
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 #: 0712304

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	1/4/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0712304

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:	12/14/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/28/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AMS 5 UW	Modified TO-15	6.5 "Hg	5 psi
02A	XAMSXX DW	Modified TO-15	7.5 "Hg	5 psi
03A	AMS1DW	Modified TO-15	7.5 "Hg	5 psi
04A	TRIP BLANK	Modified TO-15	4.4 psi	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 12/31/07

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

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0712304

One 6 Liter Summa Canister and three 6 Liter Summa Canister (100% Certified) samples were received on December 14, 2007. 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

There were no receiving discrepancies.

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 no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
AMS 5 UW	0712304-01A	12/12/2007	12/14/2007	NA	9	12/21/2007	NA	Good
XAMSXX DW	0712304-02A	12/12/2007	12/14/2007	NA	9	12/21/2007	NA	Good
AMS1DW	0712304-03A	12/12/2007	12/14/2007	NA	9	12/21/2007	NA	Good
TRIP BLANK	0712304-04A	NA	12/14/2007	NA	NA	12/21/2007	NA	Good
Lab Blank	0712304-05A	NA	NA	NA	NA	12/21/2007	NA	Good
CCV	0712304-06A	NA	NA	NA	NA	12/21/2007	NA	Good
LCS	0712304-07A	NA	NA	NA	NA	12/21/2007	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: AMS 5 UW

Lab ID#: 0712304-01A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 5 UW

Lab ID#: 0712304-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122111**	**Date of Collection:**	**12/12/07**
Dil. Factor:	**1.71**	**Date of Analysis:**	**12/21/07 04:09 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: AMS 5 UW

Lab ID#: 0712304-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122111**	**Date of Collection: 12/12/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 12/21/07 04:09 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	96	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	89	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21dec.b/8122111.d
Lab Smp Id: 0712304-01A
Inj Date : 21-DEC-2007 16:09
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #96115
Misc Info : 6.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd8.i/8-21dec.b/t14qn26b.m
Meth Date : 26-Dec-2007 07:30 lover Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04+ENSR.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	166147	25.0000		80.00- 120.00	100.00
7.214	7.214 (1.000)	128	129259			50.53- 110.53	77.80
7.214	7.214 (1.000)	49	342777			173.99- 233.99	206.31
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	615863	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	114567			0.00- 49.60	18.60
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	444247	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	297443			0.00- 30.00	66.95
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	297958	27.4741	27.474	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	133239			28.82- 88.82	44.72
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	542373	24.0259	24.026	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	64557			0.00- 40.83	11.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	358421			45.72- 105.72	66.08
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	218570	22.2926	22.293	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	373444			129.71- 189.71	170.86
16.090	16.090 (1.115)	176	227002			67.06- 127.06	103.86

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122111.d
Lab Smp Id: 0712304-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 6.5"Hg --> 5psi GEI

Calibration Date: 21-DEC-2007
Calibration Time: 09:34
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	215724	129434	302014	166147	-22.98
88 1,4-Difluorobenze	850513	510308	1190718	615863	-27.59
125 Chlorobenzene-d5	596566	357940	835192	444247	-25.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 28-Dec-2007 14:46

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0712304-01A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 6.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.474	109.90	70-130
$ 104 Toluene-d8	25.000	24.026	96.10	70-130
$ 140 Bromofluorobenzene	25.000	22.293	89.17	70-130

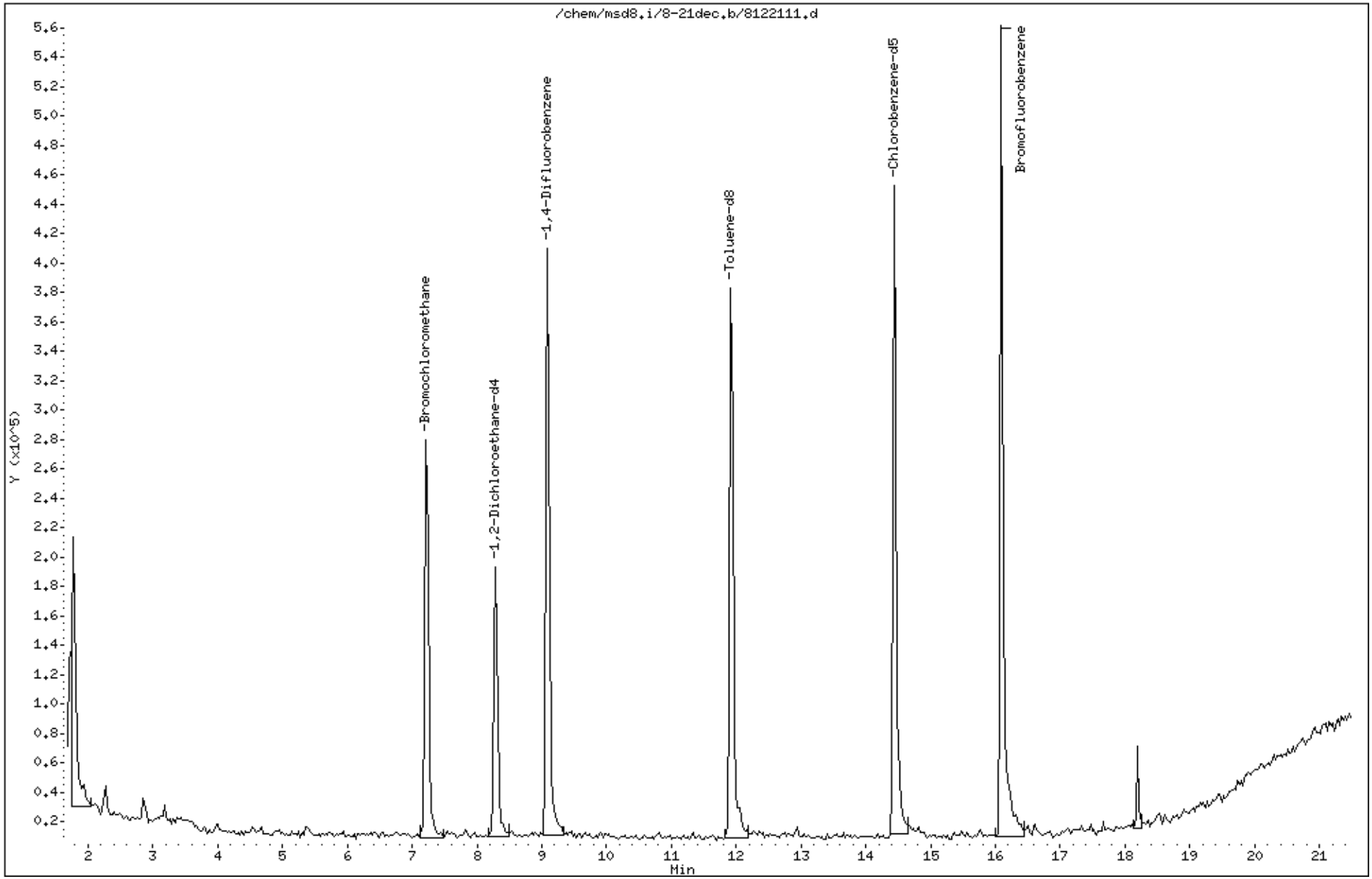
0013

Data File: /chem/msd8.i/8-21dec.b/8122111.d
Date : 21-DEC-2007 16:09
Client ID:
Sample Info: 200mL #96115

Instrument: msd8.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: XAMSXX DW

Lab ID#: 0712304-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	3.6	6.4	6.7	12

0014

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XAMSXX DW

Lab ID#: 0712304-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122112**	**Date of Collection:**	**12/12/07**
Dil. Factor:	**1.79**	**Date of Analysis:**	**12/21/07 04:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.4	Not Detected
Freon 114	0.90	Not Detected	6.2	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.0	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Freon 113	0.90	Not Detected	6.8	Not Detected
Methylene Chloride	0.90	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Carbon Tetrachloride	0.90	Not Detected	5.6	Not Detected
Benzene	0.90	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.1	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
Toluene	0.90	Not Detected	3.4	Not Detected
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Tetrachloroethene	0.90	Not Detected	6.1	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
m,p-Xylene	0.90	Not Detected	3.9	Not Detected
o-Xylene	0.90	Not Detected	3.9	Not Detected
Styrene	0.90	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Hexane	0.90	Not Detected	3.2	Not Detected
Cyclohexane	0.90	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XAMSXX DW

Lab ID#: 0712304-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122112**	**Date of Collection: 12/12/07**	
Dil. Factor:	**1.79**	**Date of Analysis: 12/21/07 04:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.90	Not Detected	3.7	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
Acetone	3.6	Not Detected	8.5	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
2-Propanol	3.6	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Ethanol	3.6	6.4	6.7	12
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Naphthalene	3.6	Not Detected	19	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21dec.b/8122112.d
Lab Smp Id: 0712304-02A
Inj Date : 21-DEC-2007 16:51
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #10985
Misc Info : 7.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd8.i/8-21dec.b/t14qn26b.m
Meth Date : 26-Dec-2007 07:30 lover Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.d
Als bottle: 1
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: AT04+ENSR.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.214 (1.000)	130	169100	25.0000		80.00- 120.00	100.00
7.215	7.214 (1.000)	128	128988			50.53- 110.53	76.28
7.215	7.214 (1.000)	49	343355			173.99- 233.99	203.05
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	602432	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	120066			0.00- 49.60	19.93
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	416586	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	291757			0.00- 30.00	70.04
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	298731	27.0644	27.064	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	145091			28.82- 88.82	48.57
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	525591	23.8016	23.802	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	67265			0.00- 40.83	12.80

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	350759			45.72- 105.72	66.74
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	229034	24.9110	24.911	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	382293			129.71- 189.71	166.92
16.090	16.090 (1.115)	176	215955			67.06- 127.06	94.29
23 Ethanol					CAS #: 64-17-5		
3.454	3.426 (0.479)	45	19061	3.60615	6.455	80.00- 120.00	100.00
3.482	3.426 (0.483)	43	6830			0.00- 30.00	35.83
3.482	3.426 (0.483)	46	7730			0.00- 30.00	40.55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122112.d
Lab Smp Id: 0712304-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 7.5"Hg --> 5psi GEI

Calibration Date: 21-DEC-2007
Calibration Time: 09:34
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	215724	129434	302014	169100	-21.61
88 1,4-Difluorobenze	850513	510308	1190718	602432	-29.17
125 Chlorobenzene-d5	596566	357940	835192	416586	-30.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 8-21dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0712304-02A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 7.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.064	108.26	70-130
$ 104 Toluene-d8	25.000	23.802	95.21	70-130
$ 140 Bromofluorobenzene	25.000	24.911	99.64	70-130

Data File: /chem/msd8.i/8-21dec.b/8122112.d

Date : 21-DEC-2007 16:51

Client ID:

Sample Info: 200mL #10985

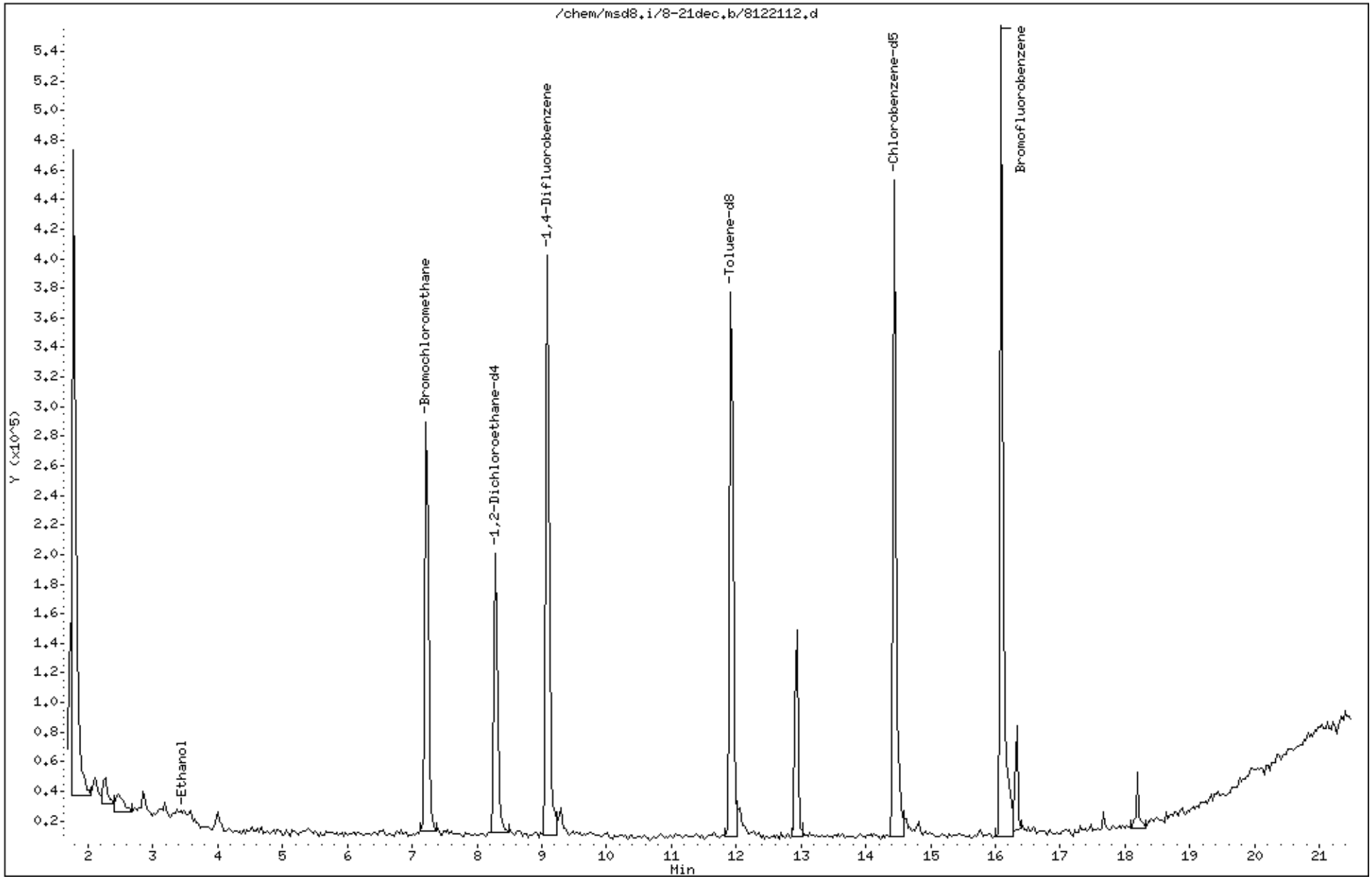
Column phase: RTx-624

Instrument: msd8.i

Operator: cb

Column diameter: 0.53

0021



Data File: /chem/msd8.i/8-21dec.b/8122112.d

Date : 21-DEC-2007 16:51

Client ID:

Instrument: msd8.i

Sample Info: 200mL #10985

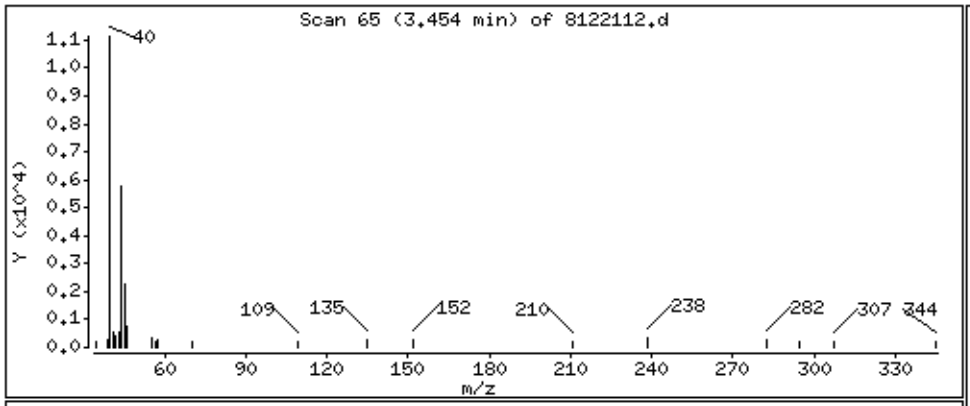
Operator: cb

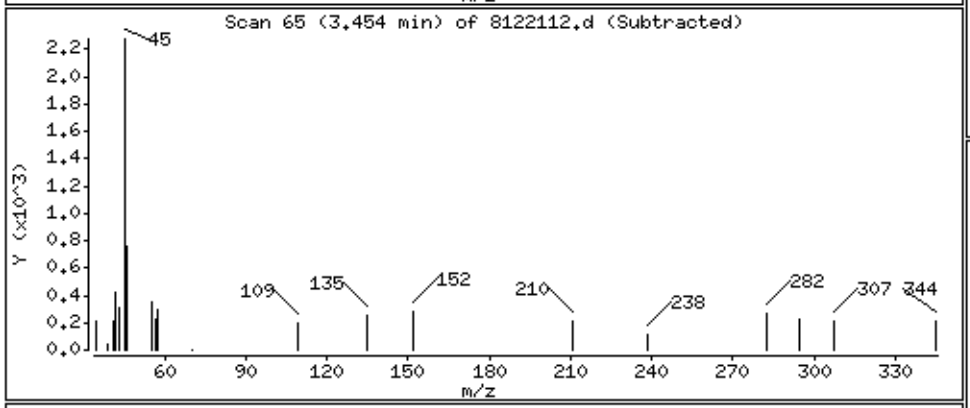
Column phase: RTx-624

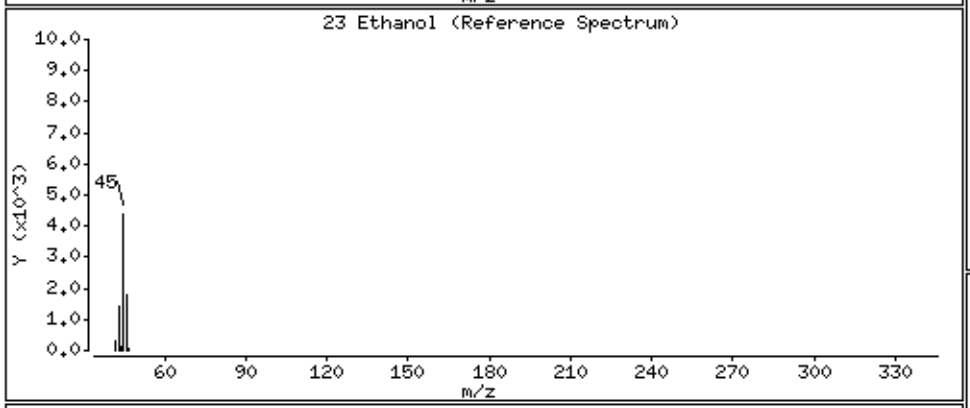
Column diameter: 0.53

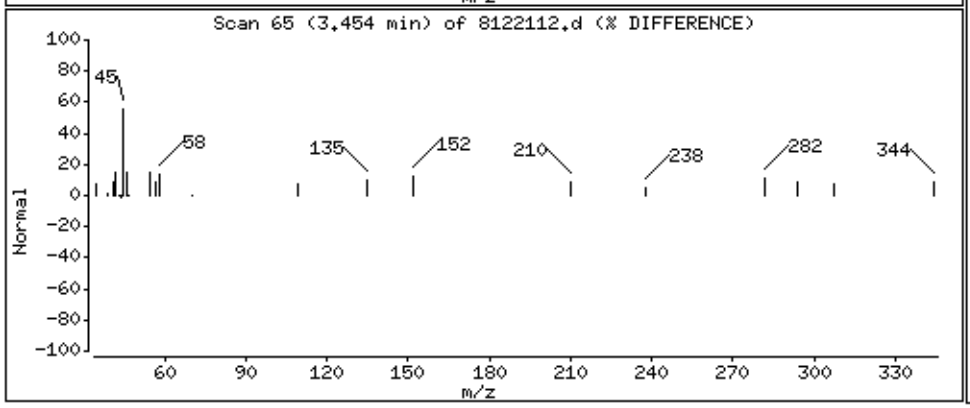
23 Ethanol

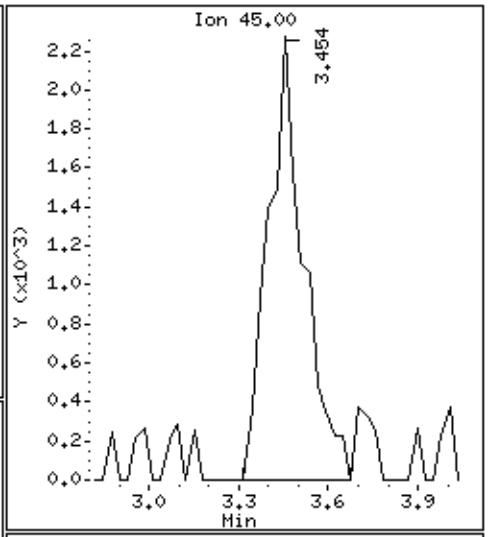
Concentration: 6.455 PPBV

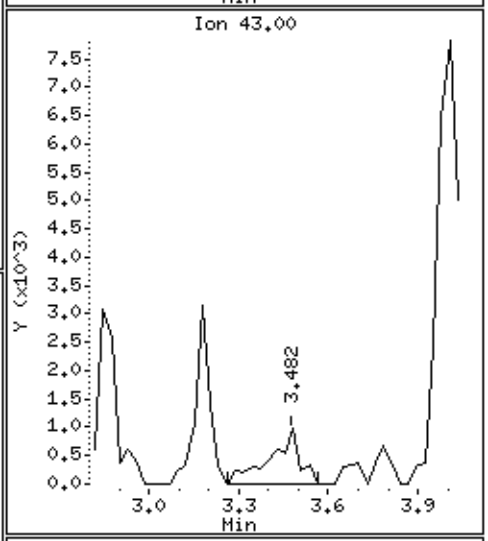


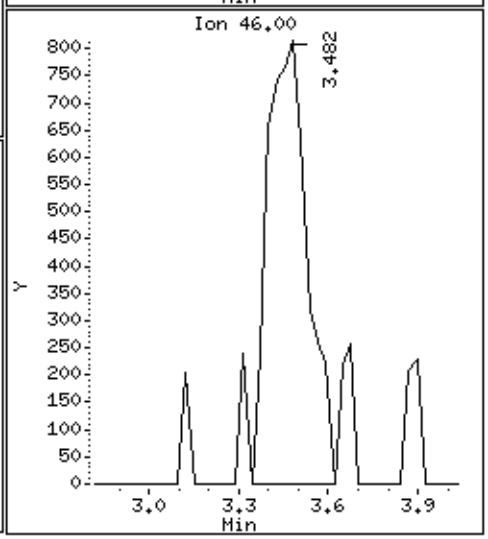












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS1DW

Lab ID#: 0712304-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.90	1.6	3.4	5.9
Carbon Disulfide	0.90	1.6	2.8	5.1
2-Butanone (Methyl Ethyl Ketone)	0.90	1.1	2.6	3.4

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS1DW

Lab ID#: 0712304-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122113**	**Date of Collection:**	**12/12/07**
Dil. Factor:	**1.79**	**Date of Analysis:**	**12/21/07 05:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.4	Not Detected
Freon 114	0.90	Not Detected	6.2	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.0	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Freon 113	0.90	Not Detected	6.8	Not Detected
Methylene Chloride	0.90	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Carbon Tetrachloride	0.90	Not Detected	5.6	Not Detected
Benzene	0.90	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.1	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
Toluene	0.90	1.6	3.4	5.9
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Tetrachloroethene	0.90	Not Detected	6.1	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
m,p-Xylene	0.90	Not Detected	3.9	Not Detected
o-Xylene	0.90	Not Detected	3.9	Not Detected
Styrene	0.90	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Hexane	0.90	Not Detected	3.2	Not Detected
Cyclohexane	0.90	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS1DW

Lab ID#: 0712304-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122113**	**Date of Collection: 12/12/07**	
Dil. Factor:	**1.79**	**Date of Analysis: 12/21/07 05:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.90	Not Detected	3.7	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
Acetone	3.6	Not Detected	8.5	Not Detected
Carbon Disulfide	0.90	1.6	2.8	5.1
2-Propanol	3.6	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.1	2.6	3.4
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Ethanol	3.6	Not Detected	6.7	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Naphthalene	3.6	Not Detected	19	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21dec.b/8122113.d
Lab Smp Id: 0712304-03A
Inj Date : 21-DEC-2007 17:34
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #4084
Misc Info : 7.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd8.i/8-21dec.b/t14qn26b.m
Meth Date : 26-Dec-2007 07:30 lover Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.d
Als bottle: 1
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: AT04+ENSR.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.242	7.214 (1.000)	130	165944	25.0000		80.00- 120.00	100.00
7.215	7.214 (1.000)	128	128509			50.53- 110.53	77.44
7.215	7.214 (1.000)	49	321311			173.99- 233.99	193.63
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	587798	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	109797			0.00- 49.60	18.68
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	400347	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	278293			0.00- 30.00	69.51
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.145)	65	294640	27.2014	27.201	80.00- 120.00	100.00
8.293	8.293 (1.145)	67	136529			28.82- 88.82	46.34
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	487013	22.6036	22.604	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	58174			0.00- 40.83	11.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	325642			45.72- 105.72	66.87
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	208528	23.6006	23.601	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	345546			129.71- 189.71	165.71
16.090	16.090 (1.115)	176	210833			67.06- 127.06	101.11
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.173 (0.572)	76	31378	0.91020	1.629	80.00- 120.00	100.00
65 2-Butanone					CAS #: 78-93-3		
6.883	6.855 (0.950)	72	3327	0.64101	1.147	80.00- 120.00	100.00
6.883	6.855 (0.950)	43	14355			482.44- 542.44	431.47
6.883	6.855 (0.950)	57	1579			0.00- 30.00	47.46
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	23370	0.88099	1.577	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	11984			29.36- 89.36	51.28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122113.d
Lab Smp Id: 0712304-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 7.5"Hg --> 5psi GEI

Calibration Date: 21-DEC-2007
Calibration Time: 09:34
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	215724	129434	302014	165944	-23.08
88 1,4-Difluorobenze	850513	510308	1190718	587798	-30.89
125 Chlorobenzene-d5	596566	357940	835192	400347	-32.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.24	0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 8-21dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0712304-03A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 7.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.201	108.81	70-130
$ 104 Toluene-d8	25.000	22.604	90.41	70-130
$ 140 Bromofluorobenzene	25.000	23.601	94.40	70-130

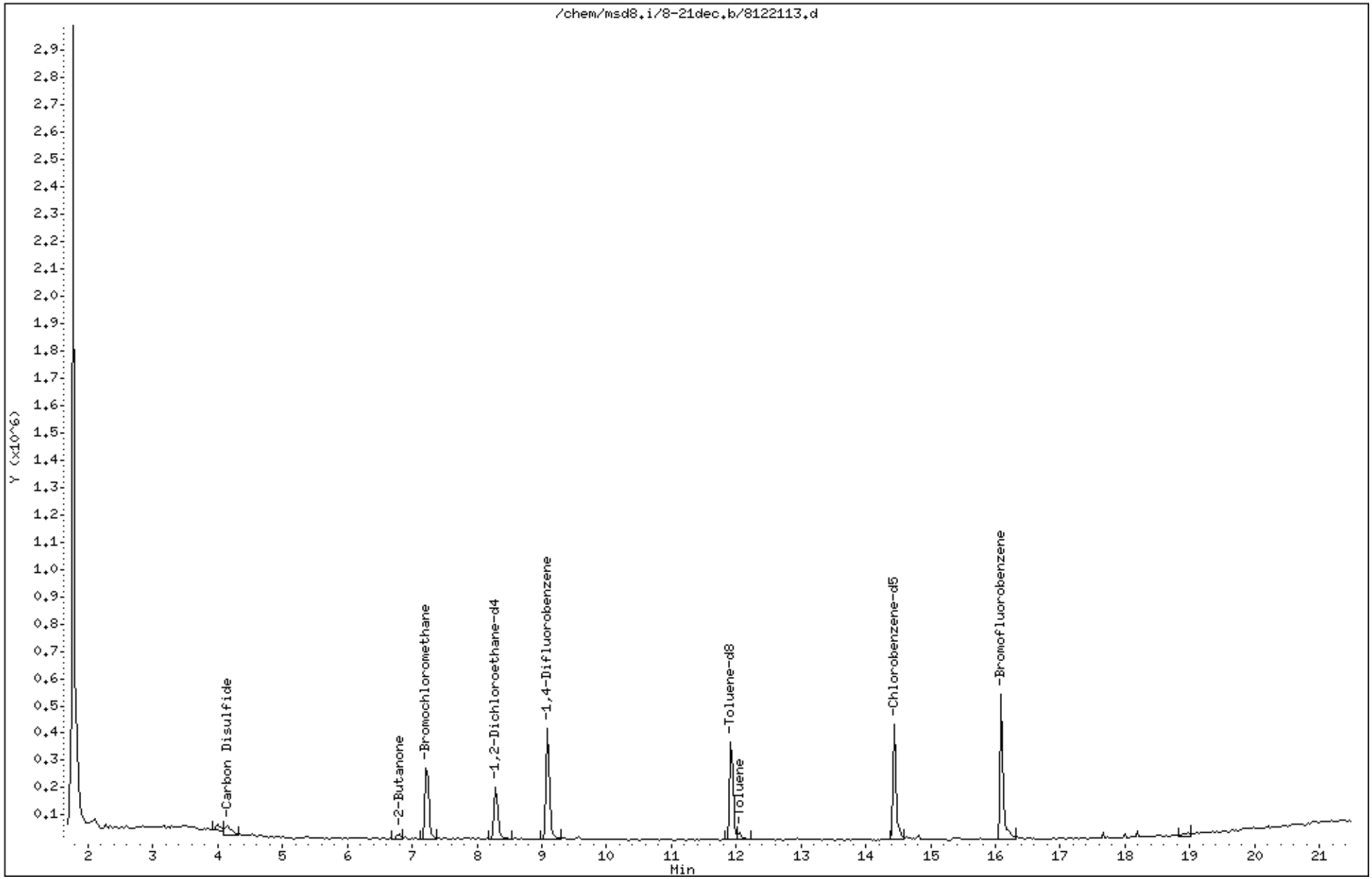
0030

Data File: /chem/msd8.i/8-21dec.b/8122113.d
Date : 21-DEC-2007 17:34
Client ID:
Sample Info: 200mL #4084

Column phase: RTx-624

Instrument: msd8.i

Operator: cb
Column diameter: 0.53



Data File: /chem/msd8.i/8-21dec.b/8122113.d

Date : 21-DEC-2007 17:34

Client ID:

Instrument: msd8.i

Sample Info: 200mL #4084

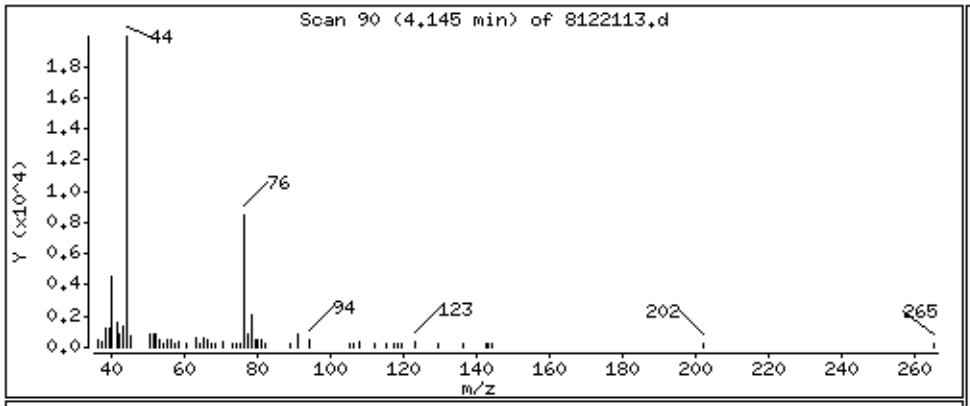
Operator: cb

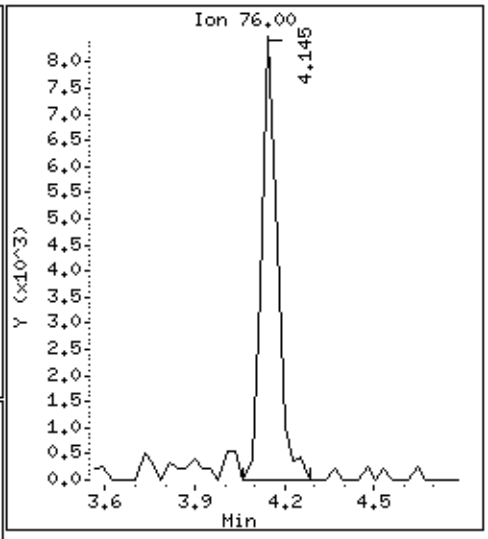
Column phase: RTx-624

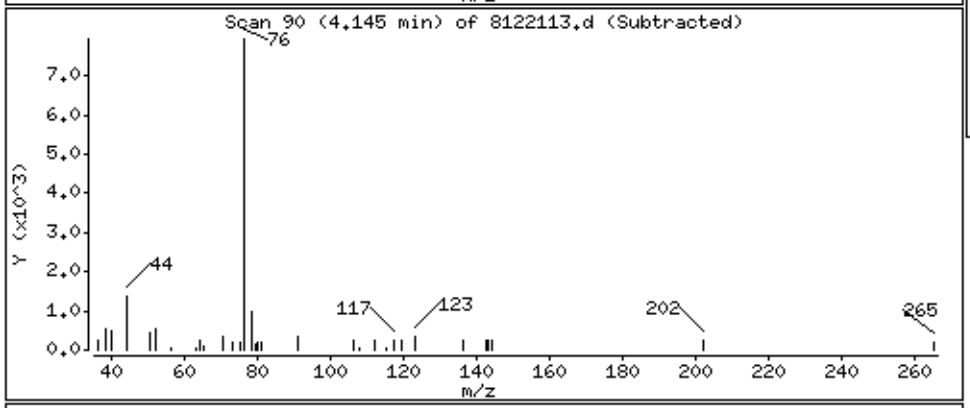
Column diameter: 0.53

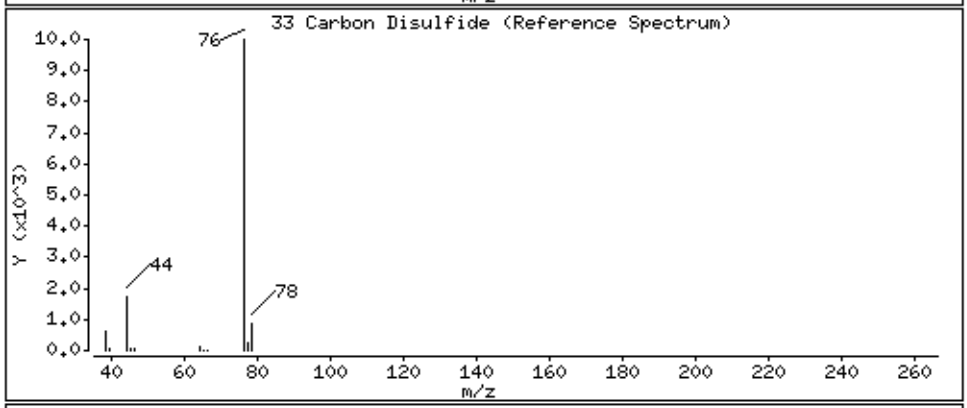
33 Carbon Disulfide

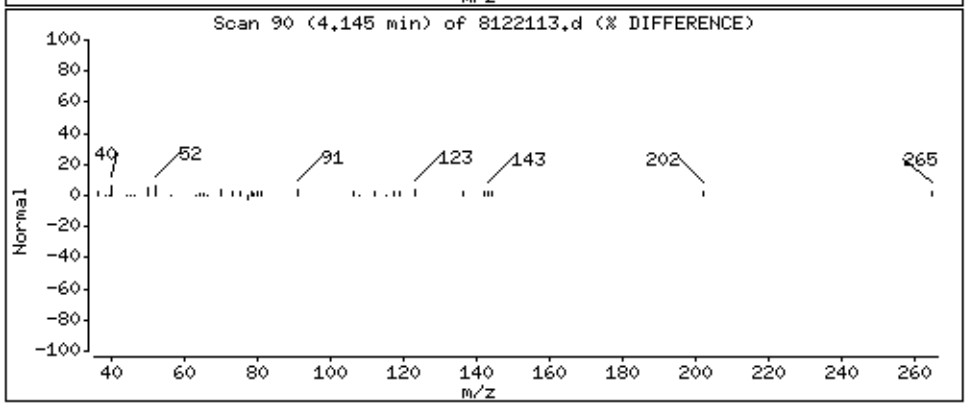
Concentration: 1.629 PPBV











Data File: /chem/msd8.i/8-21dec.b/8122113.d

Date : 21-DEC-2007 17:34

Client ID:

Instrument: msd8.i

Sample Info: 200mL #4084

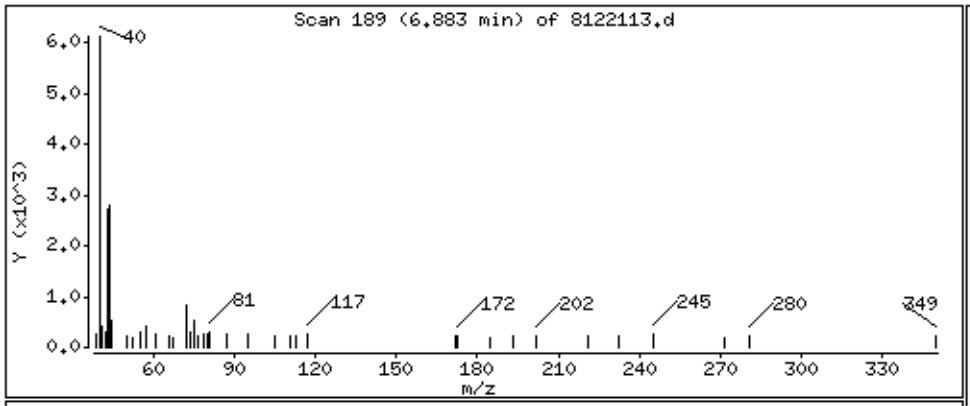
Operator: cb

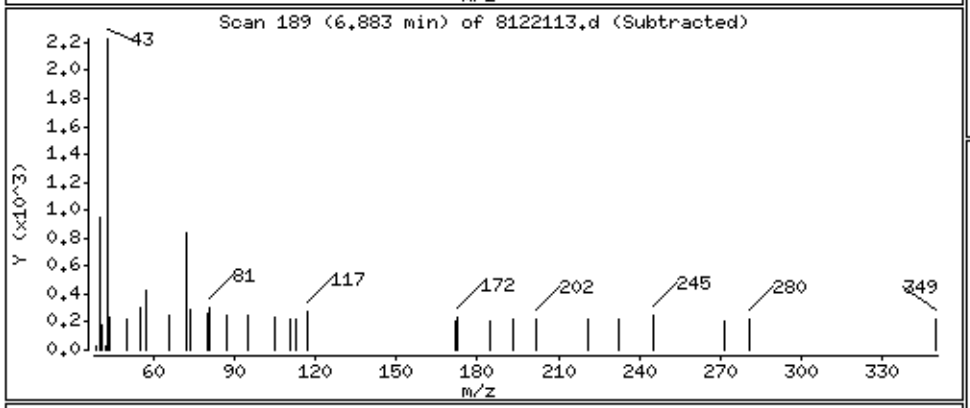
Column phase: RTx-624

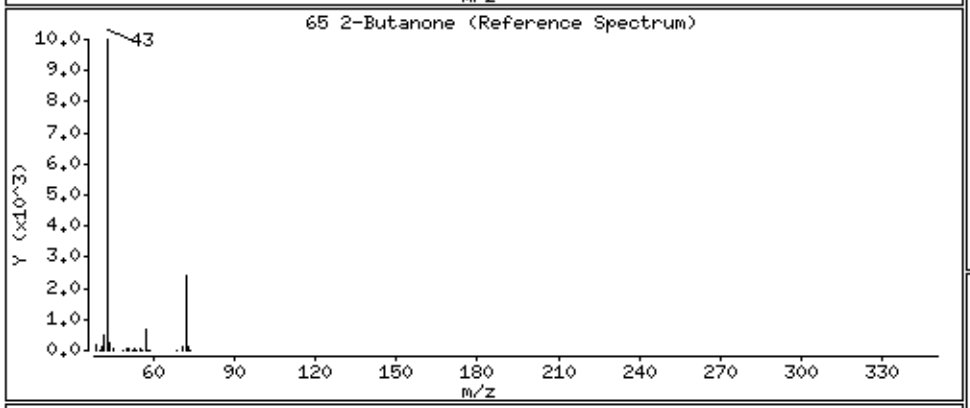
Column diameter: 0.53

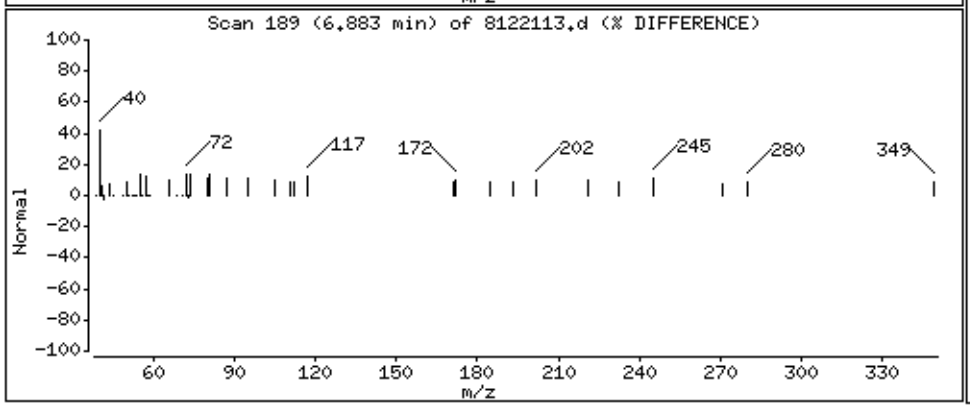
65 2-Butanone

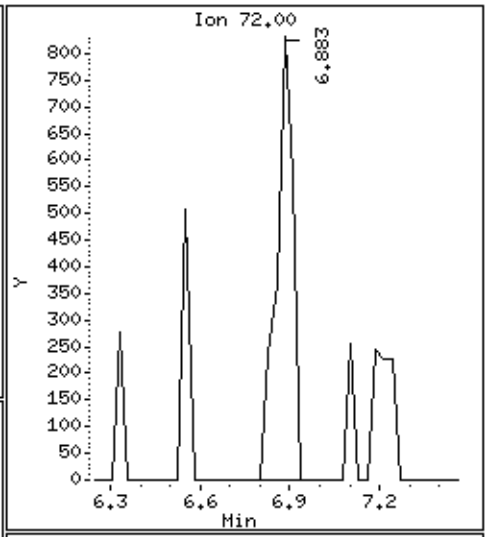
Concentration: 1.147 PPBV

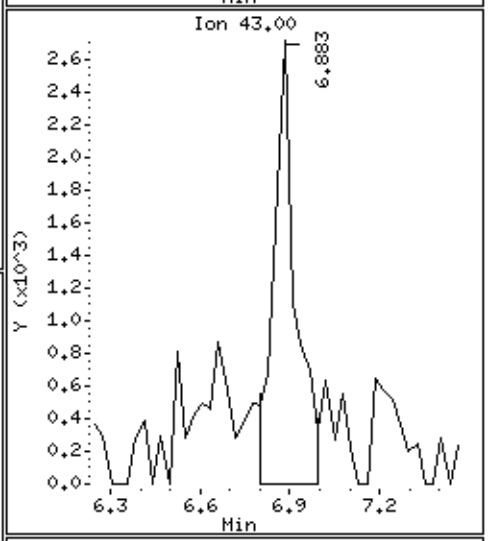


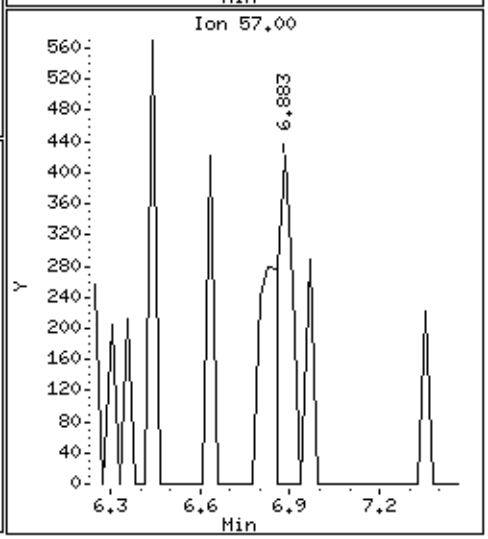












Data File: /chem/msd8.i/8-21dec.b/8122113.d

Date : 21-DEC-2007 17:34

Client ID:

Instrument: msd8.i

Sample Info: 200mL #4084

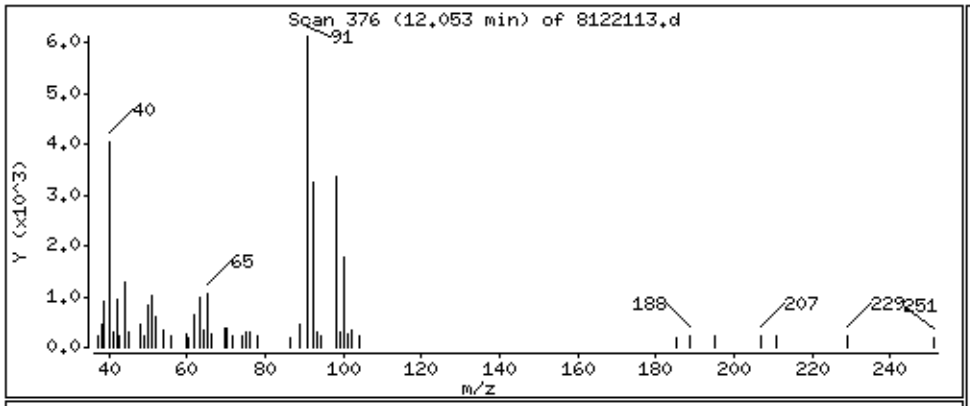
Operator: cb

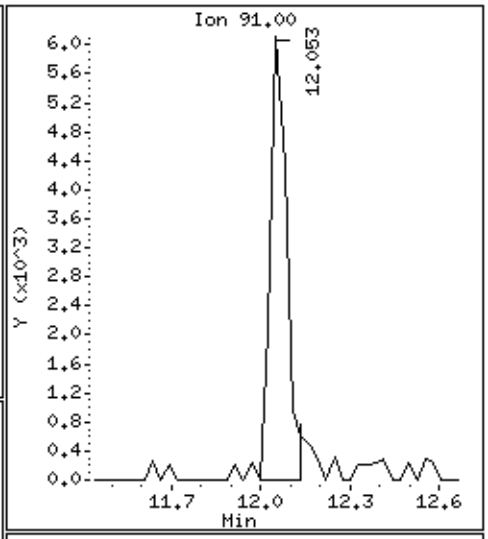
Column phase: RTx-624

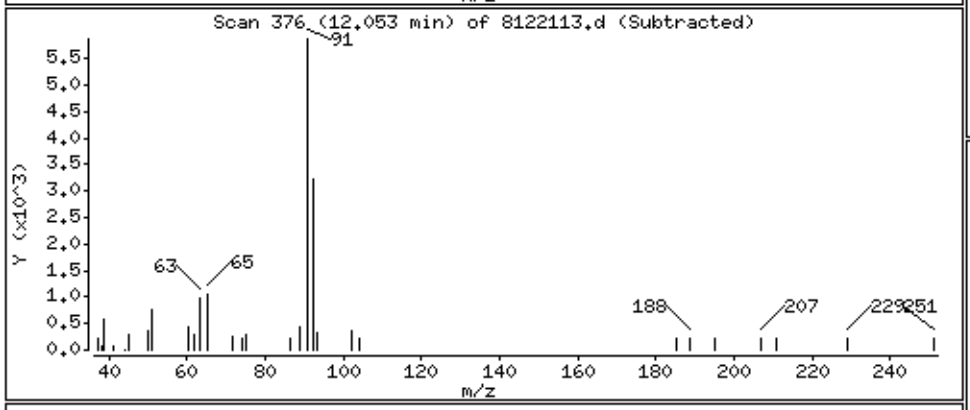
Column diameter: 0.53

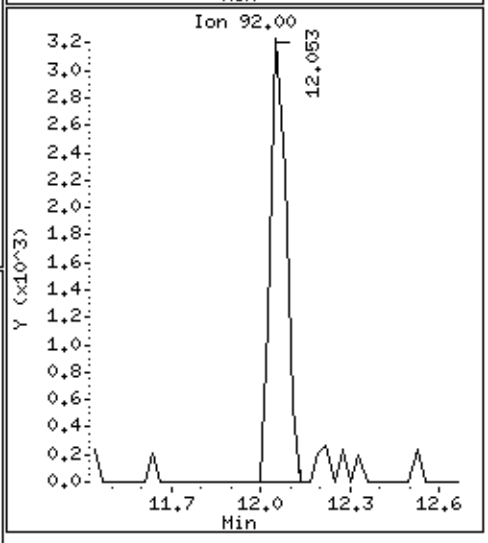
105 Toluene

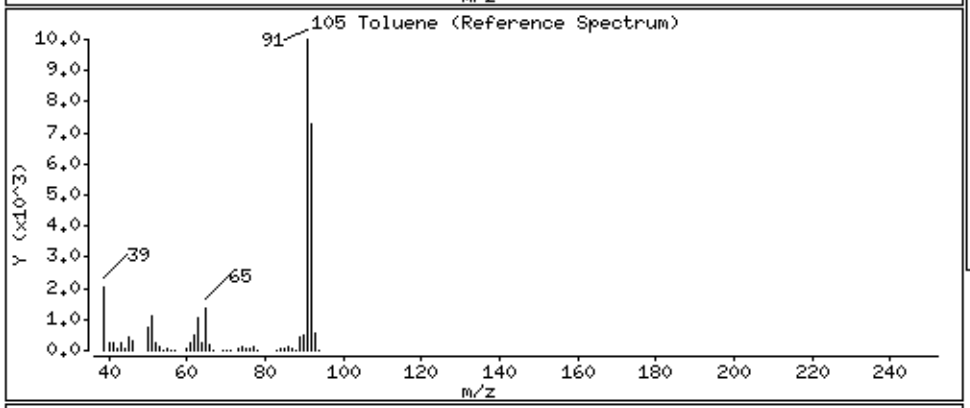
Concentration: 1.577 PPBV

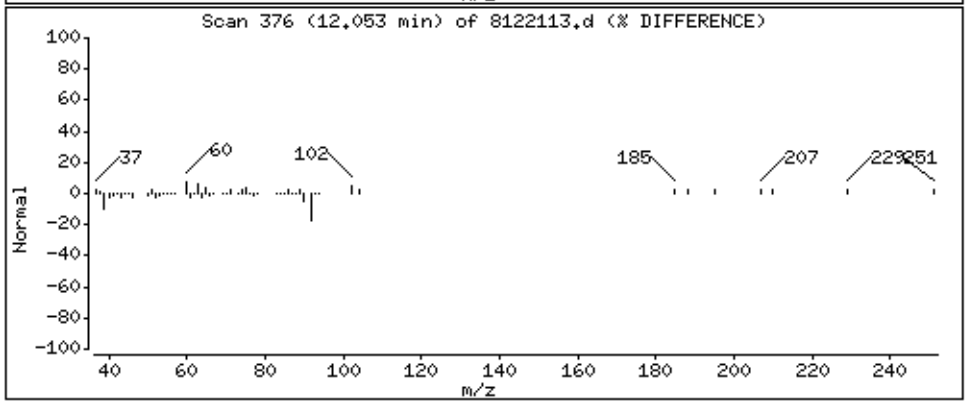












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: TRIP BLANK

Lab ID#: 0712304-04A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TRIP BLANK

Lab ID#: 0712304-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122114**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 06:16 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: TRIP BLANK

Lab ID#: 0712304-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122114**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 06:16 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: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21dec.b/8122114.d
Lab Smp Id: 0712304-04A
Inj Date : 21-DEC-2007 18:16
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #33781
Misc Info : 4.4psi --> 4.4psi GEI
Comment :
Method : /chem/msd8.i/8-21dec.b/t14qn26b.m
Meth Date : 26-Dec-2007 07:30 lover Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	161412	25.0000		80.00- 120.00	100.00
7.214	7.214 (1.000)	128	115715			50.53- 110.53	71.69
7.214	7.214 (1.000)	49	303651			173.99- 233.99	188.12
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.094	9.095 (1.000)	114	577506	25.0000		80.00- 120.00	100.00
9.094	9.095 (1.000)	88	103451			0.00- 49.60	17.91
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	388851	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	272777			0.00- 30.00	70.15
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	283714	26.9281	26.928	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	124590			28.82- 88.82	43.91
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	488786	23.0902	23.090	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	58400			0.00- 40.83	11.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	318187			45.72- 105.72	65.10
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	205656	23.9637	23.964	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	332397			129.71- 189.71	161.63
16.090	16.090 (1.115)	176	201007			67.06- 127.06	97.74

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122114.d
Lab Smp Id: 0712304-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 4.4psi --> 4.4psi GEI

Calibration Date: 21-DEC-2007
Calibration Time: 09:34
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	215724	129434	302014	161412	-25.18
88 1,4-Difluorobenze	850513	510308	1190718	577506	-32.10
125 Chlorobenzene-d5	596566	357940	835192	388851	-34.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 8-21dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0712304-04A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 4.4psi --> 4.4psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	26.928	107.71	70-130
$ 104 Toluene-d8	25.000	23.090	92.36	70-130
$ 140 Bromofluorobenzene	25.000	23.964	95.85	70-130

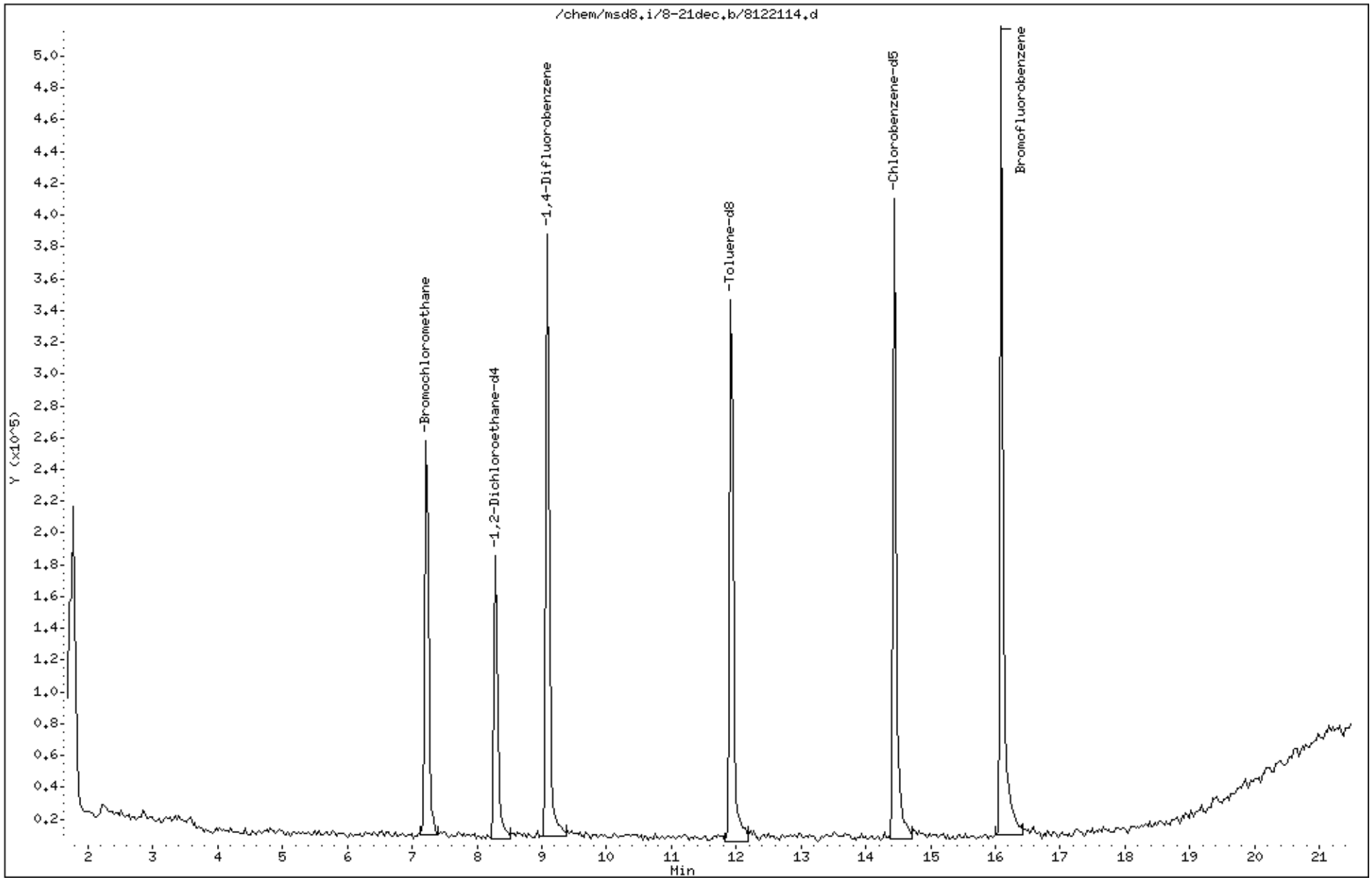
0041

Data File: /chem/msd8.i/8-21dec.b/8122114.d
Date : 21-DEC-2007 18:16
Client ID:
Sample Info: 200mL #33781

Instrument: msd8.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0712304-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 11:11 AM**	

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#: 0712304-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 11:11 AM**	

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	96	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21dec.b/8122105.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 21-DEC-2007 11:11
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #12941
Misc Info : Humid Cert Cart #7 Leg 8
Comment :
Method : /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Meth Date : 21-Dec-2007 09:43 cbond Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	188099	25.0000		80.00- 120.00	100.00
7.214	7.242 (1.000)	128	149288			50.53- 110.53	79.37
7.214	7.214 (1.000)	49	386289			173.99- 233.99	205.37
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	712392	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	130879			0.00- 49.60	18.37
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	484227	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	341092			0.00- 30.00	70.44
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	339376	27.6411	27.641	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	151773			28.82- 88.82	44.72
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	624233	23.9053	23.905	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	75701			0.00- 40.83	12.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	415889			45.72- 105.72	66.62
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	274523	25.6877	25.688	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	428687			129.71- 189.71	156.16
16.090	16.090 (1.115)	176	268037			67.06- 127.06	97.64

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122105.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: Humid Cert Cart #7 Leg 8

Calibration Date: 21-DEC-2007
Calibration Time: 09:34
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	215724	129434	302014	188099	-12.81
88 1,4-Difluorobenze	850513	510308	1190718	712392	-16.24
125 Chlorobenzene-d5	596566	357940	835192	484227	-18.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 21-Dec-2007 11:23

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21dec
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: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: Humid Cert Cart #7 Leg 8

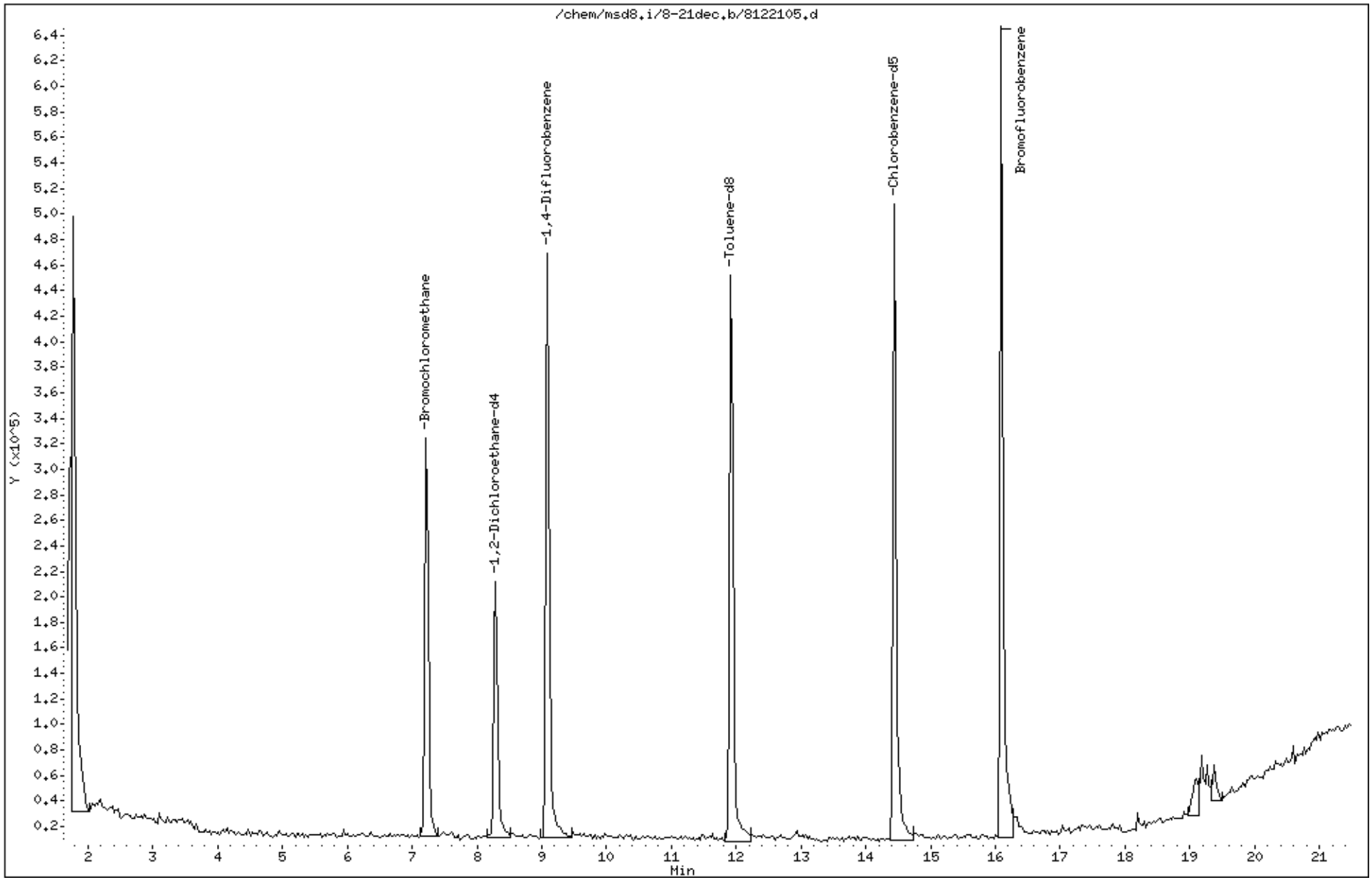
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.641	110.56	70-130
$ 104 Toluene-d8	25.000	23.905	95.62	70-130
$ 140 Bromofluorobenzene	25.000	25.688	102.75	70-130

0049

Data File: /chem/msd8.i/8-21dec.b/8122105.d
Date : 21-DEC-2007 11:11
Client ID: Lab Blank
Sample Info: 200mL #12941

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0712304

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS 5 UW	110		96		89				0
02	XAMSXX DW	108		95		100				0
03	AMS1DW	109		90		94				0
04	TRIP BLANK	108		92		96				0
05	Lab Blank	110		96		103				0
06	CCV	113		99		105				0
07	LCS	112		97		103				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: 0712304
Lab File ID: 8122103.d
Date Analyzed: 12/21/2007
Instrument ID: msd8.i
Time Analyzed: 09:34 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	596566		14.43		850513		9.09		215724		7.21	
	UPPER LIMIT	835192		14.76		1190718		09.42		302014		07.54	
	LOWER LIMIT	357940		14.10		510308		08.76		129434		06.88	
	CLIENT SAMPLE NO												
01	AMS 5 UW	444247		14.43		615863		9.09		166147		7.21	
02	XAMSXX DW	416586		14.43		602432		9.09		169100		7.21	
03	AMS1DW	400347		14.43		587798		9.09		165944		7.24	
04	TRIP BLANK	388851		14.43		577506		9.09		161412		7.21	
05	Lab Blank	484227		14.43		712392		9.09		188099		7.21	
06	CCV	596566		14.43		850513		9.09		215724		7.21	
07	LCS	513765		14.43		728951		9.09		179005		7.21	
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 : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 cbond
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd8.i/8-26nov.b/8112610.d
Level 2: /chem/msd8.i/8-26nov.b/8112603.d
Level 3: /chem/msd8.i/8-30nov.b/8113004.d
Level 4: /chem/msd8.i/8-26nov.b/8112605.d
Level 5: /chem/msd8.i/8-30nov.b/8113005.d
Level 6: /chem/msd8.i/8-26nov.b/8112607.d
Level 7: /chem/msd8.i/8-30nov.b/8113006.d

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	___ RRF	% RSD
1 Freon 152a	+++++	+++++	1.48575	+++++	0.91756	+++++	0.94692	1.11675	28.646
2 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Propylene	+++++	+++++	2.01692	1.49491	1.46663	1.39979	1.41533	1.55871	16.616
4 Dichlorodifluoromethane/Fr12	+++++	4.55001	4.99228	3.64154	3.45641	3.16331	3.19657	3.83335	19.833
5 Freon134a	+++++	+++++	1.96901	+++++	1.17486	+++++	1.07612	1.40666	34.799
6 Freon 114	+++++	4.38923	3.46853	2.70122	2.54156	2.41840	2.35667	2.97927	26.846
7 Isobutane	+++++	+++++	5.80917	+++++	3.92712	+++++	3.50364	4.41331	27.808

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
8 Chloromethane	+++++	+++++	2.43715	1.85457	1.80794	1.66980	1.59401	1.87270	17.750
9 Butane	+++++	+++++	0.62163	0.40541	0.39390	0.38634	0.37394	0.43624	23.901
10 1,3-Butadiene	+++++	2.43721	2.26667	1.64106	1.69815	1.56702	1.53028	1.85673	21.097
11 Vinyl Chloride	+++++	2.74268	2.50450	1.95607	1.91516	1.78672	1.75872	2.11064	19.483
12 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Bromomethane	+++++	1.50471	1.50305	1.37043	1.32912	1.25435	1.23388	1.36592	8.621
14 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Isopentane	+++++	+++++	3.72788	2.67784	2.64068	2.50714	2.50048	2.81081	18.453
16 Chloroethane	+++++	1.10988	0.87100	0.99874	0.95271	0.90670	0.88276	0.95363	9.438
17 Dichlorofluoromethane/Fr21	+++++	+++++	3.76776	+++++	2.24836	+++++	2.07649	2.69754	34.506

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
18 Trichlorofluoromethane/Fr11	+++++	5.80022	4.68132	3.62684	3.50297	3.42650	3.41873	4.07609	23.845
19 Pentane	+++++	+++++	5.75773	+++++	3.95448	+++++	4.00575	4.57266	22.451
20 Freon123a	+++++	+++++	3.10387	+++++	1.88374	+++++	1.76327	2.25029	32.959
21 Freon123	+++++	+++++	3.94620	+++++	2.39569	+++++	2.33012	2.89067	31.643
22 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Ethanol	+++++	+++++	1.05872	0.75201	0.74670	0.71453	0.63527	0.78144	20.714
24 Freon 13	+++++	+++++	0.51718	+++++	0.68441	+++++	0.57164	0.59107	14.430
25 Acrolein	+++++	+++++	0.99385	+++++	0.64666	+++++	0.61294	0.75115	28.072
26 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Freon142b	+++++	+++++	3.49510	+++++	2.49456	+++++	2.33656	2.77541	22.637

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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								
28 Freon 113	+++++	3.17071	2.68438	2.08045	2.00733	1.91261			
	1.87410						2.28826	22.878	
29 1,1-Dichloroethene	+++++	3.42974	3.48319	2.48311	2.46358	2.43813			
	2.44556						2.79055	18.503	
30 Acetone	+++++	+++++	1.24400	0.94334	0.91309	0.90570			
	0.90074						0.98137	15.054	
31 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
32 Freon143a	+++++	+++++	0.96922	+++++	0.62776	+++++			
	0.50557						0.70085	34.289	
33 Carbon Disulfide	+++++	6.33437	6.04187	4.78772	4.73124	4.65383			
	4.61235						5.19356	14.986	
34 2-Propanol	+++++	+++++	3.66812	3.32322	3.35624	3.36836			
	3.39074						3.42134	4.095	
35 Acetonitrile	+++++	+++++	1.55090	+++++	0.95597	+++++			
	0.42019						0.97569	57.971	<-
36 Cyclopentene	+++++	+++++	5.72509	+++++	3.53749	+++++			
	3.44790						4.23683	30.439	
37 3-Chloropropene	+++++	+++++	0.72220	0.80183	0.73601	0.74534			
	0.73816						0.74871	4.121	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
38 tert-Butyl-Alcohol	+++++	+++++	3.60053	+++++	2.47779	+++++	1.63429	2.57087	38.369
39 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Methylene Chloride	+++++	3.28840	2.85015	2.16375	2.09322	2.04593	2.06050	2.41699	21.742
41 Acrylonitrile	+++++	+++++	2.03285	+++++	1.51295	+++++	1.46630	1.67070	18.824
42 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 MTBE	+++++	2.38809	2.02926	3.23401	3.20198	2.90887	2.29132	2.67559	18.994
44 1-Pentene	+++++	+++++	3.21459	+++++	2.31058	+++++	2.14062	2.55527	22.592
45 trans-1,2-Dichloroethene	+++++	2.31969	2.17437	1.63627	1.59749	1.55292	1.54767	1.80473	19.237
46 Hexane	+++++	3.96942	3.94162	3.09502	3.08128	3.10399	3.10742	3.38312	13.111
47 Ethyl Ether	+++++	+++++	1.40503	+++++	0.93887	+++++	0.87866	1.07419	26.820

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD	
48 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Isopropyl ether	+++++	+++++	9.21015	+++++	6.21623	+++++	5.98396	7.13678	25.212	
50 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
51 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 1-Propanol	+++++	+++++	0.63773	+++++	0.30538	+++++	0.31355	0.41888	45.256	<-
53 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 1,1-Dichloroethane	+++++	3.74375	3.62881	3.07999	2.99171	2.97434	2.96997	3.23143	11.030	
55 Vinyl Acetate	+++++	+++++	0.31431	0.35623	0.36993	0.37159	0.39136	0.36069	7.982	
56 Iodomethane	+++++	+++++	3.94735	+++++	3.49517	+++++	3.12117	3.52123	11.749	
57 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
58 Ethyl-tert-butyl Ether	+++++	+++++	3.35399	+++++	4.22124	+++++	4.20454	3.92659	12.631
59 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	0.95605	+++++	1.84078	+++++	1.73372	1.51018	31.974
61 Ethyl Acetate	+++++	+++++	0.49929	+++++	0.34284	+++++	0.33717	0.39310	23.405
62 1-Hexene	+++++	+++++	1.95496	+++++	1.41068	+++++	1.36790	1.57785	20.743
63 Methyl Acrylate	+++++	+++++	3.74335	+++++	3.16668	+++++	3.13082	3.34695	10.271
64 cis-1,2-Dichloroethene	+++++	3.37541	2.97395	2.08268	2.09128	2.04104	2.08358	2.44132	23.853
65 2-Butanone	+++++	0.90417	0.94409	0.68262	0.70633	0.71933	0.73500	0.78192	14.349
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Tetrahydrofuran	+++++	3.90739	2.68296	2.11130	2.09087	2.09566	2.14820	2.50606	28.884

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
69 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Chloroform	2.95724	3.88241	3.54067	2.69689	2.68298	2.64681	2.67647	3.01193	16.565
71 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 1,1-Dichloropropene	+++++	+++++	1.23067	+++++	0.69453	+++++	0.68013	0.86844	36.131
73 Cyclohexane	+++++	3.01630	2.87133	2.14156	2.13056	2.06988	2.05962	2.38154	18.439
74 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1,1,1-Trichloroethane	+++++	3.35630	2.96234	2.62297	2.58441	2.59588	2.58647	2.78473	11.350
76 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	2.40553	2.54210	2.09535	2.08252	2.03876	2.08432	2.20809	9.564
78 Isobutanol	+++++	+++++	0.43793	+++++	0.37294	+++++	0.37882	0.39657	9.064

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
79 tert-amyl-Methyl Ether	+++++	+++++	2.74337	+++++	3.12855	+++++	3.15231	3.00808	7.631
80 2,2,4-Trimethylpentane	+++++	11.60598	11.02400	8.56681	8.57157	8.64637	8.93036	9.55752	14.440
81 Benzene	1.42843	1.57725	1.46574	1.14878	1.11025	1.06739	1.09486	1.27039	16.691
83 1,2-Dichloroethane	+++++	0.84352	0.68886	0.50528	0.49778	0.49024	0.49997	0.58761	24.982
84 Thiopene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Heptane	+++++	0.16311	0.16283	0.12651	0.11664	0.11574	0.11696	0.13363	17.256
86 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 1-Butanol	+++++	+++++	0.26307	+++++	0.26984	+++++	0.29684	0.27658	6.459
90 Methyl Methacrylate	+++++	+++++	0.69496	+++++	0.57642	+++++	0.59362	0.62166	10.304

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
91 2-Pentanone	+++++	+++++	1.25897	+++++	1.07670	+++++	1.13604	1.15724	8.033
92 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Ethyl Acrylate	+++++	+++++	0.99102	+++++	0.90817	+++++	0.96587	0.95502	4.448
94 Trichloroethene	+++++	0.60903	0.57881	0.41954	0.41564	0.39689	0.40068	0.47010	20.585
95 Methyl Cyclohexane	+++++	3.42186	3.09750	2.54458	2.47869	2.51354	2.53284	2.76484	14.374
96 Dibromomethane	+++++	+++++	0.40795	+++++	0.27527	+++++	0.26625	0.31649	25.068
97 1,2-Dichloropropane	+++++	0.64392	0.51194	0.40130	0.39551	0.38233	0.39544	0.45507	22.875
98 1,4-Dioxane	+++++	+++++	0.26512	0.23189	0.23803	0.22853	0.24018	0.24075	5.982
99 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 Bromodichloromethane	+++++	0.91755	0.79900	0.66530	0.65551	0.63778	0.65631	0.72191	15.575

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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							
101 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 cis-1,3-Dichloropropene	+++++	0.61551	0.64424	0.50105	0.48644	0.47871		
	0.50749						0.53891	13.319
103 4-Methyl-2-pentanone	+++++	0.35971	0.33542	0.31273	0.31106	0.30639		
	0.32451						0.32497	6.162
105 Toluene	+++++	1.40745	1.32947	1.03792	1.00847	0.97449		
	1.01164						1.12824	16.732
106 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
107 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
108 trans-1,3-Dichloropropene	+++++	0.89890	0.77787	0.70690	0.68524	0.69702		
	0.68898						0.74248	11.299
109 1,3-Dichloropropane	+++++	+++++	0.79326	+++++	0.50898	+++++		
	0.49077						0.59767	28.382
110 1,1,2-Trichloroethane	+++++	0.57122	0.59293	0.48966	0.46175	0.44347		
	0.43070						0.49829	13.687
111 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
112 Tetrachloroethene	+++++	0.75561	0.73472	0.56263	0.53109	0.51205	0.49077	0.59781	19.529
113 Butyl Acetate	+++++	+++++	0.42383	+++++	0.38823	+++++	0.38777	0.39994	5.173
114 2-Hexanone	+++++	+++++	0.52463	0.55001	0.57066	0.57588	0.59437	0.56311	4.740
115 trans-1,4-dichloro-2-butene	+++++	+++++	0.17716	+++++	0.20065	+++++	0.23097	0.20292	13.295
116 Dibromochloromethane	+++++	0.93821	0.77913	0.71937	0.69059	0.69169	0.66811	0.74785	13.481
117 1,2-Dibromoethane	+++++	1.06375	0.89350	0.80390	0.76524	0.75974	0.74836	0.83908	14.562
118 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 Diisobutyl Ketone	+++++	+++++	1.91585	+++++	1.74794	+++++	1.89840	1.85406	4.979
121 Alphamethylstyrene	+++++	+++++	0.74014	+++++	0.71253	+++++	0.82745	0.76004	7.893

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
122 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.71970	+++++	0.49087	+++++	0.47814	0.56290	24.149
124 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	1.57741	1.40729	1.14910	1.08140	1.05309	1.02052	1.21480	18.573
127 Bis(2-chloroethyl) ether	+++++	+++++	1.06026	+++++	0.98836	+++++	1.12727	1.05863	6.562
128 Nonane	+++++	+++++	1.58761	+++++	1.24199	+++++	1.26913	1.36624	14.067
129 Ethyl Benzene	+++++	0.84250	0.77573	0.64894	0.63496	0.63042	0.60310	0.68928	13.979
130 m,p-Xylene	+++++	1.07637	0.93551	0.81906	0.79296	0.77067	0.74859	0.85719	14.667
131 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.94317	0.86149	0.73551	0.72633	0.72040	0.68938	0.77938	12.816

Air Toxics Ltd.

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
133 2-Heptanone	+++++	+++++	0.75661	+++++	0.83347	+++++	0.85133	0.81380	6.184
134 Styrene	0.97719	1.44207	1.18321	1.25895	1.28278	1.31105	1.28375	1.24843	11.412
135 Bromoform	+++++	0.69712	0.65556	0.64991	0.64134	0.64407	0.61403	0.65034	4.157
136 Cyclohexanone	+++++	+++++	0.90576	+++++	0.74036	+++++	0.76894	0.80502	10.981
137 Cumene	2.13155	2.82922	2.64671	2.38494	2.29289	2.30897	2.28164	2.41085	10.023
138 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Bromobenzene	+++++	+++++	0.90916	+++++	0.52251	+++++	0.51873	0.65014	34.506
141 1,2,3-Trichloropropane	+++++	+++++	0.45345	+++++	0.31379	+++++	0.30688	0.35804	23.097
142 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chlorotoluene	+++++	+++++	0.74076	+++++	0.46439	+++++	0.44939	0.55151	29.748

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
144 1,1,2,2-Tetrachloroethane	+++++	1.42499	1.42265	1.18681	1.15384	1.14102	1.10712	1.23940	11.708
145 Propylbenzene	+++++	3.02328	3.19109	2.82501	2.80606	2.84672	2.36984	2.84367	9.685
146 4-Chlorotoluene	+++++	+++++	0.86729	+++++	0.47388	+++++	0.49417	0.61178	36.207
147 4-Ethyltoluene	+++++	2.53926	2.39632	2.26791	2.24731	2.31475	2.31822	2.34730	4.567
148 1,3,5-Trimethylbenzene	+++++	2.77857	2.78738	2.23774	2.18290	2.19487	2.14656	2.38800	12.870
149 2,6-Dimethyl-1-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 tert-Butylbenzene	+++++	+++++	3.27618	+++++	1.89123	+++++	1.91996	2.36246	33.501
151 Pentachloroethane	+++++	+++++	0.59165	+++++	0.40284	+++++	0.41696	0.47048	22.353
152 sec-Butylbenzene	+++++	+++++	4.10934	+++++	2.57728	+++++	2.75767	3.14809	26.598
153 1,2,4-Trimethylbenzene	+++++	2.33460	2.00211	1.89137	1.85565	1.84303	1.80229	1.95484	10.131

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
154 p-Cymene	+++++	+++++	0.76627	+++++	0.49954	+++++	0.49624	0.58735	26.383
155 1,2,3-Trimethylbenzene	+++++	+++++	0.99200	+++++	0.66526	+++++	0.65190	0.76972	25.024
156 1,3-Dichlorobenzene	+++++	1.42125	1.36271	1.06232	1.04780	1.01798	0.96107	1.14552	17.015
157 1,4-Dichlorobenzene	+++++	2.05010	1.79203	1.38250	1.30013	1.27531	1.21042	1.50175	22.600
158 alpha-Chlorotoluene	+++++	1.97012	1.71432	1.65585	1.66037	1.66581	1.73255	1.73317	6.939
159 Butylbenzene	+++++	+++++	0.85751	+++++	0.61818	+++++	0.64294	0.70621	18.637
160 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dichlorobenzene	+++++	1.58763	1.45042	1.16386	1.10537	1.03922	1.00747	1.22566	19.383
162 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
164 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
165 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.80412	+++++	0.58394	+++++	0.59027	0.65944	19.007
166 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
167 1,2,4-Trichlorobenzene	+++++	+++++	1.93037	1.15146	1.12700	1.11768	1.04134	1.27357	29.010
168 Hexachlorobutadiene	+++++	+++++	1.24280	0.82607	0.77681	0.74162	0.69338	0.85614	25.876
169 Naphthalene	+++++	+++++	4.24977	2.48176	2.48263	2.58226	2.46722	2.85273	27.424
170 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
171 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
172 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 82 1,2-Dichloroethane-d4	1.61564	1.55372	1.57412	1.52680	1.58434	1.72187	1.84643	1.63184	6.948

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-30nov.b/t14qn26b.m
Cal Date : 30-Nov-2007 16:04 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	___ RRF	% RSD
$ 104 Toluene-d8	0.90837	0.87449	0.90908	0.91599	0.93128	0.92323	0.95222	0.91638	2.608
$ 140 Bromofluorobenzene	0.51892	0.52980	0.53542	0.56851	0.55402	0.57368	0.58192	0.55175	4.380

Calibration History

Method : /chem/msd8.i/8-30nov.b/t14qn26b.m
Start Cal Date: 26-NOV-2007 13:28
End Cal Date : 30-NOV-2007 12:36

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
26-NOV-2007 21:01	AFCEElow	/chem/msd8.i/8-26nov.b/8112610.d
Cal Level: 2 , Cal Amount: 0.50000		
26-NOV-2007 13:28	AT04Low+ENSR	/chem/msd8.i/8-26nov.b/8112603.d
Cal Level: 3 , Cal Amount: 2.00000		
30-NOV-2007 11:38	sp19b	/chem/msd8.i/8-30nov.b/8113004.d
27-NOV-2007 15:03	sp21a	/chem/msd8.i/8-27nov.b/8112709.d
27-NOV-2007 11:33	sp16a	/chem/msd8.i/8-27nov.b/8112705.d
26-NOV-2007 13:56	AT04mdl+ENSR	/chem/msd8.i/8-26nov.b/8112604.d
Cal Level: 4 , Cal Amount: 25.00000		
26-NOV-2007 14:23	AT04mdl+ENSR	/chem/msd8.i/8-26nov.b/8112605.d
Cal Level: 5 , Cal Amount: 50.00000		
30-NOV-2007 12:06	sp19b	/chem/msd8.i/8-30nov.b/8113005.d
27-NOV-2007 12:01	sp16a	/chem/msd8.i/8-27nov.b/8112706.d
27-NOV-2007 10:24	sp21a	/chem/msd8.i/8-27nov.b/8112703.d
26-NOV-2007 14:51	AT04mdl+ENSR	/chem/msd8.i/8-26nov.b/8112606.d
Cal Level: 6 , Cal Amount: 100.00000		
26-NOV-2007 15:19	AT04mdl+ENSR	/chem/msd8.i/8-26nov.b/8112607.d
Cal Level: 7 , Cal Amount: 200.00000		
30-NOV-2007 12:36	sp19b	/chem/msd8.i/8-30nov.b/8113006.d

27-NOV-2007 12:31	sp16a	/chem/msd8.i/8-27nov.b/8112707.d
27-NOV-2007 10:54	sp21a	/chem/msd8.i/8-27nov.b/8112704.d
26-NOV-2007 15:49	AT04mdl+ENSR	/chem/msd8.i/8-26nov.b/8112608.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
30-NOV-2007 12:06	sp19bCCV	/chem/msd8.i/8-30nov.b/8113005a.d
Ccal Level: 5 , Ccal Amount: 50.000		
30-NOV-2007 12:06	sp19b	/chem/msd8.i/8-30nov.b/8113005.d
Ccal Level: 5 , Ccal Amount: 50.000		
30-NOV-2007 14:03	sp16aCCV	/chem/msd8.i/8-30nov.b/8113008.d
Ccal Level: 5 , Ccal Amount: 50.000		
29-NOV-2007 11:00	sp16aCCV	/chem/msd8.i/8-30nov.b/8112904.d
Ccal Level: 5 , Ccal Amount: 50.000		
30-NOV-2007 12:06	sp19bCCV	/chem/msd8.i/8-30nov.b/8113005a.d

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-8 on 11-26-2007. As noted on the accompanying analytical run logs, the following point calibration level 1 was re-analyzed due to:

a. anomalous unacceptable linearity for Benzene

A three point initial calibration was analyzed on MSD-8 on 11-27-2007. As noted on the accompanying analytical run logs, the following point calibration level 3 was re-analyzed due to:

b. unacceptable peak resolution and/or integration of Freon 152a

The following compounds used either 0.2 or 0.25 ppbv as the lowest calibration concentration:
Chloroform, Benzene, Cumene, and Styrene.

@ Air Toxics Ltd.

MSD-8

Logbook #: 1587

0073

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	23.30
75	30.0 – 60.0% of mass 95	50.46
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.48
173	Less than 2.0% of mass 174	(0.73)[1]
174	Greater than 50.0% of mass 95	51.10
175	5.0 – 9.0% of mass 174	(7.18)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.19)[1]
177	5.0 – 9.0% of mass 176	(6.47)[2]

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

BFB Injection Date: 11/26/07
BFB Injection Time: 1232
BFB File ID: 8112601
Tekmar Purge Flow: ——— CB 11/26/07
Vacuum: 9.6×10^{-6} torr

IS/S Std.#:	1443-373	Exp. Date: 2/26/08
BCM	298719	
1,4-DFB	1167702	
CB-d5	849922	

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

Verify 176/174 m/z Ratio: 898304/943680 X100 = 95.19

NOAH Cart #: N/A **File #:** N/A

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 473272\ )}{(\ 298719\ )} \times \frac{(\ 25\ )}{(\ 1.63184\ )} =$ 24.272

Reported Result 24.272

File ID:	8112606
Compound:	1,2-DCA-d4
Initials:	CJ

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	8112601	BFB Tune Check	1476-60	50ng	2mL	1.00	11/26/07	1232	CB	
2	✓	02	ICAL Level 1	1576-90	0.2ppbv	0.2mL			1300	SMS	~~TO-14A 11-28-07 CJ~~
3	✓	03	2		0.5ppbv	0.5mL			1328	SMS	TO-14A
4	✓	04	3		2.0ppbv	2.0mL			1356	SMS	
5	✓	05	4		25ppbv	25mL			1423	SMS	
6	✓	06	5		50ppbv	50mL			1451	SMS	CCV
7	✓	07	6		100ppbv	100mL			1519	SMS	
8	✓	08	7		200ppbv	200mL			1549	SMS	

Signature

11/26/07
Date

9	✓	8112609	System Blank	13673	Hum.il	200ul	1-20	11/26/07	2027	SS	
10	✓	↓ 10	ICAL Level 1	1576-90	0.2ppbv	0.2ml	↑	↓	2101	SS	
11	X	8112611	ICAL LCS	1576-113A	50ppbv	100ml	↓	11/27/07	0817	CB	~~ICAL LCS~~
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

0074

11-28-07 C.T.

Comments:

Actual - 24.5 mL/min

Nominal - 22.3 mL/min

Flow Controller S/N #AA9506172 NIST Flow meter: ~~#20077~~ #118812 CB 11/28/07 exp. 6/11/08

CB 11/27/07

Signature [signature] Date 11/27/07

@ Air Toxics Ltd.

MSD-8

Logbook #: 1587

0075

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	25.16
75	30.0 – 60.0% of mass 95	51.39
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.48
173	Less than 2.0% of mass 174	(0.76)[1]
174	Greater than 50.0% of mass 95	58.99
175	5.0 – 9.0% of mass 174	(7.20)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.34)[1]
177	5.0 – 9.0% of mass 176	(6.34)[2]

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

Verify 176/174 m/z Ratio: 624717/648477 x 100 = 96.34%

BFB Injection Date: 11/27/07
BFB Injection Time: 0913
BFB File ID: 8112701
Tekmar Purge Flow: N/A
Vacuum: 1.0 x 10^{-5} torr

IS/S Std.#:	1443-373	Exp. Date: 2-26-08
BCM	~~315025~~	315025
1,4-DFB	~~1202661~~	1202661
CB-d5	~~888500~~	888500

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

NOAH Cart #: 14/15 **File #:** 5112708/8112713

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 509967\ )}{(\ 315025\ )} \times \frac{(\ 25\ )}{(\ 1.63184\ )} = 24.900$

11-28-07 CB

File ID:	8112712
Compound:	1,2-DCA
Initials:	CB

Reported Result ~~28.388~~ 24.800

11-28-07 CB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	8112701	BFB Tune Check	1476-60	50 mg	2uL	1.00	11/27/07	0913	CB	
2	X	02	ICAL Level 3	1576-134	200 ppbv - 2 ppbv	2mL			0957	CB	→ 11-29-07 CB
3	✓	03	5		- 50 ppbv	50mL			1024 (confirm)	CB	CCV 5p21a
4	✓	04	7	↓	- 200 ppbv	200mL			1054	CB	
5	✓	05	3	1443-375	- 2 ppbv	2mL			1133	CB	
6	✓	06	5		- 50 ppbv	50mL			1201	CB	CCV 9p16a
7	✓	07	7	↓	- 200 ppbv	200mL			1231	CB	
8	✓	08	System Blank	12941	Humid	200mL	↓	↓	1419	CB	

Signature

11/27/07
Date

9	✓	8112709	ICAL level 3	1576-134	200ppbv-2ppbv	2mL	1.00	11/27/07	1503	CB	Sp2la
10	X	10	CCV-1 (100ppbv)	1576-93A	50ppbv	100mL			1553	CB	3̶ 4 out ICAL 11-28-07 CB
11	✓	11	LCS-1 (100ppbv)	1576-113A	50ppbv	100mL			1620	SS	
12	✓	12	CCV-1 (100ppbv)	1576-90A	50ppbv	100mL			1659	SS	8 out
13	✓	13	LabBlank	12941	Humid	200mL			1800	SS	Cart#15 / leg#8
14	✓	14	Cart#5 / leg#6	12941	↓	↓	↓		1846	SS	
15	✓	8112715	0711373-01A	34608	6.0%@15psi	200mL	2.53		2005	SS	
16	✓	16	02A	25288	7.0%		2.64		2048	SS	
17	✓	17	03A	3397	8.0%		2.76		2130	CT	
18	✓	18	04A	34645	7.0%		2.64		2212	CT	
19	✓	19	05A	2215	7.0%		2.64		2255	CT	
20	✓	20	06A	2057	5.0%		2.42	↓	2337	CT	
21	✓	21	07A	23835	6.0%	↓	2.53	11/28/07	0019	CT	
22	X	22	08A	30824	5.5%	50mL	9.88		0056	CT	
23	✓	23	08A	↓	↓	200mL	2.47 (dilution 9.88 CB 11/28/07)		0214	CT	
24	✓	24	09A	34440 (corrected)	9.5	200mL	2.96		0336	CT	
25	✓	25	10A	22968	6.0	200mL	2.53		0418	CT	
26	X	26	11A	12805	7.0	15mL	35.2		0453	CB	RR@200mL
27	✓	27	11A		7.0	200mL	2.64		0545	CB	
28	✓	28	11AA	↓	7.0	200mL	↓		0627	CL	
29	✓	29	12A	2204	5.5		2.47		0710	CL	
30	✓	30	13A	2198	6.5		2.58		0752	CL	
31	✓	31	15A	35544	6.0	↓	2.76		0834	CB	
32		~~32~~	~~14A~~	~~2222~~	~~7.0~~	~~50mL~~	~~1060~~				~~100X~~ CB 11/28/07
		~~33~~	~~16A~~	~~20779~~	~~5.5~~	~~40mL~~	~~1240~~				~~100X~~ CB 11/28/07

Comments:

CB 11/28/07

Signature [signature] 11/28/07 Date

0076

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MSD-8

Logbook #: 1587

0077

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.87
75	30.0 – 60.0% of mass 95	53.97
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.61
173	Less than 2.0% of mass 174	(0.80)[1]
174	Greater than 50.0% of mass 95	60.83
175	5.0 – 9.0% of mass 174	(6.85)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.01)[1]
177	5.0 – 9.0% of mass 176	(6.63)[2]

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

Verify 176/174 m/z Ratio: 477709 / 502786 x100 = 95.01%

BFB Injection Date: 11/30/07

BFB Injection Time: 1003

BFB File ID: 8113001

Tekmar Purge Flow: ~~~~ CB 11/30/07

Vacuum: 1.6 x 10^{-5} torr

IS/S Std.#:	1443-373	Exp. Date: 2-26-08
BCM	330353	
1,4-DFB	1321799	
CB-d5	910759	

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

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 552557\ )}{(\ 330353\ )} \times \frac{(\ 25.0\ )}{(\ 1.63184\ )} =$ 25.625

Reported Result 25.625

File ID:	8113002
Compound:	1,2-DCA-d4
Initials:	CB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	8113001	BFB Tune Check	1476-60	50ng	2mL	1.00	11/30/07	1003	CB	
2	✓	02	CCV-1 (200ppbv)	1443-376 (CC 11/30/07)	50ppbv	50mL			1033	CB	
3	✓	03	LCS-1 (100ppbv)	1576-1124	50ppbv	100mL			1101	CB	
4	✓	04	ICAL Level 3	1443-374	200ppbv 2ppbv	2mL			1138	CB	Sp196 Sp214 Sp266
5	✓	05	5		200ppbv 50ppbv	50mL			1206	CB	CCV
6	✓	06	7		200ppbv	200mL			1236	CB	
7	✓	07	System Blank	13673	Humid	200mL			1315	CB	
8		CB	CCVsp (200ppbv)	1443-375	50ppbv	50mL					

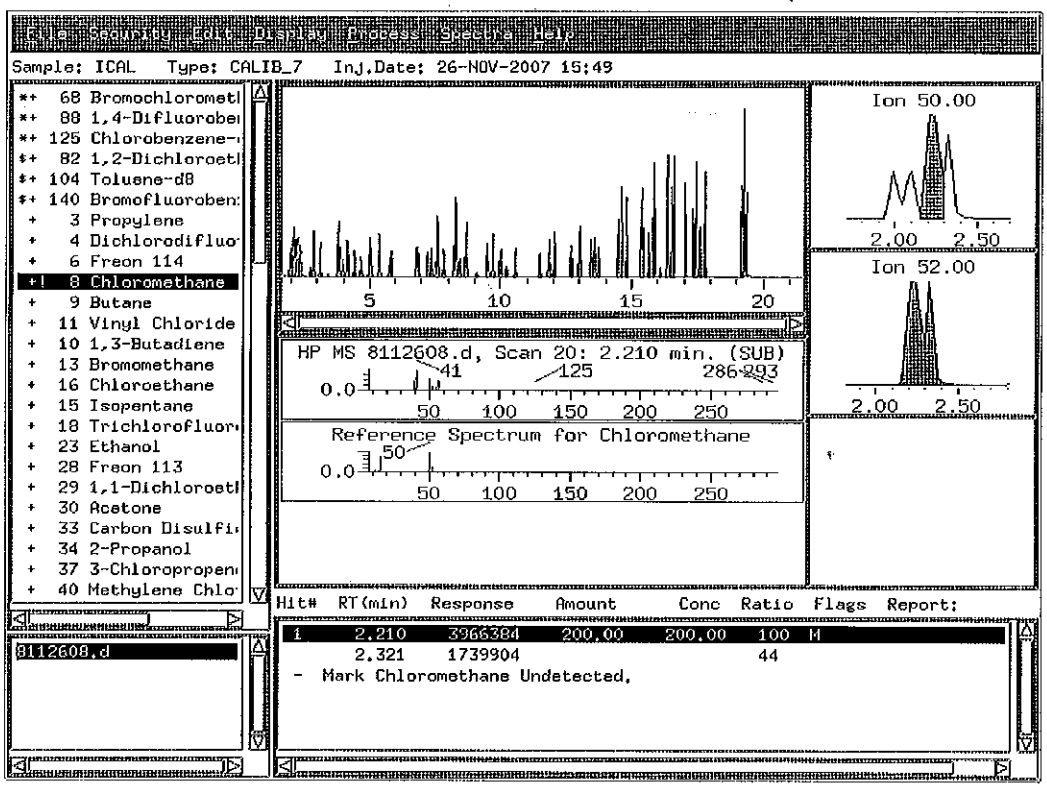
Signature

11/30/07
Date

Team A

Date / Initial	11-28-07 CS
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	X
Missed Peak	
Merged Peaks	

after

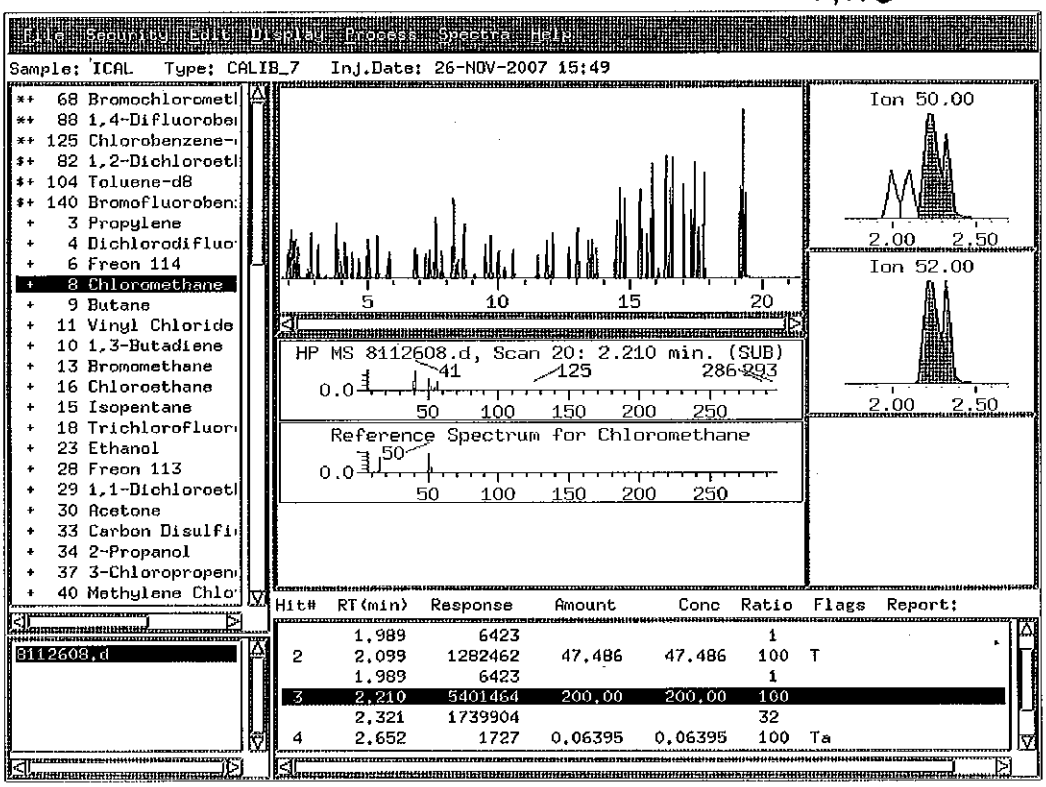


TJS
11-28-07

Team A

Date / Initial	11-28-07 CT
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

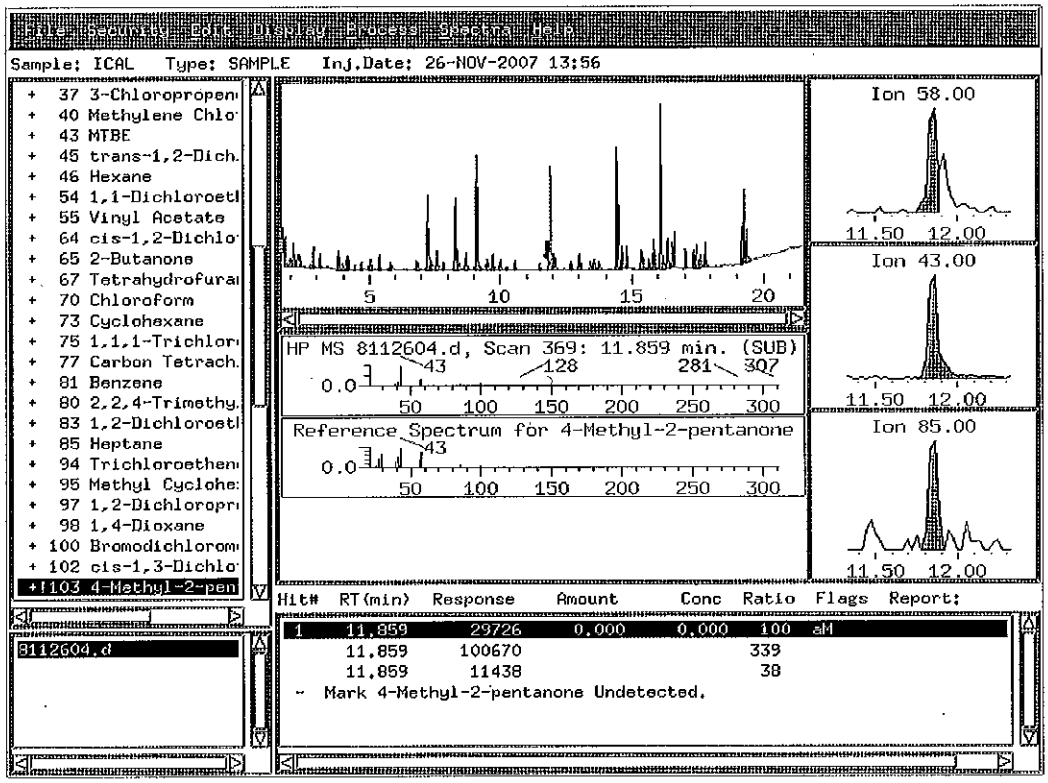
Before



Team A

Date / Initial	11-28-07 JS
Poor Integration	
Split Peak	
Peak Tailing	
Background Suotraction	
Zoom In	X
Missed Peak	
Merged Peaks	

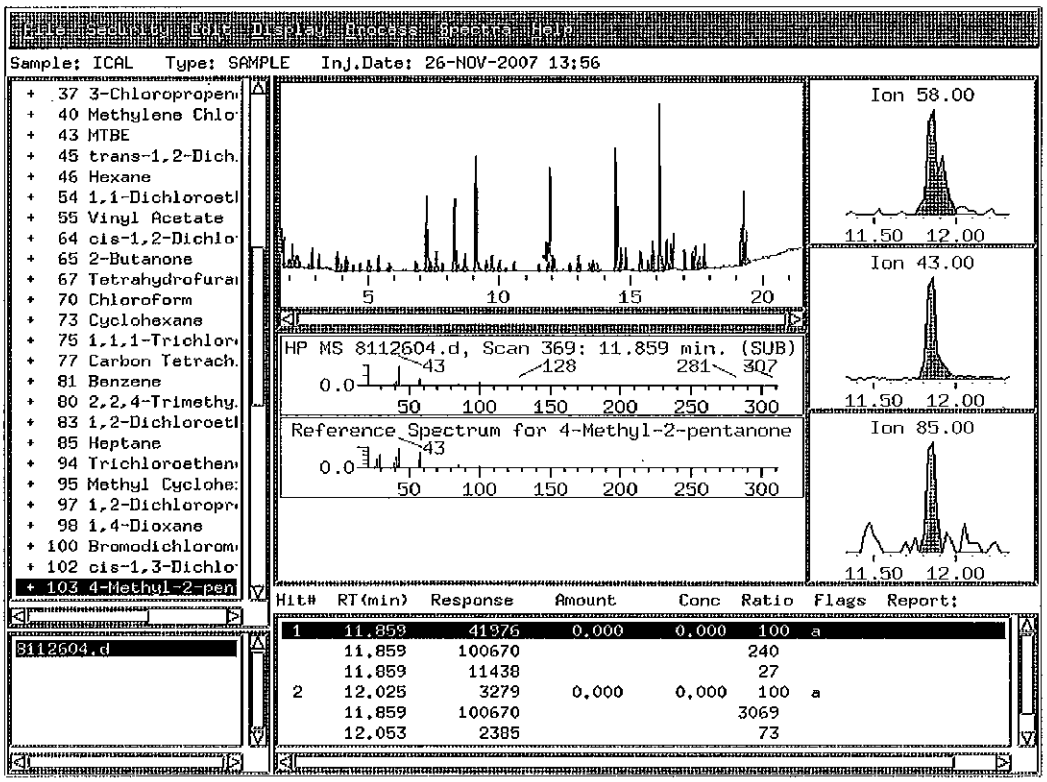
after



JS 11-28-07

Team A	
Date / Initial	11-28-07 CR
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

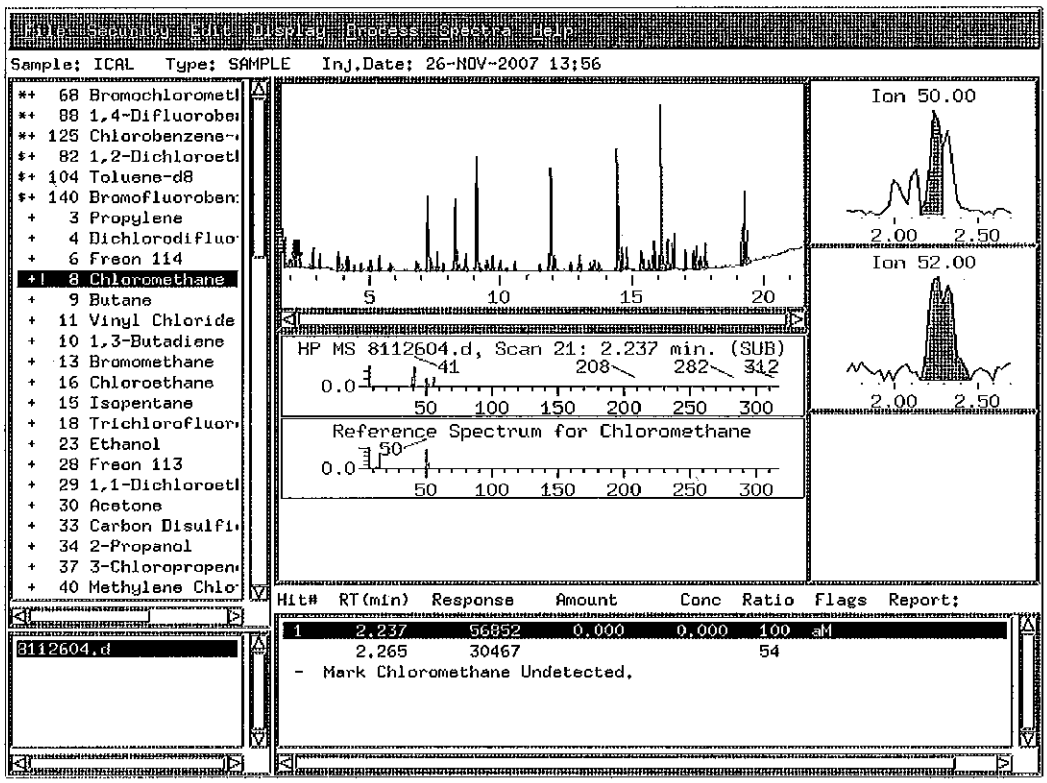
Before



Team A

Date / Initial	11-28-07 CP
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	X
Missed Peak	
Merged Peaks	

After

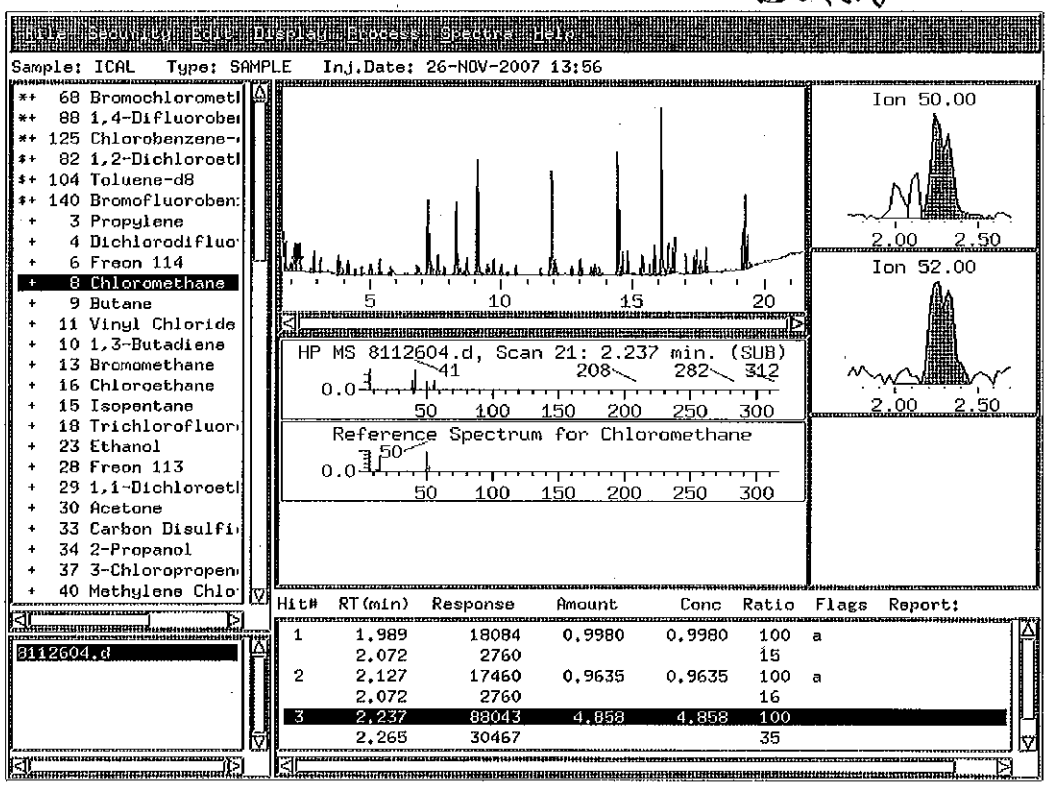


TOS 11-28-07

Team A

Date / Initial	11-28-07 CT
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

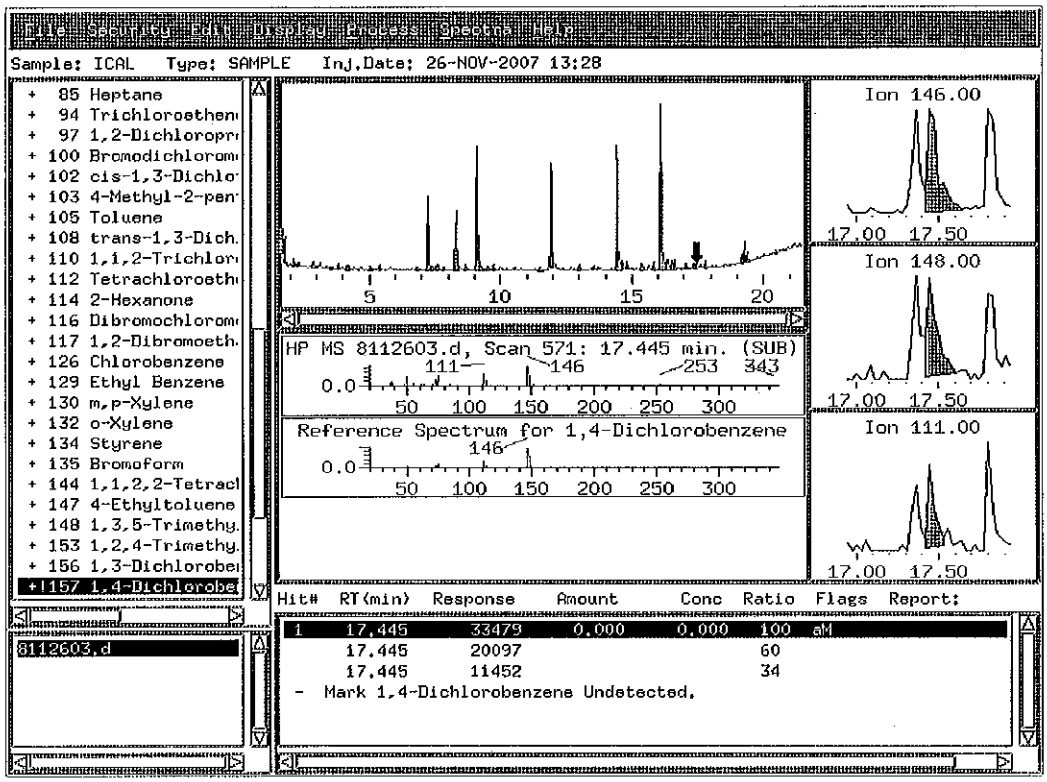
Before



Team A

Date / Initial	11-28-07 CS
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	X
Missed Peak	
Merged Peaks	

after

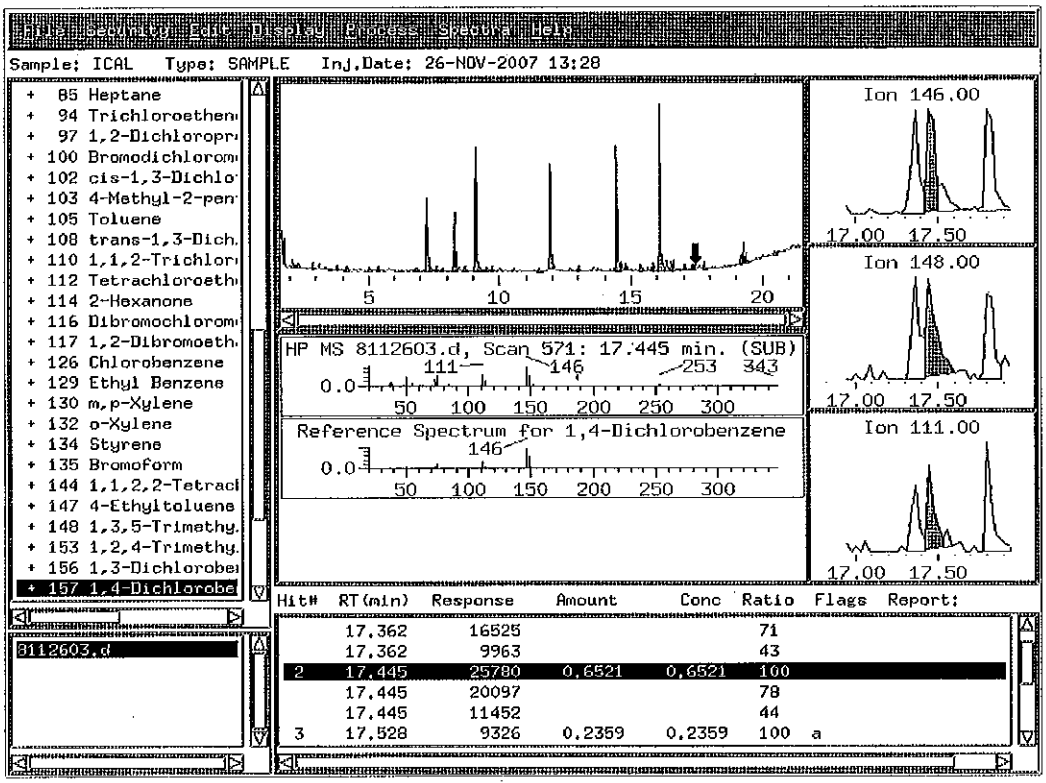


TOB 112807

Team A

Date / Initial	11-28-07 GP
Poor Integration	
Split Peak	X
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	

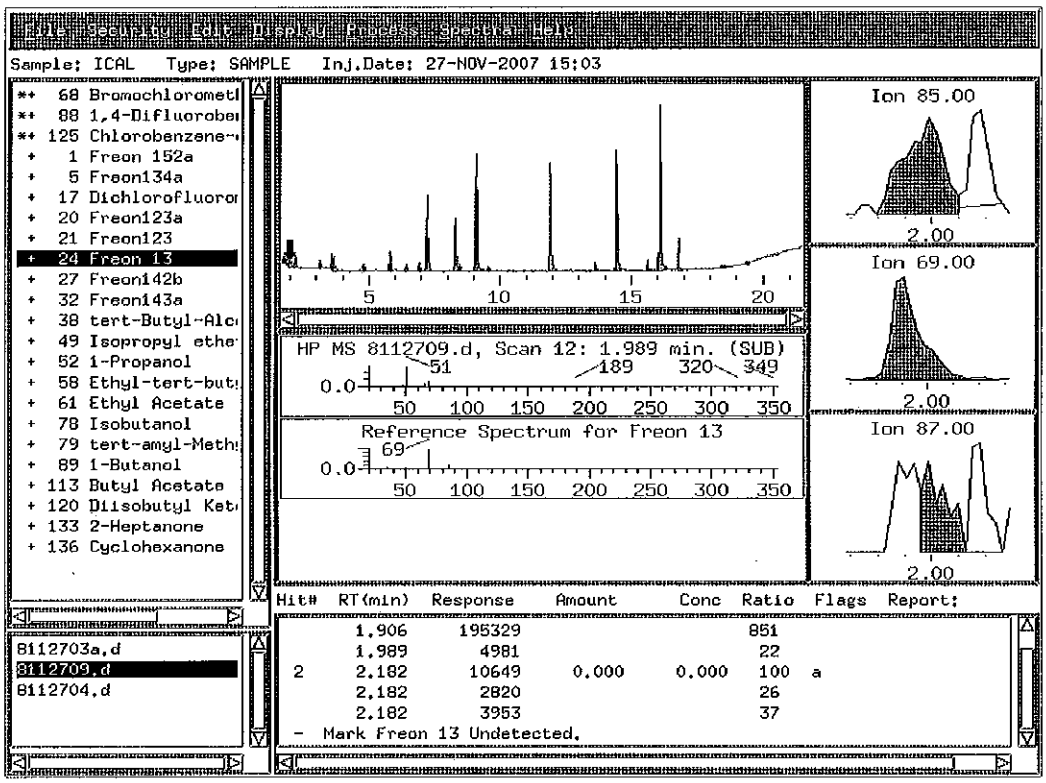
Before



Team A

Date / Initial	11-28-07 CP
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

Before

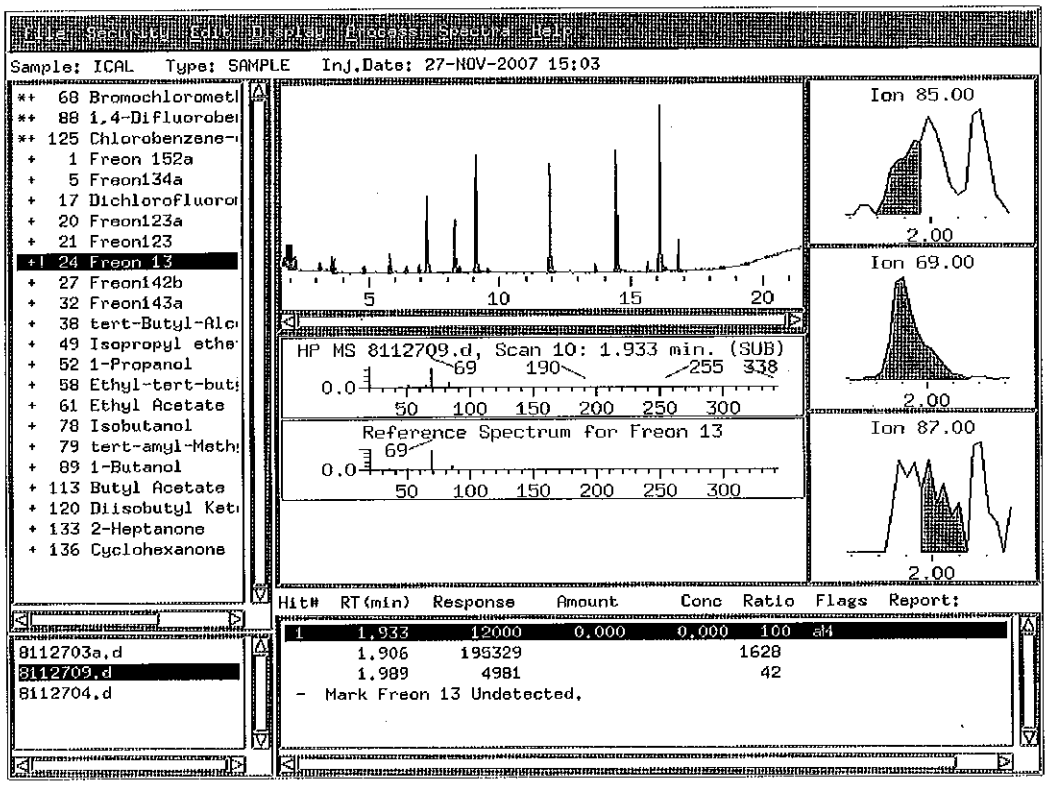


TJB 11-28-07

Team A

Date / Initial	11-28-07 CJ.
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	X
Missed Peak	
Merged Peaks	

After



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/msd8.i/8-27nov.b/8112711.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 27-NOV-2007 16:20
Operator : cb Inst ID: msd8.i
Smp Info : 100mL #1576-113A
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 16:30 ctaylor Quant Type: ISTD
Cal Date : 27-NOV-2007 12:31 Cal File: 8112707.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	291599	25.0000		80.00- 120.00	100.00
7.214	7.214 (1.000)	128	233079			44.89- 104.89	79.93
7.214	7.214 (1.000)	49	606478			172.75- 232.75	207.98
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1179550	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	219490			0.00- 48.34	18.61
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	847667	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	574939			0.00- 30.00	67.83
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	495906	26.0540	26.054	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	272895			28.82- 88.82	55.03
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1089005	25.1872	25.187	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	116325			0.00- 40.83	10.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	826185			45.72- 105.72	75.87
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	492955	26.3498	26.350	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	770207			123.66- 183.66	156.24
16.090	16.090 (1.115)	176	463365			64.90- 124.90	94.00
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	747458	41.1125	41.112	80.00- 120.00	100.00
1.933	1.933 (0.268)	42	502570			0.00- 30.00	67.24
1.933	1.933 (0.268)	39	514716			0.00- 30.00	68.86
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	1597046	35.7184	35.718	80.00- 120.00	100.00
1.989	1.989 (0.276)	87	517971			0.00- 30.00	32.43
6 Freon 114					CAS #: 76-14-2		
2.099	2.072 (0.291)	135	1197781	34.4684	34.468	80.00- 120.00	100.00(R)
2.099	2.072 (0.291)	137	384280			1.84- 61.84	32.08
8 Chloromethane					CAS #: 74-87-3		
2.210	2.210 (0.306)	50	821447	37.6068	37.607	80.00- 120.00	100.00
2.210	2.210 (0.306)	52	259779			0.00- 30.00	31.62
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.320 (0.325)	62	886644	36.0154	36.015	80.00- 120.00	100.00
2.348	2.320 (0.325)	64	268575			0.00- 30.00	30.29
10 1,3-Butadiene					CAS #: 106-99-0		
2.320	2.320 (0.322)	54	759309	35.0609	35.061	80.00- 120.00	100.00
2.320	2.320 (0.322)	39	774269			0.00- 30.00	101.97
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	613267	38.4926	38.492	80.00- 120.00	100.00
2.763	2.763 (0.383)	96	576967			64.59- 124.59	94.08
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.394)	64	432567	38.8890	38.889	80.00- 120.00	100.00
2.846	2.846 (0.394)	49	121631			0.00- 30.00	28.12
2.873	2.846 (0.398)	66	141507			0.00- 30.00	32.71
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.095 (0.433)	101	1689027	35.5260	35.526	80.00- 120.00	100.00
3.122	3.095 (0.433)	103	1102108			35.36- 95.36	65.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.426	3.399 (0.475)	45	366633	40.2242	40.224	80.00- 120.00	100.00
3.399	3.399 (0.471)	43	69409			0.00- 30.00	18.93
3.426	3.399 (0.475)	46	144098			0.00- 30.00	39.30
28 Freon 113					CAS #: 76-13-1		
3.814	3.813 (0.529)	151	1060882	39.7480	39.748	80.00- 120.00	100.00
3.814	3.813 (0.529)	153	674182			34.21- 94.21	63.55
3.814	3.813 (0.529)	101	1519088			113.68- 173.68	143.19
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	1346724	41.3754	41.375	80.00- 120.00	100.00
3.841	3.841 (0.532)	96	730140			25.89- 85.89	54.22
3.841	3.841 (0.532)	98	472408			5.40- 65.40	35.08
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	456514	39.8817	39.882	80.00- 120.00	100.00
3.979	3.979 (0.552)	43	1434233			0.00- 30.00	314.17
34 2-Propanol					CAS #: 67-63-0		
4.173	4.145 (0.578)	45	1657991	41.5471	41.547	80.00- 120.00	100.00
4.173	4.145 (0.578)	43	351776			0.00- 30.00	21.22
4.173	4.145 (0.578)	59	59889			0.00- 30.00	3.61
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	2278463	37.6124	37.612	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	366074	41.9190	41.919	80.00- 120.00	100.00
4.422	4.422 (0.613)	41	1259534			0.00- 30.00	344.07
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	1118845	39.6870	39.687	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	682807			32.99- 92.99	61.03
4.671	4.671 (0.647)	51	335841			0.00- 30.00	30.02
43 MTBE					CAS #: 1634-04-4		
5.002	5.002 (0.693)	73	1380795	44.2450	44.245	80.00- 120.00	100.00
5.002	5.002 (0.693)	57	373818			0.00- 58.19	27.07
5.002	5.002 (0.693)	41	396541			0.00- 30.00	28.72
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	784377	37.2619	37.262	80.00- 120.00	100.00
5.030	5.030 (0.697)	61	1267446			132.40- 192.40	161.59
5.030	5.030 (0.697)	98	497471			0.00- 30.00	63.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.390	5.362 (0.747)	57	1559931	39.5313	39.531	80.00- 120.00	100.00
5.362	5.362 (0.743)	43	1054058			0.00- 30.00	67.57
5.390	5.362 (0.747)	86	237250			0.00- 30.00	15.21
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	1544984	40.9905	40.990	80.00- 120.00	100.00
5.777	5.777 (0.801)	65	461230			0.16- 60.16	29.85
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	178724	42.4824	42.482	80.00- 120.00	100.00
5.860	5.860 (0.812)	43	2269350			0.00- 30.00	1269.75
5.860	5.860 (0.812)	42	180402			0.00- 30.00	100.94
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	358758	39.3361	39.336	80.00- 120.00	100.00
6.855	6.855 (0.950)	43	1800788			512.49- 572.49	501.95
6.855	6.855 (0.950)	57	129423			0.00- 30.00	36.08
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	1058028	37.1557	37.156	80.00- 120.00	100.00
6.800	6.800 (0.942)	96	707250			36.82- 96.82	66.85
6.800	6.800 (0.942)	98	451187			12.37- 72.37	42.64
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (1.000)	42	1021275	34.9385	34.938	80.00- 120.00	100.00
7.214	7.214 (1.000)	71	314242			0.09- 60.09	30.77
7.214	7.214 (1.000)	72	342273			0.00- 30.00	33.51
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	1361586	38.7574	38.757	80.00- 120.00	100.00
7.353	7.353 (1.019)	85	880225			35.42- 95.42	64.65
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.601 (1.054)	97	1322222	40.7076	40.708	80.00- 120.00	100.00
7.602	7.601 (1.054)	99	841888			35.03- 95.03	63.67
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	1041586	37.4965	37.496	80.00- 120.00	100.00
7.574	7.574 (1.050)	56	1430452			109.37- 169.37	137.33
7.574	7.574 (1.050)	41	804127			46.90- 106.90	77.20
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	1135972	44.1066	44.107	80.00- 120.00	100.00
7.823	7.823 (1.084)	117	1180267			74.02- 134.02	103.90

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		
8.293	8.293 (1.149)	57	4340073	38.9319	38.932	80.00- 120.00	100.00
8.293	8.293 (1.149)	56	1346048			0.00- 30.00	31.01
8.293	8.293 (1.149)	41	1110685			0.00- 30.00	25.59
81 Benzene					CAS #: 71-43-2		
8.237	8.237 (0.906)	78	2139525	35.6948	35.695	80.00- 120.00	100.00
8.237	8.237 (0.906)	77	480429			0.00- 30.00	22.45
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	1004545	36.2331	36.233	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	303114			0.00- 30.00	30.17
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	230083	36.4916	36.492	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	1604868			0.00- 30.00	697.52
8.680	8.680 (0.954)	71	752723			0.00- 30.00	327.15
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	800318	36.0825	36.082	80.00- 120.00	100.00
9.482	9.482 (1.043)	130	736537			62.04- 122.04	92.03
9.482	9.482 (1.043)	97	512091			35.46- 95.46	63.99
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	784171	36.5220	36.522	80.00- 120.00	100.00
10.007	10.007 (1.100)	62	543163			37.25- 97.25	69.27
9.979	10.007 (1.097)	41	492188			34.07- 94.07	62.77
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	440079	38.7425	38.742	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	369073			51.87- 111.87	83.87
10.228	10.228 (1.125)	57	111360			0.00- 30.00	25.30
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	1281441	37.6218	37.622	80.00- 120.00	100.00
10.560	10.560 (1.161)	85	808701			32.06- 92.06	63.11
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	961591	37.8182	37.818	80.00- 120.00	100.00
11.500	11.500 (1.264)	77	301336			1.80- 61.80	31.34
11.500	11.500 (1.264)	39	617681			33.56- 93.56	64.24
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	625107	40.7693	40.769	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	1692883			0.00- 30.00	270.81
11.832	11.832 (1.301)	85	235971			0.00- 30.00	37.75

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	2063127	38.7569	38.757	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	1221088			29.18- 89.18	59.19
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	991940	39.4016	39.402	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	302847			1.13- 61.13	30.53
12.689	12.689 (0.879)	39	569138			30.79- 90.79	57.38
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	661295	39.1407	39.141	80.00- 120.00	100.00
12.993	12.993 (0.900)	99	409922			32.30- 92.30	61.99
12.993	12.993 (0.900)	83	584344			60.15- 120.15	88.36
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.048 (0.902)	166	763204	37.6525	37.652	80.00- 120.00	100.00
13.021	13.048 (0.902)	129	614627			52.23- 112.23	80.53
13.021	13.048 (0.902)	131	588163			50.00- 110.00	77.06
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.435 (0.931)	58	779388	40.8203	40.820	80.00- 120.00	100.00
13.436	13.435 (0.931)	43	1608254			171.83- 231.83	206.35
13.436	13.435 (0.931)	100	128833			0.00- 30.00	16.53
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	955177	37.6690	37.669	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	759999			0.00- 30.00	79.57
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	1066380	37.4818	37.482	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	983714			65.57- 125.57	92.25
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	1535082	37.2685	37.268	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	471139			2.36- 62.36	30.69
14.486	14.486 (1.004)	77	1028867			36.61- 96.61	67.02
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.013)	106	852498	36.4767	36.477	80.00- 120.00	100.00
14.624	14.624 (1.013)	91	2769003			0.00- 30.00	324.81
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	1089437	37.4834	37.483	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	2174345			0.00- 30.00	199.58
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	1036359	39.2171	39.217	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)							
15.371	15.371 (1.065)	91	2208865			184.30- 244.30	213.14
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	1655421	39.1074	39.107	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	908156			25.30- 85.30	54.86
135 Bromoform					CAS #: 75-25-2		
15.648	15.647 (1.084)	173	874764	39.6703	39.670	80.00- 120.00	100.00
15.648	15.647 (1.084)	171	453823			22.29- 82.29	51.88
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	1524518	36.2773	36.277	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	990131			33.93- 93.93	64.95
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	3115814	39.1488	39.149	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	871930			0.00- 56.86	27.98
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	2990215	36.9302	36.930	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	1302202			0.00- 30.00	43.55
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	2530922	38.1840	38.184	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	1006958			9.42- 69.42	39.79
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	1415231	36.4367	36.437	80.00- 120.00	100.00
17.362	17.362 (1.203)	148	885920			0.00- 30.00	62.60
17.334	17.362 (1.201)	111	631073			0.00- 30.00	44.59
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	1774377	34.8469	34.847	80.00- 120.00	100.00(R)
17.445	17.445 (1.209)	148	1100157			0.00- 30.00	62.00
17.445	17.445 (1.209)	111	802427			0.00- 30.00	45.22
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	2197826	37.3996	37.400	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	409235			0.00- 30.00	18.62
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	1449864	34.8876	34.888	80.00- 120.00	100.00(R)
17.804	17.804 (1.234)	148	905633			32.95- 92.95	62.46
17.804	17.804 (1.234)	111	719017			20.57- 80.57	49.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	1381761	31.9981	31.998	80.00- 120.00	100.00(R)
19.187	19.187 (1.330)	182	1288910			64.03- 124.03	93.28
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	979038	33.7265	33.726	80.00- 120.00	100.00(R)
19.270	19.270 (1.335)	223	601041			34.20- 94.20	61.39
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	3914360	40.5973	40.597	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	792885			0.00- 30.00	20.26
16.366	16.366 (1.134)	105	133982			0.00- 30.00	3.42
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	3319859	40.6130	40.613	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	778506			0.00- 30.00	23.45
15.841	15.841 (1.098)	51	424353			0.00- 30.00	12.78
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	2927599	30.2668	30.267	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	363913			0.00- 30.00	12.43
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	208013	40.8804	40.880	80.00- 120.00	100.00
2.265	2.265 (0.314)	43	1577803			0.00- 30.00	758.51
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	1266316	38.6247	38.625	80.00- 120.00	100.00
2.873	2.846 (0.398)	57	818678			0.00- 30.00	64.65
2.846	2.846 (0.394)	72	79781			0.00- 30.00	6.30
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.731	9.730 (1.349)	83	1310485	40.6365	40.636	80.00- 120.00	100.00
9.731	9.730 (1.349)	98	576651			0.00- 30.00	44.00
9.703	9.730 (1.345)	55	1241607			0.00- 30.00	94.74

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112711.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 27-NOV-2007
Calibration Time: 16:59
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315025	189015	441035	291599	-7.44
88 1,4-Difluorobenze	1202661	721597	1683725	1179550	-1.92
125 Chlorobenzene-d5	888500	533100	1243900	847667	-4.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 28-Nov-2007 16:33

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-27nov
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: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 100ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	39.107	78.21	70-130
108 trans-1,3-Dichloro	50.000	39.402	78.80	70-130
3 Propylene	50.000	41.112	82.23	60-140
4 Dichlorodifluorome	50.000	35.718	71.44	70-130
6 Freon 114	50.000	34.468	68.94*	70-130
8 Chloromethane	50.000	37.607	75.21	70-130
11 Vinyl Chloride	50.000	36.015	72.03	70-130
10 1,3-Butadiene	50.000	35.061	70.12	60-140
13 Bromomethane	50.000	38.492	76.99	70-130
16 Chloroethane	50.000	38.889	77.78	70-130
18 Trichlorofluoromet	50.000	35.526	71.05	70-130
23 Ethanol	50.000	40.224	80.45	60-140
28 Freon 113	50.000	39.748	79.50	70-130
29 1,1-Dichloroethene	50.000	41.375	82.75	70-130
30 Acetone	50.000	39.882	79.76	60-140
33 Carbon Disulfide	50.000	37.612	75.22	60-140
34 2-Propanol	50.000	41.547	83.09	60-140
40 Methylene Chloride	50.000	39.687	79.37	70-130
43 MTBE	50.000	44.245	88.49	60-140
45 trans-1,2-Dichloro	50.000	37.262	74.52	60-140
46 Hexane	50.000	39.531	79.06	60-140
54 1,1-Dichloroethane	50.000	40.990	81.98	70-130
55 Vinyl Acetate	50.000	42.482	84.96	60-140
64 cis-1,2-Dichloroet	50.000	37.156	74.31	70-130
65 2-Butanone	50.000	39.336	78.67	60-140
67 Tetrahydrofuran	50.000	34.938	69.88	60-140
70 Chloroform	50.000	38.757	77.51	70-130
73 Cyclohexane	50.000	37.496	74.99	60-140
75 1,1,1-Trichloroeth	50.000	40.708	81.42	70-130
77 Carbon Tetrachlori	50.000	44.107	88.21	70-130
81 Benzene	50.000	35.695	71.39	70-130
83 1,2-Dichloroethane	50.000	36.233	72.47	70-130
85 Heptane	50.000	36.492	72.98	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	36.082	72.17	70-130
97 1,2-Dichloropropan	50.000	36.522	73.04	70-130
98 1,4-Dioxane	50.000	38.742	77.48	60-140
100 Bromodichlorometha	50.000	37.622	75.24	60-140
102 cis-1,3-Dichloropr	50.000	37.818	75.64	70-130
103 4-Methyl-2-pentano	50.000	40.769	81.54	60-140
105 Toluene	50.000	38.757	77.51	70-130
110 1,1,2-Trichloroeth	50.000	39.141	78.28	70-130
112 Tetrachloroethene	50.000	37.652	75.30	70-130
114 2-Hexanone	50.000	40.820	81.64	60-140
116 Dibromochlorometha	50.000	37.669	75.34	60-140
117 1,2-Dibromoethane	50.000	37.482	74.96	70-130
126 Chlorobenzene	50.000	37.268	74.54	70-130
129 Ethyl Benzene	50.000	36.477	72.95	70-130
130 m,p-Xylene	50.000	37.483	74.97	70-130
132 o-Xylene	50.000	39.217	78.43	70-130
135 Bromoform	50.000	39.670	79.34	60-140
144 1,1,2,2-Tetrachlor	50.000	36.277	72.55	70-130
147 4-Ethyltoluene	50.000	39.149	78.30	60-140
148 1,3,5-Trimethylben	50.000	36.930	73.86	70-130
153 1,2,4-Trimethylben	50.000	38.184	76.37	70-130
156 1,3-Dichlorobenzen	50.000	36.437	72.87	70-130
157 1,4-Dichlorobenzen	50.000	34.847	69.69*	70-130
158 alpha-Chlorotoluen	50.000	37.400	74.80	70-130
161 1,2-Dichlorobenzen	50.000	34.888	69.78*	70-130
167 1,2,4-Trichloroben	50.000	31.998	64.00*	70-130
168 Hexachlorobutadien	50.000	33.726	67.45*	70-130
137 Cumene	50.000	40.613	81.23	60-140
145 Propylbenzene	50.000	40.597	81.19	60-140
37 3-Chloropropene	50.000	41.919	83.84	60-140
80 2,2,4-Trimethylpen	50.000	38.932	77.86	60-140
169 Naphthalene	50.000	30.267	60.53	60-140
9 Butane	50.000	40.880	81.76	70-130
15 Isopentane	50.000	38.625	77.25	70-130
95 Methyl Cyclohexane	50.000	40.636	81.27	70-130

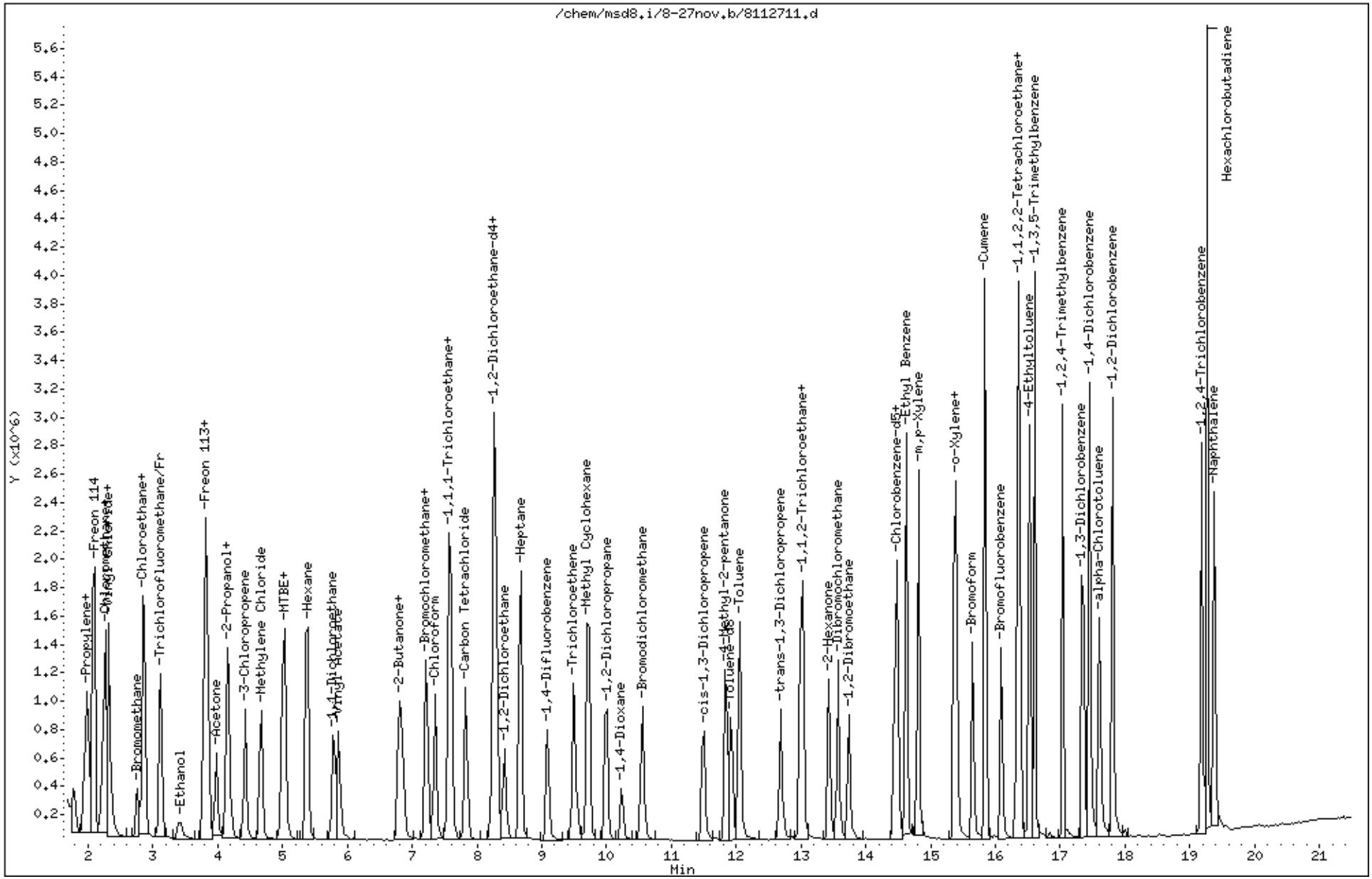
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	26.054	104.22	70-130
$ 104 Toluene-d8	25.000	25.187	100.75	70-130
$ 140 Bromofluorobenzene	25.000	26.350	105.40	70-130

0100

Data File: /chem/msd8.i/8-27nov.b/8112711.d
Date : 27-NOV-2007 16:20
Client ID: LCS-1
Sample Info: 100mL #1576-113A

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26nov.b/8112610.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 26-NOV-2007 21:01
Operator : cb Inst ID: msd8.i
Smp Info : 0.2mL #1576-90
Misc Info : 200ppbv --> 0.2ppbv
Comment :
Method : /chem/msd8.i/8-26nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 15:48 ctaylor Quant Type: ISTD
Cal Date : 26-NOV-2007 21:01 Cal File: 8112610.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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane					CAS #: 74-97-5			
7.214	7.214 (1.000)	130	305521	25.0000		70.00- 130.00		100.00
7.214	7.214 (1.000)	128	234781			49.96- 109.96		76.85
7.214	7.214 (1.000)	49	622080			170.41- 230.41		203.61
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
9.095	9.095 (1.000)	114	1204383	25.0000		70.00- 130.00		100.00
9.095	9.095 (1.000)	88	217109			0.00- 47.71		18.03
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.431	14.431 (1.000)	117	884684	25.0000		70.00- 130.00		100.00
14.431	14.431 (1.000)	82	590482			0.00- 30.00		66.74
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.293	8.293 (1.149)	65	493612	25.0000	24.752	70.00- 130.00		100.00
8.293	8.293 (1.149)	67	242278			0.00- 30.00		49.08
$ 104 Toluene-d8					CAS #: 2037-26-5			
11.915	11.915 (1.310)	98	1094027	25.0000	24.782	70.00- 130.00		100.00
11.915	11.915 (1.310)	70	119376			0.00- 30.00		10.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	729248			0.00- 30.00	66.66
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	459081	25.0000	23.512	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	770160			135.23- 195.23	167.76
16.090	16.090 (1.115)	176	458202			65.72- 125.72	99.81
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	7228	0.20000	0.1964	70.00- 130.00	100.00(a)
7.353	7.353 (1.019)	85	5074			35.21- 95.21	70.20
81 Benzene					CAS #: 71-43-2		
8.237	8.237 (0.906)	78	13763	0.20000	0.2249	70.00- 130.00	100.00(a)
8.265	8.265 (0.909)	77	4527			0.00- 30.00	32.89
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	6916	0.20000	0.1565	70.00- 130.00	100.00(a)
15.399	15.399 (1.067)	78	3648			23.11- 83.11	52.75
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	15086	0.20000	0.1768	70.00- 130.00	100.00(a)
15.841	15.841 (1.098)	120	5202			0.00- 30.00	34.48
15.841	15.841 (1.098)	51	1957			0.00- 30.00	12.97

QC Flag Legend

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

Report Date: 28-Nov-2007 15:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112610.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26nov.b/t14qn26a.m
Misc Info: 200ppbv --> 0.2ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 14:51
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	298719	179231	418207	305521	2.28
88 1,4-Difluorobenze	1167702	700621	1634783	1204383	3.14
125 Chlorobenzene-d5	849922	509953	1189891	884684	4.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

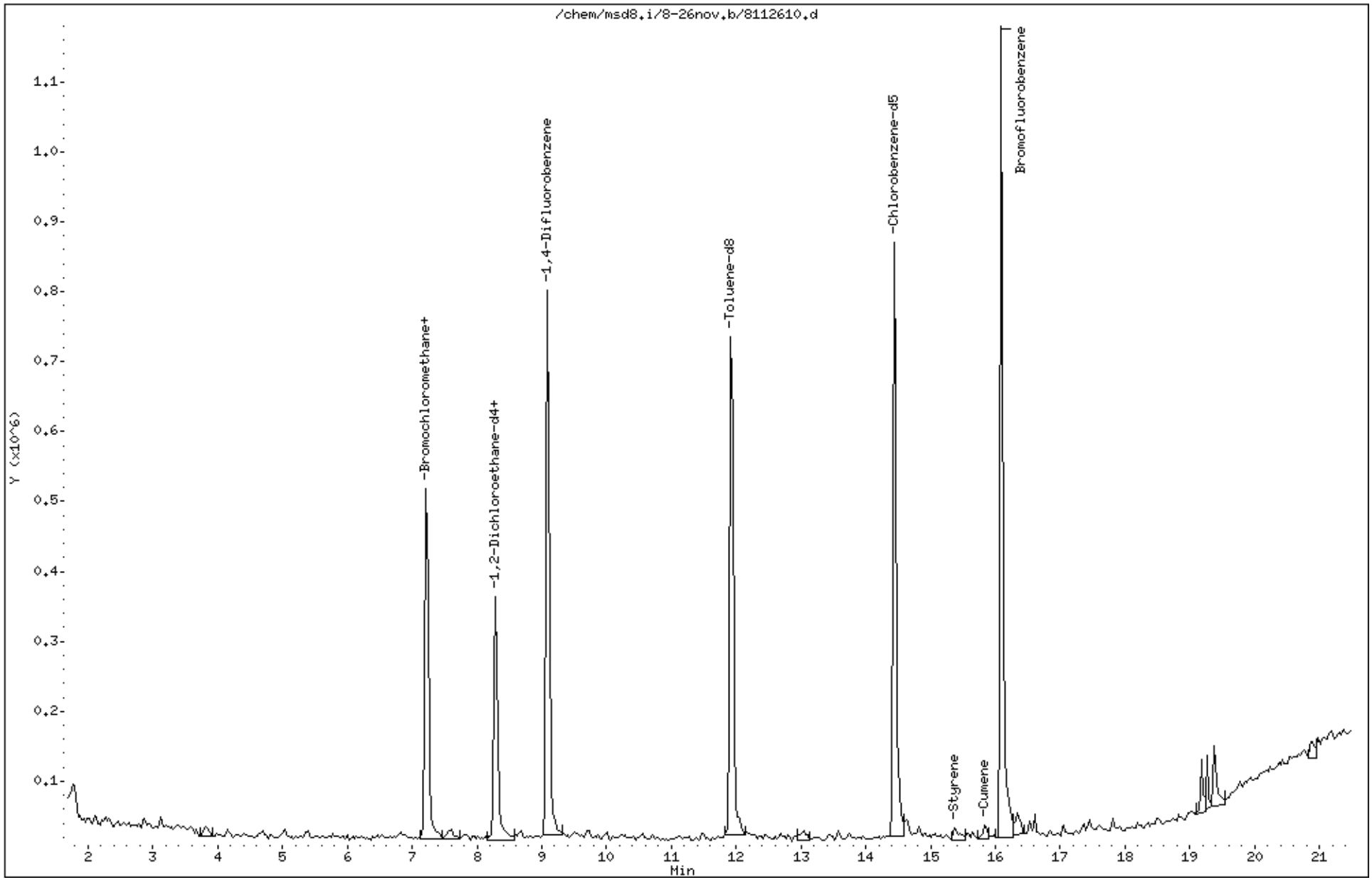
0104

Data File: /chem/msd8.i/8-26nov.b/8112610.d
Date : 26-NOV-2007 21:01
Client ID: Level 1
Sample Info: 0.2mL #1576-90

Instrument: msd8.i

Operator: cb

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26nov.b/8112603.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 26-NOV-2007 13:28
Operator : cb Inst ID: msd8.i
Smp Info : 0.5mL #1576-90
Misc Info : 200ppbv --> 0.5ppbv
Comment :
Method : /chem/msd8.i/8-26nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 15:47 ctaylor Quant Type: ISTD
Cal Date : 26-NOV-2007 13:28 Cal File: 8112603.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane						CAS #: 74-97-5	
7.242	7.242 (1.000)	130	298230	25.0000		70.00- 130.00	100.00
7.242	7.242 (1.000)	128	223842			49.96- 109.96	75.06
7.214	7.214 (1.000)	49	606734			170.41- 230.41	203.44
* 88 1,4-Difluorobenzene						CAS #: 540-36-3	
9.095	9.095 (1.000)	114	1149529	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	209798			0.00- 47.71	18.25
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.459	14.459 (1.000)	117	816498	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	524162			0.00- 30.00	64.20
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
8.293	8.293 (1.145)	65	463365	25.0000	25.000	70.00- 130.00	100.00
8.293	8.293 (1.145)	67	221564			0.00- 30.00	47.82
$ 104 Toluene-d8						CAS #: 2037-26-5	
11.915	11.915 (1.310)	98	1005247	25.0000	25.000	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	108000			0.00- 30.00	10.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	678114			0.00- 30.00	67.46
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.113)	174	432578	25.0000	25.000	70.00- 130.00	100.00
16.090	16.090 (1.113)	95	697757			135.23- 195.23	161.30
16.090	16.090 (1.113)	176	414915			65.72- 125.72	95.92
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.275)	85	27139	0.50000	0.5000	70.00- 130.00	100.00
2.016	2.016 (0.278)	87	10020			0.00- 30.00	36.92
6 Freon 114					CAS #: 76-14-2		
2.127	2.127 (0.294)	135	26180	0.50000	0.5000	70.00- 130.00	100.00
2.127	2.127 (0.294)	137	7235			0.48- 60.48	27.64
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.348 (0.324)	62	16359	0.50000	0.5000	70.00- 130.00	100.00
2.348	2.348 (0.324)	64	6587			0.00- 30.00	40.27
10 1,3-Butadiene					CAS #: 106-99-0		
2.320	2.320 (0.320)	54	14537	0.50000	0.5000	70.00- 130.00	100.00
2.320	2.320 (0.320)	39	16688			0.00- 30.00	114.80
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.382)	94	8975	0.50000	0.5000	70.00- 130.00	100.00
2.791	2.791 (0.385)	96	12336			63.81- 123.81	137.45
16 Chloroethane					CAS #: 75-00-3		
2.874	2.874 (0.397)	64	6620	0.50000	0.5000	70.00- 130.00	100.00
2.874	2.874 (0.397)	49	1234			0.00- 30.00	18.64
2.874	2.874 (0.397)	66	2765			0.00- 30.00	41.77
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.431)	101	34596	0.50000	0.5000	70.00- 130.00	100.00
3.122	3.122 (0.431)	103	22189			35.69- 95.69	64.14
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.527)	151	18912	0.50000	0.5000	70.00- 130.00	100.00
3.814	3.814 (0.527)	153	10656			33.61- 93.61	56.35
3.814	3.814 (0.527)	101	27688			114.18- 174.18	146.40
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.869	3.869 (0.534)	61	20457	0.50000	0.5000	70.00- 130.00	100.00
3.869	3.869 (0.534)	96	13222			27.60- 87.60	64.63
3.841	3.841 (0.530)	98	8371			6.05- 66.05	40.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Carbon Disulfide					CAS #: 75-15-0		
4.173	4.173 (0.576)	76	37782	0.50000	0.5000	70.00- 130.00	100.00
40 Methylene Chloride					CAS #: 75-09-2		
4.698	4.698 (0.649)	49	19614	0.50000	0.5000	70.00- 130.00	100.00
4.698	4.698 (0.649)	84	13364			32.58- 92.58	68.14
4.698	4.698 (0.649)	51	9143			0.00- 30.00	46.61
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.691)	73	14244	0.50000	0.5000	70.00- 130.00	100.00
5.003	5.003 (0.691)	57	6035			0.00- 58.28	42.37
5.003	5.003 (0.691)	41	6806			0.00- 30.00	47.78
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.695)	96	13836	0.50000	0.5000	70.00- 130.00	100.00
5.058	5.058 (0.698)	61	20510			131.28- 191.28	148.24
5.058	5.058 (0.698)	98	8596			0.00- 30.00	62.13
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.744)	57	23676	0.50000	0.5000	70.00- 130.00	100.00
5.390	5.390 (0.744)	43	16873			0.00- 30.00	71.27
5.390	5.390 (0.744)	86	4526			0.00- 30.00	19.12
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.804	5.804 (0.801)	63	22330	0.50000	0.5000	70.00- 130.00	100.00
5.804	5.804 (0.801)	65	8314			0.46- 60.46	37.23
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.947)	72	5393	0.50000	0.5000	70.00- 130.00	100.00
6.855	6.855 (0.947)	43	28627			489.89- 549.89	530.82
6.855	6.855 (0.947)	57	2690			0.00- 30.00	49.88
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.939)	61	20133	0.50000	0.5000	70.00- 130.00	100.00
6.800	6.800 (0.939)	96	14066			38.44- 98.44	69.87
6.800	6.800 (0.939)	98	7000			14.66- 74.66	34.77
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (0.996)	42	23306	0.50000	0.5000	70.00- 130.00	100.00
7.214	7.214 (0.996)	71	6845			0.56- 60.56	29.37
7.214	7.214 (0.996)	72	6340			0.00- 30.00	27.20
70 Chloroform					CAS #: 67-66-3		
7.380	7.380 (1.019)	83	23157	0.50000	0.5000	70.00- 130.00	100.00
7.380	7.380 (1.019)	85	15514			35.21- 95.21	66.99

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		
7.602	7.602 (1.050)	97	20019	0.50000	0.5000	70.00- 130.00	100.00
7.602	7.602 (1.050)	99	13505			34.90- 94.90	67.46
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.046)	84	17991	0.50000	0.5000	70.00- 130.00	100.00
7.574	7.574 (1.046)	56	22353			103.12- 163.12	124.25
7.574	7.574 (1.046)	41	12804			44.68- 104.68	71.17
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.850	7.850 (1.084)	119	14348	0.50000	0.5000	70.00- 130.00	100.00
7.850	7.850 (1.084)	117	20080			73.18- 133.18	139.95
81 Benzene					CAS #: 71-43-2		
8.265	8.265 (0.909)	78	36262	0.50000	0.5000	70.00- 130.00	100.00
8.265	8.265 (0.909)	77	9034			0.00- 30.00	24.91
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	19393	0.50000	0.5000	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	6191			0.00- 30.00	31.92
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	3750	0.50000	0.5000	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	20666			0.00- 30.00	551.09
8.680	8.680 (0.954)	71	11552			0.00- 30.00	308.05
94 Trichloroethene					CAS #: 79-01-6		
9.509	9.509 (1.046)	95	14002	0.50000	0.5000	70.00- 130.00	100.00
9.509	9.509 (1.046)	130	14938			62.02- 122.02	106.68
9.482	9.482 (1.043)	97	5090			33.03- 93.03	36.35
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	14804	0.50000	0.5000	70.00- 130.00	100.00
10.007	10.007 (1.100)	62	10481			37.83- 97.83	70.80
10.007	10.007 (1.100)	41	9184			32.95- 92.95	62.04
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	21095	0.50000	0.5000	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	13273			33.18- 93.18	62.92
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	14151	0.50000	0.5000	70.00- 130.00	100.00
11.500	11.500 (1.264)	77	4839			1.32- 61.32	34.20
11.500	11.500 (1.264)	39	10277			35.06- 95.06	72.62
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.860	11.860 (1.304)	58	8270	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 4-Methyl-2-pentanone (continued)							
11.860	11.860 (1.304)	43	26218			0.00- 30.00	317.03
11.860	11.860 (1.304)	85	4101			0.00- 30.00	49.59
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	32358	0.50000	0.5000	70.00- 130.00	100.00
12.081	12.081 (1.328)	92	20266			28.31- 88.31	62.63
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.878)	75	14679	0.50000	0.5000	70.00- 130.00	100.00
12.689	12.689 (0.878)	77	4831			0.46- 60.46	32.91
12.689	12.689 (0.878)	39	9334			30.65- 90.65	63.59
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.899)	97	9328	0.50000	0.5000	70.00- 130.00	100.00
12.993	12.993 (0.899)	99	7599			31.04- 91.04	81.46
12.993	12.993 (0.899)	83	8991			60.00- 120.00	96.39
112 Tetrachloroethene					CAS #: 127-18-4		
13.048	13.048 (0.902)	166	12339	0.50000	0.5000	70.00- 130.00	100.00
13.021	13.021 (0.901)	129	10849			52.58- 112.58	87.92
13.048	13.048 (0.902)	131	10544			48.92- 108.92	85.45
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.929)	58	8236	0.50000		70.00- 130.00	100.00(a)
13.436	13.436 (0.929)	43	21507			173.64- 233.64	261.13
13.436	13.436 (0.929)	100	2276			0.00- 30.00	27.63
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.939)	129	15321	0.50000	0.5000	70.00- 130.00	100.00
13.574	13.574 (0.939)	127	10747			0.00- 30.00	70.15
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.950)	107	17371	0.50000	0.5000	70.00- 130.00	100.00
13.740	13.740 (0.950)	109	15218			63.89- 123.89	87.61
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.002)	112	25759	0.50000	0.5000	70.00- 130.00	100.00
14.486	14.486 (1.002)	114	9131			1.43- 61.43	35.45
14.486	14.486 (1.002)	77	25340			35.27- 95.27	98.37
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.011)	106	13758	0.50000	0.5000	70.00- 130.00	100.00
14.624	14.624 (1.011)	91	43044			0.00- 30.00	312.87
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.025)	106	17577	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
14.818	14.818 (1.025)	91	35544			0.00- 30.00	202.22
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.063)	106	15402	0.50000	0.5000	70.00- 130.00	100.00
15.371	15.371 (1.063)	91	33865			182.92- 242.92	219.87
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.065)	104	23549	0.50000	0.5000	70.00- 130.00	100.00
15.399	15.399 (1.065)	78	16306			23.11- 83.11	69.24
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.082)	173	11384	0.50000	0.5000	70.00- 130.00	100.00
15.648	15.648 (1.082)	171	6592			20.18- 80.18	57.91
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.130)	83	23270	0.50000	0.5000	70.00- 130.00	100.00
16.339	16.339 (1.130)	85	15843			34.57- 94.57	68.08
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.143)	105	41466	0.50000	0.5000	70.00- 130.00	100.00
16.532	16.532 (1.143)	120	13460			0.00- 56.93	32.46
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.149)	105	45374	0.50000	0.5000	70.00- 130.00	100.00
16.615	16.615 (1.149)	120	18617			0.00- 30.00	41.03
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.178)	105	38124	0.50000	0.5000	70.00- 130.00	100.00
17.058	17.058 (1.180)	120	16721			9.91- 69.91	43.86
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.201)	146	23209	0.50000	0.5000	70.00- 130.00	100.00
17.362	17.362 (1.201)	148	16525			0.00- 30.00	71.20
17.362	17.362 (1.201)	111	9963			0.00- 30.00	42.93
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.207)	146	33478	0.50000	0.5000	70.00- 130.00	100.00(M)
17.445	17.445 (1.207)	148	20097			0.00- 30.00	60.03
17.445	17.445 (1.207)	111	11452			0.00- 30.00	34.21
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.218)	91	32172	0.50000	0.5000	70.00- 130.00	100.00
17.611	17.611 (1.218)	126	5202			0.00- 30.00	16.17
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.231)	146	25926	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene (continued)							
17.804	17.804 (1.231)	148	15194			32.10- 92.10	58.61
17.804	17.804 (1.231)	111	13973			18.96- 78.96	53.90
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.096)	105	46201	0.50000	0.5000	70.00- 130.00	100.00
15.841	15.841 (1.096)	120	12201			0.00- 30.00	26.41
15.841	15.841 (1.096)	51	7110			0.00- 30.00	15.39
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.132)	91	49370	0.50000	0.5000	70.00- 130.00	100.00
16.366	16.366 (1.132)	120	10785			0.00- 30.00	21.85
16.394	16.394 (1.134)	105	2526			0.00- 30.00	5.12
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.145)	57	69225	0.50000	0.5000	70.00- 130.00	100.00
8.293	8.293 (1.145)	56	21890			0.00- 30.00	31.62
8.293	8.293 (1.145)	41	19079			0.00- 30.00	27.56
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.703 (1.340)	83	20410	0.50000	0.5000	70.00- 130.00	100.00
9.731	9.731 (1.344)	98	10036			0.00- 30.00	49.17
9.731	9.731 (1.344)	55	19962			0.00- 30.00	97.80

QC Flag Legend

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

Report Date: 28-Nov-2007 15:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112603.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26nov.b/t14qn26a.m
Misc Info: 200ppbv --> 0.5ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 14:51
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	298719	179231	418207	298230	-0.16
88 1,4-Difluorobenze	1167702	700621	1634783	1149529	-1.56
125 Chlorobenzene-d5	849922	509953	1189891	816498	-3.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.24	0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.46	0.19

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.

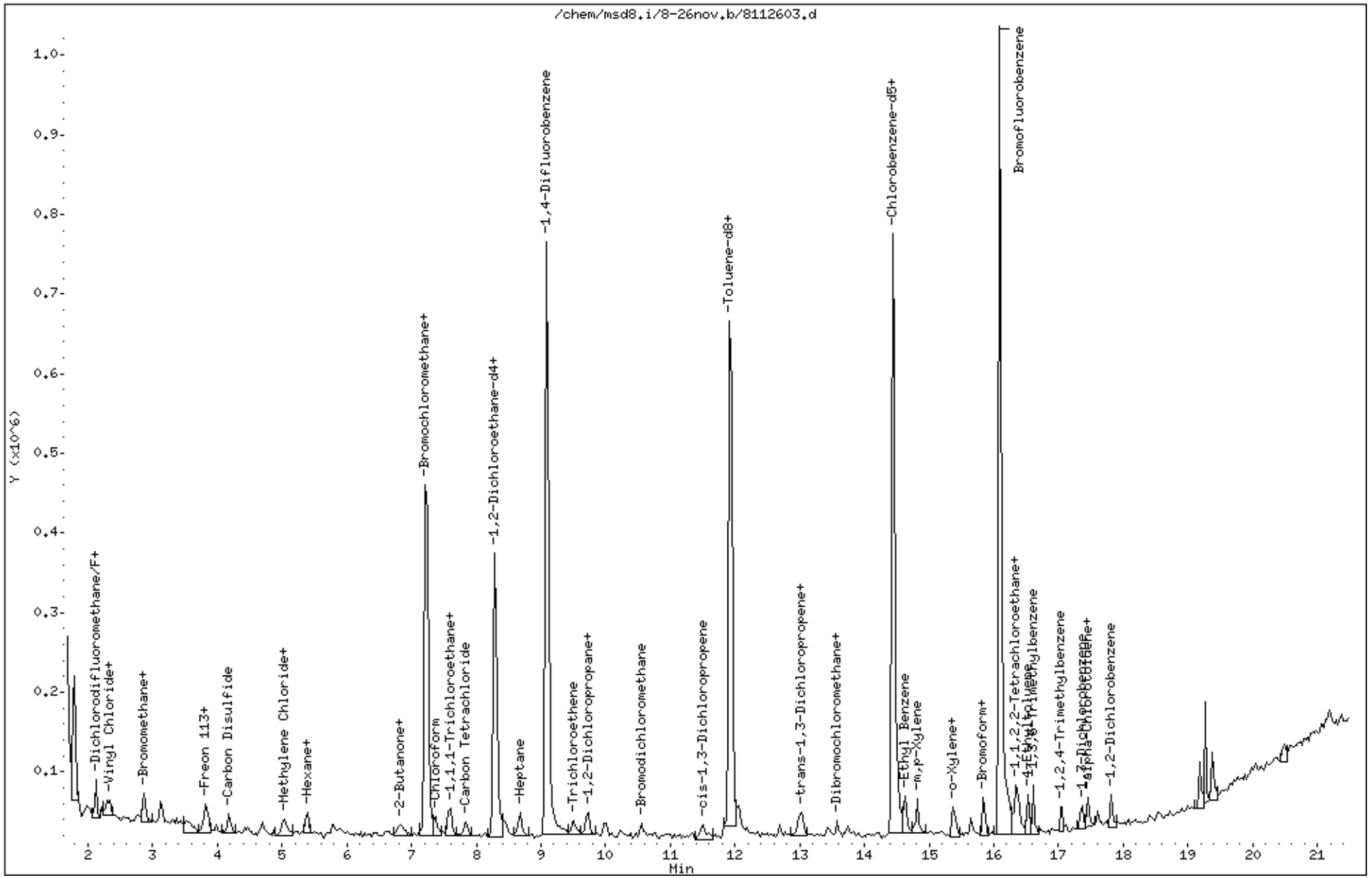
0113

Data File: /chem/msd8.i/8-26nov.b/8112603.d
Date : 26-NOV-2007 13:28
Client ID: Level 2
Sample Info: 0.5mL #1576-90

Column phase: RTx-624

Instrument: msd8.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-30nov.b/8113004.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 30-NOV-2007 11:38
Operator : cb Inst ID: msd8.i
Smp Info : 2mL #1487-405
Misc Info : 2ppbv (200ppbv) sp19b
Comment :
Method : /chem/msd8.i/8-30nov.b/t14qn26b.m
Meth Date : 30-Nov-2007 15:21 cbond Quant Type: ISTD
Cal Date : 30-NOV-2007 11:38 Cal File: 8113004.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane						CAS #: 74-97-5	
7.215	7.215 (1.000)	130	272173	25.0000		70.00- 130.00	100.00
7.215	7.215 (1.000)	128	210712			49.00- 109.00	77.42
7.215	7.215 (1.000)	49	560756			178.04- 238.04	206.03
* 88 1,4-Difluorobenzene						CAS #: 540-36-3	
9.095	9.095 (1.000)	114	1024144	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	190813			0.00- 48.42	18.63
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.431	14.431 (1.000)	117	766900	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	503190			0.00- 30.00	65.61
7 Isobutane						CAS #: 75-28-5	
2.155	2.155 (0.299)	43	126488	2.00000	2.000	70.00- 130.00	100.00
2.155	2.155 (0.299)	42	33720			0.00- 30.00	26.66
2.155	2.155 (0.299)	58	3923			0.00- 30.00	3.10
19 Pentane						CAS #: 109-66-0	
3.178	3.178 (0.440)	43	125368	2.00000	2.000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.178	3.178 (0.440)	57	16357			0.00- 30.00	13.05
3.178	3.178 (0.440)	72	10562			0.00- 30.00	8.42
25 Acrolein					CAS #: 107-02-8		
3.758	3.758 (0.521)	55	21640	2.00000	2.000	70.00- 130.00	100.00
3.758	3.758 (0.521)	56	27190			0.00- 30.00	125.65
35 Acetonitrile					CAS #: 75-05-8		
4.505	4.505 (0.624)	40	33769	2.00000	2.000	70.00- 130.00	100.00
4.533	4.533 (0.628)	41	57077			0.00- 30.00	169.02
4.533	4.533 (0.628)	38	8134			0.00- 30.00	24.09
41 Acrylonitrile					CAS #: 107-13-1		
5.141	5.141 (0.713)	53	44263	2.00000	2.000	70.00- 130.00	100.00
5.168	5.168 (0.716)	52	39890			0.00- 30.00	90.12
44 1-Pentene					CAS #: 109-67-1		
3.122	3.122 (0.433)	55	69994	2.00000	2.000	70.00- 130.00	100.00(T)
3.122	3.122 (0.433)	42	84199			0.00- 30.00	120.29
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.482	3.482 (0.483)	74	30593	2.00000	2.000	70.00- 130.00	100.00(T)
3.482	3.482 (0.483)	59	38319			0.00- 30.00	125.25
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.145	4.145 (0.575)	142	85949	2.00000	2.000	70.00- 130.00	100.00
4.145	4.145 (0.575)	127	31311			0.00- 30.00	36.43
62 1-Hexene					CAS #: 592-41-6		
5.279	5.279 (0.732)	55	42567	2.00000	2.000	70.00- 130.00	100.00
5.279	5.279 (0.732)	41	61343			0.00- 30.00	144.11
5.279	5.279 (0.732)	84	16374			0.00- 30.00	38.47
63 Methyl Acrylate					CAS #: 96-33-3		
6.993	6.993 (0.969)	55	81507	2.00000	2.000	70.00- 130.00	100.00
6.993	6.993 (0.969)	85	12093			0.00- 30.00	14.84
6.993	6.993 (0.969)	58	5039			0.00- 30.00	6.18
90 Methyl Methacrylate					CAS #: 80-62-6		
10.256	10.256 (1.128)	41	56939	2.00000	2.000	70.00- 130.00	100.00
10.284	10.284 (1.131)	69	32001			0.00- 30.00	56.20
10.284	10.284 (1.131)	100	13229			0.00- 30.00	23.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.979	9.979 (1.097)	43	103149	2.00000	2.000	70.00- 130.00	100.00
9.979	9.979 (1.097)	58	8067			0.00- 30.00	7.82
9.979	9.979 (1.097)	86	12994			0.00- 30.00	12.60
93 Ethyl Acrylate					CAS #: 140-88-5		
9.841	9.841 (1.082)	55	81196	2.00000	2.000	70.00- 130.00	100.00
9.841	9.841 (1.082)	99	4761			0.00- 30.00	5.86
9.814	9.814 (1.079)	45	8603			0.00- 30.00	10.60
96 Dibromomethane					CAS #: 74-95-3		
10.228	10.228 (1.125)	174	33424	2.00000	2.000	70.00- 130.00	100.00
10.228	10.228 (1.125)	93	37256			0.00- 30.00	111.46
10.228	10.228 (1.125)	95	33270			0.00- 30.00	99.54
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.422	16.422 (1.138)	89	10869	2.00000	2.000	70.00- 130.00	100.00
16.422	16.422 (1.138)	53	25966			0.00- 30.00	238.90
16.477	16.477 (1.142)	124	4202			0.00- 30.00	38.66
121 Alphamethylstyrene					CAS #: 98-83-9		
16.892	16.892 (1.171)	118	45409	2.00000	2.000	70.00- 130.00	100.00
16.892	16.892 (1.171)	103	25480			0.00- 30.00	56.11
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.334	17.334 (1.201)	93	65049	2.00000	2.000	70.00- 130.00	100.00
17.334	17.334 (1.201)	95	22270			0.00- 30.00	34.24
17.334	17.334 (1.201)	63	49152			0.00- 30.00	75.56
128 Nonane					CAS #: 111-84-2		
14.846	14.846 (1.029)	43	97403	2.00000	2.000	70.00- 130.00	100.00
14.846	14.846 (1.029)	57	84314			0.00- 30.00	86.56
14.846	14.846 (1.029)	85	25108			0.00- 30.00	25.78

QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 30-Nov-2007 15:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8113004.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-30nov.b/t14qn26b.m
Misc Info: 2ppbv (200ppbv) sp19b

Calibration Date: 30-NOV-2007
Calibration Time: 12:06
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	263996	158398	369594	272173	3.10
88 1,4-Difluorobenze	1026380	615828	1436932	1024144	-0.22
125 Chlorobenzene-d5	771026	462616	1079436	766900	-0.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

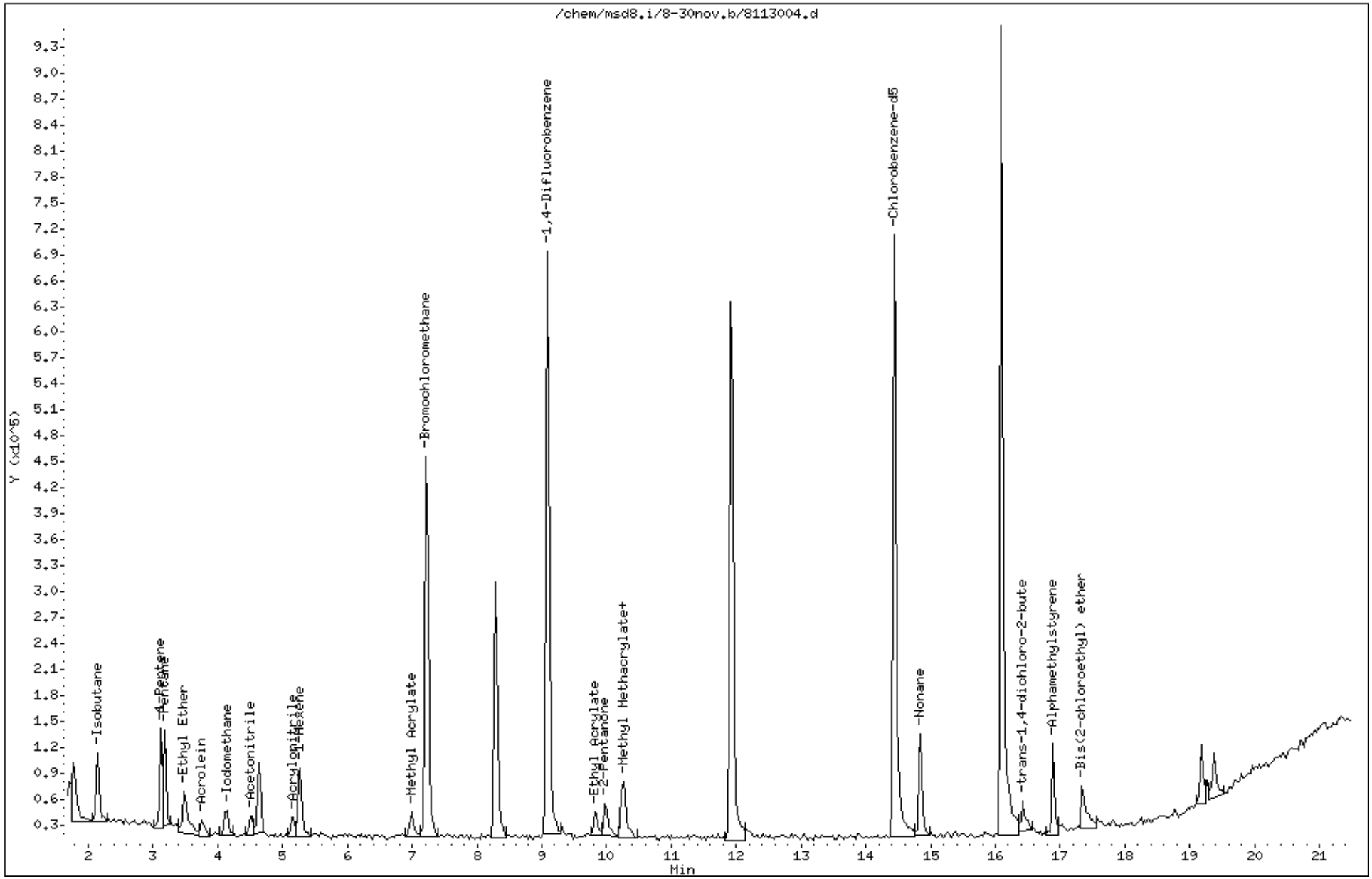
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0118

Data File: /chem/msd8.i/8-30nov.b/8113004.d
Date : 30-NOV-2007 11:38
Client ID: Level 3
Sample Info: 2mL #1487-405

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-27nov.b/8112709.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 27-NOV-2007 15:03
Operator : cb Inst ID: msd8.i
Smp Info : 2mL #1576-134
Misc Info : 200ppbv --> 2ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 16:19 ctaylor Quant Type: ISTD
Cal Date : 27-NOV-2007 15:03 Cal File: 8112709.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21a.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.215 (1.000)	130	290013	25.0000		70.00- 130.00	100.00
7.215	7.215 (1.000)	128	233221			45.23- 105.23	80.42
7.215	7.215 (1.000)	49	639183			174.89- 234.89	220.40
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1189737	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	204390			0.00- 48.49	17.18
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.459	14.459 (1.000)	117	867384	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	550575			0.00- 30.00	63.48
1 Freon 152a					CAS #: 75-37-6		
1.961	1.961 (0.272)	65	34471	2.00000	2.661	70.00- 130.00	100.00
2.016	2.016 (0.279)	51	176175			0.00- 30.00	511.08
5 Freon134a					CAS #: 811-97-2		
1.906	1.906 (0.264)	83	45683	2.00000	2.800	70.00- 130.00	100.00
1.906	1.906 (0.264)	69	195329			0.00- 30.00	427.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.122	3.122 (0.433)	67	87416	2.00000	2.793	70.00- 130.00	100.00
3.122	3.122 (0.433)	69	29768			0.00- 30.00	34.05
3.122	3.122 (0.433)	35	3322			0.00- 30.00	3.80
20 Freon123a					CAS #: 354-23-4		
3.592	3.592 (0.498)	67	72013	2.00000	2.759	70.00- 130.00	100.00
3.592	3.592 (0.498)	117	40574			0.00- 30.00	56.34
21 Freon123					CAS #: 306-83-2		
3.675	3.675 (0.509)	83	91556	2.00000	2.730	70.00- 130.00	100.00
3.675	3.675 (0.509)	133	17550			0.00- 30.00	19.17
3.675	3.675 (0.509)	85	63833			0.00- 30.00	69.72
24 Freon 13					CAS #: 75-72-9		
1.933	1.933 (0.268)	85	11999	2.00000	1.750	70.00- 130.00	100.00(aM)
1.906	1.906 (0.264)	69	195329			0.00- 30.00	1627.88
1.989	1.989 (0.276)	87	4981			0.00- 30.00	41.51
27 Freon142b					CAS #: 75-68-3		
2.182	2.182 (0.302)	65	81090	2.00000	2.519	70.00- 130.00	100.00
2.155	2.155 (0.299)	45	23728			0.00- 30.00	29.26
32 Freon143a					CAS #: 420-46-2		
1.878	1.878 (0.260)	65	22487	2.00000	2.766	70.00- 130.00	100.00
1.906	1.906 (0.264)	69	195329			0.00- 30.00	868.63
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	83536	2.00000	2.801	70.00- 130.00	100.00
4.809	4.809 (0.667)	41	25645			0.00- 30.00	30.70
4.809	4.809 (0.667)	57	9387			0.00- 30.00	11.24
49 Isopropyl ether					CAS #: 108-20-3		
5.804	5.804 (0.805)	45	213685	2.00000	2.581	70.00- 130.00	100.00
5.804	5.804 (0.805)	87	49348			0.00- 30.00	23.09
5.804	5.804 (0.805)	59	25684			0.00- 30.00	12.02
52 1-Propanol					CAS #: 71-23-8		
5.998	5.998 (0.831)	42	14796	2.00000	3.045	70.00- 130.00	100.00
5.998	5.998 (0.831)	59	12523			0.00- 30.00	84.64
5.998	5.998 (0.831)	41	9190			0.00- 30.00	62.11
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.413	6.413 (0.889)	59	77816	2.00000	1.708	70.00- 130.00	100.00(a)
6.413	6.413 (0.889)	87	30563			0.00- 30.00	39.28
6.413	6.413 (0.889)	41	16601			0.00- 30.00	21.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
61 Ethyl Acetate					CAS #: 141-78-6		
6.910	6.910 (0.958)	70	11584	2.00000	2.540	70.00- 130.00	100.00
6.910	6.910 (0.958)	43	122639			0.00- 30.00	1058.69
6.910	6.910 (0.958)	61	17358			0.00- 30.00	149.84
78 Isobutanol					CAS #: 78-83-1		
8.265	8.265 (0.909)	43	41682	2.00000	2.209	70.00- 130.00	100.00
8.265	8.265 (0.909)	41	32502			0.00- 30.00	77.98
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.459	8.459 (1.172)	73	63649	2.00000	1.824	70.00- 130.00	100.00(a)
8.459	8.459 (1.172)	87	19234			0.00- 30.00	30.22
8.459	8.459 (1.172)	55	26252			0.00- 30.00	41.24
89 1-Butanol					CAS #: 71-36-3		
9.565	9.565 (1.052)	56	25039	2.00000	1.902	70.00- 130.00	100.00(a)
9.537	9.537 (1.049)	41	23385			0.00- 30.00	93.39
9.537	9.537 (1.049)	43	17474			0.00- 30.00	69.79
113 Butyl Acetate					CAS #: 123-86-4		
13.629	13.629 (1.499)	56	40340	2.00000	2.119	70.00- 130.00	100.00
13.629	13.629 (1.499)	73	13664			0.00- 30.00	33.87
13.629	13.629 (1.499)	43	96975			0.00- 30.00	240.39
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.809	16.809 (1.163)	57	132942	2.00000	2.067	70.00- 130.00	100.00
16.809	16.809 (1.163)	85	97457			42.99- 102.99	73.31
133 2-Heptanone					CAS #: 110-43-0		
15.620	15.620 (1.080)	58	52502	2.00000	1.859	70.00- 130.00	100.00(a)
15.620	15.620 (1.080)	43	89796			0.00- 30.00	171.03
136 Cyclohexanone					CAS #: 108-94-1		
16.007	16.007 (1.107)	55	62851	2.00000	2.250	70.00- 130.00	100.00
16.007	16.007 (1.107)	98	19828			0.00- 30.00	31.55
16.007	16.007 (1.107)	42	50023			0.00- 30.00	79.59

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112709.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 200ppbv --> 2ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 10:24
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	309096	185458	432734	290013	-6.17
88 1,4-Difluorobenze	1212763	727658	1697868	1189737	-1.90
125 Chlorobenzene-d5	882030	529218	1234842	867384	-1.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.46	0.19

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.

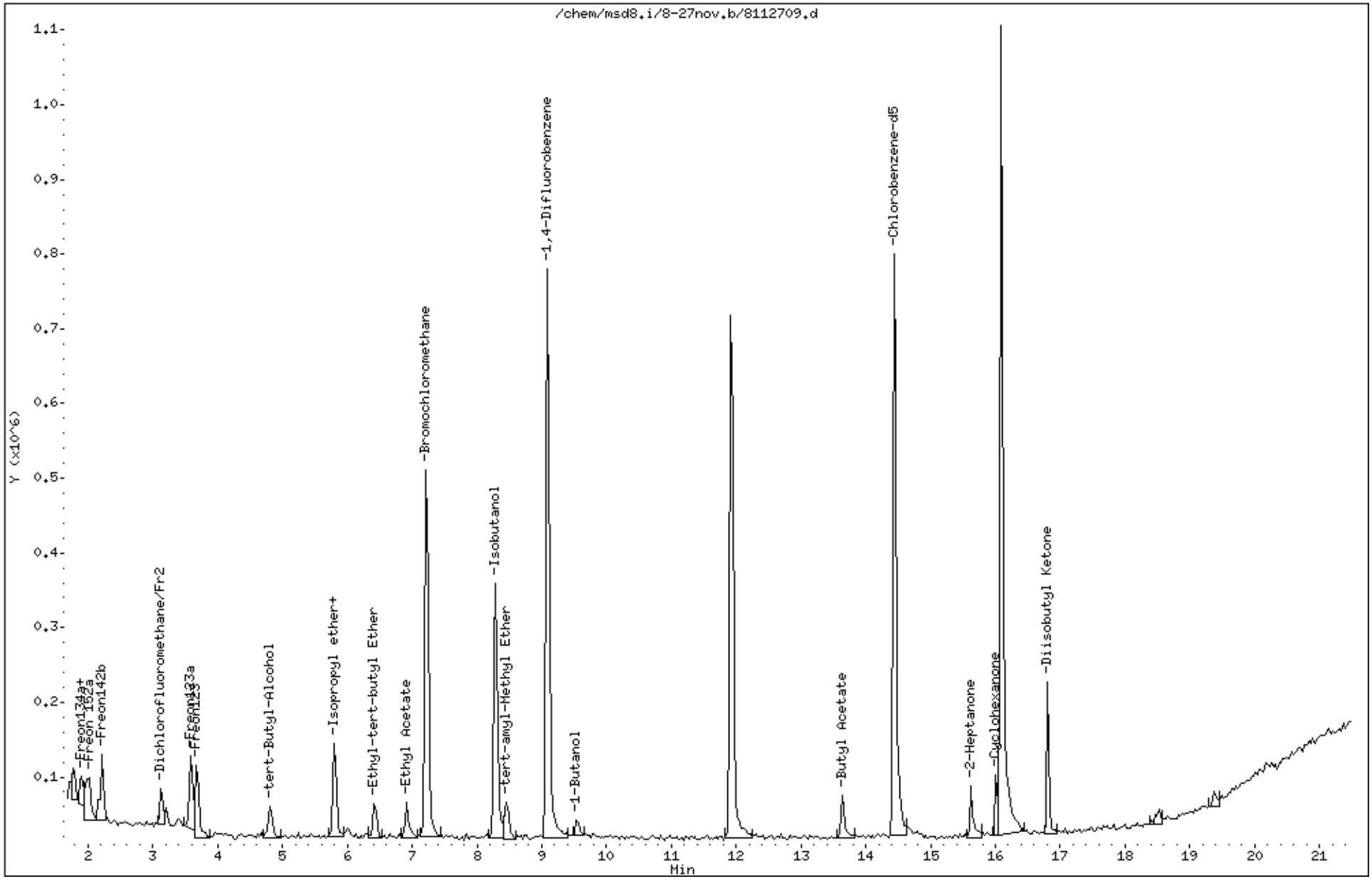
0123

Data File: /chem/msd8.i/8-27nov.b/8112709.d
Date : 27-NOV-2007 15:03
Client ID: Level 3
Sample Info: 2mL #1576-134

Column phase: RTx-624

Instrument: msd8.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-27nov.b/8112705.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 27-NOV-2007 11:33
Operator : cb Inst ID: msd8.i
Smp Info : 2mL #1443-375
Misc Info : 200ppbv --> 2ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 16:26 ctaylor Quant Type: ISTD
Cal Date : 27-NOV-2007 15:03 Cal File: 8112709.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp16a.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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane						CAS #: 74-97-5		
7.215	7.215 (1.000)	130	300325	25.0000		70.00- 130.00		100.00
7.215	7.215 (1.000)	128	231047			46.66- 106.66		76.93
7.215	7.215 (1.000)	49	632632			176.55- 236.55		210.65
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1178941	25.0000		70.00- 130.00		100.00
9.095	9.095 (1.000)	88	218606			0.00- 47.78		18.54
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	854563	25.0000		70.00- 130.00		100.00
14.431	14.431 (1.000)	82	552707			0.00- 30.00		64.68
36 Cyclopentene						CAS #: 142-29-0		
4.477	4.477 (0.621)	67	137551	2.00000	2.000	70.00- 130.00		100.00
4.477	4.477 (0.621)	68	51513			0.00- 30.00		37.45
4.477	4.477 (0.621)	53	31109			0.00- 30.00		22.62
60 2,2-Dichloropropane						CAS #: 594-20-7		
6.745	6.745 (0.935)	77	22970	2.00000	2.000	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 2,2-Dichloropropane (continued)							
6.745	6.745 (0.935)	79	8298			2.04- 62.04	36.13
6.745	6.745 (0.935)	97	5799			0.00- 30.00	25.25
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.906	7.906 (1.096)	110	29568	2.00000	2.000	70.00- 130.00	100.00
7.906	7.906 (1.096)	75	78045			0.00- 30.00	263.95
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.270	13.270 (1.459)	76	74817	2.00000	2.000	70.00- 130.00	100.00
13.270	13.270 (1.459)	41	65173			53.01- 113.01	87.11
13.270	13.270 (1.459)	78	27693			0.00- 30.00	37.01
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.625	14.625 (1.013)	131	49202	2.00000	2.000	70.00- 130.00	100.00
14.625	14.625 (1.013)	117	69911			0.00- 30.00	142.09
14.625	14.625 (1.013)	95	24495			0.00- 30.00	49.78
139 Bromobenzene					CAS #: 108-86-1		
16.256	16.256 (1.126)	156	62155	2.00000	2.000	70.00- 130.00	100.00
16.256	16.256 (1.126)	77	124094			191.97- 251.97	199.65
16.256	16.256 (1.126)	158	62019			0.00- 30.00	99.78
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.394	16.394 (1.136)	110	31000	2.00000	2.000	70.00- 130.00	100.00
16.367	16.367 (1.134)	61	25995			0.00- 30.00	83.85
16.394	16.394 (1.136)	112	20863			0.00- 30.00	67.30
143 2-Chlorotoluene					CAS #: 95-49-8		
16.505	16.505 (1.144)	126	50642	2.00000	2.000	70.00- 130.00	100.00
16.477	16.477 (1.142)	91	161424			314.53- 374.53	318.76
16.477	16.477 (1.142)	65	17754			0.00- 30.00	35.06
146 4-Chlorotoluene					CAS #: 106-43-4		
16.643	16.643 (1.153)	126	59292	2.00000	2.000	70.00- 130.00	100.00
16.643	16.643 (1.153)	91	185577			312.04- 372.04	312.99
16.643	16.643 (1.153)	63	28064			0.00- 30.00	47.33
150 tert-Butylbenzene					CAS #: 98-06-6		
16.975	16.975 (1.176)	119	223976	2.00000	2.000	70.00- 130.00	100.00
16.975	16.975 (1.176)	134	46903			0.00- 53.52	20.94
16.975	16.975 (1.176)	91	140645			0.00- 30.00	62.79
151 Pentachloroethane					CAS #: 76-01-7		
17.030	17.030 (1.180)	167	40448	2.00000	2.000	70.00- 130.00	100.00
17.030	17.030 (1.180)	117	44764			0.00- 30.00	110.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
152 sec-Butylbenzene					CAS #: 135-98-8		
17.224	17.224 (1.194)	105	280935	2.00000	2.000	70.00- 130.00	100.00
17.224	17.224 (1.194)	134	53224			0.00- 48.96	18.95
17.224	17.224 (1.194)	91	43905			0.00- 30.00	15.63
154 p-Cymene					CAS #: 99-87-6		
17.362	17.362 (1.203)	134	52386	2.00000	2.000	70.00- 130.00	100.00
17.362	17.362 (1.203)	119	189990			378.75- 438.75	362.67
17.362	17.362 (1.203)	91	55329			0.00- 30.00	105.62
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.473	17.473 (1.211)	120	67818	2.00000	2.000	70.00- 130.00	100.00
17.473	17.473 (1.211)	105	190078			241.34- 301.34	280.28
17.473	17.473 (1.211)	77	24298			0.00- 30.00	35.83
159 Butylbenzene					CAS #: 104-51-8		
17.777	17.777 (1.232)	134	58624	2.00000	2.000	70.00- 130.00	100.00
17.777	17.777 (1.232)	91	238618			353.25- 413.25	407.03
17.777	17.777 (1.232)	92	126113			0.00- 30.00	215.12
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.523	18.523 (1.284)	157	54974	2.00000	2.000	70.00- 130.00	100.00
18.523	18.523 (1.284)	75	82691			110.05- 170.05	150.42
18.523	18.523 (1.284)	155	42228			0.00- 30.00	76.81

Report Date: 28-Nov-2007 16:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112705.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 200ppbv --> 2ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 12:01
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	299018	179411	418625	300325	0.44
88 1,4-Difluorobenze	1170549	702329	1638769	1178941	0.72
125 Chlorobenzene-d5	849625	509775	1189475	854563	0.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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/msd8.i/8-27nov.b/8112705.d

Date : 27-NOV-2007 11:33

Client ID: Level 3

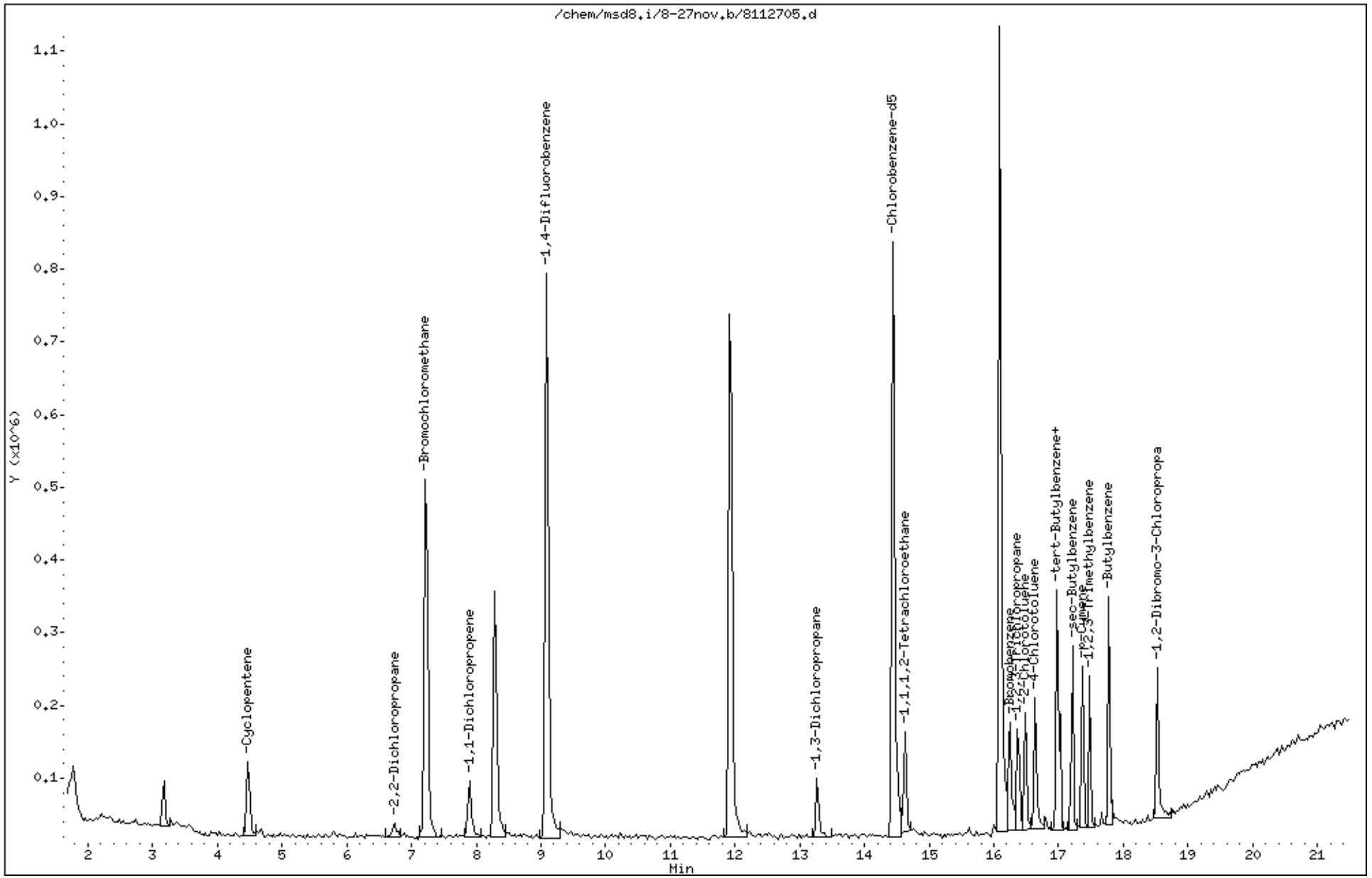
Sample Info: 2mL #1443-375

Column phase: RTx-624

Instrument: msd8.i

Operator: cb

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26nov.b/8112604.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 26-NOV-2007 13:56
Operator : cb Inst ID: msd8.i
Smp Info : 2mL #1576-90
Misc Info : 200ppbv --> 2ppbv
Comment :
Method : /chem/msd8.i/8-26nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 15:47 ctaylor Quant Type: ISTD
Cal Date : 26-NOV-2007 13:56 Cal File: 8112604.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.242	7.242 (1.000)	130	291590	25.0000		70.00- 130.00	100.00
7.242	7.242 (1.000)	128	232122			49.96- 109.96	79.61
7.214	7.214 (1.000)	49	607822			170.41- 230.41	208.45
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1107744	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	198306			0.00- 47.71	17.90
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	831698	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	531553			0.00- 30.00	63.91
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.145)	65	458997	25.0000	25.163	70.00- 130.00	100.00
8.293	8.293 (1.145)	67	226810			0.00- 30.00	49.41
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1007023	25.0000	25.485	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	119143			0.00- 30.00	11.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	660572			0.00- 30.00	65.60
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	445309	25.0000	25.132	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	694309			135.23- 195.23	155.92
16.090	16.090 (1.115)	176	411364			65.72- 125.72	92.38
3 Propylene					CAS #: 115-07-1		
1.961	1.961 (0.271)	41	47049	2.00000	2.000	70.00- 130.00	100.00
1.961	1.961 (0.271)	42	28889			0.00- 30.00	61.40
1.961	1.961 (0.271)	39	34741			0.00- 30.00	73.84
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.275)	85	116456	2.00000	2.093	70.00- 130.00	100.00
1.989	1.989 (0.275)	87	35341			0.00- 30.00	30.35
6 Freon 114					CAS #: 76-14-2		
2.127	2.127 (0.294)	135	80911	2.00000	1.766	70.00- 130.00	100.00
2.127	2.127 (0.294)	137	27117			0.48- 60.48	33.51
8 Chloromethane					CAS #: 74-87-3		
2.237	2.237 (0.309)	50	56852	2.00000	2.000	70.00- 130.00	100.00(M)
2.265	2.265 (0.313)	52	30467			0.00- 30.00	53.59
9 Butane					CAS #: 106-97-8		
2.293	2.293 (0.317)	58	14501	2.00000	2.000	70.00- 130.00	100.00
2.293	2.293 (0.317)	43	106895			0.00- 30.00	737.16
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.348 (0.324)	62	58423	2.00000	1.909	70.00- 130.00	100.00
2.348	2.348 (0.324)	64	19290			0.00- 30.00	33.02
10 1,3-Butadiene					CAS #: 106-99-0		
2.348	2.348 (0.324)	54	52875	2.00000	1.927	70.00- 130.00	100.00
2.320	2.320 (0.320)	39	58439			0.00- 30.00	110.52
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.381)	94	35062	2.00000	1.999	70.00- 130.00	100.00
2.763	2.763 (0.381)	96	38194			63.81- 123.81	108.93
16 Chloroethane					CAS #: 75-00-3		
2.873	2.873 (0.397)	64	20318	2.00000	1.759	70.00- 130.00	100.00
2.873	2.873 (0.397)	49	7347			0.00- 30.00	36.16
2.873	2.873 (0.397)	66	5746			0.00- 30.00	28.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.873	2.873 (0.397)	43	86961	2.00000	2.000	70.00- 130.00	100.00
2.873	2.873 (0.397)	57	54091			0.00- 30.00	62.20
2.873	2.873 (0.397)	72	6254			0.00- 30.00	7.19
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.431)	101	109202	2.00000	1.786	70.00- 130.00	100.00
3.122	3.122 (0.431)	103	69555			35.69- 95.69	63.69
23 Ethanol					CAS #: 64-17-5		
3.399	3.399 (0.469)	45	24697	2.00000	2.000	70.00- 130.00	100.00
3.399	3.399 (0.469)	43	7200			0.00- 30.00	29.15
3.399	3.399 (0.469)	46	9262			0.00- 30.00	37.50
28 Freon 113					CAS #: 76-13-1		
3.813	3.813 (0.527)	151	62619	2.00000	1.834	70.00- 130.00	100.00
3.813	3.813 (0.527)	153	41071			33.61- 93.61	65.59
3.813	3.813 (0.527)	101	92910			114.18- 174.18	148.37
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.530)	61	81253	2.00000	2.015	70.00- 130.00	100.00
3.841	3.841 (0.530)	96	50700			27.60- 87.60	62.40
3.841	3.841 (0.530)	98	28139			6.05- 66.05	34.63
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.549)	58	29019	2.00000	2.000	70.00- 130.00	100.00
3.979	3.979 (0.549)	43	84177			0.00- 30.00	290.08
33 Carbon Disulfide					CAS #: 75-15-0		
4.173	4.173 (0.576)	76	140940	2.00000	1.953	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.576)	45	85567	2.00000	2.000	70.00- 130.00	100.00
4.173	4.173 (0.576)	43	27121			0.00- 30.00	31.70
4.173	4.173 (0.576)	59	4338			0.00- 30.00	5.07
37 3-Chloropropene					CAS #: 107-05-1		
4.449	4.449 (0.614)	76	16847	2.00000	2.000	70.00- 130.00	100.00
4.422	4.422 (0.611)	41	54088			0.00- 30.00	321.05
40 Methylene Chloride					CAS #: 75-09-2		
4.698	4.698 (0.649)	49	66486	2.00000	1.857	70.00- 130.00	100.00
4.698	4.698 (0.649)	84	42817			32.58- 92.58	64.40
4.698	4.698 (0.649)	51	24698			0.00- 30.00	37.15
43 MTBE					CAS #: 1634-04-4		
5.002	5.002 (0.691)	73	47337	2.00000	1.838	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
43 MTBE (continued)							
5.002	5.002 (0.691)	57	16080			0.00- 58.28	33.97
5.002	5.002 (0.691)	41	11790			0.00- 30.00	24.91
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.058	5.058 (0.698)	96	50722	2.00000	1.935	70.00- 130.00	100.00
5.030	5.030 (0.695)	61	78926			131.28- 191.28	155.61
5.058	5.058 (0.698)	98	31666			0.00- 30.00	62.43
46 Hexane					CAS #: 110-54-3		
5.389	5.389 (0.744)	57	91947	2.00000	1.993	70.00- 130.00	100.00
5.389	5.389 (0.744)	43	63023			0.00- 30.00	68.54
5.389	5.389 (0.744)	86	15313			0.00- 30.00	16.65
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.804	5.804 (0.801)	63	84650	2.00000	1.969	70.00- 130.00	100.00
5.804	5.804 (0.801)	65	32521			0.46- 60.46	38.42
55 Vinyl Acetate					CAS #: 108-05-4		
5.887	5.887 (0.813)	86	7332	2.00000	2.000	70.00- 130.00	100.00
5.860	5.860 (0.809)	43	87341			0.00- 30.00	1191.23
5.860	5.860 (0.809)	42	9573			0.00- 30.00	130.56
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.939)	61	69374	2.00000	1.874	70.00- 130.00	100.00
6.800	6.800 (0.939)	96	41279			38.44- 98.44	59.50
6.800	6.800 (0.939)	98	25553			14.66- 74.66	36.83
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.947)	72	22023	2.00000	2.043	70.00- 130.00	100.00
6.855	6.855 (0.947)	43	98189			489.89- 549.89	445.85
6.855	6.855 (0.947)	57	6753			0.00- 30.00	30.66
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (0.996)	42	62586	2.00000	1.628	70.00- 130.00	100.00
7.242	7.242 (1.000)	71	19921			0.56- 60.56	31.83
7.242	7.242 (1.000)	72	19778			0.00- 30.00	31.60
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.015)	83	82594	2.00000	1.908	70.00- 130.00	100.00
7.353	7.353 (1.015)	85	56059			35.21- 95.21	67.87
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.046)	84	66980	2.00000	1.951	70.00- 130.00	100.00
7.574	7.574 (1.046)	56	85937			103.12- 163.12	128.30
7.574	7.574 (1.046)	41	45192			44.68- 104.68	67.47

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		
7.601	7.601 (1.050)	97	69103	2.00000	1.875	70.00- 130.00	100.00
7.601	7.601 (1.050)	99	49977			34.90- 94.90	72.32
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.850	7.850 (1.084)	119	59300	2.00000	2.055	70.00- 130.00	100.00
7.823	7.823 (1.080)	117	60055			73.18- 133.18	101.27
81 Benzene					CAS #: 71-43-2		
8.265	8.265 (0.909)	78	129893	2.00000	1.927	70.00- 130.00	100.00
8.265	8.265 (0.909)	77	26636			0.00- 30.00	20.51
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.145)	57	257159	2.00000	1.948	70.00- 130.00	100.00
8.293	8.293 (1.145)	56	79887			0.00- 30.00	31.07
8.293	8.293 (1.145)	41	68213			0.00- 30.00	26.53
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	61046	2.00000	1.798	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	17693			0.00- 30.00	28.98
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	14430	2.00000	1.998	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	93311			0.00- 30.00	646.65
8.680	8.680 (0.954)	71	42048			0.00- 30.00	291.39
94 Trichloroethene					CAS #: 79-01-6		
9.509	9.509 (1.046)	95	51294	2.00000	1.949	70.00- 130.00	100.00
9.509	9.509 (1.046)	130	46431			62.02- 122.02	90.52
9.509	9.509 (1.046)	97	31983			33.03- 93.03	62.35
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.730	9.730 (1.344)	83	72256	2.00000	1.900	70.00- 130.00	100.00
9.730	9.730 (1.344)	98	32781			0.00- 30.00	45.37
9.730	9.730 (1.344)	55	72599			0.00- 30.00	100.47
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	45368	2.00000	1.772	70.00- 130.00	100.00
10.007	10.007 (1.100)	62	33946			37.83- 97.83	74.82
10.007	10.007 (1.100)	41	38225			32.95- 92.95	84.26
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	23495	2.00000	2.000	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	19801			49.70- 109.70	84.28
10.228	10.228 (1.125)	57	6038			0.00- 30.00	25.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	70807	2.00000	1.862	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	50013			33.18- 93.18	70.63
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	57092	2.00000	2.046	70.00- 130.00	100.00
11.500	11.500 (1.264)	77	20251			1.32- 61.32	35.47
11.500	11.500 (1.264)	39	33370			35.06- 95.06	58.45
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.859	11.859 (1.304)	58	29725	2.00000	1.930	70.00- 130.00	100.00(M)
11.859	11.859 (1.304)	43	100670			0.00- 30.00	338.67
11.859	11.859 (1.304)	85	11438			0.00- 30.00	38.48
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	117817	2.00000	1.943	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	65844			28.31- 88.31	55.89
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	51756	2.00000	1.856	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	15261			0.46- 60.46	29.49
12.689	12.689 (0.879)	39	36543			30.65- 90.65	70.61
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	39451	2.00000	2.037	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	24705			31.04- 91.04	62.62
12.993	12.993 (0.900)	83	36748			60.00- 120.00	93.15
112 Tetrachloroethene					CAS #: 127-18-4		
13.048	13.048 (0.904)	166	48885	2.00000	1.972	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	42649			52.58- 112.58	87.24
13.021	13.021 (0.902)	131	37564			48.92- 108.92	76.84
114 2-Hexanone					CAS #: 591-78-6		
13.435	13.435 (0.931)	58	34907	2.00000	2.000	70.00- 130.00	100.00
13.435	13.435 (0.931)	43	83004			173.64- 233.64	237.79
13.435	13.435 (0.931)	100	6788			0.00- 30.00	19.45
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	51840	2.00000	1.815	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	42715			0.00- 30.00	82.40
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	59450	2.00000	1.826	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	60896			63.89- 123.89	102.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	93635	2.00000	1.886	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	30168			1.43- 61.43	32.22
14.486	14.486 (1.004)	77	69897			35.27- 95.27	74.65
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.013)	106	51614	2.00000	1.917	70.00- 130.00	100.00
14.624	14.624 (1.013)	91	161206			0.00- 30.00	312.33
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	62245	2.00000	1.860	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	138767			0.00- 30.00	222.94
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	57320	2.00000	1.909	70.00- 130.00	100.00
15.371	15.371 (1.065)	91	118786			182.92- 242.92	207.23
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	78726	2.00000	1.803	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	51892			23.11- 83.11	65.91
135 Bromoform					CAS #: 75-25-2		
15.647	15.647 (1.084)	173	43618	2.00000	1.938	70.00- 130.00	100.00
15.647	15.647 (1.084)	171	23161			20.18- 80.18	53.10
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	176101	2.00000	1.933	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	44182			0.00- 30.00	25.09
15.841	15.841 (1.098)	51	22915			0.00- 30.00	13.01
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	94657	2.00000	1.998	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	59654			34.57- 94.57	63.02
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	212322	2.00000	2.054	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	40584			0.00- 30.00	19.11
16.366	16.366 (1.134)	105	7324			0.00- 30.00	3.45
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	159441	2.00000	1.942	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	45824			0.00- 56.93	28.74
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	185461	2.00000	2.003	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	77126			0.00- 30.00	41.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.058	17.058 (1.182)	105	133212	2.00000	1.847	70.00- 130.00	100.00
17.058	17.058 (1.182)	120	59669			9.91- 69.91	44.79
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	90669	2.00000	1.958	70.00- 130.00	100.00
17.362	17.362 (1.203)	148	54892			0.00- 30.00	60.54
17.362	17.362 (1.203)	111	40857			0.00- 30.00	45.06
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	119234	2.00000	1.866	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	76800			0.00- 30.00	64.41
17.445	17.445 (1.209)	111	46340			0.00- 30.00	38.86
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	114064	2.00000	1.861	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	15471			0.00- 30.00	13.56
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	96505	2.00000	1.910	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	62859			32.10- 92.10	65.14
17.804	17.804 (1.234)	111	50189			18.96- 78.96	52.01
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	128439	2.00000	2.000	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	127568			64.98- 124.98	99.32
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	82691	2.00000	2.000	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	48106			33.70- 93.70	58.18
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	282762	2.00000	2.000	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	34543			0.00- 30.00	12.22

QC Flag Legend

M - Compound response manually integrated.

Report Date: 28-Nov-2007 15:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112604.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26nov.b/t14qn26a.m
Misc Info: 200ppbv --> 2ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 14:51
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	298719	179231	418207	291590	-2.39
88 1,4-Difluorobenze	1167702	700621	1634783	1107744	-5.13
125 Chlorobenzene-d5	849922	509953	1189891	831698	-2.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.24	0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

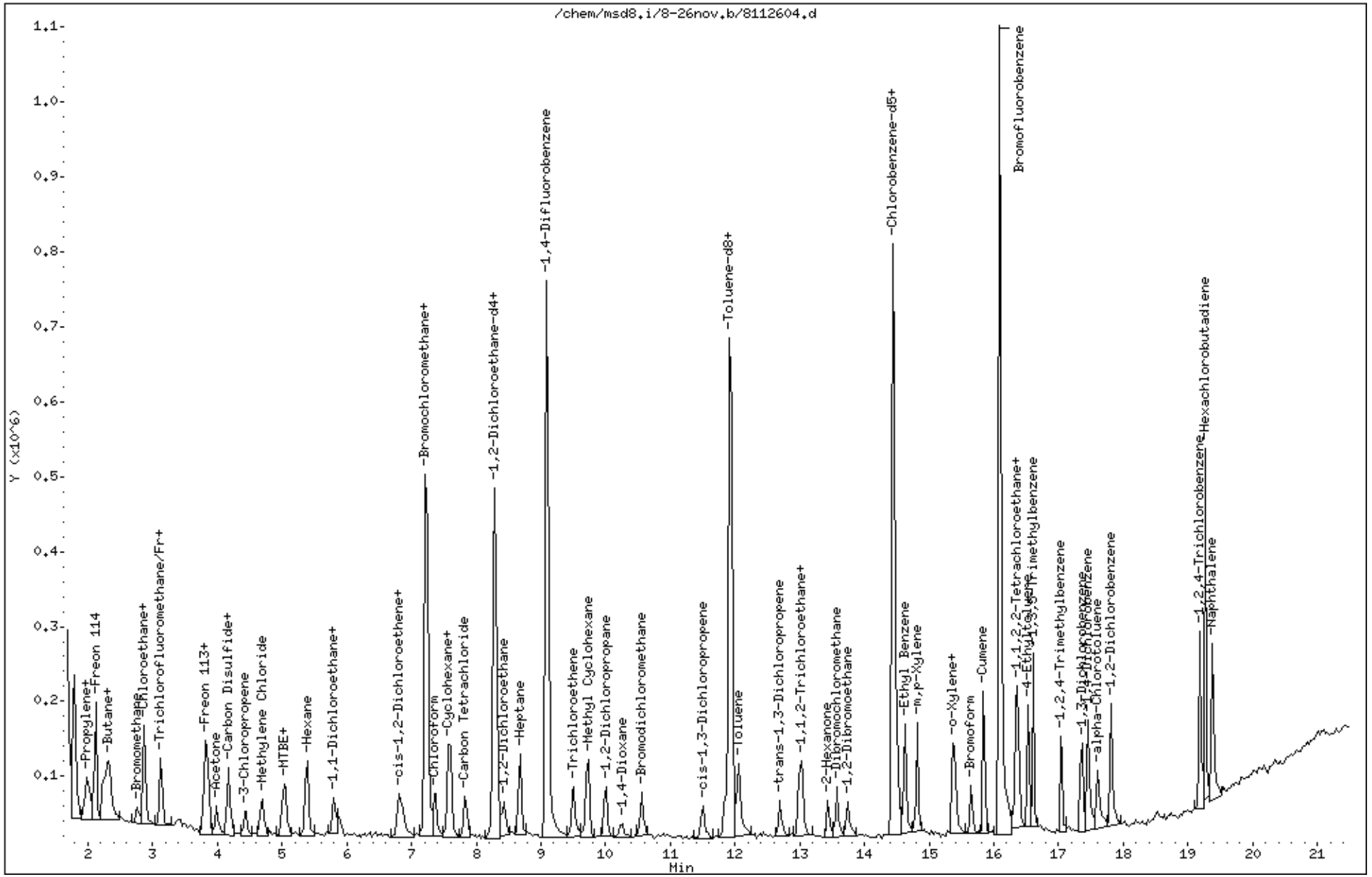
0138

Data File: /chem/msd8.i/8-26nov.b/8112604.d
Date : 26-NOV-2007 13:56
Client ID: Level 3
Sample Info: 2mL #1576-90

Instrument: msd8.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26nov.b/8112605.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 26-NOV-2007 14:23
Operator : cb Inst ID: msd8.i
Smp Info : 25mL #1576-90
Misc Info : 200ppbv --> 25ppbv
Comment :
Method : /chem/msd8.i/8-26nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 15:47 ctaylor Quant Type: ISTD
Cal Date : 26-NOV-2007 14:23 Cal File: 8112605.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	302759	25.0000		70.00- 130.00	100.00
7.214	7.214 (1.000)	128	240724			49.96- 109.96	79.51
7.214	7.214 (1.000)	49	604760			170.41- 230.41	199.75
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1157079	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	204887			0.00- 47.71	17.71
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	823137	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	541731			0.00- 30.00	65.81
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	462253	25.0000	24.601	70.00- 130.00	100.00
8.293	8.293 (1.149)	67	253635			0.00- 30.00	54.87
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1059868	25.0000	25.448	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	116264			0.00- 30.00	10.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	800698			0.00- 30.00	75.55
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	467965	25.0000	26.099	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	739464			135.23- 195.23	158.02
16.090	16.090 (1.115)	176	451322			65.72- 125.72	96.44
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	452596	25.0000	21.284	70.00- 130.00	100.00
1.933	1.933 (0.268)	42	306455			0.00- 30.00	67.71
1.933	1.933 (0.268)	39	310935			0.00- 30.00	68.70
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	1102509	25.0000	20.716	70.00- 130.00	100.00
1.989	1.989 (0.276)	87	345669			0.00- 30.00	31.35
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.287)	135	817820	25.0000	19.187	70.00- 130.00	100.00
2.072	2.072 (0.287)	137	250887			0.48- 60.48	30.68
8 Chloromethane					CAS #: 74-87-3		
2.210	2.210 (0.306)	50	561489	25.0000	21.606	70.00- 130.00	100.00
2.182	2.182 (0.302)	52	161365			0.00- 30.00	28.74
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	122741	25.0000	19.737	70.00- 130.00	100.00
2.265	2.265 (0.314)	43	944853			0.00- 30.00	769.79
11 Vinyl Chloride					CAS #: 75-01-4		
2.320	2.320 (0.322)	62	592219	25.0000	20.366	70.00- 130.00	100.00
2.320	2.320 (0.322)	64	154758			0.00- 30.00	26.13
10 1,3-Butadiene					CAS #: 106-99-0		
2.320	2.320 (0.322)	54	496845	25.0000	19.398	70.00- 130.00	100.00
2.320	2.320 (0.322)	39	536792			0.00- 30.00	108.04
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	414909	25.0000	23.476	70.00- 130.00	100.00
2.763	2.763 (0.383)	96	396872			63.81- 123.81	95.65
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.394)	64	302377	25.0000	25.139	70.00- 130.00	100.00
2.846	2.846 (0.394)	49	84907			0.00- 30.00	28.08
2.846	2.846 (0.394)	66	96834			0.00- 30.00	32.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	810741	25.0000	20.902	70.00- 130.00	100.00
2.846	2.846 (0.394)	57	523253			0.00- 30.00	64.54
2.846	2.846 (0.394)	72	53881			0.00- 30.00	6.65
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.429)	101	1098058	25.0000	19.280	70.00- 130.00	100.00
3.095	3.095 (0.429)	103	693462			35.69- 95.69	63.15
23 Ethanol					CAS #: 64-17-5		
3.399	3.399 (0.471)	45	227678	25.0000	20.765	70.00- 130.00	100.00
3.399	3.399 (0.471)	43	40620			0.00- 30.00	17.84
3.399	3.399 (0.471)	46	90033			0.00- 30.00	39.54
28 Freon 113					CAS #: 76-13-1		
3.813	3.813 (0.529)	151	629875	25.0000	19.663	70.00- 130.00	100.00
3.813	3.813 (0.529)	153	393927			33.61- 93.61	62.54
3.813	3.813 (0.529)	101	893117			114.18- 174.18	141.79
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	751784	25.0000	19.820	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	419428			27.60- 87.60	55.79
3.841	3.841 (0.532)	98	286018			6.05- 66.05	38.05
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	285605	25.0000	21.564	70.00- 130.00	100.00
3.979	3.979 (0.552)	43	859824			0.00- 30.00	301.05
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	1449524	25.0000	20.920	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.145	4.145 (0.575)	45	1006134	25.0000	23.767	70.00- 130.00	100.00
4.173	4.173 (0.578)	43	213280			0.00- 30.00	21.20
4.173	4.173 (0.578)	59	39479			0.00- 30.00	3.92
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	242761	25.0000	26.306	70.00- 130.00	100.00
4.422	4.422 (0.613)	41	784934			0.00- 30.00	323.34
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	655094	25.0000	19.546	70.00- 130.00	100.00
4.671	4.671 (0.647)	84	420929			32.58- 92.58	64.25
4.671	4.671 (0.647)	51	185808			0.00- 30.00	28.36
43 MTBE					CAS #: 1634-04-4		
5.002	5.002 (0.693)	73	979127	25.0000	31.700	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
43 MTBE (continued)							
5.002	5.002 (0.693)	57	273633			0.00- 58.28	27.95
5.002	5.002 (0.693)	41	291672			0.00- 30.00	29.79
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	495394	25.0000	20.018	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	786045			131.28- 191.28	158.67
5.030	5.030 (0.697)	98	311893			0.00- 30.00	62.96
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	937044	25.0000	21.091	70.00- 130.00	100.00
5.390	5.390 (0.747)	43	619951			0.00- 30.00	66.16
5.390	5.390 (0.747)	86	133534			0.00- 30.00	14.25
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	932494	25.0000	22.100	70.00- 130.00	100.00
5.777	5.777 (0.801)	65	283270			0.46- 60.46	30.38
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	107853	25.0000	26.563	70.00- 130.00	100.00
5.860	5.860 (0.812)	43	1263519			0.00- 30.00	1171.52
5.860	5.860 (0.812)	42	98951			0.00- 30.00	91.75
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	630551	25.0000	18.525	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	438243			38.44- 98.44	69.50
6.800	6.800 (0.942)	98	269473			14.66- 74.66	42.74
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	206668	25.0000	20.229	70.00- 130.00	100.00
6.855	6.855 (0.950)	43	1096621			489.89- 549.89	530.62
6.855	6.855 (0.950)	57	75939			0.00- 30.00	36.74
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (1.000)	42	639214	25.0000	18.197	70.00- 130.00	100.00
7.214	7.214 (1.000)	71	196545			0.56- 60.56	30.75
7.214	7.214 (1.000)	72	199725			0.00- 30.00	31.25
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	816508	25.0000	19.987	70.00- 130.00	100.00
7.353	7.353 (1.019)	85	534576			35.21- 95.21	65.47
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	648376	25.0000	20.004	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	867094			103.12- 163.12	133.73
7.574	7.574 (1.050)	41	477218			44.68- 104.68	73.60

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		
7.601	7.601 (1.054)	97	794128	25.0000	22.001	70.00- 130.00	100.00
7.601	7.601 (1.054)	99	505576			34.90- 94.90	63.66
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	634386	25.0000	22.313	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	651557			73.18- 133.18	102.71
81 Benzene					CAS #: 71-43-2		
8.237	8.237 (0.906)	78	1329228	25.0000	20.554	70.00- 130.00	100.00
8.237	8.237 (0.906)	77	302697			0.00- 30.00	22.77
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	2593680	25.0000	20.595	70.00- 130.00	100.00
8.293	8.293 (1.149)	56	826510			0.00- 30.00	31.87
8.293	8.293 (1.149)	41	671021			0.00- 30.00	25.87
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	584648	25.0000	18.598	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	188118			0.00- 30.00	32.18
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	146383	25.0000	20.971	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	928862			0.00- 30.00	634.54
8.680	8.680 (0.954)	71	453405			0.00- 30.00	309.74
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	485438	25.0000	19.576	70.00- 130.00	100.00
9.509	9.509 (1.046)	130	464453			62.02- 122.02	95.68
9.482	9.482 (1.043)	97	322816			33.03- 93.03	66.50
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.730	9.730 (1.349)	83	770394	25.0000	21.055	70.00- 130.00	100.00
9.730	9.730 (1.349)	98	346039			0.00- 30.00	44.92
9.703	9.703 (1.345)	55	731079			0.00- 30.00	94.90
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	464336	25.0000	19.328	70.00- 130.00	100.00
10.007	10.007 (1.100)	62	318824			37.83- 97.83	68.66
10.007	10.007 (1.100)	41	300516			32.95- 92.95	64.72
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	268315	25.0000	23.328	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	221639			49.70- 109.70	82.60
10.228	10.228 (1.125)	57	73148			0.00- 30.00	27.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	769809	25.0000	20.949	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	497653			33.18- 93.18	64.65
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	579752	25.0000	21.342	70.00- 130.00	100.00
11.500	11.500 (1.264)	77	181272			1.32- 61.32	31.27
11.500	11.500 (1.264)	39	358566			35.06- 95.06	61.85
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	361857	25.0000	23.272	70.00- 130.00	100.00
11.832	11.832 (1.301)	43	977072			0.00- 30.00	270.02
11.859	11.859 (1.304)	85	141665			0.00- 30.00	39.15
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	1200951	25.0000	20.622	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	693576			28.31- 88.31	57.75
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	581879	25.0000	22.242	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	183817			0.46- 60.46	31.59
12.689	12.689 (0.879)	39	343504			30.65- 90.65	59.03
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	403060	25.0000	22.206	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	244340			31.04- 91.04	60.62
12.993	12.993 (0.900)	83	374431			60.00- 120.00	92.90
112 Tetrachloroethene					CAS #: 127-18-4		
13.048	13.048 (0.904)	166	463118	25.0000	20.554	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	375750			52.58- 112.58	81.13
13.021	13.021 (0.902)	131	345969			48.92- 108.92	74.70
114 2-Hexanone					CAS #: 591-78-6		
13.435	13.435 (0.931)	58	452730	25.0000	25.590	70.00- 130.00	100.00
13.435	13.435 (0.931)	43	924494			173.64- 233.64	204.20
13.435	13.435 (0.931)	100	84111			0.00- 30.00	18.58
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	592140	25.0000	22.142	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	457482			0.00- 30.00	77.26
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	661722	25.0000	21.836	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	594679			63.89- 123.89	89.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	945863	25.0000	20.848	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	289882			1.43- 61.43	30.65
14.486	14.486 (1.004)	77	603146			35.27- 95.27	63.77
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.013)	106	534166	25.0000	21.467	70.00- 130.00	100.00
14.624	14.624 (1.013)	91	1676605			0.00- 30.00	313.87
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	674199	25.0000	21.699	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	1315208			0.00- 30.00	195.08
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	605427	25.0000	21.716	70.00- 130.00	100.00
15.371	15.371 (1.065)	91	1283856			182.92- 242.92	212.06
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	1036291	25.0000	24.309	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	578577			23.11- 83.11	55.83
135 Bromoform					CAS #: 75-25-2		
15.647	15.647 (1.084)	173	534966	25.0000	24.340	70.00- 130.00	100.00
15.647	15.647 (1.084)	171	278871			20.18- 80.18	52.13
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	1963135	25.0000	22.754	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	471399			0.00- 30.00	24.01
15.841	15.841 (1.098)	51	247629			0.00- 30.00	12.61
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	976908	25.0000	22.063	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	636130			34.57- 94.57	65.12
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	2325368	25.0000	23.439	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	485307			0.00- 30.00	20.87
16.366	16.366 (1.134)	105	82976			0.00- 30.00	3.57
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	1866801	25.0000	23.613	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	497859			0.00- 56.93	26.67
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	1841966	25.0000	21.506	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	830047			0.00- 30.00	45.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	1556857	25.0000	22.776	70.00- 130.00	100.00
17.030	17.030 (1.180)	120	636780			9.91- 69.91	40.90
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	874438	25.0000	20.715	70.00- 130.00	100.00
17.362	17.362 (1.203)	148	541016			0.00- 30.00	61.87
17.334	17.334 (1.201)	111	394399			0.00- 30.00	45.10
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	1137991	25.0000	19.846	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	708795			0.00- 30.00	62.28
17.445	17.445 (1.209)	111	497913			0.00- 30.00	43.75
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	1362991	25.0000	23.255	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	268939			0.00- 30.00	19.73
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	958016	25.0000	20.774	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	607579			32.10- 92.10	63.42
17.804	17.804 (1.234)	111	467030			18.96- 78.96	48.75
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	947809	25.0000	18.681	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	911051			64.98- 124.98	96.12
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	679972	25.0000	19.964	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	433065			33.70- 93.70	63.69
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	2042826	25.0000	18.434	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	258530			0.00- 30.00	12.66

Report Date: 28-Nov-2007 15:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112605.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26nov.b/t14qn26a.m
Misc Info: 200ppbv --> 25ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 14:51
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	298719	179231	418207	302759	1.35
88 1,4-Difluorobenze	1167702	700621	1634783	1157079	-0.91
125 Chlorobenzene-d5	849922	509953	1189891	823137	-3.15

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

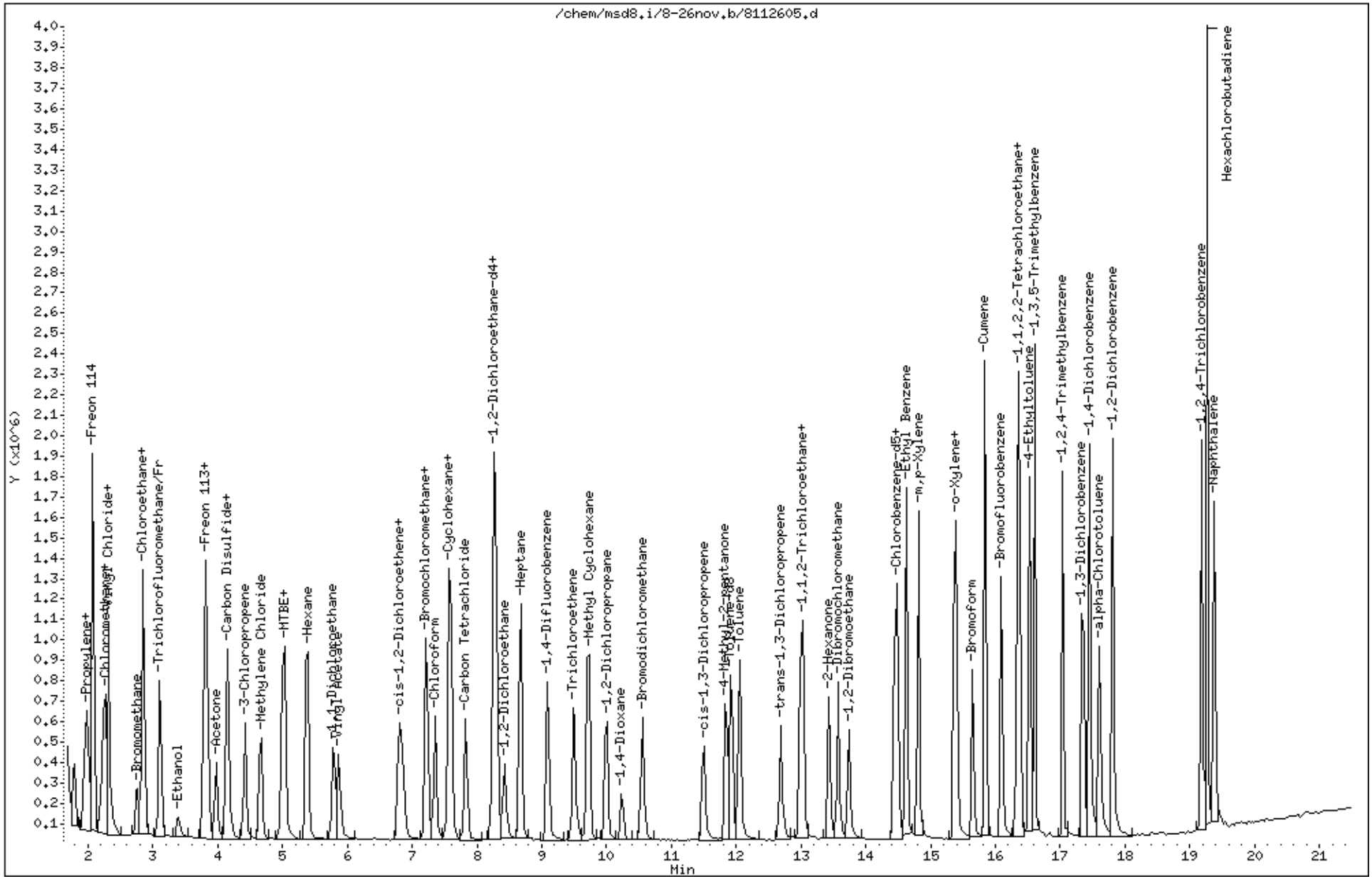
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0148

Data File: /chem/msd8.i/8-26nov.b/8112605.d
Date : 26-NOV-2007 14:23
Client ID: Level 4
Sample Info: 25mL #1576-90

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-30nov.b/8113005.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 30-NOV-2007 12:06
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1487-405
Misc Info : 50ppbv (200ppbv) sp19b
Comment :
Method : /chem/msd8.i/8-30nov.b/t14qn26b.m
Meth Date : 30-Nov-2007 15:21 cbond Quant Type: ISTD
Cal Date : 30-NOV-2007 12:06 Cal File: 8113005.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

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	263996	25.0000		80.00- 120.00	100.00
7.214	7.214 (1.000)	128	208546			49.00- 109.00	79.00
7.214	7.214 (1.000)	49	549220			178.04- 238.04	208.04
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1026380	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	189084			0.00- 48.42	18.42
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	771026	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	497200			34.49- 94.49	64.49
7 Isobutane					CAS #: 75-28-5		
2.099	2.099 (0.291)	43	2073487	50.0000	40.335	80.00- 120.00	100.00
2.099	2.099 (0.291)	42	679564			2.77- 62.77	32.77
2.099	2.099 (0.291)	58	62210			0.00- 33.00	3.00
19 Pentane					CAS #: 109-66-0		
3.178	3.178 (0.440)	43	2087936	50.0000	40.716	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.178	3.178 (0.440)	57	311732			0.00- 44.93	14.93
3.178	3.178 (0.440)	72	195886			0.00- 39.38	9.38
25 Acrolein					CAS #: 107-02-8		
3.758	3.758 (0.521)	55	341429	50.0000	39.418	80.00- 120.00	100.00
3.758	3.758 (0.521)	56	481020			110.88- 170.88	140.88
35 Acetonitrile					CAS #: 75-05-8		
4.505	4.505 (0.624)	40	504745	50.0000	38.134	80.00- 120.00	100.00
4.505	4.505 (0.624)	41	1039932			176.03- 236.03	206.03
4.505	4.505 (0.624)	38	107975			0.00- 51.39	21.39
41 Acrylonitrile					CAS #: 107-13-1		
5.141	5.141 (0.713)	53	798825	50.0000	42.669	80.00- 120.00	100.00
5.141	5.141 (0.713)	52	703575			58.08- 118.08	88.08
44 1-Pentene					CAS #: 109-67-1		
3.122	3.122 (0.433)	55	1219970	50.0000	41.819	80.00- 120.00	100.00(T)
3.122	3.122 (0.433)	42	1655852			105.73- 165.73	135.73
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.482	3.482 (0.483)	74	495715	50.0000	40.056	80.00- 120.00	100.00(T)
3.482	3.482 (0.483)	59	785874			128.53- 188.53	158.53
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.090	4.090 (0.567)	142	1845423	50.0000	46.962	80.00- 120.00	100.00
4.090	4.090 (0.567)	127	648379			5.13- 65.13	35.13
62 1-Hexene					CAS #: 592-41-6		
5.251	5.251 (0.728)	55	744827	50.0000	41.914	80.00- 120.00	100.00
5.251	5.251 (0.728)	41	1085437			115.73- 175.73	145.73
5.279	5.279 (0.732)	84	265585			5.66- 65.66	35.66
63 Methyl Acrylate					CAS #: 96-33-3		
6.993	6.993 (0.969)	55	1671980	50.0000	45.827	80.00- 120.00	100.00
6.993	6.993 (0.969)	85	233008			0.00- 43.94	13.94
6.993	6.993 (0.969)	58	137595			0.00- 38.23	8.23
90 Methyl Methacrylate					CAS #: 80-62-6		
10.256	10.256 (1.128)	41	1183250	50.0000	45.338	80.00- 120.00	100.00
10.256	10.256 (1.128)	69	720810			30.92- 90.92	60.92
10.284	10.284 (1.131)	100	261864			0.00- 52.13	22.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.979	9.979 (1.097)	43	2210197	50.0000	46.098	80.00- 120.00	100.00
9.979	9.979 (1.097)	58	165693			0.00- 37.50	7.50
9.979	9.979 (1.097)	86	322053			0.00- 44.57	14.57
93 Ethyl Acrylate					CAS #: 140-88-5		
9.813	9.813 (1.079)	55	1864247	50.0000	47.819	80.00- 120.00	100.00
9.813	9.813 (1.079)	99	97866			0.00- 35.25	5.25
9.813	9.813 (1.079)	45	161042			0.00- 38.64	8.64
96 Dibromomethane					CAS #: 74-95-3		
10.228	10.228 (1.125)	174	565053	50.0000	40.290	80.00- 120.00	100.00
10.228	10.228 (1.125)	93	690347			92.17- 152.17	122.17
10.228	10.228 (1.125)	95	576650			72.05- 132.05	102.05
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.422	16.422 (1.138)	89	309407	50.0000	53.108	80.00- 120.00	100.00
16.422	16.422 (1.138)	53	570560			154.40- 214.40	184.40
16.422	16.422 (1.138)	124	89862			0.00- 59.04	29.04
121 Alphamethylstyrene					CAS #: 98-83-9		
16.892	16.892 (1.171)	118	1098762	50.0000	49.050	80.00- 120.00	100.00
16.892	16.892 (1.171)	103	700613			33.76- 93.76	63.76
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.334	17.334 (1.201)	93	1524109	50.0000	48.245	80.00- 120.00	100.00
17.334	17.334 (1.201)	95	467375			0.67- 60.67	30.67
17.334	17.334 (1.201)	63	1193955			48.34- 108.34	78.34
128 Nonane					CAS #: 111-84-2		
14.818	14.818 (1.027)	43	1915215	50.0000	43.893	80.00- 120.00	100.00
14.818	14.818 (1.027)	57	1575373			52.26- 112.26	82.26
14.846	14.846 (1.029)	85	527521			0.00- 57.54	27.54

QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 30-Nov-2007 15:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8113005.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-30nov.b/t14qn26b.m
Misc Info: 50ppbv (200ppbv) sp19b

Calibration Date: 30-NOV-2007
Calibration Time: 12:06
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	263996	158398	369594	263996	0.00
88 1,4-Difluorobenze	1026380	615828	1436932	1026380	0.00
125 Chlorobenzene-d5	771026	462616	1079436	771026	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

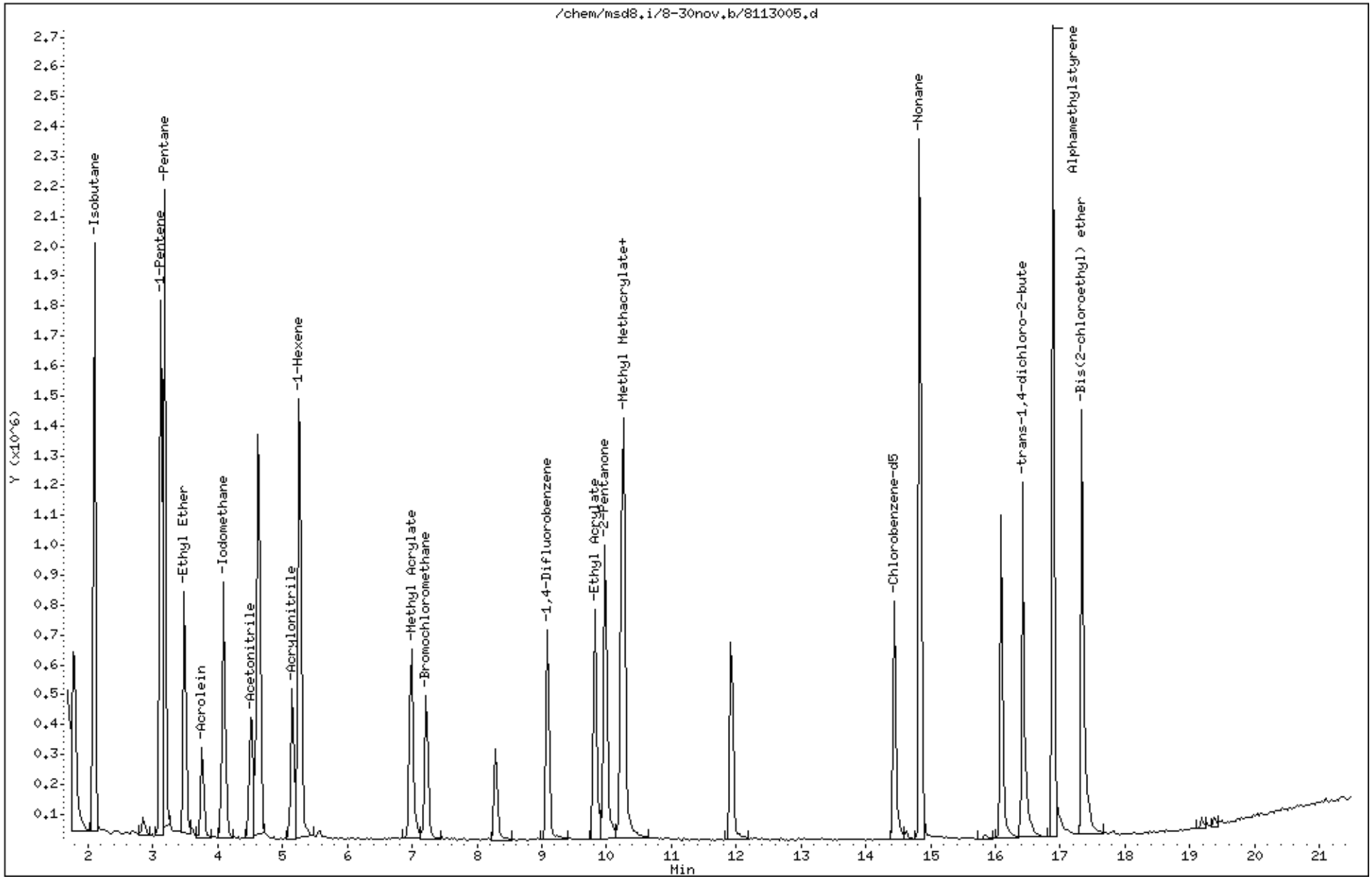
0153

Data File: /chem/msd8.i/8-30nov.b/8113005.d
Date : 30-NOV-2007 12:06
Client ID: Level 5
Sample Info: 50mL #1487-405

Column phase: RTx-624

Instrument: msd8.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-27nov.b/8112706.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 27-NOV-2007 12:01
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1443-375
Misc Info : 200ppbv --> 50ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 16:26 ctaylor Quant Type: ISTD
Cal Date : 27-NOV-2007 12:01 Cal File: 8112706.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp16a.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.215 (1.000)	130	299018	25.0000		80.00- 120.00	100.00
7.215	7.215 (1.000)	128	229217			46.66- 106.66	76.66
7.215	7.215 (1.000)	49	617612			176.55- 236.55	206.55
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1170549	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	208100			0.00- 47.78	17.78
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	849625	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	554525			35.27- 95.27	65.27
36 Cyclopentene					CAS #: 142-29-0		
4.477	4.477 (0.621)	67	2115546	50.0000	38.191	80.00- 120.00	100.00
4.477	4.477 (0.621)	68	810539			8.31- 68.31	38.31
4.477	4.477 (0.621)	53	454290			0.00- 51.47	21.47
60 2,2-Dichloropropane					CAS #: 594-20-7		
6.745	6.745 (0.935)	77	1100855	50.0000	65.817	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 2,2-Dichloropropane (continued)							
6.745	6.745 (0.935)	79	352696			2.04- 62.04	32.04
6.745	6.745 (0.935)	97	210644			0.00- 49.13	19.13
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.906	7.906 (1.096)	110	415353	50.0000	36.076	80.00- 120.00	100.00
7.906	7.906 (1.096)	75	1191817			256.94- 316.94	286.94
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.270	13.270 (1.459)	76	1191574	50.0000	39.085	80.00- 120.00	100.00
13.270	13.270 (1.459)	41	989086			53.01- 113.01	83.01
13.270	13.270 (1.459)	78	377316			1.67- 61.67	31.67
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.625	14.625 (1.013)	131	834116	50.0000	40.549	80.00- 120.00	100.00
14.625	14.625 (1.013)	117	566681			37.94- 97.94	67.94
14.625	14.625 (1.013)	95	361391			13.33- 73.33	43.33
139 Bromobenzene					CAS #: 108-86-1		
16.256	16.256 (1.126)	156	887875	50.0000	36.496	80.00- 120.00	100.00
16.228	16.228 (1.125)	77	1970860			191.97- 251.97	221.97
16.256	16.256 (1.126)	158	845019			65.17- 125.17	95.17
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.367	16.367 (1.134)	110	533205	50.0000	40.898	80.00- 120.00	100.00
16.367	16.367 (1.134)	61	428166			50.30- 110.30	80.30
16.367	16.367 (1.134)	112	308655			27.89- 87.89	57.89
143 2-Chlorotoluene					CAS #: 95-49-8		
16.477	16.477 (1.142)	126	789114	50.0000	38.534	80.00- 120.00	100.00
16.477	16.477 (1.142)	91	2718705			314.53- 374.53	344.53
16.477	16.477 (1.142)	65	287382			6.42- 66.42	36.42
146 4-Chlorotoluene					CAS #: 106-43-4		
16.643	16.643 (1.153)	126	805238	50.0000	35.333	80.00- 120.00	100.00
16.643	16.643 (1.153)	91	2754212			312.04- 372.04	342.04
16.643	16.643 (1.153)	63	388645			18.26- 78.26	48.26
150 tert-Butylbenzene					CAS #: 98-06-6		
16.975	16.975 (1.176)	119	3213677	50.0000	36.599	80.00- 120.00	100.00
16.975	16.975 (1.176)	134	755724			0.00- 53.52	23.52
16.975	16.975 (1.176)	91	2234385			39.53- 99.53	69.53
151 Pentachloroethane					CAS #: 76-01-7		
17.030	17.030 (1.180)	167	684526	50.0000	40.507	80.00- 120.00	100.00
17.030	17.030 (1.180)	117	810776			88.44- 148.44	118.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
152 sec-Butylbenzene					CAS #: 135-98-8		
17.224	17.224 (1.194)	105	4379438	50.0000	38.544	80.00- 120.00	100.00
17.224	17.224 (1.194)	134	830450			0.00- 48.96	18.96
17.224	17.224 (1.194)	91	658823			0.00- 45.04	15.04
154 p-Cymene					CAS #: 99-87-6		
17.362	17.362 (1.203)	134	848836	50.0000	39.464	80.00- 120.00	100.00
17.362	17.362 (1.203)	119	3469629			378.75- 438.75	408.75
17.362	17.362 (1.203)	91	1005693			88.48- 148.48	118.48
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.473	17.473 (1.211)	120	1130444	50.0000	40.142	80.00- 120.00	100.00
17.473	17.473 (1.211)	105	3067363			241.34- 301.34	271.34
17.473	17.473 (1.211)	77	411838			6.43- 66.43	36.43
159 Butylbenzene					CAS #: 104-51-8		
17.777	17.777 (1.232)	134	1050445	50.0000	41.891	80.00- 120.00	100.00
17.777	17.777 (1.232)	91	4025828			353.25- 413.25	383.25
17.777	17.777 (1.232)	92	2146891			174.38- 234.38	204.38
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.523	18.523 (1.284)	157	992256	50.0000	42.068	80.00- 120.00	100.00
18.523	18.523 (1.284)	75	1389687			110.05- 170.05	140.05
18.523	18.523 (1.284)	155	794072			50.03- 110.03	80.03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112706.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 200ppbv --> 50ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 12:01
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	299018	179411	418625	299018	0.00
88 1,4-Difluorobenze	1170549	702329	1638769	1170549	0.00
125 Chlorobenzene-d5	849625	509775	1189475	849625	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

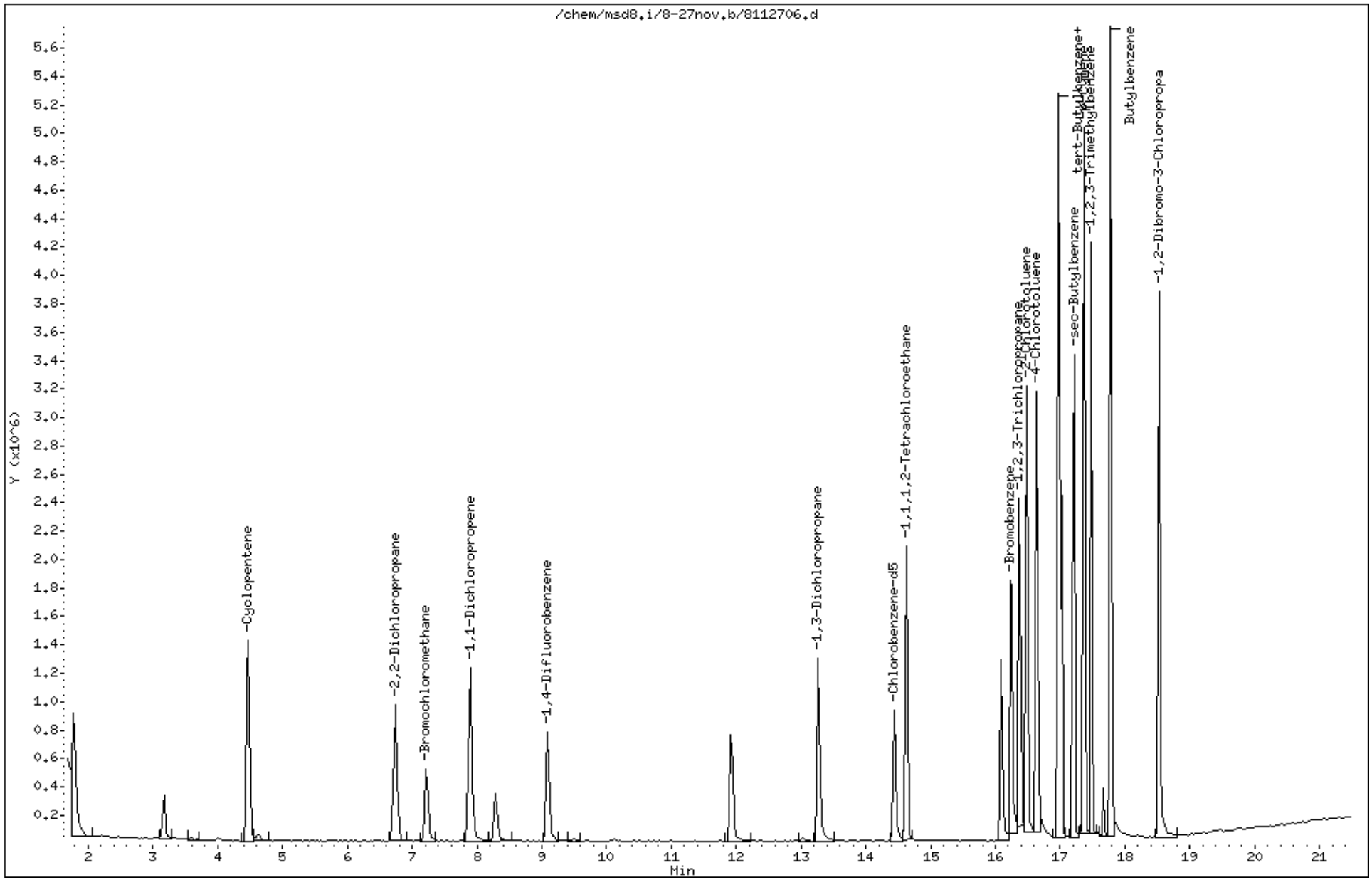
0158

Data File: /chem/msd8.i/8-27nov.b/8112706.d
Date : 27-NOV-2007 12:01
Client ID: Level 5
Sample Info: 50mL #1443-375

Instrument: msd8.i

Operator: cb

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-27nov.b/8112703.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 27-NOV-2007 10:24
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1576-134
Misc Info : 200ppbv --> 50ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 16:19 ctaylor Quant Type: ISTD
Cal Date : 27-NOV-2007 10:24 Cal File: 8112703.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21a.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane						CAS #: 74-97-5	
7.214	7.214 (1.000)	130	309096	25.0000		80.00- 120.00	100.00
7.214	7.214 (1.000)	128	232526			45.23- 105.23	75.23
7.214	7.214 (1.000)	49	633306			174.89- 234.89	204.89
* 88 1,4-Difluorobenzene						CAS #: 540-36-3	
9.095	9.095 (1.000)	114	1212763	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	224220			0.00- 48.49	18.49
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.431	14.431 (1.000)	117	882030	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	592805			37.21- 97.21	67.21
1 Freon 152a						CAS #: 75-37-6	
1.933	1.933 (0.268)	65	567230	50.0000	50.000	80.00- 120.00	100.00
1.878	1.878 (0.260)	51	181531			2.00- 62.00	32.00
5 Freon134a						CAS #: 811-97-2	
1.878	1.878 (0.260)	83	726288	50.0000	50.000	80.00- 120.00	100.00
1.823	1.823 (0.253)	69	3328010			428.22- 488.22	458.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.095	3.095 (0.429)	67	1389919	50.0000	50.000	80.00- 120.00	100.00
3.095	3.095 (0.429)	69	436010			1.37- 61.37	31.37
3.095	3.095 (0.429)	35	45960			0.00- 33.31	3.31
20 Freon123a					CAS #: 354-23-4		
3.565	3.565 (0.494)	67	1164512	50.0000	50.000	80.00- 120.00	100.00
3.565	3.565 (0.494)	117	719889			31.82- 91.82	61.82
21 Freon123					CAS #: 306-83-2		
3.675	3.675 (0.509)	83	1480997	50.0000	50.000	80.00- 120.00	100.00
3.675	3.675 (0.509)	133	239587			0.00- 46.18	16.18
3.675	3.675 (0.509)	85	1004949			37.86- 97.86	67.86
24 Freon 13					CAS #: 75-72-9		
1.795	1.795 (0.249)	85	423096	50.0000	50.000	80.00- 120.00	100.00
1.823	1.823 (0.253)	69	3327808			756.54- 816.54	786.54
1.795	1.795 (0.249)	87	129979			0.72- 60.72	30.72
27 Freon142b					CAS #: 75-68-3		
2.155	2.155 (0.299)	65	1542118	50.0000	50.000	80.00- 120.00	100.00
2.155	2.155 (0.299)	45	443760			0.00- 58.78	28.78
32 Freon143a					CAS #: 420-46-2		
1.823	1.823 (0.253)	65	388077	50.0000	50.000	80.00- 120.00	100.00
1.823	1.823 (0.253)	69	3439824			856.38- 916.38	886.38
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	1531751	50.0000	50.000	80.00- 120.00	100.00
4.809	4.809 (0.667)	41	402347			0.00- 56.27	26.27
4.809	4.809 (0.667)	57	152709			0.00- 39.97	9.97
49 Isopropyl ether					CAS #: 108-20-3		
5.804	5.804 (0.805)	45	3842824	50.0000	50.000	80.00- 120.00	100.00
5.804	5.804 (0.805)	87	830957			0.00- 51.62	21.62
5.804	5.804 (0.805)	59	388693			0.00- 40.11	10.11
52 1-Propanol					CAS #: 71-23-8		
5.998	5.998 (0.831)	42	188781	50.0000	50.000	80.00- 120.00	100.00
5.998	5.998 (0.831)	59	202805			77.43- 137.43	107.43
5.998	5.998 (0.831)	41	121511			34.37- 94.37	64.37
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.413	6.413 (0.889)	59	2609536	50.0000	50.000	80.00- 120.00	100.00
6.413	6.413 (0.889)	87	947207			6.30- 66.30	36.30
6.413	6.413 (0.889)	41	529005			0.00- 50.27	20.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
61 Ethyl Acetate					CAS #: 141-78-6		
6.910	6.910 (0.958)	70	211943	50.0000	50.000	80.00- 120.00	100.00
6.910	6.910 (0.958)	43	2448949			1125.48-1185.48	1155.48
6.910	6.910 (0.958)	61	299960			111.53- 171.53	141.53
78 Isobutanol					CAS #: 78-83-1		
8.265	8.265 (0.909)	43	904581	50.0000	50.000	80.00- 120.00	100.00
8.265	8.265 (0.909)	41	636664			40.38- 100.38	70.38
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.459	8.459 (1.172)	73	1934045	50.0000	50.000	80.00- 120.00	100.00
8.459	8.459 (1.172)	87	491423			0.00- 55.41	25.41
8.459	8.459 (1.172)	55	665063			4.39- 64.39	34.39
89 1-Butanol					CAS #: 71-36-3		
9.537	9.537 (1.049)	56	654493	50.0000	50.000	80.00- 120.00	100.00
9.537	9.537 (1.049)	41	488388			44.62- 104.62	74.62
9.537	9.537 (1.049)	43	382515			28.44- 88.44	58.44
113 Butyl Acetate					CAS #: 123-86-4		
13.629	13.629 (1.499)	56	941656	50.0000	50.000	80.00- 120.00	100.00
13.629	13.629 (1.499)	73	309415			2.86- 62.86	32.86
13.629	13.629 (1.499)	43	2465383			231.81- 291.81	261.81
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.809	16.809 (1.165)	57	3083470	50.0000	50.000	80.00- 120.00	100.00
16.809	16.809 (1.165)	85	2250478			42.99- 102.99	72.99
133 2-Heptanone					CAS #: 110-43-0		
15.620	15.620 (1.082)	58	1470286	50.0000	50.000	80.00- 120.00	100.00
15.620	15.620 (1.082)	43	2497671			139.88- 199.88	169.88
136 Cyclohexanone					CAS #: 108-94-1		
16.007	16.007 (1.109)	55	1306046	50.0000	50.000	80.00- 120.00	100.00
16.007	16.007 (1.109)	98	432770			3.14- 63.14	33.14
16.007	16.007 (1.109)	42	909495			39.64- 99.64	69.64

Report Date: 28-Nov-2007 16:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112703.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 200ppbv --> 50ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 10:24
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	309096	185458	432734	309096	0.00
88 1,4-Difluorobenze	1212763	727658	1697868	1212763	0.00
125 Chlorobenzene-d5	882030	529218	1234842	882030	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

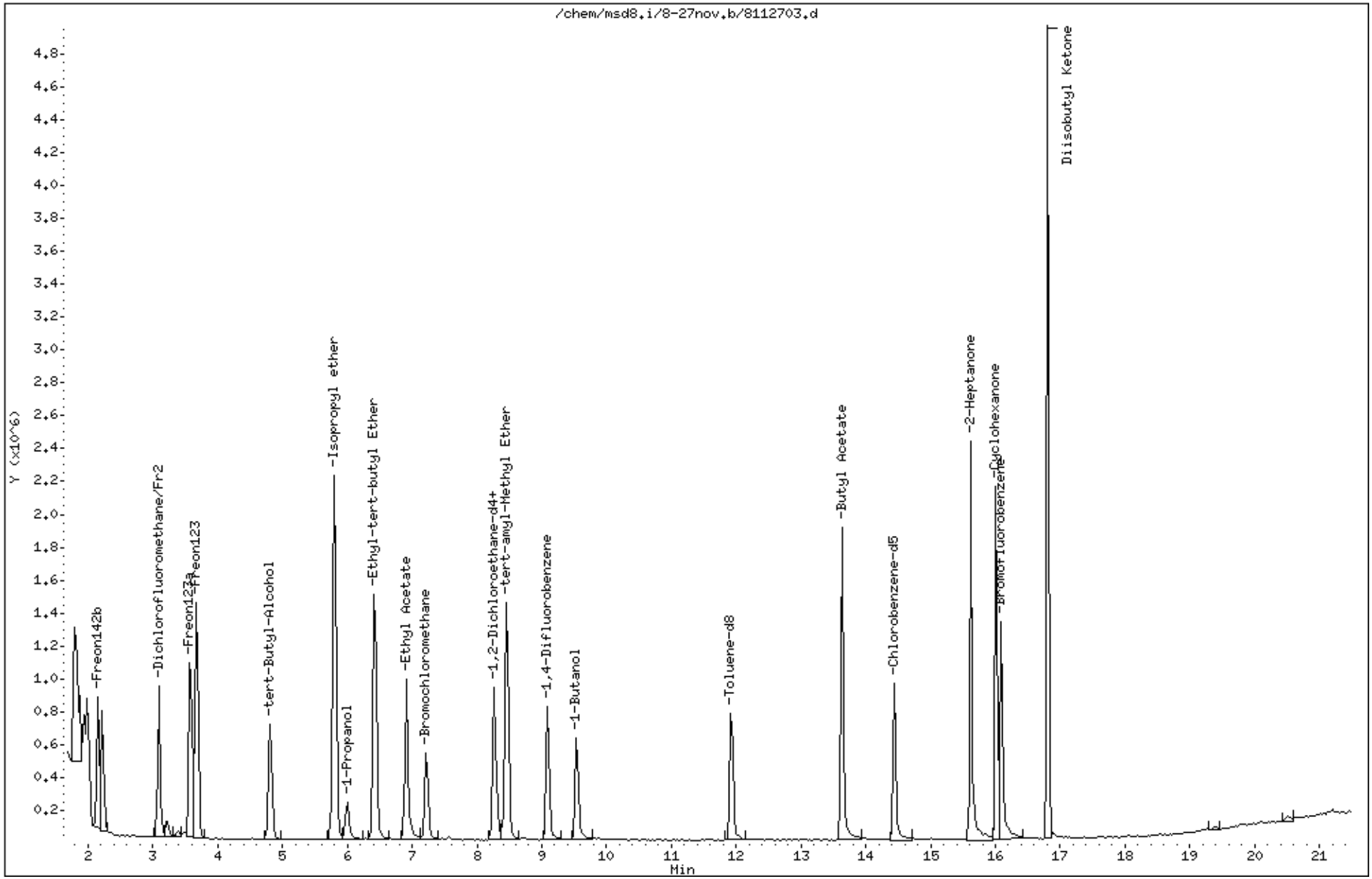
0163

Data File: /chem/msd8.i/8-27nov.b/8112703.d
Date : 27-NOV-2007 10:24
Client ID: Level 5
Sample Info: 50mL #1576-134

Column phase: RTx-624

Instrument: msd8.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26nov.b/8112606.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 26-NOV-2007 14:51
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1576-90
Misc Info : 200ppbv --> 50ppbv
Comment :
Method : /chem/msd8.i/8-26nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 15:47 ctaylor Quant Type: ISTD
Cal Date : 26-NOV-2007 14:51 Cal File: 8112606.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.215 (1.000)	130	298719	25.0000		80.00- 120.00	100.00
7.215	7.215 (1.000)	128	238841			49.96- 109.96	79.96
7.215	7.215 (1.000)	49	598670			170.41- 230.41	200.41
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1167702	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	206857			0.00- 47.71	17.71
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	849922	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	551785			34.92- 94.92	64.92
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	473272	25.0000	25.394	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	278363			28.82- 88.82	58.82
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1087452	25.0000	25.649	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	117730			0.00- 40.83	10.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	823465			45.72- 105.72	75.72
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	470875	25.0000	25.324	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	778026			135.23- 195.23	165.23
16.090	16.090 (1.115)	176	450742			65.72- 125.72	95.72
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	876221	50.0000	44.189	80.00- 120.00	100.00
1.933	1.933 (0.268)	42	586479			36.93- 96.93	66.93
1.933	1.933 (0.268)	39	600337			38.51- 98.51	68.51
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	2064993	50.0000	41.543	80.00- 120.00	100.00
1.989	1.989 (0.276)	87	659140			1.92- 61.92	31.92
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.287)	135	1518427	50.0000	38.801	80.00- 120.00	100.00
2.072	2.072 (0.287)	137	462836			0.48- 60.48	30.48
8 Chloromethane					CAS #: 74-87-3		
2.210	2.210 (0.306)	50	1080130	50.0000	44.460	80.00- 120.00	100.00
2.210	2.210 (0.306)	52	322800			0.00- 59.89	29.89
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	235329	50.0000	41.581	80.00- 120.00	100.00
2.265	2.265 (0.314)	43	1837380			750.77- 810.77	780.77
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.321 (0.322)	62	1144189	50.0000	42.006	80.00- 120.00	100.00
2.348	2.348 (0.325)	64	338583			0.00- 59.59	29.59
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.322)	54	1014540	50.0000	42.226	80.00- 120.00	100.00
2.321	2.321 (0.322)	39	944518			63.10- 123.10	93.10
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	794068	50.0000	46.576	80.00- 120.00	100.00
2.763	2.763 (0.383)	96	744950			63.81- 123.81	93.81
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.394)	64	569184	50.0000	48.455	80.00- 120.00	100.00
2.846	2.846 (0.394)	49	160969			0.00- 58.28	28.28
2.846	2.846 (0.394)	66	175580			0.85- 60.85	30.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	1577644	50.0000	43.786	80.00- 120.00	100.00
2.846	2.846 (0.394)	57	1004076			33.64- 93.64	63.64
2.846	2.846 (0.394)	72	99672			0.00- 36.32	6.32
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.429)	101	2092805	50.0000	39.781	80.00- 120.00	100.00
3.095	3.095 (0.429)	103	1374717			35.69- 95.69	65.69
23 Ethanol					CAS #: 64-17-5		
3.399	3.399 (0.471)	45	446105	50.0000	43.796	80.00- 120.00	100.00
3.399	3.399 (0.471)	43	85427			0.00- 49.15	19.15
3.399	3.399 (0.471)	46	183175			11.06- 71.06	41.06
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	1199257	50.0000	40.377	80.00- 120.00	100.00
3.814	3.814 (0.529)	153	762815			33.61- 93.61	63.61
3.814	3.814 (0.529)	101	1729085			114.18- 174.18	144.18
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	1471834	50.0000	41.546	80.00- 120.00	100.00
3.841	3.841 (0.532)	96	847704			27.60- 87.60	57.60
3.841	3.841 (0.532)	98	530604			6.05- 66.05	36.05
30 Acetone					CAS #: 67-64-1		
3.980	3.980 (0.552)	58	545516	50.0000	44.176	80.00- 120.00	100.00
3.980	3.980 (0.552)	43	1703138			282.21- 342.21	312.21
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	2826620	50.0000	43.217	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	2005148	50.0000	48.652	80.00- 120.00	100.00
4.145	4.145 (0.575)	43	410270			0.00- 50.46	20.46
4.173	4.173 (0.578)	59	70459			0.00- 33.51	3.51
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	439722	50.0000	48.849	80.00- 120.00	100.00
4.422	4.422 (0.613)	41	1558352			324.39- 384.39	354.39
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	1250572	50.0000	40.272	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	782560			32.58- 92.58	62.58
4.671	4.671 (0.647)	51	366348			0.00- 59.29	29.29
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	1912982	50.0000	59.004	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
43 MTBE (continued)							
5.003	5.003 (0.693)	57	540941			0.00- 58.28	28.28
5.003	5.003 (0.693)	41	549124			0.00- 58.71	28.71
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	954401	50.0000	41.344	80.00- 120.00	100.00
5.030	5.030 (0.697)	61	1539233			131.28- 191.28	161.28
5.030	5.030 (0.697)	98	611183			34.04- 94.04	64.04
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	1840872	50.0000	43.745	80.00- 120.00	100.00
5.390	5.390 (0.747)	43	1210192			35.74- 95.74	65.74
5.390	5.390 (0.747)	86	276590			0.00- 45.02	15.02
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	1787360	50.0000	44.505	80.00- 120.00	100.00
5.777	5.777 (0.801)	65	544361			0.46- 60.46	30.46
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	221011	50.0000	53.331	80.00- 120.00	100.00
5.860	5.860 (0.812)	43	2663620			1175.20-1235.20	1205.20
5.860	5.860 (0.812)	42	200218			60.59- 120.59	90.59
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	1249411	50.0000	39.746	80.00- 120.00	100.00
6.800	6.800 (0.942)	96	855107			38.44- 98.44	68.44
6.800	6.800 (0.942)	98	557978			14.66- 74.66	44.66
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	421989	50.0000	43.638	80.00- 120.00	100.00
6.855	6.855 (0.950)	43	2193866			489.89- 549.89	519.89
6.855	6.855 (0.950)	57	148628			5.22- 65.22	35.22
67 Tetrahydrofuran					CAS #: 109-99-9		
7.215	7.215 (1.000)	42	1249168	50.0000	38.747	80.00- 120.00	100.00
7.215	7.215 (1.000)	71	381723			0.56- 60.56	30.56
7.215	7.215 (1.000)	72	406940			2.58- 62.58	32.58
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	1602917	50.0000	41.912	80.00- 120.00	100.00
7.353	7.353 (1.019)	85	1045323			35.21- 95.21	65.21
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	1272880	50.0000	41.941	80.00- 120.00	100.00
7.574	7.574 (1.050)	56	1694401			103.12- 163.12	133.12
7.574	7.574 (1.050)	41	950559			44.68- 104.68	74.68

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		
7.602	7.602 (1.054)	97	1544027	50.0000	44.845	80.00- 120.00	100.00
7.602	7.602 (1.054)	99	1002059			34.90- 94.90	64.90
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	1244175	50.0000	45.642	80.00- 120.00	100.00
7.823	7.823 (1.084)	117	1283785			73.18- 133.18	103.18
81 Benzene					CAS #: 71-43-2		
8.238	8.238 (0.906)	78	2592890	50.0000	41.880	80.00- 120.00	100.00
8.238	8.238 (0.906)	77	585544			0.00- 52.58	22.58
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	5120981	50.0000	43.107	80.00- 120.00	100.00
8.293	8.293 (1.149)	56	1610717			1.45- 61.45	31.45
8.293	8.293 (1.149)	41	1318987			0.00- 55.76	25.76
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	1162511	50.0000	39.266	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	362141			1.15- 61.15	31.15
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	272412	50.0000	40.993	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	1888378			663.21- 723.21	693.21
8.680	8.680 (0.954)	71	897879			299.60- 359.60	329.60
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	970691	50.0000	41.091	80.00- 120.00	100.00
9.509	9.509 (1.046)	130	893231			62.02- 122.02	92.02
9.482	9.482 (1.043)	97	611869			33.03- 93.03	63.03
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.731	9.731 (1.349)	83	1480866	50.0000	42.948	80.00- 120.00	100.00
9.731	9.731 (1.349)	98	679422			15.88- 75.88	45.88
9.731	9.731 (1.349)	55	1466627			69.04- 129.04	99.04
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	923664	50.0000	40.509	80.00- 120.00	100.00
10.007	10.007 (1.100)	62	626537			37.83- 97.83	67.83
10.007	10.007 (1.100)	41	581471			32.95- 92.95	62.95
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	555892	50.0000	48.574	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	443019			49.70- 109.70	79.70
10.228	10.228 (1.125)	57	141005			0.00- 55.37	25.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	1530884	50.0000	43.163	80.00- 120.00	100.00
10.560	10.560 (1.161)	85	967261			33.18- 93.18	63.18
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	1136041	50.0000	43.292	80.00- 120.00	100.00
11.500	11.500 (1.264)	77	355752			1.32- 61.32	31.32
11.500	11.500 (1.264)	39	739157			35.06- 95.06	65.06
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	726461	50.0000	47.169	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	1996845			244.87- 304.87	274.87
11.832	11.832 (1.301)	85	280913			8.67- 68.67	38.67
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	2355181	50.0000	42.166	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	1373282			28.31- 88.31	58.31
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	1164795	50.0000	44.657	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	354770			0.46- 60.46	30.46
12.689	12.689 (0.879)	39	706425			30.65- 90.65	60.65
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	784903	50.0000	43.653	80.00- 120.00	100.00
12.993	12.993 (0.900)	99	479125			31.04- 91.04	61.04
12.993	12.993 (0.900)	83	706390			60.00- 120.00	90.00
112 Tetrachloroethene					CAS #: 127-18-4		
13.049	13.049 (0.904)	166	902762	50.0000	41.105	80.00- 120.00	100.00
13.021	13.021 (0.902)	129	745536			52.58- 112.58	82.58
13.021	13.021 (0.902)	131	712479			48.92- 108.92	78.92
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	970027	50.0000	52.026	80.00- 120.00	100.00
13.436	13.436 (0.931)	43	1975318			173.64- 233.64	203.64
13.436	13.436 (0.931)	100	163298			0.00- 46.83	16.83
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	1173893	50.0000	44.165	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	930936			49.30- 109.30	79.30
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	1300796	50.0000	43.401	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	1221334			63.89- 123.89	93.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	1838208	50.0000	41.471	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	577686			1.43- 61.43	31.43
14.486	14.486 (1.004)	77	1199820			35.27- 95.27	65.27
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	1079326	50.0000	43.758	80.00- 120.00	100.00
14.625	14.625 (1.013)	91	3433694			288.13- 348.13	318.13
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	1347901	50.0000	43.763	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	2677081			168.61- 228.61	198.61
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	1234646	50.0000	44.471	80.00- 120.00	100.00
15.371	15.371 (1.065)	91	2628853			182.92- 242.92	212.92
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	2180530	50.0000	49.653	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	1158125			23.11- 83.11	53.11
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	1090185	50.0000	48.514	80.00- 120.00	100.00
15.648	15.648 (1.084)	171	547007			20.18- 80.18	50.18
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	3897561	50.0000	45.163	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	912186			0.00- 53.40	23.40
15.841	15.841 (1.098)	51	477851			0.00- 42.26	12.26
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	1961345	50.0000	44.479	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	1266482			34.57- 94.57	64.57
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	4769869	50.0000	47.378	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	969067			0.00- 50.32	20.32
16.366	16.366 (1.134)	105	168590			0.00- 33.53	3.53
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	3820083	50.0000	47.558	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	1028860			0.00- 56.93	26.93
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	3710581	50.0000	43.716	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	1626397			13.83- 73.83	43.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	3154319	50.0000	45.911	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	1258839			9.91- 69.91	39.91
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	1781092	50.0000	42.819	80.00- 120.00	100.00
17.362	17.362 (1.203)	148	1106841			32.14- 92.14	62.14
17.334	17.334 (1.201)	111	797798			14.79- 74.79	44.79
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	2210015	50.0000	39.852	80.00- 120.00	100.00
17.445	17.445 (1.209)	148	1384324			32.64- 92.64	62.64
17.445	17.445 (1.209)	111	987878			14.70- 74.70	44.70
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	2822363	50.0000	47.434	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	535503			0.00- 48.97	18.97
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	1878965	50.0000	41.655	80.00- 120.00	100.00
17.804	17.804 (1.234)	148	1166843			32.10- 92.10	62.10
17.804	17.804 (1.234)	111	919880			18.96- 78.96	48.96
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	1915720	50.0000	40.165	80.00- 120.00	100.00
19.187	19.187 (1.330)	182	1819577			64.98- 124.98	94.98
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	1320452	50.0000	40.947	80.00- 120.00	100.00
19.270	19.270 (1.335)	223	841144			33.70- 93.70	63.70
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	4220084	50.0000	40.415	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	505381			0.00- 41.98	11.98

Report Date: 28-Nov-2007 15:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112606.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26nov.b/t14qn26a.m
Misc Info: 200ppbv --> 50ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 14:51
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	298719	179231	418207	298719	0.00
88 1,4-Difluorobenze	1167702	700621	1634783	1167702	0.00
125 Chlorobenzene-d5	849922	509953	1189891	849922	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

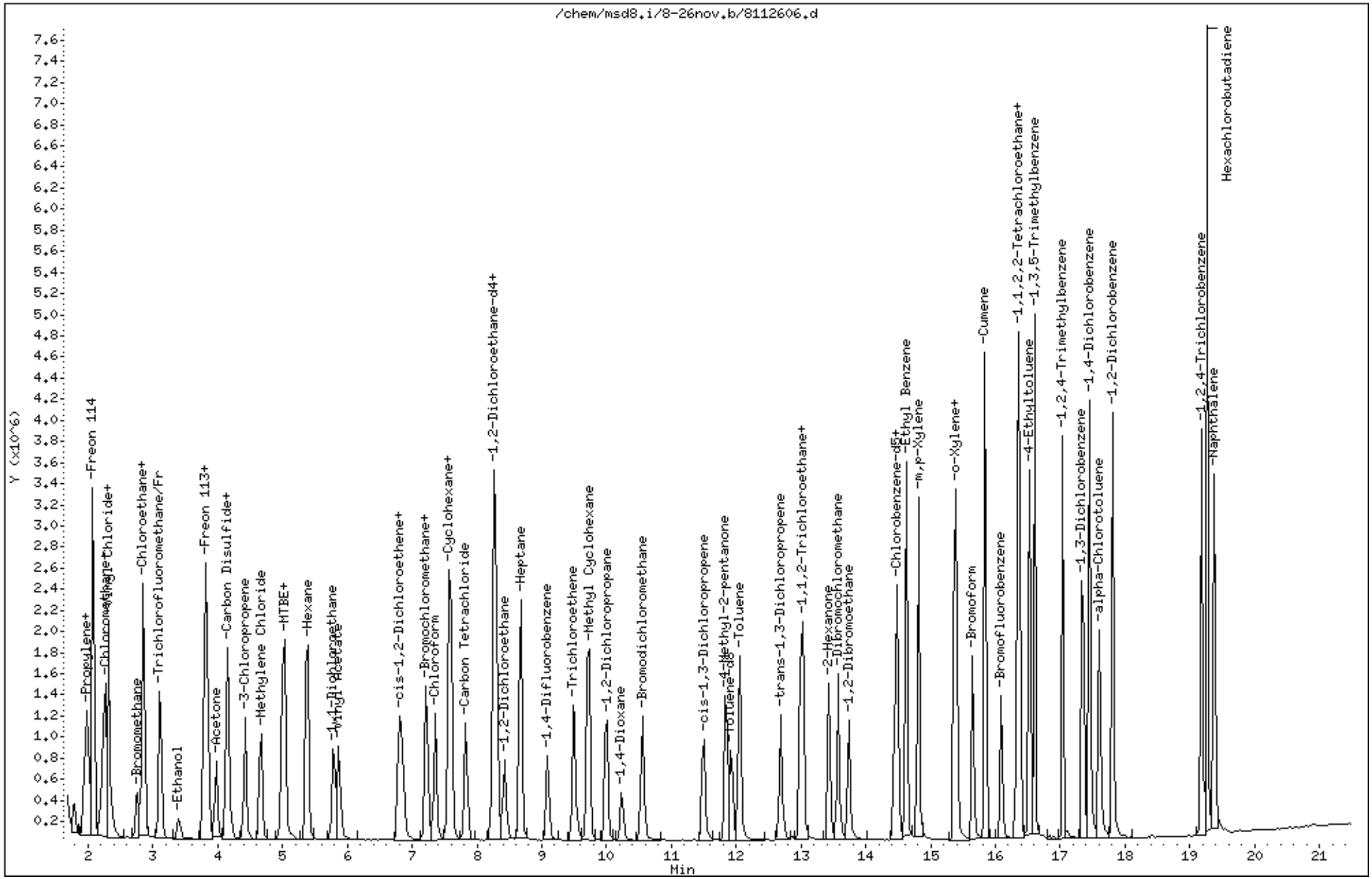
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0173

Data File: /chem/msd8.i/8-26nov.b/8112606.d
Date : 26-NOV-2007 14:51
Client ID: Level 5
Sample Info: 50mL #1576-90

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26nov.b/8112607.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 26-NOV-2007 15:19
Operator : cb Inst ID: msd8.i
Smp Info : 100mL #1576-90
Misc Info : 200ppbv --> 100ppbv
Comment :
Method : /chem/msd8.i/8-26nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 15:47 ctaylor Quant Type: ISTD
Cal Date : 26-NOV-2007 15:19 Cal File: 8112607.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	304154	25.0000		70.00- 130.00	100.00
7.214	7.214 (1.000)	128	242811			49.96- 109.96	79.83
7.214	7.214 (1.000)	49	644066			170.41- 230.41	211.76
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1227538	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	215656			0.00- 47.71	17.57
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	875862	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	585864			0.00- 30.00	66.89
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	523714	25.0000	27.036	70.00- 130.00	100.00
8.293	8.293 (1.149)	67	322159			0.00- 30.00	61.51
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1133297	25.0000	25.341	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	133876			0.00- 30.00	11.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	805597			0.00- 30.00	71.08
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	502462	25.0000	25.968	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	804085			135.23- 195.23	160.03
16.090	16.090 (1.115)	176	487614			65.72- 125.72	97.04
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	1703007	100.000	87.785	70.00- 130.00	100.00
1.933	1.933 (0.268)	42	1134184			0.00- 30.00	66.60
1.933	1.933 (0.268)	39	1170017			0.00- 30.00	68.70
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	3848528	100.000	79.867	70.00- 130.00	100.00
1.989	1.989 (0.276)	87	1226374			0.00- 30.00	31.87
6 Freon 114					CAS #: 76-14-2		
2.099	2.099 (0.291)	135	2942261	100.000	77.918	70.00- 130.00	100.00
2.099	2.099 (0.291)	137	915276			0.48- 60.48	31.11
8 Chloromethane					CAS #: 74-87-3		
2.210	2.210 (0.306)	50	2031504	100.000	85.967	70.00- 130.00	100.00
2.210	2.210 (0.306)	52	630569			0.00- 30.00	31.04
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	470022	100.000	85.507	70.00- 130.00	100.00
2.265	2.265 (0.314)	43	3725218			0.00- 30.00	792.56
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.348 (0.325)	62	2173751	100.000	81.921	70.00- 130.00	100.00
2.348	2.348 (0.325)	64	652101			0.00- 30.00	30.00
10 1,3-Butadiene					CAS #: 106-99-0		
2.320	2.320 (0.322)	54	1906464	100.000	81.530	70.00- 130.00	100.00
2.320	2.320 (0.322)	39	1914757			0.00- 30.00	100.43
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	1526063	100.000	90.090	70.00- 130.00	100.00
2.763	2.763 (0.383)	96	1436755			63.81- 123.81	94.15
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.394)	64	1103106	100.000	93.686	70.00- 130.00	100.00
2.846	2.846 (0.394)	49	312399			0.00- 30.00	28.32
2.873	2.873 (0.398)	66	340949			0.00- 30.00	30.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	3050232	100.000	86.801	70.00- 130.00	100.00
2.846	2.846 (0.394)	57	1947897			0.00- 30.00	63.86
2.873	2.873 (0.398)	72	194200			0.00- 30.00	6.37
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	4168735	100.000	81.436	70.00- 130.00	100.00
3.122	3.122 (0.433)	103	2659461			35.69- 95.69	63.80
23 Ethanol					CAS #: 64-17-5		
3.426	3.426 (0.475)	45	869306	100.000	87.352	70.00- 130.00	100.00
3.426	3.426 (0.475)	43	156884			0.00- 30.00	18.05
3.426	3.426 (0.475)	46	358188			0.00- 30.00	41.20
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	2326916	100.000	80.664	70.00- 130.00	100.00
3.814	3.814 (0.529)	153	1461991			33.61- 93.61	62.83
3.814	3.814 (0.529)	101	3382850			114.18- 174.18	145.38
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	2966272	100.000	85.263	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	1643669			27.60- 87.60	55.41
3.841	3.841 (0.532)	98	1055799			6.05- 66.05	35.59
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	1101885	100.000	90.431	70.00- 130.00	100.00
3.979	3.979 (0.552)	43	3445799			0.00- 30.00	312.72
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	5661918	100.000	87.646	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	4097998	100.000	98.232	70.00- 130.00	100.00
4.173	4.173 (0.578)	43	830845			0.00- 30.00	20.27
4.173	4.173 (0.578)	59	146803			0.00- 30.00	3.58
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	906787	100.000	99.200	70.00- 130.00	100.00
4.422	4.422 (0.613)	41	3149417			0.00- 30.00	347.32
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	2489115	100.000	82.222	70.00- 130.00	100.00
4.671	4.671 (0.647)	84	1554146			32.58- 92.58	62.44
4.671	4.671 (0.647)	51	744642			0.00- 30.00	29.92
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	3538972	100.000	105.68	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
43 MTBE (continued)							
5.003	5.003 (0.693)	57	994497			0.00- 58.28	28.10
5.003	5.003 (0.693)	41	994399			0.00- 30.00	28.10
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	1889307	100.000	83.664	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	3051716			131.28- 191.28	161.53
5.030	5.030 (0.697)	98	1210472			0.00- 30.00	64.07
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	3776358	100.000	90.278	70.00- 130.00	100.00
5.390	5.390 (0.747)	43	2474267			0.00- 30.00	65.52
5.390	5.390 (0.747)	86	560514			0.00- 30.00	14.84
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	3618632	100.000	90.578	70.00- 130.00	100.00
5.777	5.777 (0.801)	65	1063578			0.46- 60.46	29.39
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	452084	100.000	105.26	70.00- 130.00	100.00
5.860	5.860 (0.812)	43	5666644			0.00- 30.00	1253.45
5.860	5.860 (0.812)	42	433513			0.00- 30.00	95.89
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	2483162	100.000	81.223	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	1685099			38.44- 98.44	67.86
6.800	6.800 (0.942)	98	1076274			14.66- 74.66	43.34
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	875151	100.000	90.904	70.00- 130.00	100.00
6.855	6.855 (0.950)	43	4596866			489.89- 549.89	525.27
6.855	6.855 (0.950)	57	315637			0.00- 30.00	36.07
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (1.000)	42	2549615	100.000	81.302	70.00- 130.00	100.00
7.214	7.214 (1.000)	71	768068			0.56- 60.56	30.12
7.214	7.214 (1.000)	72	850058			0.00- 30.00	33.34
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	3220153	100.000	85.659	70.00- 130.00	100.00
7.353	7.353 (1.019)	85	2073453			35.21- 95.21	64.39
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	2518251	100.000	84.626	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	3409660			103.12- 163.12	135.40
7.574	7.574 (1.050)	41	1917549			44.68- 104.68	76.15

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		
7.602	7.602 (1.054)	97	3158190	100.000	91.910	70.00- 130.00	100.00
7.602	7.602 (1.054)	99	1997560			34.90- 94.90	63.25
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	2480390	100.000	91.308	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	2606554			73.18- 133.18	105.09
81 Benzene					CAS #: 71-43-2		
8.237	8.237 (0.906)	78	5241033	100.000	83.790	70.00- 130.00	100.00
8.237	8.237 (0.906)	77	1189231			0.00- 30.00	22.69
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	10519317	100.000	89.295	70.00- 130.00	100.00
8.293	8.293 (1.149)	56	3271139			0.00- 30.00	31.10
8.293	8.293 (1.149)	41	2695322			0.00- 30.00	25.62
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	2407175	100.000	81.014	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	714848			0.00- 30.00	29.70
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	568312	100.000	84.503	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	3941951			0.00- 30.00	693.62
8.680	8.680 (0.954)	71	1851294			0.00- 30.00	325.75
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	1948804	100.000	82.006	70.00- 130.00	100.00
9.482	9.482 (1.043)	130	1796574			62.02- 122.02	92.19
9.482	9.482 (1.043)	97	1234086			33.03- 93.03	63.33
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.731	9.731 (1.349)	83	3058019	100.000	89.411	70.00- 130.00	100.00
9.731	9.731 (1.349)	98	1395988			0.00- 30.00	45.65
9.731	9.731 (1.349)	55	2971305			0.00- 30.00	97.16
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	1877277	100.000	81.869	70.00- 130.00	100.00
10.007	10.007 (1.100)	62	1283800			37.83- 97.83	68.39
10.007	10.007 (1.100)	41	1186493			32.95- 92.95	63.20
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	1122122	100.000	94.868	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	907631			49.70- 109.70	80.89
10.228	10.228 (1.125)	57	290837			0.00- 30.00	25.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	3131576	100.000	86.769	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	1966215			33.18- 93.18	62.79
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	2350532	100.000	87.806	70.00- 130.00	100.00
11.500	11.500 (1.264)	77	747563			1.32- 61.32	31.80
11.500	11.500 (1.264)	39	1493347			35.06- 95.06	63.53
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	1504401	100.000	94.254	70.00- 130.00	100.00
11.832	11.832 (1.301)	43	4207114			0.00- 30.00	279.65
11.832	11.832 (1.301)	85	586266			0.00- 30.00	38.97
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	4784879	100.000	84.623	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	2822667			28.31- 88.31	58.99
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	2441960	100.000	92.542	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	766368			0.46- 60.46	31.38
12.689	12.689 (0.879)	39	1444906			30.65- 90.65	59.17
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	1553673	100.000	86.648	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	971158			31.04- 91.04	62.51
12.993	12.993 (0.900)	83	1410035			60.00- 120.00	90.75
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	1793931	100.000	82.693	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	1484171			52.58- 112.58	82.73
13.021	13.021 (0.902)	131	1428017			48.92- 108.92	79.60
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	2017551	100.000	103.71	70.00- 130.00	100.00
13.436	13.436 (0.931)	43	4099432			173.64- 233.64	203.19
13.436	13.436 (0.931)	100	352319			0.00- 30.00	17.46
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	2423301	100.000	90.559	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	1896293			0.00- 30.00	78.25
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	2661722	100.000	88.628	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	2512734			63.89- 123.89	94.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	3689453	100.000	84.002	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	1151487			1.43- 61.43	31.21
14.486	14.486 (1.004)	77	2459288			35.27- 95.27	66.66
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.013)	106	2208653	100.000	89.230	70.00- 130.00	100.00
14.624	14.624 (1.013)	91	7053203			0.00- 30.00	319.34
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	2699989	100.000	87.684	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	5550795			0.00- 30.00	205.59
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	2523879	100.000	90.346	70.00- 130.00	100.00
15.371	15.371 (1.065)	91	5465645			182.92- 242.92	216.56
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	4593209	100.000	101.19	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	2406097			23.11- 83.11	52.38
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	2256457	100.000	97.942	70.00- 130.00	100.00
15.648	15.648 (1.084)	171	1154958			20.18- 80.18	51.18
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	8089360	100.000	92.635	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	1876809			0.00- 30.00	23.20
15.841	15.841 (1.098)	51	984604			0.00- 30.00	12.17
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	3997504	100.000	90.138	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	2534553			34.57- 94.57	63.40
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	9973345	100.000	96.879	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	1952113			0.00- 30.00	19.57
16.366	16.366 (1.134)	105	348413			0.00- 30.00	3.49
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	8109623	100.000	98.370	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	2155049			0.00- 56.93	26.57
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	7689602	100.000	90.090	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	3256685			0.00- 30.00	42.35

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	6456958	100.000	92.831	70.00- 130.00	100.00
17.030	17.030 (1.180)	120	2558846			9.91- 69.91	39.63
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	3566428	100.000	86.093	70.00- 130.00	100.00
17.362	17.362 (1.203)	148	2286654			0.00- 30.00	64.12
17.334	17.334 (1.201)	111	1595266			0.00- 30.00	44.73
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	4467976	100.000	81.750	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	2769714			0.00- 30.00	61.99
17.445	17.445 (1.209)	111	2025848			0.00- 30.00	45.34
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	5836066	100.000	96.106	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	1133919			0.00- 30.00	19.43
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	3640853	100.000	81.873	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	2293647			32.10- 92.10	63.00
17.804	17.804 (1.234)	111	1846145			18.96- 78.96	50.71
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	3915744	100.000	83.934	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	3734503			64.98- 124.98	95.37
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	2598242	100.000	82.694	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	1638191			33.70- 93.70	63.05
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	9046804	100.000	87.561	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	1077608			0.00- 30.00	11.91

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: msd8.i
Lab File ID: 8112607.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26nov.b/t14qn26a.m
Misc Info: 200ppbv --> 100ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 14:51
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	298719	179231	418207	304154	1.82
88 1,4-Difluorobenze	1167702	700621	1634783	1227538	5.12
125 Chlorobenzene-d5	849922	509953	1189891	875862	3.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

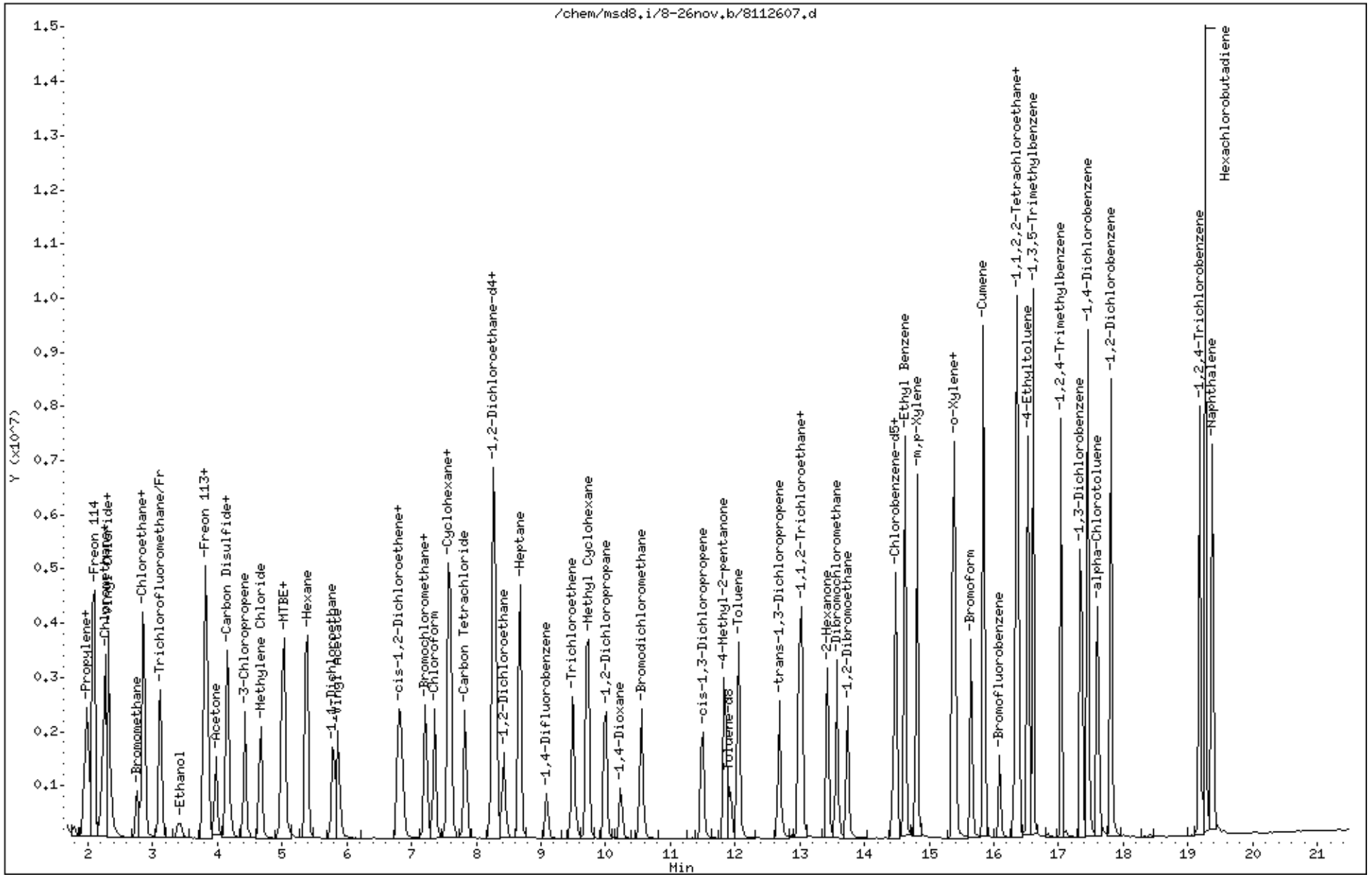
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd8.i/8-26nov.b/8112607.d
Date : 26-NOV-2007 15:19
Client ID: Level 6
Sample Info: 100mL #1576-90

Instrument: msd8.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-30nov.b/8113006.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 30-NOV-2007 12:36
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #1487-405
Misc Info : 200ppbv sp19b
Comment :
Method : /chem/msd8.i/8-30nov.b/t14qn26b.m
Meth Date : 30-Nov-2007 15:21 cbond Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.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

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.215 (1.000)	130	279894	25.0000		70.00- 130.00	100.00
7.215	7.215 (1.000)	128	211650			49.00- 109.00	75.62
7.215	7.215 (1.000)	49	573504			178.04- 238.04	204.90
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1037049	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	182282			0.00- 48.42	17.58
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	761986	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	509827			0.00- 30.00	66.91
7 Isobutane					CAS #: 75-28-5		
2.127	2.127 (0.295)	43	7845192	200.000	158.78	70.00- 130.00	100.00
2.127	2.127 (0.295)	42	2567423			0.00- 30.00	32.73
2.127	2.127 (0.295)	58	221748			0.00- 30.00	2.83
19 Pentane					CAS #: 109-66-0		
3.178	3.178 (0.440)	43	8969479	200.000	175.20	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.178	3.178 (0.440)	57	1240422			0.00- 30.00	13.83
3.178	3.178 (0.440)	72	779467			0.00- 30.00	8.69
25 Acrolein					CAS #: 107-02-8		
3.758	3.758 (0.521)	55	1372464	200.000	163.20	70.00- 130.00	100.00
3.758	3.758 (0.521)	56	1861217			0.00- 30.00	135.61
35 Acetonitrile					CAS #: 75-05-8		
4.505	4.505 (0.624)	40	940868	200.000	86.132	70.00- 130.00	100.00
4.532	4.532 (0.628)	41	1858327			0.00- 30.00	197.51
4.532	4.532 (0.628)	38	201445			0.00- 30.00	21.41
41 Acrylonitrile					CAS #: 107-13-1		
5.141	5.141 (0.713)	53	3283260	200.000	175.53	70.00- 130.00	100.00
5.141	5.141 (0.713)	52	2836661			0.00- 30.00	86.40
44 1-Pentene					CAS #: 109-67-1		
3.122	3.122 (0.433)	55	4793172	200.000	167.54	70.00- 130.00	100.00(T)
3.122	3.122 (0.433)	42	6430350			0.00- 30.00	134.16
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.482	3.482 (0.483)	74	1967446	200.000	163.59	70.00- 130.00	100.00(T)
3.482	3.482 (0.483)	59	3094841			0.00- 30.00	157.30
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.118	4.118 (0.571)	142	6988778	200.000	177.28	70.00- 130.00	100.00
4.118	4.118 (0.571)	127	2524019			0.00- 30.00	36.12
62 1-Hexene					CAS #: 592-41-6		
5.251	5.251 (0.728)	55	3062938	200.000	173.39	70.00- 130.00	100.00
5.251	5.251 (0.728)	41	4482715			0.00- 30.00	146.35
5.251	5.251 (0.728)	84	1079715			0.00- 30.00	35.25
63 Methyl Acrylate					CAS #: 96-33-3		
6.993	6.993 (0.969)	55	7010372	200.000	187.08	70.00- 130.00	100.00
6.993	6.993 (0.969)	85	920305			0.00- 30.00	13.13
6.993	6.993 (0.969)	58	591299			0.00- 30.00	8.43
90 Methyl Methacrylate					CAS #: 80-62-6		
10.256	10.256 (1.128)	41	4924863	200.000	190.98	70.00- 130.00	100.00
10.256	10.256 (1.128)	69	3026463			0.00- 30.00	61.45
10.256	10.256 (1.128)	100	1093019			0.00- 30.00	22.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.979	9.979 (1.097)	43	9425070	200.000	196.34	70.00- 130.00	100.00
9.979	9.979 (1.097)	58	681288			0.00- 30.00	7.23
9.979	9.979 (1.097)	86	1381522			0.00- 30.00	14.66
93 Ethyl Acrylate					CAS #: 140-88-5		
9.814	9.814 (1.079)	55	8013202	200.000	202.27	70.00- 130.00	100.00
9.814	9.814 (1.079)	99	430293			0.00- 30.00	5.37
9.814	9.814 (1.079)	45	719028			0.00- 30.00	8.97
96 Dibromomethane					CAS #: 74-95-3		
10.228	10.228 (1.125)	174	2208907	200.000	168.25	70.00- 130.00	100.00
10.228	10.228 (1.125)	93	2714635			0.00- 30.00	122.89
10.228	10.228 (1.125)	95	2251700			0.00- 30.00	101.94
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.422	16.422 (1.138)	89	1407971	200.000	227.64	70.00- 130.00	100.00(A)
16.422	16.422 (1.138)	53	2557173			0.00- 30.00	181.62
16.422	16.422 (1.138)	124	417407			0.00- 30.00	29.65
121 Alphamethylstyrene					CAS #: 98-83-9		
16.892	16.892 (1.171)	118	5044030	200.000	217.74	70.00- 130.00	100.00
16.892	16.892 (1.171)	103	3085766			0.00- 30.00	61.18
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.334	17.334 (1.201)	93	6871740	200.000	212.97	70.00- 130.00	100.00(A)
17.334	17.334 (1.201)	95	2152064			0.00- 30.00	31.32
17.334	17.334 (1.201)	63	5376238			0.00- 30.00	78.24
128 Nonane					CAS #: 111-84-2		
14.818	14.818 (1.027)	43	7736494	200.000	185.78	70.00- 130.00	100.00
14.818	14.818 (1.027)	57	6464923			0.00- 30.00	83.56
14.846	14.846 (1.029)	85	2126614			0.00- 30.00	27.49

QC Flag Legend

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

Report Date: 30-Nov-2007 15:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8113006.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-30nov.b/t14qn26b.m
Misc Info: 200ppbv sp19b

Calibration Date: 30-NOV-2007
Calibration Time: 12:06
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	263996	158398	369594	279894	6.02
88 1,4-Difluorobenze	1026380	615828	1436932	1037049	1.04
125 Chlorobenzene-d5	771026	462616	1079436	761986	-1.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

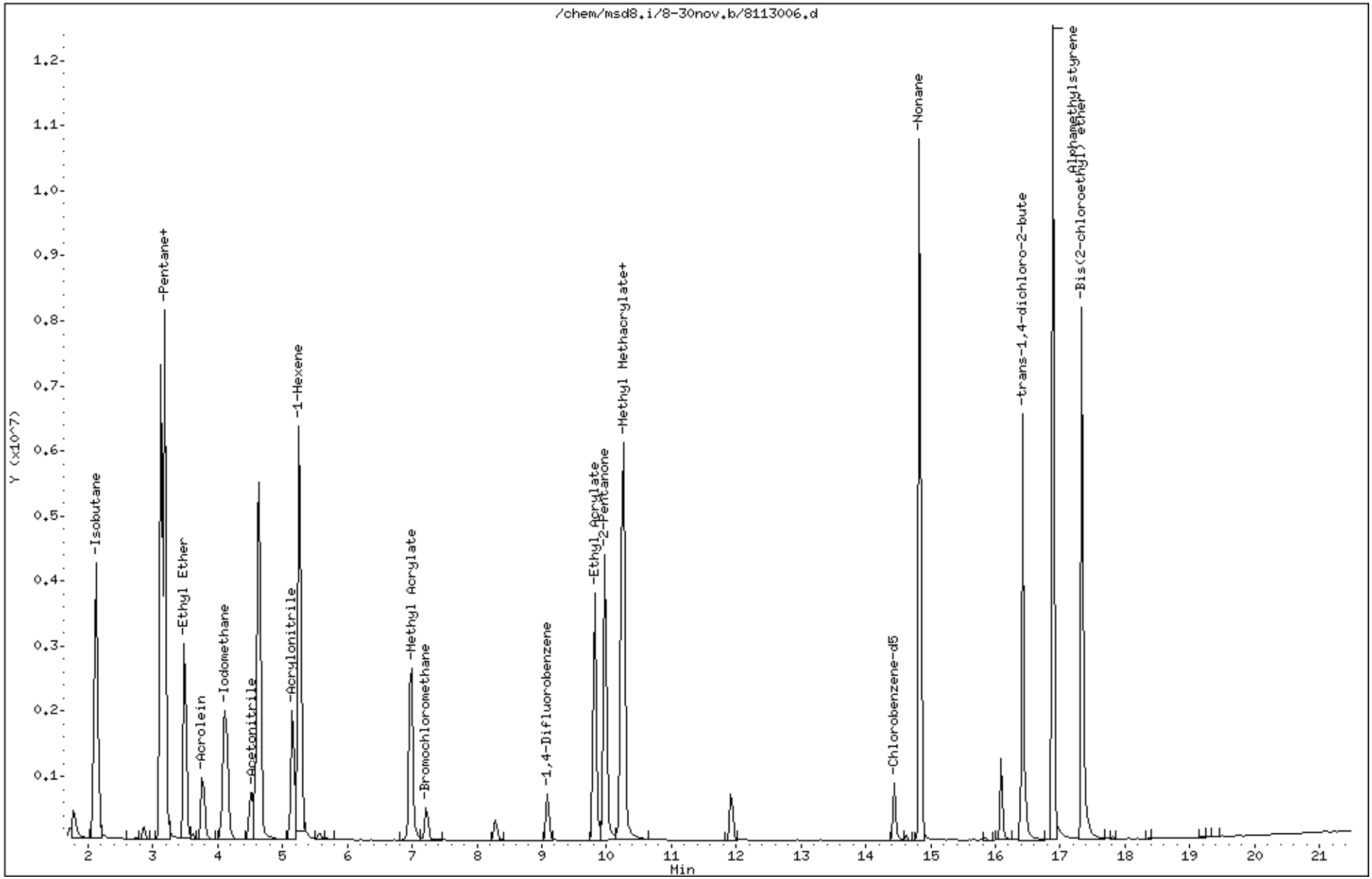
0188

Data File: /chem/msd8.i/8-30nov.b/8113006.d
Date : 30-NOV-2007 12:36
Client ID: Level 7
Sample Info: 200mL #1487-405

Instrument: msd8.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-27nov.b/8112707.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 27-NOV-2007 12:31
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #1576-375
Misc Info : 200ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 16:26 ctaylor Quant Type: ISTD
Cal Date : 27-NOV-2007 12:31 Cal File: 8112707.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp16a.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.215 (1.000)	130	295645	25.0000		70.00- 130.00	100.00
7.215	7.215 (1.000)	128	236366			46.66- 106.66	79.95
7.215	7.215 (1.000)	49	624177			176.55- 236.55	211.12
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1160860	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	223200			0.00- 47.78	19.23
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	849016	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	565428			0.00- 30.00	66.60
36 Cyclopentene					CAS #: 142-29-0		
4.477	4.477 (0.621)	67	8154837	200.000	162.76	70.00- 130.00	100.00
4.477	4.477 (0.621)	68	3201191			0.00- 30.00	39.26
4.477	4.477 (0.621)	53	1795558			0.00- 30.00	22.02
60 2,2-Dichloropropane					CAS #: 594-20-7		
6.744	6.744 (0.935)	77	4100521	200.000	229.60	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 2,2-Dichloropropane (continued)							
6.744	6.744 (0.935)	79	1309800			2.04- 62.04	31.94
6.744	6.744 (0.935)	97	772548			0.00- 30.00	18.84
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.906	7.906 (1.096)	110	1608614	200.000	156.63	70.00- 130.00	100.00
7.906	7.906 (1.096)	75	4652353			0.00- 30.00	289.22
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.270	13.270 (1.459)	76	4557722	200.000	164.23	70.00- 130.00	100.00
13.270	13.270 (1.459)	41	3827801			53.01- 113.01	83.98
13.270	13.270 (1.459)	78	1417422			0.00- 30.00	31.10
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.625	14.625 (1.013)	131	3247580	200.000	169.88	70.00- 130.00	100.00
14.625	14.625 (1.013)	117	2178155			0.00- 30.00	67.07
14.625	14.625 (1.013)	95	1413215			0.00- 30.00	43.52
139 Bromobenzene					CAS #: 108-86-1		
16.256	16.256 (1.126)	156	3523301	200.000	159.58	70.00- 130.00	100.00
16.228	16.228 (1.125)	77	7739566			191.97- 251.97	219.67
16.256	16.256 (1.126)	158	3393320			0.00- 30.00	96.31
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.366	16.366 (1.134)	110	2084389	200.000	171.42	70.00- 130.00	100.00
16.366	16.366 (1.134)	61	1643380			0.00- 30.00	78.84
16.366	16.366 (1.134)	112	1198436			0.00- 30.00	57.50
143 2-Chlorotoluene					CAS #: 95-49-8		
16.477	16.477 (1.142)	126	3052344	200.000	162.97	70.00- 130.00	100.00
16.477	16.477 (1.142)	91	11082504			314.53- 374.53	363.08
16.477	16.477 (1.142)	65	1184315			0.00- 30.00	38.80
146 4-Chlorotoluene					CAS #: 106-43-4		
16.643	16.643 (1.153)	126	3356493	200.000	161.55	70.00- 130.00	100.00
16.643	16.643 (1.153)	91	11837795			312.04- 372.04	352.68
16.643	16.643 (1.153)	63	1607235			0.00- 30.00	47.88
150 tert-Butylbenzene					CAS #: 98-06-6		
16.975	16.975 (1.176)	119	13040594	200.000	162.54	70.00- 130.00	100.00
16.975	16.975 (1.176)	134	2851436			0.00- 53.52	21.87
16.975	16.975 (1.176)	91	9124602			0.00- 30.00	69.97
151 Pentachloroethane					CAS #: 76-01-7		
17.030	17.030 (1.180)	167	2832055	200.000	177.25	70.00- 130.00	100.00
17.030	17.030 (1.180)	117	3267636			0.00- 30.00	115.38

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
152 sec-Butylbenzene					CAS #: 135-98-8		
17.224	17.224 (1.194)	105	18730438	200.000	175.20	70.00- 130.00	100.00
17.224	17.224 (1.194)	134	3209911			0.00- 48.96	17.14
17.224	17.224 (1.194)	91	2723648			0.00- 30.00	14.54
154 p-Cymene					CAS #: 99-87-6		
17.362	17.362 (1.203)	134	3370548	200.000	168.98	70.00- 130.00	100.00
17.362	17.362 (1.203)	119	14054003			378.75- 438.75	416.96
17.362	17.362 (1.203)	91	3996079			0.00- 30.00	118.56
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.472	17.472 (1.211)	120	4427768	200.000	169.38	70.00- 130.00	100.00
17.472	17.472 (1.211)	105	12571705			241.34- 301.34	283.93
17.472	17.472 (1.211)	77	1646279			0.00- 30.00	37.18
159 Butylbenzene					CAS #: 104-51-8		
17.777	17.777 (1.232)	134	4366952	200.000	182.08	70.00- 130.00	100.00
17.777	17.777 (1.232)	91	15666866			353.25- 413.25	358.76
17.777	17.777 (1.232)	92	9027674			0.00- 30.00	206.73
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.523	18.523 (1.284)	157	4009162	200.000	179.02	70.00- 130.00	100.00
18.523	18.523 (1.284)	75	5829334			110.05- 170.05	145.40
18.523	18.523 (1.284)	155	3155338			0.00- 30.00	78.70

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: msd8.i
Lab File ID: 8112707.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 200ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 12:01
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	299018	179411	418625	295645	-1.13
88 1,4-Difluorobenze	1170549	702329	1638769	1160860	-0.83
125 Chlorobenzene-d5	849625	509775	1189475	849016	-0.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

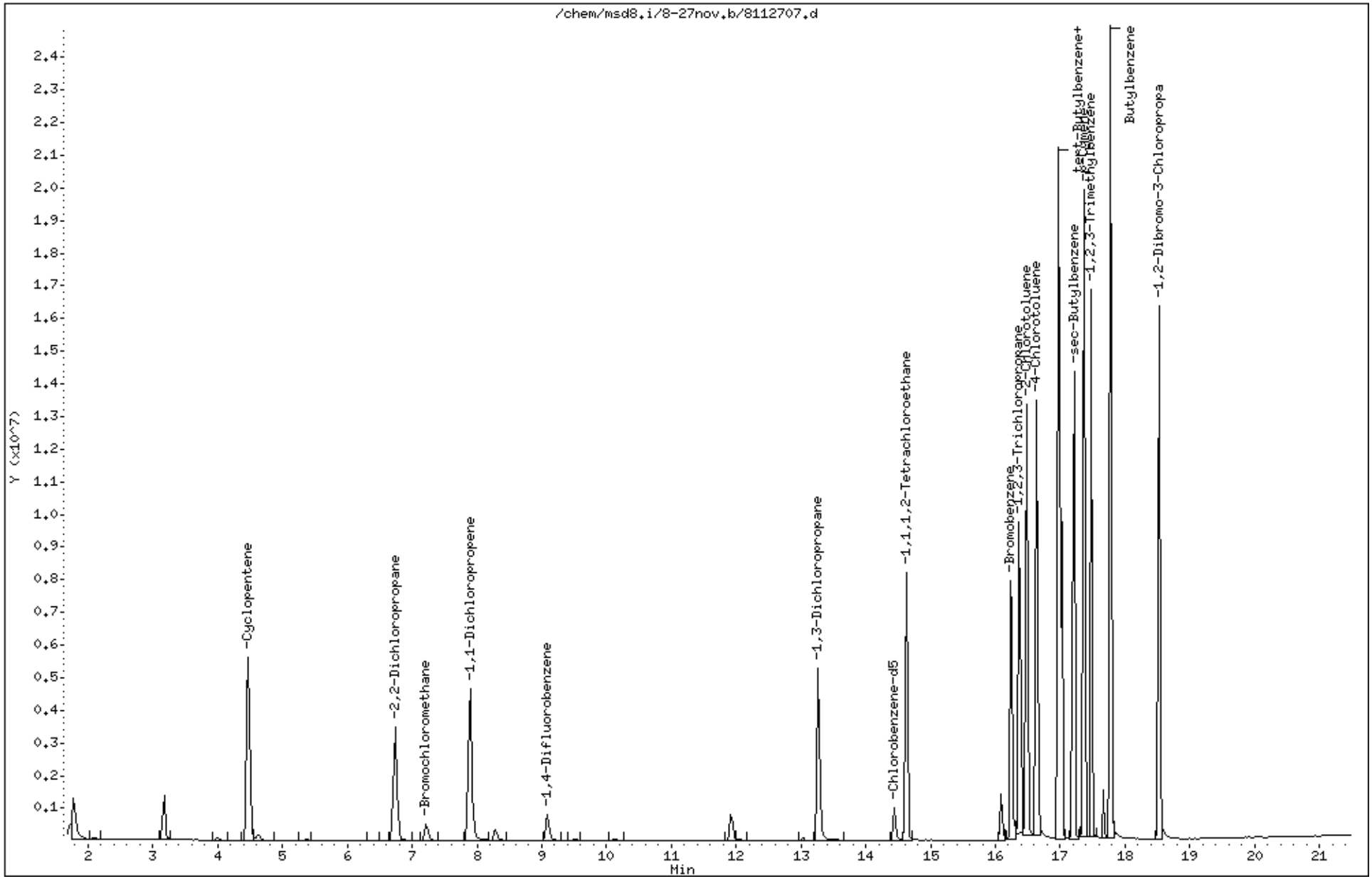
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0193

Data File: /chem/msd8.i/8-27nov.b/8112707.d
Date : 27-NOV-2007 12:31
Client ID: Level 7
Sample Info: 200mL #1576-375

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-27nov.b/8112704.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 27-NOV-2007 10:54
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #1576-134
Misc Info : 200ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 16:19 ctaylor Quant Type: ISTD
Cal Date : 27-NOV-2007 10:54 Cal File: 8112704.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21a.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	320497	25.0000		70.00- 130.00	100.00
7.214	7.214 (1.000)	128	242175			45.23- 105.23	75.56
7.214	7.214 (1.000)	49	660063			174.89- 234.89	205.95
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1240518	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	223837			0.00- 48.49	18.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	877813	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	580337			0.00- 30.00	66.11
1 Freon 152a					CAS #: 75-37-6		
1.961	1.961 (0.272)	65	2427890	200.000	203.15	70.00- 130.00	100.00(A)
1.989	1.989 (0.276)	51	11169030			0.00- 30.00	460.03
5 Freon134a					CAS #: 811-97-2		
1.906	1.906 (0.264)	83	2759157	200.000	191.23	70.00- 130.00	100.00
1.878	1.878 (0.260)	69	13146907			0.00- 30.00	476.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.122	3.122 (0.433)	67	5324074	200.000	192.05	70.00- 130.00	100.00
3.122	3.122 (0.433)	69	1685753			0.00- 30.00	31.66
3.150	3.150 (0.437)	35	72627			0.00- 30.00	1.36
20 Freon123a					CAS #: 354-23-4		
3.565	3.565 (0.494)	67	4520973	200.000	193.39	70.00- 130.00	100.00
3.592	3.592 (0.498)	117	2750555			0.00- 30.00	60.84
21 Freon123					CAS #: 306-83-2		
3.675	3.675 (0.509)	83	5974379	200.000	197.22	70.00- 130.00	100.00
3.675	3.675 (0.509)	133	865732			0.00- 30.00	14.49
3.675	3.675 (0.509)	85	4079799			0.00- 30.00	68.29
24 Freon 13					CAS #: 75-72-9		
1.823	1.823 (0.253)	85	1465666	200.000	182.04	70.00- 130.00	100.00
1.878	1.878 (0.260)	69	13139176			0.00- 30.00	896.46
1.823	1.823 (0.253)	87	455564			0.00- 30.00	31.08
27 Freon142b					CAS #: 75-68-3		
2.154	2.154 (0.299)	65	5990894	200.000	193.46	70.00- 130.00	100.00
2.154	2.154 (0.299)	45	1673323			0.00- 30.00	27.93
32 Freon143a					CAS #: 420-46-2		
1.850	1.850 (0.256)	65	1296266	200.000	178.44	70.00- 130.00	100.00
1.878	1.878 (0.260)	69	13139176			0.00- 30.00	1013.62
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	4190288	200.000	158.97	70.00- 130.00	100.00
4.809	4.809 (0.667)	41	1093335			0.00- 30.00	26.09
4.809	4.809 (0.667)	57	434052			0.00- 30.00	10.36
49 Isopropyl ether					CAS #: 108-20-3		
5.804	5.804 (0.805)	45	15342727	200.000	196.19	70.00- 130.00	100.00
5.804	5.804 (0.805)	87	3191658			0.00- 30.00	20.80
5.804	5.804 (0.805)	59	1484471			0.00- 30.00	9.68
52 1-Propanol					CAS #: 71-23-8		
5.998	5.998 (0.831)	42	803928	200.000	202.64	70.00- 130.00	100.00(A)
5.998	5.998 (0.831)	59	878493			0.00- 30.00	109.28
5.998	5.998 (0.831)	41	491975			0.00- 30.00	61.20
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.412	6.412 (0.889)	59	10780352	200.000	199.60	70.00- 130.00	100.00
6.412	6.412 (0.889)	87	3886949			0.00- 30.00	36.06
6.412	6.412 (0.889)	41	2085910			0.00- 30.00	19.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
61 Ethyl Acetate					CAS #: 141-78-6		
6.910	6.910 (0.958)	70	864486	200.000	198.33	70.00- 130.00	100.00
6.910	6.910 (0.958)	43	9851554			0.00- 30.00	1139.59
6.910	6.910 (0.958)	61	1208272			0.00- 30.00	139.77
78 Isobutanol					CAS #: 78-83-1		
8.265	8.265 (0.909)	43	3759491	200.000	201.56	70.00- 130.00	100.00(A)
8.265	8.265 (0.909)	41	2640849			0.00- 30.00	70.24
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.459	8.459 (1.172)	73	8082455	200.000	200.76	70.00- 130.00	100.00(A)
8.459	8.459 (1.172)	87	2011068			0.00- 30.00	24.88
8.459	8.459 (1.172)	55	2734106			0.00- 30.00	33.83
89 1-Butanol					CAS #: 71-36-3		
9.537	9.537 (1.049)	56	2945839	200.000	209.53	70.00- 130.00	100.00(A)
9.537	9.537 (1.049)	41	2118827			0.00- 30.00	71.93
9.537	9.537 (1.049)	43	1758721			0.00- 30.00	59.70
113 Butyl Acetate					CAS #: 123-86-4		
13.629	13.629 (1.499)	56	3848315	200.000	199.88	70.00- 130.00	100.00
13.629	13.629 (1.499)	73	1268807			0.00- 30.00	32.97
13.629	13.629 (1.499)	43	10231178			0.00- 30.00	265.86
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.809	16.809 (1.165)	57	13331498	200.000	208.25	70.00- 130.00	100.00(A)
16.809	16.809 (1.165)	85	9362254			42.99- 102.99	70.23
133 2-Heptanone					CAS #: 110-43-0		
15.620	15.620 (1.082)	58	5978458	200.000	202.12	70.00- 130.00	100.00(A)
15.620	15.620 (1.082)	43	10228498			0.00- 30.00	171.09
136 Cyclohexanone					CAS #: 108-94-1		
16.007	16.007 (1.109)	55	5399872	200.000	203.79	70.00- 130.00	100.00(A)
16.007	16.007 (1.109)	98	1803007			0.00- 30.00	33.39
16.007	16.007 (1.109)	42	3770323			0.00- 30.00	69.82

QC Flag Legend

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

Report Date: 28-Nov-2007 16:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112704.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-27nov.b/t14qn26a.m
Misc Info: 200ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 10:24
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	309096	185458	432734	320497	3.69
88 1,4-Difluorobenze	1212763	727658	1697868	1240518	2.29
125 Chlorobenzene-d5	882030	529218	1234842	877813	-0.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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/msd8.i/8-27nov.b/8112704.d

Date : 27-NOV-2007 10:54

Client ID: Level 7

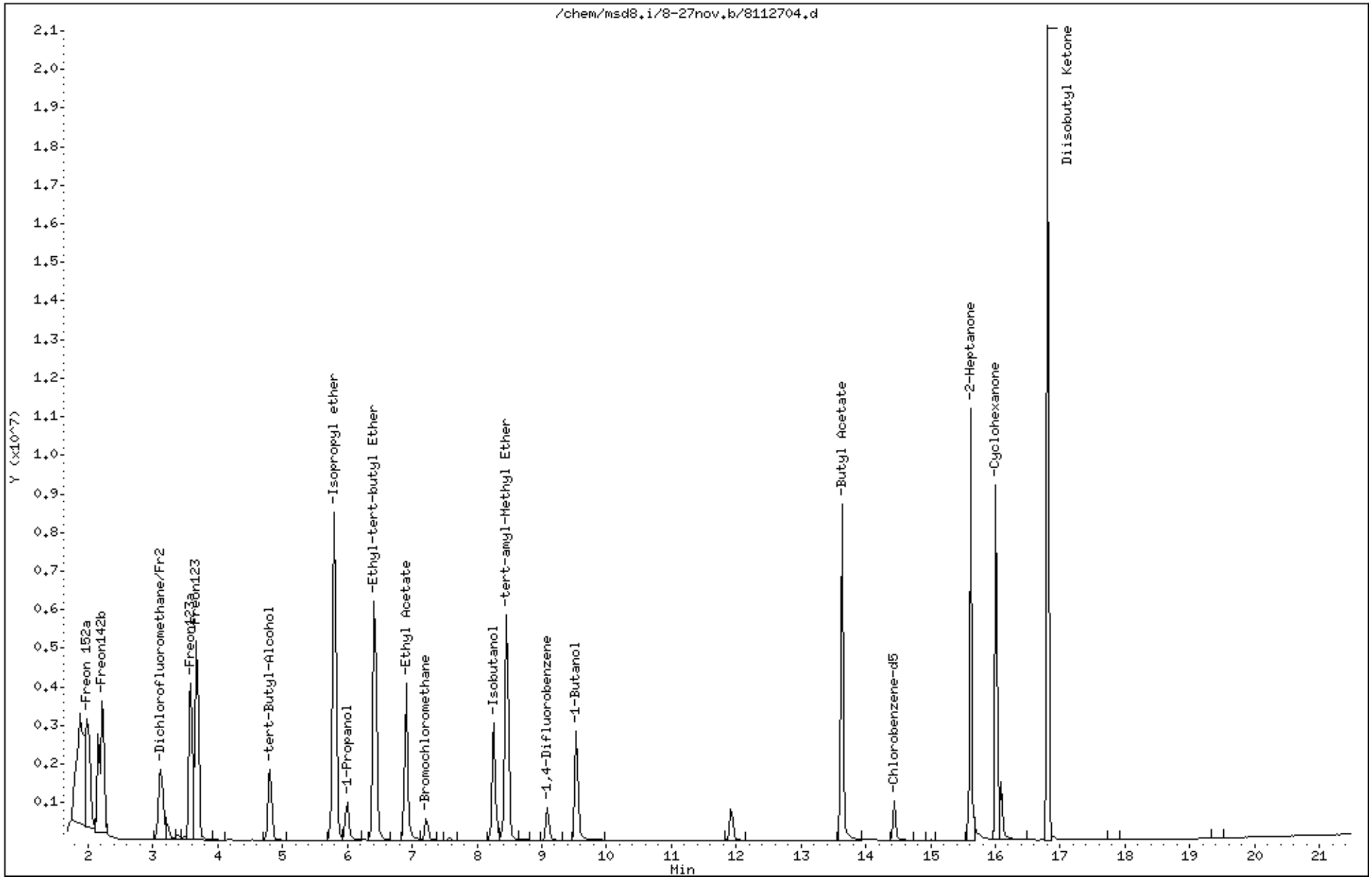
Sample Info: 200mL #1576-134

Column phase: RTx-624

Instrument: msd8.i

Operator: cb

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26nov.b/8112608.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 26-NOV-2007 15:49
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #1576-90
Misc Info : 200ppbv
Comment :
Method : /chem/msd8.i/8-26nov.b/t14qn26a.m
Meth Date : 28-Nov-2007 15:48 ctaylor Quant Type: ISTD
Cal Date : 26-NOV-2007 15:49 Cal File: 8112608.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.215 (1.000)	130	311038	25.0000		70.00- 130.00	100.00
7.215	7.215 (1.000)	128	248735			49.96- 109.96	79.97
7.215	7.215 (1.000)	49	657138			170.41- 230.41	211.27
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1231348	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	230538			0.00- 47.71	18.72
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	933678	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	619354			0.00- 30.00	66.33
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	574309	25.0000	28.241	70.00- 130.00	100.00
8.293	8.293 (1.149)	67	395731			0.00- 30.00	68.91
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1172514	25.0000	25.940	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	136653			0.00- 30.00	11.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	849758			0.00- 30.00	72.47
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	543324	25.0000	26.108	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	846703			135.23- 195.23	155.84
16.090	16.090 (1.115)	176	515909			65.72- 125.72	94.95
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	3521778	200.000	181.60	70.00- 130.00	100.00
1.933	1.933 (0.268)	42	2347169			0.00- 30.00	66.65
1.933	1.933 (0.268)	39	2406268			0.00- 30.00	68.33
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	7954027	200.000	166.78	70.00- 130.00	100.00
1.989	1.989 (0.276)	87	2522678			0.00- 30.00	31.72
6 Freon 114					CAS #: 76-14-2		
2.099	2.099 (0.291)	135	5864115	200.000	158.20	70.00- 130.00	100.00
2.099	2.099 (0.291)	137	1835997			0.48- 60.48	31.31
8 Chloromethane					CAS #: 74-87-3		
2.210	2.210 (0.306)	50	3966383	200.000	170.24	70.00- 130.00	100.00(M)
2.321	2.321 (0.322)	52	1739904			0.00- 30.00	43.87
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	930484	200.000	171.44	70.00- 130.00	100.00
2.265	2.265 (0.314)	43	7645182			0.00- 30.00	821.63
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.348 (0.325)	62	4376240	200.000	166.65	70.00- 130.00	100.00
2.348	2.348 (0.325)	64	1280132			0.00- 30.00	29.25
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.322)	54	3807806	200.000	164.84	70.00- 130.00	100.00
2.321	2.321 (0.322)	39	3860123			0.00- 30.00	101.37
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	3070263	200.000	180.66	70.00- 130.00	100.00
2.763	2.763 (0.383)	96	2884543			63.81- 123.81	93.95
16 Chloroethane					CAS #: 75-00-3		
2.874	2.874 (0.398)	64	2196577	200.000	185.14	70.00- 130.00	100.00
2.874	2.874 (0.398)	49	628135			0.00- 30.00	28.60
2.874	2.874 (0.398)	66	716903			0.00- 30.00	32.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	6221963	200.000	177.92	70.00- 130.00	100.00
2.874	2.874 (0.398)	57	3992307			0.00- 30.00	64.16
2.874	2.874 (0.398)	72	377113			0.00- 30.00	6.06
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	8506831	200.000	167.74	70.00- 130.00	100.00
3.122	3.122 (0.433)	103	5367170			35.69- 95.69	63.09
23 Ethanol					CAS #: 64-17-5		
3.427	3.427 (0.475)	45	1580733	200.000	162.59	70.00- 130.00	100.00
3.427	3.427 (0.475)	43	300708			0.00- 30.00	19.02
3.427	3.427 (0.475)	46	648859			0.00- 30.00	41.05
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	4663339	200.000	163.80	70.00- 130.00	100.00
3.814	3.814 (0.529)	153	2951385			33.61- 93.61	63.29
3.814	3.814 (0.529)	101	6706363			114.18- 174.18	143.81
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	6085306	200.000	175.27	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	3323205			27.60- 87.60	54.61
3.841	3.841 (0.532)	98	2111842			6.05- 66.05	34.70
30 Acetone					CAS #: 67-64-1		
3.980	3.980 (0.552)	58	2241321	200.000	183.57	70.00- 130.00	100.00
3.980	3.980 (0.552)	43	7124811			0.00- 30.00	317.88
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	11476927	200.000	177.62	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	8437189	200.000	198.21	70.00- 130.00	100.00
4.173	4.173 (0.578)	43	1618014			0.00- 30.00	19.18
4.173	4.173 (0.578)	59	304049			0.00- 30.00	3.60
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	1836761	200.000	197.18	70.00- 130.00	100.00
4.422	4.422 (0.613)	41	6384971			0.00- 30.00	347.62
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	5127142	200.000	170.50	70.00- 130.00	100.00
4.671	4.671 (0.647)	84	3170045			32.58- 92.58	61.83
4.671	4.671 (0.647)	51	1488575			0.00- 30.00	29.03
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	5701490	200.000	171.28	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
43 MTBE (continued)							
5.003	5.003 (0.693)	57	1585976			0.00- 58.28	27.82
5.003	5.003 (0.693)	41	1618601			0.00- 30.00	28.39
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	3851083	200.000	171.51	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	6218879			131.28- 191.28	161.48
5.030	5.030 (0.697)	98	2393573			0.00- 30.00	62.15
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	7732210	200.000	183.70	70.00- 130.00	100.00
5.362	5.362 (0.743)	43	5125052			0.00- 30.00	66.28
5.390	5.390 (0.747)	86	1141952			0.00- 30.00	14.77
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	7390180	200.000	183.82	70.00- 130.00	100.00
5.777	5.777 (0.801)	65	2168186			0.46- 60.46	29.34
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	973818	200.000	217.01	70.00- 130.00	100.00(A)
5.860	5.860 (0.812)	43	12258050			0.00- 30.00	1258.76
5.860	5.860 (0.812)	42	912552			0.00- 30.00	93.71
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	5184569	200.000	170.69	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	3430959			38.44- 98.44	66.18
6.800	6.800 (0.942)	98	2169310			14.66- 74.66	41.84
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	1828899	200.000	188.00	70.00- 130.00	100.00
6.827	6.827 (0.946)	43	9672977			489.89- 549.89	528.90
6.827	6.827 (0.946)	57	684216			0.00- 30.00	37.41
67 Tetrahydrofuran					CAS #: 109-99-9		
7.215	7.215 (1.000)	42	5345383	200.000	171.44	70.00- 130.00	100.00
7.215	7.215 (1.000)	71	1607718			0.56- 60.56	30.08
7.215	7.215 (1.000)	72	1744964			0.00- 30.00	32.64
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	6659879	200.000	177.19	70.00- 130.00	100.00
7.353	7.353 (1.019)	85	4243261			35.21- 95.21	63.71
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	5124962	200.000	172.96	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	7057165			103.12- 163.12	137.70
7.574	7.574 (1.050)	41	3879268			44.68- 104.68	75.69

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		
7.602	7.602 (1.054)	97	6435924	200.000	185.76	70.00- 130.00	100.00
7.602	7.602 (1.054)	99	4081451			34.90- 94.90	63.42
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	5186410	200.000	188.79	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	5366058			73.18- 133.18	103.46
81 Benzene					CAS #: 71-43-2		
8.238	8.238 (0.906)	78	10785264	200.000	176.02	70.00- 130.00	100.00
8.238	8.238 (0.906)	77	2415801			0.00- 30.00	22.40
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	22221456	200.000	186.88	70.00- 130.00	100.00
8.293	8.293 (1.149)	56	6781653			0.00- 30.00	30.52
8.293	8.293 (1.149)	41	5545439			0.00- 30.00	24.96
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	4925094	200.000	170.17	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	1487811			0.00- 30.00	30.21
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	1152173	200.000	175.05	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	8137036			0.00- 30.00	706.23
8.680	8.680 (0.954)	71	3773886			0.00- 30.00	327.55
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	3946998	200.000	170.46	70.00- 130.00	100.00
9.482	9.482 (1.043)	130	3620210			62.02- 122.02	91.72
9.482	9.482 (1.043)	97	2521437			33.03- 93.03	63.88
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.731	9.731 (1.349)	83	6302487	200.000	183.22	70.00- 130.00	100.00
9.731	9.731 (1.349)	98	2824918			0.00- 30.00	44.82
9.703	9.703 (1.345)	55	6114803			0.00- 30.00	97.02
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	3895406	200.000	173.79	70.00- 130.00	100.00
10.007	10.007 (1.100)	62	2691895			37.83- 97.83	69.10
9.979	9.979 (1.097)	41	2436702			32.95- 92.95	62.55
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	2365959	200.000	199.53	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	1914523			49.70- 109.70	80.92
10.228	10.228 (1.125)	57	609971			0.00- 30.00	25.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	6465209	200.000	181.83	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	4068883			33.18- 93.18	62.94
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	4999171	200.000	188.34	70.00- 130.00	100.00
11.500	11.500 (1.264)	77	1556361			1.32- 61.32	31.13
11.473	11.473 (1.261)	39	3106287			35.06- 95.06	62.14
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	3196665	200.000	199.72	70.00- 130.00	100.00
11.832	11.832 (1.301)	43	8909906			0.00- 30.00	278.73
11.832	11.832 (1.301)	85	1260584			0.00- 30.00	39.43
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	9965420	200.000	179.33	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	5813530			28.31- 88.31	58.34
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	5146266	200.000	185.59	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	1591309			0.46- 60.46	30.92
12.689	12.689 (0.879)	39	3058003			30.65- 90.65	59.42
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	3217106	200.000	172.87	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	1984022			31.04- 91.04	61.67
12.993	12.993 (0.900)	83	2923886			60.00- 120.00	90.89
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	3665761	200.000	164.19	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	3078705			52.58- 112.58	83.99
13.021	13.021 (0.902)	131	2913303			48.92- 108.92	79.47
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	4439633	200.000	211.10	70.00- 130.00	100.00(A)
13.436	13.436 (0.931)	43	8899926			173.64- 233.64	200.47
13.436	13.436 (0.931)	100	745048			0.00- 30.00	16.78
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	4990364	200.000	178.67	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	3909236			0.00- 30.00	78.34
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	5589851	200.000	178.38	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	5101101			63.89- 123.89	91.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	7622680	200.000	168.01	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	2359288			1.43- 61.43	30.95
14.486	14.486 (1.004)	77	5154746			35.27- 95.27	67.62
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	4504822	200.000	175.00	70.00- 130.00	100.00
14.625	14.625 (1.013)	91	15136137			0.00- 30.00	336.00
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	5591520	200.000	174.66	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	11782618			0.00- 30.00	210.72
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	5149282	200.000	176.90	70.00- 130.00	100.00
15.371	15.371 (1.065)	91	11361780			182.92- 242.92	220.65
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	9588845	200.000	198.47	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	5039672			23.11- 83.11	52.56
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	4586464	200.000	188.83	70.00- 130.00	100.00
15.648	15.648 (1.084)	171	2331135			20.18- 80.18	50.83
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	17042560	200.000	185.70	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	3780004			0.00- 30.00	22.18
15.841	15.841 (1.098)	51	2037004			0.00- 30.00	11.95
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	8269532	200.000	178.65	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	5220443			34.57- 94.57	63.13
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	17701364	200.000	166.68	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	3948572			0.00- 30.00	22.31
16.366	16.366 (1.134)	105	676579			0.00- 30.00	3.82
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	17315785	200.000	197.52	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	4583253			0.00- 56.93	26.47
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	16033589	200.000	179.78	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	6607682			0.00- 30.00	41.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	13462053	200.000	184.39	70.00- 130.00	100.00
17.030	17.030 (1.180)	120	5204966			9.91- 69.91	38.66
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	7178622	200.000	167.80	70.00- 130.00	100.00
17.362	17.362 (1.203)	148	4462074			0.00- 30.00	62.16
17.334	17.334 (1.201)	111	3226740			0.00- 30.00	44.95
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	9041112	200.000	161.20	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	5576411			0.00- 30.00	61.68
17.445	17.445 (1.209)	111	3692469			0.00- 30.00	40.84
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	12941168	200.000	199.93	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	2372137			0.00- 30.00	18.33
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	7525240	200.000	164.40	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	4640287			32.10- 92.10	61.66
17.804	17.804 (1.234)	111	3793959			18.96- 78.96	50.42
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	7778208	200.000	163.53	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	7434476			64.98- 124.98	95.58
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	5179114	200.000	161.98	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	3299810			33.70- 93.70	63.71
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	18428716	200.000	172.97	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	2153947			0.00- 30.00	11.69

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Report Date: 28-Nov-2007 15:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112608.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26nov.b/t14qn26a.m
Misc Info: 200ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 14:51
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	298719	179231	418207	311038	4.12
88 1,4-Difluorobenze	1167702	700621	1634783	1231348	5.45
125 Chlorobenzene-d5	849922	509953	1189891	933678	9.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

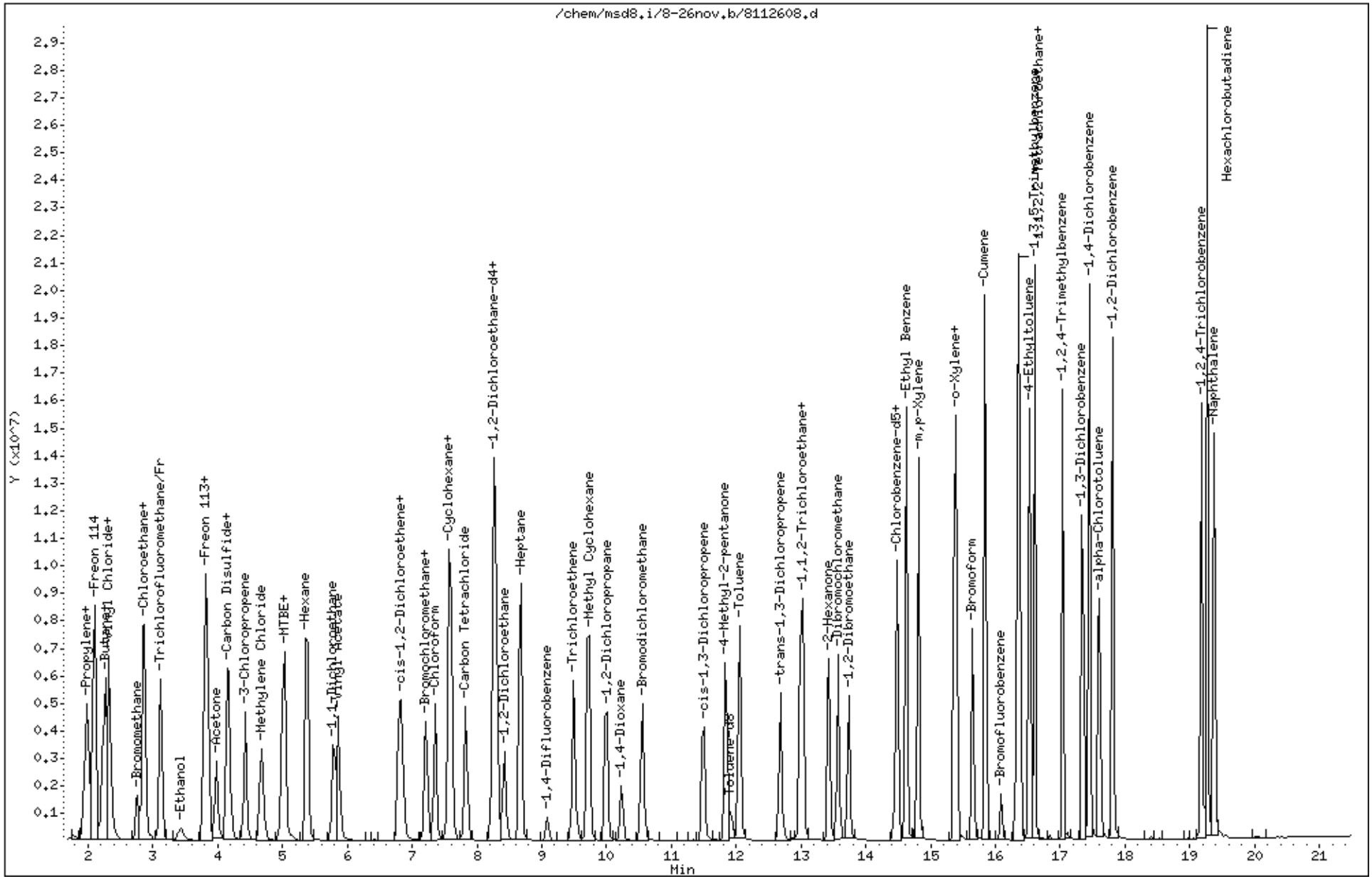
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0208

Data File: /chem/msd8.i/8-26nov.b/8112608.d
Date : 26-NOV-2007 15:49
Client ID: Level 7
Sample Info: 200mL #1576-90

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0712304-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 09:34 AM**

Compound	%Recovery
Freon 12	87
Freon 114	89
Vinyl Chloride	86
Bromomethane	86
Chloroethane	95
Freon 11	95
1,1-Dichloroethene	92
Freon 113	91
Methylene Chloride	87
1,1-Dichloroethane	92
cis-1,2-Dichloroethene	85
Chloroform	93
1,1,1-Trichloroethane	101
Carbon Tetrachloride	112
Benzene	81
1,2-Dichloroethane	93
Trichloroethene	84
1,2-Dichloropropane	79
cis-1,3-Dichloropropene	83
Toluene	83
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	90
Tetrachloroethene	88
1,2-Dibromoethane (EDB)	88
Chlorobenzene	84
Ethyl Benzene	86
m,p-Xylene	86
o-Xylene	88
Styrene	91
1,1,2,2-Tetrachloroethane	84
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	81
alpha-Chlorotoluene	86
1,2-Dichlorobenzene	86
1,3-Butadiene	82
Hexane	94
Cyclohexane	83

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0712304-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 09:34 AM**	

Compound	%Recovery
Heptane	86
Bromodichloromethane	90
Dibromochloromethane	94
Cumene	93
Propylbenzene	92
Chloromethane	87
1,2,4-Trichlorobenzene	77
Hexachlorobutadiene	93
Acetone	90
Carbon Disulfide	87
2-Propanol	94
trans-1,2-Dichloroethene	89
2-Butanone (Methyl Ethyl Ketone)	87
Tetrahydrofuran	79
1,4-Dioxane	89
4-Methyl-2-pentanone	90
2-Hexanone	102
Bromoform	99
4-Ethyltoluene	92
Ethanol	80
Methyl tert-butyl ether	114
3-Chloropropene	93
2,2,4-Trimethylpentane	87
Naphthalene	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 21-DEC-2007 09:34
Lab File ID: 8122103.d Init. Cal. Date(s): 26-NOV-2007 30-NOV-2007
Analysis Type: AIR Init. Cal. Times: 13:28 12:36
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-21dec.b/t14qn26b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 82 1,2-Dichloroethane-d4	1.63184	1.84386	0.010	-12.99241	30.00000	Averaged
$ 104 Toluene-d8	0.91638	0.90710	0.010	1.01270	30.00000	Averaged
$ 140 Bromofluorobenzene	0.55175	0.57835	0.010	-4.82020	30.00000	Averaged
3 Propylene	1.55871	1.37589	0.010	11.72921	30.00000	Averaged
4 Dichlorodifluoromethane/Fr1	3.83335	3.33012	0.010	13.12780	30.00000	Averaged
6 Freon 114	2.97927	2.65985	0.010	10.72130	30.00000	Averaged
8 Chloromethane	1.87270	1.62668	0.010	13.13718	30.00000	Averaged
11 Vinyl Chloride	2.11064	1.80892	0.010	14.29542	30.00000	Averaged
10 1,3-Butadiene	1.85673	1.53036	0.010	17.57762	30.00000	Averaged
13 Bromomethane	1.36592	1.17837	0.010	13.73095	30.00000	Averaged
16 Chloroethane	0.95363	0.90861	0.010	4.72057	30.00000	Averaged
18 Trichlorofluoromethane/Fr11	4.07609	3.87502	0.010	4.93312	30.00000	Averaged
23 Ethanol	0.78144	0.62758	0.010	19.69007	30.00000	Averaged
28 Freon 113	2.28826	2.08385	0.010	8.93334	30.00000	Averaged
29 1,1-Dichloroethene	2.79055	2.57471	0.010	7.73458	30.00000	Averaged
30 Acetone	0.98137	0.87862	0.010	10.47064	30.00000	Averaged
34 2-Propanol	3.42134	3.20120	0.010	6.43423	30.00000	Averaged
33 Carbon Disulfide	5.19356	4.53218	0.010	12.73474	30.00000	Averaged
37 3-Chloropropene	0.74871	0.69827	0.010	6.73671	30.00000	Averaged
40 Methylene Chloride	2.41699	2.10624	0.010	12.85708	30.00000	Averaged
43 MTBE	2.67559	3.04573	0.010	-13.83407	30.00000	Averaged
45 trans-1,2-Dichloroethene	1.80473	1.60197	0.010	11.23536	30.00000	Averaged
46 Hexane	3.38312	3.18526	0.010	5.84848	30.00000	Averaged
54 1,1-Dichloroethane	3.23143	2.97656	0.010	7.88723	30.00000	Averaged
55 Vinyl Acetate	0.36069	0.36238	0.010	-0.47110	30.00000	Averaged
65 2-Butanone	0.78192	0.68172	0.010	12.81542	30.00000	Averaged
64 cis-1,2-Dichloroethene	2.44132	2.08107	0.010	14.75638	30.00000	Averaged
67 Tetrahydrofuran	2.50606	1.98275	0.010	20.88196	30.00000	Averaged
70 Chloroform	3.01193	2.79410	0.010	7.23227	30.00000	Averaged
75 1,1,1-Trichloroethane	2.78473	2.81516	0.010	-1.09261	30.00000	Averaged
73 Cyclohexane	2.38154	1.98294	0.010	16.73706	30.00000	Averaged
77 Carbon Tetrachloride	2.20809	2.47764	0.010	-12.20697	30.00000	Averaged
80 2,2,4-Trimethylpentane	9.55752	8.29502	0.010	13.20942	30.00000	Averaged
81 Benzene	1.27039	1.02842	0.010	19.04672	30.00000	Averaged
83 1,2-Dichloroethane	0.58761	0.54836	0.010	6.67977	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 21-DEC-2007 09:34
Lab File ID: 8122103.d Init. Cal. Date(s): 26-NOV-2007 30-NOV-2007
Analysis Type: AIR Init. Cal. Times: 13:28 12:36
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-21dec.b/t14qn26b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
85 Heptane	0.13363	0.11464	0.010	14.21476	30.00000	Averaged
94 Trichloroethene	0.47010	0.39422	0.010	16.14038	30.00000	Averaged
97 1,2-Dichloropropane	0.45507	0.35916	0.010	21.07595	30.00000	Averaged
98 1,4-Dioxane	0.24075	0.21347	0.010	11.32988	30.00000	Averaged
100 Bromodichloromethane	0.72191	0.65313	0.010	9.52781	30.00000	Averaged
102 cis-1,3-Dichloropropene	0.53891	0.44988	0.010	16.52035	30.00000	Averaged
103 4-Methyl-2-pentanone	0.32497	0.29173	0.010	10.22939	30.00000	Averaged
105 Toluene	1.12824	0.94168	0.010	16.53547	30.00000	Averaged
108 trans-1,3-Dichloropropene	0.74248	0.69292	0.010	6.67492	30.00000	Averaged
110 1,1,2-Trichloroethane	0.49829	0.44784	0.010	10.12485	30.00000	Averaged
112 Tetrachloroethene	0.59781	0.52817	0.010	11.64927	30.00000	Averaged
114 2-Hexanone	0.56311	0.57525	0.010	-2.15627	30.00000	Averaged
116 Dibromochloromethane	0.74785	0.70074	0.010	6.29971	30.00000	Averaged
117 1,2-Dibromoethane	0.83908	0.74261	0.010	11.49730	30.00000	Averaged
126 Chlorobenzene	1.21480	1.02533	0.010	15.59685	30.00000	Averaged
129 Ethyl Benzene	0.68928	0.59022	0.010	14.37160	30.00000	Averaged
130 m,p-Xylene	0.85719	0.73614	0.010	14.12214	30.00000	Averaged
132 o-Xylene	0.77938	0.68586	0.010	11.99923	30.00000	Averaged
134 Styrene	1.24843	1.13735	0.010	8.89731	30.00000	Averaged
135 Bromoform	0.65034	0.64458	0.010	0.88595	30.00000	Averaged
144 1,1,2,2-Tetrachloroethane	1.23940	1.03711	0.010	16.32173	30.00000	Averaged
147 4-Ethyltoluene	2.34730	2.16108	0.010	7.93325	30.00000	Averaged
148 1,3,5-Trimethylbenzene	2.38800	2.09913	0.010	12.09702	30.00000	Averaged
153 1,2,4-Trimethylbenzene	1.95484	1.79849	0.010	7.99803	30.00000	Averaged
156 1,3-Dichlorobenzene	1.14552	0.96648	0.010	15.62983	30.00000	Averaged
157 1,4-Dichlorobenzene	1.50175	1.21482	0.010	19.10652	30.00000	Averaged
158 alpha-Chlorotoluene	1.73317	1.49465	0.010	13.76205	30.00000	Averaged
161 1,2-Dichlorobenzene	1.22566	1.05046	0.010	14.29484	30.00000	Averaged
167 1,2,4-Trichlorobenzene	1.27357	0.97932	0.010	23.10471	30.00000	Averaged
168 Hexachlorobutadiene	0.85614	0.79326	0.010	7.34406	30.00000	Averaged
145 Propylbenzene	2.84367	2.63302	0.010	7.40753	30.00000	Averaged
137 Cumene	2.41085	2.24938	0.010	6.69746	30.00000	Averaged
169 Naphthalene	2.85273	2.41461	0.010	15.35796	30.00000	Averaged
9 Butane	0.43624	0.39273	0.010	9.97441	30.00000	Averaged
15 Isopentane	2.81081	2.66993	0.010	5.01179	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 21-DEC-2007 09:34
Lab File ID: 8122103.d Init. Cal. Date(s): 26-NOV-2007 30-NOV-2007
Analysis Type: AIR Init. Cal. Times: 13:28 12:36
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-21dec.b/t14qn26b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
95 Methyl Cyclohexane	2.76484	2.34478	0.010	15.19278	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21dec.b/8122103.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 21-DEC-2007 09:34
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1443-376
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Meth Date : 21-Dec-2007 09:43 cbond Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane					CAS #: 74-97-5			
7.214	7.214 (1.000)	130	215724	25.0000		80.00- 120.00		100.00
7.242	7.242 (1.000)	128	173712			50.53- 110.53		80.53
7.214	7.214 (1.000)	49	440045			173.99- 233.99		203.99
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
9.095	9.095 (1.000)	114	850513	25.0000		80.00- 120.00		100.00
9.095	9.095 (1.000)	88	166690			0.00- 49.60		19.60
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.431	14.431 (1.000)	117	596566	25.0000		80.00- 120.00		100.00
14.431	14.431 (1.000)	82	411158			0.00- 30.00		68.92
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.293	8.293 (1.149)	65	397765	25.0000	28.248	80.00- 120.00		100.00
8.293	8.293 (1.149)	67	216456			28.82- 88.82		54.42
$ 104 Toluene-d8					CAS #: 2037-26-5			
11.915	11.915 (1.310)	98	771498	25.0000	24.747	80.00- 120.00		100.00
11.915	11.915 (1.310)	70	91888			0.00- 40.83		11.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	568240			45.72- 105.72	73.65
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	345023	25.0000	26.205	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	551048			129.71- 189.71	159.71
16.090	16.090 (1.115)	176	334892			67.06- 127.06	97.06
3 Propylene					CAS #: 115-07-1		
1.961	1.961 (0.272)	41	593625	50.0000	44.135	80.00- 120.00	100.00
1.961	1.961 (0.272)	42	405443			0.00- 30.00	68.30
1.961	1.961 (0.272)	39	422229			0.00- 30.00	71.13
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.016	2.016 (0.279)	85	1436773	50.0000	43.436	80.00- 120.00	100.00
2.016	2.016 (0.279)	87	457739			0.00- 30.00	31.86
6 Freon 114					CAS #: 76-14-2		
2.099	2.099 (0.291)	135	1147588	50.0000	44.639	80.00- 120.00	100.00
2.099	2.099 (0.291)	137	361675			1.52- 61.52	31.52
8 Chloromethane					CAS #: 74-87-3		
2.238	2.238 (0.310)	50	701826	50.0000	43.431	80.00- 120.00	100.00
2.238	2.238 (0.310)	52	216424			0.00- 30.00	30.84
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.348 (0.325)	62	780454	50.0000	42.852	80.00- 120.00	100.00
2.348	2.348 (0.325)	64	233506			0.00- 30.00	29.92
10 1,3-Butadiene					CAS #: 106-99-0		
2.348	2.348 (0.325)	54	660272	50.0000	41.211	80.00- 120.00	100.00
2.348	2.348 (0.325)	39	717639			0.00- 30.00	108.69
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	508405	50.0000	43.134	80.00- 120.00	100.00
2.763	2.763 (0.383)	96	479815			64.38- 124.38	94.38
16 Chloroethane					CAS #: 75-00-3		
2.874	2.874 (0.398)	64	392020	50.0000	47.640	80.00- 120.00	100.00
2.874	2.874 (0.398)	49	113062			0.00- 30.00	28.84
2.874	2.874 (0.398)	66	117561			0.00- 30.00	29.99
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	1671868	50.0000	47.533	80.00- 120.00	100.00
3.122	3.122 (0.433)	103	1068170			33.89- 93.89	63.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.426	3.426 (0.475)	45	270767	50.0000	40.155	80.00- 120.00	100.00
3.426	3.426 (0.475)	43	57003			0.00- 30.00	21.05
3.399	3.399 (0.471)	46	110662			0.00- 30.00	40.87
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	899071	50.0000	45.533	80.00- 120.00	100.00
3.814	3.814 (0.529)	153	569307			33.32- 93.32	63.32
3.814	3.814 (0.529)	101	1274006			111.70- 171.70	141.70
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	1110855	50.0000	46.133	80.00- 120.00	100.00
3.869	3.869 (0.536)	96	604643			24.43- 84.43	54.43
3.869	3.869 (0.536)	98	390643			5.17- 65.17	35.17
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	379078	50.0000	44.765	80.00- 120.00	100.00
3.979	3.979 (0.552)	43	1230939			0.00- 30.00	324.72
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	1381151	50.0000	46.783	80.00- 120.00	100.00
4.173	4.173 (0.578)	43	294261			0.00- 30.00	21.31
4.173	4.173 (0.578)	59	48305			0.00- 30.00	3.50
33 Carbon Disulfide					CAS #: 75-15-0		
4.173	4.173 (0.578)	76	1955398	50.0000	43.633	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.450	4.450 (0.617)	76	301267	50.0000	46.632	80.00- 120.00	100.00
4.450	4.450 (0.617)	41	1103093			0.00- 30.00	366.15
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	908732	50.0000	43.571	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	563282			31.99- 91.99	61.99
4.671	4.671 (0.647)	51	268111			0.00- 30.00	29.50
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	1314074	50.0000	56.917	80.00- 120.00	100.00
5.003	5.003 (0.693)	57	341666			0.00- 56.00	26.00
5.003	5.003 (0.693)	41	391405			0.00- 30.00	29.79
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.058	5.058 (0.701)	96	691165	50.0000	44.382	80.00- 120.00	100.00
5.058	5.058 (0.701)	61	1088459			127.48- 187.48	157.48
5.058	5.058 (0.701)	98	435002			0.00- 30.00	62.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	1374275	50.0000	47.076	80.00- 120.00	100.00
5.390	5.390 (0.747)	43	903136			0.00- 30.00	65.72
5.390	5.390 (0.747)	86	193324			0.00- 30.00	14.07
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.804	5.804 (0.805)	63	1284230	50.0000	46.056	80.00- 120.00	100.00
5.804	5.804 (0.805)	65	386358			0.08- 60.08	30.08
55 Vinyl Acetate					CAS #: 108-05-4		
5.887	5.887 (0.816)	86	156350	50.0000	50.236	80.00- 120.00	100.00
5.887	5.887 (0.816)	43	1935055			0.00- 30.00	1237.64
5.887	5.887 (0.816)	42	154206			0.00- 30.00	98.63
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	294125	50.0000	43.592	80.00- 120.00	100.00
6.855	6.855 (0.950)	43	1507228			482.44- 542.44	512.44
6.855	6.855 (0.950)	57	118215			0.00- 30.00	40.19
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	897875	50.0000	42.622	80.00- 120.00	100.00
6.800	6.800 (0.942)	96	603189			37.18- 97.18	67.18
6.800	6.800 (0.942)	98	386041			12.99- 72.99	42.99
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (1.000)	42	855453	50.0000	39.559	80.00- 120.00	100.00
7.214	7.214 (1.000)	71	257060			0.05- 60.05	30.05
7.214	7.214 (1.000)	72	283901			0.00- 30.00	33.19
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	1205507	50.0000	46.384	80.00- 120.00	100.00
7.353	7.353 (1.019)	85	762667			33.27- 93.27	63.27
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	1214593	50.0000	50.546	80.00- 120.00	100.00
7.602	7.602 (1.054)	99	760213			32.59- 92.59	62.59
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	855536	50.0000	41.631	80.00- 120.00	100.00
7.574	7.574 (1.050)	56	1173782			107.20- 167.20	137.20
7.574	7.574 (1.050)	41	686166			50.20- 110.20	80.20
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	1068971	50.0000	56.103	80.00- 120.00	100.00
7.823	7.823 (1.084)	117	1126243			75.36- 135.36	105.36

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		
8.293	8.293 (1.149)	57	3578871	50.0000	43.395	80.00- 120.00	100.00
8.293	8.293 (1.149)	56	1105309			0.00- 30.00	30.88
8.293	8.293 (1.149)	41	971167			0.00- 30.00	27.14
81 Benzene					CAS #: 71-43-2		
8.265	8.265 (0.909)	78	1749368	50.0000	40.477	80.00- 120.00	100.00
8.265	8.265 (0.909)	77	402980			0.00- 30.00	23.04
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	932769	50.0000	46.660	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	289137			0.00- 30.00	31.00
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	195002	50.0000	42.893	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	1295942			0.00- 30.00	664.58
8.680	8.680 (0.954)	71	600918			0.00- 30.00	308.16
94 Trichloroethene					CAS #: 79-01-6		
9.509	9.509 (1.046)	95	670584	50.0000	41.930	80.00- 120.00	100.00
9.509	9.509 (1.046)	130	601798			59.74- 119.74	89.74
9.509	9.509 (1.046)	97	428572			33.91- 93.91	63.91
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	610942	50.0000	39.462	80.00- 120.00	100.00
10.007	10.007 (1.100)	62	421708			39.03- 99.03	69.03
10.007	10.007 (1.100)	41	446930			43.15- 103.15	73.15
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	363124	50.0000	44.335	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	299452			52.47- 112.47	82.47
10.228	10.228 (1.125)	57	97078			0.00- 30.00	26.73
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	1110986	50.0000	45.236	80.00- 120.00	100.00
10.560	10.560 (1.161)	85	730886			35.79- 95.79	65.79
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	765253	50.0000	41.740	80.00- 120.00	100.00
11.500	11.500 (1.264)	77	250050			2.68- 62.68	32.68
11.500	11.500 (1.264)	39	559323			43.09- 103.09	73.09
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	496238	50.0000	44.885	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	1368404			0.00- 30.00	275.76
11.832	11.832 (1.301)	85	197065			0.00- 30.00	39.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	1601819	50.0000	41.732	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	950773			29.36- 89.36	59.36
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	826749	50.0000	46.662	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	257091			1.10- 61.10	31.10
12.689	12.689 (0.879)	39	521102			33.03- 93.03	63.03
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	534330	50.0000	44.938	80.00- 120.00	100.00
12.993	12.993 (0.900)	99	333240			32.37- 92.37	62.37
12.993	12.993 (0.900)	83	465040			57.03- 117.03	87.03
112 Tetrachloroethene					CAS #: 127-18-4		
13.049	13.049 (0.904)	166	630174	50.0000	44.175	80.00- 120.00	100.00
13.021	13.021 (0.902)	129	522380			52.89- 112.89	82.89
13.021	13.021 (0.902)	131	496520			48.79- 108.79	78.79
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	686351	50.0000	51.078	80.00- 120.00	100.00
13.436	13.436 (0.931)	43	1420654			176.99- 236.99	206.99
13.436	13.436 (0.931)	100	114086			0.00- 30.00	16.62
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	836072	50.0000	46.850	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	656305			0.00- 30.00	78.50
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	886035	50.0000	44.251	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	827529			63.40- 123.40	93.40
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	1223353	50.0000	42.202	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	392252			2.06- 62.06	32.06
14.486	14.486 (1.004)	77	816178			36.72- 96.72	66.72
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	704205	50.0000	42.814	80.00- 120.00	100.00
14.625	14.625 (1.013)	91	2253204			0.00- 30.00	319.96
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	878309	50.0000	42.939	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	1840572			0.00- 30.00	209.56
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	818323	50.0000	44.000	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)							
15.371	15.371 (1.065)	91	1779728			187.48- 247.48	217.48
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	1357012	50.0000	45.551	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	793790			28.50- 88.50	58.50
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	769066	50.0000	49.557	80.00- 120.00	100.00
15.648	15.648 (1.084)	171	400630			22.09- 82.09	52.09
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	1237411	50.0000	41.839	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	793735			34.14- 94.14	64.14
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	2578453	50.0000	46.033	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	700711			0.00- 57.18	27.18
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	2504535	50.0000	43.951	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	1064346			0.00- 30.00	42.50
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	2145840	50.0000	46.001	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	833332			8.83- 68.83	38.83
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	1153136	50.0000	42.185	80.00- 120.00	100.00
17.362	17.362 (1.203)	148	727498			0.00- 30.00	63.09
17.334	17.334 (1.201)	111	545124			0.00- 30.00	47.27
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	1449435	50.0000	40.447	80.00- 120.00	100.00
17.445	17.445 (1.209)	148	917551			0.00- 30.00	63.30
17.445	17.445 (1.209)	111	668568			0.00- 30.00	46.13
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	1783315	50.0000	43.119	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	322929			0.00- 30.00	18.11
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	1253334	50.0000	42.852	80.00- 120.00	100.00
17.804	17.804 (1.234)	148	793055			33.28- 93.28	63.28
17.804	17.804 (1.234)	111	632470			20.46- 80.46	50.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	1168453	50.0000	38.448	80.00- 120.00	100.00
19.187	19.187 (1.330)	182	1108795			64.89- 124.89	94.89
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	946466	50.0000	46.328	80.00- 120.00	100.00
19.270	19.270 (1.335)	223	615484			35.03- 95.03	65.03
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	3141543	50.0000	46.296	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	622173			0.00- 30.00	19.80
16.366	16.366 (1.134)	105	108984			0.00- 30.00	3.47
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	2683809	50.0000	46.651	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	619244			0.00- 30.00	23.07
15.841	15.841 (1.098)	51	359890			0.00- 30.00	13.41
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	2880944	50.0000	42.321	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	340546			0.00- 30.00	11.82
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	169443	50.0000	45.013	80.00- 120.00	100.00
2.265	2.265 (0.314)	43	1345473			0.00- 30.00	794.06
15 Isopentane					CAS #: 78-78-4		
2.874	2.874 (0.398)	43	1151938	50.0000	47.494	80.00- 120.00	100.00
2.874	2.874 (0.398)	57	740775			0.00- 30.00	64.31
2.874	2.874 (0.398)	72	67736			0.00- 30.00	5.88
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.731	9.731 (1.349)	83	1011651	50.0000	42.404	80.00- 120.00	100.00
9.731	9.731 (1.349)	98	481015			0.00- 30.00	47.55
9.731	9.731 (1.349)	55	1035008			0.00- 30.00	102.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122103.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-DEC-2007
Calibration Time: 09:34
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	215724	129434	302014	215724	0.00
88 1,4-Difluorobenze	850513	510308	1190718	850513	0.00
125 Chlorobenzene-d5	596566	357940	835192	596566	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

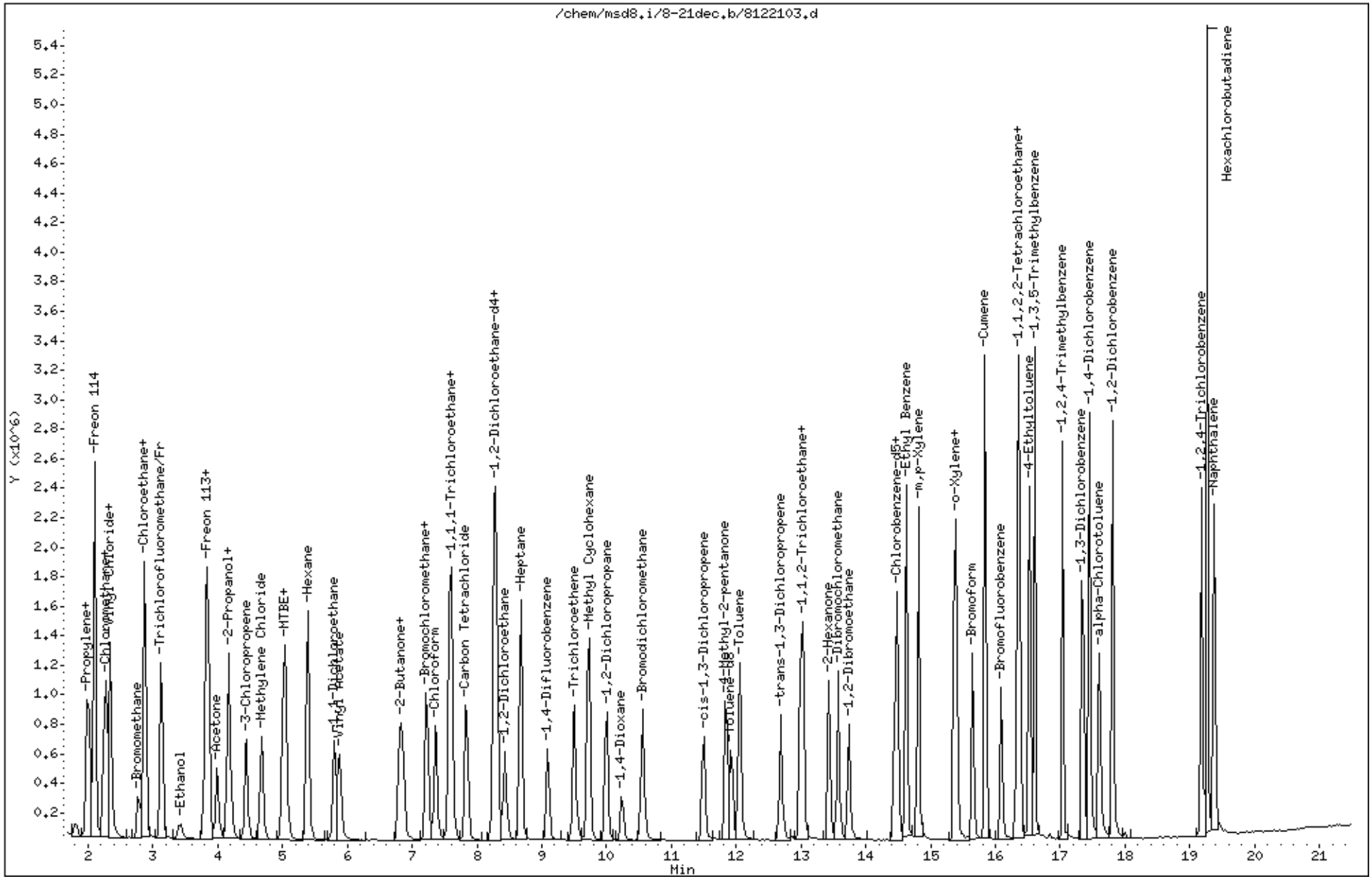
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0223

Data File: /chem/msd8.i/8-21dec.b/8122103.d
Date : 21-DEC-2007 09:34
Client ID: CCV-1
Sample Info: 50mL #1443-376

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0712304-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 10:02 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	78
Vinyl Chloride	78
Bromomethane	85
Chloroethane	87
Freon 11	85
1,1-Dichloroethene	91
Freon 113	91
Methylene Chloride	86
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	79
Chloroform	86
1,1,1-Trichloroethane	95
Carbon Tetrachloride	102
Benzene	73
1,2-Dichloroethane	88
Trichloroethene	75
1,2-Dichloropropane	72
cis-1,3-Dichloropropene	78
Toluene	80
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	83
Tetrachloroethene	82
1,2-Dibromoethane (EDB)	79
Chlorobenzene	78
Ethyl Benzene	78
m,p-Xylene	80
o-Xylene	80
Styrene	82
1,1,2,2-Tetrachloroethane	76
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	80
1,4-Dichlorobenzene	75
alpha-Chlorotoluene	86
1,2-Dichlorobenzene	78
1,3-Butadiene	77
Hexane	84
Cyclohexane	78

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0712304-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/21/07 10:02 AM**	

Compound	%Recovery
Heptane	74
Bromodichloromethane	85
Dibromochloromethane	86
Cumene	89
Propylbenzene	90
Chloromethane	87
1,2,4-Trichlorobenzene	71
Hexachlorobutadiene	84
Acetone	81
Carbon Disulfide	80
2-Propanol	89
trans-1,2-Dichloroethene	80
2-Butanone (Methyl Ethyl Ketone)	80
Tetrahydrofuran	74
1,4-Dioxane	81
4-Methyl-2-pentanone	84
2-Hexanone	85
Bromoform	92
4-Ethyltoluene	83
Ethanol	86
Methyl tert-butyl ether	102
3-Chloropropene	88
2,2,4-Trimethylpentane	78
Naphthalene	65

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	103	70-130

Report Date: 21-Dec-2007 10:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21dec
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: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	40.910	81.82	70-130
108 trans-1,3-Dichloro	50.000	41.730	83.46	70-130
3 Propylene	50.000	42.955	85.91	60-140
4 Dichlorodifluorome	50.000	43.145	86.29	70-130
6 Freon 114	50.000	38.759	77.52	70-130
8 Chloromethane	50.000	43.348	86.70	70-130
11 Vinyl Chloride	50.000	38.994	77.99	70-130
10 1,3-Butadiene	50.000	38.353	76.71	60-140
13 Bromomethane	50.000	42.309	84.62	70-130
16 Chloroethane	50.000	43.426	86.85	70-130
18 Trichlorofluoromet	50.000	42.315	84.63	70-130
23 Ethanol	50.000	42.775	85.55	60-140
28 Freon 113	50.000	45.720	91.44	70-130
29 1,1-Dichloroethene	50.000	45.333	90.67	70-130
30 Acetone	50.000	40.623	81.25	60-140
33 Carbon Disulfide	50.000	39.829	79.66	60-140
34 2-Propanol	50.000	44.589	89.18	60-140
40 Methylene Chloride	50.000	43.252	86.51	70-130
43 MTBE	50.000	50.752	101.50	60-140
45 trans-1,2-Dichloro	50.000	40.173	80.35	60-140
46 Hexane	50.000	42.107	84.21	60-140
54 1,1-Dichloroethane	50.000	44.757	89.51	70-130
55 Vinyl Acetate	50.000	42.317	84.63	60-140
64 cis-1,2-Dichloroet	50.000	39.375	78.75	70-130
65 2-Butanone	50.000	39.961	79.92	60-140
67 Tetrahydrofuran	50.000	36.763	73.53	60-140
70 Chloroform	50.000	43.226	86.45	70-130
73 Cyclohexane	50.000	39.075	78.15	60-140
75 1,1,1-Trichloroeth	50.000	47.315	94.63	70-130
77 Carbon Tetrachlori	50.000	51.212	102.42	70-130
81 Benzene	50.000	36.706	73.41	70-130
83 1,2-Dichloroethane	50.000	43.853	87.71	70-130
85 Heptane	50.000	36.932	73.86	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	37.350	74.70	70-130
97 1,2-Dichloropropan	50.000	36.232	72.46	70-130
98 1,4-Dioxane	50.000	40.746	81.49	60-140
100 Bromodichlorometha	50.000	42.614	85.23	60-140
102 cis-1,3-Dichloropr	50.000	38.829	77.66	70-130
103 4-Methyl-2-pentano	50.000	41.901	83.80	60-140
105 Toluene	50.000	40.097	80.19	70-130
110 1,1,2-Trichloroeth	50.000	41.529	83.06	70-130
112 Tetrachloroethene	50.000	41.274	82.55	70-130
114 2-Hexanone	50.000	42.684	85.37	60-140
116 Dibromochlorometha	50.000	43.053	86.11	60-140
117 1,2-Dibromoethane	50.000	39.440	78.88	70-130
126 Chlorobenzene	50.000	38.770	77.54	70-130
129 Ethyl Benzene	50.000	39.132	78.26	70-130
130 m,p-Xylene	50.000	40.132	80.26	70-130
132 o-Xylene	50.000	40.171	80.34	70-130
135 Bromoform	50.000	46.212	92.42	60-140
144 1,1,2,2-Tetrachlor	50.000	37.977	75.95	70-130
147 4-Ethyltoluene	50.000	41.632	83.26	60-140
148 1,3,5-Trimethylben	50.000	40.030	80.06	70-130
153 1,2,4-Trimethylben	50.000	42.350	84.70	70-130
156 1,3-Dichlorobenzen	50.000	40.153	80.31	70-130
157 1,4-Dichlorobenzen	50.000	37.311	74.62	70-130
158 alpha-Chlorotoluen	50.000	42.829	85.66	70-130
161 1,2-Dichlorobenzen	50.000	38.959	77.92	70-130
167 1,2,4-Trichloroben	50.000	35.737	71.47	70-130
168 Hexachlorobutadien	50.000	42.243	84.49	70-130
137 Cumene	50.000	44.492	88.98	60-140
145 Propylbenzene	50.000	44.790	89.58	60-140
37 3-Chloropropene	50.000	43.892	87.78	60-140
80 2,2,4-Trimethylpen	50.000	39.182	78.36	60-140
169 Naphthalene	50.000	32.484	64.97	60-140
9 Butane	50.000	41.395	82.79	70-130
15 Isopentane	50.000	41.418	82.84	70-130
95 Methyl Cyclohexane	50.000	41.056	82.11	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.886	111.54	70-130
$ 104 Toluene-d8	25.000	24.288	97.15	70-130
$ 140 Bromofluorobenzene	25.000	25.747	102.99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21dec.b/8122104.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 21-DEC-2007 10:02
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1576-170
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Meth Date : 21-Dec-2007 09:43 cbond Quant Type: ISTD
Cal Date : 30-NOV-2007 12:36 Cal File: 8113006.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	179005	25.0000		80.00- 120.00	100.00
7.214	7.242 (1.000)	128	139692			50.53- 110.53	78.04
7.214	7.214 (1.000)	49	368392			173.99- 233.99	205.80
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	728951	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	134707			0.00- 49.60	18.48
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	513765	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	349743			0.00- 30.00	68.07
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	325825	27.8856	27.886	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	177788			28.82- 88.82	54.57
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	648969	24.2880	24.288	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	73870			0.00- 40.83	11.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	501200			45.72- 105.72	77.23
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	291941	25.7470	25.747	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	474682			129.71- 189.71	162.60
16.090	16.090 (1.115)	176	281995			67.06- 127.06	96.59
3 Propylene					CAS #: 115-07-1		
1.933	1.961 (0.268)	41	479406	42.9548	42.955	80.00- 120.00	100.00
1.933	1.961 (0.268)	42	324372			0.00- 30.00	67.66
1.933	1.961 (0.268)	39	334943			0.00- 30.00	69.87
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	2.016 (0.276)	85	1184217	43.1447	43.145	80.00- 120.00	100.00
1.989	2.016 (0.276)	87	392758			0.00- 30.00	33.17
6 Freon 114					CAS #: 76-14-2		
2.072	2.099 (0.287)	135	826815	38.7591	38.759	80.00- 120.00	100.00
2.072	2.099 (0.287)	137	255194			1.52- 61.52	30.86
8 Chloromethane					CAS #: 74-87-3		
2.210	2.238 (0.306)	50	581250	43.3482	43.348	80.00- 120.00	100.00
2.210	2.238 (0.306)	52	173766			0.00- 30.00	29.90
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.348 (0.322)	62	589301	38.9939	38.994	80.00- 120.00	100.00
2.321	2.348 (0.322)	64	172850			0.00- 30.00	29.33
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.348 (0.322)	54	509887	38.3530	38.353	80.00- 120.00	100.00
2.321	2.348 (0.322)	39	497616			0.00- 30.00	97.59
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	413797	42.3093	42.309	80.00- 120.00	100.00
2.763	2.763 (0.383)	96	383330			64.38- 124.38	92.64
16 Chloroethane					CAS #: 75-00-3		
2.846	2.874 (0.394)	64	296523	43.4263	43.426	80.00- 120.00	100.00
2.846	2.874 (0.394)	49	89818			0.00- 30.00	30.29
2.846	2.874 (0.394)	66	90989			0.00- 30.00	30.69
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	1234982	42.3147	42.315	80.00- 120.00	100.00
3.122	3.122 (0.433)	103	819888			33.89- 93.89	66.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.399	3.426 (0.471)	45	239337	42.7747	42.775	80.00- 120.00	100.00
3.399	3.426 (0.471)	43	53701			0.00- 30.00	22.44
3.399	3.399 (0.471)	46	93761			0.00- 30.00	39.18
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	749098	45.7201	45.720	80.00- 120.00	100.00
3.814	3.814 (0.529)	153	483071			33.32- 93.32	64.49
3.814	3.814 (0.529)	101	1057799			111.70- 171.70	141.21
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	905802	45.3334	45.333	80.00- 120.00	100.00
3.841	3.869 (0.532)	96	520344			24.43- 84.43	57.45
3.841	3.869 (0.532)	98	323331			5.17- 65.17	35.70
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	285454	40.6234	40.623	80.00- 120.00	100.00
3.979	3.979 (0.552)	43	969980			0.00- 30.00	339.80
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	1092320	44.5891	44.589	80.00- 120.00	100.00
4.173	4.173 (0.578)	43	234280			0.00- 30.00	21.45
4.145	4.173 (0.575)	59	38644			0.00- 30.00	3.54
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.173 (0.575)	76	1481136	39.8295	39.829	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.450 (0.613)	76	235302	43.8923	43.892	80.00- 120.00	100.00
4.422	4.450 (0.613)	41	833231			0.00- 30.00	354.11
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	748535	43.2526	43.252	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	452904			31.99- 91.99	60.51
4.671	4.671 (0.647)	51	220219			0.00- 30.00	29.42
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	972293	50.7520	50.752	80.00- 120.00	100.00
5.003	5.003 (0.693)	57	263996			0.00- 56.00	27.15
5.003	5.003 (0.693)	41	272369			0.00- 30.00	28.01
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.058 (0.697)	96	519130	40.1733	40.173	80.00- 120.00	100.00
5.030	5.058 (0.697)	61	832423			127.48- 187.48	160.35
5.030	5.058 (0.697)	98	331972			0.00- 30.00	63.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	1019997	42.1072	42.107	80.00- 120.00	100.00
5.390	5.390 (0.747)	43	678313			0.00- 30.00	66.50
5.390	5.390 (0.747)	86	147392			0.00- 30.00	14.45
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.804 (0.801)	63	1035579	44.7573	44.757	80.00- 120.00	100.00
5.777	5.804 (0.801)	65	295401			0.08- 60.08	28.53
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.887 (0.812)	86	109286	42.3166	42.317	80.00- 120.00	100.00
5.860	5.887 (0.812)	43	1510522			0.00- 30.00	1382.17
5.860	5.887 (0.812)	42	118213			0.00- 30.00	108.17
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	223731	39.9611	39.961	80.00- 120.00	100.00
6.855	6.855 (0.950)	43	1141645			482.44- 542.44	510.28
6.855	6.855 (0.950)	57	94745			0.00- 30.00	42.35
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	688285	39.3747	39.375	80.00- 120.00	100.00
6.800	6.800 (0.942)	96	461304			37.18- 97.18	67.02
6.800	6.800 (0.942)	98	290631			12.99- 72.99	42.23
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (1.000)	42	659672	36.7630	36.763	80.00- 120.00	100.00
7.214	7.214 (1.000)	71	194089			0.05- 60.05	29.42
7.214	7.214 (1.000)	72	202370			0.00- 30.00	30.68
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	932215	43.2262	43.226	80.00- 120.00	100.00
7.353	7.353 (1.019)	85	599912			33.27- 93.27	64.35
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	943425	47.3151	47.315	80.00- 120.00	100.00
7.602	7.602 (1.054)	99	611648			32.59- 92.59	64.83
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	666316	39.0748	39.075	80.00- 120.00	100.00
7.574	7.574 (1.050)	56	902592			107.20- 167.20	135.46
7.574	7.574 (1.050)	41	525144			50.20- 110.20	78.81
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	809684	51.2121	51.212	80.00- 120.00	100.00
7.823	7.823 (1.084)	117	885935			75.36- 135.36	109.42

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		
8.293	8.293 (1.149)	57	2681370	39.1820	39.182	80.00- 120.00	100.00
8.293	8.293 (1.149)	56	858554			0.00- 30.00	32.02
8.293	8.293 (1.149)	41	750828			0.00- 30.00	28.00
81 Benzene					CAS #: 71-43-2		
8.238	8.265 (0.906)	78	1359684	36.7066	36.706	80.00- 120.00	100.00
8.238	8.265 (0.906)	77	297593			0.00- 30.00	21.89
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	751362	43.8534	43.853	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	219955			0.00- 30.00	29.27
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	143904	36.9317	36.932	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	1010861			0.00- 30.00	702.46
8.680	8.680 (0.954)	71	445740			0.00- 30.00	309.75
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.509 (1.043)	95	511968	37.3504	37.350	80.00- 120.00	100.00
9.482	9.509 (1.043)	130	478730			59.74- 119.74	93.51
9.482	9.509 (1.043)	97	336766			33.91- 93.91	65.78
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	480759	36.2318	36.232	80.00- 120.00	100.00
10.007	10.007 (1.100)	62	326827			39.03- 99.03	67.98
9.979	10.007 (1.097)	41	348476			43.15- 103.15	72.48
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	286029	40.7460	40.746	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	227102			52.47- 112.47	79.40
10.228	10.228 (1.125)	57	79849			0.00- 30.00	27.92
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	897011	42.6145	42.614	80.00- 120.00	100.00
10.560	10.560 (1.161)	85	568625			35.79- 95.79	63.39
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	610133	38.8287	38.829	80.00- 120.00	100.00
11.500	11.500 (1.264)	77	197517			2.68- 62.68	32.37
11.500	11.500 (1.264)	39	420972			43.09- 103.09	69.00
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	397033	41.9009	41.901	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	1116876			0.00- 30.00	281.31
11.832	11.832 (1.301)	85	159555			0.00- 30.00	40.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	1319074	40.0969	40.097	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	777593			29.36- 89.36	58.95
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	636734	41.7298	41.730	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	199650			1.10- 61.10	31.36
12.689	12.689 (0.879)	39	406602			33.03- 93.03	63.86
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	425259	41.5286	41.529	80.00- 120.00	100.00
12.993	12.993 (0.900)	99	262426			32.37- 92.37	61.71
12.993	12.993 (0.900)	83	370714			57.03- 117.03	87.17
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.049 (0.902)	166	507066	41.2742	41.274	80.00- 120.00	100.00
13.021	13.021 (0.902)	129	403755			52.89- 112.89	79.63
13.021	13.021 (0.902)	131	397139			48.79- 108.79	78.32
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	493950	42.6841	42.684	80.00- 120.00	100.00
13.436	13.436 (0.931)	43	1049202			176.99- 236.99	212.41
13.436	13.436 (0.931)	100	91298			0.00- 30.00	18.48
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	661667	43.0527	43.053	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	528929			0.00- 30.00	79.94
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	680092	39.4400	39.440	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	641661			63.40- 123.40	94.35
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	967877	38.7696	38.770	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	315020			2.06- 62.06	32.55
14.486	14.486 (1.004)	77	653873			36.72- 96.72	67.56
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	554308	39.1322	39.132	80.00- 120.00	100.00
14.625	14.625 (1.013)	91	1776178			0.00- 30.00	320.43
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	706964	40.1324	40.132	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	1421646			0.00- 30.00	201.09
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	643415	40.1714	40.171	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)							
15.343	15.371 (1.063)	91	1424824			187.48- 247.48	221.45
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	1049582	40.9098	40.910	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	619945			28.50- 88.50	59.07
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	617617	46.2120	46.212	80.00- 120.00	100.00
15.648	15.648 (1.084)	171	318859			22.09- 82.09	51.63
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	967286	37.9767	37.977	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	630682			34.14- 94.14	65.20
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	2008275	41.6323	41.632	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	545610			0.00- 57.18	27.17
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	1964470	40.0300	40.030	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	821268			0.00- 30.00	41.81
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	1701316	42.3495	42.350	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	646240			8.83- 68.83	37.98
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	945246	40.1529	40.153	80.00- 120.00	100.00
17.362	17.362 (1.203)	148	601458			0.00- 30.00	63.63
17.334	17.334 (1.201)	111	445811			0.00- 30.00	47.16
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	1151482	37.3109	37.311	80.00- 120.00	100.00
17.445	17.445 (1.209)	148	730274			0.00- 30.00	63.42
17.445	17.445 (1.209)	111	533064			0.00- 30.00	46.29
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	1525475	42.8291	42.829	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	293616			0.00- 30.00	19.25
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	981300	38.9588	38.959	80.00- 120.00	100.00
17.804	17.804 (1.234)	148	612947			33.28- 93.28	62.46
17.804	17.804 (1.234)	111	497791			20.46- 80.46	50.73

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	935322	35.7366	35.737	80.00- 120.00	100.00
19.187	19.187 (1.330)	182	858333			64.89- 124.89	91.77
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	743227	42.2429	42.243	80.00- 120.00	100.00
19.270	19.270 (1.335)	223	491677			35.03- 95.03	66.15
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	2617510	44.7904	44.790	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	516833			0.00- 30.00	19.75
16.366	16.366 (1.134)	105	94275			0.00- 30.00	3.60
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	2204344	44.4923	44.492	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	521013			0.00- 30.00	23.64
15.841	15.841 (1.098)	51	290823			0.00- 30.00	13.19
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	1904369	32.4838	32.484	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	226841			0.00- 30.00	11.91
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	129301	41.3950	41.395	80.00- 120.00	100.00
2.265	2.265 (0.314)	43	1046439			0.00- 30.00	809.30
15 Isopentane					CAS #: 78-78-4		
2.846	2.874 (0.394)	43	833586	41.4185	41.418	80.00- 120.00	100.00
2.846	2.874 (0.394)	57	546783			0.00- 30.00	65.59
2.846	2.874 (0.394)	72	54363			0.00- 30.00	6.52
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.731	9.731 (1.349)	83	812774	41.0559	41.056	80.00- 120.00	100.00
9.731	9.731 (1.349)	98	363112			0.00- 30.00	44.68
9.703	9.731 (1.345)	55	812393			0.00- 30.00	99.95

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122104.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd8.i/8-21dec.b/t14qn26b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-DEC-2007
Calibration Time: 09:34
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	215724	129434	302014	179005	-17.02
88 1,4-Difluorobenze	850513	510308	1190718	728951	-14.29
125 Chlorobenzene-d5	596566	357940	835192	513765	-13.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

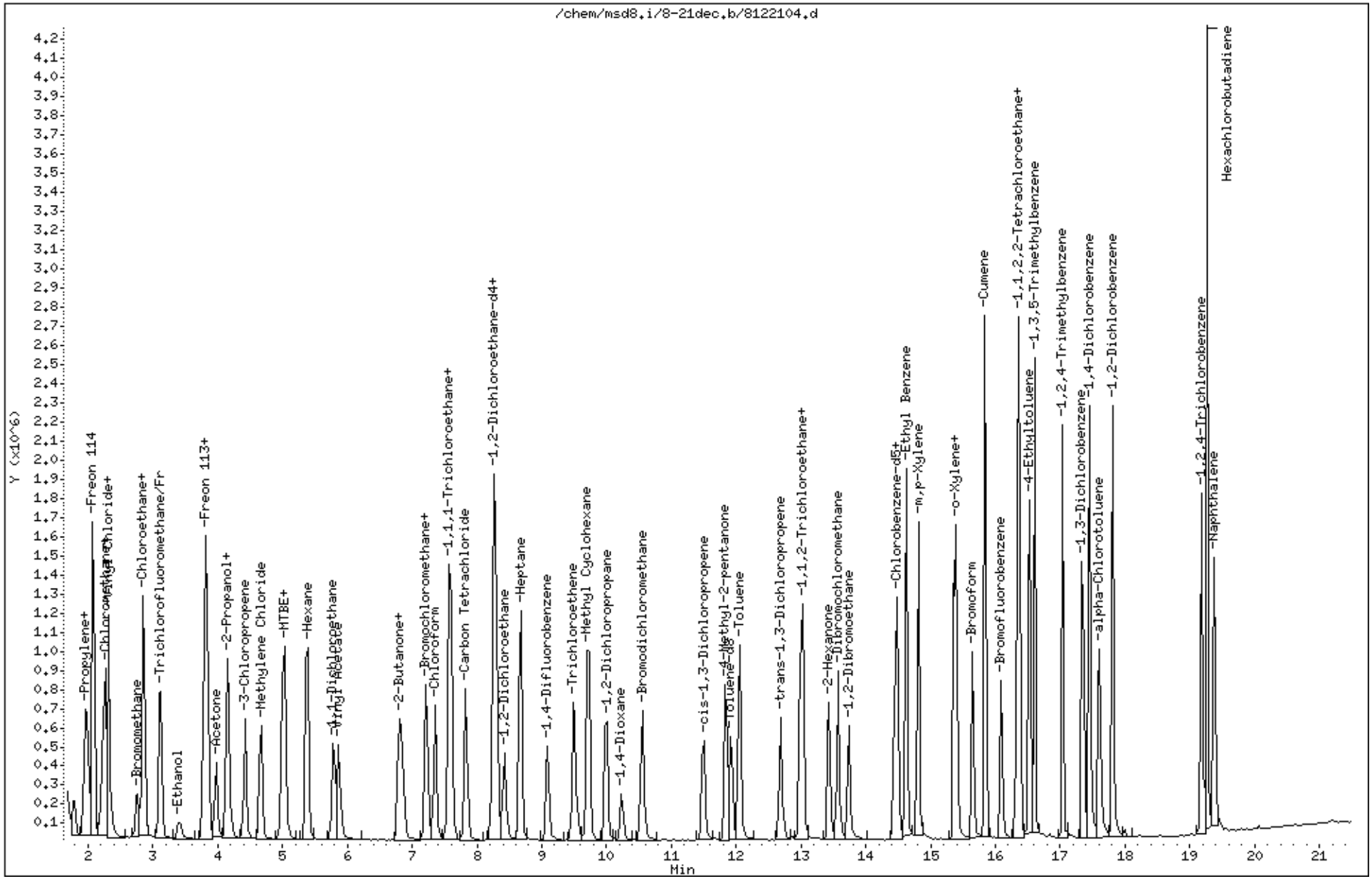
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0237

Data File: /chem/msd8.i/8-21dec.b/8122104.d
Date : 21-DEC-2007 10:02
Client ID: LCS-1
Sample Info: 50mL #1576-170

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



@ Air Toxics Ltd. **MSD-8** Logbook #: 1587

0238

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.35
75	30.0 – 60.0% of mass 95	54.79
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.60
173	Less than 2.0% of mass 174	(0.81)[1]
174	Greater than 50.0% of mass 95	59.38
175	5.0 – 9.0% of mass 174	(6.65)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.13)[1]
177	5.0 – 9.0% of mass 176	(6.14)[2]

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

BFB Injection Date: 12/21/07
BFB Injection Time: 0915
BFB File ID: 8122102
Tekmar Purge Flow: 15.8 mL/min
Vacuum: 9.2×10^{-6} torr

IS/S Std.#:	1443-373	Exp. Date: 2-26-08
BCM	215724	
1,4-DFB	850513	
CB-d5	596566	

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

Verify 176/174 m/z Ratio: 239101 / 246165 x 100 = 97.13%

NOAH Cart #: 7/10 **File #:** 8122105 / 8122107

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 397765\ )}{(\ 215724\ )} \times \frac{(\ 25.0\ )}{(\ 1.63184\ )} = 28.248$

File ID:	8122103
Compound:	1,2-DCA-d4
Initials:	CB

Reported Result 28.248

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	8122101	BFB Tune Check	1476-60	50ng	2mL	1.00	12/21/07	0904	CB	
2	✓	02	↓	↓	↓	↓			0915	CB	
3	✓	03	CCV-1	1443-376	50ppbv	50mL			0934	CB	
4	✓	04	LCS-1	1576-170	50ppbv	50mL			1002	CB	
5	✓	05	Lab Blank	12941	Humid	200mL			1111	CB	Cert Cert #7 Leg 8
6	X	06	↓	↓	↓	↓			1204	CB	Cert Cert #5 Leg 8
7	✓	07	↓	↓	↓	↓	↓		1306	CB	Cert Cert #10 Leg 5
8	✓	08	071220S-03A	33105	10.5"Hg-5psi	200mL	2.06	↓	1402	CB	

Signature

12/21/07
Date

9	X	8122109	0712295-03AA	33905	10.5"Hg-5psi	200mL	2.06	12/21/07	1444	CB	
10	✓	10	↓ -04A	34420	11.5"Hg-		2.17		1526	CB	
11	✓	11	0712304-01A ~~-05A~~	96115	6.5"Hg-		1.71		1629		
12	✓	12	-02A	10985	7.5"Hg-		1.79		1651		
13	✓	13	-03A	4084	↓ - ↓		↓		1724		
14	✓	14	↓ -04A	33781	4"Hg 44psi		1.00		~~1805~~ 1816		TB
15	✓	15	0712295 - 01A	3434	11.5"Hg-5psi		2.17		1558		
16	✓	↓ 16	↓ -02A	4207	↓ - ↓	↓	↓		1941		
17	✓	8122117	0712295-03A	33905	10.5"Hg-5psi	200mL	2.06		2059		
18	✓	↓ 18	↓ 03A	↓	↓	↓	↓		2135		
19	✓	8122119	0712295-05A	35149	11.5"Hg-5psi	200mL	2.17	↓	2301	KR	
20	✓	20	06A	03389	11.0"Hg		2.12		2344	KR	
21	✓	21	07A	33799	12.0"Hg		2.23	12/22/07	0026	KR	
22	✓	22	08A	25246	13.0"Hg		2.36		0108	KR	
23	✓	23	09A	05407	6.5"Hg		1.71		0151	KR	
24	✓	24	10A	14113	9.0"Hg		1.91		0233	KR	IS ↓
25	✓	25	11A	34504	10.5"Hg		2.06		0315	KR	
26	✓	26	12A	4199	11.0"Hg		2.12		0358	KR	
27	✓	↓ 27	↓ 10A	14113	9.0"Hg ↓	↓	1.91	↓	0638	KR	
28											
29											
30											
31											
32											

Comments:

CB 12/22/07

Signature

12/22/07

Date

Air Toxics Ltd.

Data file : /chem/msd8.i/8-26nov.b/8112601.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-NOV-2007 12:32
Operator : cb Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-60
Comment :
Method : /var/chem/msd8.i/8-26nov.b/bfb30.m
Meth Date : 26-Nov-2007 12:22 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	2.00000	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	
3.610	3.748	-0.138	95	1846784			100.00- 100.00	100.00
3.610	3.748	-0.138	50	430336			15.00- 40.00	23.30
3.610	3.748	-0.138	75	931840			30.00- 60.00	50.46
3.610	3.748	-0.138	96	119760			5.00- 9.00	6.48
3.610	3.748	-0.138	173	6928			0.00- 2.00	0.73
3.610	3.748	-0.138	174	943680			50.00- 100.00	51.10
3.610	3.748	-0.138	175	67728			5.00- 9.00	7.18
3.610	3.748	-0.138	176	898304			95.00- 101.00	95.19
3.610	3.748	-0.138	177	58144			5.00- 9.00	6.47

Data File: /chem/msd8.i/8-26nov.b/8112601.d

Date : 26-NOV-2007 12:32

Client ID: BFB

Instrument: msd8.i

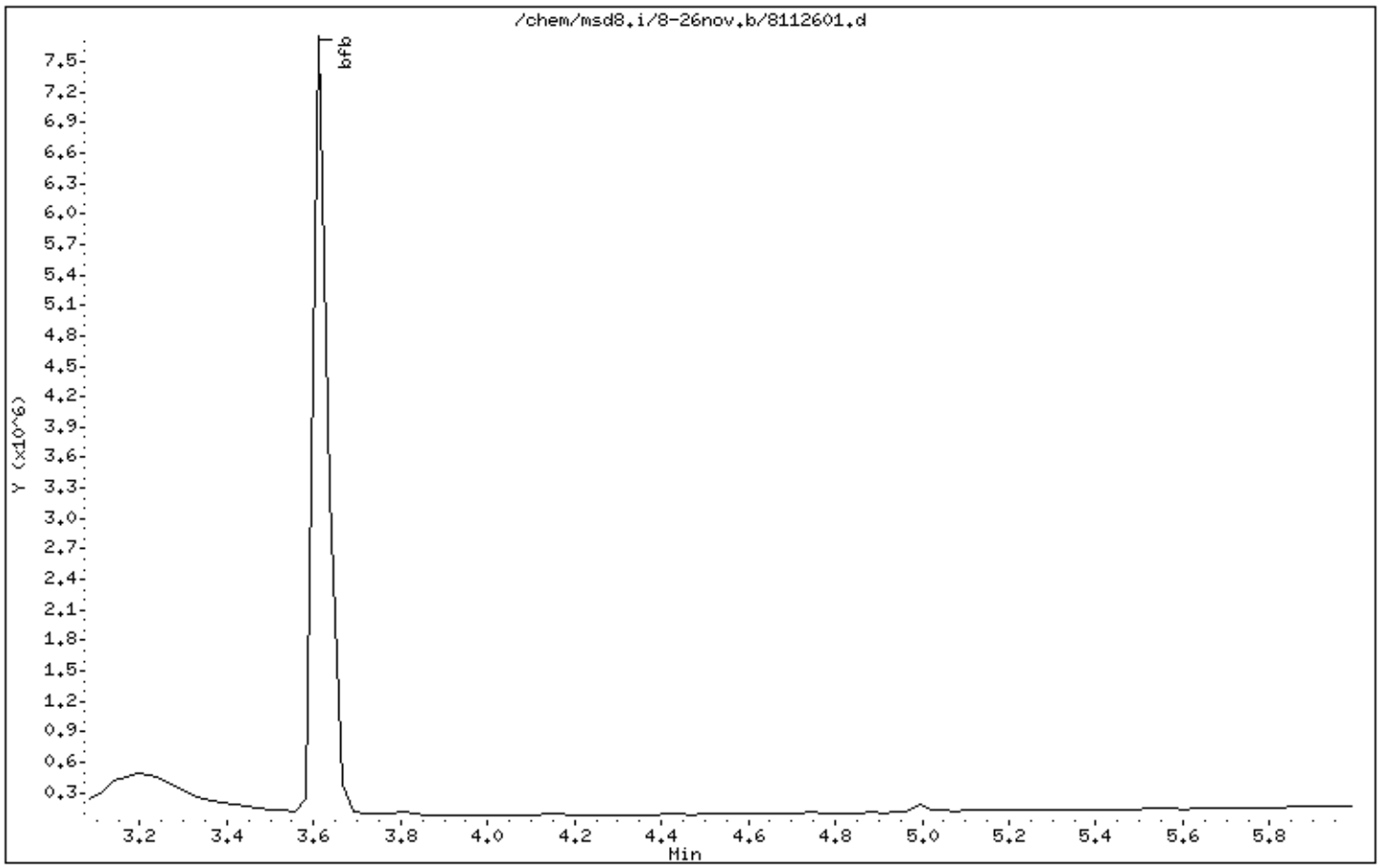
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53



Data File: /chem/msd8.i/8-26nov.b/8112601.d

Date : 26-NOV-2007 12:32

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

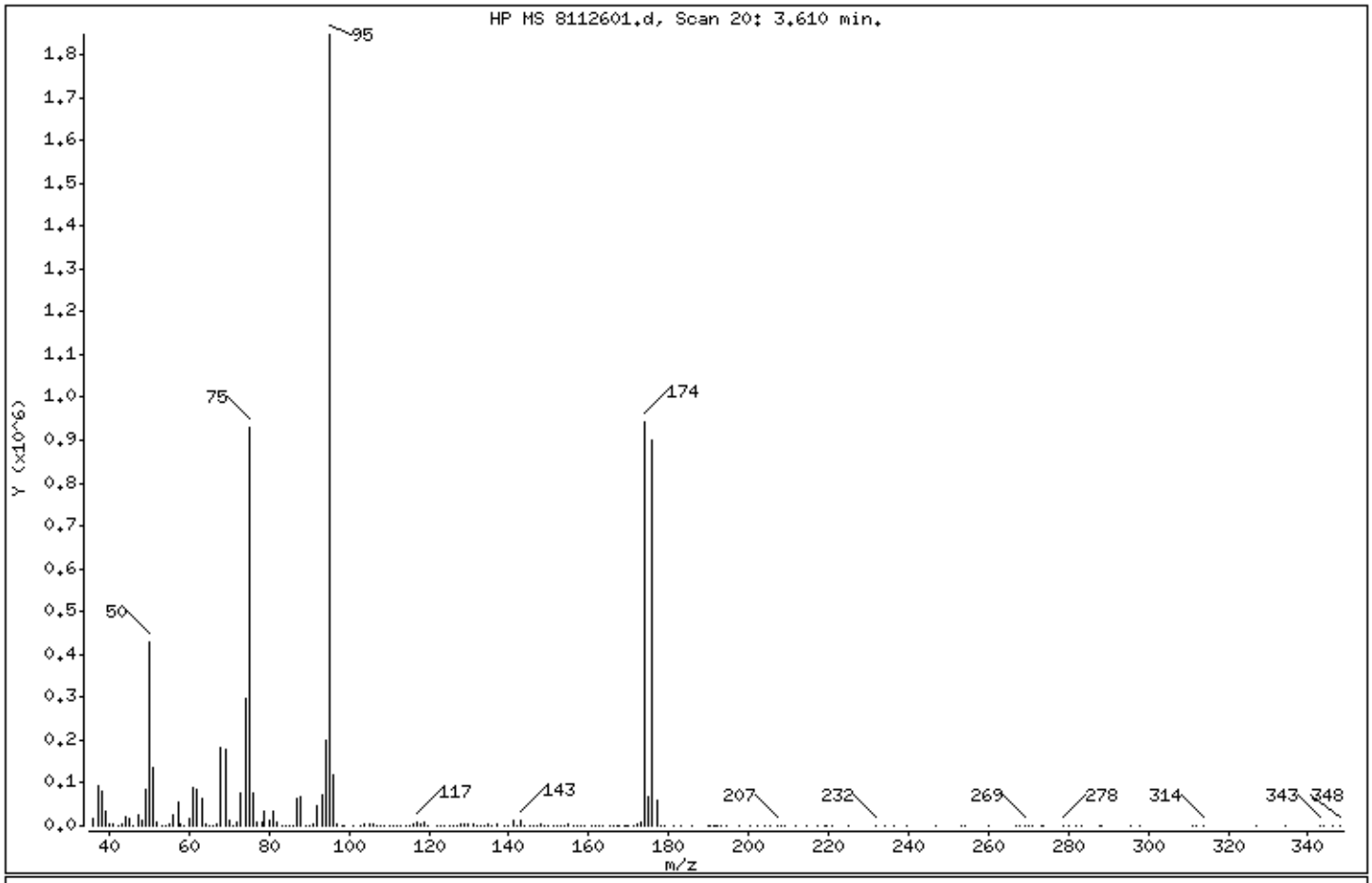
Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

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	23.30
75	30.00 - 60.00% of mass 95	50.46
96	5.00 - 9.00% of mass 95	6.48
173	Less than 2.00% of mass 174	0.38 (0.73)
174	50.00 - 100.00% of mass 95	51.10
175	5.00 - 9.00% of mass 174	3.67 (7.18)
176	95.00 - 101.00% of mass 174	48.64 (95.19)
177	5.00 - 9.00% of mass 176	3.15 (6.47)

Date : 26-NOV-2007 12:32

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8112601.d
Spectrum: HP MS 8112601.d, Scan 20: 3.610 min.
Location of Maximum: 95.10
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	14952	86.00	1825	140.00	738	197.70	260
37.10	92048	87.00	62488	141.00	11936	200.50	207
38.10	82304	88.00	66152	142.00	1862	202.20	288
39.10	33752	89.30	296	143.00	13763	203.90	267
40.00	2883	90.10	278	144.00	895	205.20	306
41.10	2257	91.00	6040	145.10	1034	207.10	1998
42.10	1105	92.10	45464	146.00	2106	208.10	409
43.10	2425	93.10	70928	147.00	1173	209.20	240
44.00	22728	94.10	198080	148.00	2545	211.70	225
45.10	17232	95.10	1846784	148.90	1178	214.60	287
46.00	1302	96.10	119760	149.90	1609	217.40	334
47.10	25120	97.10	3169	151.10	601	219.10	217
48.10	11289	98.20	609	151.90	1050	219.50	252
49.10	86480	99.00	240	152.90	741	221.00	211
50.10	430336	101.20	229	154.00	796	225.10	247
51.10	134208	102.90	961	155.00	2450	231.70	391
52.00	6729	104.00	5613	156.00	1179	233.90	328
53.00	1088	105.00	2917	157.00	2099	236.40	217
54.10	1005	106.00	5735	158.10	347	239.70	246
55.10	6057	107.00	1662	159.00	1270	247.00	244
56.00	26664	108.10	292	160.90	1315	253.00	739
57.10	54960	108.70	403	161.80	358	254.00	273
58.00	2752	110.00	948	162.40	318	260.20	549
58.80	415	111.00	1564	163.30	346	266.90	211
60.00	15961	112.00	782	165.50	403	267.80	258
61.10	87280	113.00	1144	166.10	565	269.10	914
62.10	84192	114.20	369	166.90	319	269.90	260
63.10	63888	115.10	1645	167.70	501	270.30	205
64.10	5377	116.00	4175	168.80	499	271.00	255
65.10	1861	117.00	8098	169.40	650	273.10	200
66.20	631	118.00	4755	170.00	872	273.60	252
67.00	4774	119.00	7146	171.20	1025	278.60	332
68.00	182912	119.90	223	172.00	3069	280.20	285
69.00	177600	122.10	469	173.00	6928	282.00	308
70.10	11487	123.00	658	174.00	943680	283.10	224

Data File: /chem/msd8.i/8-26nov.b/8112601.d

Date : 26-NOV-2007 12:32

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

Data File: 8112601.d
Spectrum: HP MS 8112601.d, Scan 20: 3.610 min.
Location of Maximum: 95.10
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	582	124.00	734	175.00	67728	287.70	262
72.10	7932	125.20	296	176.00	898304	288.30	215
73.00	75328	126.10	709	177.00	58144	295.50	229
74.10	298496	126.90	796	178.00	2044	298.00	201
75.10	931840	128.00	5078	178.80	269	310.90	214
76.10	77680	129.00	2545	181.10	288	312.20	216
77.00	9301	129.90	3981	182.90	221	313.90	245
78.10	9662	131.00	2618	185.70	246	326.90	277
78.90	34504	131.90	325	189.90	228	334.20	222
80.00	12031	133.00	903	190.30	212	343.00	299
81.00	34976	134.00	800	191.20	802	343.90	226
82.00	7911	135.00	3064	191.80	470	346.00	247
83.10	1180	135.80	461	192.30	287	347.90	250
84.10	311	137.00	2295	193.20	236		
85.10	595	138.90	540	194.40	278		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-27nov.b/8112701.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 27-NOV-2007 09:13
Operator : cb Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-60
Comment :
Method : /var/chem/msd8.i/8-27nov.b/bfb30.m
Meth Date : 27-Nov-2007 09:03 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	2.00000	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		
3.610	3.748	-0.138	95	1099242			100.00- 100.00	100.00
3.610	3.748	-0.138	50	276572			15.00- 40.00	25.16
3.610	3.748	-0.138	75	564886			30.00- 60.00	51.39
3.610	3.748	-0.138	96	71250			5.00- 9.00	6.48
3.610	3.748	-0.138	173	4942			0.00- 2.00	0.76
3.610	3.748	-0.138	174	648477			50.00- 100.00	58.99
3.610	3.748	-0.138	175	46704			5.00- 9.00	7.20
3.610	3.748	-0.138	176	624717			95.00- 101.00	96.34
3.610	3.748	-0.138	177	39616			5.00- 9.00	6.34

Data File: /var/chem/msd8.i/8-27nov.b/8112701.d

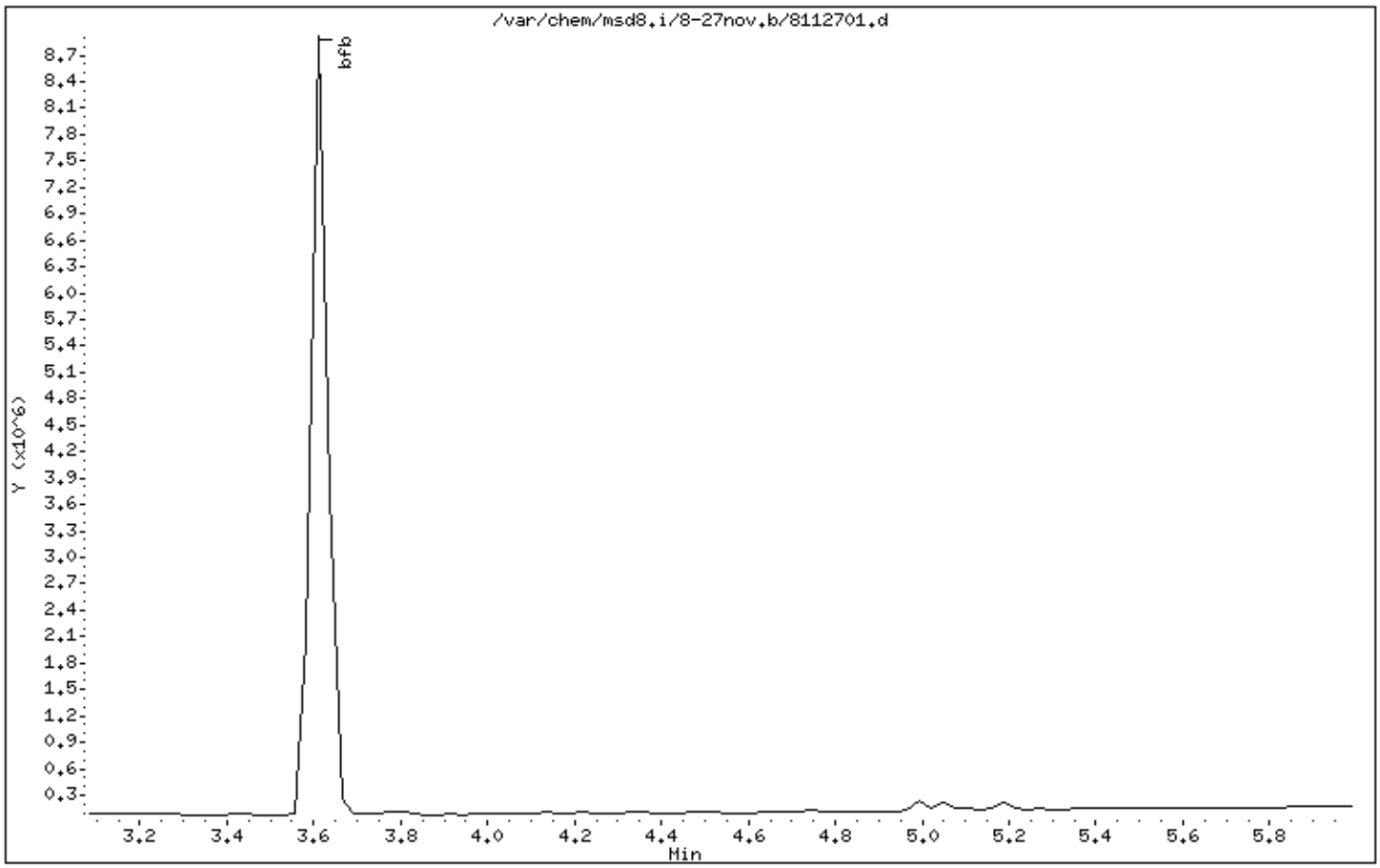
Date : 27-NOV-2007 09:13

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53



Data File: /var/chem/msd8.i/8-27nov.b/8112701.d

Date : 27-NOV-2007 09:13

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

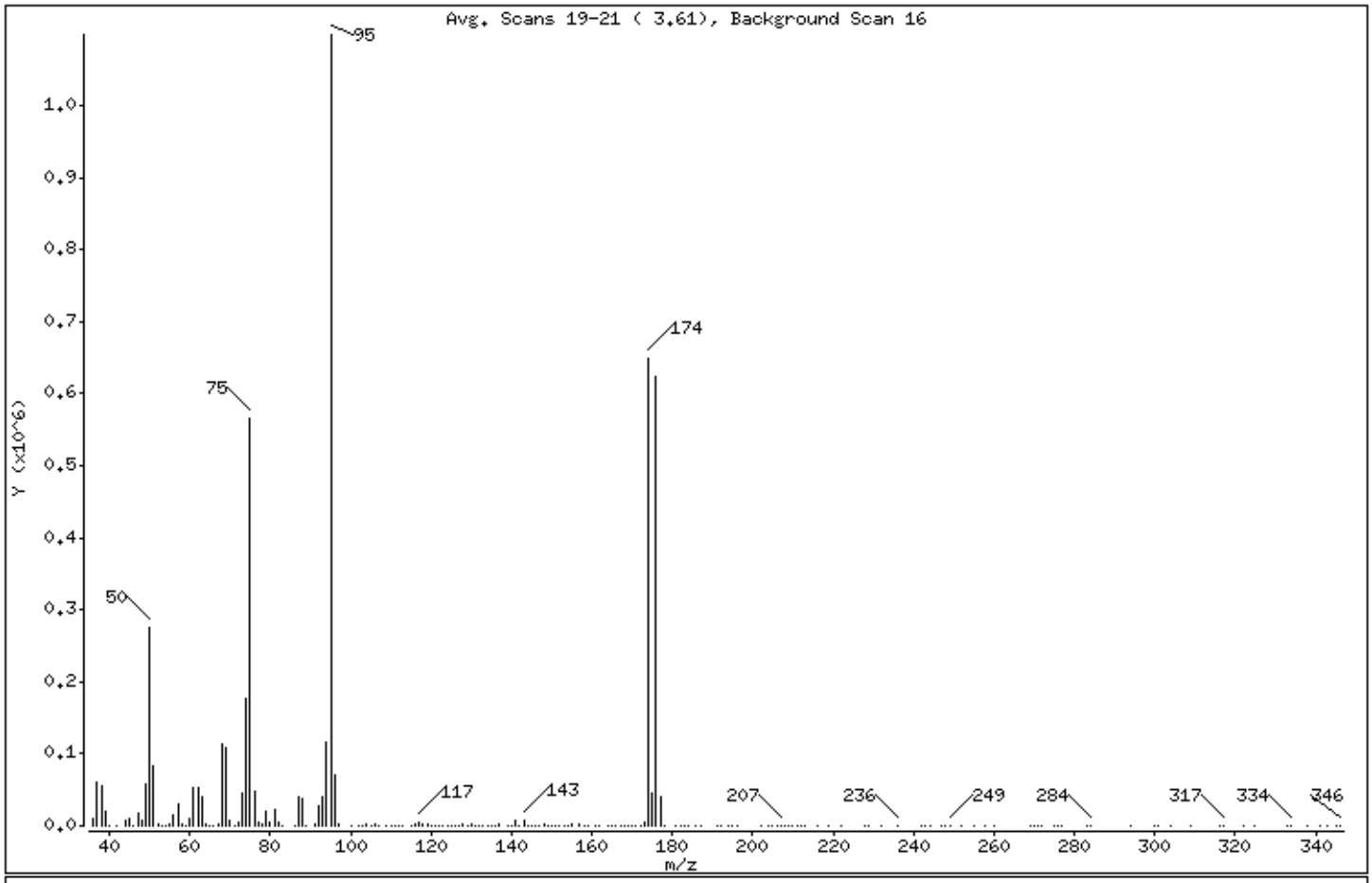
Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

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	25.16
75	30.00 - 60.00% of mass 95	51.39
96	5.00 - 9.00% of mass 95	6.48
173	Less than 2.00% of mass 174	0.45 (0.76)
174	50.00 - 100.00% of mass 95	58.99
175	5.00 - 9.00% of mass 174	4.25 (7.20)
176	95.00 - 101.00% of mass 174	56.83 (96.34)
177	5.00 - 9.00% of mass 176	3.60 (6.34)

Date : 27-NOV-2007 09:13

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8112701.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 16
Location of Maximum: 95.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10056	89.00	3	145.00	656	210.00	77
37.00	60072	91.00	2860	146.00	919	211.00	101
38.00	54872	92.00	27328	147.00	450	212.00	189
39.00	20304	93.00	41032	148.00	1606	213.00	70
40.00	205	94.00	116104	149.00	628	216.00	94
42.00	221	95.00	1098752	150.00	453	219.00	83
44.00	8199	96.00	71248	151.00	137	222.00	91
45.00	10496	97.00	1499	152.00	563	228.00	90
46.00	253	100.00	254	153.00	698	229.00	140
47.00	16688	102.00	130	154.00	423	232.00	141
48.00	7528	103.00	101	155.00	1705	236.00	184
49.00	56976	104.00	3091	157.00	1460	242.00	98
50.00	276544	105.00	514	158.00	19	243.00	183
51.00	83728	106.00	3176	159.00	1059	244.00	133
52.00	3170	107.00	495	161.00	414	247.00	23
53.00	5	109.00	42	162.00	151	248.00	168
54.00	156	110.00	688	164.00	147	249.00	495
55.00	2051	111.00	576	165.00	142	252.00	100
56.00	16021	112.00	264	166.00	216	255.00	112
57.00	31248	113.00	398	167.00	6	258.00	66
58.00	1532	115.00	655	168.00	243	260.00	97
59.00	22	116.00	2800	169.00	532	269.00	180
60.00	10250	117.00	4886	170.00	891	270.00	58
61.00	53376	118.00	2956	171.00	1173	271.00	14
62.00	53360	119.00	3641	172.00	529	272.00	75
63.00	40288	120.00	34	173.00	4942	275.00	86
64.00	3290	121.00	110	174.00	648448	276.00	144
65.00	126	122.00	292	175.00	46704	277.00	96
66.00	59	123.00	155	176.00	624704	283.00	219
67.00	2012	124.00	718	177.00	39616	284.00	227
68.00	112640	125.00	194	178.00	1041	294.00	166
69.00	107496	126.00	427	181.00	78	300.00	89
70.00	7506	127.00	36	182.00	164	301.00	81
71.00	230	128.00	2569	183.00	77	304.00	70
72.00	5016	129.00	1238	184.00	297	309.00	69

Date : 27-NOV-2007 09:13

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8112701.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 16
Location of Maximum: 95.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	45376	130.00	2429	186.00	72	316.00	70
74.00	177728	131.00	1201	187.00	83	317.00	90
75.00	564864	132.00	236	191.00	124	322.00	77
76.00	47768	133.00	352	192.00	157	325.00	91
77.00	6142	134.00	464	194.00	327	333.00	178
78.00	3194	135.00	1209	195.00	377	334.00	207
79.00	20088	136.00	301	196.00	283	338.00	92
80.00	6068	137.00	1332	202.00	156	341.00	76
81.00	21872	139.00	236	204.00	68	343.00	46
82.00	4477	140.00	812	205.00	21	345.00	9
83.00	570	141.00	7841	206.00	94	346.00	108
86.00	1207	142.00	1080	207.00	537		
87.00	40632	143.00	7859	208.00	10		
88.00	37272	144.00	174	209.00	222		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-30nov.b/8113001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 30-NOV-2007 10:03
Operator : cb Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-60
Comment :
Method : /var/chem/msd8.i/8-30nov.b/bfb30.m
Meth Date : 30-Nov-2007 09:53 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	2.00000	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		
3.610	3.748	-0.138	95	826517			100.00- 100.00	100.00
3.610	3.748	-0.138	50	217916			15.00- 40.00	26.37
3.610	3.748	-0.138	75	446084			30.00- 60.00	53.97
3.610	3.748	-0.138	96	54665			5.00- 9.00	6.61
3.610	3.748	-0.138	173	4045			0.00- 2.00	0.80
3.610	3.748	-0.138	174	502786			50.00- 100.00	60.83
3.610	3.748	-0.138	175	34418			5.00- 9.00	6.85
3.610	3.748	-0.138	176	477709			95.00- 101.00	95.01
3.610	3.748	-0.138	177	31674			5.00- 9.00	6.63

Data File: /var/chem/msd8.i/8-30nov.b/8113001.d

Date : 30-NOV-2007 10:03

Client ID: BFB

Instrument: msd8.i

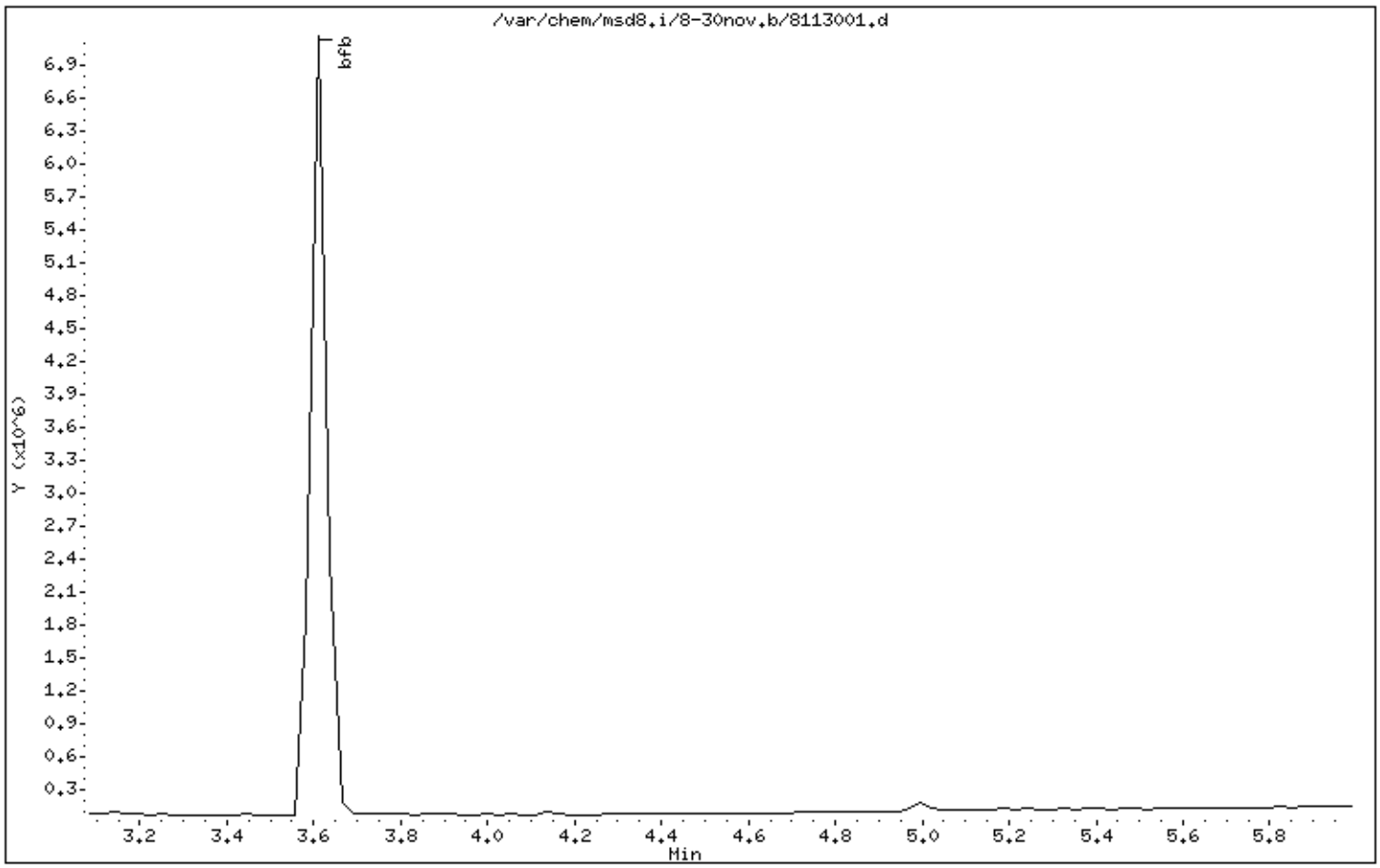
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-30nov.b/8113001.d

Date : 30-NOV-2007 10:03

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

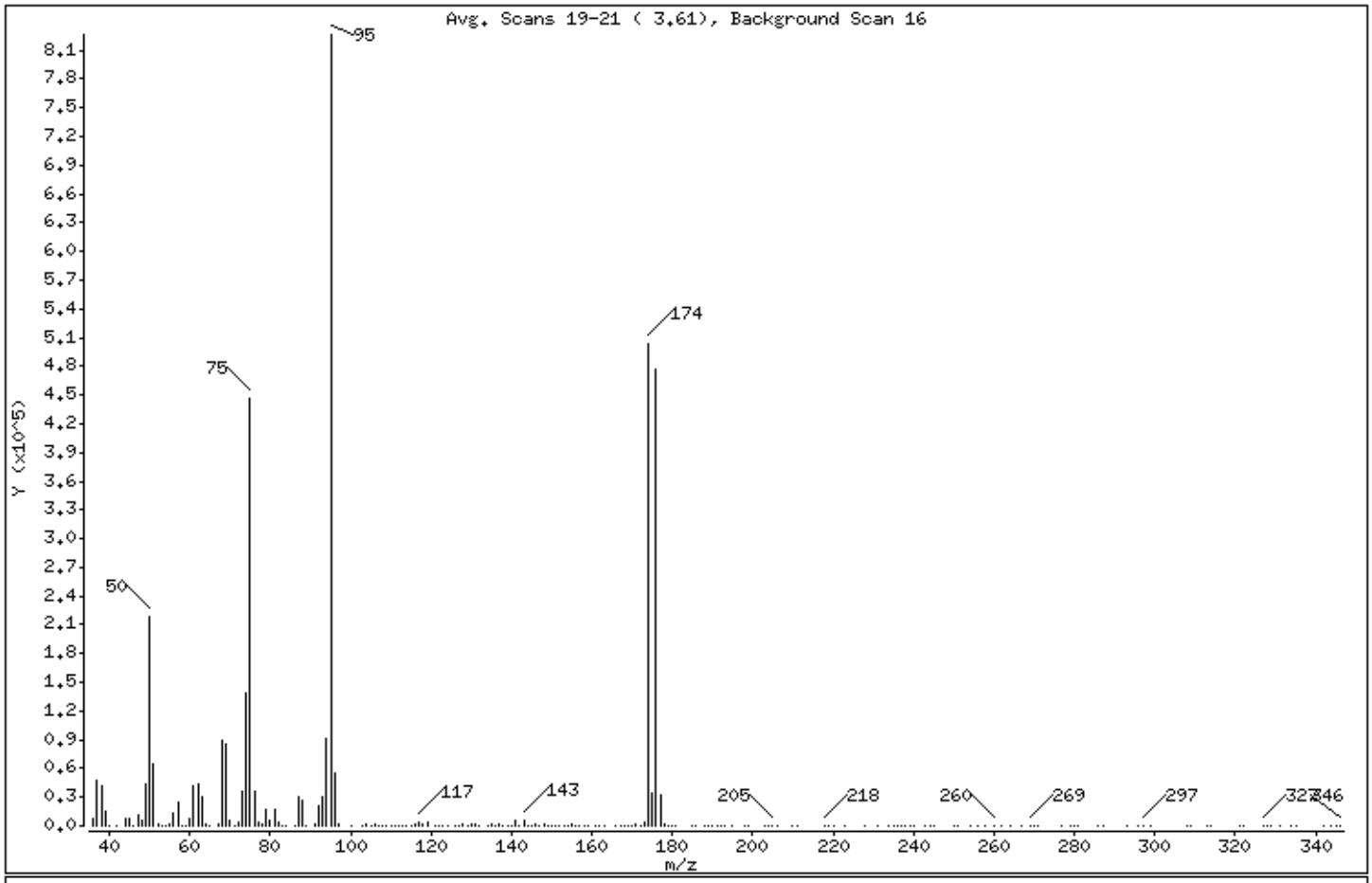
Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

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	26.37
75	30.00 - 60.00% of mass 95	53.97
96	5.00 - 9.00% of mass 95	6.61
173	Less than 2.00% of mass 174	0.49 (0.80)
174	50.00 - 100.00% of mass 95	60.83
175	5.00 - 9.00% of mass 174	4.16 (6.85)
176	95.00 - 101.00% of mass 174	57.80 (95.01)
177	5.00 - 9.00% of mass 176	3.83 (6.63)

Date : 30-NOV-2007 10:03

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8113001.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 16
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7216	92.00	21360	150.00	935	231.00	92
37.00	46768	93.00	31040	151.00	314	234.00	81
38.00	40880	94.00	90256	152.00	233	235.00	103
39.00	15990	95.00	826496	153.00	596	236.00	75
40.00	514	96.00	54664	154.00	438	237.00	80
42.00	742	97.00	1441	155.00	1544	238.00	88
44.00	6952	100.00	238	156.00	244	239.00	142
45.00	8119	103.00	24	157.00	917	240.00	76
46.00	330	104.00	2595	158.00	67	243.00	163
47.00	12278	105.00	738	159.00	579	244.00	67
48.00	5668	106.00	2297	161.00	836	245.00	147
49.00	43624	107.00	494	162.00	112	250.00	76
50.00	217856	108.00	334	163.00	281	251.00	186
51.00	65184	109.00	197	166.00	396	254.00	101
52.00	2607	110.00	453	167.00	243	256.00	69
53.00	253	111.00	278	168.00	270	258.00	155
54.00	38	112.00	103	169.00	336	260.00	338
55.00	2296	113.00	556	170.00	316	262.00	89
56.00	13379	114.00	93	171.00	969	264.00	82
57.00	25216	115.00	262	172.00	842	267.00	2
58.00	813	116.00	2659	173.00	4045	269.00	390
59.00	557	117.00	3406	174.00	502784	270.00	223
60.00	8293	118.00	1971	175.00	34416	271.00	302
61.00	42328	119.00	3237	176.00	477696	277.00	73
62.00	42928	121.00	136	177.00	31672	279.00	112
63.00	30688	122.00	203	178.00	983	280.00	191
64.00	2656	123.00	259	179.00	172	281.00	150
65.00	40	124.00	364	180.00	86	286.00	72
67.00	2172	126.00	395	181.00	186	287.00	80
68.00	89352	127.00	189	185.00	67	293.00	79
69.00	85816	128.00	2482	186.00	86	296.00	67
70.00	6173	129.00	915	188.00	75	297.00	94
71.00	84	130.00	2085	189.00	73	299.00	67
72.00	3878	131.00	1110	190.00	71	308.00	69
73.00	35304	132.00	460	191.00	87	309.00	74

Date : 30-NOV-2007 10:03

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8113001.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 16
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	139328	134.00	338	192.00	56	313.00	77
75.00	446080	135.00	1083	193.00	74	314.00	89
76.00	36656	136.00	119	195.00	43	321.00	67
77.00	3505	137.00	1235	198.00	161	322.00	64
78.00	2517	138.00	147	199.00	97	327.00	327
79.00	16720	139.00	450	203.00	74	328.00	66
80.00	5011	140.00	365	204.00	80	329.00	100
81.00	16440	141.00	6110	205.00	242	331.00	73
82.00	3713	142.00	615	206.00	94	334.00	257
83.00	509	143.00	6363	210.00	89	335.00	71
84.00	286	144.00	499	211.00	68	342.00	100
86.00	657	145.00	508	218.00	274	344.00	179
87.00	31000	146.00	1101	219.00	249	345.00	121
88.00	27448	147.00	536	220.00	212	346.00	83
89.00	609	148.00	1443	223.00	69		
91.00	2121	149.00	717	228.00	119		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-21dec.b/8122102.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-DEC-2007 09:15
Operator : cb Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-60
Comment :
Method : /var/chem/msd8.i/8-21dec.b/bfb30.m
Meth Date : 21-Dec-2007 08:54 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	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.610	3.748	-0.138	95	414537			100.00- 100.00	100.00
3.610	3.748	-0.138	50	109240			15.00- 40.00	26.35
3.610	3.748	-0.138	75	227143			30.00- 60.00	54.79
3.610	3.748	-0.138	96	27362			5.00- 9.00	6.60
3.610	3.748	-0.138	173	1988			0.00- 2.00	0.81
3.610	3.748	-0.138	174	246165			50.00- 100.00	59.38
3.610	3.748	-0.138	175	16365			5.00- 9.00	6.65
3.610	3.748	-0.138	176	239101			95.00- 101.00	97.13
3.610	3.748	-0.138	177	14690			5.00- 9.00	6.14

Data File: /var/chem/msd8.i/8-21dec.b/8122102.d

Page 1

Date : 21-DEC-2007 09:15

Client ID: BFB

Instrument: msd8.i

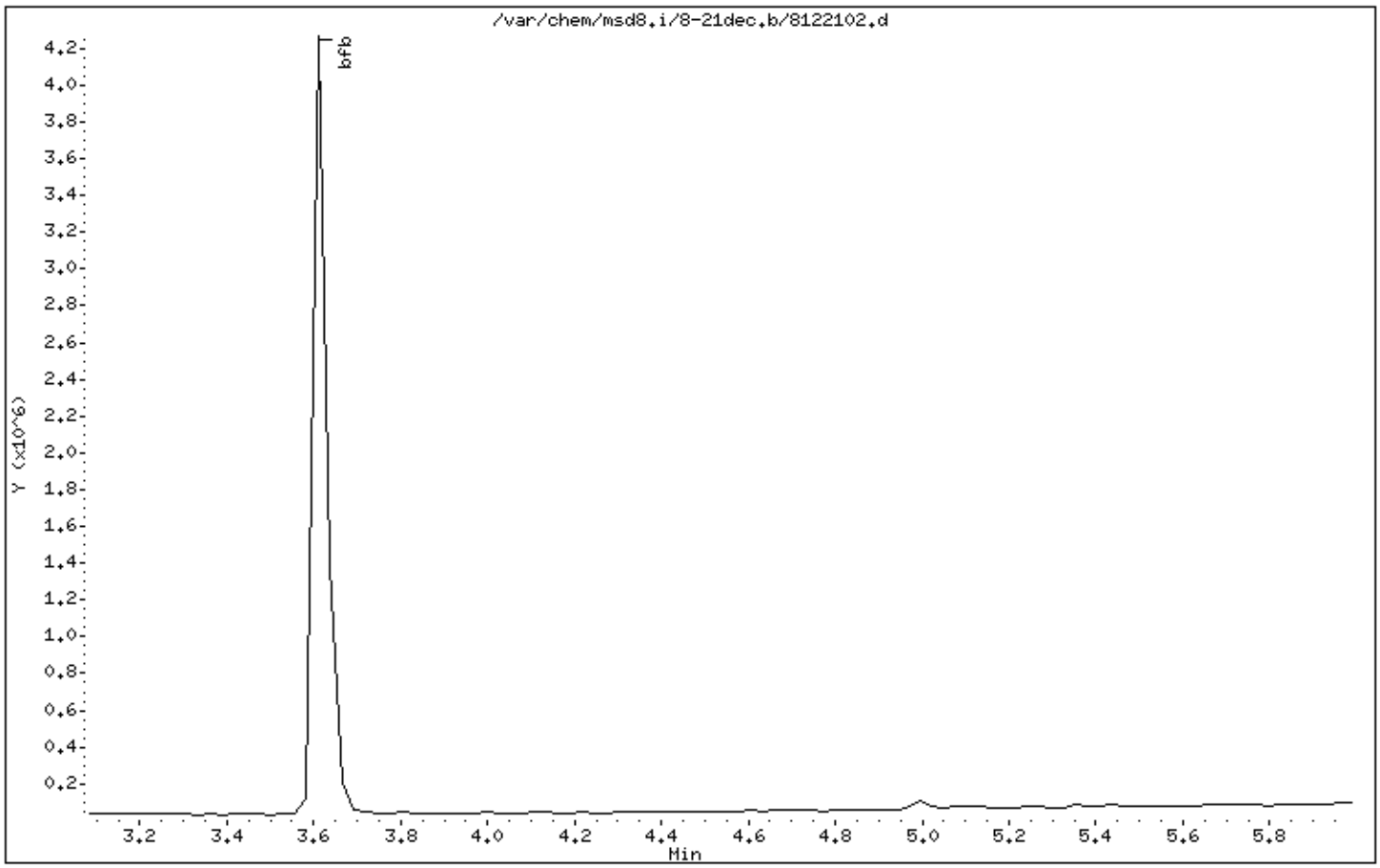
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-21dec.b/8122102.d

Date : 21-DEC-2007 09:15

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

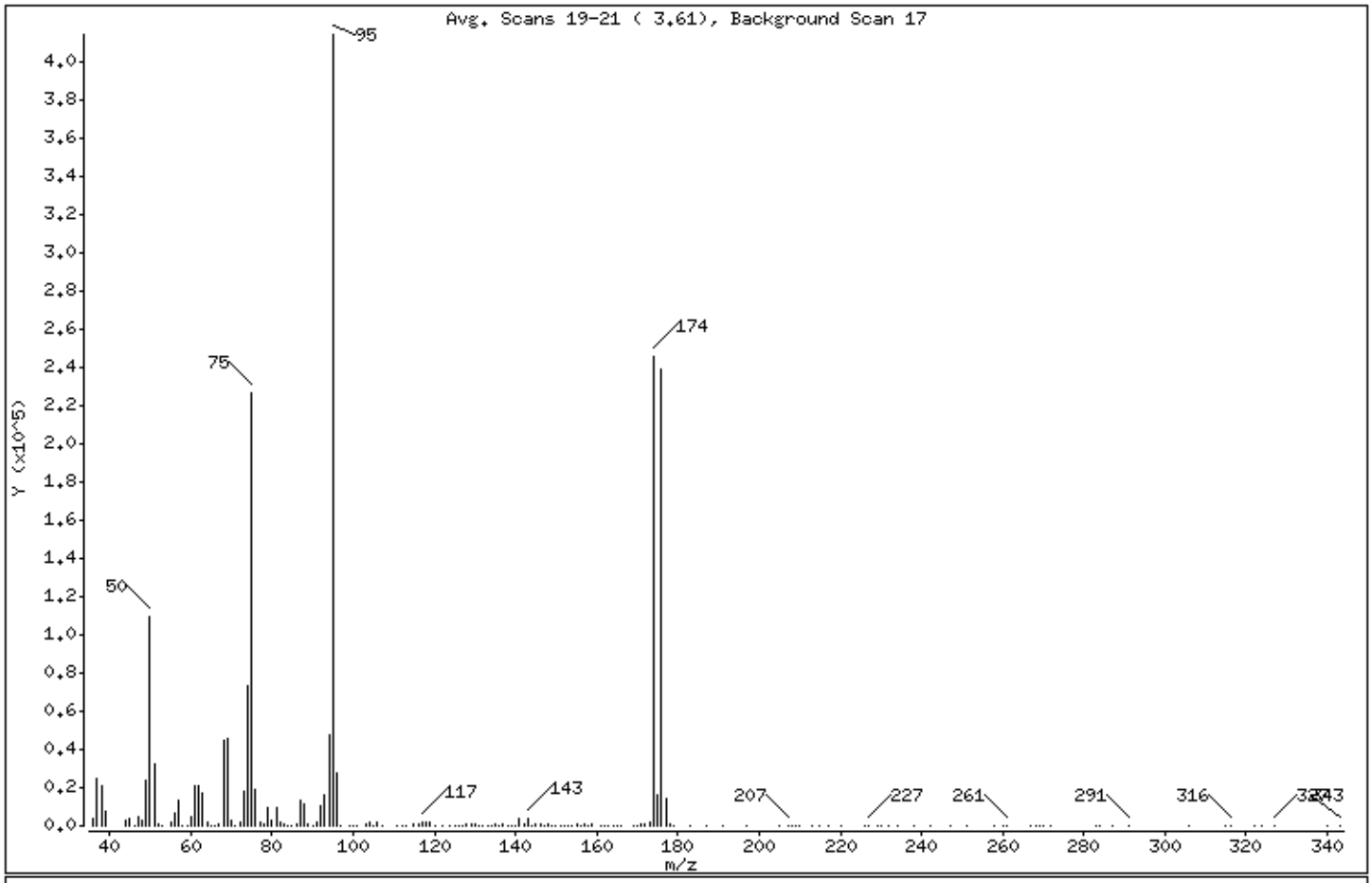
Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

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	26.35
75	30.00 - 60.00% of mass 95	54.79
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.48 (0.81)
174	50.00 - 100.00% of mass 95	59.38
175	5.00 - 9.00% of mass 174	3.95 (6.65)
176	95.00 - 101.00% of mass 174	57.68 (97.13)
177	5.00 - 9.00% of mass 176	3.54 (6.14)

Data File: /var/chem/msd8.i/8-21dec.b/8122102.d

Date : 21-DEC-2007 09:15

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

Data File: 8122102.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 17
Location of Maximum: 95.00
Number of points: 171

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3998	84.00	110	135.00	547	187.00	92
37.00	24688	85.00	86	136.00	299	191.00	107
38.00	20784	86.00	514	137.00	600	197.00	79
39.00	7615	87.00	12919	138.00	84	205.00	140
44.00	2656	88.00	11813	139.00	196	207.00	207
45.00	3631	89.00	717	140.00	160	208.00	40
46.00	56	90.00	142	141.00	3783	209.00	90
47.00	5171	91.00	1580	142.00	482	210.00	75
48.00	2746	92.00	10533	143.00	4048	213.00	108
49.00	23496	93.00	16416	144.00	306	215.00	77
50.00	109240	94.00	47336	145.00	549	217.00	70
51.00	32584	95.00	414528	146.00	586	220.00	84
52.00	1306	96.00	27360	147.00	295	226.00	71
53.00	245	97.00	408	148.00	897	227.00	158
55.00	1541	99.00	152	149.00	192	229.00	69
56.00	6397	100.00	82	150.00	435	230.00	75
57.00	13287	101.00	95	151.00	153	232.00	135
58.00	420	103.00	553	152.00	317	234.00	83
59.00	93	104.00	1547	153.00	5	238.00	68
60.00	4756	105.00	412	154.00	344	242.00	74
61.00	20864	106.00	1624	155.00	839	247.00	69
62.00	21240	107.00	238	156.00	413	251.00	77
63.00	16696	111.00	278	157.00	618	258.00	68
64.00	1519	112.00	173	158.00	128	260.00	199
65.00	261	113.00	206	159.00	504	261.00	218
66.00	74	115.00	545	161.00	437	267.00	78
67.00	1418	116.00	1191	162.00	84	268.00	71
68.00	45240	117.00	2257	163.00	157	269.00	19
69.00	45288	118.00	1528	164.00	145	270.00	25
70.00	2982	119.00	1688	165.00	70	272.00	70
71.00	37	120.00	170	166.00	68	283.00	69
72.00	2374	122.00	74	169.00	34	284.00	82
73.00	18456	124.00	69	170.00	264	287.00	86
74.00	73280	125.00	262	171.00	683	291.00	149
75.00	227136	126.00	116	172.00	917	306.00	78

Date : 21-DEC-2007 09:15

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8122102.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 17
Location of Maximum: 95.00
Number of points: 171

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	19408	127.00	361	173.00	1988	315.00	84
77.00	2020	128.00	1120	174.00	246144	316.00	85
78.00	1291	129.00	773	175.00	16365	322.00	24
79.00	9338	130.00	1381	176.00	239040	324.00	68
80.00	2889	131.00	181	177.00	14690	327.00	78
81.00	9666	132.00	10	178.00	508	340.00	69
82.00	2307	133.00	85	179.00	79	343.00	229
83.00	514	134.00	249	183.00	82		

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 #: 0712304
# of pages (Including Cover): 1

1/4/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no 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.

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

0262

Contact	
Company	GEI Consultants, Inc.
Address	455 Winding Brook Glastonbury CT 06033
Phone	860-368-5300 Cell:
Collected By: Signature:	

Project Info:

P.O. #	
Project #	061140 - 3 - 1703
Project Name	BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

- [X] Normal
- [ ] Rush _____ Specify

Lab I.D.	Field Sample I.D. (CAN #)	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	AMS 5 UW 9611S	0600/1405 12/12/07	TO-15 + Naphthalene	-30	-7	
02A	XAMSXX DW 10985	0600/1410 12/12/07	TO-15 + Naphthalene	-29.5	-8	
03A	AMS1DW B 4084	0600/1410 12/12/07	TO 15 + NAPHTHALENE	-29.5	8.5	
	33781		TRIP BLANK			

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
1500 12/12/07	VT Monica Gibson AL 12/14/07 QD
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@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8635 1257 2565	MG	NA	Good	Yes No (None)	071230 4

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0712304

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: 01/02/08
Date Completed: 12/31/07
Date Received: 12/14/07
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 1,273.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS 5 UW	Modified TO-15	12/12/2007	6.5 "Hg	$225.00
02A	XAMSXX DW	Modified TO-15	12/12/2007	7.5 "Hg	$225.00
03A	AMS1DW	Modified TO-15	12/12/2007	7.5 "Hg	$225.00
04A	TRIP BLANK	Modified TO-15	NA	4.4 psi	$225.00
05A	Lab Blank	Modified TO-15	NA	NA	$0.00
06A	CCV	Modified TO-15	NA	NA	$0.00
07A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (1) @ $50.00 each., Shipment 54019	$50.00
	6 Liter Summa Canister (100% Certified) (3) @ $65.00 each., Shipment 54	$195.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 54019	$35.00
	Blue Body Flow Controller (100% Certified) (2) @ $40.00 each., Shipmen	$80.00
	Fuel Surcharge (4) @ $2.00 each.	$8.00
	Duplicate Sampling T (1) @ $5.00 each.	$5.00

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

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

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.

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L #10985 w/ 10.2mL/min
Can#: 54019-10985
Date : 11/30/07 17:45
Data File: g113011.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
Carbon Tetrachloride	56-23-5	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
Naphthalene	91-20-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		101.00	% Recovery
Toluene-d8	2037-26-5		106.00	% Recovery
4-Bromofluorobenzene	460-00-4		104.00	% Recovery

Air Toxics LTD.

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L #4084 w/ 10.2mL/min
Can#: 54019-4084
Date : 11/30/07 19:35
Data File: g113013.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
Carbon Tetrachloride	56-23-5	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
Naphthalene	91-20-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		98.00	% Recovery
Toluene-d8	2037-26-5		100.00	% Recovery
4-Bromofluorobenzene	460-00-4		99.00	% Recovery

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1-800-985-5955

Media Certification Report

Canister Number: F112939; 6L#33781 w/9.2ml:1
Date: 11/30/2007 01:43:57

Peak #	#	Quantification	CAS	Type	Concentration	Units
	2	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		ppbv
	3	1,1-Difluoroethane	0-00-0	Not Found		ppbv
	4	Freon 12	0-00-0	Not Found		ppbv
	5	Freon 114	0-00-0	Not Found		ppbv
	7	Butane	0-00-0	Not Found		ppbv
	8	Vinyl Chloride	0-00-0	Not Found		ppbv
	9	1,3-Butadiene	0-00-0	Not Found		ppbv
	10	Bromomethane	0-00-0	Not Found		ppbv
	11	Chloroethane	0-00-0	Not Found		ppbv
	12	Isopentane	0-00-0	Not Found		ppbv
	14	Freon 11	0-00-0	Not Found		ppbv
	15	Ethanol	0-00-0	Not Found		ppbv
	16	1,1-Dichloroethene	0-00-0	Not Found		ppbv
	17	Freon 113	0-00-0	Not Found		ppbv
	18	Acrolein	0-00-0	Not Found		ppbv
	22	3-Chloropropene	0-00-0	Not Found		ppbv
	23	2-Methylpentane	0-00-0	Not Found		ppbv
	24	Methyl Acetate	0-00-0	Not Found		ppbv
	26	tert-Butyl alcohol	0-00-0	Not Found		ppbv
	27	Methyl tert-butyl ether	0-00-0	Not Found		ppbv
	28	trans-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	30	Hexane	0-00-0	Not Found		ppbv
	31	Isopropyl ether	0-00-0	Not Found		ppbv
	32	1,1-Dichloroethane	0-00-0	Not Found		ppbv
	33	Vinyl Acetate	0-00-0	Not Found		ppbv
	34	Chloroprene	0-00-0	Not Found		ppbv
	35	Ethyl-tert-butyl ether	0-00-0	Not Found		ppbv
	36	2,2-Dichloropropane	0-00-0	Not Found		ppbv
	37	cis-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	38	2-Butanone (Methyl Ethyl Ketone)	0-00-0	Not Found		ppbv
	39	Ethyl Acetate	0-00-0	Not Found		ppbv
	44	2,3-Dimethylpentane	0-00-0	Not Found		ppbv
	45	1,1,1-Trichloroethane	0-00-0	Not Found		ppbv
	46	Carbon Tetrachloride	0-00-0	Not Found		ppbv
	47	1,1-Dichloropropene	0-00-0	Not Found		ppbv
	48	2,2,4-Trimethylpentane	0-00-0	Not Found		ppbv
	51	tert-Amyl Methyl ether	0-00-0	Not Found		ppbv
	52	1,2-Dichloroethane	0-00-0	Not Found		ppbv
	53	Heptane	0-00-0	Not Found		ppbv
	54	Thiophene	0-00-0	Not Found		ppbv

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Media Certification Report

Canister Number: F112939; 6L#33781 w/9.2ml:1
Date: 11/30/2007 01:43:57

Peak #	#	Quantification	CAS	Type	Concentration	Units
	56	Trichloroethene	0-00-0	Not Found		ppbv
	57	Methylcyclohexane	0-00-0	Not Found		ppbv
	58	1,2-Dichloropropane	0-00-0	Not Found		ppbv
	59	1,4-Dioxane	0-00-0	Not Found		ppbv
	61	Bromodichloromethane	0-00-0	Not Found		ppbv
	62	cis-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	63	4-Methyl-2-pentanone	0-00-0	Not Found		ppbv
	66	trans-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	67	1,1,2-Trichloroethane	0-00-0	Not Found		ppbv
	69	2-Hexanone	0-00-0	Not Found		ppbv
	70	Dibromochloromethane	0-00-0	Not Found		ppbv
	71	1,2-Dibromoethane (EDB)	0-00-0	Not Found		ppbv
	73	Chlorobenzene	0-00-0	Not Found		ppbv
	74	Ethyl Benzene	0-00-0	Not Found		ppbv
	75	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	76	m,p-Xylene	0-00-0	Not Found		ppbv
	77	o-Xylene	0-00-0	Not Found		ppbv
	78	Styrene	0-00-0	Not Found		ppbv
	79	Bromoform	0-00-0	Not Found		ppbv
	80	Cumene	0-00-0	Not Found		ppbv
	82	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	83	Propylbenzene	0-00-0	Not Found		ppbv
	84	1,2,3-Trichloropropane	0-00-0	Not Found		ppbv
	85	4-Ethyltoluene	0-00-0	Not Found		ppbv
	86	1,3,5-Trimethylbenzene	0-00-0	Not Found		ppbv
	87	tert-Butylbenzene	0-00-0	Not Found		ppbv
	88	1,2,4-Trimethylbenzene	0-00-0	Not Found		ppbv
	89	Pentachloroethane	0-00-0	Not Found		ppbv
	90	sec-Butylbenzene	0-00-0	Not Found		ppbv
	91	p-Cymene	0-00-0	Not Found		ppbv
	92	1,3-Dichlorobenzene	0-00-0	Not Found		ppbv
	93	1,2,3-Trimethylbenzene	95-63-6	Not Found		ppbv
	94	1,4-Dichlorobenzene	0-00-0	Not Found		ppbv
	95	alpha-Chlorotoluene	0-00-0	Not Found		ppbv
	96	Indan	0-00-0	Not Found		ppbv
	97	Butylbenzene	0-00-0	Not Found		ppbv
	99	Indene	0-00-0	Not Found		ppbv
	100	Hexachloroethane	0-00-0	Not Found		ppbv
	103	Hexachlorobutadiene	0-00-0	Not Found		ppbv
	104	Naphthalene	0-00-0	Not Found		ppbv

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1-800-985-5955

Media Certification Report

Canister Number: F112939; 6L#33781 w/9.2ml:1
Date: 11/30/2007 01:43:57

Peak #	#	Quantification	CAS	Type	Concentration	Units
	105	1,2,3-Trichlorobenzene	0-00-0	Not Found		ppbv
1	1	Propylene	149180-87-0	Quantified	0.00	ppbv
3	6	Chloromethane	523-14-8	Quantified	0.00	ppbv
13	13	Vinyl bromide	509-55-7	Quantified	0.00	ppbv
17	19	Carbon Disulfide	75-15-0	Quantified	0.02	ppbv
19	20	Acetone	0-00-0	Quantified	0.04	ppbv
20	21	2-Propanol	523-14-8	Quantified	0.03	ppbv
22	25	Methylene Chloride	75-09-2	Quantified	0.03	ppbv
23	29	Acrylonitrile	86475-24-3	Quantified	0.00	ppbv
28	40	Bromochloromethane-IS	74-97-5	Quantified	5.00	ppbv
29	42	Chloroform	74-97-5	Quantified	0.00	ppbv
31	41	Tetrahydrofuran	627-27-0	Quantified	0.05	ppbv
32	43	Cyclohexane	303762-10-9	Quantified	0.01	ppbv
33	49	Benzene	0-00-0	Quantified	0.01	ppbv
34	50	1,2-Dichloroethane-d4	930-29-0	Quantified	5.66	ppbv
37	55	1,4-Difluorobenzene-IS	540-36-3	Quantified	5.00	ppbv
39	60	Dibromomethane	0-00-0	Quantified	0.00	ppbv
41	64	Toluene-D8	2037-26-5	Quantified	5.09	ppbv
42	65	Toluene	0-00-0	Quantified	0.00	ppbv
45	68	Tetrachloroethene	0-00-0	Quantified	0.00	ppbv
48	72	Chlorobenzene-d5-IS	3114-55-4	Quantified	5.00	ppbv
50	81	Bromofluorobenzene	460-00-4	Quantified	4.77	ppbv
54	98	1,2-Dichlorobenzene	55255-50-0	Quantified	0.00	ppbv
56	101	1,2-Dibromo-3-chloropropane	50267-45-3	Quantified	0.00	ppbv
57	102	1,2,4-Trichlorobenzene	182926-07-4	Quantified	0.01	ppbv

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0712304

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	NA	☐	NA	☐	Corrective Action issued - #_____
☑	☑	☐	☑	☐	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)
	NA	☐			TICs resemble reference spectra
	☐	☐			TICs between duplicate samples are consistent
NA	☑	☐	☑		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	NA		NA		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
	NA		☑		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

04A - TB

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
CB 12/22/07	R: BS 12-28-07	12/28/07	
	T:_____		

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

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

Not Applicable