	200.000	244.89	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1862914			1.96- 61.96	31.09
13.340	13.340 (0.889)	39	4062607			38.82- 98.82	67.80
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	4441546	200.000	203.48	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	2760199			33.63- 93.63	62.15
13.644	13.644 (0.910)	83	3712821			55.73- 115.73	83.59
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	4978683	200.000	196.23	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	4049222			50.24- 110.24	81.33
13.700	13.700 (0.913)	131	3856812			48.42- 108.42	77.47
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	6788322	200.000	222.94	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	13564043			168.65- 228.65	199.81
14.031	14.031 (0.935)	100	1021389			0.00- 30.00	15.05
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	6797279	200.000	222.56	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	5288923			0.00- 30.00	77.81
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	6974912	200.000	218.00	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	6501581			63.74- 123.74	93.21
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	10023472	200.000	201.12	70.00- 130.00	100.00(A)
15.027	15.027 (1.002)	114	3208018			1.82- 61.82	32.01
15.027	15.027 (1.002)	77	6285605			31.79- 91.79	62.71
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	5595835	200.000	207.82	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	18264820			0.00- 30.00	326.40
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	6958327	200.000	210.40	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	15132243			0.00- 30.00	217.47
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	6397817	200.000	203.44	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	14678586			195.49- 255.49	229.43
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	10594301	200.000	228.49	70.00- 130.00	100.00(A)
15.911	15.911 (1.061)	78	5603941			22.39- 82.39	52.90
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	5879832	200.000	216.03	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3042544			21.21- 81.21	51.75
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	9654646	200.000	203.57	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	6137606			33.63- 93.63	63.57
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	19926988	200.000	214.75	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	5796728			0.00- 59.46	29.09
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	16195440	200.000	193.10	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	8354342			0.00- 30.00	51.58
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	15645232	200.000	219.90	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	7177069			16.11- 76.11	45.87
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	10205679	200.000	202.62	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	6469217			0.00- 30.00	63.39
17.764	17.764 (1.184)	111	4196257			0.00- 30.00	41.12
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	11649605	200.000	197.34	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	7316004			0.00- 30.00	62.80
17.847	17.847 (1.190)	111	5090946			0.00- 30.00	43.70
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14811552	200.000	199.26	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	3792145			0.00- 30.00	25.60
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	10278339	200.000	194.01	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	6561023			32.64- 92.64	63.83
18.206	18.206 (1.214)	111	4303497			11.53- 71.53	41.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	7407149	200.000	196.98	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	6968403			63.93- 123.93	94.08
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	4964078	200.000	187.90	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	3098497			32.69- 92.69	62.42
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	22515730	200.000	206.17	70.00- 130.00	100.00(A)
16.824	16.824 (1.122)	120	5037838			0.00- 30.00	22.37
16.824	16.824 (1.122)	105	809839			0.00- 30.00	3.60
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	17361026	200.000	182.07	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5128121			0.00- 30.00	29.54
16.326	16.326 (1.088)	51	2810203			0.00- 30.00	16.19
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	15685584	200.000	125.24	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	3440644			0.00- 30.00	21.94
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	9276275	200.000	197.49	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	5992060			0.00- 30.00	64.60
3.414	3.414 (0.424)	72	601448			0.00- 30.00	6.48
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	1610134	200.000	201.06	70.00- 130.00	100.00(A)
2.695	2.695 (0.334)	43	11574318			0.00- 30.00	718.84
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	7735277	200.000	210.81	70.00- 130.00	100.00(A)
10.547	10.547 (1.064)	98	3742413			0.00- 30.00	48.38
10.547	10.547 (1.064)	55	8517231			0.00- 30.00	110.11

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111213.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 200ppbv

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	379428	6.81
92 1,4-Difluorobenze	1306915	784149	1829681	1473899	12.78
125 Chlorobenzene-d5	1023463	614078	1432848	1158184	13.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-12nov.b/5111213.d

Date : 12-NOV-2007 16:13

Client ID: Level 7

Sample Info: 200mL #1576-89

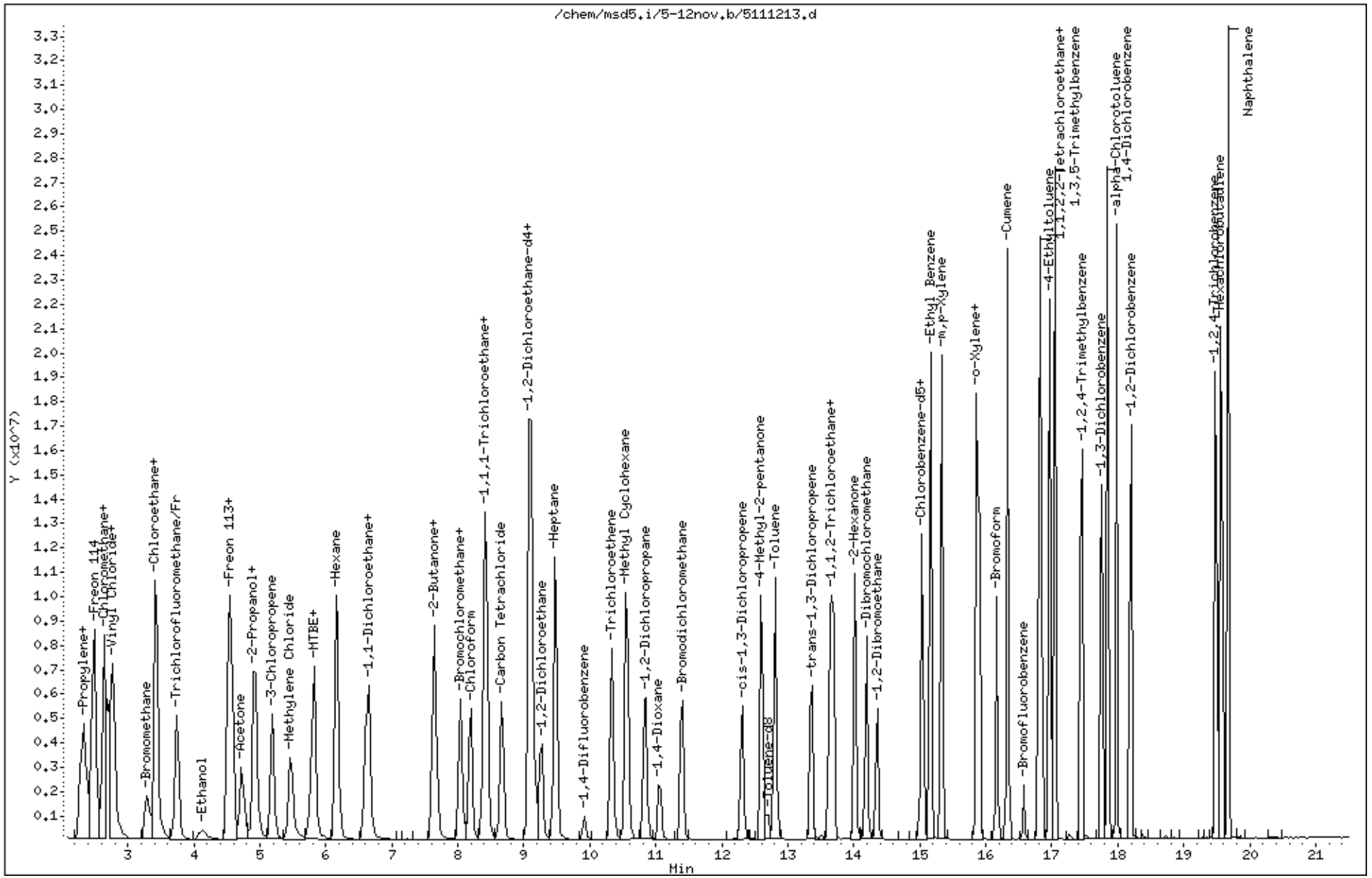
Instrument: msd5.i

Operator: cb

Column phase: RTx-624

Column diameter: 0.53

0172



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-13nov.b/5111303.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 13-NOV-2007 12:52
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1497-139
Misc Info : 250ppbv (1000ppbv)
Comment :
Method : /chem/msd5.i/5-12nov.b/t14qn12a.m
Meth Date : 13-Nov-2007 13:21 ctaylor Quant Type: ISTD
Cal Date : 13-NOV-2007 12:52 Cal File: 5111303.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level8.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	351990	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	274795			42.76- 102.76		78.07
8.031	8.031 (1.000)	49	788886			173.18- 233.18		224.12
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1397135	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	229663			0.00- 46.42		16.44
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1075416	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	649768			0.00- 30.00		60.42
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.110	9.110 (1.130)	65	593872	25.0000	28.188	70.00- 130.00		100.00
9.110	9.110 (1.130)	67	443921			0.00- 30.00		74.75
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1240246	25.0000	25.144	70.00- 130.00		100.00
12.677	12.677 (1.279)	70	124834			0.00- 30.00		10.07

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	913233			0.00- 30.00	73.63
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	661035	25.0000	26.344	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1017403			128.71- 188.71	153.91
16.575	16.575 (1.105)	176	644249			68.26- 128.26	97.46
113 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
13.368	13.368 (0.891)	75	7589108	250.000	334.02	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	2394908			1.96- 61.96	31.56
13.340	13.340 (0.889)	39	5237247			38.82- 98.82	69.01

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5111303.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m
Misc Info: 250ppbv (1000ppbv)

Calibration Date: 12-NOV-2007
Calibration Time: 15:12
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	355243	213146	497340	351990	-0.92
92 1,4-Difluorobenze	1306915	784149	1829681	1397135	6.90
125 Chlorobenzene-d5	1023463	614078	1432848	1075416	5.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

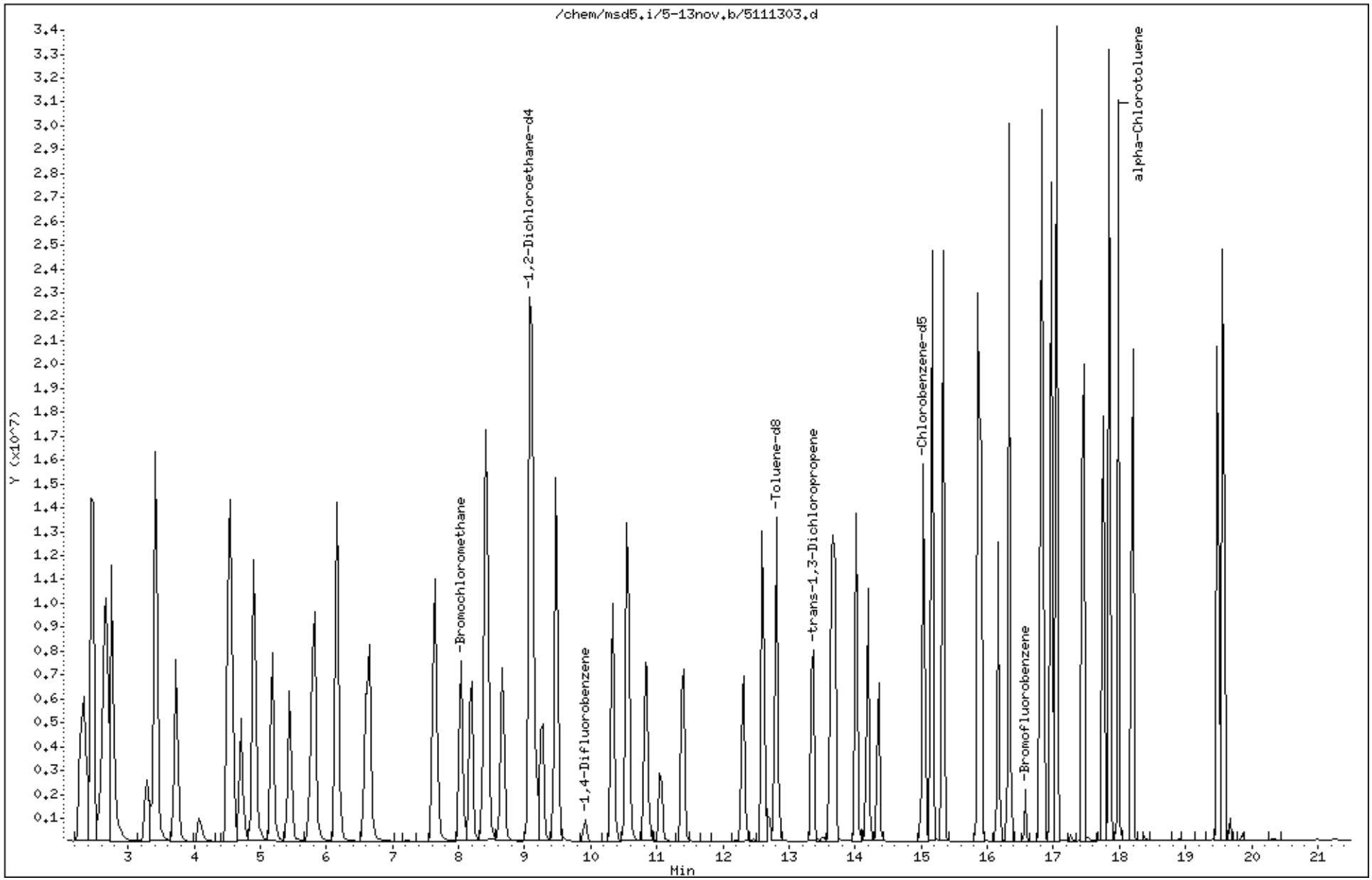
0176

Data File: /chem/msd5.i/5-13nov.b/5111303.d
Date : 13-NOV-2007 12:52
Client ID: Level 8
Sample Info: 50mL #1497-139

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801026-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/08 10:40 AM**	

Compound	%Recovery
Freon 12	89
Freon 114	93
Vinyl Chloride	88
Bromomethane	89
Chloroethane	80
Freon 11	96
1,1-Dichloroethene	91
Freon 113	95
Methylene Chloride	100
1,1-Dichloroethane	89
cis-1,2-Dichloroethene	91
Chloroform	94
1,1,1-Trichloroethane	97
Carbon Tetrachloride	102
Benzene	88
1,2-Dichloroethane	105
Trichloroethene	89
1,2-Dichloropropane	86
cis-1,3-Dichloropropene	92
Toluene	87
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	95
Tetrachloroethene	95
1,2-Dibromoethane (EDB)	98
Chlorobenzene	94
Ethyl Benzene	94
m,p-Xylene	96
o-Xylene	92
Styrene	95
1,1,2,2-Tetrachloroethane	92
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	91
1,3-Butadiene	99
Hexane	95
Cyclohexane	88

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801026-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/08 10:40 AM**	

Compound	%Recovery
Heptane	92
Bromodichloromethane	96
Dibromochloromethane	104
Cumene	96
Propylbenzene	103
Chloromethane	97
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	95
Acetone	89
Carbon Disulfide	88
2-Propanol	88
trans-1,2-Dichloroethene	91
2-Butanone (Methyl Ethyl Ketone)	84
Tetrahydrofuran	88
1,4-Dioxane	85
4-Methyl-2-pentanone	95
2-Hexanone	91
Bromoform	108
4-Ethyltoluene	104
Ethanol	84
Methyl tert-butyl ether	92
3-Chloropropene	82
2,2,4-Trimethylpentane	92
Naphthalene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 08-JAN-2008 10:40
Lab File ID: 5010805.d Init. Cal. Date(s): 12-NOV-2007 27-NOV-2007
Analysis Type: AIR Init. Cal. Times: 13:22 12:08
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-08jan.b/t14qn12c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.49639	1.54995	0.010	-3.57883	30.00000	Averaged
$ 107 Toluene-d8	0.88263	0.87311	0.010	1.07887	30.00000	Averaged
$ 138 Bromofluorobenzene	0.58333	0.59570	0.010	-2.12198	30.00000	Averaged
6 Propylene	1.74497	1.61573	0.010	7.40623	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	2.95608	2.62345	0.010	11.25241	30.00000	Averaged
9 Freon 114	2.69778	2.50791	0.010	7.03799	30.00000	Averaged
10 Chloromethane	2.21969	2.16118	0.010	2.63580	30.00000	Averaged
13 Vinyl Chloride	2.13649	1.89092	0.010	11.49426	30.00000	Averaged
12 1,3-Butadiene	1.82463	1.80832	0.010	0.89403	30.00000	Averaged
15 Bromomethane	1.37930	1.22557	0.010	11.14536	30.00000	Averaged
19 Chloroethane	1.08675	0.86887	0.010	20.04927	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.22295	3.07857	0.010	4.47979	30.00000	Averaged
26 Ethanol	0.70017	0.58798	0.010	16.02323	30.00000	Averaged
30 Freon 113	2.00401	1.90892	0.010	4.74468	30.00000	Averaged
31 1,1-Dichloroethene	2.65222	2.40491	0.010	9.32445	30.00000	Averaged
32 Acetone	0.99203	0.88768	0.010	10.51845	30.00000	Averaged
36 2-Propanol	3.53043	3.10283	0.010	12.11176	30.00000	Averaged
35 Carbon Disulfide	4.49145	3.96308	0.010	11.76403	30.00000	Averaged
38 3-Chloropropene	0.74783	0.61709	0.010	17.48256	30.00000	Averaged
43 Methylene Chloride	2.26785	2.25803	0.010	0.43284	30.00000	Averaged
46 MTBE	1.70717	1.56644	0.010	8.24328	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.60625	1.46869	0.010	8.56439	30.00000	Averaged
51 Hexane	3.26636	3.11870	0.010	4.52073	30.00000	Averaged
55 1,1-Dichloroethane	2.90836	2.58794	0.010	11.01719	30.00000	Averaged
67 2-Butanone	0.70189	0.59138	0.010	15.74460	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.18371	1.99224	0.010	8.76815	30.00000	Averaged
70 Tetrahydrofuran	2.61338	2.28706	0.010	12.48631	30.00000	Averaged
72 Chloroform	2.46416	2.31386	0.010	6.09943	30.00000	Averaged
75 1,1,1-Trichloroethane	2.46307	2.39362	0.010	2.81973	30.00000	Averaged
74 Cyclohexane	1.98423	1.74517	0.010	12.04765	30.00000	Averaged
56 Vinyl Acetate	0.36845	0.41552	0.010	-12.77495	30.00000	Averaged
77 Carbon Tetrachloride	2.03366	2.08119	0.010	-2.33696	30.00000	Averaged
80 2,2,4-Trimethylpentane	8.95659	8.22119	0.010	8.21072	30.00000	Averaged
81 Benzene	1.07756	0.94769	0.010	12.05235	30.00000	Averaged
85 1,2-Dichloroethane	0.49365	0.51978	0.010	-5.29179	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 08-JAN-2008 10:40
Lab File ID: 5010805.d Init. Cal. Date(s): 12-NOV-2007 27-NOV-2007
Analysis Type: AIR Init. Cal. Times: 13:22 12:08
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-08jan.b/t14qn12c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.12036	0.11070	0.010	8.02285	30.00000	Averaged
93 Trichloroethene	0.43706	0.39048	0.010	10.65749	30.00000	Averaged
98 1,2-Dichloropropane	0.42376	0.36236	0.010	14.49006	30.00000	Averaged
99 1,4-Dioxane	0.24611	0.20827	0.010	15.37499	30.00000	Averaged
100 Bromodichloromethane	0.61107	0.58757	0.010	3.84594	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.43309	0.40054	0.010	7.51711	30.00000	Averaged
106 4-Methyl-2-pentanone	0.35302	0.33697	0.010	4.54609	30.00000	Averaged
108 Toluene	1.11163	0.96437	0.010	13.24735	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.52818	0.55335	0.010	-4.76475	30.00000	Averaged
114 1,1,2-Trichloroethane	0.47116	0.44675	0.010	5.17961	30.00000	Averaged
116 Tetrachloroethene	0.54765	0.52155	0.010	4.76560	30.00000	Averaged
119 2-Hexanone	0.65725	0.59690	0.010	9.18184	30.00000	Averaged
120 Dibromochloromethane	0.65925	0.68670	0.010	-4.16387	30.00000	Averaged
122 1,2-Dibromoethane	0.69063	0.67668	0.010	2.01980	30.00000	Averaged
126 Chlorobenzene	1.07580	1.01741	0.010	5.42700	30.00000	Averaged
128 Ethyl Benzene	0.58120	0.54703	0.010	5.88035	30.00000	Averaged
130 m,p-Xylene	0.71385	0.68734	0.010	3.71424	30.00000	Averaged
132 o-Xylene	0.67883	0.62506	0.010	7.92111	30.00000	Averaged
133 Styrene	1.00085	0.95020	0.010	5.06056	30.00000	Averaged
134 Bromoform	0.58750	0.63568	0.010	-8.20025	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	1.02374	0.94214	0.010	7.96985	30.00000	Averaged
144 4-Ethyltoluene	2.00291	2.07897	0.010	-3.79773	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.81040	1.88399	0.010	-4.06478	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.53578	1.47671	0.010	3.84632	30.00000	Averaged
155 1,3-Dichlorobenzene	1.08725	1.04431	0.010	3.94938	30.00000	Averaged
156 1,4-Dichlorobenzene	1.27425	1.28752	0.010	-1.04101	30.00000	Averaged
157 alpha-Chlorotoluene	1.60452	1.85867	0.010	-15.83922	30.00000	Averaged
159 1,2-Dichlorobenzene	1.14355	1.04380	0.010	8.72270	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.81171	0.75625	0.010	6.83217	30.00000	Averaged
164 Hexachlorobutadiene	0.57027	0.54228	0.010	4.90824	30.00000	Averaged
142 Propylbenzene	2.35732	2.43841	0.010	-3.43969	30.00000	Averaged
136 Cumene	2.05825	1.97328	0.010	4.12800	30.00000	Averaged
165 Naphthalene	2.70346	2.91185	0.010	-7.70823	30.00000	Averaged
17 Isopentane	3.09489	3.04069	0.010	1.75139	30.00000	Averaged
11 Butane	0.52766	0.49865	0.010	5.49749	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 08-JAN-2008 10:40
Lab File ID: 5010805.d Init. Cal. Date(s): 12-NOV-2007 27-NOV-2007
Analysis Type: AIR Init. Cal. Times: 13:22 12:08
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-08jan.b/t14qn12c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.62237	0.55280	0.010	11.17839	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-08jan.b/5010805.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 08-JAN-2008 10:40
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1443-379
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-08jan.b/t14qn12c.m
Meth Date : 08-Jan-2008 10:46 cbond Quant Type: ISTD
Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	265081	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	200717			45.72- 105.72	75.72
8.059	8.059 (1.000)	49	585426			190.85- 250.85	220.85
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	975601	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	163454			0.00- 46.75	16.75
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	739011	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	420868			0.00- 30.00	56.95
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	410861	25.0000	25.895	80.00- 120.00	100.00
9.110	9.110 (1.130)	67	208528			27.88- 87.88	50.75
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	851803	25.0000	24.730	80.00- 120.00	100.00
12.676	12.676 (1.279)	70	92308			0.00- 40.29	10.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	554206			37.87- 97.87	65.06
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	440232	25.0000	25.530	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	675500			123.44- 183.44	153.44
16.575	16.575 (1.105)	176	430440			67.78- 127.78	97.78
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	856601	50.0000	46.297	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	587480			0.00- 30.00	68.58
2.280	2.280 (0.283)	39	576326			0.00- 30.00	67.28
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1390855	50.0000	44.374	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	447818			0.00- 30.00	32.20
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1329600	50.0000	46.481	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	425788			2.02- 62.02	32.02
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1145777	50.0000	48.682	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	349625			0.00- 30.00	30.51
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1002493	50.0000	44.253	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	296147			0.00- 30.00	29.54
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	958702	50.0000	49.553	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1059430			0.00- 30.00	110.51
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	649752	50.0000	44.427	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	626989			66.50- 126.50	96.50
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	460641	50.0000	39.975	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	134412			0.00- 30.00	29.18
3.386	3.386 (0.420)	66	132371			0.00- 30.00	28.74
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1632139	50.0000	47.760	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1031906			33.22- 93.22	63.22

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	311726	50.0000	41.988	80.00- 120.00	100.00
4.077	4.077 (0.506)	43	63586			0.00- 30.00	20.40
4.105	4.105 (0.509)	46	127474			0.00- 30.00	40.89
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1012039	50.0000	47.628	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	644916			33.72- 93.72	63.72
4.520	4.520 (0.561)	101	1327066			101.13- 161.13	131.13
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1274993	50.0000	45.338	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	719576			26.44- 86.44	56.44
4.575	4.575 (0.568)	98	437706			4.33- 64.33	34.33
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	470616	50.0000	44.741	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	1505804			0.00- 30.00	319.96
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1645004	50.0000	43.944	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	393931			0.00- 30.00	23.95
4.907	4.907 (0.609)	59	56281			0.00- 30.00	3.42
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2101072	50.0000	44.118	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	327158	50.0000	41.259	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	1396196			0.00- 30.00	426.77
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1197124	50.0000	49.784	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	613198			21.22- 81.22	51.22
5.432	5.432 (0.674)	51	358235			0.00- 30.00	29.92
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	830467	50.0000	45.878	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	263503			1.73- 61.73	31.73
5.764	5.764 (0.715)	41	336449			0.00- 30.00	40.51
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	778643	50.0000	45.718	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1249741			130.50- 190.50	160.50
5.819	5.819 (0.722)	98	503392			0.00- 30.00	64.65

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1653417	50.0000	47.740	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1200105			0.00- 30.00	72.58
6.179	6.179 (0.767)	86	220291			0.00- 30.00	13.32
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1372029	50.0000	44.491	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	431787			1.47- 61.47	31.47
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	313529	50.0000	42.128	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	1970933			598.63- 658.63	628.63
7.644	7.644 (0.949)	57	139880			0.00- 30.00	44.61
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1056210	50.0000	45.616	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	688417			35.18- 95.18	65.18
7.617	7.617 (0.945)	98	431500			10.85- 70.85	40.85
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1212513	50.0000	43.757	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	280638			0.00- 53.15	23.15
8.031	8.031 (0.997)	72	311517			0.00- 30.00	25.69
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1226721	50.0000	46.950	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	794743			34.79- 94.79	64.79
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	1269007	50.0000	48.590	80.00- 120.00	100.00
8.418	8.418 (1.045)	99	830116			35.41- 95.41	65.41
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	925225	50.0000	43.976	80.00- 120.00	100.00
8.391	8.391 (1.041)	56	1496983			131.80- 191.80	161.80
8.391	8.391 (1.041)	41	909122			68.26- 128.26	98.26
56 Vinyl Acetate					CAS #: 108-05-4		
6.179	6.179 (0.767)	86	220291	50.0000	56.387	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1200105			0.00- 30.00	544.78
6.151	6.151 (0.763)	42	607913			0.00- 30.00	275.96
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1103367	50.0000	51.168	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1144143			73.70- 133.70	103.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	4358562	50.0000	45.895	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	1443419			0.00- 30.00	33.12
9.082	9.082 (1.127)	41	1210773			0.00- 30.00	27.78
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1849137	50.0000	43.974	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	442622			0.00- 30.00	23.94
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1014189	50.0000	52.646	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	319778			0.00- 30.00	31.53
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	216000	50.0000	45.988	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	1810163			0.00- 30.00	838.04
9.469	9.469 (0.955)	71	639323			0.00- 30.00	295.98
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	761909	50.0000	44.671	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	733914			66.33- 126.33	96.33
10.326	10.326 (1.042)	97	487608			34.00- 94.00	64.00
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	707030	50.0000	42.755	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	496147			40.17- 100.17	70.17
10.824	10.824 (1.092)	41	575077			51.34- 111.34	81.34
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	406379	50.0000	42.312	80.00- 120.00	100.00
11.045	11.045 (1.114)	58	403328			69.25- 129.25	99.25
11.073	11.073 (1.117)	57	131890			0.00- 30.00	32.45
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1146466	50.0000	48.077	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	745672			35.04- 95.04	65.04
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	781528	50.0000	46.241	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	239582			0.66- 60.66	30.66
12.289	12.289 (1.240)	39	629985			50.61- 110.61	80.61
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	657495	50.0000	47.727	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	1939432			0.00- 30.00	294.97
12.594	12.594 (1.271)	85	213183			0.00- 30.00	32.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1881678	50.0000	43.376	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1131394			30.13- 90.13	60.13
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	817858	50.0000	52.382	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	246102			0.09- 60.09	30.09
13.340	13.340 (0.889)	39	597174			43.02- 103.02	73.02
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	660311	50.0000	47.410	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	408248			31.83- 91.83	61.83
13.644	13.644 (0.910)	83	541244			51.97- 111.97	81.97
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	770862	50.0000	47.617	80.00- 120.00	100.00
13.672	13.672 (0.912)	129	644302			53.58- 113.58	83.58
13.672	13.672 (0.912)	131	610648			49.22- 109.22	79.22
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	882237	50.0000	45.409	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	1939488			189.84- 249.84	219.84
14.031	14.031 (0.935)	100	127835			0.00- 30.00	14.49
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1014957	50.0000	52.082	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	798239			0.00- 30.00	78.65
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1000151	50.0000	48.990	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	960059			65.99- 125.99	95.99
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1503760	50.0000	47.286	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	479779			1.91- 61.91	31.91
15.027	15.027 (1.002)	77	925005			31.51- 91.51	61.51
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	808517	50.0000	47.060	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2700463			0.00- 30.00	334.00
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1015903	50.0000	48.143	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2227786			0.00- 30.00	219.29
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	923848	50.0000	46.039	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2186193			206.64- 266.64	236.64
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1404419	50.0000	47.470	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	792942			26.46- 86.46	56.46
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	939549	50.0000	54.100	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	480501			21.14- 81.14	51.14
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1392511	50.0000	46.015	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	907001			35.13- 95.13	65.13
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3072767	50.0000	51.899	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	898505			0.00- 59.24	29.24
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2784578	50.0000	52.032	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1314306			0.00- 30.00	47.20
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2182606	50.0000	48.077	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	993090			15.50- 75.50	45.50
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1543516	50.0000	48.025	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	951076			0.00- 30.00	61.62
17.764	17.764 (1.184)	111	617623			0.00- 30.00	40.01
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1902980	50.0000	50.520	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1210867			0.00- 30.00	63.63
17.847	17.847 (1.190)	111	781803			0.00- 30.00	41.08
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2747148	50.0000	57.920	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	510064			0.00- 30.00	18.57
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1542757	50.0000	45.639	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1001015			34.88- 94.88	64.88
18.206	18.206 (1.214)	111	629811			10.82- 70.82	40.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1117757	50.0000	46.584	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1047238			63.69- 123.69	93.69
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	801501	50.0000	47.546	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	497587			32.08- 92.08	62.08
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3604023	50.0000	51.720	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	747349			0.00- 30.00	20.74
16.824	16.824 (1.122)	105	127566			0.00- 30.00	3.54
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2916555	50.0000	47.936	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	787434			0.00- 30.00	27.00
16.326	16.326 (1.088)	51	433524			0.00- 30.00	14.86
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4303784	50.0000	53.854	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	537058			0.00- 30.00	12.48
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1612056	50.0000	49.124	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	986414			0.00- 30.00	61.19
3.414	3.414 (0.424)	72	88540			0.00- 30.00	5.49
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	264364	50.0000	47.251	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	2017740			0.00- 30.00	763.24
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1078630	50.0000	44.411	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	546243			0.00- 30.00	50.64
10.547	10.547 (1.064)	55	1320855			0.00- 30.00	122.46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5010805.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd5.i/5-08jan.b/t14qn12c.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-JAN-2008
Calibration Time: 09:05
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	326311	195787	456835	265081	-18.76
92 1,4-Difluorobenze	1178729	707237	1650221	975601	-17.23
125 Chlorobenzene-d5	834377	500626	1168128	739011	-11.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

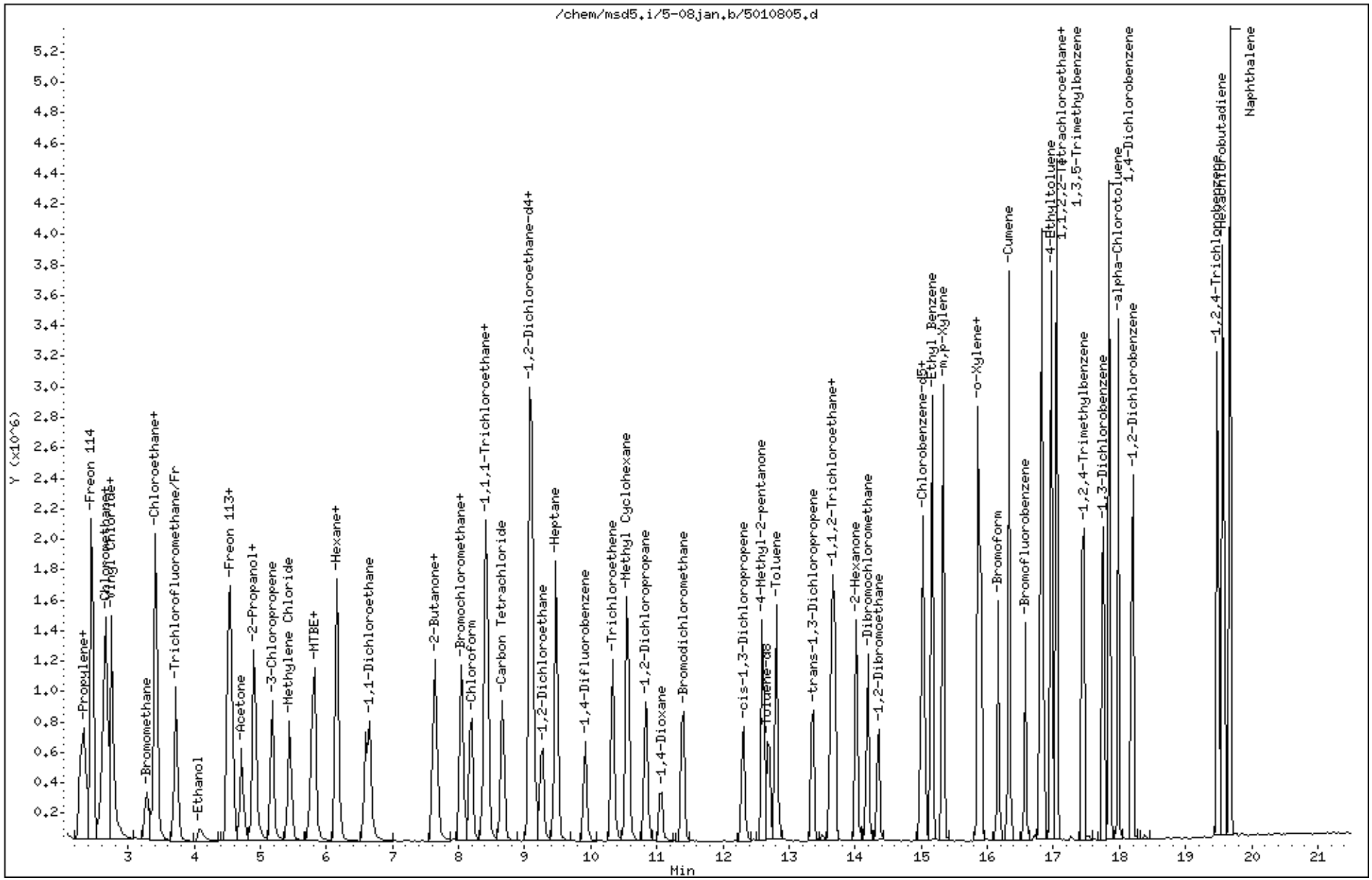
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0191

Data File: /chem/msd5.i/5-08jan.b/5010805.d
Date : 08-JAN-2008 10:40
Client ID: CCV-1
Sample Info: 50mL #1443-379

Instrument: msd5.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801026-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/08 09:33 AM**	

Compound	%Recovery
Freon 12	100
Freon 114	107
Vinyl Chloride	99
Bromomethane	102
Chloroethane	89
Freon 11	106
1,1-Dichloroethene	114
Freon 113	122
Methylene Chloride	118
1,1-Dichloroethane	107
cis-1,2-Dichloroethene	102
Chloroform	107
1,1,1-Trichloroethane	112
Carbon Tetrachloride	118
Benzene	95
1,2-Dichloroethane	116
Trichloroethene	97
1,2-Dichloropropane	93
cis-1,3-Dichloropropene	99
Toluene	97
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	102
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	103
Chlorobenzene	99
Ethyl Benzene	102
m,p-Xylene	101
o-Xylene	101
Styrene	105
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	95
1,3-Butadiene	109
Hexane	106
Cyclohexane	96

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801026-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5010803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/8/08 09:33 AM**	

Compound	**%Recovery**
Heptane	100
Bromodichloromethane	106
Dibromochloromethane	114
Cumene	107
Propylbenzene	111
Chloromethane	109
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	98
Acetone	97
Carbon Disulfide	98
2-Propanol	105
trans-1,2-Dichloroethene	105
2-Butanone (Methyl Ethyl Ketone)	93
Tetrahydrofuran	97
1,4-Dioxane	94
4-Methyl-2-pentanone	105
2-Hexanone	99
Bromoform	114
4-Ethyltoluene	115
Ethanol	108
Methyl tert-butyl ether	110
3-Chloropropene	95
2,2,4-Trimethylpentane	102
Naphthalene	114

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 08-Jan-2008 10:49

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-08jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /var/chem/msd5.i/5-08jan.b/t14qn12c.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	49.794	99.59	70-130
9 Freon 114	50.000	53.482	106.96	70-130
10 Chloromethane	50.000	54.647	109.29	70-130
13 Vinyl Chloride	50.000	49.478	98.96	70-130
12 1,3-Butadiene	50.000	54.524	109.05	60-140
15 Bromomethane	50.000	51.251	102.50	70-130
19 Chloroethane	50.000	44.369	88.74	70-130
20 Trichlorofluoromet	50.000	53.051	106.10	70-130
26 Ethanol	50.000	53.859	107.72	60-140
30 Freon 113	50.000	61.196	122.39	70-130
31 1,1-Dichloroethene	50.000	56.825	113.65	70-130
35 Carbon Disulfide	50.000	49.057	98.11	60-140
32 Acetone	50.000	48.747	97.49	60-140
36 2-Propanol	50.000	52.532	105.06	60-140
38 3-Chloropropene	50.000	47.570	95.14	60-140
43 Methylene Chloride	50.000	59.008	118.02	70-130
46 MTBE	50.000	55.254	110.51	60-140
47 trans-1,2-Dichloro	50.000	52.377	104.75	60-140
51 Hexane	50.000	52.965	105.93	60-140
55 1,1-Dichloroethane	50.000	53.517	107.03	70-130
66 cis-1,2-Dichloroet	50.000	51.094	102.19	70-130
67 2-Butanone	50.000	46.474	92.95	60-140
70 Tetrahydrofuran	50.000	48.624	97.25	60-140
72 Chloroform	50.000	53.424	106.85	70-130
74 Cyclohexane	50.000	48.280	96.56	60-140
75 1,1,1-Trichloroeth	50.000	56.039	112.08	70-130
56 Vinyl Acetate	50.000	62.780	125.56	60-140
77 Carbon Tetrachlori	50.000	59.195	118.39	70-130
80 2,2,4-Trimethylpen	50.000	51.112	102.22	60-140
81 Benzene	50.000	47.693	95.39	70-130
85 1,2-Dichloroethane	50.000	57.911	115.82	70-130
90 Heptane	50.000	50.113	100.23	60-140
93 Trichloroethene	50.000	48.464	96.93	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	46.718	93.44	70-130
99 1,4-Dioxane	50.000	46.972	93.95	60-140
100 Bromodichlorometha	50.000	53.169	106.34	60-140
103 cis-1,3-Dichloropr	50.000	49.728	99.46	70-130
106 4-Methyl-2-pentano	50.000	52.589	105.18	60-140
108 Toluene	50.000	48.649	97.30	70-130
113 trans-1,3-Dichloro	50.000	54.897	109.79	70-130
114 1,1,2-Trichloroeth	50.000	51.121	102.24	70-130
116 Tetrachloroethene	50.000	52.949	105.90	70-130
119 2-Hexanone	50.000	49.436	98.87	60-140
120 Dibromochlorometha	50.000	57.135	114.27	60-140
122 1,2-Dibromoethane	50.000	51.484	102.97	70-130
126 Chlorobenzene	50.000	49.602	99.20	70-130
128 Ethyl Benzene	50.000	50.776	101.55	70-130
130 m,p-Xylene	50.000	50.711	101.42	70-130
132 o-Xylene	50.000	50.643	101.29	70-130
133 Styrene	50.000	52.660	105.32	70-130
134 Bromoform	50.000	57.292	114.58	60-140
136 Cumene	50.000	53.308	106.62	60-140
141 1,1,2,2-Tetrachlor	50.000	49.560	99.12	70-130
142 Propylbenzene	50.000	55.745	111.49	60-140
144 4-Ethyltoluene	50.000	57.456	114.91	60-140
147 1,3,5-Trimethylben	50.000	56.051	112.10	70-130
152 1,2,4-Trimethylben	50.000	52.703	105.41	70-130
155 1,3-Dichlorobenzen	50.000	48.610	97.22	70-130
156 1,4-Dichlorobenzen	50.000	53.917	107.83	70-130
157 alpha-Chlorotoluen	50.000	63.094	126.19	70-130
159 1,2-Dichlorobenzen	50.000	47.568	95.14	70-130
163 1,2,4-Trichloroben	50.000	50.183	100.37	70-130
164 Hexachlorobutadien	50.000	49.294	98.59	70-130
6 Propylene	50.000	55.824	111.65	70-130
165 Naphthalene	50.000	57.220	114.44	60-140
11 Butane	50.000	52.045	104.09	70-130
17 Isopentane	50.000	53.793	107.59	70-130
94 Methyl Cyclohexane	50.000	48.794	97.59	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	27.006	108.02	70-130
$ 107 Toluene-d8	25.000	25.519	102.08	70-130
$ 138 Bromofluorobenzene	25.000	25.581	102.32	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-08jan.b/5010803.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 08-JAN-2008 09:33
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-171
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-08jan.b/t14qn12c.m
Meth Date : 08-Jan-2008 10:46 cbond Quant Type: ISTD
Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	252614	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	202207			45.72- 105.72	80.05
8.031	8.059 (1.000)	49	575945			190.85- 250.85	227.99
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	953558	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	165899			0.00- 46.75	17.40
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	725158	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	421308			0.00- 30.00	58.10
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	408337	27.0057	27.006	80.00- 120.00	100.00
9.110	9.110 (1.130)	67	222645			27.88- 87.88	54.52
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.677	12.704 (1.279)	98	859106	25.5189	25.519	80.00- 120.00	100.00
12.677	12.676 (1.279)	70	86876			0.00- 40.29	10.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.677	12.704 (1.279)	100	541421			37.87- 97.87	63.02
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	432833	25.5809	25.581	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	671418			123.44- 183.44	155.12
16.575	16.575 (1.105)	176	411324			67.78- 127.78	95.03
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	984294	55.8238	55.824	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	652620			0.00- 30.00	66.30
2.280	2.280 (0.283)	39	652856			0.00- 30.00	66.33
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1487348	49.7942	49.794	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	481176			0.00- 30.00	32.35
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1457927	53.4825	53.482	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	437813			2.02- 62.02	30.03
10 Chloromethane					CAS #: 74-87-3		
2.585	2.584 (0.321)	50	1225679	54.6471	54.647	80.00- 120.00	100.00
2.585	2.584 (0.321)	52	364535			0.00- 30.00	29.74
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1068143	49.4778	49.478	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	332597			0.00- 30.00	31.14
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1005273	54.5245	54.524	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1107585			0.00- 30.00	110.18
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	714296	51.2509	51.251	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	672204			66.50- 126.50	94.11
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	487224	44.3690	44.369	80.00- 120.00	100.00
3.386	3.414 (0.420)	49	150069			0.00- 30.00	30.80
3.386	3.386 (0.420)	66	151313			0.00- 30.00	31.06
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1727677	53.0508	53.051	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1099452			33.22- 93.22	63.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.077 (0.506)	45	381049	53.8590	53.859	80.00- 120.00	100.00
4.078	4.077 (0.506)	43	82336			0.00- 30.00	21.61
4.078	4.105 (0.506)	46	152213			0.00- 30.00	39.95
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1239191	61.1958	61.196	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	758901			33.72- 93.72	61.24
4.520	4.520 (0.561)	101	1570421			101.13- 161.13	126.73
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1522892	56.8254	56.825	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	842245			26.44- 86.44	55.31
4.575	4.575 (0.568)	98	532019			4.33- 64.33	34.93
32 Acetone					CAS #: 67-64-1		
4.714	4.713 (0.585)	58	488641	48.7470	48.747	80.00- 120.00	100.00
4.714	4.713 (0.585)	43	1666457			0.00- 30.00	341.04
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1873981	52.5315	52.532	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	431796			0.00- 30.00	23.04
4.907	4.907 (0.609)	59	67214			0.00- 30.00	3.59
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2226397	49.0567	49.057	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.183 (0.643)	76	359460	47.5697	47.570	80.00- 120.00	100.00
5.184	5.183 (0.643)	41	1511056			0.00- 30.00	420.37
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1352209	59.0081	59.008	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	682797			21.22- 81.22	50.49
5.432	5.432 (0.674)	51	409978			0.00- 30.00	30.32
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	953145	55.2542	55.254	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	333697			1.73- 61.73	35.01
5.764	5.764 (0.715)	41	367624			0.00- 30.00	38.57
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.819 (0.722)	96	850110	52.3773	52.377	80.00- 120.00	100.00
5.820	5.819 (0.722)	61	1371030			130.50- 190.50	161.28
5.820	5.819 (0.722)	98	524658			0.00- 30.00	61.72

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1748107	52.9646	52.965	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1268390			0.00- 30.00	72.56
6.151	6.179 (0.763)	86	233731			0.00- 30.00	13.37
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1572747	53.5171	53.517	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	475734			1.47- 61.47	30.25
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	329612	46.4744	46.474	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	2105933			598.63- 658.63	638.91
7.644	7.644 (0.949)	57	139075			0.00- 30.00	42.19
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1127401	51.0935	51.094	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	740136			35.18- 95.18	65.65
7.617	7.617 (0.945)	98	473943			10.85- 70.85	42.04
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1284019	48.6242	48.624	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	293170			0.00- 53.15	22.83
8.031	8.031 (0.997)	72	333201			0.00- 30.00	25.95
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1330207	53.4236	53.424	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	848314			34.79- 94.79	63.77
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.418 (1.045)	97	1394705	56.0386	56.039	80.00- 120.00	100.00
8.419	8.418 (1.045)	99	860744			35.41- 95.41	61.72
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.418 (1.045)	84	967993	48.2796	48.280	80.00- 120.00	100.00
8.391	8.391 (1.041)	56	1595558			131.80- 191.80	164.83
8.391	8.391 (1.041)	41	974292			68.26- 128.26	100.65
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.179 (0.763)	86	233731	62.7803	62.780	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1268390			0.00- 30.00	542.67
6.151	6.151 (0.763)	42	655900			0.00- 30.00	280.62
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1216411	59.1949	59.195	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1274651			73.70- 133.70	104.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	4625729	51.1117	51.112	80.00- 120.00	100.00
9.082	9.110 (1.127)	56	1528305			0.00- 30.00	33.04
9.082	9.082 (1.127)	41	1279633			0.00- 30.00	27.66
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1960230	47.6933	47.693	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	452521			0.00- 30.00	23.09
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1090405	57.9107	57.911	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	340867			0.00- 30.00	31.26
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	230055	50.1133	50.113	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2007403			0.00- 30.00	872.58
9.469	9.469 (0.955)	71	677774			0.00- 30.00	294.61
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	807923	48.4641	48.464	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	813811			66.33- 126.33	100.73
10.326	10.326 (1.042)	97	518019			34.00- 94.00	64.12
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	755109	46.7179	46.718	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	539551			40.17- 100.17	71.45
10.824	10.824 (1.092)	41	600916			51.34- 111.34	79.58
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	440942	46.9725	46.972	80.00- 120.00	100.00
11.045	11.045 (1.114)	58	423358			69.25- 129.25	96.01
11.045	11.073 (1.114)	57	141895			0.00- 30.00	32.18
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1239239	53.1688	53.169	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	786908			35.04- 95.04	63.50
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	821460	49.7277	49.728	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	265237			0.66- 60.66	32.29
12.290	12.289 (1.240)	39	669454			50.61- 110.61	81.50
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	708104	52.5888	52.589	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2112208			0.00- 30.00	298.29
12.594	12.594 (1.271)	85	226408			0.00- 30.00	31.97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2062730	48.6491	48.649	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1229426			30.13- 90.13	59.60
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	841060	54.8975	54.897	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	274763			0.09- 60.09	32.67
13.340	13.340 (0.889)	39	630111			43.02- 103.02	74.92
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	698649	51.1211	51.121	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	433928			31.83- 91.83	62.11
13.644	13.644 (0.910)	83	563305			51.97- 111.97	80.63
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	841109	52.9490	52.949	80.00- 120.00	100.00
13.672	13.672 (0.912)	129	675196			53.58- 113.58	80.27
13.672	13.672 (0.912)	131	651958			49.22- 109.22	77.51
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	942481	49.4366	49.436	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2049800			189.84- 249.84	217.49
14.031	14.031 (0.935)	100	131102			0.00- 30.00	13.91
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1092562	57.1352	57.135	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	847986			0.00- 30.00	77.61
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1031373	51.4845	51.484	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	984968			65.99- 125.99	95.50
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1547832	49.6022	49.602	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	508697			1.91- 61.91	32.87
15.027	15.027 (1.002)	77	977884			31.51- 91.51	63.18
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	856014	50.7762	50.776	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2836490			0.00- 30.00	331.36
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1050029	50.7107	50.711	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2318960			0.00- 30.00	220.85
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	997171	50.6428	50.643	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2330531			206.64- 266.64	233.71
133 Styrene					CAS #: 100-42-5		
15.912	15.911 (1.061)	104	1528769	52.6599	52.660	80.00- 120.00	100.00
15.884	15.911 (1.059)	78	844974			26.46- 86.46	55.27
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	976326	57.2917	57.292	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	510726			21.14- 81.14	52.31
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1471682	49.5603	49.560	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	949973			35.13- 95.13	64.55
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3338032	57.4562	57.456	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	978133			0.00- 59.24	29.30
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2943430	56.0514	56.051	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1400919			0.00- 30.00	47.59
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2347770	52.7029	52.703	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1053878			15.50- 75.50	44.89
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1533012	48.6097	48.610	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1013972			0.00- 30.00	66.14
17.764	17.764 (1.184)	111	648372			0.00- 30.00	42.29
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1992843	53.9169	53.917	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1292334			0.00- 30.00	64.85
17.847	17.847 (1.190)	111	828267			0.00- 30.00	41.56
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2936453	63.0935	63.094	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	580431			0.00- 30.00	19.77
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1577850	47.5685	47.568	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1020117			34.88- 94.88	64.65
18.206	18.206 (1.214)	111	667241			10.82- 70.82	42.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.506 (1.299)	180	1181539	50.1828	50.183	80.00- 120.00	100.00
19.478	19.506 (1.299)	182	1130746			63.69- 123.69	95.70
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	815388	49.2937	49.294	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	515267			32.08- 92.08	63.19
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3811683	55.7448	55.745	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	832086			0.00- 30.00	21.83
16.824	16.824 (1.122)	105	129483			0.00- 30.00	3.40
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3182622	53.3083	53.308	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	865613			0.00- 30.00	27.20
16.326	16.326 (1.088)	51	475447			0.00- 30.00	14.94
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4487087	57.2204	57.220	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	556511			0.00- 30.00	12.40
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1682249	53.7932	53.793	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	996657			0.00- 30.00	59.25
3.414	3.414 (0.424)	72	89396			0.00- 30.00	5.31
11 Butane					CAS #: 106-97-8		
2.668	2.667 (0.331)	58	277490	52.0451	52.045	80.00- 120.00	100.00
2.668	2.667 (0.331)	43	2201489			0.00- 30.00	793.36
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.547 (1.064)	83	1158312	48.7940	48.794	80.00- 120.00	100.00
10.548	10.547 (1.064)	98	590531			0.00- 30.00	50.98
10.548	10.547 (1.064)	55	1410509			0.00- 30.00	121.77

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5010803.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd5.i/5-08jan.b/t14qn12c.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-JAN-2008
Calibration Time: 10:40
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	265081	159049	371113	252614	-4.70
92 1,4-Difluorobenze	975601	585361	1365841	953558	-2.26
125 Chlorobenzene-d5	739011	443407	1034615	725158	-1.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

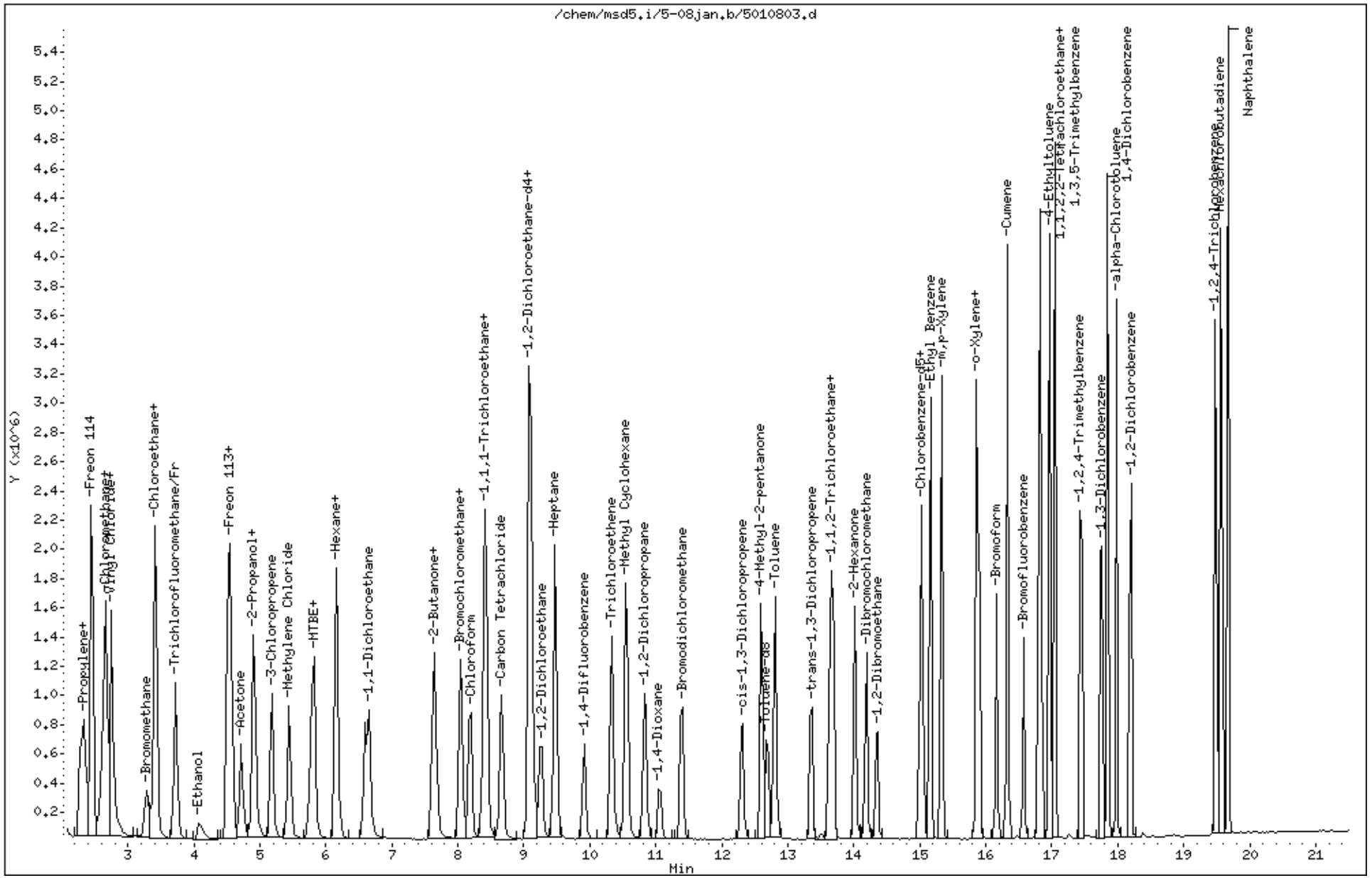
0205

Data File: /chem/msd5.i/5-08jan.b/5010803.d
Date : 08-JAN-2008 09:33
Client ID: LCS-1
Sample Info: 50mL #1576-171

Instrument: msd5.i

Operator: cb

Column phase: RTx-624
Column diameter: 0.53



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MSD-5

Logbook #: 1637

0206

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	30.25
75	30.0 – 60.0% of mass 95	50.21
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.68
173	Less than 2.0% of mass 174	(0.71)[1]
174	Greater than 50.0% of mass 95	66.43
175	5.0 – 9.0% of mass 174	(7.17)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.10)[1]
177	5.0 – 9.0% of mass 176	(6.87)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 1/8/08
BFB Injection Time: 0837
BFB File ID: 5010801
Tekmar Purge Flow: 12.6 mL/min
Vacuum: 6.79 x10^{-6} torr

IS/S Std.#:	1576-131	Exp. Date: 2-26-08
BCM	265081	
1,4-DFB	975601	
CB-d5	739011	

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

Verify 176/174 m/z Ratio: 6144571 / 632806 x 100 = 97.10%

NOAH Cart #: 14/8 **File #:** 5010707/8010807

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 851803\ )}{(\ 975601\ )} \times \frac{(\ 25.0\ )}{(\ 0.88263\ )} =$ 24.730

File ID:	5010805
Compound:	toluene-d8
Initials:	CB

Reported Result 24.730

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5010801	BFB Tune Check	1476-65	50 psig	2mL	1.00	1/8/08	0837	CB	
2	X	02	CCV-1 (200ppbv)	~~1576-203~~ ~~1443-379~~	50 ppbv	50mL			0905	CB	
3	✓	03	LCS-1	1576-171	↓	↓			0933	CB	
4	✓	04	TVH	1443-364	100 ppbv	100mL			1001	CB	
5	✓	05	CCV-1	1443-379	50 ppbv	50mL			1040	CB	
6	X	06	Lab Blank	1294	Humid	200mL			1134	CB	Cert Cart #10 Leg 1
7	✓	07	↓	↓	↓	↓			1227	CB	↓
8	X	08	08010238 11A	3575	50 psig-15	100mL	4.94	↓	1319	CB	E flag PCE > 400 RRE 30mL

CB

Signature

1/8/08

Date

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MSD-5

Logbook #: 1637

9	X	5010809	0801023A-12A	34170	5.0"Hg-15psi	15mL	32.3	1/8/08	1346	CB	RR@ 70mL	
10	✓	10	System Blank	12941	Humid	200mL	1.00		1431	CB		
11	✓	11	0801023A-11A	34575	5.0"Hg-15psi	30mL	16.1		1514	CB		
12	✓	12	-12A	34170	"	70mL	6.91		1542	CB		
13	✓	13	-12AA	↓	↓	↓	↓		1610	CB		
14	X	14	-13A	1739	3.5"Hg-	10mL	45.8		1702	SS	25/1/08 RR@ 22@ 5mL	
15	✓	15	-14A	11444	3.0"Hg-	25mL	17.9		1734	SS		
16	✓	16	0801023A-15A	1739	3.5"Hg-15psi	50mL	9.64		1833	SS		
17	X	17	~~16A~~ 15A	34663	4.0"Hg-15psi	4.2mL	11.6	↓	1904	SS	RR@ 2mL	
18		18	16A	35615	5.0"Hg-15psi	230mL	2.42				25/1/08	
19	✓	5010818	0801023A-~~16A~~ 15A	39663	4.0"Hg-15psi	2.0mL	233	1/8/08	1942	SS		
20	✓	19	24 1/5/08 16A	35615	5.0"Hg-15psi	200mL	2.42		2015	KP/SS		
21	✓	20	System Blank	12941	Humid	200ml	1.00		2056	KP		
22	✓	21	0801012-01A	10001	2.5"Hg-15psi	200ml	2.20		2143	SS		
23	✓	22	0801026-01A	30014	6.0"Hg-15psi	200ml	1.71		2239	SS		
24	✓	23	0801052-01A	25256	1.0"Hg-15psi	200ml	1.39		2312	SS		
25	✓	24	~~0801052~~ 0801062 -02A	4179	5.0"Hg-15psi	15ml	21.5		2340	SS		
26	✓	25	XP 1/5/2008 0801069-01A	21211	4.0"Hg-15psi	200ml	1.11	1/4/08	0012	SS		
27	✓	26	-02A	14872	7.0"Hg-15psi	200ml	1.75		0045	SS		
28	✓	27	-03A	34215	4.0"Hg-15psi	200ml	1.55		0117	SS		
29	✓	28	-04A	12048	0.0"Hg-15psi	200ml	1.34		0150	SS		
30	✓	29	-05A	33553	29.0"Hg-15psi	200ml	1.00		0222	SS		
31												
32												

Comments:

08 1/9/08

Signature

1/9/08
Date

Air Toxics Ltd.

Data file : /chem/msd5.i/5-12nov.b/5111205.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 12-NOV-2007 12:01
Operator : cb Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #1476-65 50 ng
Comment :
Method : /var/chem/msd5.i/5-12nov.b/bfb30.m
Meth Date : 12-Nov-2007 11:51 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

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)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.803	3.900	-0.097	95	996608			100.00- 100.00	100.00
3.803	3.900	-0.097	50	261056			15.00- 40.00	26.19
3.803	3.900	-0.097	75	425344			30.00- 60.00	42.68
3.803	3.900	-0.097	96	63608			5.00- 9.00	6.38
3.803	3.900	-0.097	173	6008			0.00- 2.00	0.85
3.803	3.900	-0.097	174	705472			50.00- 100.00	70.79
3.803	3.900	-0.097	175	51496			5.00- 9.00	7.30
3.803	3.900	-0.097	176	681408			95.00- 101.00	96.59
3.803	3.900	-0.097	177	42960			5.00- 9.00	6.30

Data File: /chem/msd5.i/5-12nov.b/5111205.d

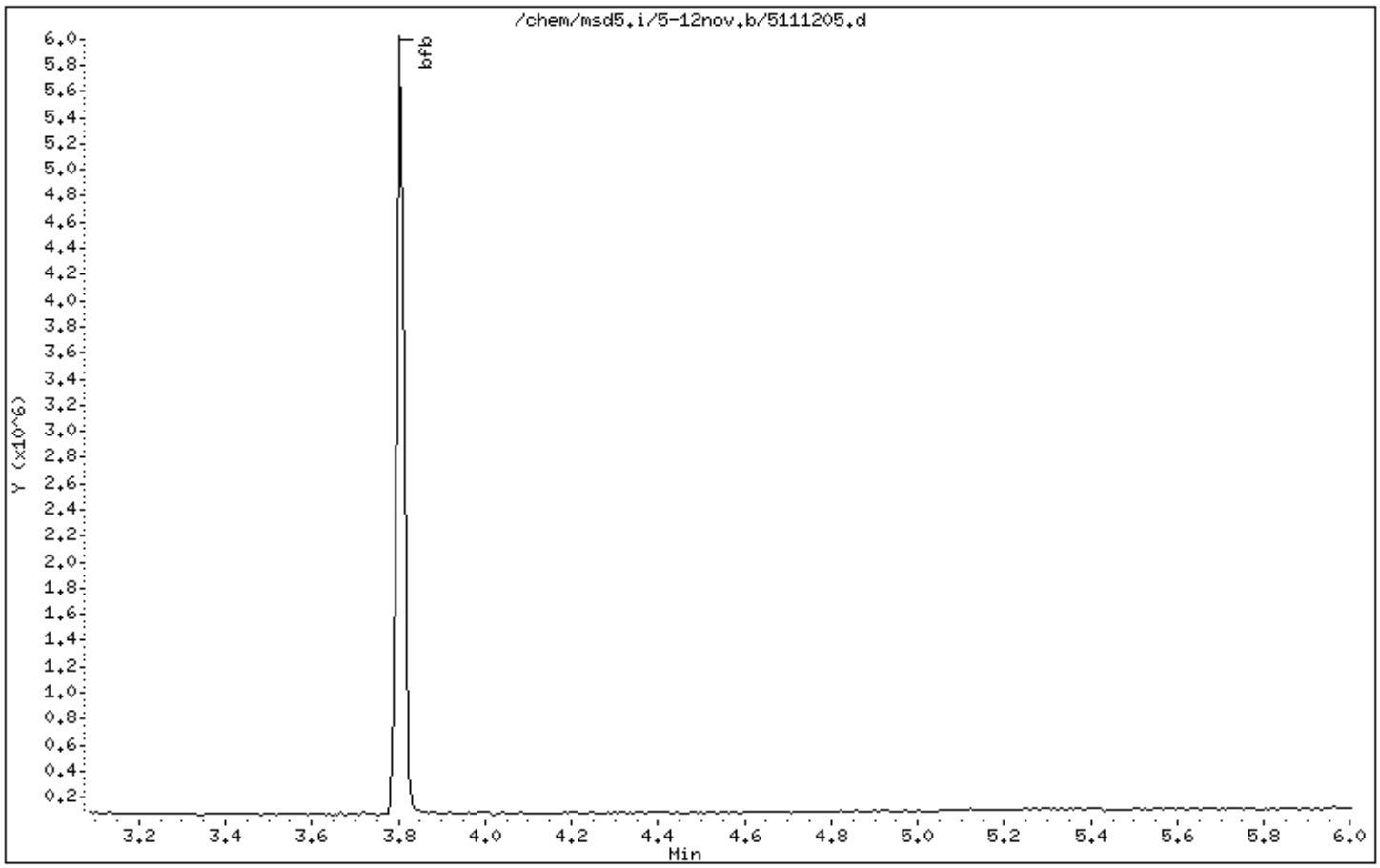
Date : 12-NOV-2007 12:01

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00



Data File: /chem/msd5.i/5-12nov.b/5111205.d

Date : 12-NOV-2007 12:01

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

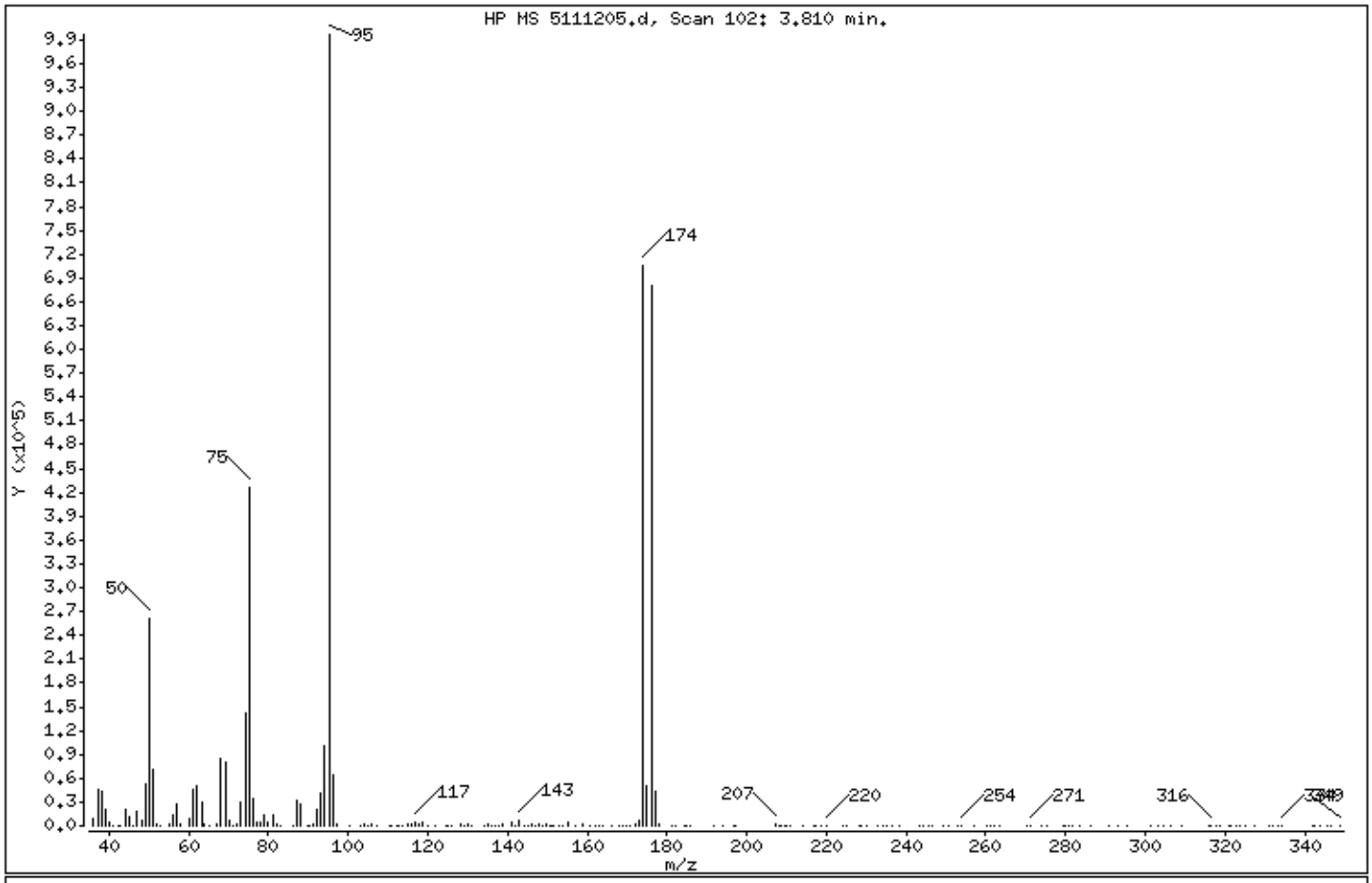
Volume Injected (uL): 1.0

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	15.00 - 40.00% of mass 95	26.19
75	30.00 - 60.00% of mass 95	42.68
96	5.00 - 9.00% of mass 95	6.38
173	Less than 2.00% of mass 174	0.60 (0.85)
174	50.00 - 100.00% of mass 95	70.79
175	5.00 - 9.00% of mass 174	5.17 (7.30)
176	95.00 - 101.00% of mass 174	68.37 (96.59)
177	5.00 - 9.00% of mass 176	4.31 (6.30)

Date : 12-NOV-2007 12:01

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5111205.d
Spectrum: HP MS 5111205.d, Scan 102: 3.810 min.
Location of Maximum: 95.10
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9119	92.00	20568	154.00	392	244.30	205
37.10	44888	93.10	40256	155.00	3494	245.40	292
38.10	43232	94.00	99728	157.00	962	246.60	295
39.10	21016	95.10	996608	158.90	1547	249.50	326
40.00	4505	96.10	63608	160.80	583	250.80	156
40.90	227	97.20	1564	162.10	150	253.10	202
42.10	175	100.30	362	162.80	546	254.00	786
42.80	1108	103.00	367	163.90	238	257.10	380
44.00	20088	103.90	2549	166.30	320	260.10	258
45.00	11319	105.00	1117	167.90	155	261.00	341
46.10	661	105.90	2508	168.70	285	262.00	380
47.00	18032	107.00	868	169.80	420	263.40	474
48.10	7435	110.20	391	170.80	868	270.10	182
49.10	51760	110.70	232	172.00	1941	271.10	821
50.10	261056	112.10	497	173.00	6008	274.10	189
51.10	72008	112.90	524	174.00	705472	275.10	367
52.10	2399	113.80	276	175.00	51496	279.30	210
52.90	405	114.90	1352	176.00	681408	280.10	225
55.20	2972	115.90	2761	177.00	42960	280.70	597
56.00	13678	116.90	3675	177.90	1240	281.70	806
57.10	26512	117.90	2302	181.30	275	283.60	396
58.00	2348	118.80	3444	181.90	232	286.50	239
60.10	8860	120.00	168	184.40	161	290.70	254
61.00	45368	122.00	842	185.00	383	293.20	451
62.00	50064	124.50	228	185.70	165	295.30	170
63.10	30528	125.10	301	191.50	399	301.50	170
64.00	2443	126.00	1056	194.00	311	303.10	182
65.10	751	128.00	2999	196.60	182	304.40	153
67.00	1799	129.10	1003	197.00	158	306.30	157
68.10	84984	129.90	3268	207.20	1736	309.10	332
69.10	81088	130.90	918	208.20	738	315.80	175
70.10	6873	134.00	440	208.80	169	316.50	524
71.00	334	134.90	1206	209.50	172	317.70	269
72.10	2580	135.90	222	210.10	339	318.80	417
73.00	29608	136.70	1066	210.70	570	320.90	356

Date : 12-NOV-2007 12:01

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5111205.d
Spectrum: HP MS 5111205.d, Scan 102: 3.810 min.
Location of Maximum: 95.10
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.10	142848	137.70	454	214.00	180	321.40	152
75.10	425344	138.90	1422	217.00	487	322.70	160
76.00	33808	141.00	4191	217.50	284	323.70	157
77.00	3544	142.00	483	218.50	367	325.30	229
78.10	4667	142.90	7506	219.90	868	327.60	271
78.90	13334	144.20	439	224.10	432	331.10	340
79.90	3485	145.10	762	225.00	162	332.00	188
81.00	14052	145.90	1790	228.20	208	333.40	234
82.00	3233	147.10	501	228.70	156	334.10	704
83.10	374	148.00	1524	230.00	819	341.90	268
86.10	409	148.70	465	232.90	340	342.40	175
87.10	31552	149.70	1469	234.00	756	343.80	499
88.00	28288	150.70	406	235.20	153	345.80	155
89.70	283	151.20	548	236.70	256	346.80	220
90.30	1033	151.70	702	238.50	650	348.80	191
91.00	3140	153.10	1101	243.30	371		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-13nov.b/5111301.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 13-NOV-2007 11:36
Operator : ct Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #1476-65 50 ng
Comment :
Method : /var/chem/msd5.i/5-13nov.b/bfb30.m
Meth Date : 13-Nov-2007 09:26 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.810	3.900	-0.090	95	634304			100.00- 100.00	100.00
3.810	3.900	-0.090	50	169086			15.00- 40.00	26.66
3.810	3.900	-0.090	75	288885			30.00- 60.00	45.54
3.810	3.900	-0.090	96	41776			5.00- 9.00	6.59
3.810	3.900	-0.090	173	1600			0.00- 2.00	0.41
3.810	3.900	-0.090	174	389406			50.00- 100.00	61.39
3.810	3.900	-0.090	175	29272			5.00- 9.00	7.52
3.810	3.900	-0.090	176	379392			95.00- 101.00	97.43
3.810	3.900	-0.090	177	23577			5.00- 9.00	6.21

Data File: /var/chem/msd5.i/5-13nov.b/5111301.d

Date : 13-NOV-2007 11:36

Client ID: BFB

Instrument: msd5.i

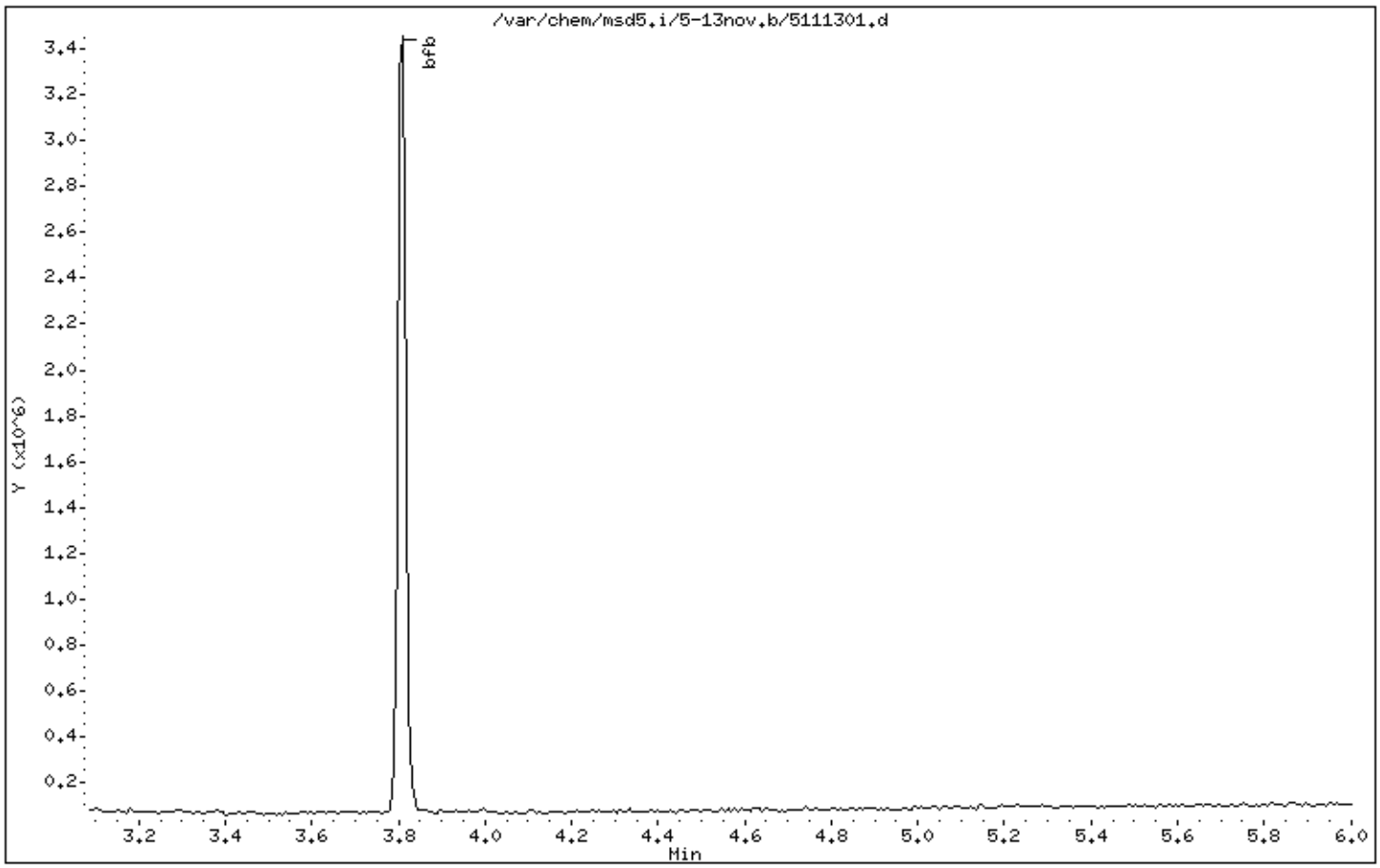
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-13nov.b/5111301.d

Date : 13-NOV-2007 11:36

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

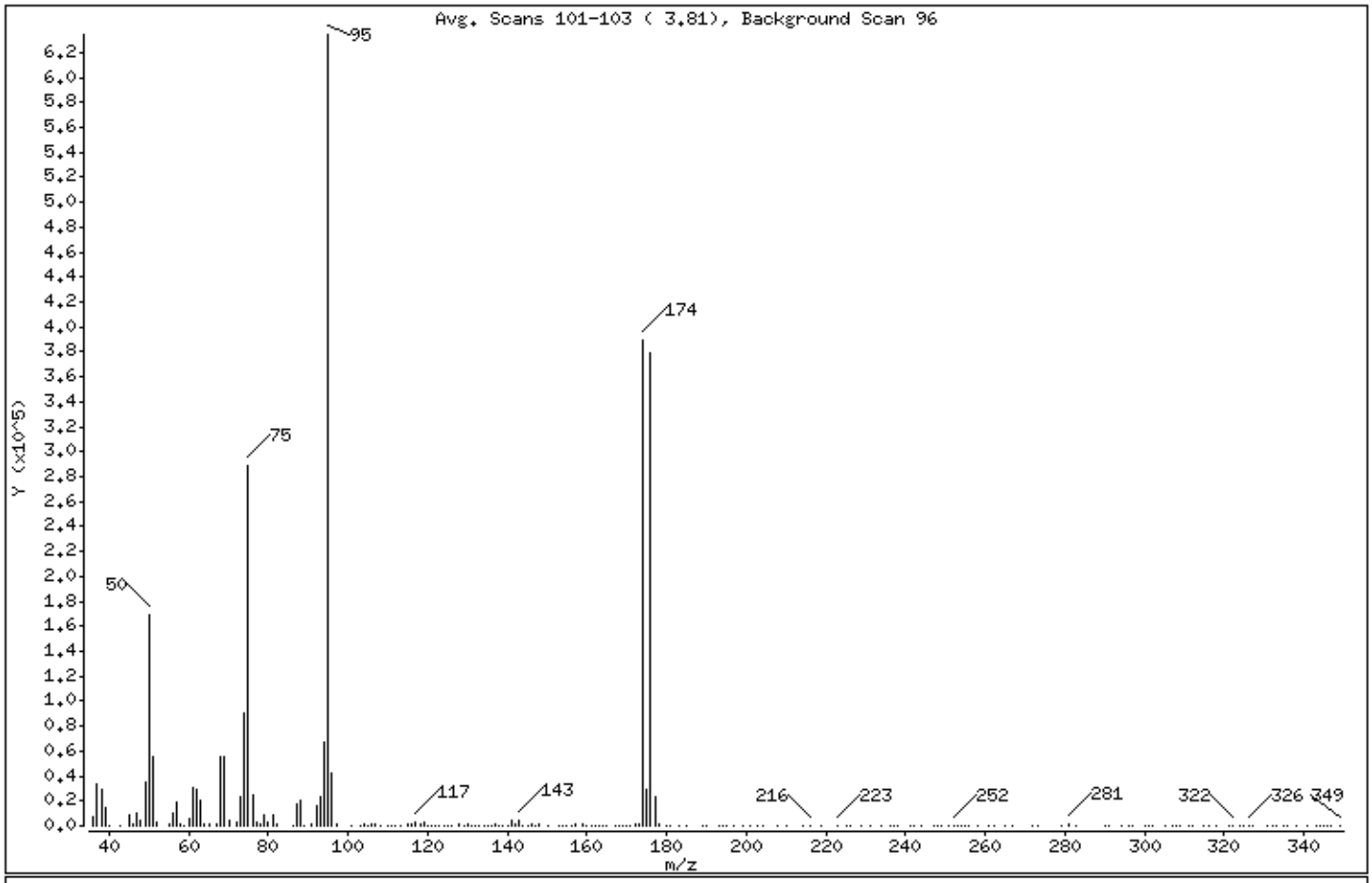
Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.66
75	30.00 - 60.00% of mass 95	45.54
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.25 (0.41)
174	50.00 - 100.00% of mass 95	61.39
175	5.00 - 9.00% of mass 174	4.61 (7.52)
176	95.00 - 101.00% of mass 174	59.81 (97.43)
177	5.00 - 9.00% of mass 176	3.72 (6.21)

Date : 13-NOV-2007 11:36

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: ct

Column phase: Column diameter: 2.00

Data File: 5111301.d
Spectrum: Avg. Scans 101-103 (3.81), Background Scan 96
Location of Maximum: 95.00
Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7266	103.00	533	162.00	54	253.00	15
37.00	33640	104.00	1547	163.00	282	254.00	286
38.00	29152	105.00	137	164.00	203	255.00	42
39.00	14159	106.00	1845	165.00	95	256.00	92
40.00	652	107.00	944	167.00	253	258.00	172
43.00	10	108.00	313	168.00	522	261.00	93
45.00	8414	110.00	249	169.00	274	262.00	245
46.00	980	111.00	600	170.00	683	265.00	211
47.00	9950	112.00	352	171.00	702	267.00	311
48.00	4612	113.00	69	172.00	1887	272.00	183
49.00	35008	115.00	1006	173.00	1600	273.00	131
50.00	169024	116.00	814	174.00	389376	279.00	343
51.00	56072	117.00	2882	175.00	29272	281.00	762
52.00	2489	118.00	1225	176.00	379392	283.00	99
55.00	1699	119.00	2811	177.00	23576	290.00	259
56.00	9519	120.00	208	178.00	1449	291.00	219
57.00	18488	121.00	90	180.00	56	294.00	84
58.00	835	122.00	139	181.00	268	296.00	108
59.00	259	123.00	265	183.00	74	297.00	140
60.00	6272	124.00	110	185.00	214	300.00	231
61.00	30008	125.00	602	189.00	142	301.00	72
62.00	28472	126.00	592	190.00	109	302.00	112
63.00	20720	128.00	1149	193.00	36	305.00	256
64.00	1581	129.00	466	194.00	221	307.00	170
65.00	817	130.00	2024	195.00	118	308.00	78
67.00	961	131.00	634	197.00	65	309.00	51
68.00	54800	132.00	160	199.00	77	311.00	61
69.00	54816	133.00	310	201.00	118	312.00	161
70.00	3978	134.00	455	203.00	130	315.00	87
72.00	2245	135.00	515	204.00	62	316.00	229
73.00	23784	136.00	91	208.00	21	318.00	260
74.00	89960	137.00	922	210.00	82	321.00	121
75.00	288832	138.00	564	214.00	86	322.00	631
76.00	25160	139.00	326	216.00	247	324.00	126
77.00	2419	140.00	347	219.00	232	325.00	87

Data File: /var/chem/msd5.i/5-13nov.b/5111301.d

Date : 13-NOV-2007 11:36

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00

Data File: 5111301.d
Spectrum: Avg. Scans 101-103 (3.81), Background Scan 96
Location of Maximum: 95.00
Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	1213	141.00	3959	223.00	276	326.00	440
79.00	9390	142.00	793	225.00	122	327.00	57
80.00	2355	143.00	5060	226.00	91	331.00	147
81.00	8687	144.00	53	229.00	255	332.00	134
82.00	1771	145.00	147	231.00	154	333.00	116
86.00	440	146.00	814	234.00	62	335.00	89
87.00	17888	147.00	20	236.00	75	336.00	319
88.00	20448	148.00	1388	237.00	68	338.00	110
89.00	348	150.00	313	238.00	111	341.00	219
91.00	1036	153.00	645	241.00	55	343.00	140
92.00	15548	154.00	348	242.00	52	344.00	112
93.00	23368	155.00	688	244.00	263	345.00	119
94.00	66704	156.00	198	247.00	86	346.00	59
95.00	634304	157.00	810	248.00	232	347.00	44
96.00	41776	159.00	987	249.00	153	349.00	160
97.00	1019	160.00	129	251.00	83		
101.00	62	161.00	389	252.00	390		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-19nov.b/5111901.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 19-NOV-2007 00:33
Operator : ab Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-65 50 ng
Comment :
Method : /var/chem/msd5.i/5-19nov.b/bfb30.m
Meth Date : 19-Nov-2007 00:23 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.810	3.900	-0.090	95	993301			100.00- 100.00	100.00
3.810	3.900	-0.090	50	261826			15.00- 40.00	26.36
3.810	3.900	-0.090	75	471886			30.00- 60.00	47.51
3.810	3.900	-0.090	96	66493			5.00- 9.00	6.69
3.810	3.900	-0.090	173	4811			0.00- 2.00	0.76
3.810	3.900	-0.090	174	636565			50.00- 100.00	64.09
3.810	3.900	-0.090	175	46616			5.00- 9.00	7.32
3.810	3.900	-0.090	176	619498			95.00- 101.00	97.32
3.810	3.900	-0.090	177	37874			5.00- 9.00	6.11

Data File: /var/chem/msd5.i/5-19nov.b/5111901.d

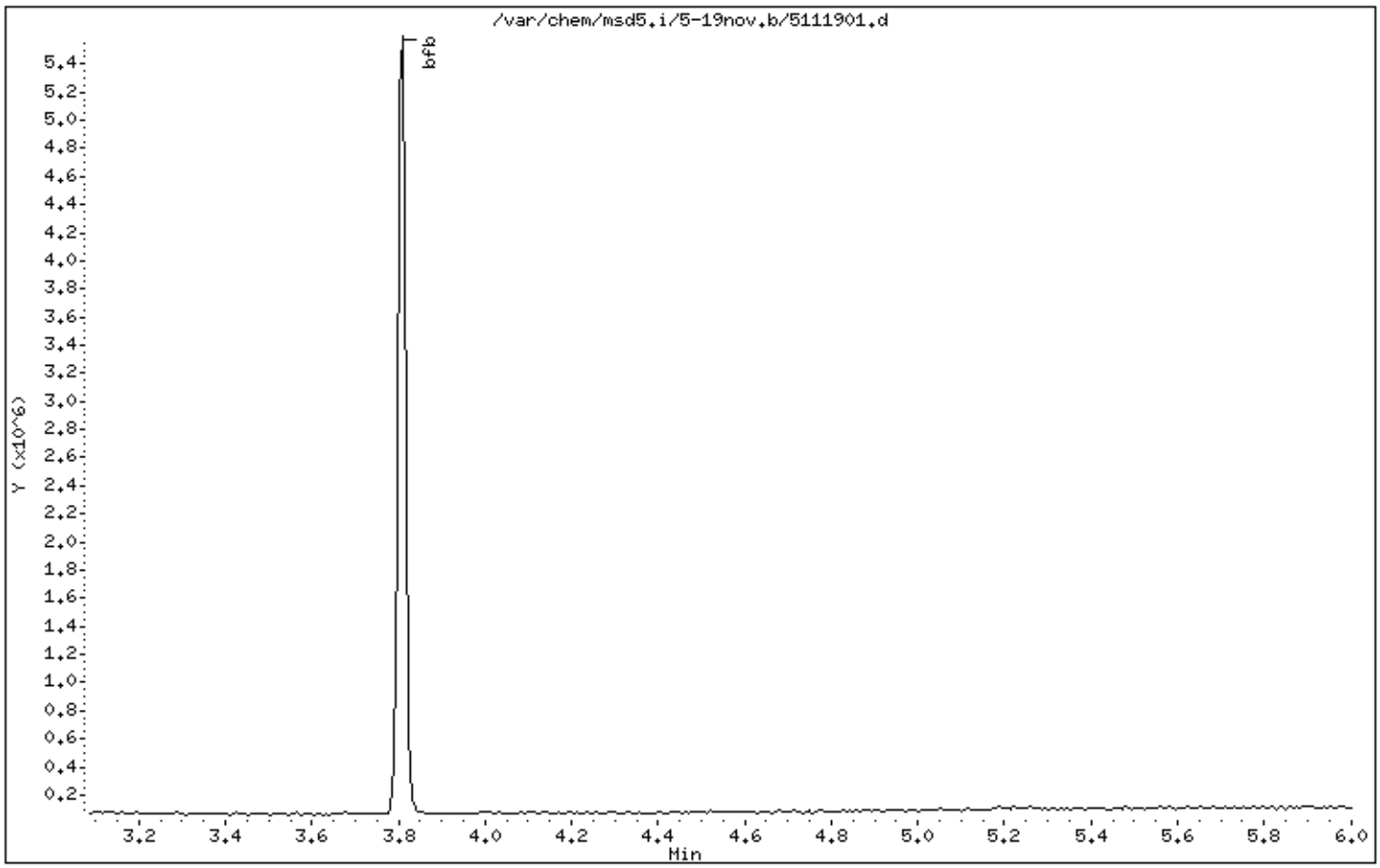
Date : 19-NOV-2007 00:33

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: ab

Column phase: Column diameter: 2.00



Data File: /var/chem/msd5.i/5-19nov.b/5111901.d

Date : 19-NOV-2007 00:33

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

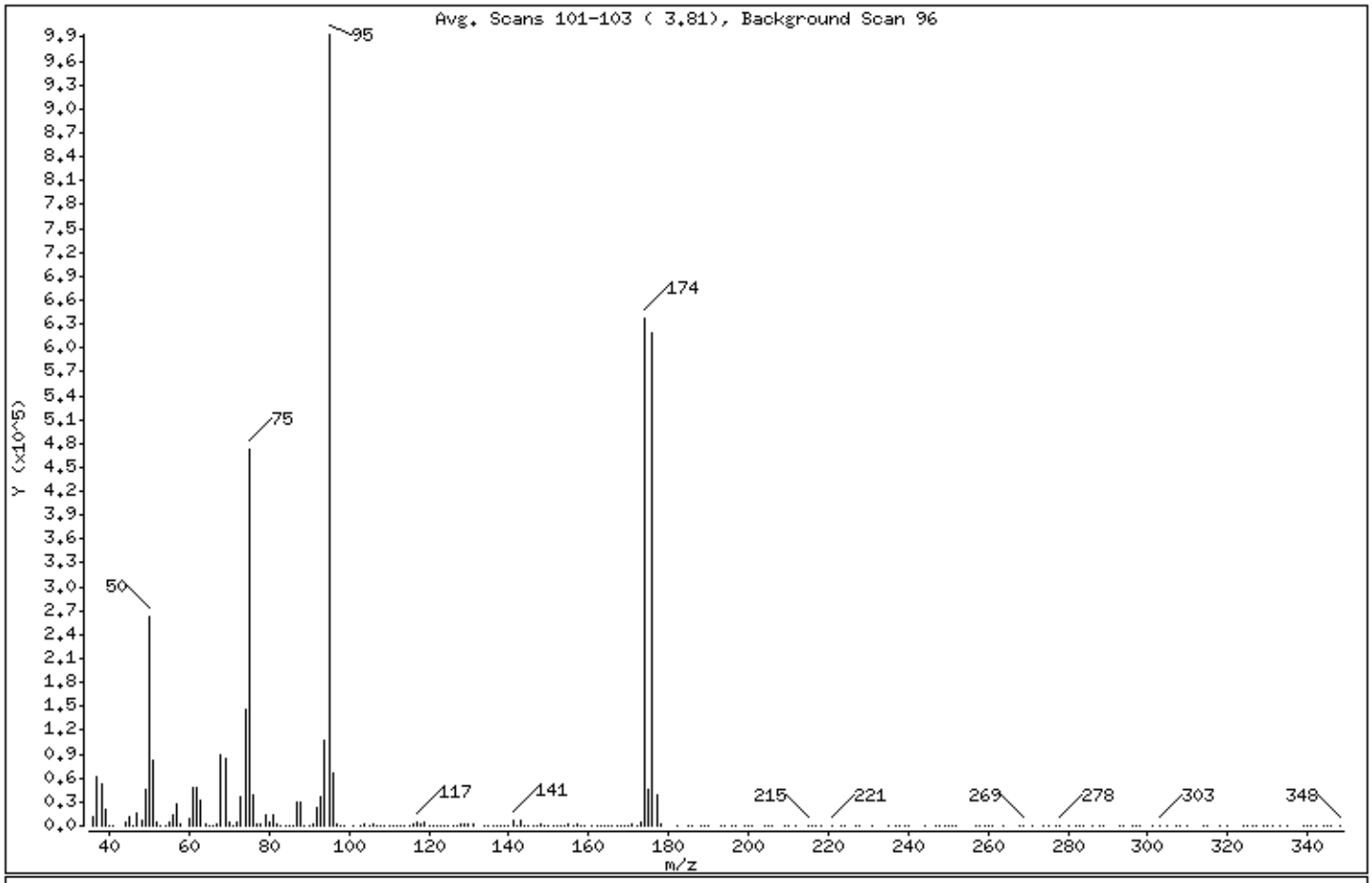
Volume Injected (uL): 1.0

Operator: ab

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.36
75	30.00 - 60.00% of mass 95	47.51
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.48 (0.76)
174	50.00 - 100.00% of mass 95	64.09
175	5.00 - 9.00% of mass 174	4.69 (7.32)
176	95.00 - 101.00% of mass 174	62.37 (97.32)
177	5.00 - 9.00% of mass 176	3.81 (6.11)

Data File: /var/chem/msd5.i/5-19nov.b/5111901.d

Date : 19-NOV-2007 00:33

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ab

Column phase:

Column diameter: 2.00

Data File: 5111901.d
Spectrum: Avg. Scans 101-103 (3.81), Background Scan 96
Location of Maximum: 95.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10571	97.00	1471	159.00	728	251.00	74
37.00	61408	98.00	19	161.00	945	252.00	76
38.00	51488	99.00	223	162.00	229	257.00	102
39.00	21096	101.00	111	163.00	394	258.00	95
40.00	290	103.00	85	164.00	311	259.00	187
41.00	518	104.00	2891	165.00	118	260.00	99
44.00	5241	105.00	1085	166.00	234	261.00	114
45.00	10939	106.00	2306	167.00	207	264.00	4
46.00	628	107.00	738	168.00	464	268.00	220
47.00	17000	108.00	350	169.00	467	269.00	457
48.00	6166	109.00	508	170.00	714	271.00	282
49.00	46688	110.00	335	171.00	1222	274.00	194
50.00	261824	111.00	621	172.00	42	275.00	159
51.00	83344	112.00	503	173.00	4811	277.00	82
52.00	4374	113.00	658	174.00	636544	278.00	470
53.00	297	114.00	173	175.00	46616	280.00	60
54.00	244	115.00	433	176.00	619456	282.00	205
55.00	3528	116.00	2464	177.00	37872	283.00	68
56.00	14693	117.00	4294	178.00	1531	284.00	54
57.00	27632	118.00	2384	182.00	96	286.00	218
58.00	1633	119.00	3555	185.00	123	288.00	226
60.00	9728	120.00	422	186.00	124	289.00	278
61.00	49024	121.00	337	188.00	196	293.00	144
62.00	47264	122.00	31	189.00	94	294.00	284
63.00	32584	123.00	390	190.00	53	296.00	53
64.00	2219	124.00	830	193.00	255	297.00	121
65.00	119	125.00	473	194.00	85	298.00	16
66.00	210	126.00	536	196.00	83	301.00	67
67.00	2367	127.00	328	197.00	50	303.00	336
68.00	89808	128.00	2314	199.00	53	305.00	219
69.00	84920	129.00	2002	200.00	287	307.00	136
70.00	5464	130.00	2967	201.00	271	308.00	221
71.00	183	131.00	1151	204.00	141	310.00	110
72.00	3437	134.00	192	205.00	233	314.00	103
73.00	35464	135.00	753	206.00	245	315.00	110

Date : 19-NOV-2007 00:33

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: ab

Column phase: Column diameter: 2.00

Data File: 5111901.d
Spectrum: Avg. Scans 101-103 (3.81), Background Scan 96
Location of Maximum: 95.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	146560	136.00	202	209.00	121	318.00	175
75.00	471872	137.00	715	210.00	315	320.00	323
76.00	39192	138.00	324	212.00	102	324.00	90
77.00	3322	139.00	160	215.00	427	325.00	100
78.00	2899	140.00	905	216.00	70	326.00	54
79.00	13604	141.00	6338	217.00	111	327.00	85
80.00	5043	142.00	901	218.00	135	329.00	125
81.00	14167	143.00	6229	221.00	364	330.00	62
82.00	2940	144.00	104	223.00	74	331.00	63
83.00	904	145.00	476	224.00	208	333.00	92
84.00	149	146.00	276	227.00	82	335.00	66
85.00	219	147.00	392	228.00	67	339.00	175
86.00	621	148.00	1772	231.00	239	340.00	55
87.00	30744	149.00	464	235.00	94	341.00	17
88.00	30376	150.00	756	237.00	66	342.00	277
89.00	1107	151.00	215	238.00	69	344.00	95
90.00	45	152.00	412	239.00	319	345.00	129
91.00	2158	153.00	223	240.00	210	346.00	76
92.00	22152	154.00	857	244.00	72	348.00	334
93.00	36112	155.00	1309	247.00	315		
94.00	108128	156.00	374	248.00	154		
95.00	993280	157.00	1381	249.00	155		
96.00	66488	158.00	309	250.00	147		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-27nov.b/5112701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 27-NOV-2007 08:56
Operator : cb Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-65 50 ng
Comment :
Method : /var/chem/msd5.i/5-27nov.b/bfb30.m
Meth Date : 27-Nov-2007 08:47 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.796	3.900	-0.104	95	690854			100.00- 100.00	100.00
3.796	3.900	-0.104	50	201322			15.00- 40.00	29.14
3.796	3.900	-0.104	75	336719			30.00- 60.00	48.74
3.796	3.900	-0.104	96	45282			5.00- 9.00	6.55
3.796	3.900	-0.104	173	2714			0.00- 2.00	0.65
3.796	3.900	-0.104	174	419349			50.00- 100.00	60.70
3.796	3.900	-0.104	175	29427			5.00- 9.00	7.02
3.796	3.900	-0.104	176	412821			95.00- 101.00	98.44
3.796	3.900	-0.104	177	24457			5.00- 9.00	5.92

Data File: /var/chem/msd5.i/5-27nov.b/5112701.d

Date : 27-NOV-2007 08:56

Client ID: BFB

Instrument: msd5.i

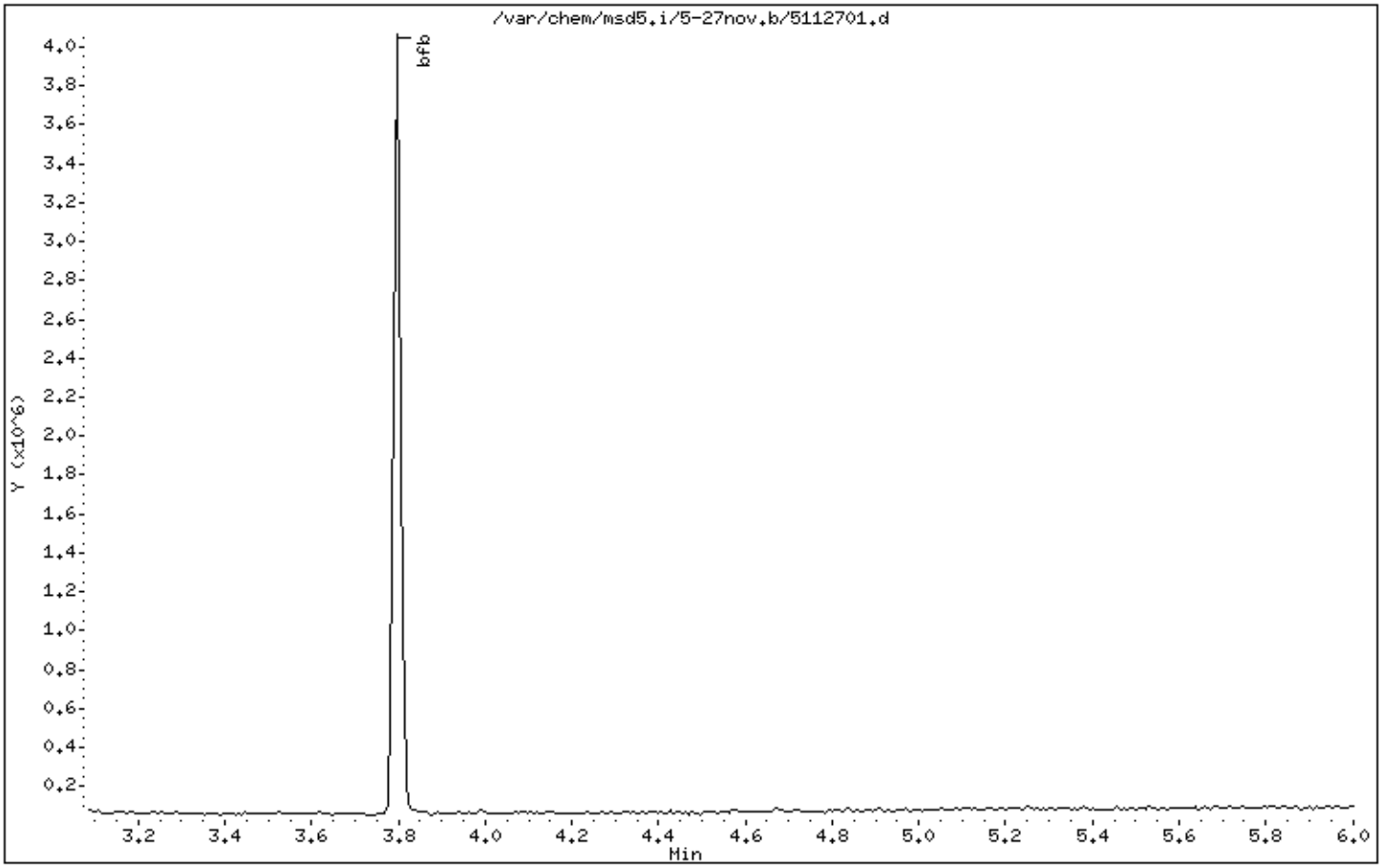
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-27nov.b/5112701.d

Date : 27-NOV-2007 08:56

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

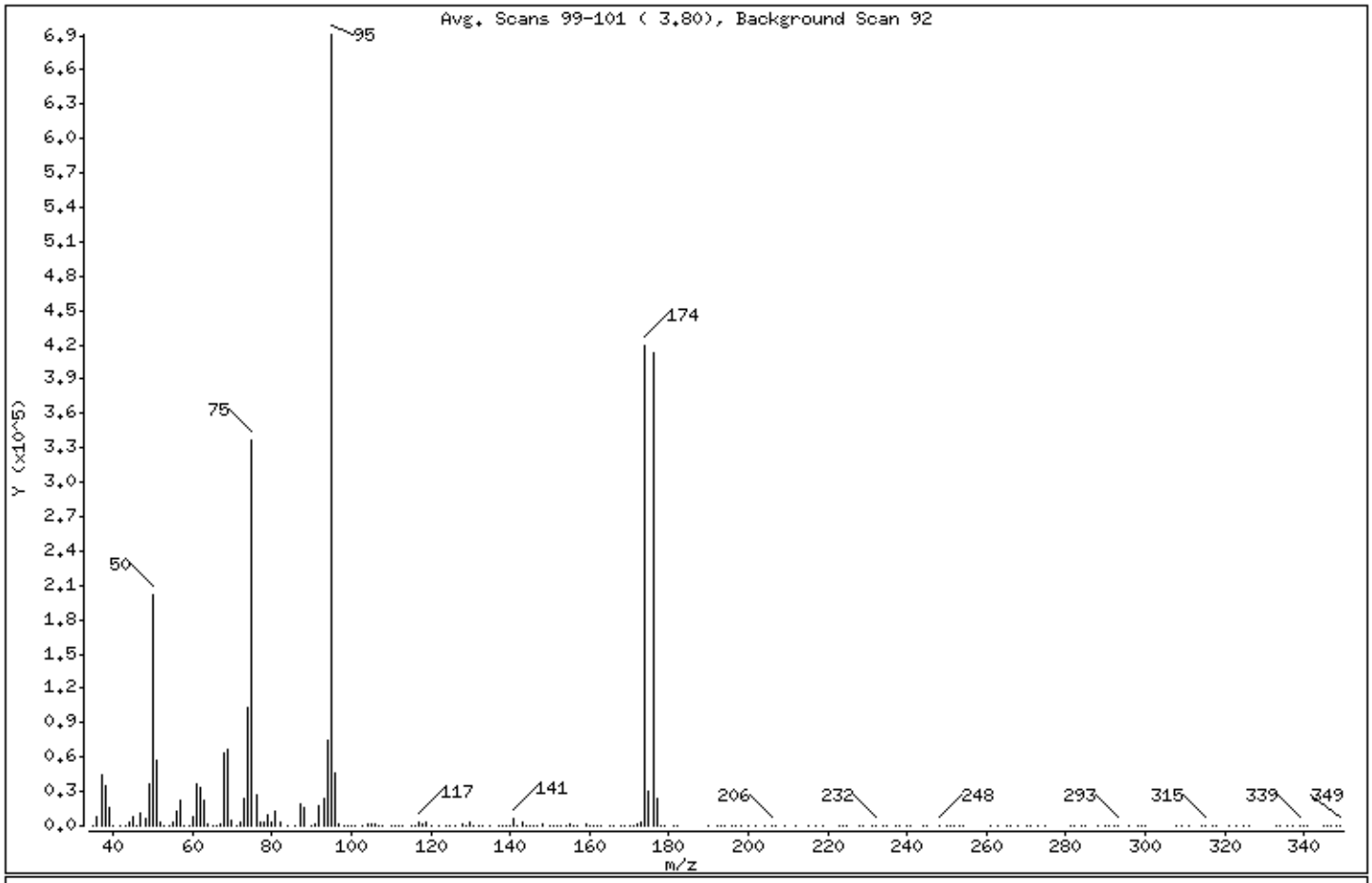
Volume Injected (uL): 1.0

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	15.00 - 40.00% of mass 95	29.14
75	30.00 - 60.00% of mass 95	48.74
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.39 (0.65)
174	50.00 - 100.00% of mass 95	60.70
175	5.00 - 9.00% of mass 174	4.26 (7.02)
176	95.00 - 101.00% of mass 174	59.76 (98.44)
177	5.00 - 9.00% of mass 176	3.54 (5.92)

Data File: /var/chem/msd5.i/5-27nov.b/5112701.d

Date : 27-NOV-2007 08:56

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5112701.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	357	93.00	23432	156.00	358	245.00	259
36.00	8617	94.00	74888	157.00	604	248.00	367
37.00	43720	95.00	690816	159.00	874	250.00	190
38.00	35504	96.00	45280	160.00	67	251.00	157
39.00	15127	97.00	1469	161.00	613	252.00	134
40.00	688	98.00	283	162.00	56	253.00	11
42.00	5	99.00	52	163.00	463	254.00	213
43.00	300	100.00	294	165.00	298	261.00	58
44.00	3014	101.00	153	166.00	6	263.00	68
45.00	8490	103.00	94	168.00	215	265.00	220
46.00	528	104.00	2273	169.00	416	266.00	98
47.00	11577	105.00	1166	170.00	289	268.00	265
48.00	6464	106.00	2312	171.00	267	270.00	262
49.00	36152	107.00	314	172.00	1472	271.00	306
50.00	201280	108.00	80	173.00	2714	273.00	113
51.00	57200	110.00	535	174.00	419328	275.00	104
52.00	2553	111.00	473	175.00	29424	281.00	140
53.00	94	112.00	151	176.00	412800	282.00	191
54.00	210	113.00	774	177.00	24456	284.00	120
55.00	2389	115.00	598	178.00	754	285.00	132
56.00	12151	116.00	770	179.00	319	288.00	103
57.00	21488	117.00	2927	181.00	98	290.00	59
58.00	491	118.00	2302	182.00	171	291.00	135
59.00	179	119.00	2849	190.00	189	292.00	107
60.00	7160	120.00	23	192.00	341	293.00	393
61.00	36696	122.00	250	193.00	209	296.00	117
62.00	33968	124.00	29	194.00	115	298.00	183
63.00	22080	125.00	422	196.00	109	299.00	112
64.00	2166	126.00	204	197.00	130	300.00	173
65.00	776	128.00	1289	198.00	106	308.00	219
66.00	100	129.00	793	200.00	319	309.00	77
67.00	2051	130.00	2553	202.00	187	311.00	131
68.00	64168	131.00	706	204.00	175	314.00	72
69.00	67272	132.00	258	206.00	428	315.00	469
70.00	4599	133.00	211	207.00	85	317.00	98

Date : 27-NOV-2007 08:56

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5112701.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	427	135.00	671	209.00	378	318.00	148
72.00	2768	137.00	729	212.00	136	321.00	144
73.00	23816	138.00	157	215.00	197	323.00	76
74.00	103328	139.00	120	217.00	138	325.00	59
75.00	336704	140.00	287	219.00	154	326.00	63
76.00	27720	141.00	5907	223.00	151	333.00	140
77.00	2928	142.00	585	224.00	63	334.00	119
78.00	2767	143.00	3621	225.00	109	336.00	318
79.00	10156	144.00	266	228.00	56	337.00	178
80.00	2842	145.00	148	229.00	76	339.00	355
81.00	12633	146.00	629	231.00	11	340.00	263
82.00	2425	147.00	158	232.00	245	341.00	170
84.00	51	148.00	1520	234.00	200	345.00	54
86.00	731	150.00	775	235.00	192	346.00	73
87.00	18864	151.00	108	237.00	130	347.00	275
88.00	16266	152.00	356	238.00	94	348.00	249
90.00	334	153.00	443	240.00	230	349.00	148
91.00	1978	154.00	154	241.00	233		
92.00	16848	155.00	1487	244.00	81		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-08jan.b/5010801.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 08-JAN-2008 08:37
Operator : cb Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-65 50 ng
Comment :
Method : /var/chem/msd5.i/5-08jan.b/bfb30.m
Meth Date : 08-Jan-2008 08:27 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.796	3.900	-0.104	95	952662			100.00- 100.00	100.00
3.796	3.900	-0.104	50	288134			15.00- 40.00	30.25
3.796	3.900	-0.104	75	478336			30.00- 60.00	50.21
3.796	3.900	-0.104	96	63646			5.00- 9.00	6.68
3.796	3.900	-0.104	173	4520			0.00- 2.00	0.71
3.796	3.900	-0.104	174	632806			50.00- 100.00	66.43
3.796	3.900	-0.104	175	45344			5.00- 9.00	7.17
3.796	3.900	-0.104	176	614457			95.00- 101.00	97.10
3.796	3.900	-0.104	177	42197			5.00- 9.00	6.87

Data File: /var/chem/msd5.i/5-08jan.b/5010801.d

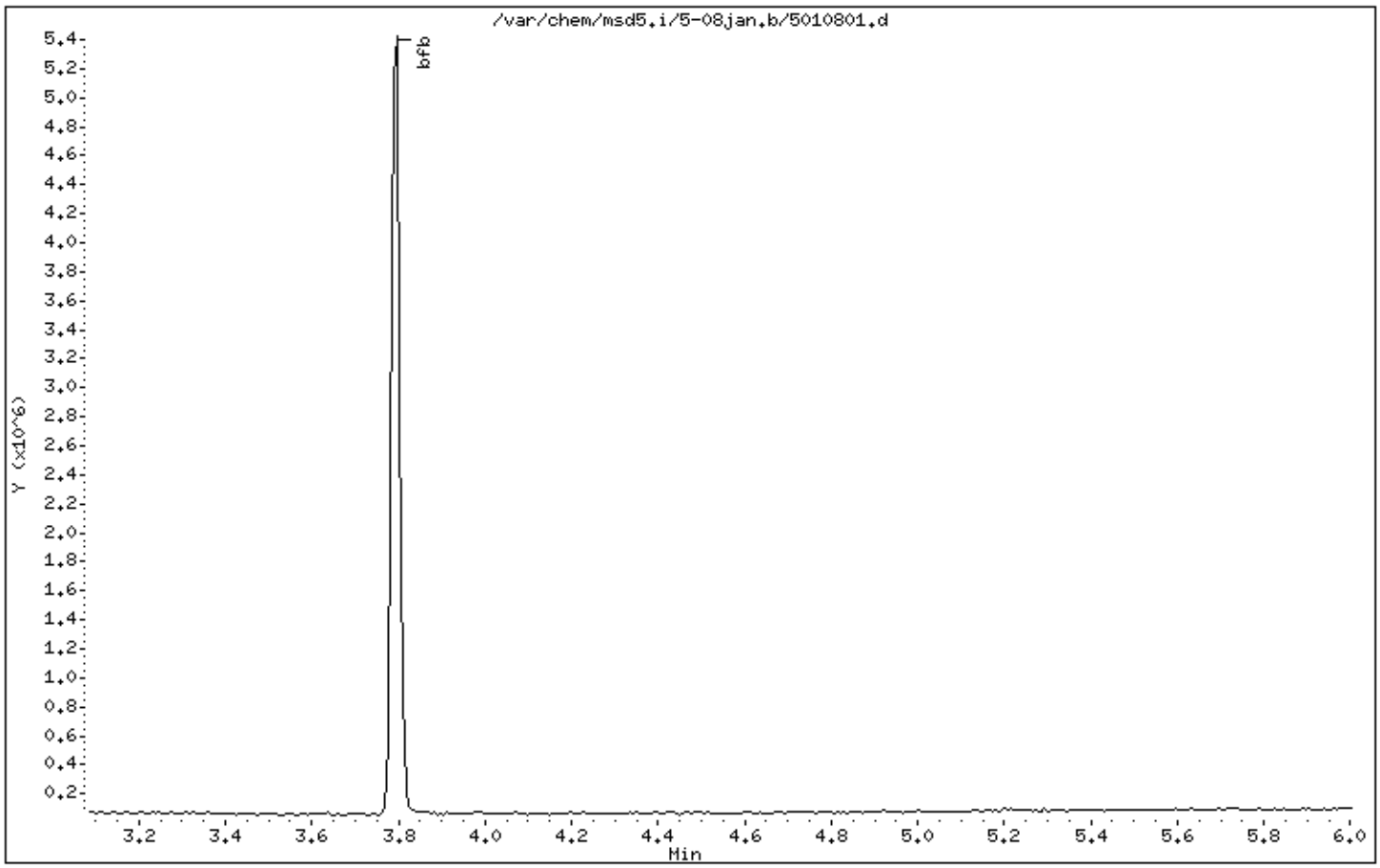
Date : 08-JAN-2008 08:37

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00



Data File: /var/chem/msd5.i/5-08jan.b/5010801.d

Date : 08-JAN-2008 08:37

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

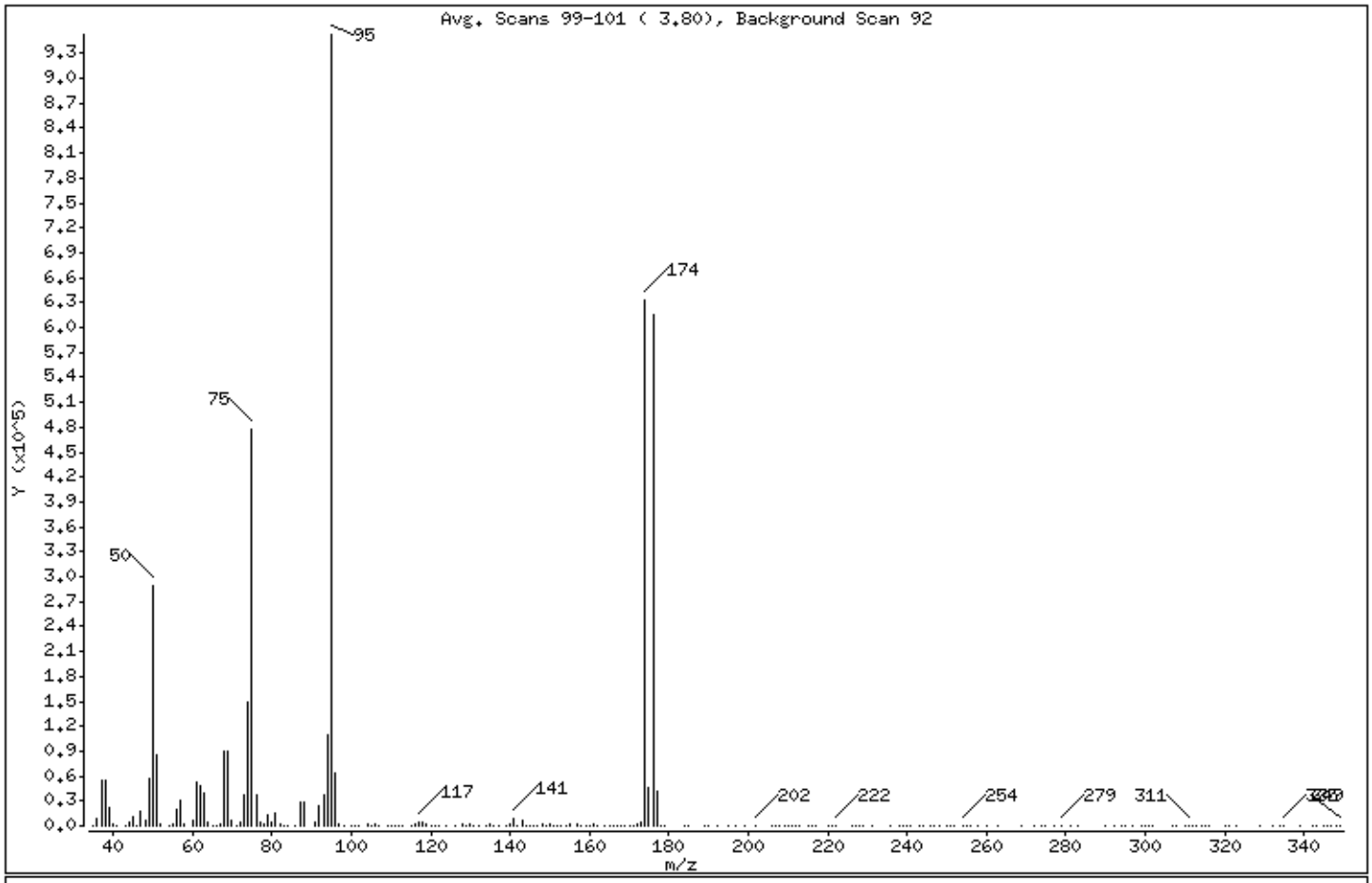
Volume Injected (uL): 1.0

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	15.00 - 40.00% of mass 95	30.25
75	30.00 - 60.00% of mass 95	50.21
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.47 (0.71)
174	50.00 - 100.00% of mass 95	66.43
175	5.00 - 9.00% of mass 174	4.76 (7.17)
176	95.00 - 101.00% of mass 174	64.50 (97.10)
177	5.00 - 9.00% of mass 176	4.43 (6.87)

Date : 08-JAN-2008 08:37

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5010801.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	116	96.00	63640	161.00	1593	248.00	68
36.00	9396	97.00	1699	162.00	585	250.00	126
37.00	55120	98.00	90	164.00	226	251.00	306
38.00	55592	100.00	64	165.00	292	252.00	207
39.00	22816	101.00	266	166.00	533	254.00	698
40.00	1417	102.00	111	167.00	466	255.00	474
41.00	33	104.00	2815	168.00	157	256.00	76
43.00	469	105.00	870	169.00	188	258.00	132
44.00	4116	106.00	2875	170.00	757	260.00	116
45.00	10783	107.00	1010	171.00	57	263.00	167
46.00	402	109.00	168	172.00	1836	269.00	195
47.00	17816	110.00	834	173.00	4520	272.00	93
48.00	6774	111.00	295	174.00	632768	274.00	51
49.00	56952	112.00	822	175.00	45344	275.00	172
50.00	288128	113.00	681	176.00	614400	277.00	256
51.00	84496	115.00	472	177.00	42192	279.00	400
52.00	3060	116.00	2445	178.00	1080	281.00	212
54.00	59	117.00	5066	179.00	201	283.00	93
55.00	3038	118.00	3514	184.00	119	290.00	154
56.00	19416	119.00	2691	185.00	123	292.00	177
57.00	29576	120.00	78	189.00	66	294.00	64
58.00	1175	121.00	57	190.00	75	295.00	170
60.00	6724	122.00	700	192.00	46	297.00	54
61.00	51744	124.00	455	195.00	233	299.00	59
62.00	48848	126.00	387	197.00	196	300.00	77
63.00	39440	128.00	2236	199.00	113	301.00	65
64.00	3748	129.00	877	202.00	382	302.00	153
65.00	514	130.00	2323	206.00	50	307.00	79
66.00	20	131.00	925	207.00	353	308.00	70
67.00	1800	132.00	454	208.00	211	310.00	147
68.00	90544	134.00	150	209.00	110	311.00	297
69.00	90312	135.00	1404	210.00	127	312.00	177
70.00	6813	136.00	344	211.00	64	313.00	85
71.00	208	137.00	723	212.00	115	314.00	65
72.00	3546	139.00	288	213.00	232	315.00	113

Data File: /var/chem/msd5.i/5-08jan.b/5010801.d

Date : 08-JAN-2008 08:37

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5010801.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	36944	140.00	1420	215.00	90	316.00	77
74.00	148224	141.00	8763	216.00	171	320.00	185
75.00	478336	142.00	683	217.00	89	321.00	143
76.00	37480	143.00	6252	220.00	62	323.00	83
77.00	4091	144.00	782	221.00	61	329.00	113
78.00	2986	145.00	824	222.00	388	332.00	145
79.00	13822	146.00	1067	226.00	174	334.00	138
80.00	4291	147.00	816	227.00	155	335.00	345
81.00	15976	148.00	1976	228.00	57	339.00	256
82.00	2910	149.00	747	229.00	111	342.00	133
83.00	293	150.00	1274	231.00	160	343.00	316
84.00	143	151.00	161	236.00	323	345.00	103
86.00	490	152.00	539	238.00	57	346.00	51
87.00	27920	153.00	1085	239.00	60	347.00	167
88.00	29000	154.00	666	240.00	97	348.00	200
91.00	3428	155.00	1686	241.00	240	349.00	53
92.00	24584	157.00	1779	243.00	307		
93.00	36856	158.00	499	244.00	99		
94.00	108784	159.00	449	246.00	58		
95.00	952640	160.00	54	247.00	178		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0801026
# of pages (Including Cover): 1

1/18/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

The following discrepancy has been observed:

The summa canister for sample UW AMS 7 was leaking upon arrival and canister valve was open. At your request, this sample has been cancelled.

Your prompt response is appreciated.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

0235

Contact		**Project Info:**	**Turn Around Time:**
Company	GEI Consultants, Inc.	P.O. #	☒ Normal
Address	455 Winding Brook Glastonbury CT 06033	Project # 061140 - 8 - 1703	☐ Rush _____
Phone	860-368-5300 Cell:	Project Name BayShore OU1 Southern cell Air Monitoring	Specify
Collected By: Signature:			

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	DW AMS7 34014	01/02/08 0700/1500	TO-15 + Naphthalene	-28.5	-5.0	
02A	UW AMS7 9423	01/02/08 0700/1500	TO-15 + Naphthalene	-29.5	-2.0	

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
01/02/08 1575	ATL 01/03/08 9:10
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

Notes: used flow controllers included
initial and final can pressures in inches Hg
Send Data Pack to Lisa McDonough and EDD to
datagroup@geiconsultants.com

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8620 3516 5634		NA	Good	Yes No (None)	080126

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0801026

Client

Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 01/17/08
Date Completed: 1/17/08
Date Received: 1/3/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 747.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 1	Modified TO-15	1/2/2008	6.5 "Hg	$225.00
02A(cancelled)	UW AMS 7	Modified TO-15	1/2/2008	3.5psi	$0.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (6) @ $50.00 each., Shipment 54019	$300.00
	Blue Body Flow Controller (6) @ $35.00 each., Shipment 54019	$210.00
	Fuel Surcharge (6) @ $2.00 each.	$12.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Bay Shore OU1 South Perimeter Air/9699

BILL TO: Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: B. Stephens **Date:** 11/4/08

Discrepancy Type: (circle all that apply) I. (II.) III.

Workorder(s) affected: 0801026 **Sample(s) affected:** 02A

I. Sample Receipt Discrepancies

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

Narration not required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister.
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm.

Narration Required:

- ☐ COC improperly relinquished / received.
- ☐ Sample tags / can numbers do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: _____

II. Sample Receipt/Screening Discrepancies requiring CSR notification

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

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

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for some / any samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☑ Canister was at ambient pressure at time of pressurization and (check all that apply): ☑ canister failed leak check on two manifolds, ☑ canister valve was open, ☐ brass nut was loose. Sample can / cannot be analyzed (circle one). see below BB 11/4/08
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☐ Canister sample received at >15"Hg (not identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☑ Other (describe below)

Initials: _____ **Date:** _____ ☐ **CSR Notified** (see section below)
(if not the original initiator)

Describe the Discrepancy: Unable to measure initial vacuum due to leak. After use of strap wrench to force valve closed on 3rd attempt of pressurization, initial reading was 3.5 psi. Canister was pressurized to 5.0psi and analyzed. BB 11/4/08

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

- ☐ Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (circle one) be analyzed.
- ☐ Tedlar Bag found to be flat at the time of analysis.
- ☐ Canister found to be leaking at the time of analysis.
- ☐ Tedlar Bag received at low volume; sample cannot be analyzed.
- ☐ Sulfur samples received with insufficient time to analyze prior to expiration.
- ☐ VOST tube saturated; bag dilution necessary.
- ☐ Sample loss due to instrument malfunction / broken glassware.
- ☐ Other (describe below).

Initials: _____ **Date:** _____ ☐ **CSR Notified**
(If not the original initiator) (see section below)

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

Describe the Discrepancy: _____

_____

Client Services Use Only

Client Services Notification

CSR notified: _____ Date: _____

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy by documenting on cover page of Sample Receipt Confirmation and in Receiving Notes/Analytical Notes of Lab Narrative.

CSR Initials: _____ Date: _____

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

Client Notification:

Person notified: S. Aldridge Date: 1/7/08

Comments: Cancel Analysis on 02A

_____

☐ Lab notified Name: _____ Date: _____

Additional Notifications

CSR notified: _____ Date: _____

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy by documenting on cover page of Sample Receipt Confirmation and in Receiving Notes/Analytical Notes of Lab Narrative.

CSR Initials: _____ Date: _____

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

Client Notification:

Person notified: _____ Date: _____

Comments: _____

_____

☐ Lab notified Name: _____ Date: _____

☐ **Additional notifications attached.**

Other Records

DILUTION FACTORS

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38
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

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

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
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	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	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	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0801026

A	R	T	M	Q	
☑	☐	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☐	☐	☐	☐	The final report has the correct reporting list, special units, and header info.
	☐	☐	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	☐	☐	☐	☐	Corrective Action issued - #_____
NA	☐	☐	☐	☐	Unusual circumstances have been documented in the notes section below

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

☑	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	Hold time is met for all samples
	☐	☐	☐	☐	Appropriate data qualifier flags are applied
	☐	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☐	☐		☐	Samples analyzed within the project or method specific clock
	☐	☐			Retention times have been verified
☑	☐	☐		☐	Appropriate ICAL(s) included
	☐	☐	☐	☐	At least one result per sample is verified against the target quant sheets/raw data

☑	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
	☐	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☑	☐			TICs resemble reference spectra
	☑	☐			TICs between duplicate samples are consistent
NA	☐	☐	☐		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☐		Special units for all samples in the final report are correctly calculated
	☑	☐	☑		Manually entered results checked (i.e. special CCV compounds)
	☑	☐	☐		TPH/NMOC (verify calculations and correct reference compound used)
	☐				Chain of Custody scanned correctly
		☐			Verify sample id's vs. chain of custody
☑	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☑	☑				Final pressure consistent with canister size (6L vs. 1L)
☑	☑				Verify receipt pressures against logbook and Target
☑	☑				Verify canister ID #'s
	☑		☐		Extra printed copies are provided per client profile
	☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	☐	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: All QC met

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
CB 1/9/08	R: NL 1/16/08	1/16/08	
	T:_____		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05

Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable