eCVP

Electronic Comprehensive Validation Package

WO# 0612375

Air Toxics Ltd.

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0612375

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Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	1/5/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0612375

Work Order Summary

CLIENT:	Mr. Greg Garvey GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033	**BILL TO:**	Mr. Greg Garvey GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 Bayshore OUI S.Cell
DATE RECEIVED:	12/18/2006	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	01/03/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	UW-AMS4+100N	Modified TO-15	6.0 "Hg
02A	DW-AMS2	Modified TO-15	6.0 "Hg
02AA	DW-AMS2 Duplicate	Modified TO-15	6.0 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda L. Truman DATE: 01/04/07

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: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0612375

Two 6 Liter Summa Canister samples were received on December 18, 2006. 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.

Method modifications taken to run these samples are summarized in the below table. 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

The reported LCS for each daily batch has been derived from more than one analytical file.

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

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
UW-AMS4+100N	0612375-01A	12/14/2006	12/18/2006	NA	14	12/28/2006	NA	Good
DW-AMS2	0612375-02A	12/14/2006	12/18/2006	NA	14	12/28/2006	NA	Good
DW-AMS2 Duplicate	0612375-02AA	12/14/2006	12/18/2006	NA	14	12/28/2006	NA	Good
Lab Blank	0612375-03A	NA	NA	NA	NA	12/28/2006	NA	Good
CCV	0612375-04A	NA	NA	NA	NA	12/28/2006	NA	Good
LCS	0612375-05A	NA	NA	NA	NA	12/28/2006	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: UW-AMS4+100N

Lab ID#: 0612375-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.4	5.5	8.0	13

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS4+100N

Lab ID#: 0612375-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122809**	**Date of Collection:**	**12/14/06**
Dil. Factor:	**1.68**	**Date of Analysis:**	**12/28/06 04:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS4+100N

Lab ID#: 0612375-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122809**	**Date of Collection: 12/14/06**	
Dil. Factor:	**1.68**	**Date of Analysis: 12/28/06 04:59 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	5.5	8.0	13
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected U J	3.0	Not Detected U J
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	84	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-28dec.b/8122809.d
Lab Smp Id: 0612375-01A
Inj Date : 28-DEC-2006 16:59
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #23887
Misc Info : 6.0"Hg-5.0psi GEI
Comment :
Method : /chem/msd8.i/8-28dec.b/t14qn22d.m
Meth Date : 28-Dec-2006 15:47 jgray Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT04+Na.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	282436	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	219190			46.37- 106.37	77.61
8.029	8.029 (1.000)	49	683750			220.97- 280.97	242.09
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1084969	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	167519			0.00- 45.61	15.44
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	754941	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	439070			0.00- 30.00	58.16
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.107 (1.134)	65	430416	24.3721	24.372	80.00- 120.00	100.00
9.108	9.107 (1.134)	67	204927			0.00- 30.00	47.61
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	839298	21.0678	21.068	80.00- 120.00	100.00
12.702	12.702 (1.282)	70	98347			0.00- 30.00	11.72

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	602240			0.00- 30.00	71.76
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	458272	27.6076	27.608	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	560130			93.57- 153.57	122.23
16.573	16.573 (1.105)	176	444632			74.72- 134.72	97.02
26 Acetone					CAS #: 67-64-1		
4.656	4.628 (0.580)	58	36429	3.25352	5.466	80.00- 120.00	100.00
4.656	4.628 (0.580)	43	110623			0.00- 30.00	303.66

Report Date: 03-Jan-2007 15:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122809.d
Lab Smp Id: 0612375-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 6.0"Hg-5.0psi GEI

Calibration Date: 28-DEC-2006
Calibration Time: 12:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	339429	203657	475201	282436	-16.79
79 1,4-Difluorobenze	1314186	788512	1839860	1084969	-17.44
108 Chlorobenzene-d5	979072	587443	1370701	754941	-22.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 03-Jan-2007 15:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-28dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0612375-01A
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT04+NA-2.spk Quant Type: ISTD
Sublist File: AT04+Na.sub
Method File: /chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 6.0"Hg-5.0psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	24.372	97.49	70-130
$ 97 Toluene-d8	25.000	21.068	84.27	70-130
$ 123 Bromofluorobenzene	25.000	27.608	110.43	70-130

Data File: /chem/msd8.i/8-28dec.b/8122809.d

Date : 28-DEC-2006 16:59

Client ID:

Sample Info: 200mL #23887

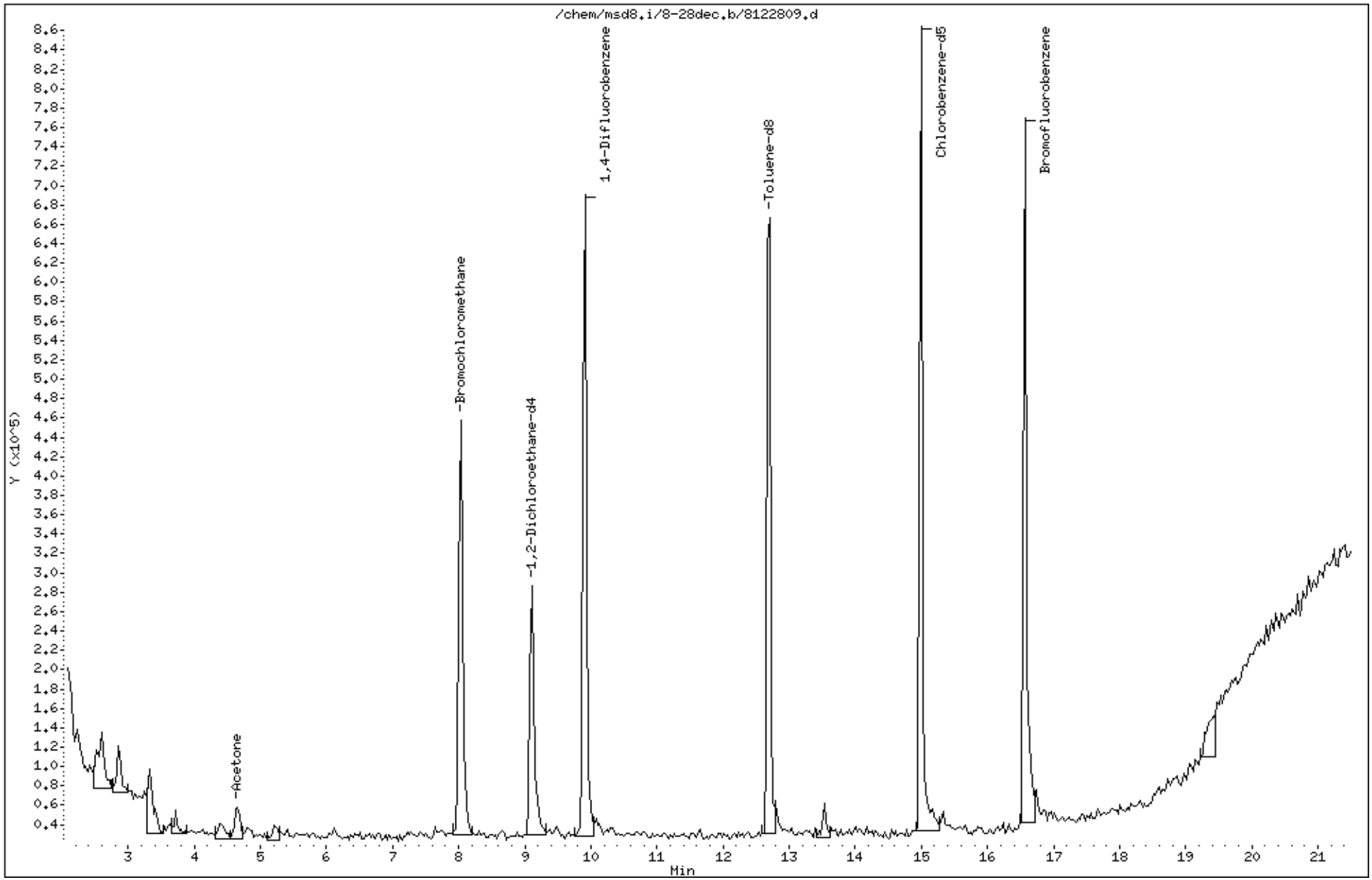
Column phase: RTx-624

Instrument: msd8.i

Operator: JG

Column diameter: 0.53

0013



Data File: /chem/msd8.i/8-28dec.b/8122809.d

Date : 28-DEC-2006 16:59

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23887

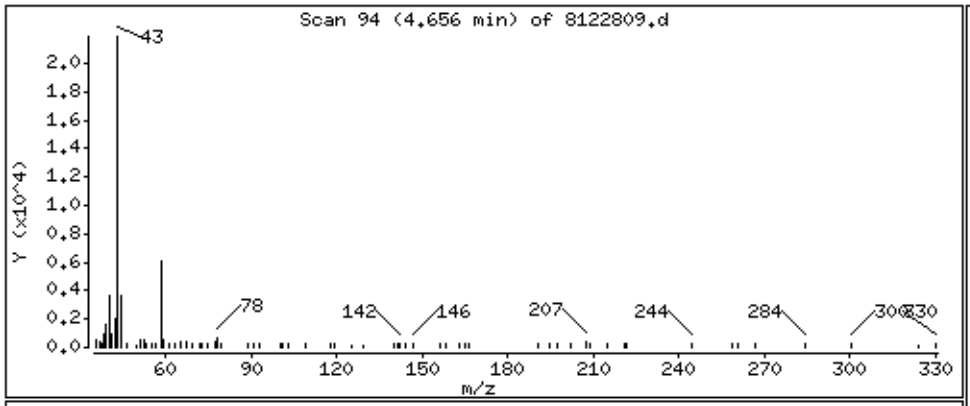
Operator: JG

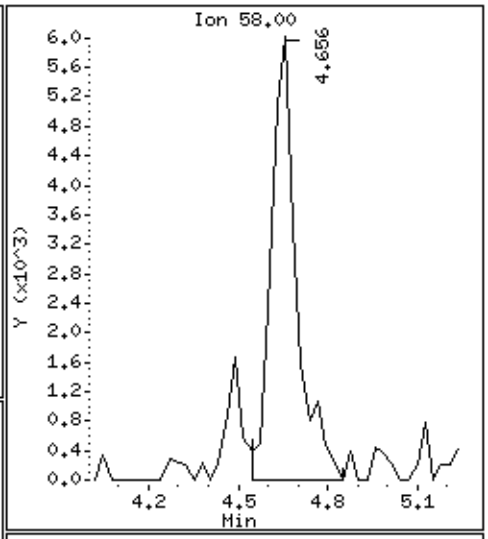
Column phase: RTx-624

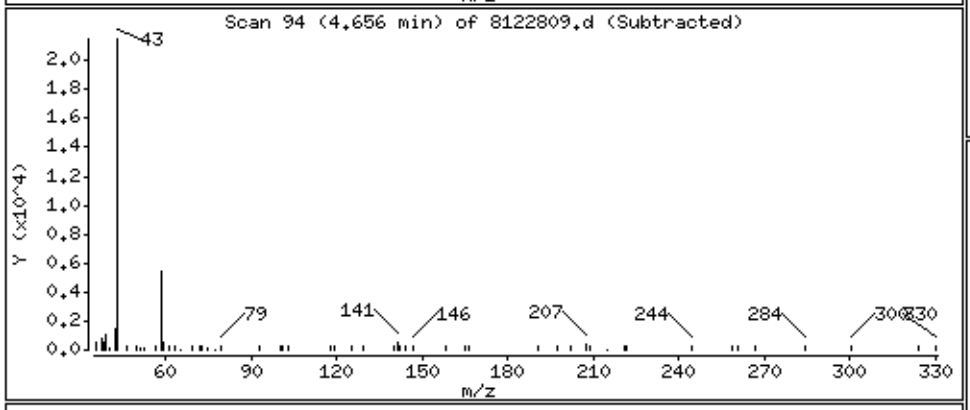
Column diameter: 0.53

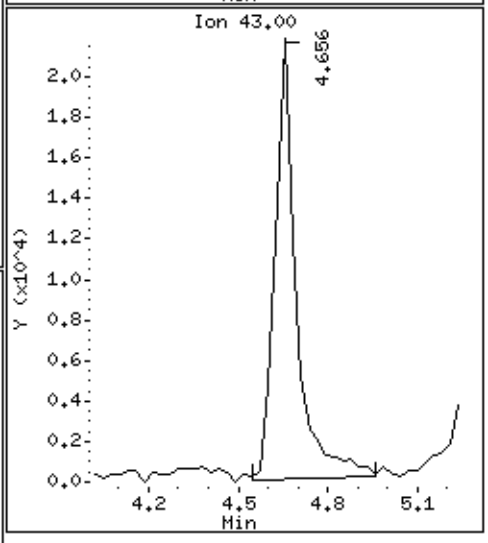
26 Acetone

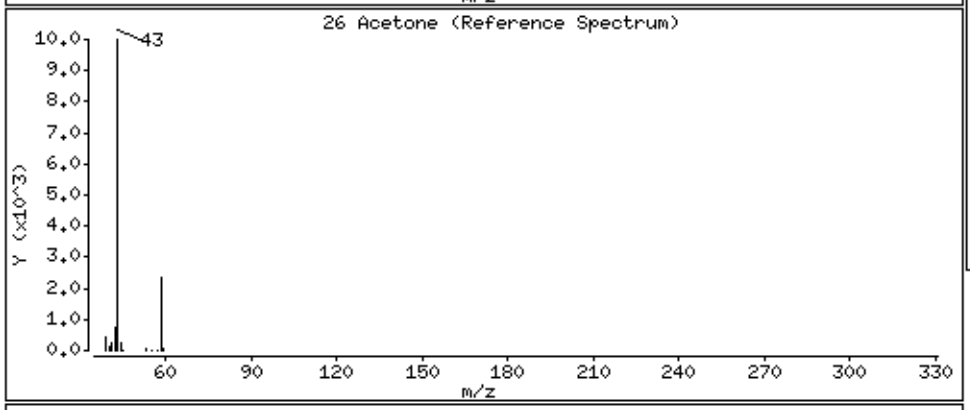
Concentration: 5.466 PPBV

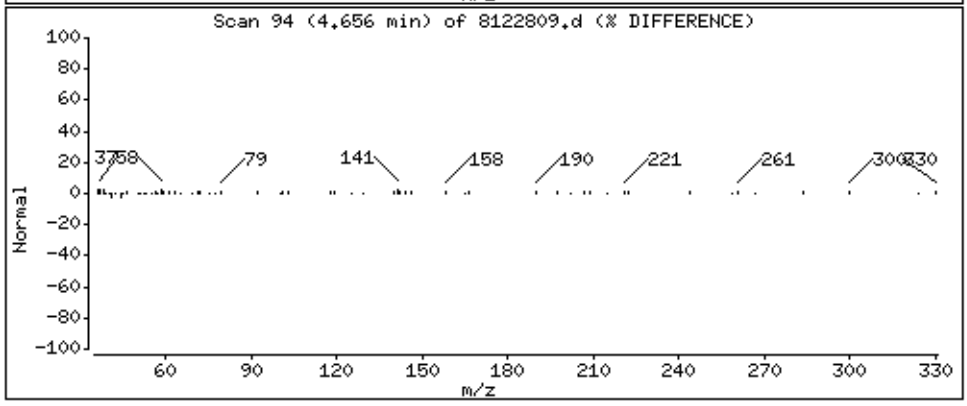












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW-AMS2

Lab ID#: 0612375-02A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS2

Lab ID#: 0612375-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122810**	**Date of Collection: 12/14/06**	
Dil. Factor:	**1.68**	**Date of Analysis: 12/28/06 05:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

0016

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS2

Lab ID#: 0612375-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122810**	**Date of Collection: 12/14/06**	
Dil. Factor:	**1.68**	**Date of Analysis: 12/28/06 05:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	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	8.0	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected U J	3.0	Not Detected U J
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	111	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-28dec.b/8122810.d
Lab Smp Id: 0612375-02A
Inj Date : 28-DEC-2006 17:41
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #11879
Misc Info : 6.0"Hg-5.0psi GEI
Comment :
Method : /chem/msd8.i/8-28dec.b/t14qn22d.m
Meth Date : 28-Dec-2006 15:47 jgray Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT04+Na.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
* 58 Bromochloromethane						CAS #: 74-97-5		
8.029	8.029 (1.000)	130	262507	25.0000			80.00- 120.00	100.00
8.029	8.029 (1.000)	128	208179				46.37- 106.37	79.30
8.029	8.029 (1.000)	49	665389				220.97- 280.97	253.47
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1035961	25.0000			80.00- 120.00	100.00
9.909	9.909 (1.000)	88	163899				0.00- 45.61	15.82
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	728197	25.0000			80.00- 120.00	100.00
14.997	14.997 (1.000)	82	426726				0.00- 30.00	58.60
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.108	9.107 (1.134)	65	411447	25.0667	25.067		80.00- 120.00	100.00
9.108	9.107 (1.134)	67	199431				0.00- 30.00	48.47
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	835910	21.9754	21.975		80.00- 120.00	100.00
12.702	12.702 (1.282)	70	94684				0.00- 30.00	11.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	547499			0.00- 30.00	65.50
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	444618	27.7687	27.769	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	565060			93.57- 153.57	127.09
16.573	16.573 (1.105)	176	455931			74.72- 134.72	102.54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122810.d
Lab Smp Id: 0612375-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 6.0"Hg-5.0psi GEI

Calibration Date: 28-DEC-2006
Calibration Time: 12:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	339429	203657	475201	262507	-22.66
79 1,4-Difluorobenze	1314186	788512	1839860	1035961	-21.17
108 Chlorobenzene-d5	979072	587443	1370701	728197	-25.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 03-Jan-2007 15:24

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-28dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0612375-02A
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT04+NA-2.spk Quant Type: ISTD
Sublist File: AT04+Na.sub
Method File: /chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 6.0"Hg-5.0psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	25.067	100.27	70-130
$ 97 Toluene-d8	25.000	21.975	87.90	70-130
$ 123 Bromofluorobenzene	25.000	27.769	111.07	70-130

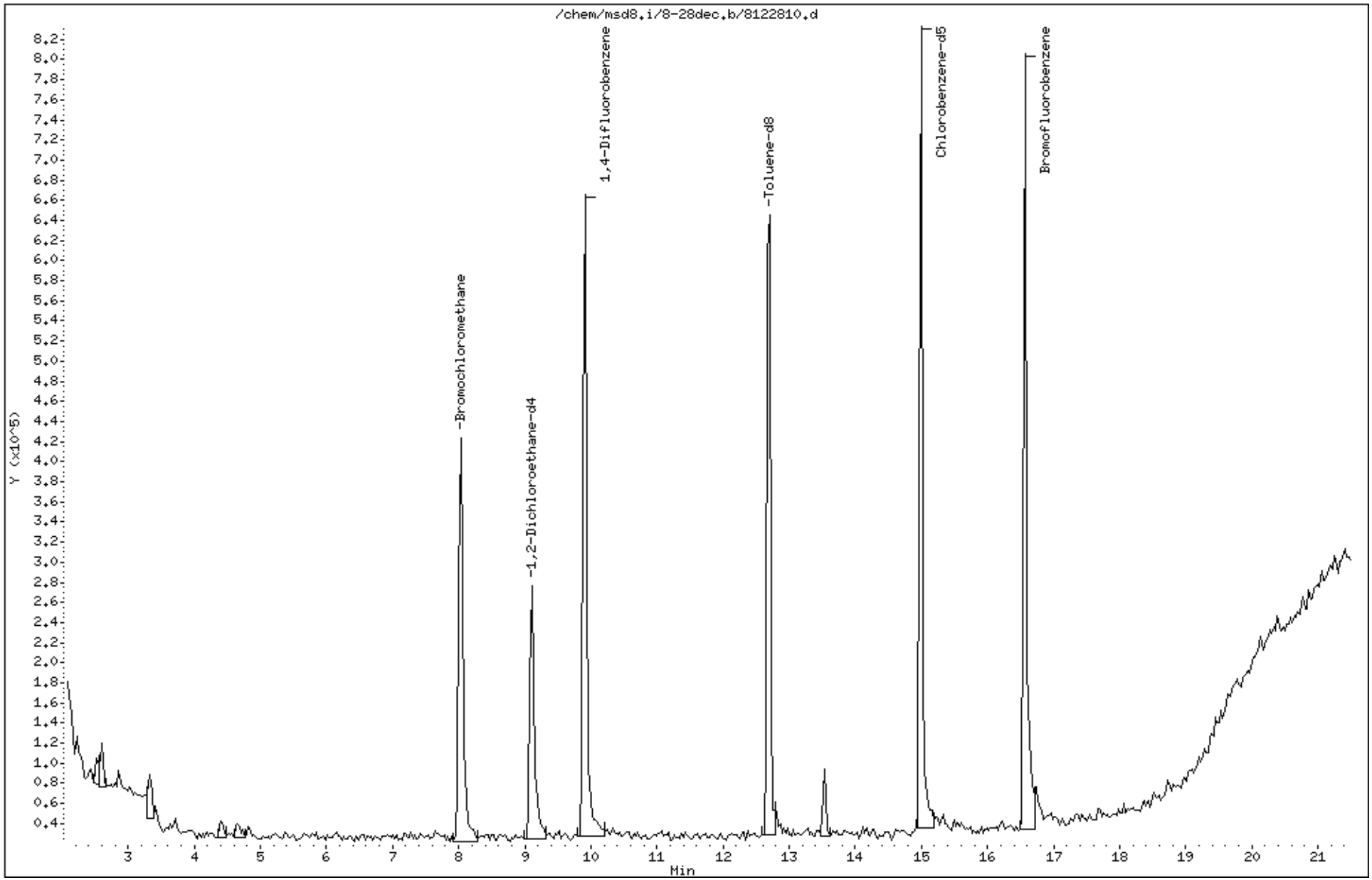
0022

Data File: /chem/msd8.i/8-28dec.b/8122810.d
Date : 28-DEC-2006 17:41
Client ID:
Sample Info: 200mL #11879

Instrument: msd8.i

Operator: JG
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: DW-AMS2 Duplicate

Lab ID#: 0612375-02AA

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS2 Duplicate

Lab ID#: 0612375-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122811**	**Date of Collection: 12/14/06**	
Dil. Factor:	**1.68**	**Date of Analysis: 12/28/06 06:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS2 Duplicate

Lab ID#: 0612375-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122811**	**Date of Collection: 12/14/06**	
Dil. Factor:	**1.68**	**Date of Analysis: 12/28/06 06:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	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	8.0	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected U J	3.0	Not Detected U J
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-28dec.b/8122811.d
Lab Smp Id: 0612375-02AA
Inj Date : 28-DEC-2006 18:23
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #11879
Misc Info : 6.0"Hg-5.0psi GEI
Comment :
Method : /chem/msd8.i/8-28dec.b/t14qn22d.m
Meth Date : 28-Dec-2006 15:47 jgray Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT04+Na.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	268684	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	215896			46.37- 106.37	80.35
8.029	8.029 (1.000)	49	627197			220.97- 280.97	233.43
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	992810	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	149699			0.00- 45.61	15.08
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	707067	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	399913			0.00- 30.00	56.56
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.107 (1.134)	65	408221	24.2984	24.298	80.00- 120.00	100.00
9.108	9.107 (1.134)	67	187362			0.00- 30.00	45.90
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	808385	22.1754	22.175	80.00- 120.00	100.00
12.702	12.702 (1.282)	70	89776			0.00- 30.00	11.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	551346			0.00- 30.00	68.20
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	420247	27.0310	27.031	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	549278			93.57- 153.57	130.70
16.573	16.573 (1.105)	176	426844			74.72- 134.72	101.57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122811.d
Lab Smp Id: 0612375-02AA
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 6.0"Hg-5.0psi GEI

Calibration Date: 28-DEC-2006
Calibration Time: 12:13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	339429	203657	475201	268684	-20.84
79 1,4-Difluorobenze	1314186	788512	1839860	992810	-24.45
108 Chlorobenzene-d5	979072	587443	1370701	707067	-27.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 03-Jan-2007 15:26

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-28dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0612375-02AA
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT04+NA-2.spk Quant Type: ISTD
Sublist File: AT04+Na.sub
Method File: /chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 6.0"Hg-5.0psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	24.298	97.19	70-130
$ 97 Toluene-d8	25.000	22.175	88.70	70-130
$ 123 Bromofluorobenzene	25.000	27.031	108.12	70-130

Data File: /chem/msd8.i/8-28dec.b/8122811.d

Page 1

Date : 28-DEC-2006 18:23

Client ID:

Instrument: msd8.i

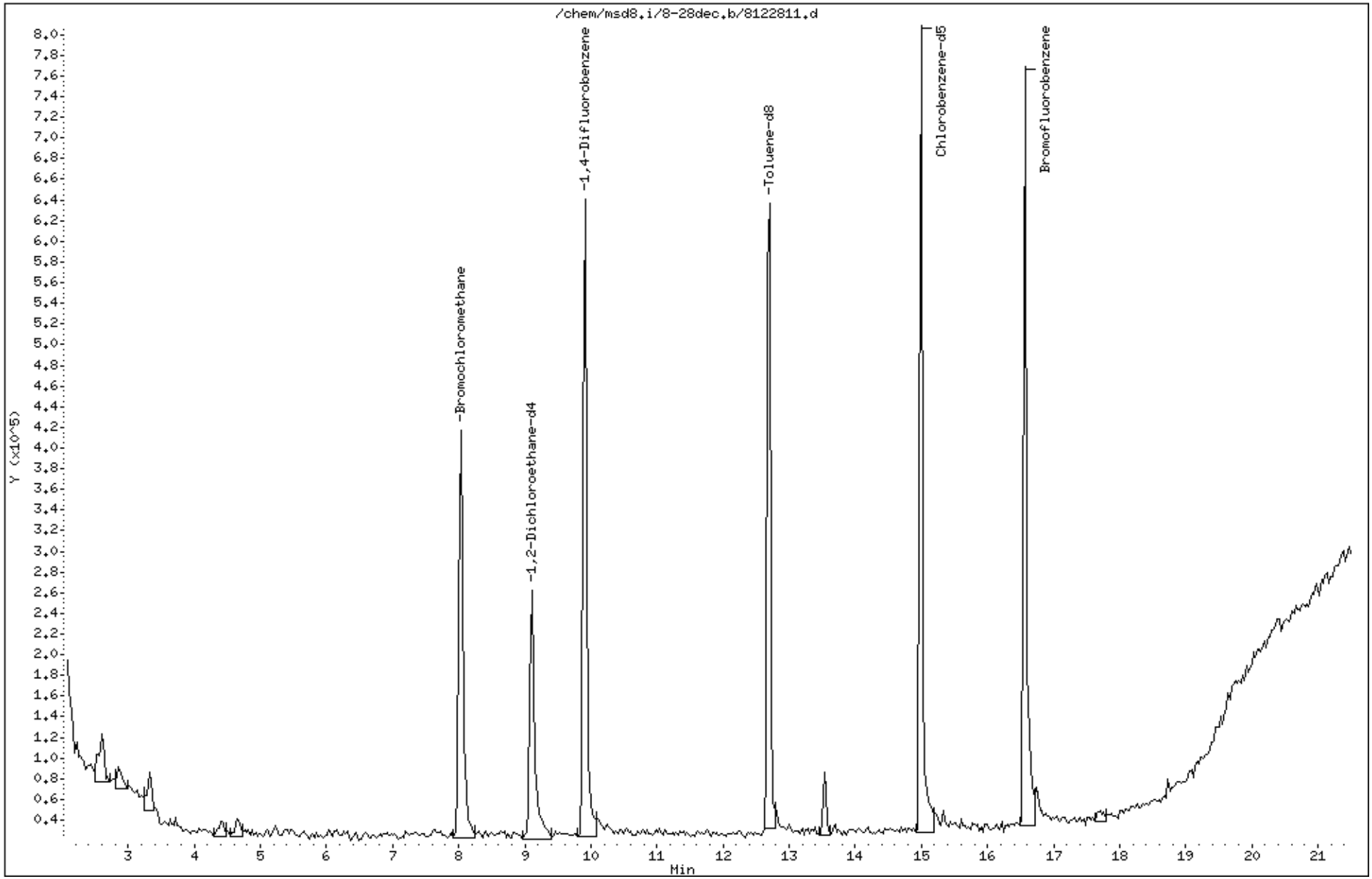
Sample Info: 200mL #11879

Operator: JG

Column phase: RTx-624

Column diameter: 0.53

0030



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0612375-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122808**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/06 03:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0612375-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122808**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/06 03:19 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 U J	1.8	Not Detected U J
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

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-28dec.b/8122808.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 28-DEC-2006 15:19
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #34027
Misc Info : Humid
Comment :
Method : /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Meth Date : 28-Dec-2006 14:17 jgray Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+Na+ENS.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	274761	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	209403			46.37- 106.37	76.21
8.029	8.029 (1.000)	49	648199			220.97- 280.97	235.91
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1043940	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	150436			0.00- 45.61	14.41
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	773347	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	434788			0.00- 30.00	56.22
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.107	9.107 (1.134)	65	407075	23.6943	23.694	80.00- 120.00	100.00
9.107	9.107 (1.134)	67	200073			0.00- 30.00	49.15
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	865858	22.5887	22.589	80.00- 120.00	100.00
12.702	12.674 (1.282)	70	94412			0.00- 30.00	10.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	583107			0.00- 30.00	67.34
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	467034	27.4658	27.466	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	580166			93.57- 153.57	124.22
16.573	16.573 (1.105)	176	456876			74.72- 134.72	97.83

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122808.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: Humid

Calibration Date: 28-DEC-2006
Calibration Time: 12:13
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	339429	203657	475201	274761	-19.05
79 1,4-Difluorobenze	1314186	788512	1839860	1043940	-20.56
108 Chlorobenzene-d5	979072	587443	1370701	773347	-21.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 28-Dec-2006 15:42

Air Toxics Ltd.

RECOVERY REPORT

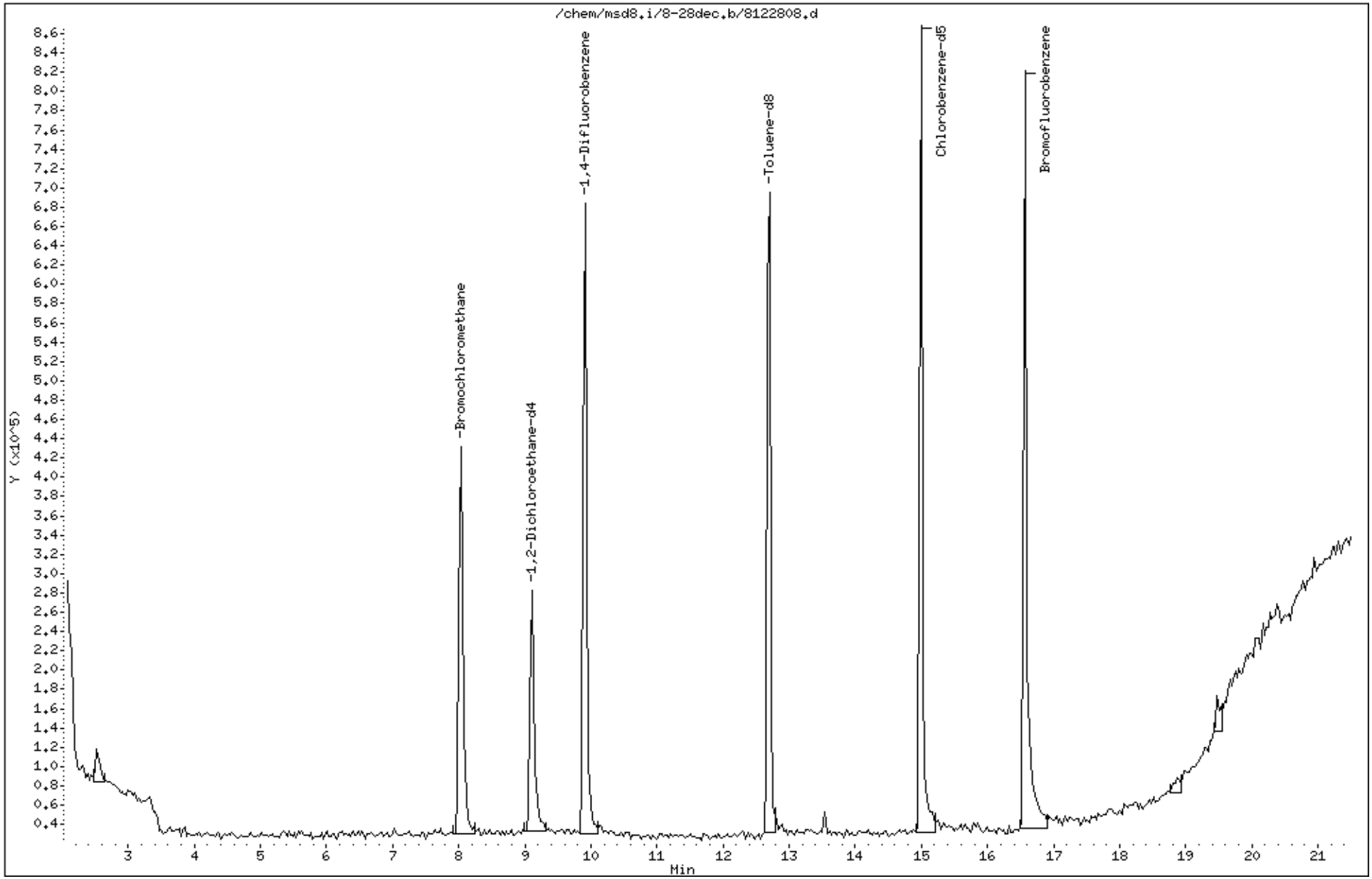
Client Name: Client SDG: 8-28dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT04+NA-2.spk Quant Type: ISTD
Sublist File: AT04+Na+ENS.sub
Method File: /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	23.694	94.78	70-130
$ 97 Toluene-d8	25.000	22.589	90.35	70-130
$ 123 Bromofluorobenzene	25.000	27.466	109.86	70-130

0038

Data File: /chem/msd8.i/8-28dec.b/8122808.d
Date : 28-DEC-2006 15:19
Client ID: Lab Blank
Sample Info: 200mL #34027

Instrument: msd8.i
Operator: JG
Column phase: RTx-624
Column diameter: 0.53



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0612375

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW-AMS4+100N	97		84		110				0
02	DW-AMS2	100		88		111				0
03	DW-AMS2 Duplicate	97		89		108				0
04	Lab Blank	95		90		110				0
05	CCV	100		93		108				0
06	LCS	109		95		121				0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0612375
Lab File ID: 8122803.d
Date Analyzed: 12/28/2006
Instrument ID: msd8.i
Time Analyzed: 12:13 PM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	979072		15		1314186		9.91		339429		8.03	
	UPPER LIMIT	1370701		15.33		1839860		10.24		475201		08.36	
	LOWER LIMIT	587443		14.67		788512		09.58		203657		07.70	
	CLIENT SAMPLE NO												
01	UW-AMS4+100N	754941		15		1084969		9.91		282436		8.03	
02	DW-AMS2	728197		15		1035961		9.91		262507		8.03	
03	DW-AMS2 Duplicate	707067		15		992810		9.91		268684		8.03	
04	Lab Blank	773347		15		1043940		9.91		274761		8.03	
05	CCV	979072		15		1314186		9.91		339429		8.03	
06	LCS	834919		15		1128470		9.91		282179		8.03	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd. Lab File ID: 8122811.d & 8122810.d

Lab Sample ID: 02A & 02AA Dilution: 1.68 & 1.68

Client Sample ID: & Date Analyzed: 12/28/06 & 12/28/06

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
71-55-6	1,1,1-Trichloroethane	ND	U	ND	U	0
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ND	U	0
79-00-5	1,1,2-Trichloroethane	ND	U	ND	U	0
75-34-3	1,1-Dichloroethane	ND	U	ND	U	0
75-35-4	1,1-Dichloroethene	ND	U	ND	U	0
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0
95-63-6	1,2,4-Trimethylbenzene	ND	U	ND	U	0
106-93-4	1,2-Dibromoethane (EDB)	ND	U	ND	U	0
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0
107-06-2	1,2-Dichloroethane	ND	U	ND	U	0
78-87-5	1,2-Dichloropropane	ND	U	ND	U	0
108-67-8	1,3,5-Trimethylbenzene	ND	U	ND	U	0
106-99-0	1,3-Butadiene	ND	U	ND	U	0
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0
123-91-1	1,4-Dioxane	ND	U	ND	U	0
540-84-1	2,2,4-Trimethylpentane	ND	U	ND	U	0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ND	U	ND	U	0
591-78-6	2-Hexanone	ND	U	ND	U	0
67-63-0	2-Propanol	ND	U	ND	U	0
107-05-1	3-Chloropropene	ND	U	ND	U	0
622-96-8	4-Ethyltoluene	ND	U	ND	U	0
108-10-1	4-Methyl-2-pentanone	ND	U	ND	U	0
67-64-1	Acetone	ND	U	ND	U	0
100-44-7	alpha-Chlorotoluene	ND	U	ND	U	0
71-43-2	Benzene	ND	U	ND	U	0
75-27-4	Bromodichloromethane	ND	U	ND	U	0
75-25-2	Bromoform	ND	U	ND	U	0
74-83-9	Bromomethane	ND	U	ND	U	0
75-15-0	Carbon Disulfide	ND	U	ND	U	0
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0
108-90-7	Chlorobenzene	ND	U	ND	U	0
75-00-3	Chloroethane	ND	U	ND	U	0
67-66-3	Chloroform	ND	U	ND	U	0
74-87-3	Chloromethane	ND	U	ND	U	0
156-59-2	cis-1,2-Dichloroethene	ND	U	ND	U	0
10061-01-5	cis-1,3-Dichloropropene	ND	U	ND	U	0
98-82-8	Cumene	ND	U	ND	U	0
110-82-7	Cyclohexane	ND	U	ND	U	0
124-48-1	Dibromochloromethane	ND	U	ND	U	0
64-17-5	Ethanol	ND	U	ND	U	0
100-41-4	Ethyl Benzene	ND	U	ND	U	0
75-69-4	Freon 11	ND	U	ND	U	0
76-13-1	Freon 113	ND	U	ND	U	0
76-14-2	Freon 114	ND	U	ND	U	0
75-71-8	Freon 12	ND	U	ND	U	0

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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: 8122811.d & 8122810.d
Lab Sample ID: 02A & 02AA
Dilution: 1.68 & 1.68
Client Sample ID: &
Date Analyzed: 12/28/06 & 12/28/06

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
142-82-5	Heptane	ND	U	ND	U	0
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0
110-54-3	Hexane	ND	U	ND	U	0
108-38-3	m,p-Xylene	ND	U	ND	U	0
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0
75-09-2	Methylene Chloride	ND	U	ND	U	0
91-20-3	Naphthalene	ND	U	ND	U	0
95-47-6	o-Xylene	ND	U	ND	U	0
103-65-1	Propylbenzene	ND	U	ND	U	0
100-42-5	Styrene	ND	U	ND	U	0
127-18-4	Tetrachloroethene	ND	U	ND	U	0
109-99-9	Tetrahydrofuran	ND	U	ND	U	0
108-88-3	Toluene	ND	U	ND	U	0
156-60-5	trans-1,2-Dichloroethene	ND	U	ND	U	0
10061-02-6	trans-1,3-Dichloropropene	ND	U	ND	U	0
79-01-6	Trichloroethene	ND	U	ND	U	0
75-01-4	Vinyl Chloride	ND	U	ND	U	0

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

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2006 22:00
End Cal Date : 15-DEC-2006 13:03
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-15dec.b/t14qn22d.m
Cal Date : 15-Dec-2006 18:18 ealcan
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd8.i/8-21nova.b/8112112.d
Level 2: /chem/msd8.i/8-21nova.b/8112121.d
Level 3: /chem/msd8.i/8-15dec.b/8121505.d
Level 4: /chem/msd8.i/8-21nova.b/8112115.d
Level 5: /chem/msd8.i/8-15dec.b/8121506.d
Level 6: /chem/msd8.i/8-21nova.b/8112117.d
Level 7: /chem/msd8.i/8-15dec.b/8121507.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	+++++	+++++	1.30184	+++++	1.10385	+++++	1.00668	1.13746	13.224
2 Dichlorodifluoromethane/Fr12	+++++	6.13538	6.63287	4.05422	3.86269	4.13546	4.00933	4.80499	25.733
3 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 114	+++++	3.54827	4.46454	3.05893	2.74325	2.77070	2.66765	3.20889	21.663
5 Chloromethane	+++++	+++++	3.67934	2.26950	2.13999	2.12987	2.10157	2.46405	27.696
6 Propylene	+++++	+++++	3.17036	2.11809	1.95614	2.00430	2.00419	2.25061	22.998
7 Butane	+++++	+++++	0.71544	0.45089	0.43411	0.43935	0.42441	0.49284	25.323

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2006 22:00
End Cal Date : 15-DEC-2006 13:03
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-15dec.b/t14qn22d.m
Cal Date : 15-Dec-2006 18:18 ealcan
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							
8 Vinyl Chloride	+++++	2.55745	2.93837	1.93754	1.82016	1.86735		
	1.81315						2.15567	22.099
9 1,3-Butadiene	+++++	2.06251	2.18462	1.47705	1.38720	1.45654		
	1.46349						1.67190	21.135
10 Bromomethane	+++++	1.74753	1.92441	1.23517	1.19566	1.19842		
	1.15321						1.40907	23.872
11 Isopentane	+++++	+++++	4.84465	3.06038	2.92412	2.97494		
	2.90916						3.34265	25.181
12 Chloroethane	+++++	1.57094	1.23552	1.02655	0.97162	1.01040		
	0.97813						1.13220	20.852
13 Trichlorofluoromethane/Fr11	+++++	4.43623	5.57161	4.03957	3.76855	3.74431		
	3.65482						4.20252	17.336
14 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
15 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
16 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
17 Ethanol	+++++	+++++	1.08590	0.80675	0.78827	0.79925		
	0.80989						0.85801	14.879

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2006 22:00
End Cal Date : 15-DEC-2006 13:03
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-15dec.b/t14qn22d.m
Cal Date : 15-Dec-2006 18:18 ealcan
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 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Freon123a	+++++	+++++	0.87875	+++++	0.65167	+++++	0.58882	0.70641	21.591
20 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 2,6-Dimethyl-1-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Freon123	+++++	+++++	2.00025	+++++	1.53708	+++++	1.37050	1.63594	19.946
23 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Freon 113	+++++	2.72025	3.51737	2.39715	2.29916	2.25993	2.14626	2.55669	19.928
25 1,1-Dichloroethene	+++++	3.74389	4.24226	2.86081	2.81440	2.82099	2.74513	3.20458	19.718
26 Acetone	+++++	+++++	1.40943	0.89307	0.85613	0.89476	0.90207	0.99109	23.665

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2006 22:00
End Cal Date : 15-DEC-2006 13:03
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-15dec.b/t14qn22d.m
Cal Date : 15-Dec-2006 18:18 ealcan
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	
27 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Carbon Disulfide	+++++	4.07086	5.29602	3.78757	3.60400	3.58866	3.48486	3.97200	17.136	
30 2-Propanol	+++++	+++++	4.56468	3.42768	3.43687	3.59413	3.55686	3.71604	12.916	
31 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
32 3-Chloropropene	+++++	+++++	0.99822	0.68751	0.68129	0.68935	0.66740	0.74475	19.060	
33 Methylene Chloride	+++++	3.32625	3.71842	2.55643	2.46440	2.47617	2.41095	2.82544	19.672	
34 MTBE	+++++	4.50101	2.52152	2.61938	2.18457	1.98402	1.60375	2.56904	39.540	<-
35 trans-1,2-Dichloroethene	+++++	1.80695	2.05755	1.47724	1.34391	1.34862	1.30466	1.55649	19.737	
36 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2006 22:00
End Cal Date : 15-DEC-2006 13:03
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-15dec.b/t14qn22d.m
Cal Date : 15-Dec-2006 18:18 ealcan
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
37 Vinyl Bromide	+++++	+++++	0.83703	+++++	0.85097	+++++	0.92489	0.87096	5.422
38 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Hexane	+++++	3.64061	4.51371	3.32122	3.20429	3.23845	3.13742	3.50928	14.895
41 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 1,1-Dichloroethane	+++++	3.56878	4.27710	2.96004	2.82545	2.87097	2.74942	3.20863	18.725
45 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Vinyl Acetate	+++++	+++++	0.42648	0.29552	0.32527	0.34543	0.34615	0.34777	13.969

Air Toxics Ltd.

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Method file : /chem/msd8.i/8-15dec.b/t14qn22d.m
Cal Date : 15-Dec-2006 18:18 ealcan
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
47 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Acetonitrile	+++++	+++++	1.39307	+++++	0.87180	+++++	0.84772	1.03753	29.699
52 tert-Butyl-Alcohol	+++++	+++++	4.03796	+++++	3.01811	+++++	1.91769	2.99125	35.450
53 cis-1,2-Dichloroethene	+++++	3.07005	3.65610	2.45982	2.35399	2.38106	2.26113	2.69703	20.462
54 2-Butanone	+++++	0.90584	1.03237	0.69185	0.67525	0.68408	0.66762	0.77617	19.960
55 Acrylonitrile	+++++	+++++	0.97517	+++++	1.38907	+++++	1.46850	1.27758	20.734
56 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Cal Date : 15-Dec-2006 18:18 ealcan
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
57 Tetrahydrofuran	+++++	3.63051	3.79863	2.65270	2.57967	2.61672	2.55150	2.97162	19.482
59 Chloroform	+++++	2.93133	3.13100	2.46917	2.33375	2.35128	2.25203	2.57810	14.090
60 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Isopropyl ether	+++++	+++++	8.86189	+++++	7.89683	+++++	7.63892	8.13255	7.927
62 Cyclohexane	+++++	2.60162	2.70744	2.04145	1.94761	1.95869	1.84627	2.18385	17.003
63 1,1,1-Trichloroethane	+++++	3.52566	3.79965	2.84205	2.63438	2.63205	2.54234	2.99602	17.782
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Carbon Tetrachloride	+++++	3.08530	3.97808	2.81360	2.71030	2.69151	2.62592	2.98412	17.193
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Ethyl-tert-butyl Ether	+++++	+++++	3.61450	+++++	4.86755	+++++	3.67158	4.05121	17.465

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Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
68 2,2,4-Trimethylpentane	+++++	12.57028	15.81306	11.09645	10.55209	10.77911		
	10.15254						11.82726	17.937
69 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
70 Benzene	1.73495	1.24808	1.34702	0.98663	0.95133	0.91530		
	0.90015						1.15478	26.787
72 1,2-Dichloroethane	+++++	0.54410	0.65784	0.53748	0.49739	0.48808		
	0.47135						0.53271	12.680
73 Ethyl Acetate	+++++	+++++	0.36187	+++++	0.27204	+++++		
	0.28643						0.30678	15.727
74 2,2-Dichloropropane	+++++	+++++	1.30676	+++++	1.87450	+++++		
	1.52655						1.56927	18.242
75 Heptane	+++++	0.16016	0.18954	0.13123	0.12671	0.12731		
	0.11952						0.14241	18.997
76 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
77 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
78 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Cal Date : 15-Dec-2006 18:18 ealcan
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
80 Trichloroethene	+++++	0.44519	0.49737	0.40365	0.38296	0.37252	0.35503	0.40945	12.954
81 Methyl Cyclohexane	+++++	3.07489	3.25958	2.55099	2.45589	2.44547	2.38935	2.69603	13.845
82 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 1,2-Dichloropropane	+++++	0.59176	0.54629	0.40334	0.37593	0.37320	0.36648	0.44283	22.490
84 tert-amyl-Methyl Ether	+++++	+++++	3.31429	+++++	3.34142	+++++	2.66747	3.10773	12.276
85 1,4-Dioxane	+++++	+++++	0.32304	0.22795	0.22671	0.21852	0.21810	0.24286	18.548
86 Bromodichloromethane	+++++	0.55553	0.67761	0.58430	0.56125	0.54876	0.54785	0.57922	8.633
87 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,3-Dichloropropene	+++++	0.57804	0.54571	0.47618	0.46332	0.46336	0.46121	0.49797	10.206
92 4-Methyl-2-pentanone	+++++	0.34882	0.41088	0.37221	0.37414	0.38431	0.38123	0.37860	5.321
93 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Dibromomethane	+++++	+++++	0.39599	+++++	0.30991	+++++	0.29571	0.33387	16.253
191 Pentachloroethane	+++++	+++++	0.54537	+++++	0.52826	+++++	0.50744	0.52702	3.605
99 Toluene	+++++	1.08802	1.41966	1.07020	1.03030	1.01807	0.98701	1.10221	14.489

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Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
100 trans-1,3-Dichloropropene	+++++	0.51779	0.69717	0.58210	0.56273	0.56434		
	0.55482						0.57983	10.570
101 1,1,2-Trichloroethane	+++++	0.54096	0.61441	0.44101	0.41974	0.42637		
	0.39631						0.47313	18.066
102 Tetrachloroethene	+++++	0.71350	0.85042	0.61362	0.57702	0.57309		
	0.55048						0.64636	17.855
103 2-Hexanone	+++++	+++++	0.66419	0.56674	0.58513	0.62457		
	0.62938						0.61400	6.273
104 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 Dibromochloromethane	+++++	0.57121	0.82836	0.66630	0.67001	0.68148		
	0.67433						0.68195	12.118
106 1,2-Dibromoethane	+++++	0.63208	0.85518	0.67176	0.62579	0.63636		
	0.61566						0.67281	13.578
107 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
109 Chlorobenzene	+++++	1.40887	1.43265	1.08312	1.02728	1.01506		
	0.96712						1.15568	18.064
110 1,3-Dichloropropane	+++++	+++++	0.46971	+++++	0.47364	+++++		
	0.44051						0.46128	3.924

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Cal Date : 15-Dec-2006 18:18 ealcan
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							
111 Ethyl Benzene	+++++	0.66878	0.74530	0.57656	0.55869	0.56008		
	0.54172						0.60852	13.280
112 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
113 m,p-Xylene	1.11152	0.75037	0.93937	0.70863	0.68746	0.68319		
	0.64001						0.78865	21.858
114 o-Xylene	+++++	0.73277	0.85862	0.70624	0.65863	0.64156		
	0.62058						0.70307	12.342
115 Styrene	1.28452	0.72898	0.93445	0.93074	0.92696	0.96681		
	0.95695						0.96135	17.057
116 Nonane	+++++	+++++	1.86430	+++++	1.72234	+++++		
	1.55073						1.71246	9.169
117 1,1,1,2-Tetrachloroethane	+++++	+++++	0.52571	+++++	0.52921	+++++		
	0.49136						0.51543	4.058
118 Bromoform	+++++	0.49510	0.62347	0.54690	0.57740	0.60853		
	0.61042						0.57697	8.450
119 Cumene	3.52905	2.46792	3.22026	2.42011	2.29178	2.26538		
	1.51733						2.53026	26.229
120 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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
121 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
122 Cyclohexanone	+++++	+++++	0.59000	+++++	0.59562	+++++	0.62914	0.60492	3.499
124 1,1,2,2-Tetrachloroethane	+++++	1.00883	1.24066	0.87988	0.82017	0.82988	0.78743	0.92780	18.520
125 Propylbenzene	+++++	2.49482	3.30922	2.50983	2.38915	2.39680	1.99683	2.51611	17.136
126 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
127 4-Ethyltoluene	+++++	1.94087	2.69814	2.04886	1.96909	2.01386	1.82025	2.08185	14.984
128 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
129 1,3,5-Trimethylbenzene	+++++	1.52356	2.24413	1.70458	1.63347	1.62990	1.36422	1.68331	17.775
130 Bromobenzene	+++++	+++++	0.67975	+++++	0.60611	+++++	0.53260	0.60615	12.138
131 1,2,4-Trimethylbenzene	+++++	1.63107	2.17639	1.52964	1.49498	1.47256	1.42483	1.62158	17.296

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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
132 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 1,2,3-Trichloropropane	+++++	+++++	0.36096	+++++	0.29870	+++++	0.27446	0.31137	14.331
134 2-Chlorotoluene	+++++	+++++	0.58944	+++++	0.49969	+++++	0.45591	0.51501	13.217
135 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 4-Chlorotoluene	+++++	+++++	0.51618	+++++	0.45279	+++++	0.43325	0.46740	9.275
138 1,3-Dichlorobenzene	+++++	0.96501	1.27299	0.97124	0.95820	0.97227	0.95803	1.01629	12.389
139 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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							
142 1,4-Dichlorobenzene	+++++	1.28971	1.73424	1.22206	1.12046	1.05265		
	1.02396						1.24052	21.117
143 tert-Butylbenzene	+++++	+++++	2.43730	+++++	2.34789	+++++		
	2.14312						2.30944	6.530
144 alpha-Chlorotoluene	+++++	0.98912	1.47687	1.25167	1.32575	1.43452		
	1.39758						1.31258	13.526
145 sec-Butylbenzene	+++++	+++++	2.99430	+++++	2.61288	+++++		
	2.22471						2.61063	14.740
146 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
147 1,2-Dichlorobenzene	+++++	1.07228	1.25782	0.96340	0.91368	0.93864		
	0.88390						1.00495	13.901
148 p-Cymene	+++++	+++++	0.69661	+++++	0.62052	+++++		
	0.59100						0.63604	8.567
149 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 1,2,3-Trimethylbenzene	+++++	+++++	0.92845	+++++	0.76288	+++++		
	0.72739						0.80624	13.310
151 Butylbenzene	+++++	+++++	0.52103	+++++	0.48291	+++++		
	0.45092						0.48496	7.238

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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	
152 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
153 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.54576	+++++	0.61198	+++++	0.63027	0.59600	7.460	
155 1,2,4-Trichlorobenzene	+++++	+++++	1.13628	0.78632	0.76517	0.84075	0.82583	0.87087	17.386	
156 Hexachlorobutadiene	+++++	+++++	0.94713	0.55761	0.51876	0.51541	0.49090	0.60596	31.720	<-
157 Naphthalene	+++++	+++++	4.88155	2.90865	2.95424	3.06965	2.61710	3.28624	27.608	
192 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
159 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
193 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Cal Date : 15-Dec-2006 18:18 ealcan
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							
160 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
162 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
187 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
188 1,1-Dichloropropene	+++++	+++++	0.85360	+++++	0.73247	+++++		
	0.65464						0.74690	13.424
$ 71 1,2-Dichloroethane-d4	1.54303	1.48440	1.57943	1.53791	1.49665	1.62726		
	1.67374						1.56320	4.391
$ 97 Toluene-d8	0.89384	0.87119	0.87022	0.93502	0.93976	0.96146		
	0.95417						0.91795	4.223
$ 123 Bromofluorobenzene	0.53843	0.54020	0.53092	0.52166	0.54721	0.58568		
	0.58377						0.54970	4.589

Calibration History

Method : /chem/msd8.i/8-15dec.b/t14qn22d.m
Start Cal Date: 21-NOV-2006 22:00
End Cal Date : 15-DEC-2006 13:03

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
21-NOV-2006 22:00	AFCEElow	/chem/msd8.i/8-21nova.b/8112112.d
Cal Level: 2 , Cal Amount: 0.50000		
22-NOV-2006 09:52	ICALlevel2	/chem/msd8.i/8-21nova.b/8112121.d
Cal Level: 3 , Cal Amount: 2.00000		
15-DEC-2006 12:02	sp4c	/chem/msd8.i/8-15dec.b/8121505.d
14-DEC-2006 11:58	sp3c	/chem/msd8.i/8-14dec.b/8121405.d
27-NOV-2006 14:07	sp23b	/chem/msd8.i/8-27nov.b/8112707.d
21-NOV-2006 22:58	AT04mdl+Na+ENSR	/chem/msd8.i/8-21nova.b/8112114.d
Cal Level: 4 , Cal Amount: 25.00000		
21-NOV-2006 23:26	AT04mdl+Na+ENSR	/chem/msd8.i/8-21nova.b/8112115.d
Cal Level: 5 , Cal Amount: 50.00000		
15-DEC-2006 12:30	sp4c	/chem/msd8.i/8-15dec.b/8121506.d
14-DEC-2006 12:26	sp3c	/chem/msd8.i/8-14dec.b/8121406.d
27-NOV-2006 14:35	sp23b	/chem/msd8.i/8-27nov.b/8112708.d
21-NOV-2006 23:55	AT04mdl+Na+ENSR	/chem/msd8.i/8-21nova.b/8112116.d
Cal Level: 6 , Cal Amount: 100.00000		
22-NOV-2006 00:24	AT04mdl+Na+ENSR	/chem/msd8.i/8-21nova.b/8112117.d
Cal Level: 7 , Cal Amount: 200.00000		
15-DEC-2006 13:03	sp4c	/chem/msd8.i/8-15dec.b/8121507.d

14-DEC-2006 12:59	sp3c	/chem/msd8.i/8-14dec.b/8121407.d
27-NOV-2006 15:09	sp23b	/chem/msd8.i/8-27nov.b/8112709.d
22-NOV-2006 00:57	AT04mdl+Na+ENSR	/chem/msd8.i/8-21nova.b/8112118.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
15-DEC-2006 10:00	AT04+Na+ENS	/chem/msd8.i/8-15dec.b/8121502.d
Ccal Level: 5 , Ccal Amount: 50.000		
15-DEC-2006 15:10	sp1cCCV	/chem/msd8.i/8-15dec.b/8121510.d
Ccal Level: 5 , Ccal Amount: 50.000		
15-DEC-2006 14:32	sp23bCCV	/chem/msd8.i/8-15dec.b/8121509.d
Ccal Level: 5 , Ccal Amount: 50.000		
15-DEC-2006 13:42	sp1cCCV	/chem/msd8.i/8-15dec.b/8121508.d
Ccal Level: 5 , Ccal Amount: 50.000		
15-DEC-2006 12:30	sp4cCCV	/chem/msd8.i/8-15dec.b/8121506a.d
Ccal Level: 5 , Ccal Amount: 50.000		
15-DEC-2006 12:30	sp4c	/chem/msd8.i/8-15dec.b/8121506.d

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MSD-8

Logbook #: 1478

0062

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	30.04
75	30.0 – 60.0% of mass 95	47.93
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.71
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	64.28
175	5.0 – 9.0% of mass 174	(7.94)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.38)[1]
177	5.0 – 9.0% of mass 176	(6.44)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 11/21/06

BFB Injection Time: 1624

BFB File ID: B112109

Tekmar Purge Flow: 2

Vacuum: OK 11/22/06

IS/S Std.#:	1408 - 200	Exp. Date: 2/14/07
BCM	4894478	
1,4-DFB	1959876	
CB-d5	1558376	

Verified CCV IS vs ICAL mid-point (- 40%D) DT 11/27/06 (initials)

Verify 176/174 m/z Ratio: 2057728/2135040 X100 = 96.38%

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\text{DT } 11/27/06)}{(\quad)} =$

Reported Result

File ID:	
Compound:	
Initials:	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	B112109	BFB Tune Check	8443 2787	50 ng	2 mL	1.00	DT	11/21/06	1624	KR	
2	X	10	System Blank	22499	Humid	200 mL		KR		2006	KR	
3	✓	11	↓	↓	↕	↓				2039	KR	
4	✓	12	ICAL #1408-220	200 ppbv	0.2 ppbv	0.2 mL				2200	BJ	Level 1
5	X	13			0.5 ppbv	0.5 mL				2229	BJ	Level 2
6	✓	14			2.0 ppbv	2.0 mL				2258	BJ	Level 3
7	✓	15			25 ppbv	25 mL				2326	BJ	Level 4
8	✓	16			50 ppbv	50 mL			↓	2355	BJ	Level 5
9	✓	17	↓	↓	100 ppbv	100 mL	↓	↓	11-22-06	0024	BJ	Level 6

Signature

11/22/06
Date

10	✓	8/12/18	ICAL #1408-220	200ppbv →	200ppbv	200mL	1.00	KR	11-27-06	0857	BS	Level 7	
11	X	19	System Blank	22469	Humid	200mL	1.00	BS	↑	0836	↓		
12	X	20	↓	↑	↑	↑	↑	↑	↑	0909	↓		
13	✓	↓ 21	ICAL #1408-220	200ppbv →	0.5ppbv	0.5mL	↑	↓	11/22/06	0952	↓	Level 2	
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													

11/22/06

0900

Comments:

Signature

11/22/06
Date

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MSD-8

Logbook #: 1478

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	30.33
75	30.0 – 60.0% of mass 95	48.00
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.59
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	65.89
175	5.0 – 9.0% of mass 174	(7.87)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.10)[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: 11/22/06
BFB Injection Time: 1104
BFB File ID: 8112201
Tekmar Purge Flow: —
Vacuum: — Or 11/22/06

IS/S Std.#: 1408-200	Exp. Date: 2/14/07
BCM	571855
1,4-DFB	2376602
CB-d5	1839535

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

Verify 176/174 m/z Ratio: 1890766/1988191 - 100 = 95.10%

NOAH Cart #: 5 **File #:** F112212

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(2659813)}{(2376602)} \times \frac{(25)}{(0.91795)} = 24.750$

Reported Result 24.750

File ID:	8112202
Compound:	Toluene-d8
Initials:	Or

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	8112201	BFB Tune Check	943-2787	50ng	2µL	1.00	Or	11/22/06	1104	Or	
2	✓	02	CCV #1408-220	200ppbv	50ppbv	90mL	1.00	Or	11/22/06	1124	Or	
3	✓	03	LCS #1408-121B	50ppbv	50ppbv	200mL				1225	Or	Italics
4	✓	04	LCS #1408-193A	100ppbv	50ppbv	100mL				1255	Or	2 ced ↓
5	F	05	~~Lab Blank~~ Cart Cert	22499	Humid	200mL				1514	Or	Cart Cert #7, leg 7
6	✓	06	LCSD #1408-121B	50ppbv	50ppbv	200mL				1602	KR	
7	✓	07	LCSD #1408-193A	100ppbv	50ppbv	100mL				1631	KR	2 ced
8	X	08	System Blank	22499	Humid	200mL		KR		1730	KR	Cart Cert 11, leg 3
9	✓	09	Lab Blank							1822	KR	Cart Cert 15, leg 4

Signature: [signature]   Date: 11-22-06

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MSD-8

Logbook #: 1478

0065

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	30.22
75	30.0 – 60.0% of mass 95	48.27
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.56
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	66.68
175	5.0 – 9.0% of mass 174	(7.89)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.36)[1]
177	5.0 – 9.0% of mass 176	(6.55)[2]

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

BFB Injection Date: 11/27/06
BFB Injection Time: 1028
BFB File ID: 8112701
Tekmar Purge Flow: 2
Vacuum: 2 [initials] 11/27/06

IS/S Std.#: 1408-200	Exp. Date: 2/14/07
BCM	515968
1,4-DFB	2185707
CB-d5	1689704

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

Verify 176/174 m/z Ratio: 1816125/1884768 · 100 = 96.36%

NOAH Cart #: 9/5 **File #:** 8112712/8112711

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(2010773)}{(2185707)} \times \frac{(25)}{(0.91795)} = 25.055$

Reported Result 25.055

File ID:	8112702
Compound:	Toluene-d8
Initials:	[initials]

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	8112701	BFB Tune Check	843-3737	50ng	2µL	1.00	[initials]	11/27/06	1028	[initials]	
2	✓	02	CCV #1408-220	200ppbv	50ppbv	50mL	↓	↓	↓	1111	[initials]	
3	✓	03	LCS # 1408-190A	100ppbv	50ppbv	100mL				1204	[initials]	
4	✓	04	LCSD #	↓	↓	↓				1233	[initials]	
5	✓	05	LCS # 1408-164A							1302	[initials]	2cpd
6	✓	06	LCSD #							1332	[initials]	
7	✓	07	ICAL # 1408-222	200ppbv	2ppbv	2 mL				1407	[initials]	sp236
8	✓	08	↓	200ppbv	50ppbv	50 mL				1435	[initials]	CCV50
9	✓	09		200ppbv	200ppbv	200 mL				1509	[initials]	

Signature [signature]

Date 11/27/06

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MSD-8

Logbook #: 1478

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.27
75	30.0 – 60.0% of mass 95	46.75
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.64
173	Less than 2.0% of mass 174	(0.00) [1]
174	Greater than 50.0% of mass 95	78.20
175	5.0 – 9.0% of mass 174	(7.96) [1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.90) [1]
177	5.0 – 9.0% of mass 176	(6.48) [2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 12/14/06

BFB Injection Time: 0923

BFB File ID: B1214

Tekmar Purge Flow: 12/14/06 MD

Vacuum:

IS/S Std.#:	1408-200	Exp. Date: 2/14/07
BCM	387545	
1,4-DFB	1499573	
CB-d5	1102570	

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

Verify 176/174 m/z Ratio: 14526626 / 15188089 X 100 = 95.90

NOAH Cart #: 5 **File #:** U121209

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF}$ = $\frac{(\ 1310126\ )}{(\ 1499573\ )} \times \frac{(\ 25\ )}{(\ 0.91795\ )}$ = 23.939

Reported Result 23.939

File ID:	B121407
Compound:	TDI-d8
Initials:	ED

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1		B121401	BFB TUNE CHECK	5413-2742	50ng	2.0uL	1.00	ED	12/14/06	0923	ED	
2		02	CCV - 1 (200ppbv)	1408-202	50ppbv	50mL				0945	ED	100% RF 31%
3		03	LCS - 1 (200ppbv)	1408-202		50mL				1027	EA	2nd
4		04	LCS 2nd cmpd (50ppbv)	1408-2208		200mL				1114	EA	
5		05	ICAL level 2 (200ppbv)	1413-[illegible]	2ppbv	2mL				1158	EA	
6		06	" 3 "		50ppbv	50mL				1226	EA	
7		07	" 4 "		200ppbv	200mL				1259	EA	
8		08	Lab Blank	13499	(humid)	200mL				1416	ED	
9		09	0611504-01A	12955	25"Hg/5psi	200mL	1.46	↓	↓	1603	EA	

Signature

12-15-06
Date

9900

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MSD-8

Logbook #: 1478

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	32.45
75	30.0 – 60.0% of mass 95	50.71
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.65
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	79.20
175	5.0 – 9.0% of mass 174	(7.97)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.38)[1]
177	5.0 – 9.0% of mass 176	(6.20)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: 1773982/1840543X100 = 96.38

BFB Injection Date: 12/15/06

BFB Injection Time: 0940

BFB File ID: F121501

Tekmar Purge Flow: 212/15/06 MA

Vacuum:

IS/S Std.#:	1408-210	Exp. Date: 2/14/07
BCM	409351	
1,4-DFB	1560867	
CB-d5	1107896	

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

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

7900

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1314009\ )}{(\ 1560867\ )} \times \frac{(\ 25\ )}{(\ 0.91795\ )} = 22.927$

Reported Result 22.927

File ID:	F121502
Compound:	T61-d8
Initials:	ED

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	/	F121501	BFB TUNE CHECK	SM13-2487	50 psig	2.0uL	1.00	ED	12/15/06	0940	ED	
2	/	02	CCV-1 (200ppbv)	1408-242	50ppbv	50ml		ED		1000	ED	ionMTBE 38%
3	/	03	LCS-1 (200ppbv)	1408-272		50ml		ED		1836	ED	
4	/	04	LCS2 comp (100ppbv	1408-243		100ml		ED		1118	ED	
5	/	05	ICAL Level 3 (100ppbv	1408-160	2ppbv	2ml		ED		1402	ED	
6	/	06	5		50ppbv	50ml		ED		1236	ED	
7	/	07	7		200ppbv	200ml		ED		1313	ED	
8	X	08	Lksp (200ppbv)	1413-406	50ppbv	50ml		ED		1342	ED	
9	/	09	Lksp (200 ppbv)	1408-276				ED		1432	ED	

Signature

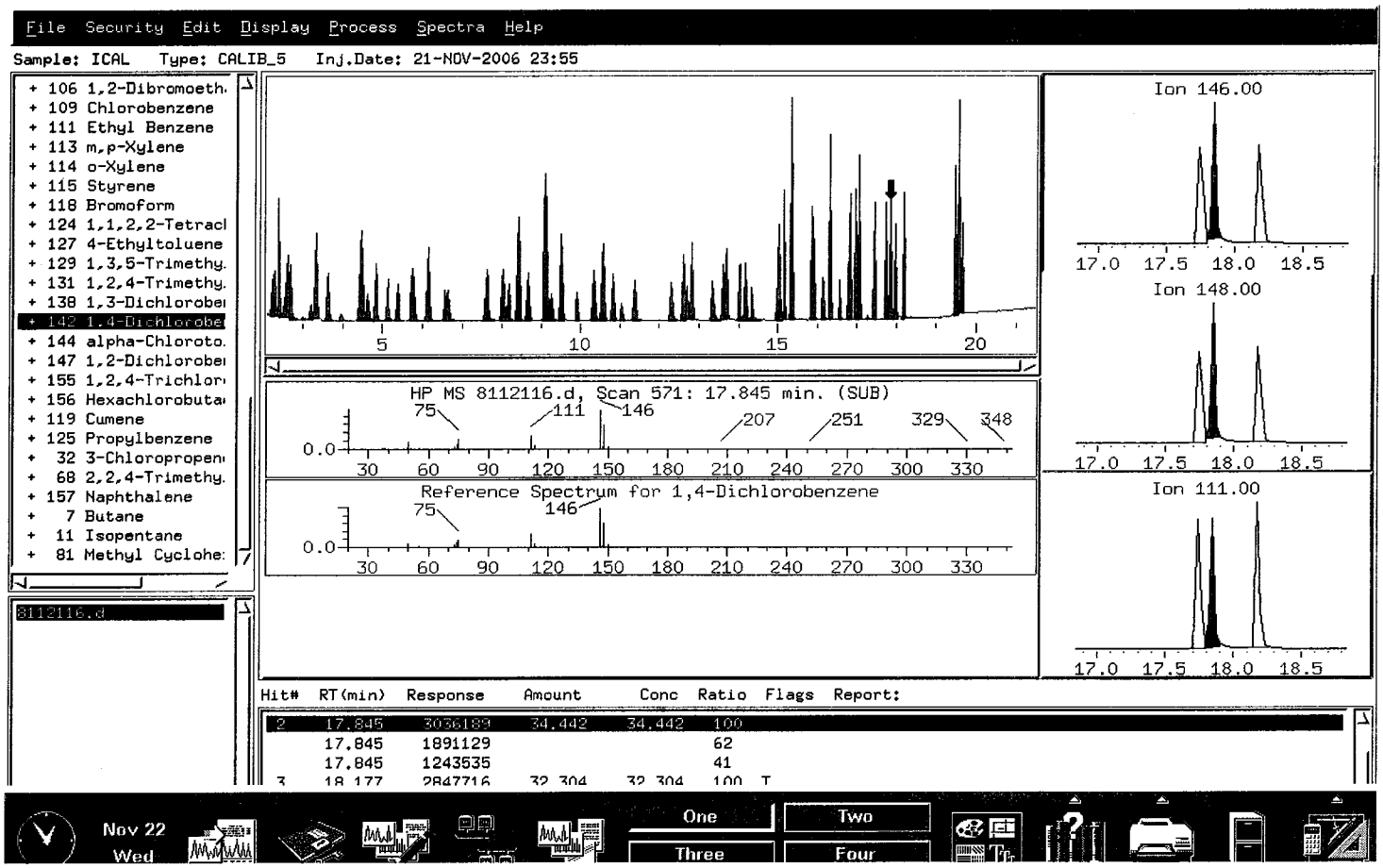
12/15/06 Date

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-8 on November 21, 2006. As noted on the accompanying analytical run log(s), the following point (Level 2) was re-analyzed due to:

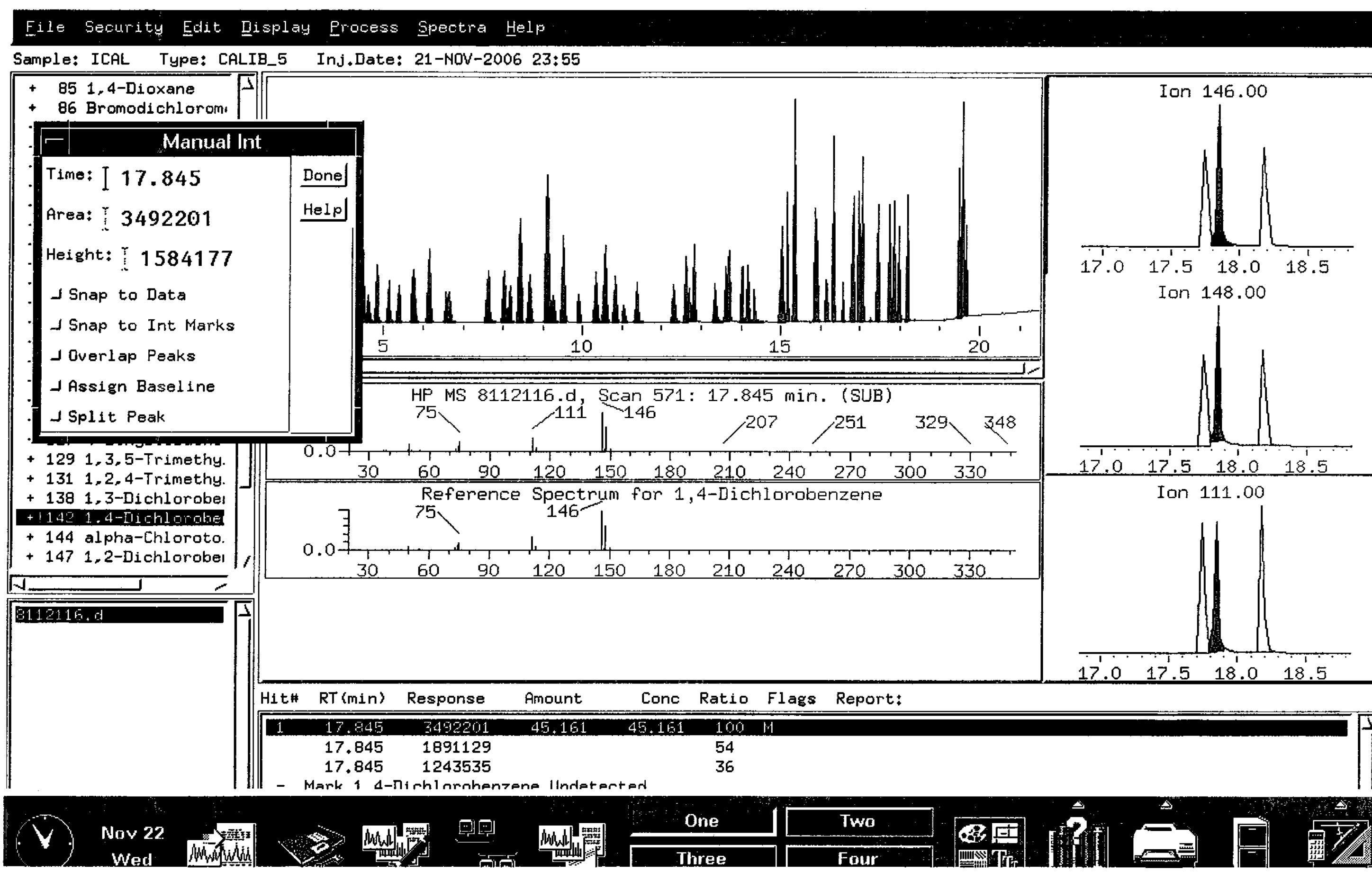
a. anomalous unacceptable linearity for many compounds

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


File Security Edit Display Process Spectra Help
Sample: ICAL Type: CALIB_5 Inj.Date: 21-NOV-2006 23:55
+ 106 1,2-Dibromoeth.
+ 109 Chlorobenzene
+ 111 Ethyl Benzene
+ 113 m,p-Xylene
+ 114 o-Xylene
+ 115 Styrene
+ 118 Bromoform
+ 124 1,1,2,2-Tetracl
+ 127 4-Ethyltoluene
+ 129 1,3,5-Trimethy.
+ 131 1,2,4-Trimethy.
+ 138 1,3-Dichlorobe
+ 142 1,4-Dichlorobe
+ 144 alpha-Chloroto.
+ 147 1,2-Dichlorobe
+ 155 1,2,4-Trichlor
+ 156 Hexachlorobuta
+ 119 Cumene
+ 125 Propylbenzene
+ 32 3-Chloropropen
+ 68 2,2,4-Trimethy.
+ 157 Naphthalene
+ 7 Butane
+ 11 Isopentane
+ 81 Methyl Cyclohe
5 10 15 20
HP MS 8112116.d, Scan 571: 17.845 min. (SUB)
75 111 146 207 251 329 348
0.0
30 60 90 120 150 180 210 240 270 300 330
Reference Spectrum for 1,4-Dichlorobenzene
75 146
0.0
30 60 90 120 150 180 210 240 270 300 330
Ion 146.00
17.0 17.5 18.0 18.5
Ion 148.00
17.0 17.5 18.0 18.5
Ion 111.00
17.0 17.5 18.0 18.5
8112116.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
2 17.845 3036189 34.442 34.442 100
17.845 1891129 62
17.845 1243535 41
3 18.177 2847716 32.304 32.304 100 T
Nov 22
Wed
One
Two
Three
Four

...ate / Initial	11/27/06 [illegible]
Poor Integration	✓
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	

baseline
NIC 11/27/06



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22nov.b/8112203.d
Lab Smp Id: LCS-1 Client Smp ID: LCS
Inj Date : 22-NOV-2006 12:25
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #1408-121B
Misc Info : 50ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-22nov.b/t14qn22a.m
Meth Date : 22-Nov-2006 14:11 jgray Quant Type: ISTD
Cal Date : 22-NOV-2006 09:52 Cal File: 8112121.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+Na+ENS.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	478055	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	368360			49.57- 109.57	77.05
8.029	8.029 (1.000)	49	1148195			199.05- 259.05	240.18
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	2060361	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	316628			0.00- 45.60	15.37
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1543052	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	907237			0.00- 30.00	58.79
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.108 (1.134)	65	732408	24.5019	24.502	80.00- 120.00	100.00
9.108	9.108 (1.134)	67	409311			0.00- 30.00	55.89
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1837739	24.2919	24.292	80.00- 120.00	100.00
12.702	12.702 (1.282)	70	202398			0.00- 30.00	11.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1268652			0.00- 30.00	69.03
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	860246	25.3548	25.355	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	1120822			93.42- 153.42	130.29
16.573	16.573 (1.105)	176	798448			64.43- 124.43	92.82
6 Propylene					CAS #: 115-07-1		
2.223	2.251 (0.277)	41	2057439	47.8066	47.806	80.00- 120.00	100.00
2.223	2.251 (0.277)	42	1369241			0.00- 30.00	66.55
2.223	2.251 (0.277)	39	1466764			0.00- 30.00	71.29
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.306 (0.284)	85	4354913	47.3968	47.397	80.00- 120.00	100.00
2.278	2.306 (0.284)	87	1413026			0.00- 30.00	32.45
4 Freon 114					CAS #: 76-14-2		
2.416	2.416 (0.301)	135	2953816	48.1383	48.138	80.00- 120.00	100.00
2.416	2.416 (0.301)	137	931382			1.45- 61.45	31.53
5 Chloromethane					CAS #: 74-87-3		
2.555	2.555 (0.318)	50	2218129	47.0759	47.076	80.00- 120.00	100.00
2.555	2.555 (0.318)	52	656224			0.00- 30.00	29.58
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.721 (0.335)	62	1817216	44.0845	44.084	80.00- 120.00	100.00
2.693	2.721 (0.335)	64	540483			0.00- 30.00	29.74
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	1468822	45.9431	45.943	80.00- 120.00	100.00
2.693	2.693 (0.335)	39	1799090			0.00- 30.00	122.49
10 Bromomethane					CAS #: 74-83-9		
3.163	3.191 (0.394)	94	1210196	44.9144	44.914	80.00- 120.00	100.00
3.163	3.191 (0.394)	96	1137213			62.87- 122.87	93.97
12 Chloroethane					CAS #: 75-00-3		
3.329	3.301 (0.415)	64	979861	45.2590	45.259	80.00- 120.00	100.00
3.329	3.301 (0.415)	49	326240			0.00- 30.00	33.29
3.329	3.301 (0.415)	66	286097			0.00- 30.00	29.20
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	3663782	45.5913	45.591	80.00- 120.00	100.00
3.633	3.633 (0.452)	103	2410195			34.57- 94.57	65.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.992	3.965 (0.497)	45	794818	48.4436	48.444	80.00- 120.00	100.00
3.992	3.965 (0.497)	43	170033			0.00- 30.00	21.39
3.992	3.965 (0.497)	46	342024			0.00- 30.00	43.03
24 Freon 113					CAS #: 76-13-1		
4.435	4.463 (0.552)	151	2203812	45.0774	45.077	80.00- 120.00	100.00
4.435	4.463 (0.552)	153	1380005			34.49- 94.49	62.62
4.435	4.463 (0.552)	101	2765567			98.61- 158.61	125.49
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	2722145	44.4224	44.422	80.00- 120.00	100.00
4.490	4.490 (0.559)	96	1253834			17.41- 77.41	46.06
4.490	4.490 (0.559)	98	825340			0.04- 60.04	30.32
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	879928	46.4297	46.430	80.00- 120.00	100.00
4.628	4.628 (0.576)	43	3273313			0.00- 30.00	372.00
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	3388063	47.6796	47.680	80.00- 120.00	100.00
4.822	4.822 (0.601)	43	672245			0.00- 30.00	19.84
4.822	4.822 (0.601)	59	114167			0.00- 30.00	3.37
29 Carbon Disulfide					CAS #: 75-15-0		
4.822	4.850 (0.601)	76	3400745	44.7741	44.774	80.00- 120.00	100.00
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	686263	48.1882	48.188	80.00- 120.00	100.00
5.126	5.126 (0.638)	41	3034826			0.00- 30.00	442.22
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	2397228	44.3696	44.370	80.00- 120.00	100.00
5.375	5.375 (0.669)	84	1103566			16.60- 76.60	46.04
5.375	5.375 (0.669)	51	701461			0.00- 30.00	29.26
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	1402859	28.5565	28.556	80.00- 120.00	100.00(R)
5.734	5.734 (0.714)	57	436002			2.18- 62.18	31.08
5.734	5.734 (0.714)	41	460069			0.00- 30.00	32.80
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.762	5.790 (0.718)	96	1257080	42.2356	42.236	80.00- 120.00	100.00
5.762	5.790 (0.718)	61	2301499			156.98- 216.98	183.08
5.762	5.790 (0.718)	98	818922			0.00- 30.00	65.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	3015376	44.9350	44.935	80.00- 120.00	100.00
6.121	6.149 (0.762)	43	2122473			0.00- 30.00	70.39
6.149	6.149 (0.766)	86	413640			0.00- 30.00	13.72
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	278020	41.8070	41.807	80.00- 120.00	100.00
6.619	6.647 (0.824)	43	4584747			0.00- 30.00	1649.07
6.619	6.647 (0.824)	42	391149			0.00- 30.00	140.69
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	2695608	43.9339	43.934	80.00- 120.00	100.00
6.564	6.564 (0.817)	65	806340			0.00- 59.93	29.91
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	621001	41.8406	41.841	80.00- 120.00	100.00
7.642	7.642 (0.952)	43	4109392			648.10- 708.10	661.74
7.642	7.642 (0.952)	57	279892			0.00- 30.00	45.07
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.587	7.615 (0.945)	61	2289180	44.3871	44.387	80.00- 120.00	100.00
7.587	7.615 (0.945)	96	1343874			29.77- 89.77	58.71
7.587	7.615 (0.945)	98	852241			8.90- 68.90	37.23
57 Tetrahydrofuran					CAS #: 109-99-9		
8.029	8.029 (1.000)	42	2412705	42.4593	42.459	80.00- 120.00	100.00
8.029	8.029 (1.000)	71	549460			0.00- 53.46	22.77
8.029	8.029 (1.000)	72	596865			0.00- 30.00	24.74
59 Chloroform					CAS #: 67-66-3		
8.168	8.168 (1.017)	83	2198556	44.5965	44.596	80.00- 120.00	100.00
8.168	8.168 (1.017)	85	1414056			35.88- 95.88	64.32
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	2478730	43.2660	43.266	80.00- 120.00	100.00
8.416	8.416 (1.048)	99	1590256			34.72- 94.72	64.16
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	1758389	42.1070	42.107	80.00- 120.00	100.00
8.389	8.416 (1.045)	56	3045738			137.53- 197.53	173.21
8.389	8.416 (1.045)	41	1769706			69.37- 129.37	100.64
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	2555244	44.7794	44.779	80.00- 120.00	100.00
8.665	8.665 (1.079)	117	2643898			73.59- 133.59	103.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.108	9.108 (1.134)	57	10344082	45.7372	45.737	80.00- 120.00	100.00
9.108	9.108 (1.134)	56	3463038			0.00- 30.00	33.48
9.108	9.108 (1.134)	41	2738571			0.00- 30.00	26.47
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	3575337	37.5676	37.568	80.00- 120.00	100.00
9.080	9.080 (0.916)	77	849606			0.00- 30.00	23.76
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	1893078	43.1199	43.120	80.00- 120.00	100.00
9.246	9.246 (0.933)	64	581396			0.00- 30.00	30.71
75 Heptane					CAS #: 142-82-5		
9.495	9.495 (0.958)	100	479603	40.8633	40.863	80.00- 120.00	100.00
9.495	9.495 (0.958)	43	3655191			0.00- 30.00	762.13
9.495	9.495 (0.958)	71	1290094			0.00- 30.00	268.99
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	1481606	43.9061	43.906	80.00- 120.00	100.00
10.324	10.324 (1.042)	130	1595263			76.58- 136.58	107.67
10.324	10.324 (1.042)	97	920225			34.29- 94.29	62.11
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	1487625	40.7614	40.761	80.00- 120.00	100.00
10.822	10.822 (1.092)	62	1086163			43.42- 103.42	73.01
10.822	10.822 (1.092)	41	1107745			44.24- 104.24	74.46
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	790143	39.4767	39.477	80.00- 120.00	100.00
11.043	11.043 (1.114)	58	795775			64.80- 124.80	100.71
11.043	11.043 (1.114)	57	240664			0.00- 30.00	30.46
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	2015146	42.2145	42.214	80.00- 120.00	100.00
11.375	11.375 (1.148)	85	1269721			34.47- 94.47	63.01
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	1211710	29.5252	29.525	80.00- 120.00	100.00(R)
12.287	12.287 (1.240)	77	370147			0.36- 60.36	30.55
12.287	12.287 (1.240)	39	976477			49.13- 109.13	80.59
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	1346595	43.1572	43.157	80.00- 120.00	100.00
12.591	12.591 (1.271)	43	4053728			0.00- 30.00	301.04
12.591	12.591 (1.271)	85	410410			0.00- 30.00	30.48

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.813	12.813 (1.293)	91	3887503	42.7960	42.796	80.00- 120.00	100.00
12.813	12.813 (1.293)	92	2336499			30.86- 90.86	60.10
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	314496	8.78776	8.788	80.00- 120.00	100.00
13.338	13.338 (0.889)	77	105620			1.91- 61.91	33.58
13.338	13.338 (0.889)	39	255038			47.15- 107.15	81.09
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	1240251	42.4703	42.470	80.00- 120.00	100.00
13.614	13.614 (0.908)	99	751820			27.66- 87.66	60.62
13.614	13.614 (0.908)	83	1051431			48.35- 108.35	84.78
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	1718086	43.0659	43.066	80.00- 120.00	100.00
13.670	13.697 (0.912)	129	1309748			45.71- 105.71	76.23
13.697	13.697 (0.913)	131	1263766			44.29- 104.29	73.56
103 2-Hexanone					CAS #: 591-78-6		
14.002	14.029 (0.934)	58	1659260	43.7828	43.783	80.00- 120.00	100.00
14.002	14.002 (0.934)	43	3573436			186.61- 246.61	215.36
14.029	14.029 (0.935)	100	270000			0.00- 30.00	16.27
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	1784883	42.4051	42.405	80.00- 120.00	100.00
14.167	14.167 (0.945)	127	1385102			0.00- 30.00	77.60
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	1915719	46.1320	46.132	80.00- 120.00	100.00
14.333	14.333 (0.956)	109	1768579			63.52- 123.52	92.32
109 Chlorobenzene					CAS #: 108-90-7		
15.025	15.025 (1.002)	112	3081141	43.1948	43.195	80.00- 120.00	100.00
15.025	15.025 (1.002)	114	960798			1.67- 61.67	31.18
15.025	15.025 (1.002)	77	1692332			25.46- 85.46	54.93
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	1766398	47.0297	47.030	80.00- 120.00	100.00
15.163	15.163 (1.011)	91	5550318			0.00- 30.00	314.22
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	3965237	81.4599	81.460	80.00- 120.00	100.00
15.329	15.329 (1.022)	91	7637959			0.00- 30.00	192.62
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	1751685	40.3663	40.366	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.854	15.854 (1.057)	91	3563669			181.18- 241.18	203.44
115 Styrene					CAS #: 100-42-5		
15.854	15.909 (1.057)	104	87674	1.47759	1.478	80.00- 120.00	100.00
15.854	15.909 (1.057)	78	241618			18.32- 78.32	275.58
118 Bromoform					CAS #: 75-25-2		
16.158	16.158 (1.077)	173	1292163	36.2846	36.285	80.00- 120.00	100.00
16.158	16.158 (1.077)	171	686301			22.66- 82.66	53.11
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	2508160	43.7984	43.798	80.00- 120.00	100.00
16.794	16.794 (1.120)	85	1596901			34.29- 94.29	63.67
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	6380182	49.6528	49.653	80.00- 120.00	100.00
16.960	16.960 (1.131)	120	1895882			0.43- 60.43	29.72
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	4177543	40.2083	40.208	80.00- 120.00	100.00
17.043	17.043 (1.136)	120	2017846			0.00- 30.00	48.30
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	3036140	30.3349	30.335	80.00- 120.00	100.00(R)
17.458	17.458 (1.164)	120	1451233			17.95- 77.95	47.80
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	2947533	46.9895	46.989	80.00- 120.00	100.00
17.734	17.734 (1.183)	148	1837916			0.00- 30.00	62.35
17.734	17.734 (1.183)	111	1255441			0.00- 30.00	42.59
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	3683167	48.1037	48.104	80.00- 120.00	100.00
17.845	17.845 (1.190)	148	2322628			0.00- 30.00	63.06
17.845	17.845 (1.190)	111	1352641			0.00- 30.00	36.72
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	4337279	53.5365	53.536	80.00- 120.00	100.00
17.983	17.983 (1.199)	126	991327			0.00- 30.00	22.86
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.177	18.177 (1.212)	146	2741922	44.2047	44.205	80.00- 120.00	100.00
18.177	18.177 (1.212)	148	1723812			32.73- 92.73	62.87
18.177	18.177 (1.212)	111	1271537			15.87- 75.87	46.37

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	2529901	47.0663	47.066	80.00- 120.00	100.00
19.476	19.476 (1.299)	182	2369645			66.05- 126.05	93.67
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	1655015	44.2503	44.250	80.00- 120.00	100.00
19.559	19.559 (1.304)	223	1061484			36.46- 96.46	64.14
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	7419175	47.7733	47.773	80.00- 120.00	100.00
16.849	16.849 (1.124)	120	1791190			0.00- 30.00	24.14
16.822	16.822 (1.122)	105	281582			0.00- 30.00	3.80
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	6810196	43.6068	43.607	80.00- 120.00	100.00
16.324	16.324 (1.088)	120	1845307			0.00- 30.00	27.10
16.324	16.324 (1.088)	51	1023282			0.00- 30.00	15.03
157 Naphthalene					CAS #: 91-20-3		
19.670	19.670 (1.312)	128	4161965	20.5191	20.519	80.00- 120.00	100.00
19.670	19.670 (1.312)	127	607577			0.00- 30.00	14.60
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	3073956	48.0915	48.092	70.00- 130.00	100.00
3.329	3.329 (0.415)	57	1893851			0.00- 30.00	61.61
3.329	3.329 (0.415)	72	174341			0.00- 30.00	5.67
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	469732	49.8435	49.843	70.00- 130.00	100.00
2.610	2.610 (0.325)	43	3562325			0.00- 30.00	758.37
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	2166911	42.0319	42.032	70.00- 130.00	100.00
10.573	10.573 (1.317)	98	1077103			0.00- 30.00	49.71
10.573	10.573 (1.317)	55	2568282			0.00- 30.00	118.52

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: 8112203.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd8.i/8-22nov.b/t14qn22a.m
Misc Info: 50ppbv-50ppbv

Calibration Date: 22-NOV-2006
Calibration Time: 11:24
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	571855	343113	800597	478055	-16.40
79 1,4-Difluorobenze	2376602	1425961	3327243	2060361	-13.31
108 Chlorobenzene-d5	1839535	1103721	2575349	1543052	-16.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 22-Nov-2006 14:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-22nov
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: AT04+NA+ENSR-2.spk Quant Type: ISTD
Sublist File: AT04+Na+ENS.sub
Method File: /chem/msd8.i/8-22nov.b/t14qn22a.m
Misc Info: 50ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Propylene	50.000	47.806	95.61	60-140
2 Dichlorodifluorome	50.000	47.397	94.79	70-130
4 Freon 114	50.000	48.138	96.28	70-130
5 Chloromethane	50.000	47.076	94.15	70-130
8 Vinyl Chloride	50.000	44.084	88.17	70-130
9 1,3-Butadiene	50.000	45.943	91.89	60-140
10 Bromomethane	50.000	44.914	89.83	70-130
12 Chloroethane	50.000	45.259	90.52	70-130
13 Trichlorofluoromet	50.000	45.591	91.18	70-130
17 Ethanol	50.000	48.444	96.89	60-140
24 Freon 113	50.000	45.077	90.15	70-130
25 1,1-Dichloroethene	50.000	44.422	88.84	70-130
26 Acetone	50.000	46.430	92.86	60-140
29 Carbon Disulfide	50.000	44.774	89.55	60-140
30 2-Propanol	50.000	47.680	95.36	60-140
33 Methylene Chloride	50.000	44.370	88.74	70-130
34 MTBE	50.000	28.556	57.11*	60-140
35 trans-1,2-Dichloro	50.000	42.236	84.47	60-140
40 Hexane	50.000	44.935	89.87	60-140
44 1,1-Dichloroethane	50.000	43.934	87.87	70-130
46 Vinyl Acetate	50.000	41.807	83.61	60-140
53 cis-1,2-Dichloroet	50.000	44.387	88.77	70-130
54 2-Butanone	50.000	41.841	83.68	60-140
57 Tetrahydrofuran	50.000	42.459	84.92	60-140
59 Chloroform	50.000	44.596	89.19	70-130
62 Cyclohexane	50.000	42.107	84.21	60-140
63 1,1,1-Trichloroeth	50.000	43.266	86.53	70-130
65 Carbon Tetrachlori	50.000	44.779	89.56	70-130
70 Benzene	50.000	37.568	75.14	70-130
72 1,2-Dichloroethane	50.000	43.120	86.24	70-130
75 Heptane	50.000	40.863	81.73	60-140
80 Trichloroethene	50.000	43.906	87.81	70-130
83 1,2-Dichloropropan	50.000	40.761	81.52	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
85	1,4-Dioxane	50.000	39.477	78.95	60-140
86	Bromodichlorometha	50.000	42.214	84.43	60-140
91	cis-1,3-Dichloropr	50.000	29.525	59.05*	70-130
92	4-Methyl-2-pentano	50.000	43.157	86.31	60-140
99	Toluene	50.000	42.796	85.59	70-130
101	1,1,2-Trichloroeth	50.000	42.470	84.94	70-130
102	Tetrachloroethene	50.000	43.066	86.13	70-130
103	2-Hexanone	50.000	43.783	87.57	60-140
105	Dibromochlorometha	50.000	42.405	84.81	60-140
106	1,2-Dibromoethane	50.000	46.132	92.26	70-130
109	Chlorobenzene	50.000	43.195	86.39	70-130
111	Ethyl Benzene	50.000	47.030	94.06	70-130
113	m,p-Xylene	100.00	81.460	81.46	70-130
114	o-Xylene	50.000	40.366	80.73	70-130
118	Bromoform	50.000	36.285	72.57	60-140
124	1,1,2,2-Tetrachlor	50.000	43.798	87.60	70-130
127	4-Ethyltoluene	50.000	49.653	99.31	60-140
129	1,3,5-Trimethylben	50.000	40.208	80.42	70-130
131	1,2,4-Trimethylben	50.000	30.335	60.67*	70-130
138	1,3-Dichlorobenzen	50.000	46.989	93.98	70-130
142	1,4-Dichlorobenzen	50.000	48.104	96.21	70-130
144	alpha-Chlorotoluen	50.000	53.536	107.07	70-130
147	1,2-Dichlorobenzen	50.000	44.205	88.41	70-130
155	1,2,4-Trichloroben	50.000	47.066	94.13	70-130
156	Hexachlorobutadien	50.000	44.250	88.50	70-130
119	Cumene	50.000	43.607	87.21	60-140
125	Propylbenzene	50.000	47.773	95.55	60-140
32	3-Chloropropene	50.000	48.188	96.38	60-140
68	2,2,4-Trimethylpen	50.000	45.737	91.47	60-140
157	Naphthalene	25.000	20.519	82.08	60-140
11	Isopentane	50.000	48.092	96.18	70-130
7	Butane	50.000	49.843	99.69	60-140
81	Methyl Cyclohexane	50.000	42.032	84.06	70-130

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71	1,2-Dichloroethane	25.000	24.502	98.01	70-130
$ 97	Toluene-d8	25.000	24.292	97.17	70-130
$ 123	Bromofluorobenzene	25.000	25.355	101.42	70-130

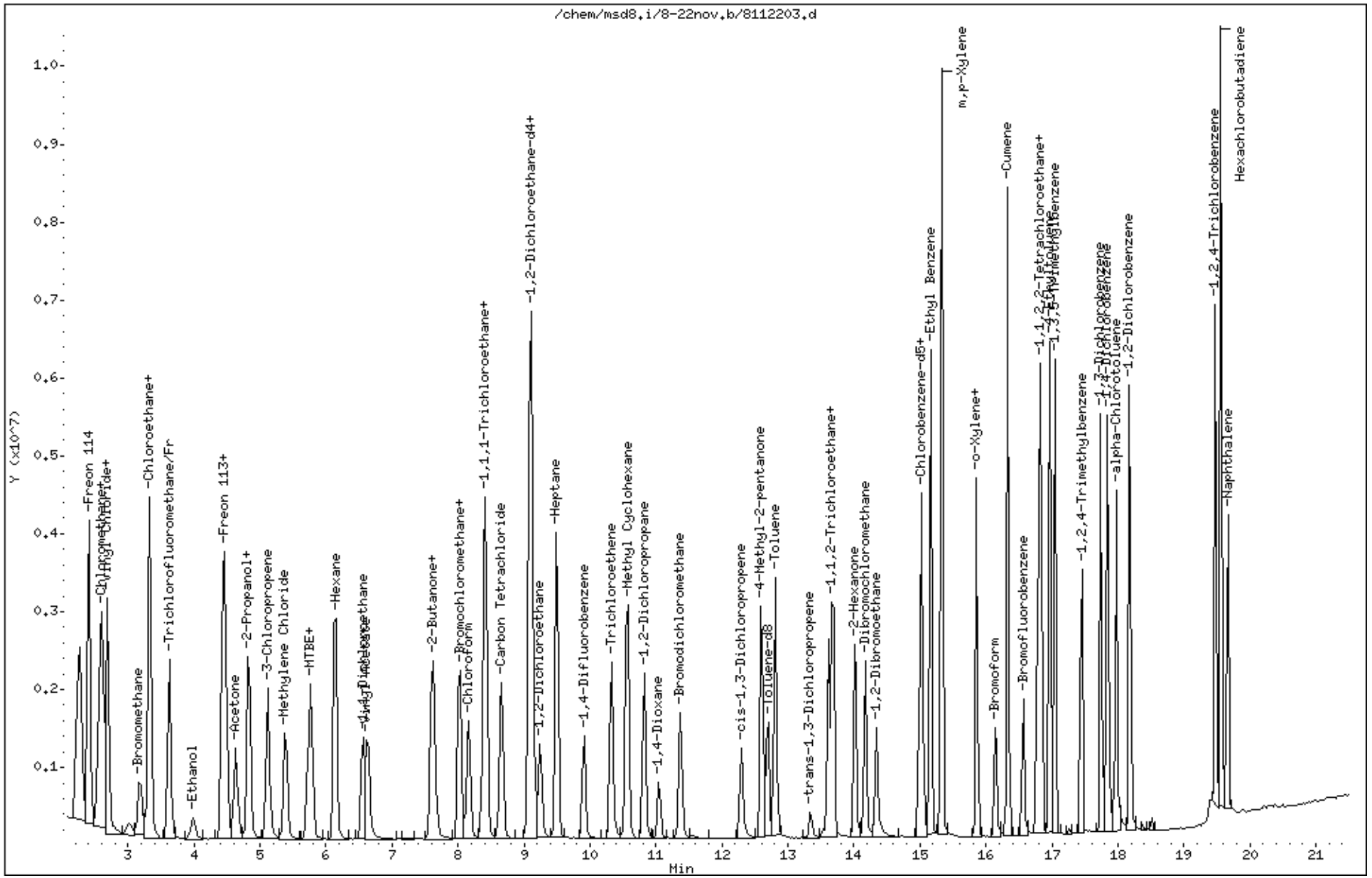
0082

Data File: /chem/msd8.i/8-22nov.b/8112203.d
Date : 22-NOV-2006 12:25
Client ID: LCS
Sample Info: 200mL #1408-121B

Instrument: msd8.i

Operator: JG
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22nov.b/8112204.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 22-NOV-2006 12:55
Operator : JG Inst ID: msd8.i
Smp Info : 100mL #1408-193A
Misc Info : 100ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-22nov.b/t14qn22a.m
Meth Date : 22-Nov-2006 14:11 jgray Quant Type: ISTD
Cal Date : 22-NOV-2006 09:52 Cal File: 8112121.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2cpmd.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	470341	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	338683			49.57- 109.57	72.01
8.029	8.029 (1.000)	49	1051744			199.05- 259.05	223.61
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1911325	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	277756			0.00- 45.60	14.53
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1476065	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	828685			0.00- 30.00	56.14
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.108 (1.134)	65	728506	24.7711	24.771	80.00- 120.00	100.00
9.108	9.108 (1.134)	67	344558			0.00- 30.00	47.30
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1690738	24.0914	24.091	80.00- 120.00	100.00
12.702	12.702 (1.282)	70	182058			0.00- 30.00	10.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1145224			0.00- 30.00	67.74
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	834049	25.6983	25.698	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	1068811			93.42- 153.42	128.15
16.573	16.573 (1.105)	176	788812			64.43- 124.43	94.58
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	2854482	50.2901	50.290	80.00- 120.00	100.00
15.909	15.909 (1.061)	78	1131985			18.32- 78.32	39.66
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.366	13.338 (0.891)	75	1821363	53.2027	53.203	80.00- 120.00	100.00
13.366	13.338 (0.891)	77	560592			1.91- 61.91	30.78
13.338	13.338 (0.889)	39	1453093			47.15- 107.15	79.78

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112204.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd8.i/8-22nov.b/t14qn22a.m
Misc Info: 100ppbv-50ppbv

Calibration Date: 22-NOV-2006
Calibration Time: 11:24
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	571855	343113	800597	470341	-17.75
79 1,4-Difluorobenze	2376602	1425961	3327243	1911325	-19.58
108 Chlorobenzene-d5	1839535	1103721	2575349	1476065	-19.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 22-Nov-2006 14:15

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-22nov
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: 2cmpd.spk Quant Type: ISTD
Sublist File: 2cpmd.sub
Method File: /chem/msd8.i/8-22nov.b/t14qn22a.m
Misc Info: 100ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
100 trans-1,3-Dichloro	50.000	53.203	106.41	70-130
115 Styrene	50.000	50.290	100.58	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	24.771	99.08	70-130
$ 97 Toluene-d8	25.000	24.091	96.37	70-130
$ 123 Bromofluorobenzene	25.000	25.698	102.79	70-130

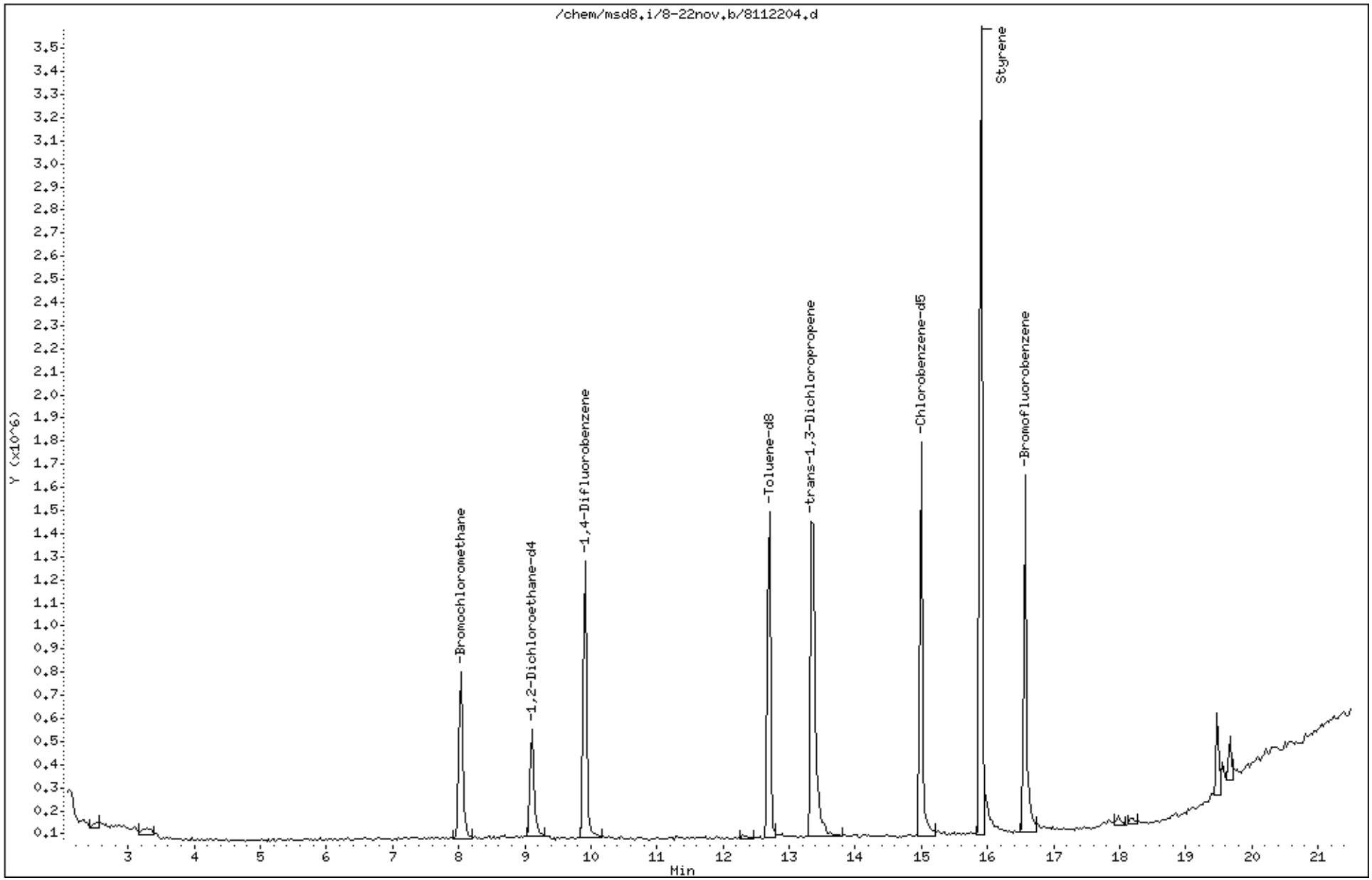
0087

Data File: /chem/msd8.i/8-22nov.b/8112204.d
Date : 22-NOV-2006 12:55
Client ID: LCS
Sample Info: 100mL #1408-193A

Column phase: RTx-624

Instrument: msd8.i

Operator: JG
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21nova.b/8112112.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 21-NOV-2006 22:00
Operator : kr Inst ID: msd8.i
Smp Info : 0.2mL #1408-220
Misc Info : 200ppbv-0.2ppbv
Comment :
Method : /chem/msd8.i/8-21nova.b/t14qn22a.m
Meth Date : 22-Nov-2006 13:00 jgray Quant Type: ISTD
Cal Date : 21-NOV-2006 22:00 Cal File: 8112112.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
==	====== ========	====	========	=======	=======	==========	=====
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	489768	25.0000		70.00- 130.00	100.00
8.029	8.029 (1.000)	128	366073			44.89- 104.89	74.74
8.029	8.029 (1.000)	49	1097484			193.81- 253.81	224.08
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1978518	25.0000		70.00- 130.00	100.00
9.909	9.909 (1.000)	88	322720			0.00- 45.62	16.31
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1484111	25.0000		70.00- 130.00	100.00
14.997	14.997 (1.000)	82	816607			0.00- 30.00	55.02
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.108 (1.134)	65	755725	25.0000	25.381	70.00- 130.00	100.00
9.108	9.108 (1.134)	67	349236			0.00- 30.00	46.21
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1768484	25.0000	24.374	70.00- 130.00	100.00
12.702	12.702 (1.282)	70	185151			0.00- 30.00	10.47

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1196591			0.00- 30.00	67.66
$ 123 Bromofluorobenzene						CAS #: 460-00-4	
16.573	16.573 (1.105)	174	799092	25.0000	24.798	70.00- 130.00	100.00
16.573	16.573 (1.105)	95	1020601			99.05- 159.05	127.72
16.573	16.573 (1.105)	176	754267			66.25- 126.25	94.39
59 Chloroform						CAS #: 67-66-3	
8.167	8.167 (1.017)	83	20133	0.20000	0.4404	70.00- 130.00	100.00(a)
8.167	8.167 (1.017)	85	11097			34.04- 94.04	55.12
70 Benzene						CAS #: 71-43-2	
9.080	9.080 (0.916)	78	27461	0.20000	0.2583	70.00- 130.00	100.00(a)
9.080	9.080 (0.916)	77	11909			0.00- 30.00	43.37
113 m,p-Xylene						CAS #: 108-38-3	
15.329	15.329 (1.022)	106	26394	0.40000	0.4943	70.00- 130.00	100.00(a)
15.329	15.329 (1.022)	91	51251			0.00- 30.00	194.18
115 Styrene						CAS #: 100-42-5	
15.909	15.909 (1.061)	104	15251	0.20000	0.2323	70.00- 130.00	100.00(a)
15.854	15.854 (1.057)	78	11385			17.14- 77.14	74.65
119 Cumene						CAS #: 98-82-8	
16.324	16.324 (1.088)	105	41900	0.20000	0.2425	70.00- 130.00	100.00(a)
16.324	16.324 (1.088)	120	13711			0.00- 30.00	32.72
16.324	16.324 (1.088)	51	6941			0.00- 30.00	16.57

QC Flag Legend

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

Report Date: 22-Nov-2006 13:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112112.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-21nova.b/t14qn22a.m
Misc Info: 200ppbv-0.2ppbv

Calibration Date: 21-NOV-2006
Calibration Time: 23:55
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	489478	293687	685269	489768	0.06
79 1,4-Difluorobenze	1959876	1175926	2743826	1978518	0.95
108 Chlorobenzene-d5	1558376	935026	2181726	1484111	-4.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

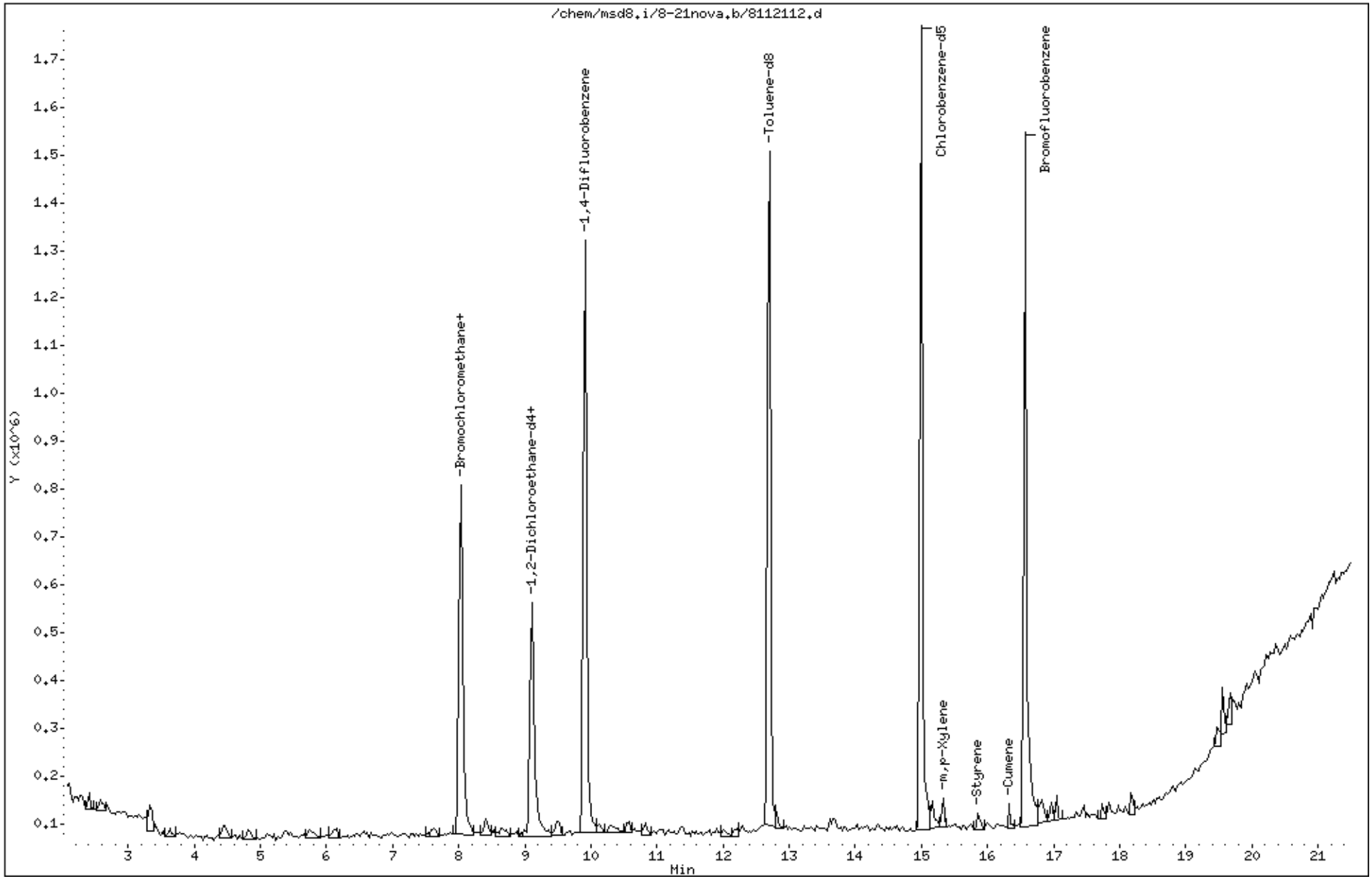
0091

Data File: /chem/msd8.i/8-21nova.b/8112112.d
Date : 21-NOV-2006 22:00
Client ID: Level 1
Sample Info: 0.2mL #1408-220

Column phase: RTx-624

Instrument: msd8.i

Operator: kr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21nova.b/8112121.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 22-NOV-2006 09:52
Operator : ej Inst ID: msd8.i
Smp Info : 0.5mL #1408-220
Misc Info : 200ppbv-0.5ppbv
Comment :
Method : /chem/msd8.i/8-21nova.b/t14qn22a.m
Meth Date : 22-Nov-2006 13:00 jgray Quant Type: ISTD
Cal Date : 22-NOV-2006 09:52 Cal File: 8112121.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALlevel2.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
* 58 Bromochloromethane						CAS #: 74-97-5		
8.029	8.029 (1.000)	130	475415	25.0000		70.00- 130.00		100.00
8.029	8.029 (1.000)	128	362172			44.89- 104.89		76.18
8.029	8.029 (1.000)	49	1056594			193.81- 253.81		222.25
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1946143	25.0000		70.00- 130.00		100.00
9.909	9.909 (1.000)	88	306503			0.00- 45.62		15.75
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1489207	25.0000		70.00- 130.00		100.00
14.997	14.997 (1.000)	82	822953			0.00- 30.00		55.26
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.107	9.107 (1.134)	65	705708	25.0000	23.740	70.00- 130.00		100.00
9.107	9.107 (1.134)	67	341775			0.00- 30.00		48.43
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1695453	25.0000	23.726	70.00- 130.00		100.00
12.702	12.702 (1.282)	70	180104			0.00- 30.00		10.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1146617			0.00- 30.00	67.63
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	804475	25.0000	24.568	70.00- 130.00	100.00
16.573	16.573 (1.105)	95	1019593			99.05- 159.05	126.74
16.573	16.573 (1.105)	176	767128			66.25- 126.25	95.36
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.278 (0.284)	85	58337	0.50000	0.6384	70.00- 130.00	100.00
2.278	2.278 (0.284)	87	18824			0.00- 30.00	32.27
4 Freon 114					CAS #: 76-14-2		
2.389	2.389 (0.297)	135	33738	0.50000	0.5529	70.00- 130.00	100.00
2.389	2.389 (0.297)	137	11430			1.70- 61.70	33.88
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.693 (0.335)	62	24317	0.50000	0.5932	70.00- 130.00	100.00
2.693	2.693 (0.335)	64	7785			0.00- 30.00	32.01
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	19611	0.50000	0.6168	70.00- 130.00	100.00
2.693	2.693 (0.335)	39	23421			0.00- 30.00	119.43
10 Bromomethane					CAS #: 74-83-9		
3.190	3.190 (0.397)	94	16616	0.50000	0.6201	70.00- 130.00	100.00
3.190	3.190 (0.397)	96	9561			64.11- 124.11	57.54
12 Chloroethane					CAS #: 75-00-3		
3.301	3.301 (0.411)	64	14937	0.50000	0.6938	70.00- 130.00	100.00
3.273	3.273 (0.408)	49	4923			0.00- 30.00	32.96
3.301	3.301 (0.411)	66	7279			0.00- 30.00	48.73
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	42181	0.50000	0.5278	70.00- 130.00	100.00
3.633	3.633 (0.452)	103	30739			33.56- 93.56	72.87
24 Freon 113					CAS #: 76-13-1		
4.435	4.435 (0.552)	151	25865	0.50000	0.5320	70.00- 130.00	100.00
4.435	4.435 (0.552)	153	16528			31.63- 91.63	63.90
4.435	4.435 (0.552)	101	34452			95.13- 155.13	133.20
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.462	4.462 (0.556)	61	35598	0.50000	0.5841	70.00- 130.00	100.00
4.462	4.462 (0.556)	96	12583			17.76- 77.76	35.35
4.490	4.490 (0.559)	98	14134			0.00- 59.91	39.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
29 Carbon Disulfide						CAS #: 75-15-0	
4.822	4.822 (0.601)	76	38707	0.50000	0.5124	70.00- 130.00	100.00
33 Methylene Chloride						CAS #: 75-09-2	
5.375	5.375 (0.669)	49	31627	0.50000	0.5886	70.00- 130.00	100.00
5.375	5.375 (0.669)	84	16437			17.49- 77.49	51.97
5.375	5.375 (0.669)	51	11503			0.00- 30.00	36.37
34 MTBE						CAS #: 1634-04-4	
5.734	5.734 (0.714)	73	42797	0.50000	0.8760	70.00- 130.00	100.00
5.734	5.734 (0.714)	57	15379			1.86- 61.86	35.93
5.734	5.734 (0.714)	41	16607			0.00- 30.00	38.80
35 trans-1,2-Dichloroethene						CAS #: 156-60-5	
5.762	5.762 (0.718)	96	17181	0.50000	0.5804	70.00- 130.00	100.00
5.762	5.762 (0.718)	61	32042			152.17- 212.17	186.50
5.762	5.762 (0.718)	98	13098			0.00- 30.00	76.24
40 Hexane						CAS #: 110-54-3	
6.149	6.149 (0.766)	57	34616	0.50000	0.5187	70.00- 130.00	100.00
6.149	6.149 (0.766)	43	23904			0.00- 30.00	69.05
6.149	6.149 (0.766)	86	8301			0.00- 30.00	23.98
44 1,1-Dichloroethane						CAS #: 75-34-3	
6.564	6.564 (0.817)	63	33933	0.50000	0.5561	70.00- 130.00	100.00
6.564	6.564 (0.817)	65	12870			0.00- 59.89	37.93
54 2-Butanone						CAS #: 78-93-3	
7.642	7.642 (0.952)	72	8613	0.50000	0.5835	70.00- 130.00	100.00
7.642	7.642 (0.952)	43	31319			604.25- 664.25	363.62
7.614	7.614 (0.948)	57	2767			0.00- 30.00	32.13
53 cis-1,2-Dichloroethene						CAS #: 156-59-2	
7.587	7.587 (0.945)	61	29191	0.50000	0.5692	70.00- 130.00	100.00
7.587	7.587 (0.945)	96	18000			28.92- 88.92	61.66
7.614	7.614 (0.948)	98	12122			7.81- 67.81	41.53
57 Tetrahydrofuran						CAS #: 109-99-9	
8.029	8.029 (1.000)	42	34520	0.50000	0.6109	70.00- 130.00	100.00
8.029	8.029 (1.000)	71	10760			0.00- 53.41	31.17
8.029	8.029 (1.000)	72	11403			0.00- 30.00	33.03
59 Chloroform						CAS #: 67-66-3	
8.167	8.167 (1.017)	83	27872	0.50000	0.5685	70.00- 130.00	100.00
8.167	8.167 (1.017)	85	21623			34.04- 94.04	77.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	33523	0.50000	0.5884	70.00- 130.00	100.00
8.416	8.416 (1.048)	99	21985			35.43- 95.43	65.58
62 Cyclohexane					CAS #: 110-82-7		
8.389	8.389 (1.045)	84	24737	0.50000	0.5956	70.00- 130.00	100.00
8.389	8.389 (1.045)	56	38606			138.19- 198.19	156.07
8.389	8.389 (1.045)	41	25480			65.76- 125.76	103.00
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	29336	0.50000	0.5170	70.00- 130.00	100.00
8.637	8.637 (1.076)	117	30233			73.47- 133.47	103.06
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	48579	0.50000	0.5404	70.00- 130.00	100.00
9.080	9.080 (0.916)	77	11278			0.00- 30.00	23.22
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	21178	0.50000	0.5107	70.00- 130.00	100.00
9.246	9.246 (0.933)	64	13582			0.00- 30.00	64.13
75 Heptane					CAS #: 142-82-5		
9.495	9.495 (0.958)	100	6234	0.50000	0.5623	70.00- 130.00	100.00
9.495	9.495 (0.958)	43	50708			0.00- 30.00	813.41
9.495	9.495 (0.958)	71	15174			0.00- 30.00	243.41
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	17328	0.50000	0.5436	70.00- 130.00	100.00
10.324	10.324 (1.042)	130	21651			77.61- 137.61	124.95
10.324	10.324 (1.042)	97	13814			34.18- 94.18	79.72
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	23033	0.50000	0.6682	70.00- 130.00	100.00
10.822	10.822 (1.092)	62	12973			45.46- 105.46	56.32
10.822	10.822 (1.092)	41	15227			47.35- 107.35	66.11
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	21623	0.50000	0.4796	70.00- 130.00	100.00(a)
11.375	11.375 (1.148)	85	13498			33.09- 93.09	62.42
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	22499	0.50000	0.5804	70.00- 130.00	100.00
12.315	12.315 (1.243)	77	8324			0.40- 60.40	37.00
12.287	12.287 (1.240)	39	22544			49.47- 109.47	100.20
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	13577	0.50000	0.4607	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 4-Methyl-2-pentanone (continued)							
12.591	12.591 (1.271)	43	39095			0.00- 30.00	287.95
12.619	12.619 (1.273)	85	4977			0.00- 30.00	36.66
99 Toluene					CAS #: 108-88-3		
12.812	12.812 (1.293)	91	42349	0.50000	0.4936	70.00- 130.00	100.00(a)
12.812	12.812 (1.293)	92	27791			30.22- 90.22	65.62
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	15422	0.50000	0.4465	70.00- 130.00	100.00(a)
13.365	13.365 (0.891)	77	8225			1.30- 61.30	53.33
13.365	13.365 (0.891)	39	19883			46.09- 106.09	128.93
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	16112	0.50000	0.5717	70.00- 130.00	100.00
13.614	13.614 (0.908)	99	11679			30.53- 90.53	72.49
13.614	13.614 (0.908)	83	11850			48.18- 108.18	73.55
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	21251	0.50000	0.5519	70.00- 130.00	100.00
13.697	13.697 (0.913)	129	16249			44.91- 104.91	76.46
13.670	13.670 (0.912)	131	13361			43.72- 103.72	62.87
103 2-Hexanone					CAS #: 591-78-6		
14.029	14.029 (0.935)	58	20714	0.50000	0.5663	70.00- 130.00	100.00
14.029	14.029 (0.935)	43	36177			186.04- 246.04	174.65
14.029	14.029 (0.935)	100	5285			0.00- 30.00	25.51
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	17013	0.50000	0.4188	70.00- 130.00	100.00(a)
14.167	14.167 (0.945)	127	15876			0.00- 30.00	93.32
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	18826	0.50000	0.4697	70.00- 130.00	100.00(a)
14.333	14.333 (0.956)	109	19911			65.83- 125.83	105.76
109 Chlorobenzene					CAS #: 108-90-7		
15.024	15.024 (1.002)	112	41962	0.50000	0.6095	70.00- 130.00	100.00
15.024	15.024 (1.002)	114	13653			0.94- 60.94	32.54
15.024	15.024 (1.002)	77	34714			24.15- 84.15	82.73
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	19919	0.50000	0.5495	70.00- 130.00	100.00
15.163	15.163 (1.011)	91	51917			0.00- 30.00	260.64
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	44698	1.00000	0.9514	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
113 m,p-Xylene (continued)							
15.329	15.329 (1.022)	91	78118			0.00- 30.00	174.77
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	21825	0.50000	0.5211	70.00- 130.00	100.00
15.854	15.854 (1.057)	91	43226			169.60- 229.60	198.06
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	21712	0.50000	0.3791	70.00- 130.00	100.00(a)
15.882	15.882 (1.059)	78	17764			17.14- 77.14	81.82
118 Bromoform					CAS #: 75-25-2		
16.158	16.158 (1.077)	173	14746	0.50000	0.4290	70.00- 130.00	100.00(a)
16.158	16.158 (1.077)	171	11213			21.36- 81.36	76.04
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	30047	0.50000	0.5437	70.00- 130.00	100.00
16.794	16.794 (1.120)	85	21384			34.48- 94.48	71.17
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	57807	0.50000	0.4661	70.00- 130.00	100.00(a)
16.988	16.988 (1.133)	120	17146			0.25- 60.25	29.66
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	45378	0.50000	0.4525	70.00- 130.00	100.00(a)
17.043	17.043 (1.136)	120	22174			0.00- 30.00	48.87
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	48580	0.50000	0.5029	70.00- 130.00	100.00
17.458	17.458 (1.164)	120	22555			17.91- 77.91	46.43
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	28742	0.50000	0.4748	70.00- 130.00	100.00(a)
17.734	17.734 (1.183)	148	15714			0.00- 30.00	54.67
17.734	17.734 (1.183)	111	12722			0.00- 30.00	44.26
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	38413	0.50000	0.5198	70.00- 130.00	100.00
17.845	17.845 (1.190)	148	29219			0.00- 30.00	76.07
17.845	17.845 (1.190)	111	15908			0.00- 30.00	41.41
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	29460	0.50000	0.3768	70.00- 130.00	100.00(a)
17.983	17.983 (1.199)	126	9929			0.00- 30.00	33.70
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.176	18.176 (1.212)	146	31937	0.50000	0.5335	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	147 1,2-Dichlorobenzene (continued)						
18.176	18.176 (1.212)	148	22260			33.77- 93.77	69.70
18.176	18.176 (1.212)	111	18481			15.48- 75.48	57.87
	119 Cumene				CAS #: 98-82-8		
16.324	16.324 (1.088)	105	73505	0.50000	0.4877	70.00- 130.00	100.00(a)
16.324	16.324 (1.088)	120	20203			0.00- 30.00	27.49
16.324	16.324 (1.088)	51	12218			0.00- 30.00	16.62
	125 Propylbenzene				CAS #: 103-65-1		
16.822	16.822 (1.122)	91	74306	0.50000	0.4958	70.00- 130.00	100.00(a)
16.849	16.849 (1.124)	120	19949			0.00- 30.00	26.85
16.822	16.822 (1.122)	105	3507			0.00- 30.00	4.72
	68 2,2,4-Trimethylpentane				CAS #: 540-84-1		
9.107	9.107 (1.134)	57	119522	0.50000	0.5314	70.00- 130.00	100.00
9.107	9.107 (1.134)	56	47393			0.00- 30.00	39.65
9.107	9.107 (1.134)	41	35102			0.00- 30.00	29.37
	81 Methyl Cyclohexane				CAS #: 108-87-2		
10.573	10.573 (1.317)	83	29237	0.50000	0.5703	70.00- 130.00	100.00
10.545	10.545 (1.313)	98	12868			0.00- 30.00	44.01
10.545	10.545 (1.313)	55	29472			0.00- 30.00	100.80

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112121.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ej
Method File: /chem/msd8.i/8-21nova.b/t14qn22a.m
Misc Info: 200ppbv-0.5ppbv

Calibration Date: 21-NOV-2006
Calibration Time: 23:55
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	489478	293687	685269	475415	-2.87
79 1,4-Difluorobenze	1959876	1175926	2743826	1946143	-0.70
108 Chlorobenzene-d5	1558376	935026	2181726	1489207	-4.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

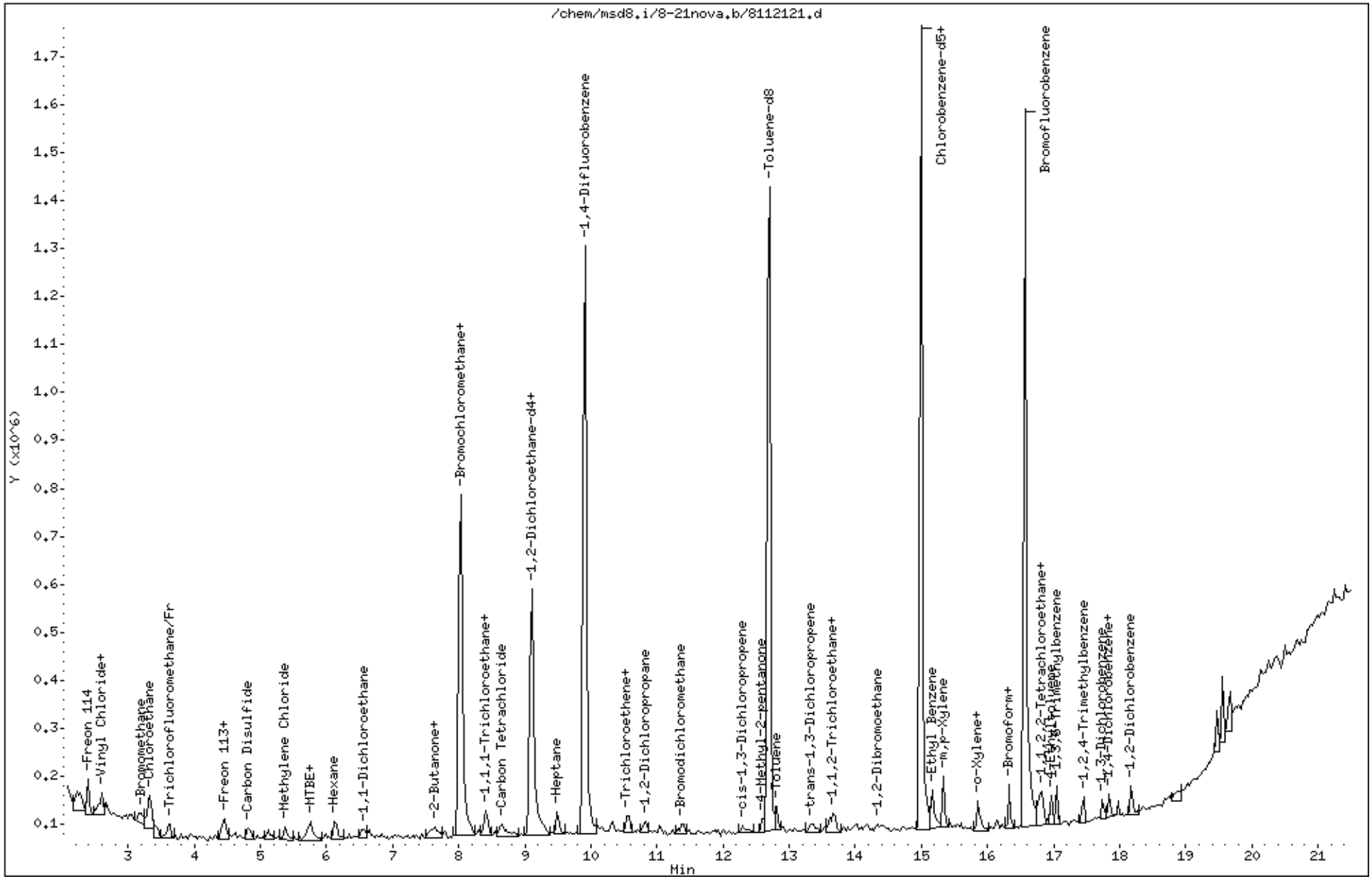
0100

Data File: /chem/msd8.i/8-21nova.b/8112121.d
Date : 22-NOV-2006 09:52
Client ID: Level 2
Sample Info: 0.5mL #1408-220

Instrument: msd8.i

Operator: ej
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-15dec.b/8121505.d
Lab Smp Id: ICAL Client Smp ID: ICAL Level 3
Inj Date : 15-DEC-2006 12:02
Operator : EA Inst ID: msd8.i
Smp Info : 2.0ml #1408-160
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd8.i/8-15dec.b/t14qn22d.m
Meth Date : 18-Dec-2006 10:50 ejakob Quant Type: ISTD
Cal Date : 15-DEC-2006 12:02 Cal File: 8121505.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4c.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
==	====== ========	====	========	=======	=======	==========		=====
* 58 Bromochloromethane					CAS #: 74-97-5			
8.029	8.029 (1.000)	130	349502	25.0000		70.00- 130.00		100.00
8.029	8.029 (1.000)	128	268045			50.25- 110.25		76.69
8.029	8.029 (1.000)	49	799242			215.94- 275.94		228.68
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.909	9.909 (1.000)	114	1305241	25.0000		70.00- 130.00		100.00
9.909	9.909 (1.000)	88	209971			0.00- 45.68		16.09
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.997	14.997 (1.000)	117	942192	25.0000		70.00- 130.00		100.00
14.997	14.997 (1.000)	82	540442			0.00- 30.00		57.36
52 tert-Butyl-Alcohol					CAS #: 75-65-0			
5.513	5.513 (0.687)	59	112902	2.00000	2.700	70.00- 130.00		100.00
5.513	5.513 (0.687)	41	39855			0.00- 30.00		35.30
5.513	5.513 (0.687)	57	11885			0.00- 30.00		10.53
61 Isopropyl ether					CAS #: 108-20-3			
6.564	6.564 (0.817)	45	247780	2.00000	2.179	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
61 Isopropyl ether (continued)							
6.591	6.591 (0.821)	87	33706			0.00- 30.00	13.60
6.564	6.564 (0.817)	59	24314			0.00- 30.00	9.81
67 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.200	7.200 (0.897)	59	101062	2.00000	1.784	70.00- 130.00	100.00(a)
7.227	7.227 (0.900)	87	33108			0.00- 30.00	32.76
7.200	7.200 (0.897)	41	30212			0.00- 30.00	29.89
73 Ethyl Acetate					CAS #: 141-78-6		
7.697	7.697 (0.959)	70	10118	2.00000	2.359	70.00- 130.00	100.00
7.697	7.697 (0.959)	43	137195			0.00- 30.00	1355.95
7.697	7.697 (0.959)	61	14496			0.00- 30.00	143.27
84 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.273	9.273 (1.155)	73	92668	2.00000	2.133	70.00- 130.00	100.00
9.273	9.273 (1.155)	87	21595			0.00- 30.00	23.30
9.273	9.273 (1.155)	55	37232			0.00- 30.00	40.18

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8121505.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msd8.i/8-15dec.b/t14qn22d.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 15-DEC-2006
Calibration Time: 12:30
Client Smp ID: ICAL Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	336295	201777	470813	349502	3.93
79 1,4-Difluorobenze	1279467	767680	1791254	1305241	2.01
108 Chlorobenzene-d5	894786	536872	1252700	942192	5.30

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

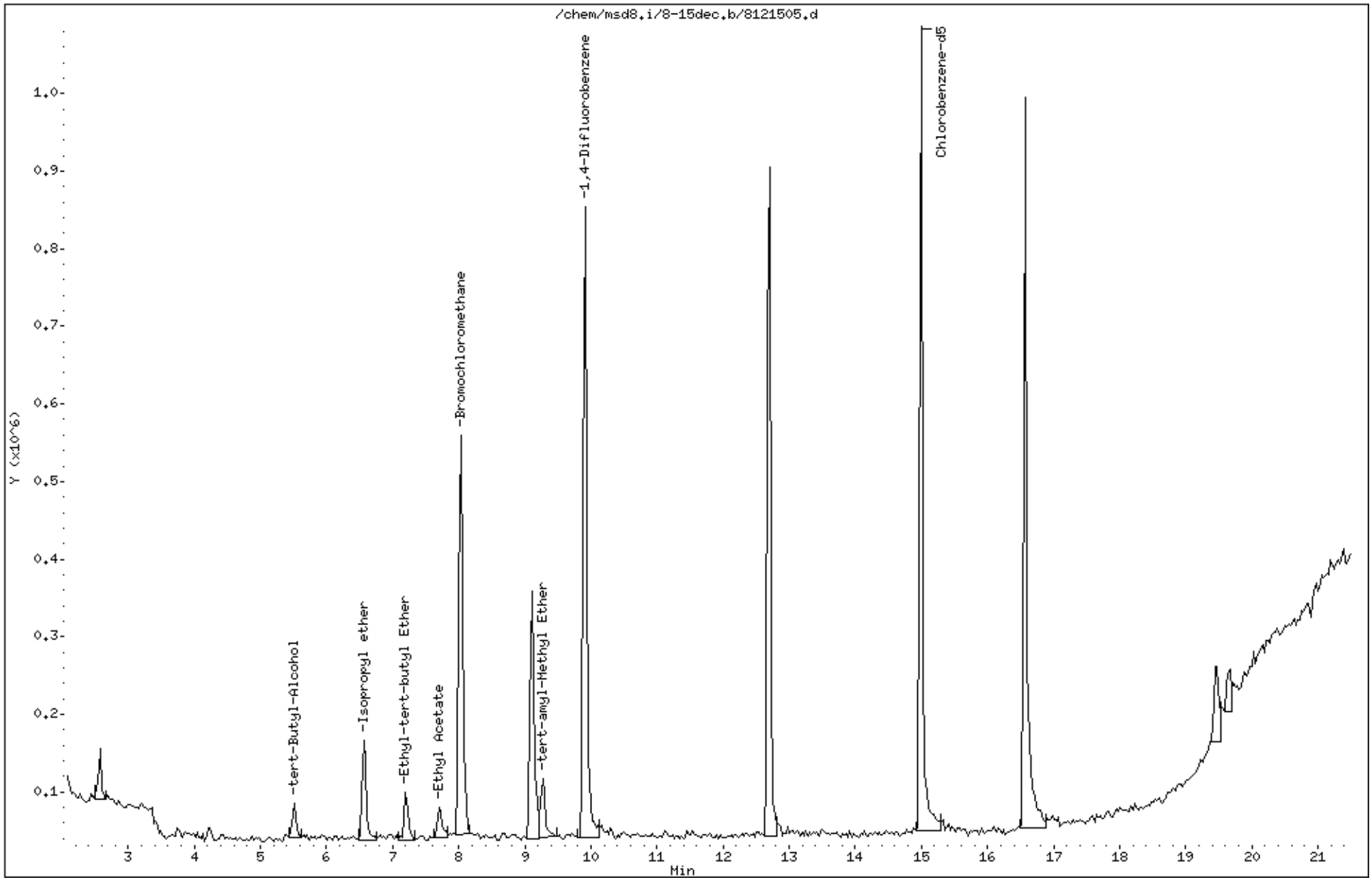
0104

Data File: /chem/msd8.i/8-15dec.b/8121505.d
Date : 15-DEC-2006 12:02
Client ID: ICAL Level 3
Sample Info: 2.0ml #1408-160

Column phase: RTx-624

Instrument: msd8.i

Operator: EA
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-14dec.b/8121405.d
Lab Smp Id: ICAL Client Smp ID: LEVEL 3
Inj Date : 14-DEC-2006 11:58
Operator : EA Inst ID: msd8.i
Smp Info : 2.0ml #1413-406
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-14dec.b/t14qn22c.m
Meth Date : 15-Dec-2006 13:25 ejakob Quant Type: ISTD
Cal Date : 14-DEC-2006 11:58 Cal File: 8121405.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp3c.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
==	====== ========	====	========	=======	=======		==========	=====
* 58 Bromochloromethane						CAS #: 74-97-5		
8.029	8.029 (1.000)	130	344222	25.0000			70.00- 130.00	100.00
8.029	8.029 (1.000)	128	272508				42.23- 102.23	79.17
8.029	8.029 (1.000)	49	845096				195.18- 255.18	245.51
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1384793	25.0000			70.00- 130.00	100.00
9.909	9.909 (1.000)	88	211773				0.00- 45.02	15.29
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	991524	25.0000			70.00- 130.00	100.00
14.997	14.997 (1.000)	82	550774				0.00- 30.00	55.55
37 Vinyl Bromide						CAS #: 593-60-2		
3.578	3.578 (0.446)	106	23050	2.00000	1.922		70.00- 130.00	100.00
3.578	3.578 (0.446)	108	19546				0.00- 30.00	84.80
51 Acetonitrile						CAS #: 75-05-8		
5.209	5.209 (0.649)	40	38362	2.00000	2.685		70.00- 130.00	100.00
5.237	5.237 (0.652)	41	58187				0.00- 30.00	151.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Acetonitrile (continued)							
5.237	5.237 (0.652)	38	6327			0.00- 30.00	16.49
55 Acrylonitrile					CAS #: 107-13-1		
5.900	5.900 (0.735)	53	26854	2.00000	1.526	70.00- 130.00	100.00(a)
5.900	5.900 (0.735)	52	16462			0.00- 30.00	61.30

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8121405.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msd8.i/8-14dec.b/t14qn22c.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 14-DEC-2006
Calibration Time: 12:26
Client Smp ID: LEVEL 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	373029	223817	522241	344222	-7.72
79 1,4-Difluorobenze	1432726	859636	2005816	1384793	-3.35
108 Chlorobenzene-d5	1007047	604228	1409866	991524	-1.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

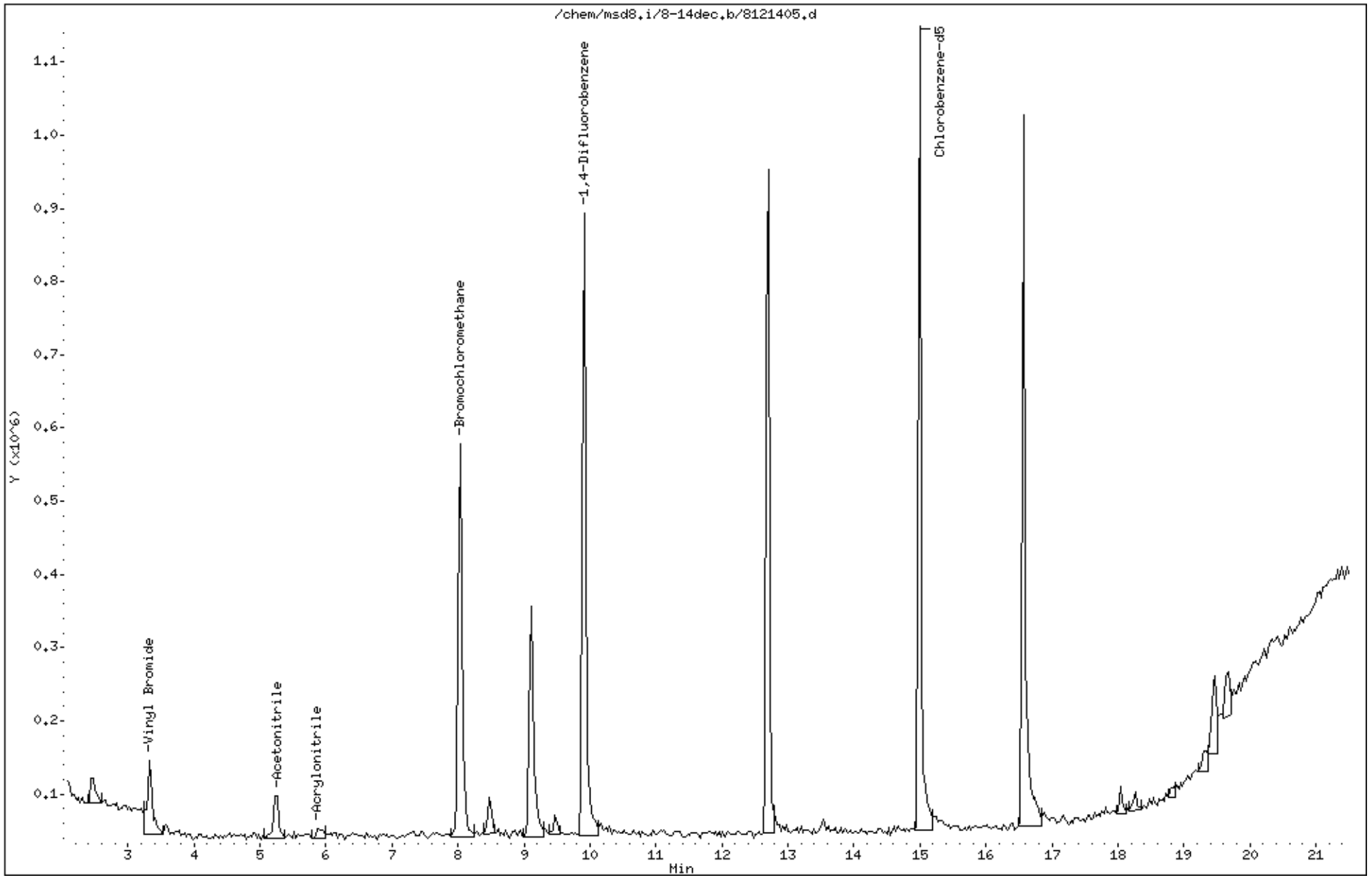
0108

Data File: /chem/msd8.i/8-14dec.b/8121405.d
Date : 14-DEC-2006 11:58
Client ID: LEVEL 3
Sample Info: 2.0ml #1413-406

Column phase: RTx-624

Instrument: msd8.i

Operator: EA
Column diameter: 0.53



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 3
Inj Date : 27-NOV-2006 14:07
Operator : JG Inst ID: msd8.i
Smp Info : 2mL #1408-222
Misc Info : 200ppbv-2ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn22b.m
Meth Date : 27-Nov-2006 16:57 jgray Quant Type: ISTD
Cal Date : 27-NOV-2006 14:07 Cal File: 8112707.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp23b.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
==	====== ========	====	========	=======	=======	==========		=====
* 58 Bromochloromethane					CAS #: 74-97-5			
8.029	8.029 (1.000)	130	421567	25.0000		70.00- 130.00		100.00
8.029	8.029 (1.000)	128	323045			49.51- 109.51		76.63
8.029	8.029 (1.000)	49	983991			207.63- 267.63		233.41
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.909	9.909 (1.000)	114	1791482	25.0000		70.00- 130.00		100.00
9.909	9.909 (1.000)	88	267867			0.00- 45.50		14.95
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.997	14.997 (1.000)	117	1297572	25.0000		70.00- 130.00		100.00
14.997	14.997 (1.000)	82	767338			0.00- 30.00		59.14
61 Isopropyl ether					CAS #: 108-20-3			
6.564	6.564 (0.817)	45	283022	2.00000	2.246	70.00- 130.00		100.00
6.564	6.564 (0.817)	87	51646			0.00- 30.00		18.25
6.564	6.564 (0.817)	59	27638			0.00- 30.00		9.77
74 2,2-Dichloropropane					CAS #: 594-20-7			
7.531	7.531 (0.938)	77	44071	2.00000	1.665	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
74 2,2-Dichloropropane (continued)							
7.559	7.559 (0.941)	79	17283			0.82- 60.82	39.22
7.559	7.559 (0.941)	97	16611			0.00- 30.00	37.69
98 Dibromomethane					CAS #: 74-95-3		
11.071	11.071 (1.117)	174	56753	2.00000	2.372	70.00- 130.00	100.00
11.071	11.071 (1.117)	93	55103			0.00- 30.00	97.09
11.071	11.071 (1.117)	95	44340			0.00- 30.00	78.13
110 1,3-Dichloropropane					CAS #: 142-28-9		
13.891	13.891 (1.402)	76	67318	2.00000	2.036	70.00- 130.00	100.00
13.891	13.891 (1.402)	41	64291			72.96- 132.96	95.50
13.891	13.891 (1.402)	78	24833			0.00- 30.00	36.89
116 Nonane					CAS #: 111-84-2		
15.329	15.329 (1.022)	43	193525	2.00000	2.177	70.00- 130.00	100.00
15.329	15.329 (1.022)	57	147100			0.00- 30.00	76.01
15.329	15.329 (1.022)	85	34935			0.00- 30.00	18.05
117 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.163	15.163 (1.011)	131	54572	2.00000	2.040	70.00- 130.00	100.00
15.163	15.163 (1.011)	117	109572			0.00- 30.00	200.78
15.163	15.163 (1.011)	95	25057			0.00- 30.00	45.92
130 Bromobenzene					CAS #: 108-86-1		
16.739	16.739 (1.116)	156	70562	2.00000	2.243	70.00- 130.00	100.00
16.711	16.711 (1.114)	77	104453			119.27- 179.27	148.03
16.739	16.739 (1.116)	158	55717			0.00- 30.00	78.96
133 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.849	16.849 (1.124)	110	37470	2.00000	2.318	70.00- 130.00	100.00
16.822	16.822 (1.122)	61	28612			0.00- 30.00	76.36
16.849	16.849 (1.124)	112	23952			0.00- 30.00	63.92
134 2-Chlorotoluene					CAS #: 95-49-8		
16.960	16.960 (1.131)	126	61187	2.00000	2.289	70.00- 130.00	100.00
16.960	16.960 (1.131)	91	173645			268.73- 328.73	283.79
16.932	16.932 (1.129)	65	15524			0.00- 30.00	25.37
137 4-Chlorotoluene					CAS #: 106-43-4		
17.098	17.098 (1.140)	126	53582	2.00000	2.209	70.00- 130.00	100.00
17.070	17.070 (1.138)	91	159586			275.02- 335.02	297.84
17.070	17.070 (1.138)	63	26999			0.00- 30.00	50.39
143 tert-Butylbenzene					CAS #: 98-06-6		
17.375	17.375 (1.159)	119	253006	2.00000	2.111	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 tert-Butylbenzene (continued)							
17.375	17.375 (1.159)	134	61947			0.00- 52.04	24.48
17.375	17.375 (1.159)	91	154909			0.00- 30.00	61.23
145 sec-Butylbenzene					CAS #: 135-98-8		
17.596	17.596 (1.173)	105	310826	2.00000	2.294	70.00- 130.00	100.00
17.623	17.623 (1.175)	134	70305			0.00- 49.98	22.62
17.596	17.596 (1.173)	91	42332			0.00- 30.00	13.62
148 p-Cymene					CAS #: 99-87-6		
17.762	17.762 (1.184)	134	72312	2.00000	2.190	70.00- 130.00	100.00
17.762	17.762 (1.184)	119	270873			342.17- 402.17	374.59
17.762	17.762 (1.184)	91	52653			0.00- 30.00	72.81
150 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.872	17.872 (1.192)	120	96378	2.00000	2.303	70.00- 130.00	100.00
17.872	17.872 (1.192)	105	203821			194.02- 254.02	211.48
17.872	17.872 (1.192)	77	24761			0.00- 30.00	25.69
151 Butylbenzene					CAS #: 104-51-8		
18.149	18.149 (1.210)	134	54086	2.00000	2.149	70.00- 130.00	100.00
18.149	18.149 (1.210)	91	211048			316.57- 376.57	390.21
18.149	18.149 (1.210)	92	102567			0.00- 30.00	189.64
154 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.868	18.868 (1.258)	157	56653	2.00000	1.831	70.00- 130.00	100.00(a)
18.868	18.868 (1.258)	75	55516			48.57- 108.57	97.99
18.868	18.868 (1.258)	155	48789			0.00- 30.00	86.12
188 1,1-Dichloropropene					CAS #: 563-58-6		
8.720	8.720 (1.086)	110	28788	2.00000	2.286	70.00- 130.00	100.00
8.720	8.720 (1.086)	75	84706			0.00- 30.00	294.24
122 Cyclohexanone					CAS #: 108-94-1		
16.490	16.490 (1.100)	55	61245	2.00000	1.951	70.00- 130.00	100.00(a)
16.490	16.490 (1.100)	98	17220			0.00- 30.00	28.12
16.490	16.490 (1.100)	42	44879			0.00- 30.00	73.28
1 Freon 152a					CAS #: 75-37-6		
2.250	2.250 (0.280)	65	43905	2.00000	2.289	70.00- 130.00	100.00
2.250	2.250 (0.280)	51	125266			0.00- 30.00	285.31
19 Freon123a					CAS #: 354-23-4		
4.158	4.158 (0.518)	67	29636	2.00000	2.488	70.00- 130.00	100.00
4.186	4.186 (0.521)	117	19620			0.00- 30.00	66.20

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
22 Freon123					CAS #: 306-83-2		
4.296	4.296 (0.535)	83	67459	2.00000	2.445	70.00- 130.00	100.00
4.296	4.296 (0.535)	133	15472			0.00- 30.00	22.94
4.296	4.296 (0.535)	85	43931			0.00- 30.00	65.12
191 Pentachloroethane					CAS #: 76-01-7		
17.430	17.430 (1.162)	167	56613	2.00000	2.070	70.00- 130.00	100.00
17.430	17.430 (1.162)	117	63567			0.00- 30.00	112.28

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112707.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd8.i/8-27nov.b/t14qn22b.m
Misc Info: 200ppbv-2ppbv

Calibration Date: 27-NOV-2006
Calibration Time: 14:35
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	418922	251353	586491	421567	0.63
79 1,4-Difluorobenze	1735257	1041154	2429360	1791482	3.24
108 Chlorobenzene-d5	1289485	773691	1805279	1297572	0.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

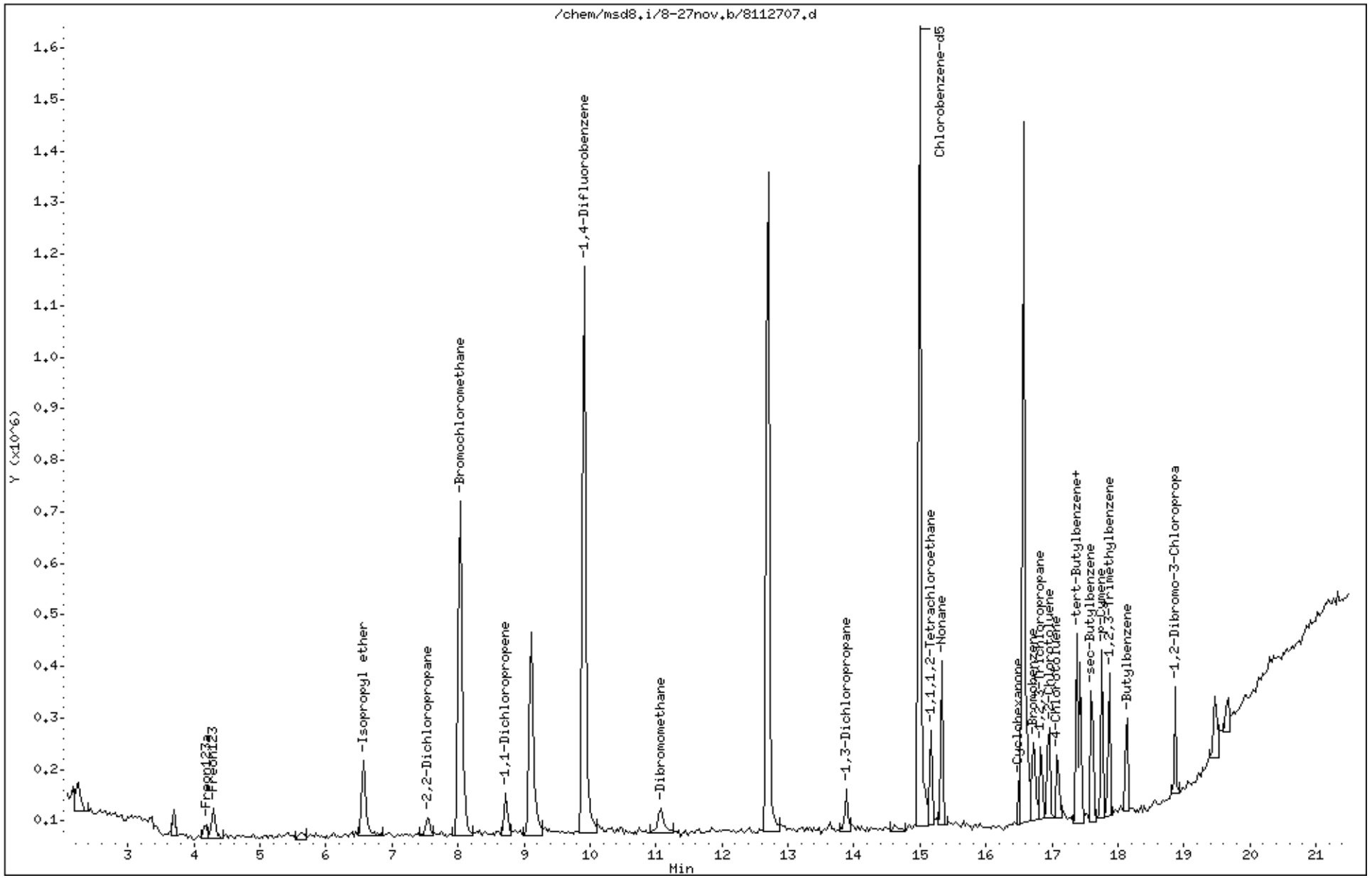
0114

Data File: /chem/msd8.i/8-27nov.b/8112707.d
Date : 27-NOV-2006 14:07
Client ID: Level 3
Sample Info: 2mL #1408-222

Column phase: RTx-624

Instrument: msd8.i

Operator: JG
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21nova.b/8112114.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 21-NOV-2006 22:58
Operator : kr Inst ID: msd8.i
Smp Info : 2.0mL #1408-220
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd8.i/8-21nova.b/t14qn22a.m
Meth Date : 22-Nov-2006 13:00 jgray Quant Type: ISTD
Cal Date : 21-NOV-2006 22:58 Cal File: 8112114.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+Na+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
==	====== ========	====	========	=======	=======	==========		=====
* 58 Bromochloromethane					CAS #: 74-97-5			
8.029	8.029 (1.000)	130	453482	25.0000		70.00- 130.00		100.00
8.029	8.029 (1.000)	128	362202			44.89- 104.89		79.87
8.029	8.029 (1.000)	49	1087814			193.81- 253.81		239.88
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.909	9.909 (1.000)	114	1982861	25.0000		70.00- 130.00		100.00
9.909	9.909 (1.000)	88	298506			0.00- 45.62		15.05
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.997	14.997 (1.000)	117	1452003	25.0000		70.00- 130.00		100.00
14.997	14.997 (1.000)	82	815314			0.00- 30.00		56.15
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.107	9.107 (1.134)	65	716243	25.0000	25.645	70.00- 130.00		100.00
9.107	9.107 (1.134)	67	363077			0.00- 30.00		50.69
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.702	12.702 (1.282)	98	1725527	25.0000	24.139	70.00- 130.00		100.00
12.702	12.702 (1.282)	70	172595			0.00- 30.00		10.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1123395			0.00- 30.00	65.10
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	770902	25.0000	24.632	70.00- 130.00	100.00
16.573	16.573 (1.105)	95	1020759			99.05- 159.05	132.41
16.573	16.573 (1.105)	176	792988			66.25- 126.25	102.86
6 Propylene					CAS #: 115-07-1		
2.223	2.223 (0.277)	41	115016	2.00000	2.474	70.00- 130.00	100.00
2.223	2.223 (0.277)	42	75509			0.00- 30.00	65.65
2.223	2.223 (0.277)	39	87213			0.00- 30.00	75.83
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.278 (0.284)	85	240631	2.00000	2.528	70.00- 130.00	100.00
2.278	2.278 (0.284)	87	68617			0.00- 30.00	28.52
4 Freon 114					CAS #: 76-14-2		
2.416	2.416 (0.301)	135	161967	2.00000	2.478	70.00- 130.00	100.00
2.416	2.416 (0.301)	137	50283			1.70- 61.70	31.05
5 Chloromethane					CAS #: 74-87-3		
2.555	2.555 (0.318)	50	133481	2.00000	2.529	70.00- 130.00	100.00
2.555	2.555 (0.318)	52	41506			0.00- 30.00	31.10
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.693 (0.335)	62	106600	2.00000	2.470	70.00- 130.00	100.00
2.693	2.693 (0.335)	64	27537			0.00- 30.00	25.83
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	79255	2.00000	2.446	70.00- 130.00	100.00
2.693	2.693 (0.335)	39	91773			0.00- 30.00	115.79
10 Bromomethane					CAS #: 74-83-9		
3.190	3.190 (0.397)	94	69815	2.00000	2.467	70.00- 130.00	100.00
3.190	3.190 (0.397)	96	56295			64.11- 124.11	80.63
12 Chloroethane					CAS #: 75-00-3		
3.329	3.329 (0.415)	64	44823	2.00000	2.239	70.00- 130.00	100.00
3.329	3.329 (0.415)	49	19016			0.00- 30.00	42.42
3.329	3.329 (0.415)	66	16092			0.00- 30.00	35.90
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	202130	2.00000	2.386	70.00- 130.00	100.00
3.633	3.633 (0.452)	103	140702			33.56- 93.56	69.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.965	3.965 (0.494)	45	39395	2.00000	2.318	70.00- 130.00	100.00
3.965	3.965 (0.494)	43	15276			0.00- 30.00	38.78
3.965	3.965 (0.494)	46	14696			0.00- 30.00	37.30
24 Freon 113					CAS #: 76-13-1		
4.435	4.435 (0.552)	151	127605	2.00000	2.419	70.00- 130.00	100.00
4.462	4.462 (0.556)	153	77082			31.63- 91.63	60.41
4.435	4.435 (0.552)	101	164114			95.13- 155.13	128.61
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	153903	2.00000	2.405	70.00- 130.00	100.00
4.490	4.490 (0.559)	96	83266			17.76- 77.76	54.10
4.490	4.490 (0.559)	98	48517			0.00- 59.91	31.52
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	51132	2.00000	2.488	70.00- 130.00	100.00
4.628	4.628 (0.576)	43	172072			0.00- 30.00	336.53
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	165600	2.00000	2.282	70.00- 130.00	100.00
4.822	4.822 (0.601)	43	36884			0.00- 30.00	22.27
4.822	4.822 (0.601)	59	4762			0.00- 30.00	2.88
29 Carbon Disulfide					CAS #: 75-15-0		
4.849	4.849 (0.604)	76	192132	2.00000	2.380	70.00- 130.00	100.00
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	134899	2.00000	2.406	70.00- 130.00	100.00
5.375	5.375 (0.669)	84	64486			17.49- 77.49	47.80
5.375	5.375 (0.669)	51	42160			0.00- 30.00	31.25
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	91477	2.00000	2.143	70.00- 130.00	100.00
5.734	5.734 (0.714)	57	33537			1.86- 61.86	36.66
5.734	5.734 (0.714)	41	35336			0.00- 30.00	38.63
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.790	5.790 (0.721)	96	74645	2.00000	2.420	70.00- 130.00	100.00
5.790	5.790 (0.721)	61	131932			152.17- 212.17	176.75
5.790	5.790 (0.721)	98	56775			0.00- 30.00	76.06
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	163751	2.00000	2.339	70.00- 130.00	100.00
6.149	6.149 (0.766)	43	125359			0.00- 30.00	76.55
6.149	6.149 (0.766)	86	22708			0.00- 30.00	13.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	15472	2.00000	2.269	70.00- 130.00	100.00
6.647	6.647 (0.828)	43	207486			0.00- 30.00	1341.04
6.647	6.647 (0.828)	42	18619			0.00- 30.00	120.34
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	155167	2.00000	2.409	70.00- 130.00	100.00
6.564	6.564 (0.817)	65	45045			0.00- 59.89	29.03
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	37453	2.00000	2.418	70.00- 130.00	100.00
7.642	7.642 (0.952)	43	204390			604.25- 664.25	545.72
7.670	7.670 (0.955)	57	16687			0.00- 30.00	44.55
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.614	7.614 (0.948)	61	132638	2.00000	2.433	70.00- 130.00	100.00
7.614	7.614 (0.948)	96	89262			28.92- 88.92	67.30
7.614	7.614 (0.948)	98	54080			7.81- 67.81	40.77
57 Tetrahydrofuran					CAS #: 109-99-9		
8.029	8.029 (1.000)	42	137809	2.00000	2.382	70.00- 130.00	100.00
8.029	8.029 (1.000)	71	28345			0.00- 53.41	20.57
8.029	8.029 (1.000)	72	44982			0.00- 30.00	32.64
59 Chloroform					CAS #: 67-66-3		
8.167	8.167 (1.017)	83	113588	2.00000	2.292	70.00- 130.00	100.00
8.167	8.167 (1.017)	85	81352			34.04- 94.04	71.62
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	137846	2.00000	2.362	70.00- 130.00	100.00
8.416	8.416 (1.048)	99	93481			35.43- 95.43	67.82
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	98222	2.00000	2.326	70.00- 130.00	100.00
8.416	8.416 (1.048)	56	170475			138.19- 198.19	173.56
8.389	8.389 (1.045)	41	102687			65.76- 125.76	104.55
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	144319	2.00000	2.379	70.00- 130.00	100.00
8.665	8.665 (1.079)	117	153951			73.47- 133.47	106.67
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	213677	2.00000	2.004	70.00- 130.00	100.00
9.080	9.080 (0.916)	77	47314			0.00- 30.00	22.14
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	104352	2.00000	2.278	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 1,2-Dichloroethane (continued)							
9.246	9.246 (0.933)	64	36269			0.00- 30.00	34.76
75 Heptane					CAS #: 142-82-5		
9.522	9.522 (0.961)	100	30066	2.00000	2.397	70.00- 130.00	100.00
9.495	9.495 (0.958)	43	209896			0.00- 30.00	698.12
9.495	9.495 (0.958)	71	77690			0.00- 30.00	258.40
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	78897	2.00000	2.260	70.00- 130.00	100.00
10.324	10.324 (1.042)	130	86440			77.61- 137.61	109.56
10.324	10.324 (1.042)	97	61472			34.18- 94.18	77.91
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	86657	2.00000	2.369	70.00- 130.00	100.00
10.822	10.822 (1.092)	62	57583			45.46- 105.46	66.45
10.822	10.822 (1.092)	41	69115			47.35- 107.35	79.76
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	51243	2.00000	2.350	70.00- 130.00	100.00
11.043	11.043 (1.114)	58	41971			64.35- 124.35	81.91
11.043	11.043 (1.114)	57	16878			0.00- 30.00	32.94
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	107488	2.00000	2.188	70.00- 130.00	100.00
11.375	11.375 (1.148)	85	70349			33.09- 93.09	65.45
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	86565	2.00000	2.163	70.00- 130.00	100.00
12.315	12.315 (1.243)	77	25671			0.40- 60.40	29.66
12.287	12.287 (1.240)	39	76687			49.47- 109.47	88.59
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	65178	2.00000	2.094	70.00- 130.00	100.00
12.591	12.591 (1.271)	43	198227			0.00- 30.00	304.13
12.619	12.619 (1.273)	85	22982			0.00- 30.00	35.26
99 Toluene					CAS #: 108-88-3		
12.812	12.812 (1.293)	91	225199	2.00000	2.318	70.00- 130.00	100.00
12.812	12.812 (1.293)	92	144507			30.22- 90.22	64.17
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.365	13.365 (0.891)	75	80984	2.00000	2.213	70.00- 130.00	100.00
13.338	13.338 (0.889)	77	29205			1.30- 61.30	36.06
13.338	13.338 (0.889)	39	65990			46.09- 106.09	81.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	71370	2.00000	2.376	70.00- 130.00	100.00
13.614	13.614 (0.908)	99	44769			30.53- 90.53	62.73
13.614	13.614 (0.908)	83	55143			48.18- 108.18	77.26
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	98785	2.00000	2.383	70.00- 130.00	100.00
13.697	13.697 (0.913)	129	70230			44.91- 104.91	71.09
13.697	13.697 (0.913)	131	74415			43.72- 103.72	75.33
103 2-Hexanone					CAS #: 591-78-6		
14.029	14.029 (0.935)	58	77153	2.00000	2.126	70.00- 130.00	100.00
14.029	14.029 (0.935)	43	172316			186.04- 246.04	223.34
14.029	14.029 (0.935)	100	16208			0.00- 30.00	21.01
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	96223	2.00000	2.211	70.00- 130.00	100.00
14.167	14.167 (0.945)	127	79554			0.00- 30.00	82.68
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	99338	2.00000	2.310	70.00- 130.00	100.00
14.333	14.333 (0.956)	109	94115			65.83- 125.83	94.74
109 Chlorobenzene					CAS #: 108-90-7		
15.024	15.024 (1.002)	112	166417	2.00000	2.330	70.00- 130.00	100.00
15.024	15.024 (1.002)	114	51470			0.94- 60.94	30.93
15.024	15.024 (1.002)	77	109240			24.15- 84.15	65.64
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	86574	2.00000	2.286	70.00- 130.00	100.00
15.163	15.163 (1.011)	91	288590			0.00- 30.00	333.34
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	218236	4.00000	4.116	70.00- 130.00	100.00
15.329	15.329 (1.022)	91	425067			0.00- 30.00	194.77
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	99737	2.00000	2.264	70.00- 130.00	100.00
15.854	15.854 (1.057)	91	212179			169.60- 229.60	212.74
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	108546	2.00000	1.782	70.00- 130.00	100.00
15.909	15.909 (1.061)	78	64978			17.14- 77.14	59.86
118 Bromoform					CAS #: 75-25-2		
16.158	16.158 (1.077)	173	72423	2.00000	2.077	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
118 Bromoform (continued)							
16.158	16.158 (1.077)	171	39288			21.36- 81.36	54.25
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	144115	2.00000	2.408	70.00- 130.00	100.00
16.794	16.794 (1.120)	85	91075			34.48- 94.48	63.20
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	313417	2.00000	2.312	70.00- 130.00	100.00
16.988	16.988 (1.133)	120	84967			0.25- 60.25	27.11
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	260679	2.00000	2.315	70.00- 130.00	100.00
17.043	17.043 (1.136)	120	131868			0.00- 30.00	50.59
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	252810	2.00000	2.371	70.00- 130.00	100.00
17.458	17.458 (1.164)	120	121256			17.91- 77.91	47.96
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	147871	2.00000	2.282	70.00- 130.00	100.00
17.734	17.734 (1.183)	148	91407			0.00- 30.00	61.82
17.734	17.734 (1.183)	111	63430			0.00- 30.00	42.90
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	201450	2.00000	2.430	70.00- 130.00	100.00
17.845	17.845 (1.190)	148	126502			0.00- 30.00	62.80
17.845	17.845 (1.190)	111	75388			0.00- 30.00	37.42
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	171553	2.00000	2.108	70.00- 130.00	100.00
17.983	17.983 (1.199)	126	38151			0.00- 30.00	22.24
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.176	18.176 (1.212)	146	146109	2.00000	2.317	70.00- 130.00	100.00
18.176	18.176 (1.212)	148	102264			33.77- 93.77	69.99
18.176	18.176 (1.212)	111	69796			15.48- 75.48	47.77
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	131990	2.00000	2.390	70.00- 130.00	100.00
19.476	19.476 (1.299)	182	124331			66.86- 126.86	94.20
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	110019	2.00000	2.584	70.00- 130.00	100.00
19.559	19.559 (1.304)	223	71942			35.20- 95.20	65.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	374066	2.00000	2.137	70.00- 130.00	100.00
16.324	16.324 (1.088)	120	104457			0.00- 30.00	27.92
16.324	16.324 (1.088)	51	50305			0.00- 30.00	13.45
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	384400	2.00000	2.323	70.00- 130.00	100.00
16.849	16.849 (1.124)	120	87654			0.00- 30.00	22.80
16.822	16.822 (1.122)	105	19116			0.00- 30.00	4.97
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	36214	2.00000	2.377	70.00- 130.00	100.00
5.126	5.126 (0.638)	41	146089			0.00- 30.00	403.40
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.107	9.107 (1.134)	57	573675	2.00000	2.399	70.00- 130.00	100.00
9.107	9.107 (1.134)	56	182613			0.00- 30.00	31.83
9.107	9.107 (1.134)	41	164412			0.00- 30.00	28.66
157 Naphthalene					CAS #: 91-20-3		
19.670	19.670 (1.312)	128	283521	1.00000	1.246	70.00- 130.00	100.00(a)
19.670	19.670 (1.312)	127	45331			0.00- 30.00	15.99
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	25955	2.00000	2.489	70.00- 130.00	100.00
2.610	2.610 (0.325)	43	192661			0.00- 30.00	742.29
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	175757	2.00000	2.494	70.00- 130.00	100.00
3.329	3.329 (0.415)	57	103975			0.00- 30.00	59.16
3.329	3.329 (0.415)	72	12459			0.00- 30.00	7.09
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	118253	2.00000	2.281	70.00- 130.00	100.00
10.573	10.573 (1.317)	98	63720			0.00- 30.00	53.88
10.573	10.573 (1.317)	55	164178			0.00- 30.00	138.84

QC Flag Legend

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

Report Date: 22-Nov-2006 13:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112114.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-21nova.b/t14qn22a.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 21-NOV-2006
Calibration Time: 23:55
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	489478	293687	685269	453482	-7.35
79 1,4-Difluorobenze	1959876	1175926	2743826	1982861	1.17
108 Chlorobenzene-d5	1558376	935026	2181726	1452003	-6.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

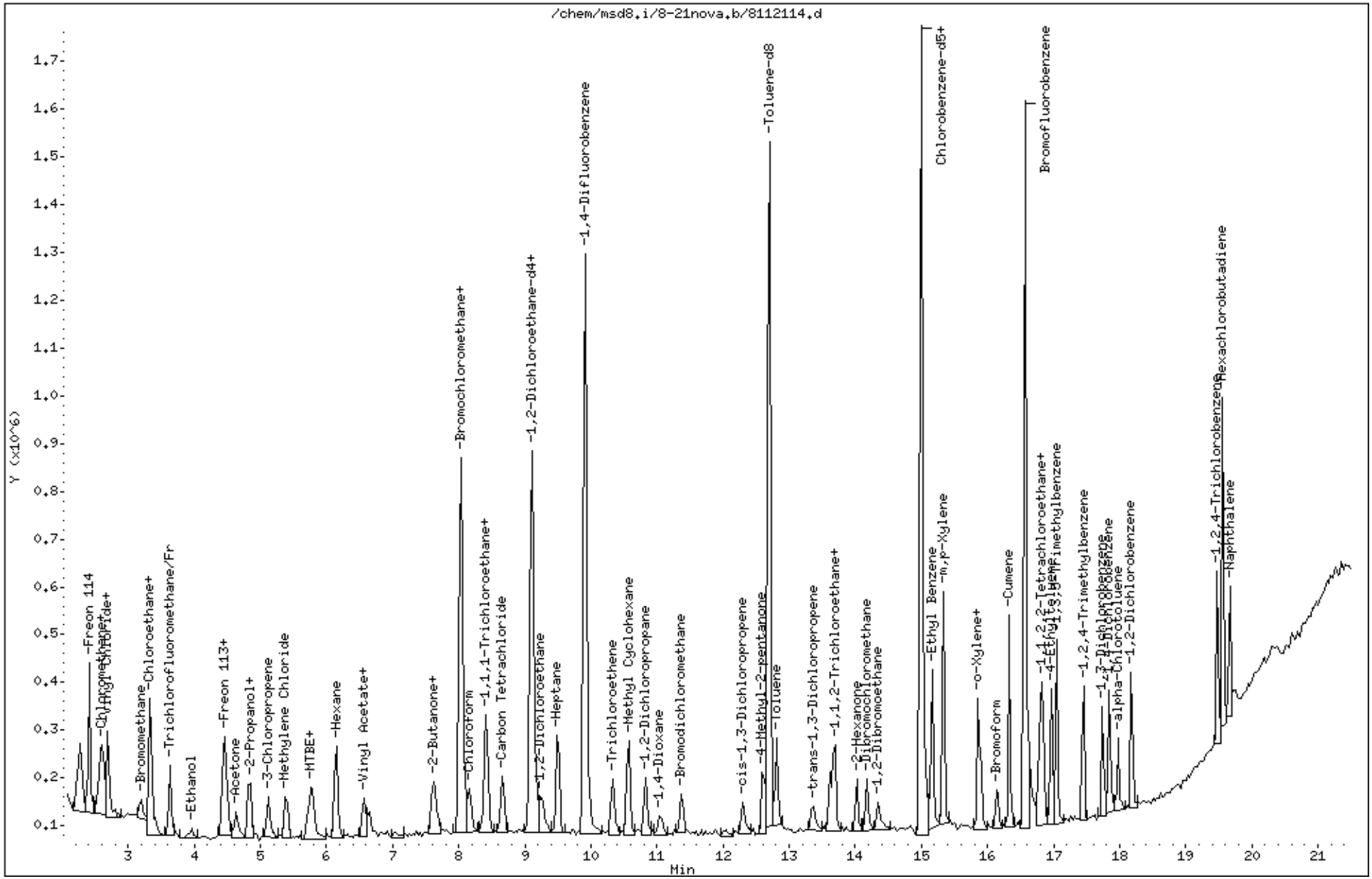
0124

Data File: /chem/msd8.i/8-21nova.b/8112114.d
Date : 21-NOV-2006 22:58
Client ID: Level 3
Sample Info: 2.0mL #1408-220

Instrument: msd8.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21nova.b/8112115.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 21-NOV-2006 23:26
Operator : kr Inst ID: msd8.i
Smp Info : 25mL #1408-220
Misc Info : 200ppbv-25ppbv
Comment :
Method : /chem/msd8.i/8-21nova.b/t14qn22a.m
Meth Date : 22-Nov-2006 13:00 jgray Quant Type: ISTD
Cal Date : 21-NOV-2006 23:26 Cal File: 8112115.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+Na+ENSR.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	485021	25.0000		70.00- 130.00	100.00
8.029	8.029 (1.000)	128	377880			44.89- 104.89	77.91
8.029	8.029 (1.000)	49	1063546			193.81- 253.81	219.28
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1930871	25.0000		70.00- 130.00	100.00
9.909	9.909 (1.000)	88	305564			0.00- 45.62	15.83
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1529493	25.0000		70.00- 130.00	100.00
14.997	14.997 (1.000)	82	851396			0.00- 30.00	55.67
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.108 (1.134)	65	745917	25.0000	24.978	70.00- 130.00	100.00
9.108	9.108 (1.134)	67	367030			0.00- 30.00	49.21
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1805411	25.0000	25.696	70.00- 130.00	100.00
12.702	12.702 (1.282)	70	194547			0.00- 30.00	10.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1238768			0.00- 30.00	68.61
$ 123 Bromofluorobenzene						CAS #: 460-00-4	
16.573	16.573 (1.105)	174	797871	25.0000	24.397	70.00- 130.00	100.00
16.573	16.573 (1.105)	95	1037123			99.05- 159.05	129.99
16.573	16.573 (1.105)	176	820154			66.25- 126.25	102.79
6 Propylene						CAS #: 115-07-1	
2.223	2.223 (0.277)	41	1027317	25.0000	21.928	70.00- 130.00	100.00
2.223	2.223 (0.277)	42	662033			0.00- 30.00	64.44
2.223	2.223 (0.277)	39	761849			0.00- 30.00	74.16
2 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.278	2.278 (0.284)	85	1966384	25.0000	20.898	70.00- 130.00	100.00
2.278	2.278 (0.284)	87	647801			0.00- 30.00	32.94
4 Freon 114						CAS #: 76-14-2	
2.389	2.389 (0.298)	135	1483643	25.0000	22.346	70.00- 130.00	100.00
2.389	2.389 (0.298)	137	486853			1.70- 61.70	32.81
5 Chloromethane						CAS #: 74-87-3	
2.527	2.527 (0.315)	50	1100753	25.0000	21.043	70.00- 130.00	100.00
2.527	2.527 (0.315)	52	339670			0.00- 30.00	30.86
8 Vinyl Chloride						CAS #: 75-01-4	
2.693	2.693 (0.335)	62	939748	25.0000	21.702	70.00- 130.00	100.00
2.693	2.693 (0.335)	64	275826			0.00- 30.00	29.35
9 1,3-Butadiene						CAS #: 106-99-0	
2.693	2.693 (0.335)	54	716400	25.0000	21.941	70.00- 130.00	100.00
2.693	2.693 (0.335)	39	749376			0.00- 30.00	104.60
10 Bromomethane						CAS #: 74-83-9	
3.191	3.191 (0.397)	94	599083	25.0000	21.270	70.00- 130.00	100.00
3.191	3.191 (0.397)	96	583734			64.11- 124.11	97.44
12 Chloroethane						CAS #: 75-00-3	
3.301	3.301 (0.411)	64	497900	25.0000	23.809	70.00- 130.00	100.00
3.274	3.274 (0.408)	49	169378			0.00- 30.00	34.02
3.301	3.301 (0.411)	66	153703			0.00- 30.00	30.87
13 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.633	3.633 (0.452)	101	1959274	25.0000	22.644	70.00- 130.00	100.00
3.633	3.633 (0.452)	103	1269845			33.56- 93.56	64.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.965	3.965 (0.494)	45	391290	25.0000	22.569	70.00- 130.00	100.00
3.937	3.937 (0.490)	43	91872			0.00- 30.00	23.48
3.937	3.937 (0.490)	46	165838			0.00- 30.00	42.38
24 Freon 113					CAS #: 76-13-1		
4.435	4.435 (0.552)	151	1162668	25.0000	21.889	70.00- 130.00	100.00
4.463	4.463 (0.556)	153	775405			31.63- 91.63	66.69
4.435	4.435 (0.552)	101	1531088			95.13- 155.13	131.69
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	1387553	25.0000	21.635	70.00- 130.00	100.00
4.490	4.490 (0.559)	96	699423			17.76- 77.76	50.41
4.490	4.490 (0.559)	98	441101			0.00- 59.91	31.79
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	433157	25.0000	21.205	70.00- 130.00	100.00
4.628	4.628 (0.576)	43	1643029			0.00- 30.00	379.31
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	1662499	25.0000	22.493	70.00- 130.00	100.00
4.822	4.822 (0.601)	43	374515			0.00- 30.00	22.53
4.822	4.822 (0.601)	59	61888			0.00- 30.00	3.72
29 Carbon Disulfide					CAS #: 75-15-0		
4.822	4.822 (0.601)	76	1837050	25.0000	22.389	70.00- 130.00	100.00
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	1239920	25.0000	21.939	70.00- 130.00	100.00
5.375	5.375 (0.669)	84	591697			17.49- 77.49	47.72
5.375	5.375 (0.669)	51	371834			0.00- 30.00	29.99
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	1270453	25.0000	26.818	70.00- 130.00	100.00
5.734	5.734 (0.714)	57	406509			1.86- 61.86	32.00
5.734	5.734 (0.714)	41	454395			0.00- 30.00	35.77
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.790	5.790 (0.721)	96	716493	25.0000	22.710	70.00- 130.00	100.00
5.762	5.762 (0.718)	61	1287544			152.17- 212.17	179.70
5.790	5.790 (0.721)	98	442941			0.00- 30.00	61.82
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	1610861	25.0000	22.564	70.00- 130.00	100.00
6.149	6.149 (0.766)	43	1166705			0.00- 30.00	72.43
6.149	6.149 (0.766)	86	227190			0.00- 30.00	14.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	143332	25.0000	21.164	70.00- 130.00	100.00
6.647	6.647 (0.828)	43	2322785			0.00- 30.00	1620.56
6.647	6.647 (0.828)	42	207779			0.00- 30.00	144.96
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	1435682	25.0000	22.062	70.00- 130.00	100.00
6.564	6.564 (0.817)	65	426835			0.00- 59.89	29.73
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	335562	25.0000	21.625	70.00- 130.00	100.00
7.642	7.642 (0.952)	43	2054145			604.25- 664.25	612.15
7.642	7.642 (0.952)	57	137861			0.00- 30.00	41.08
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.587	7.587 (0.945)	61	1193064	25.0000	21.781	70.00- 130.00	100.00
7.615	7.615 (0.948)	96	736270			28.92- 88.92	61.71
7.615	7.615 (0.948)	98	454463			7.81- 67.81	38.09
57 Tetrahydrofuran					CAS #: 109-99-9		
8.029	8.029 (1.000)	42	1286613	25.0000	22.030	70.00- 130.00	100.00
8.029	8.029 (1.000)	71	302996			0.00- 53.41	23.55
8.029	8.029 (1.000)	72	326107			0.00- 30.00	25.35
59 Chloroform					CAS #: 67-66-3		
8.168	8.168 (1.017)	83	1197601	25.0000	23.341	70.00- 130.00	100.00
8.168	8.168 (1.017)	85	782868			34.04- 94.04	65.37
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	1378453	25.0000	22.979	70.00- 130.00	100.00
8.416	8.416 (1.048)	99	847882			35.43- 95.43	61.51
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	990145	25.0000	22.864	70.00- 130.00	100.00
8.416	8.416 (1.048)	56	1660265			138.19- 198.19	167.68
8.416	8.416 (1.048)	41	947330			65.76- 125.76	95.68
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	1364653	25.0000	22.208	70.00- 130.00	100.00
8.665	8.665 (1.079)	117	1450587			73.47- 133.47	106.30
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	1905057	25.0000	19.654	70.00- 130.00	100.00
9.080	9.080 (0.916)	77	463084			0.00- 30.00	24.31
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	1037810	25.0000	23.815	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 1,2-Dichloroethane (continued)							
9.246	9.246 (0.933)	64	310570			0.00- 30.00	29.93
75 Heptane					CAS #: 142-82-5		
9.522	9.522 (0.961)	100	253387	25.0000	21.995	70.00- 130.00	100.00
9.495	9.495 (0.958)	43	2012173			0.00- 30.00	794.11
9.495	9.495 (0.958)	71	717326			0.00- 30.00	283.10
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	779400	25.0000	23.578	70.00- 130.00	100.00
10.324	10.324 (1.042)	130	845046			77.61- 137.61	108.42
10.324	10.324 (1.042)	97	493954			34.18- 94.18	63.38
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	778797	25.0000	22.821	70.00- 130.00	100.00
10.822	10.822 (1.092)	62	573206			45.46- 105.46	73.60
10.822	10.822 (1.092)	41	609126			47.35- 107.35	78.21
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	440145	25.0000	21.983	70.00- 130.00	100.00
11.043	11.043 (1.114)	58	445362			64.35- 124.35	101.19
11.043	11.043 (1.114)	57	134637			0.00- 30.00	30.59
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	1128201	25.0000	24.036	70.00- 130.00	100.00
11.375	11.375 (1.148)	85	709043			33.09- 93.09	62.85
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	919450	25.0000	24.046	70.00- 130.00	100.00
12.287	12.287 (1.240)	77	282612			0.40- 60.40	30.74
12.287	12.287 (1.240)	39	729953			49.47- 109.47	79.39
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	718699	25.0000	24.123	70.00- 130.00	100.00
12.591	12.591 (1.271)	43	2183321			0.00- 30.00	303.79
12.619	12.619 (1.273)	85	217589			0.00- 30.00	30.28
99 Toluene					CAS #: 108-88-3		
12.813	12.813 (1.293)	91	2066426	25.0000	22.802	70.00- 130.00	100.00
12.813	12.813 (1.293)	92	1288049			30.22- 90.22	62.33
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	890325	25.0000	23.701	70.00- 130.00	100.00
13.338	13.338 (0.889)	77	276357			1.30- 61.30	31.04
13.338	13.338 (0.889)	39	670853			46.09- 106.09	75.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	674528	25.0000	22.422	70.00- 130.00	100.00
13.614	13.614 (0.908)	99	409338			30.53- 90.53	60.69
13.614	13.614 (0.908)	83	534521			48.18- 108.18	79.24
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	938531	25.0000	22.548	70.00- 130.00	100.00
13.697	13.697 (0.913)	129	693874			44.91- 104.91	73.93
13.697	13.697 (0.913)	131	677764			43.72- 103.72	72.22
103 2-Hexanone					CAS #: 591-78-6		
14.029	14.029 (0.935)	58	866829	25.0000	23.405	70.00- 130.00	100.00
14.029	14.029 (0.935)	43	1903838			186.04- 246.04	219.63
14.029	14.029 (0.935)	100	140676			0.00- 30.00	16.23
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	1019097	25.0000	23.085	70.00- 130.00	100.00
14.167	14.167 (0.945)	127	794259			0.00- 30.00	77.94
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	1027446	25.0000	23.404	70.00- 130.00	100.00
14.333	14.333 (0.956)	109	944275			65.83- 125.83	91.91
109 Chlorobenzene					CAS #: 108-90-7		
15.025	15.025 (1.002)	112	1656629	25.0000	22.928	70.00- 130.00	100.00
15.025	15.025 (1.002)	114	526103			0.94- 60.94	31.76
15.025	15.025 (1.002)	77	914756			24.15- 84.15	55.22
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	881848	25.0000	22.994	70.00- 130.00	100.00
15.163	15.163 (1.011)	91	2748173			0.00- 30.00	311.64
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	2167675	50.0000	41.116	70.00- 130.00	100.00
15.329	15.329 (1.022)	91	4182856			0.00- 30.00	192.97
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	1080188	25.0000	23.822	70.00- 130.00	100.00
15.854	15.854 (1.057)	91	2161725			169.60- 229.60	200.12
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	1423566	25.0000	22.831	70.00- 130.00	100.00
15.909	15.909 (1.061)	78	661796			17.14- 77.14	46.49
118 Bromoform					CAS #: 75-25-2		
16.158	16.158 (1.077)	173	836486	25.0000	23.468	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
118 Bromoform (continued)							
16.158	16.158 (1.077)	171	437624			21.36- 81.36	52.32
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	1345764	25.0000	22.440	70.00- 130.00	100.00
16.794	16.794 (1.120)	85	856953			34.48- 94.48	63.68
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	3133715	25.0000	22.880	70.00- 130.00	100.00
16.960	16.960 (1.131)	120	944599			0.25- 60.25	30.14
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	2607147	25.0000	22.902	70.00- 130.00	100.00
17.043	17.043 (1.136)	120	1301226			0.00- 30.00	49.91
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	2339581	25.0000	22.058	70.00- 130.00	100.00
17.458	17.458 (1.164)	120	1166648			17.91- 77.91	49.87
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	1485498	25.0000	22.746	70.00- 130.00	100.00
17.734	17.734 (1.183)	148	958120			0.00- 30.00	64.50
17.734	17.734 (1.183)	111	646124			0.00- 30.00	43.50
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	1869133	25.0000	22.482	70.00- 130.00	100.00
17.845	17.845 (1.190)	148	1181763			0.00- 30.00	63.23
17.845	17.845 (1.190)	111	701313			0.00- 30.00	37.52
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	1914426	25.0000	23.155	70.00- 130.00	100.00
17.983	17.983 (1.199)	126	439027			0.00- 30.00	22.93
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.177	18.177 (1.212)	146	1473515	25.0000	23.048	70.00- 130.00	100.00
18.177	18.177 (1.212)	148	913513			33.77- 93.77	62.00
18.177	18.177 (1.212)	111	645933			15.48- 75.48	43.84
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	1202670	25.0000	21.942	70.00- 130.00	100.00
19.476	19.476 (1.299)	182	1126253			66.86- 126.86	93.65
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	852855	25.0000	20.667	70.00- 130.00	100.00
19.559	19.559 (1.304)	223	544374			35.20- 95.20	63.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	3701539	25.0000	21.116	70.00- 130.00	100.00
16.324	16.324 (1.088)	120	1000824			0.00- 30.00	27.04
16.324	16.324 (1.088)	51	561503			0.00- 30.00	15.17
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	3838771	25.0000	22.933	70.00- 130.00	100.00
16.849	16.849 (1.124)	120	907187			0.00- 30.00	23.63
16.822	16.822 (1.122)	105	148702			0.00- 30.00	3.87
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	333458	25.0000	21.784	70.00- 130.00	100.00
5.126	5.126 (0.638)	41	1463670			0.00- 30.00	438.94
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.108	9.108 (1.134)	57	5382013	25.0000	22.216	70.00- 130.00	100.00
9.108	9.108 (1.134)	56	1830431			0.00- 30.00	34.01
9.108	9.108 (1.134)	41	1465111			0.00- 30.00	27.22
157 Naphthalene					CAS #: 91-20-3		
19.670	19.670 (1.312)	128	2224380	12.5000	10.152	70.00- 130.00	100.00
19.670	19.670 (1.312)	127	293185			0.00- 30.00	13.18
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	218691	25.0000	21.130	70.00- 130.00	100.00
2.610	2.610 (0.325)	43	1709971			0.00- 30.00	781.91
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	1484350	25.0000	21.195	70.00- 130.00	100.00
3.329	3.329 (0.415)	57	914452			0.00- 30.00	61.61
3.329	3.329 (0.415)	72	87912			0.00- 30.00	5.92
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	1237283	25.0000	23.145	70.00- 130.00	100.00
10.573	10.573 (1.317)	98	632400			0.00- 30.00	51.11
10.573	10.573 (1.317)	55	1497489			0.00- 30.00	121.03

Report Date: 22-Nov-2006 13:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112115.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-21nova.b/t14qn22a.m
Misc Info: 200ppbv-25ppbv

Calibration Date: 21-NOV-2006
Calibration Time: 23:55
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	489478	293687	685269	485021	-0.91
79 1,4-Difluorobenze	1959876	1175926	2743826	1930871	-1.48
108 Chlorobenzene-d5	1558376	935026	2181726	1529493	-1.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

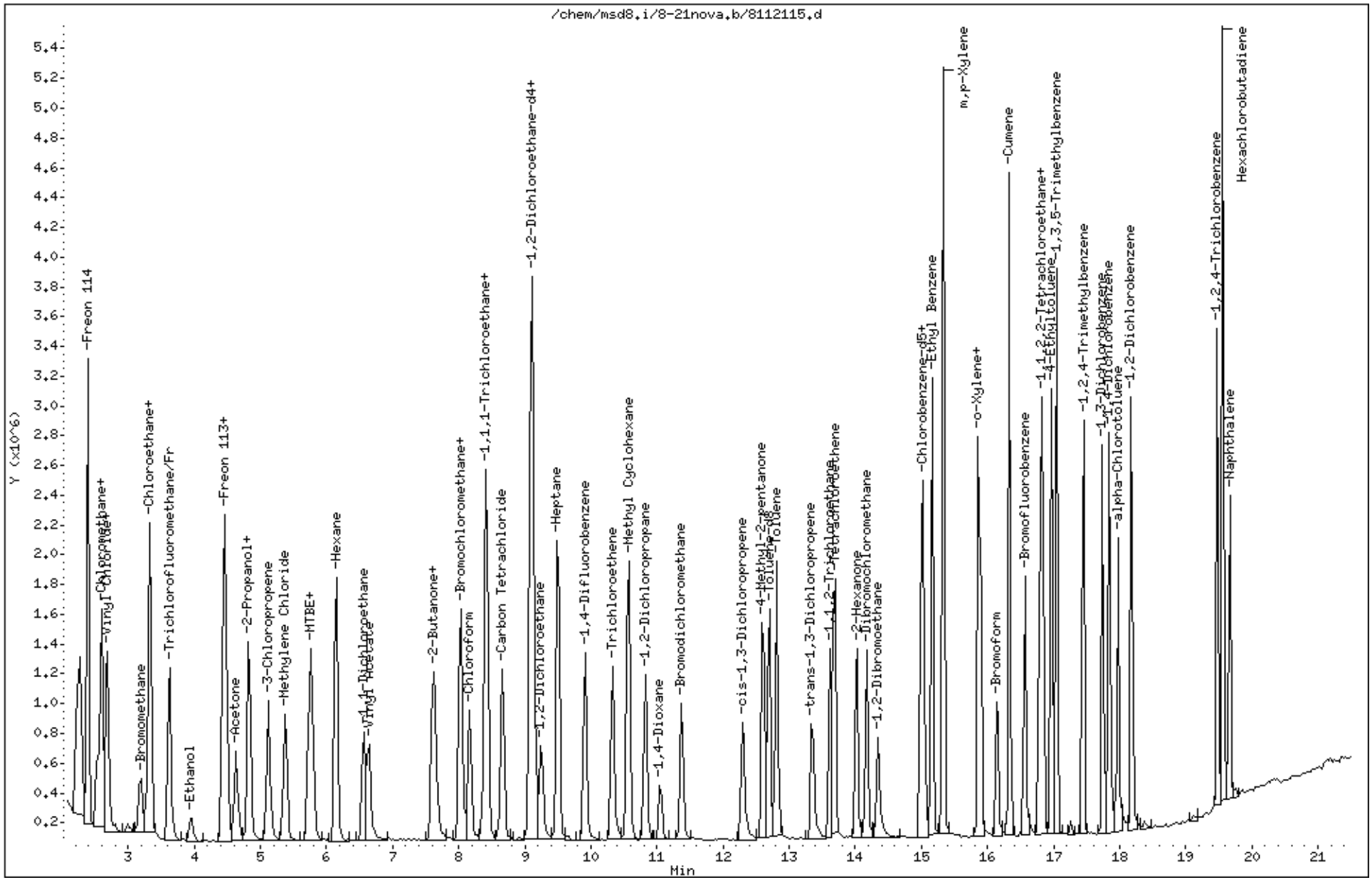
0134

Data File: /chem/msd8.i/8-21nova.b/8112115.d
Date : 21-NOV-2006 23:26
Client ID: Level 4
Sample Info: 25mL #1408-220

Instrument: msd8.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-15dec.b/8121506.d
Lab Smp Id: ICAL Client Smp ID: ICAL Level 5
Inj Date : 15-DEC-2006 12:30
Operator : EA Inst ID: msd8.i
Smp Info : 50ml #1408-160
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-15dec.b/t14qn22d.m
Meth Date : 18-Dec-2006 10:50 ejakob Quant Type: ISTD
Cal Date : 15-DEC-2006 12:30 Cal File: 8121506.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4c.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	336295	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	269867			50.25- 110.25	80.25
8.029	8.029 (1.000)	49	827094			215.94- 275.94	245.94
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1279467	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	200630			0.00- 45.68	15.68
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	894786	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	525065			28.68- 88.68	58.68
52 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.513	5.513 (0.687)	59	2029949	50.0000	50.449	80.00- 120.00	100.00
5.513	5.513 (0.687)	41	542650			0.00- 56.73	26.73
5.513	5.513 (0.687)	57	219051			0.00- 40.79	10.79
61 Isopropyl ether					CAS #: 108-20-3		
6.564	6.564 (0.817)	45	5311332	50.0000	48.551	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
61 Isopropyl ether (continued)							
6.564	6.564 (0.817)	87	864123			0.00- 46.27	16.27
6.564	6.564 (0.817)	59	477824			0.00- 39.00	9.00
67 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.200	7.200 (0.897)	59	3273868	50.0000	60.075	80.00- 120.00	100.00
7.200	7.200 (0.897)	87	1014035			0.97- 60.97	30.97
7.200	7.200 (0.897)	41	725598			0.00- 52.16	22.16
73 Ethyl Acetate					CAS #: 141-78-6		
7.697	7.697 (0.959)	70	182974	50.0000	44.338	80.00- 120.00	100.00
7.697	7.697 (0.959)	43	3320757			1784.88-1844.88	1814.88
7.697	7.697 (0.959)	61	358846			166.12- 226.12	196.12
84 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.273	9.273 (1.155)	73	2247408	50.0000	53.760	80.00- 120.00	100.00
9.273	9.273 (1.155)	87	570762			0.00- 55.40	25.40
9.273	9.273 (1.155)	55	934151			11.57- 71.57	41.57

Report Date: 18-Dec-2006 10:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8121506.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msd8.i/8-15dec.b/t14qn22d.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 15-DEC-2006
Calibration Time: 12:30
Client Smp ID: ICAL Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	336295	201777	470813	336295	0.00
79 1,4-Difluorobenze	1279467	767680	1791254	1279467	0.00
108 Chlorobenzene-d5	894786	536872	1252700	894786	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

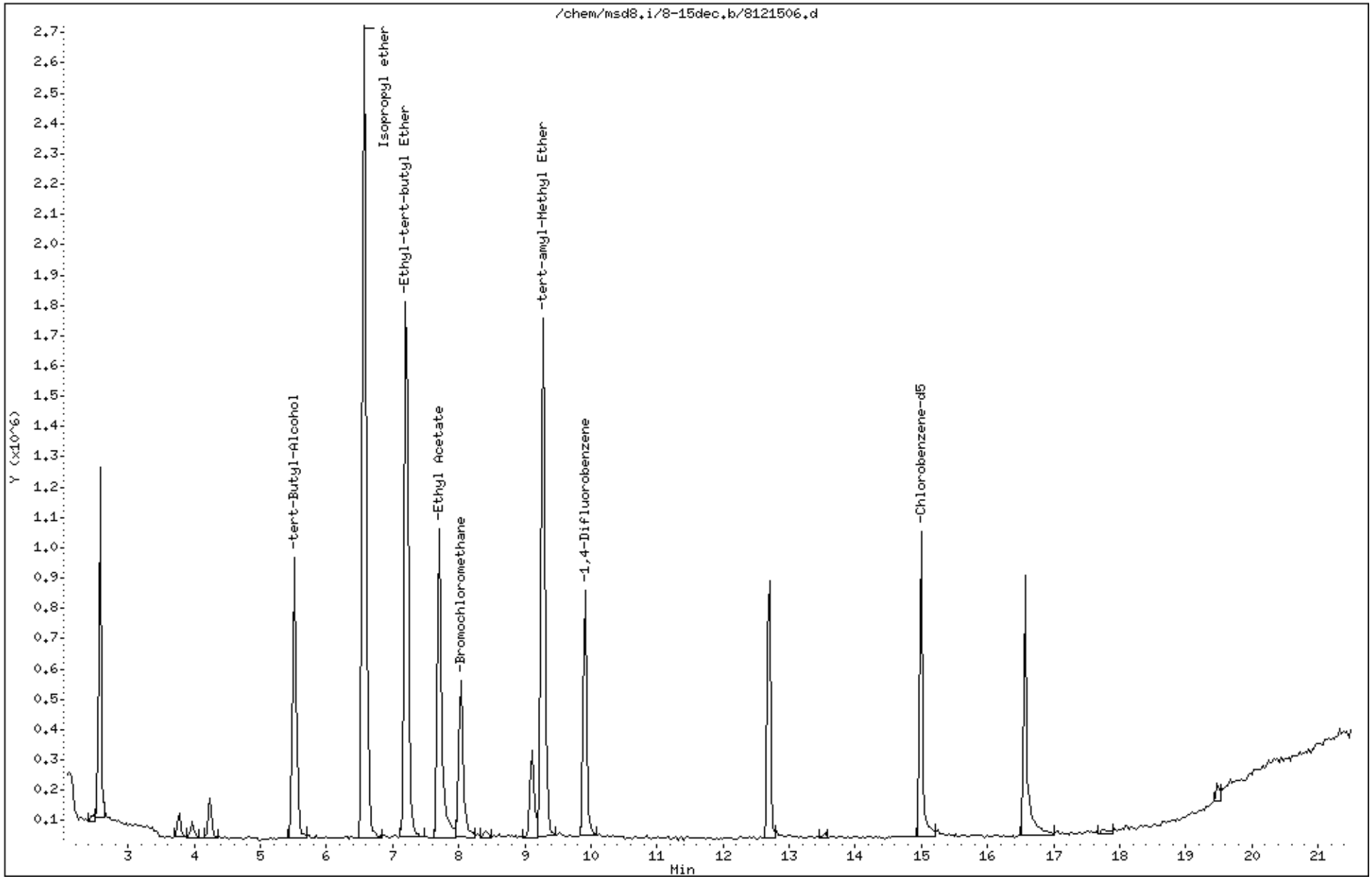
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0138

Data File: /chem/msd8.i/8-15dec.b/8121506.d
Date : 15-DEC-2006 12:30
Client ID: ICAL Level 5
Sample Info: 50ml #1408-160

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-14dec.b/8121406.d
Lab Smp Id: ICAL Client Smp ID: LEVEL 5
Inj Date : 14-DEC-2006 12:26
Operator : EA Inst ID: msd8.i
Smp Info : 50ml #1413-406
Misc Info : 50ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-14dec.b/t14qn22c.m
Meth Date : 15-Dec-2006 13:25 ejakob Quant Type: ISTD
Cal Date : 14-DEC-2006 12:26 Cal File: 8121406.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp3c.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	373029	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	269451			42.23- 102.23	72.23
8.029	8.029 (1.000)	49	839979			195.18- 255.18	225.18
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1432726	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	215265			0.00- 45.02	15.02
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1007047	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	564134			26.02- 86.02	56.02
37 Vinyl Bromide					CAS #: 593-60-2		
3.550	3.550 (0.442)	106	634872	50.0000	48.852	80.00- 120.00	100.00
3.550	3.550 (0.442)	108	618617			67.44- 127.44	97.44
51 Acetonitrile					CAS #: 75-05-8		
5.209	5.209 (0.649)	40	650417	50.0000	42.013	80.00- 120.00	100.00
5.237	5.237 (0.652)	41	2348114			331.02- 391.02	361.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Acetonitrile (continued)							
5.209	5.209 (0.649)	38	155839			0.00- 53.96	23.96
55 Acrylonitrile					CAS #: 107-13-1		
5.900	5.900 (0.735)	53	1036329	50.0000	54.363	80.00- 120.00	100.00
5.900	5.900 (0.735)	52	860896			53.07- 113.07	83.07

Report Date: 15-Dec-2006 13:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8121406.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msd8.i/8-14dec.b/t14qn22c.m
Misc Info: 50ppbv-50ppbv

Calibration Date: 14-DEC-2006
Calibration Time: 12:26
Client Smp ID: LEVEL 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	373029	223817	522241	373029	0.00
79 1,4-Difluorobenze	1432726	859636	2005816	1432726	0.00
108 Chlorobenzene-d5	1007047	604228	1409866	1007047	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

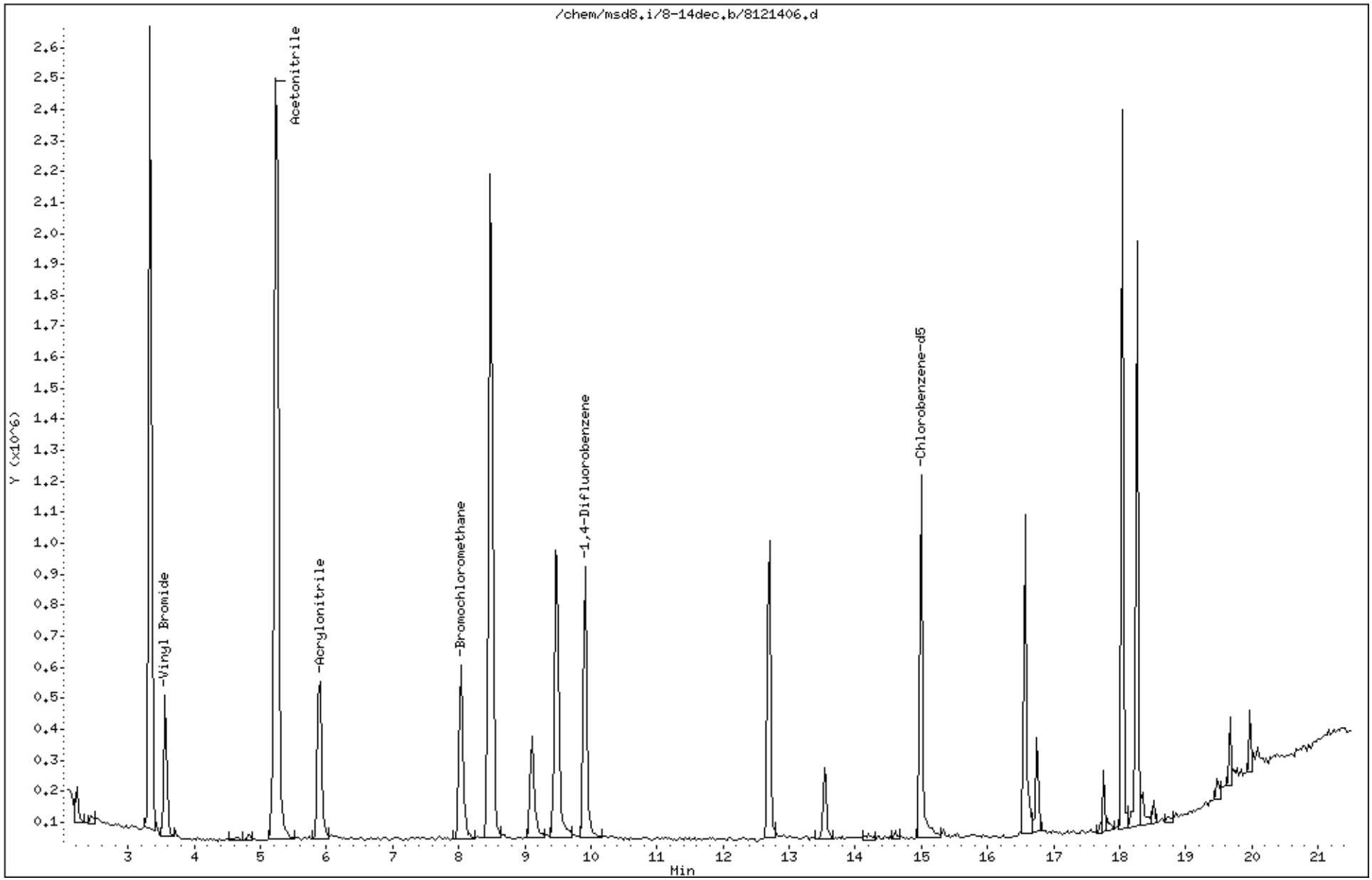
0142

Data File: /chem/msd8.i/8-14dec.b/8121406.d
Date : 14-DEC-2006 12:26
Client ID: LEVEL 5
Sample Info: 50ml #1413-406

Column phase: RTx-624

Instrument: msd8.i

Operator: EA
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-27nov.b/8112708.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 27-NOV-2006 14:35
Operator : JG Inst ID: msd8.i
Smp Info : 50mL #1408-222
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn22b.m
Meth Date : 27-Nov-2006 16:57 jgray Quant Type: ISTD
Cal Date : 27-NOV-2006 14:35 Cal File: 8112708.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp23b.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
==	====== ========	====	========	=======	=======	==========	=====
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	418922	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	333084			49.51- 109.51	79.51
8.029	8.029 (1.000)	49	995487			207.63- 267.63	237.63
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1735257	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	269048			0.00- 45.50	15.50
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1289485	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	747812			27.99- 87.99	57.99
61 Isopropyl ether					CAS #: 108-20-3		
6.564	6.564 (0.817)	45	6118168	50.0000	48.854	80.00- 120.00	100.00
6.564	6.564 (0.817)	87	1029155			0.00- 46.82	16.82
6.564	6.564 (0.817)	59	557568			0.00- 39.11	9.11
74 2,2-Dichloropropane					CAS #: 594-20-7		
7.559	7.559 (0.941)	77	1570537	50.0000	59.725	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
74 2,2-Dichloropropane (continued)							
7.559	7.559 (0.941)	79	483975			0.82- 60.82	30.82
7.559	7.559 (0.941)	97	315631			0.00- 50.10	20.10
98 Dibromomethane					CAS #: 74-95-3		
11.071	11.071 (1.117)	174	1075558	50.0000	46.412	80.00- 120.00	100.00
11.071	11.071 (1.117)	93	1053560			67.95- 127.95	97.95
11.071	11.071 (1.117)	95	875692			51.42- 111.42	81.42
110 1,3-Dichloropropane					CAS #: 142-28-9		
13.891	13.891 (1.402)	76	1643765	50.0000	51.339	80.00- 120.00	100.00
13.891	13.891 (1.402)	41	1692442			72.96- 132.96	102.96
13.891	13.891 (1.402)	78	493209			0.00- 60.00	30.00
116 Nonane					CAS #: 111-84-2		
15.329	15.329 (1.022)	43	4441853	50.0000	50.288	80.00- 120.00	100.00
15.329	15.329 (1.022)	57	3456081			47.81- 107.81	77.81
15.329	15.329 (1.022)	85	897288			0.00- 50.20	20.20
117 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.163	15.163 (1.011)	131	1364814	50.0000	51.337	80.00- 120.00	100.00
15.163	15.163 (1.011)	117	944236			39.18- 99.18	69.18
15.163	15.163 (1.011)	95	515861			7.80- 67.80	37.80
130 Bromobenzene					CAS #: 108-86-1		
16.739	16.739 (1.116)	156	1563136	50.0000	49.996	80.00- 120.00	100.00
16.711	16.711 (1.114)	77	2333267			119.27- 179.27	149.27
16.739	16.739 (1.116)	158	1397105			59.38- 119.38	89.38
133 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.849	16.849 (1.124)	110	770328	50.0000	47.964	80.00- 120.00	100.00
16.822	16.822 (1.122)	61	641379			53.26- 113.26	83.26
16.849	16.849 (1.124)	112	488173			33.37- 93.37	63.37
134 2-Chlorotoluene					CAS #: 95-49-8		
16.960	16.960 (1.131)	126	1288690	50.0000	48.513	80.00- 120.00	100.00
16.960	16.960 (1.131)	91	3849651			268.73- 328.73	298.73
16.932	16.932 (1.129)	65	349028			0.00- 57.08	27.08
137 4-Chlorotoluene					CAS #: 106-43-4		
17.098	17.098 (1.140)	126	1167730	50.0000	48.436	80.00- 120.00	100.00
17.071	17.071 (1.138)	91	3561753			275.02- 335.02	305.02
17.071	17.071 (1.138)	63	526692			15.10- 75.10	45.10
143 tert-Butylbenzene					CAS #: 98-06-6		
17.375	17.375 (1.159)	119	6055150	50.0000	50.832	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 tert-Butylbenzene (continued)							
17.375	17.375 (1.159)	134	1334746			0.00- 52.04	22.04
17.375	17.375 (1.159)	91	3136100			21.79- 81.79	51.79
145 sec-Butylbenzene					CAS #: 135-98-8		
17.596	17.596 (1.173)	105	6738552	50.0000	50.043	80.00- 120.00	100.00
17.624	17.624 (1.175)	134	1346245			0.00- 49.98	19.98
17.596	17.596 (1.173)	91	1024289			0.00- 45.20	15.20
148 p-Cymene					CAS #: 99-87-6		
17.762	17.762 (1.184)	134	1600293	50.0000	48.780	80.00- 120.00	100.00
17.762	17.762 (1.184)	119	5955733			342.17- 402.17	372.17
17.762	17.762 (1.184)	91	1211201			45.69- 105.69	75.69
150 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.872	17.872 (1.192)	120	1967444	50.0000	47.311	80.00- 120.00	100.00
17.872	17.872 (1.192)	105	4407490			194.02- 254.02	224.02
17.872	17.872 (1.192)	77	468395			0.00- 53.81	23.81
151 Butylbenzene					CAS #: 104-51-8		
18.149	18.149 (1.210)	134	1245422	50.0000	49.790	80.00- 120.00	100.00
18.121	18.121 (1.208)	91	4316231			316.57- 376.57	346.57
18.121	18.121 (1.208)	92	2444541			166.28- 226.28	196.28
154 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.868	18.868 (1.258)	157	1578281	50.0000	51.340	80.00- 120.00	100.00
18.868	18.868 (1.258)	75	1240092			48.57- 108.57	78.57
18.868	18.868 (1.258)	155	1214947			46.98- 106.98	76.98
188 1,1-Dichloropropene					CAS #: 563-58-6		
8.720	8.720 (1.086)	110	613698	50.0000	49.034	80.00- 120.00	100.00
8.720	8.720 (1.086)	75	1642872			237.70- 297.70	267.70
122 Cyclohexanone					CAS #: 108-94-1		
16.490	16.490 (1.100)	55	1536092	50.0000	49.232	80.00- 120.00	100.00
16.490	16.490 (1.100)	98	457449			0.00- 59.78	29.78
16.490	16.490 (1.100)	42	1141874			44.34- 104.34	74.34
1 Freon 152a					CAS #: 75-37-6		
2.223	2.223 (0.277)	65	924854	50.0000	48.523	80.00- 120.00	100.00
2.223	2.223 (0.277)	51	2441462			233.98- 293.98	263.98
19 Freon123a					CAS #: 354-23-4		
4.186	4.186 (0.521)	67	545996	50.0000	46.125	80.00- 120.00	100.00
4.186	4.186 (0.521)	117	379466			39.50- 99.50	69.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Freon123					CAS #: 306-83-2		
4.297	4.297 (0.535)	83	1287837	50.0000	46.978	80.00- 120.00	100.00
4.297	4.297 (0.535)	133	285799			0.00- 52.19	22.19
4.297	4.297 (0.535)	85	839847			35.21- 95.21	65.21
191 Pentachloroethane					CAS #: 76-01-7		
17.430	17.430 (1.162)	167	1362362	50.0000	50.117	80.00- 120.00	100.00
17.430	17.430 (1.162)	117	1456324			76.90- 136.90	106.90

Report Date: 27-Nov-2006 16:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112708.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd8.i/8-27nov.b/t14qn22b.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 27-NOV-2006
Calibration Time: 14:35
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	418922	251353	586491	418922	0.00
79 1,4-Difluorobenze	1735257	1041154	2429360	1735257	0.00
108 Chlorobenzene-d5	1289485	773691	1805279	1289485	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

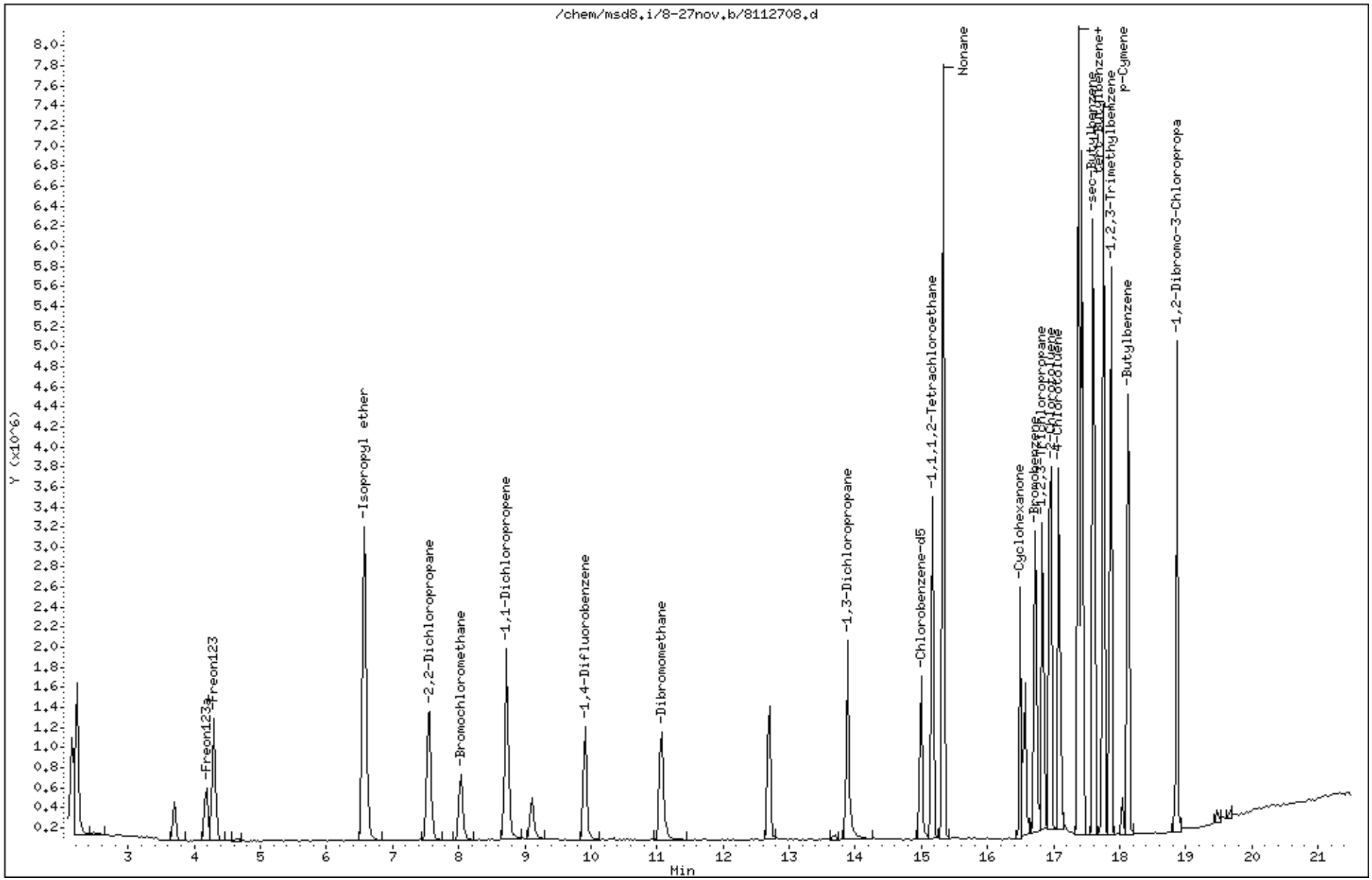
0148

Data File: /chem/msd8.i/8-27nov.b/8112708.d
Date : 27-NOV-2006 14:35
Client ID: Level 5
Sample Info: 50mL #1408-222

Column phase: RTx-624

Instrument: msd8.i

Operator: JG
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21nova.b/8112116.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 21-NOV-2006 23:55
Operator : kr Inst ID: msd8.i
Smp Info : 50mL #1408-220
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-21nova.b/t14qn22a.m
Meth Date : 22-Nov-2006 13:00 jgray Quant Type: ISTD
Cal Date : 21-NOV-2006 23:55 Cal File: 8112116.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+Na+ENSR.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	489478	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	366555			44.89- 104.89	74.89
8.029	8.029 (1.000)	49	1095492			193.81- 253.81	223.81
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1959876	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	306163			0.00- 45.62	15.62
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1558376	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	861940			25.31- 85.31	55.31
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.107	9.107 (1.134)	65	732577	25.0000	24.308	80.00- 120.00	100.00
9.107	9.107 (1.134)	67	403672			25.10- 85.10	55.10
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1841810	25.0000	25.826	80.00- 120.00	100.00
12.702	12.702 (1.282)	70	202562			0.00- 41.00	11.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1292161			40.16- 100.16	70.16
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	852752	25.0000	25.592	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	1100456			99.05- 159.05	129.05
16.573	16.573 (1.105)	176	820752			66.25- 126.25	96.25
6 Propylene					CAS #: 115-07-1		
2.223	2.223 (0.277)	41	1914978	50.0000	40.502	80.00- 120.00	100.00
2.223	2.223 (0.277)	42	1252287			35.39- 95.39	65.39
2.223	2.223 (0.277)	39	1389429			42.56- 102.56	72.56
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.278 (0.284)	85	3781401	50.0000	39.822	80.00- 120.00	100.00
2.278	2.278 (0.284)	87	1219303			2.24- 62.24	32.24
4 Freon 114					CAS #: 76-14-2		
2.389	2.389 (0.297)	135	2685524	50.0000	40.080	80.00- 120.00	100.00
2.389	2.389 (0.297)	137	851349			1.70- 61.70	31.70
5 Chloromethane					CAS #: 74-87-3		
2.527	2.527 (0.315)	50	2094953	50.0000	39.684	80.00- 120.00	100.00
2.527	2.527 (0.315)	52	649734			1.01- 61.01	31.01
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.693 (0.335)	62	1781858	50.0000	40.774	80.00- 120.00	100.00
2.693	2.693 (0.335)	64	531906			0.00- 59.85	29.85
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	1358009	50.0000	41.213	80.00- 120.00	100.00
2.693	2.693 (0.335)	39	1486344			79.45- 139.45	109.45
10 Bromomethane					CAS #: 74-83-9		
3.191	3.191 (0.397)	94	1170502	50.0000	41.180	80.00- 120.00	100.00
3.191	3.191 (0.397)	96	1101545			64.11- 124.11	94.11
12 Chloroethane					CAS #: 75-00-3		
3.301	3.301 (0.411)	64	951176	50.0000	45.070	80.00- 120.00	100.00
3.301	3.301 (0.411)	49	306220			2.19- 62.19	32.19
3.301	3.301 (0.411)	66	279801			0.00- 59.42	29.42
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	3689247	50.0000	42.249	80.00- 120.00	100.00
3.633	3.633 (0.452)	103	2345064			33.56- 93.56	63.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.965	3.965 (0.494)	45	771686	50.0000	44.104	80.00- 120.00	100.00
3.965	3.965 (0.494)	43	159286			0.00- 50.64	20.64
3.965	3.965 (0.494)	46	321126			11.61- 71.61	41.61
24 Freon 113					CAS #: 76-13-1		
4.435	4.435 (0.552)	151	2250776	50.0000	41.988	80.00- 120.00	100.00
4.435	4.435 (0.552)	153	1387212			31.63- 91.63	61.63
4.435	4.435 (0.552)	101	2816291			95.13- 155.13	125.13
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	2755175	50.0000	42.567	80.00- 120.00	100.00
4.490	4.490 (0.559)	96	1315810			17.76- 77.76	47.76
4.490	4.490 (0.559)	98	823960			0.00- 59.91	29.91
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	838111	50.0000	40.657	80.00- 120.00	100.00
4.628	4.628 (0.576)	43	3192035			350.86- 410.86	380.86
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	3364543	50.0000	45.106	80.00- 120.00	100.00
4.822	4.822 (0.601)	43	710780			0.00- 51.13	21.13
4.822	4.822 (0.601)	59	111324			0.00- 33.31	3.31
29 Carbon Disulfide					CAS #: 75-15-0		
4.822	4.822 (0.601)	76	3528162	50.0000	42.609	80.00- 120.00	100.00
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	2412541	50.0000	42.299	80.00- 120.00	100.00
5.375	5.375 (0.669)	84	1145798			17.49- 77.49	47.49
5.375	5.375 (0.669)	51	708622			0.00- 59.37	29.37
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	2138594	50.0000	44.732	80.00- 120.00	100.00
5.734	5.734 (0.714)	57	681267			1.86- 61.86	31.86
5.734	5.734 (0.714)	41	748858			5.02- 65.02	35.02
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.762	5.762 (0.718)	96	1315633	50.0000	41.320	80.00- 120.00	100.00
5.762	5.762 (0.718)	61	2396671			152.17- 212.17	182.17
5.790	5.790 (0.721)	98	841650			33.97- 93.97	63.97
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	3136857	50.0000	43.540	80.00- 120.00	100.00
6.149	6.149 (0.766)	43	2212195			40.52- 100.52	70.52
6.149	6.149 (0.766)	86	446397			0.00- 44.23	14.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	318423	50.0000	46.588	80.00- 120.00	100.00
6.647	6.647 (0.828)	43	4785431			1472.85-1532.85	1502.85
6.647	6.647 (0.828)	42	405872			97.46- 157.46	127.46
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	2765996	50.0000	42.118	80.00- 120.00	100.00
6.564	6.564 (0.817)	65	826765			0.00- 59.89	29.89
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	661041	50.0000	42.212	80.00- 120.00	100.00
7.642	7.642 (0.952)	43	4192669			604.25- 664.25	634.25
7.642	7.642 (0.952)	57	282197			12.69- 72.69	42.69
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.587	7.587 (0.945)	61	2304453	50.0000	41.688	80.00- 120.00	100.00
7.587	7.587 (0.945)	96	1357699			28.92- 88.92	58.92
7.614	7.614 (0.948)	98	871303			7.81- 67.81	37.81
57 Tetrahydrofuran					CAS #: 109-99-9		
8.029	8.029 (1.000)	42	2525385	50.0000	42.847	80.00- 120.00	100.00
8.029	8.029 (1.000)	71	591178			0.00- 53.41	23.41
8.029	8.029 (1.000)	72	640785			0.00- 55.37	25.37
59 Chloroform					CAS #: 67-66-3		
8.167	8.167 (1.017)	83	2284642	50.0000	44.122	80.00- 120.00	100.00
8.167	8.167 (1.017)	85	1463025			34.04- 94.04	64.04
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	2578940	50.0000	42.600	80.00- 120.00	100.00
8.416	8.416 (1.048)	99	1687367			35.43- 95.43	65.43
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	1906627	50.0000	43.626	80.00- 120.00	100.00
8.416	8.416 (1.048)	56	3206754			138.19- 198.19	168.19
8.416	8.416 (1.048)	41	1825868			65.76- 125.76	95.76
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	2653263	50.0000	42.785	80.00- 120.00	100.00
8.665	8.665 (1.079)	117	2745456			73.47- 133.47	103.47
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	3728997	50.0000	37.902	80.00- 120.00	100.00
9.080	9.080 (0.916)	77	881737			0.00- 53.65	23.65
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	1949643	50.0000	44.076	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 1,2-Dichloroethane (continued)							
9.246	9.246 (0.933)	64	578197			0.00- 59.66	29.66
75 Heptane					CAS #: 142-82-5		
9.522	9.522 (0.961)	100	496691	50.0000	42.476	80.00- 120.00	100.00
9.495	9.495 (0.958)	43	3852808			745.70- 805.70	775.70
9.495	9.495 (0.958)	71	1427802			257.46- 317.46	287.46
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	1501125	50.0000	44.739	80.00- 120.00	100.00
10.324	10.324 (1.042)	130	1615368			77.61- 137.61	107.61
10.324	10.324 (1.042)	97	963348			34.18- 94.18	64.18
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	1473556	50.0000	42.540	80.00- 120.00	100.00
10.822	10.822 (1.092)	62	1111918			45.46- 105.46	75.46
10.822	10.822 (1.092)	41	1139848			47.35- 107.35	77.35
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	888640	50.0000	43.727	80.00- 120.00	100.00
11.043	11.043 (1.114)	58	838470			64.35- 124.35	94.35
11.043	11.043 (1.114)	57	270959			0.49- 60.49	30.49
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	2199966	50.0000	46.177	80.00- 120.00	100.00
11.375	11.375 (1.148)	85	1387867			33.09- 93.09	63.09
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	1816104	50.0000	46.793	80.00- 120.00	100.00
12.287	12.287 (1.240)	77	552030			0.40- 60.40	30.40
12.287	12.287 (1.240)	39	1443334			49.47- 109.47	79.47
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	1466529	50.0000	48.495	80.00- 120.00	100.00
12.591	12.591 (1.271)	43	4361832			267.43- 327.43	297.43
12.591	12.591 (1.271)	85	473213			2.27- 62.27	32.27
99 Toluene					CAS #: 108-88-3		
12.813	12.813 (1.293)	91	4038515	50.0000	43.903	80.00- 120.00	100.00
12.813	12.813 (1.293)	92	2431948			30.22- 90.22	60.22
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	1753876	50.0000	45.824	80.00- 120.00	100.00
13.338	13.338 (0.889)	77	548968			1.30- 61.30	31.30
13.338	13.338 (0.889)	39	1334589			46.09- 106.09	76.09

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	1308235	50.0000	42.681	80.00- 120.00	100.00
13.614	13.614 (0.908)	99	791880			30.53- 90.53	60.53
13.614	13.614 (0.908)	83	1022834			48.18- 108.18	78.18
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	1798432	50.0000	42.406	80.00- 120.00	100.00
13.697	13.697 (0.913)	129	1347121			44.91- 104.91	74.91
13.697	13.697 (0.913)	131	1325879			43.72- 103.72	73.72
103 2-Hexanone					CAS #: 591-78-6		
14.029	14.029 (0.935)	58	1823690	50.0000	48.329	80.00- 120.00	100.00
14.001	14.001 (0.934)	43	3939912			186.04- 246.04	216.04
14.029	14.029 (0.935)	100	306027			0.00- 46.78	16.78
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	2088241	50.0000	46.428	80.00- 120.00	100.00
14.167	14.167 (0.945)	127	1598361			46.54- 106.54	76.54
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	1950420	50.0000	43.604	80.00- 120.00	100.00
14.333	14.333 (0.956)	109	1869102			65.83- 125.83	95.83
109 Chlorobenzene					CAS #: 108-90-7		
15.024	15.024 (1.002)	112	3201777	50.0000	43.491	80.00- 120.00	100.00
15.024	15.024 (1.002)	114	990635			0.94- 60.94	30.94
15.024	15.024 (1.002)	77	1733852			24.15- 84.15	54.15
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	1741293	50.0000	44.563	80.00- 120.00	100.00
15.163	15.163 (1.011)	91	5357025			277.65- 337.65	307.65
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	4285299	100.000	79.775	80.00- 120.00	100.00
15.329	15.329 (1.022)	91	8361597			165.12- 225.12	195.12
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	2052783	50.0000	44.432	80.00- 120.00	100.00
15.854	15.854 (1.057)	91	4097378			169.60- 229.60	199.60
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	2889112	50.0000	45.476	80.00- 120.00	100.00
15.909	15.909 (1.061)	78	1361849			17.14- 77.14	47.14
118 Bromoform					CAS #: 75-25-2		
16.158	16.158 (1.077)	173	1799623	50.0000	49.554	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
118 Bromoform (continued)							
16.158	16.158 (1.077)	171	924278			21.36- 81.36	51.36
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	2556253	50.0000	41.835	80.00- 120.00	100.00
16.794	16.794 (1.120)	85	1648395			34.48- 94.48	64.48
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	6137158	50.0000	43.978	80.00- 120.00	100.00
16.960	16.960 (1.131)	120	1856776			0.25- 60.25	30.25
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	5091110	50.0000	43.893	80.00- 120.00	100.00
17.043	17.043 (1.136)	120	2525549			19.61- 79.61	49.61
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	4659482	50.0000	43.116	80.00- 120.00	100.00
17.458	17.458 (1.164)	120	2232187			17.91- 77.91	47.91
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	2986467	50.0000	44.882	80.00- 120.00	100.00
17.734	17.734 (1.183)	148	1860362			32.29- 92.29	62.29
17.734	17.734 (1.183)	111	1268406			12.47- 72.47	42.47
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	3492200	50.0000	41.226	80.00- 120.00	100.00(M)
17.845	17.845 (1.190)	148	1891129			24.15- 84.15	54.15
17.845	17.845 (1.190)	111	1243535			5.61- 65.61	35.61
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	4132026	50.0000	49.050	80.00- 120.00	100.00
17.983	17.983 (1.199)	126	935457			0.00- 52.64	22.64
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.177	18.177 (1.212)	146	2847716	50.0000	43.718	80.00- 120.00	100.00
18.177	18.177 (1.212)	148	1816012			33.77- 93.77	63.77
18.177	18.177 (1.212)	111	1295013			15.48- 75.48	45.48
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	2384842	50.0000	42.703	80.00- 120.00	100.00
19.476	19.476 (1.299)	182	2309871			66.86- 126.86	96.86
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	1616847	50.0000	38.455	80.00- 120.00	100.00
19.559	19.559 (1.304)	223	1054211			35.20- 95.20	65.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	7142908	50.0000	39.992	80.00- 120.00	100.00
16.324	16.324 (1.088)	120	1876471			0.00- 56.27	26.27
16.324	16.324 (1.088)	51	1088485			0.00- 45.24	15.24
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	7446373	50.0000	43.660	80.00- 120.00	100.00
16.849	16.849 (1.124)	120	1747406			0.00- 53.47	23.47
16.822	16.822 (1.122)	105	292470			0.00- 33.93	3.93
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	666951	50.0000	43.174	80.00- 120.00	100.00
5.126	5.126 (0.638)	41	2834734			395.03- 455.03	425.03
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.107	9.107 (1.134)	57	10330028	50.0000	42.252	80.00- 120.00	100.00
9.107	9.107 (1.134)	56	3530146			4.17- 64.17	34.17
9.107	9.107 (1.134)	41	2822703			0.00- 57.33	27.33
157 Naphthalene					CAS #: 91-20-3		
19.670	19.670 (1.312)	128	4603824	25.0000	20.622	80.00- 120.00	100.00
19.670	19.670 (1.312)	127	618893			0.00- 43.44	13.44
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	424976	50.0000	40.687	80.00- 120.00	100.00
2.610	2.610 (0.325)	43	3271484			739.80- 799.80	769.80
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	2862581	50.0000	40.503	80.00- 120.00	100.00
3.329	3.329 (0.415)	57	1723929			30.22- 90.22	60.22
3.329	3.329 (0.415)	72	162933			0.00- 35.69	5.69
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	2404205	50.0000	44.564	80.00- 120.00	100.00
10.573	10.573 (1.317)	98	1195045			19.71- 79.71	49.71
10.573	10.573 (1.317)	55	2865771			89.20- 149.20	119.20

QC Flag Legend

M - Compound response manually integrated.

Report Date: 22-Nov-2006 13:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112116.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-21nova.b/t14qn22a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 21-NOV-2006
Calibration Time: 23:55
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	489478	293687	685269	489478	0.00
79 1,4-Difluorobenze	1959876	1175926	2743826	1959876	0.00
108 Chlorobenzene-d5	1558376	935026	2181726	1558376	0.00

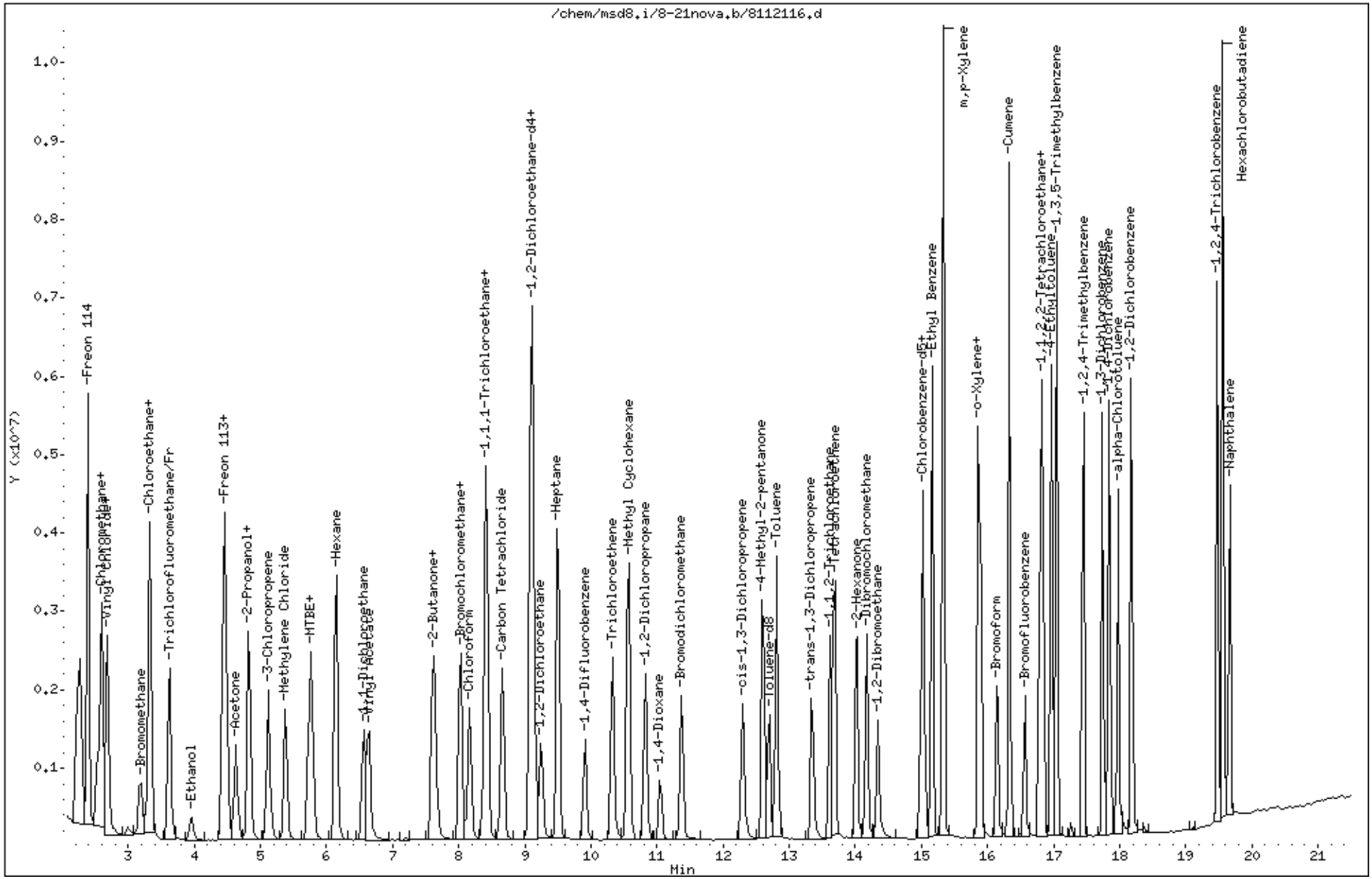
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd8.i/8-21nova.b/8112116.d
Date : 21-NOV-2006 23:55
Client ID: Level 5
Sample Info: 50mL #1408-220

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21nova.b/8112117.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 22-NOV-2006 00:24
Operator : kr Inst ID: msd8.i
Smp Info : 100mL #1408-220
Misc Info : 200ppbv-100ppbv
Comment :
Method : /chem/msd8.i/8-21nova.b/t14qn22a.m
Meth Date : 22-Nov-2006 13:00 jgray Quant Type: ISTD
Cal Date : 22-NOV-2006 00:24 Cal File: 8112117.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+Na+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
==	====== ========	====	========	=======	=======	==========	=====
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	470411	25.0000		70.00- 130.00	100.00
8.029	8.029 (1.000)	128	366102			44.89- 104.89	77.83
8.029	8.029 (1.000)	49	1071161			193.81- 253.81	227.71
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1954394	25.0000		70.00- 130.00	100.00
9.909	9.909 (1.000)	88	320279			0.00- 45.62	16.39
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1530170	25.0000		70.00- 130.00	100.00
14.997	14.997 (1.000)	82	838695			0.00- 30.00	54.81
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.108 (1.134)	65	765479	25.0000	26.130	70.00- 130.00	100.00
9.108	9.108 (1.134)	67	465948			0.00- 30.00	60.87
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1879077	25.0000	26.125	70.00- 130.00	100.00
12.702	12.702 (1.282)	70	200277			0.00- 30.00	10.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1288278			0.00- 30.00	68.56
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	896190	25.0000	26.877	70.00- 130.00	100.00
16.573	16.573 (1.105)	95	1126208			99.05- 159.05	125.67
16.573	16.573 (1.105)	176	848746			66.25- 126.25	94.71
6 Propylene					CAS #: 115-07-1		
2.223	2.223 (0.277)	41	3771379	100.000	86.683	70.00- 130.00	100.00
2.223	2.223 (0.277)	42	2466288			0.00- 30.00	65.39
2.223	2.223 (0.277)	39	2726211			0.00- 30.00	72.29
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.278 (0.284)	85	7781469	100.000	88.529	70.00- 130.00	100.00
2.278	2.278 (0.284)	87	2525402			0.00- 30.00	32.45
4 Freon 114					CAS #: 76-14-2		
2.389	2.389 (0.298)	135	5213463	100.000	85.008	70.00- 130.00	100.00
2.389	2.389 (0.298)	137	1632708			1.70- 61.70	31.32
5 Chloromethane					CAS #: 74-87-3		
2.527	2.527 (0.315)	50	4007654	100.000	83.372	70.00- 130.00	100.00
2.527	2.527 (0.315)	52	1212198			0.00- 30.00	30.25
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.693 (0.335)	62	3513685	100.000	87.224	70.00- 130.00	100.00
2.693	2.693 (0.335)	64	1015284			0.00- 30.00	28.90
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	2740687	100.000	89.558	70.00- 130.00	100.00
2.693	2.693 (0.335)	39	2922778			0.00- 30.00	106.64
10 Bromomethane					CAS #: 74-83-9		
3.163	3.163 (0.394)	94	2255003	100.000	86.316	70.00- 130.00	100.00
3.163	3.163 (0.394)	96	2097088			64.11- 124.11	93.00
12 Chloroethane					CAS #: 75-00-3		
3.301	3.301 (0.411)	64	1901220	100.000	95.229	70.00- 130.00	100.00
3.301	3.301 (0.411)	49	616789			0.00- 30.00	32.44
3.301	3.301 (0.411)	66	538010			0.00- 30.00	28.30
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	7045465	100.000	87.463	70.00- 130.00	100.00
3.633	3.633 (0.452)	103	4643169			33.56- 93.56	65.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.965	3.965 (0.494)	45	1503895	100.000	91.863	70.00- 130.00	100.00
3.965	3.965 (0.494)	43	327614			0.00- 30.00	21.78
3.965	3.965 (0.494)	46	646542			0.00- 30.00	42.99
24 Freon 113					CAS #: 76-13-1		
4.435	4.435 (0.552)	151	4252393	100.000	86.310	70.00- 130.00	100.00
4.435	4.435 (0.552)	153	2707903			31.63- 91.63	63.68
4.435	4.435 (0.552)	101	5404250			95.13- 155.13	127.09
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	5308097	100.000	88.582	70.00- 130.00	100.00
4.490	4.490 (0.559)	96	2550740			17.76- 77.76	48.05
4.490	4.490 (0.559)	98	1589651			0.00- 59.91	29.95
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	1683620	100.000	88.298	70.00- 130.00	100.00
4.628	4.628 (0.576)	43	6281959			0.00- 30.00	373.12
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	6762868	100.000	95.694	70.00- 130.00	100.00
4.822	4.822 (0.601)	43	1450834			0.00- 30.00	21.45
4.822	4.822 (0.601)	59	232440			0.00- 30.00	3.44
29 Carbon Disulfide					CAS #: 75-15-0		
4.822	4.822 (0.601)	76	6752586	100.000	88.194	70.00- 130.00	100.00
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	4659266	100.000	88.313	70.00- 130.00	100.00
5.375	5.375 (0.669)	84	2179450			17.49- 77.49	46.78
5.375	5.375 (0.669)	51	1376426			0.00- 30.00	29.54
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	3733226	100.000	85.247	70.00- 130.00	100.00
5.734	5.734 (0.714)	57	1188597			1.86- 61.86	31.84
5.734	5.734 (0.714)	41	1265058			0.00- 30.00	33.89
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.762	5.762 (0.718)	96	2537625	100.000	86.626	70.00- 130.00	100.00
5.762	5.762 (0.718)	61	4586944			152.17- 212.17	180.76
5.762	5.762 (0.718)	98	1614301			0.00- 30.00	63.61
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	6093615	100.000	90.728	70.00- 130.00	100.00
6.149	6.149 (0.766)	43	4350288			0.00- 30.00	71.39
6.149	6.149 (0.766)	86	819797			0.00- 30.00	13.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	649977	100.000	99.212	70.00- 130.00	100.00
6.619	6.619 (0.824)	43	9941324			0.00- 30.00	1529.49
6.647	6.647 (0.828)	42	849872			0.00- 30.00	130.75
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	5402143	100.000	88.791	70.00- 130.00	100.00
6.564	6.564 (0.817)	65	1549633			0.00- 59.89	28.69
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	1287194	100.000	88.739	70.00- 130.00	100.00
7.642	7.642 (0.952)	43	8428342			604.25- 664.25	654.78
7.642	7.642 (0.952)	57	567933			0.00- 30.00	44.12
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.587	7.587 (0.945)	61	4480312	100.000	87.773	70.00- 130.00	100.00
7.587	7.587 (0.945)	96	2663297			28.92- 88.92	59.44
7.587	7.587 (0.945)	98	1671354			7.81- 67.81	37.30
57 Tetrahydrofuran					CAS #: 109-99-9		
8.002	8.002 (0.997)	42	4923739	100.000	89.862	70.00- 130.00	100.00
8.029	8.029 (1.000)	71	1144301			0.00- 53.41	23.24
8.029	8.029 (1.000)	72	1220060			0.00- 30.00	24.78
59 Chloroform					CAS #: 67-66-3		
8.168	8.168 (1.017)	83	4424274	100.000	91.443	70.00- 130.00	100.00
8.168	8.168 (1.017)	85	2845694			34.04- 94.04	64.32
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	4952589	100.000	88.412	70.00- 130.00	100.00
8.416	8.416 (1.048)	99	3161342			35.43- 95.43	63.83
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	3685559	100.000	90.521	70.00- 130.00	100.00
8.416	8.416 (1.048)	56	6226752			138.19- 198.19	168.95
8.389	8.389 (1.045)	41	3561310			65.76- 125.76	96.63
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	5064459	100.000	88.293	70.00- 130.00	100.00
8.665	8.665 (1.079)	117	5313585			73.47- 133.47	104.92
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	7155449	100.000	77.107	70.00- 130.00	100.00
9.080	9.080 (0.916)	77	1680968			0.00- 30.00	23.49
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	3815605	100.000	89.524	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 1,2-Dichloroethane (continued)							
9.246	9.246 (0.933)	64	1131170			0.00- 30.00	29.65
75 Heptane					CAS #: 142-82-5		
9.495	9.495 (0.958)	100	995246	100.000	88.595	70.00- 130.00	100.00
9.495	9.495 (0.958)	43	7628674			0.00- 30.00	766.51
9.495	9.495 (0.958)	71	2721594			0.00- 30.00	273.46
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	2912181	100.000	89.953	70.00- 130.00	100.00
10.324	10.324 (1.042)	130	3094927			77.61- 137.61	106.28
10.324	10.324 (1.042)	97	1828279			34.18- 94.18	62.78
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	2917529	100.000	87.876	70.00- 130.00	100.00
10.822	10.822 (1.092)	62	2153932			45.46- 105.46	73.83
10.822	10.822 (1.092)	41	2214562			47.35- 107.35	75.91
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	1708317	100.000	87.741	70.00- 130.00	100.00
11.043	11.043 (1.114)	58	1649030			64.35- 124.35	96.53
11.043	11.043 (1.114)	57	532650			0.00- 30.00	31.18
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	4289988	100.000	92.543	70.00- 130.00	100.00
11.375	11.375 (1.148)	85	2766032			33.09- 93.09	64.48
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	3622338	100.000	95.118	70.00- 130.00	100.00
12.287	12.287 (1.240)	77	1144371			0.40- 60.40	31.59
12.287	12.287 (1.240)	39	2911725			49.47- 109.47	80.38
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	3004379	100.000	99.721	70.00- 130.00	100.00
12.591	12.591 (1.271)	43	8888805			0.00- 30.00	295.86
12.591	12.591 (1.271)	85	920501			0.00- 30.00	30.64
99 Toluene					CAS #: 108-88-3		
12.813	12.813 (1.293)	91	7958863	100.000	89.733	70.00- 130.00	100.00
12.813	12.813 (1.293)	92	4850078			30.22- 90.22	60.94
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	3454126	100.000	93.808	70.00- 130.00	100.00
13.338	13.338 (0.889)	77	1089319			1.30- 61.30	31.54
13.338	13.338 (0.889)	39	2736911			46.09- 106.09	79.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.615	13.615 (0.908)	97	2609684	100.000	89.690	70.00- 130.00	100.00
13.615	13.615 (0.908)	99	1610277			30.53- 90.53	61.70
13.615	13.615 (0.908)	83	2100420			48.18- 108.18	80.49
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	3507702	100.000	87.690	70.00- 130.00	100.00
13.697	13.697 (0.913)	129	2567140			44.91- 104.91	73.19
13.697	13.697 (0.913)	131	2526838			43.72- 103.72	72.04
103 2-Hexanone					CAS #: 591-78-6		
14.002	14.002 (0.934)	58	3822805	100.000	102.36	70.00- 130.00	100.00
14.002	14.002 (0.934)	43	8363548			186.04- 246.04	218.78
14.029	14.029 (0.935)	100	649390			0.00- 30.00	16.99
105 Dibromochloromethane					CAS #: 124-48-1		
14.168	14.168 (0.945)	129	4171139	100.000	95.776	70.00- 130.00	100.00
14.168	14.168 (0.945)	127	3233991			0.00- 30.00	77.53
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	3894979	100.000	91.265	70.00- 130.00	100.00
14.333	14.333 (0.956)	109	3604999			65.83- 125.83	92.56
109 Chlorobenzene					CAS #: 108-90-7		
15.025	15.025 (1.002)	112	6212877	100.000	89.077	70.00- 130.00	100.00
15.025	15.025 (1.002)	114	1983835			0.94- 60.94	31.93
15.025	15.025 (1.002)	77	3485754			24.15- 84.15	56.11
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	3428092	100.000	91.793	70.00- 130.00	100.00
15.163	15.163 (1.011)	91	10575849			0.00- 30.00	308.51
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	8363175	200.000	165.41	70.00- 130.00	100.00
15.329	15.329 (1.022)	91	16155698			0.00- 30.00	193.18
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	3926788	100.000	89.571	70.00- 130.00	100.00
15.854	15.854 (1.057)	91	8037886			169.60- 229.60	204.69
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	5917513	100.000	95.847	70.00- 130.00	100.00
15.909	15.909 (1.061)	78	2821127			17.14- 77.14	47.67
118 Bromoform					CAS #: 75-25-2		
16.158	16.158 (1.077)	173	3724639	100.000	103.30	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
118 Bromoform (continued)							
16.158	16.158 (1.077)	171	1929008			21.36- 81.36	51.79
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	5079401	100.000	88.037	70.00- 130.00	100.00
16.794	16.794 (1.120)	85	3231303			34.48- 94.48	63.62
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	12326216	100.000	92.274	70.00- 130.00	100.00
16.960	16.960 (1.131)	120	3618144			0.25- 60.25	29.35
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	9976068	100.000	90.398	70.00- 130.00	100.00
17.043	17.043 (1.136)	120	4850768			0.00- 30.00	48.62
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	9013078	100.000	88.262	70.00- 130.00	100.00
17.458	17.458 (1.164)	120	4362672			17.91- 77.91	48.40
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	5950969	100.000	93.158	70.00- 130.00	100.00
17.734	17.734 (1.183)	148	3679422			0.00- 30.00	61.83
17.734	17.734 (1.183)	111	2566490			0.00- 30.00	43.13
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	6442933	100.000	82.087	70.00- 130.00	100.00
17.845	17.845 (1.190)	148	4059594			0.00- 30.00	63.01
17.845	17.845 (1.190)	111	2383989			0.00- 30.00	37.00
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	8780230	100.000	104.54	70.00- 130.00	100.00
17.983	17.983 (1.199)	126	1975172			0.00- 30.00	22.50
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.177	18.177 (1.212)	146	5745131	100.000	92.170	70.00- 130.00	100.00
18.177	18.177 (1.212)	148	3554062			33.77- 93.77	61.86
18.177	18.177 (1.212)	111	2555621			15.48- 75.48	44.48
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	5145965	100.000	95.309	70.00- 130.00	100.00
19.476	19.476 (1.299)	182	4947454			66.86- 126.86	96.14
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	3154648	100.000	81.202	70.00- 130.00	100.00
19.559	19.559 (1.304)	223	2049082			35.20- 95.20	64.95

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	13865646	100.000	82.518	70.00- 130.00	100.00
16.324	16.324 (1.088)	120	3666959			0.00- 30.00	26.45
16.324	16.324 (1.088)	51	2087849			0.00- 30.00	15.06
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	14670049	100.000	90.403	70.00- 130.00	100.00
16.849	16.849 (1.124)	120	3545294			0.00- 30.00	24.17
16.822	16.822 (1.122)	105	554157			0.00- 30.00	3.78
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	1297103	100.000	90.218	70.00- 130.00	100.00
5.126	5.126 (0.638)	41	5625951			0.00- 30.00	433.73
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.108	9.108 (1.134)	57	20282457	100.000	89.378	70.00- 130.00	100.00
9.108	9.108 (1.134)	56	6854438			0.00- 30.00	33.79
9.108	9.108 (1.134)	41	5415370			0.00- 30.00	26.70
157 Naphthalene					CAS #: 91-20-3		
19.670	19.670 (1.312)	128	9394158	50.0000	44.442	70.00- 130.00	100.00
19.670	19.670 (1.312)	127	1209155			0.00- 30.00	12.87
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	826692	100.000	86.155	70.00- 130.00	100.00
2.610	2.610 (0.325)	43	6340095			0.00- 30.00	766.92
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	5597771	100.000	86.204	70.00- 130.00	100.00
3.329	3.329 (0.415)	57	3420775			0.00- 30.00	61.11
3.329	3.329 (0.415)	72	329678			0.00- 30.00	5.89
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	4601513	100.000	91.318	70.00- 130.00	100.00
10.573	10.573 (1.317)	98	2312521			0.00- 30.00	50.26
10.573	10.573 (1.317)	55	5544534			0.00- 30.00	120.49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112117.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-21nova.b/t14qn22a.m
Misc Info: 200ppbv-100ppbv

Calibration Date: 21-NOV-2006
Calibration Time: 23:55
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	489478	293687	685269	470411	-3.90
79 1,4-Difluorobenze	1959876	1175926	2743826	1954394	-0.28
108 Chlorobenzene-d5	1558376	935026	2181726	1530170	-1.81

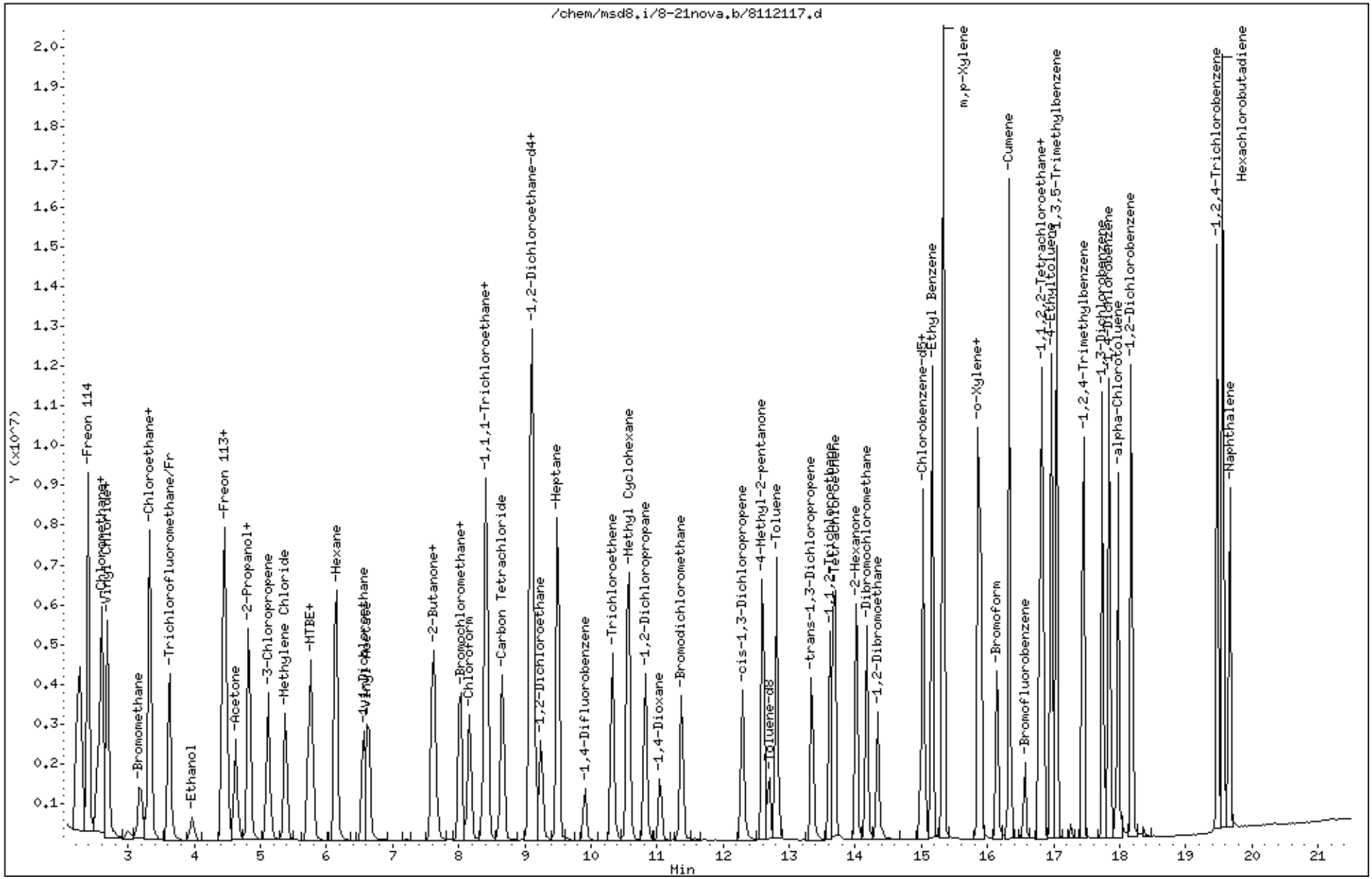
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd8.i/8-21nova.b/8112117.d
Date : 22-NOV-2006 00:24
Client ID: Level 6
Sample Info: 100mL #1408-220

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-15dec.b/8121507.d
Lab Smp Id: ICAL Client Smp ID: ICAL Level 7
Inj Date : 15-DEC-2006 13:03
Operator : EA Inst ID: msd8.i
Smp Info : 200ml #1408-160
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd8.i/8-15dec.b/t14qn22d.m
Meth Date : 18-Dec-2006 10:50 ejakob Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4c.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
==	====== ========	====	========	=======	=======	==========		=====
* 58 Bromochloromethane					CAS #: 74-97-5			
8.029	8.029 (1.000)	130	352715	25.0000		70.00- 130.00		100.00
8.029	8.029 (1.000)	128	258875			50.25- 110.25		73.39
8.029	8.029 (1.000)	49	814977			215.94- 275.94		231.06
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.909	9.909 (1.000)	114	1301458	25.0000		70.00- 130.00		100.00
9.909	9.909 (1.000)	88	204869			0.00- 45.68		15.74
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.997	14.997 (1.000)	117	947291	25.0000		70.00- 130.00		100.00
14.997	14.997 (1.000)	82	538243			0.00- 30.00		56.82
52 tert-Butyl-Alcohol					CAS #: 75-65-0			
5.513	5.513 (0.687)	59	5411188	200.000	128.22	70.00- 130.00		100.00
5.513	5.513 (0.687)	41	1377288			0.00- 30.00		25.45
5.513	5.513 (0.687)	57	582447			0.00- 30.00		10.76
61 Isopropyl ether					CAS #: 108-20-3			
6.564	6.564 (0.817)	45	21554887	200.000	187.86	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
61 Isopropyl ether (continued)							
6.564	6.564 (0.817)	87	3358540			0.00- 30.00	15.58
6.564	6.564 (0.817)	59	1918003			0.00- 30.00	8.90
67 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.200	7.200 (0.897)	59	10360166	200.000	181.26	70.00- 130.00	100.00
7.200	7.200 (0.897)	87	3261610			0.00- 30.00	31.48
7.200	7.200 (0.897)	41	2246997			0.00- 30.00	21.69
73 Ethyl Acetate					CAS #: 141-78-6		
7.697	7.697 (0.959)	70	808238	200.000	186.73	70.00- 130.00	100.00
7.697	7.697 (0.959)	43	13535690			0.00- 30.00	1674.72
7.697	7.697 (0.959)	61	1432480			0.00- 30.00	177.23
84 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.273	9.273 (1.155)	73	7526854	200.000	171.67	70.00- 130.00	100.00
9.273	9.273 (1.155)	87	1884795			0.00- 30.00	25.04
9.273	9.273 (1.155)	55	2986449			0.00- 30.00	39.68

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8121507.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msd8.i/8-15dec.b/t14qn22d.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 15-DEC-2006
Calibration Time: 12:30
Client Smp ID: ICAL Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	336295	201777	470813	352715	4.88
79 1,4-Difluorobenze	1279467	767680	1791254	1301458	1.72
108 Chlorobenzene-d5	894786	536872	1252700	947291	5.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd8.i/8-15dec.b/8121507.d

Date : 15-DEC-2006 13:03

Client ID: ICAL Level 7

Sample Info: 200ml #1408-160

Column phase: RTx-624

Instrument: msd8.i

Operator: EA

Column diameter: 0.53

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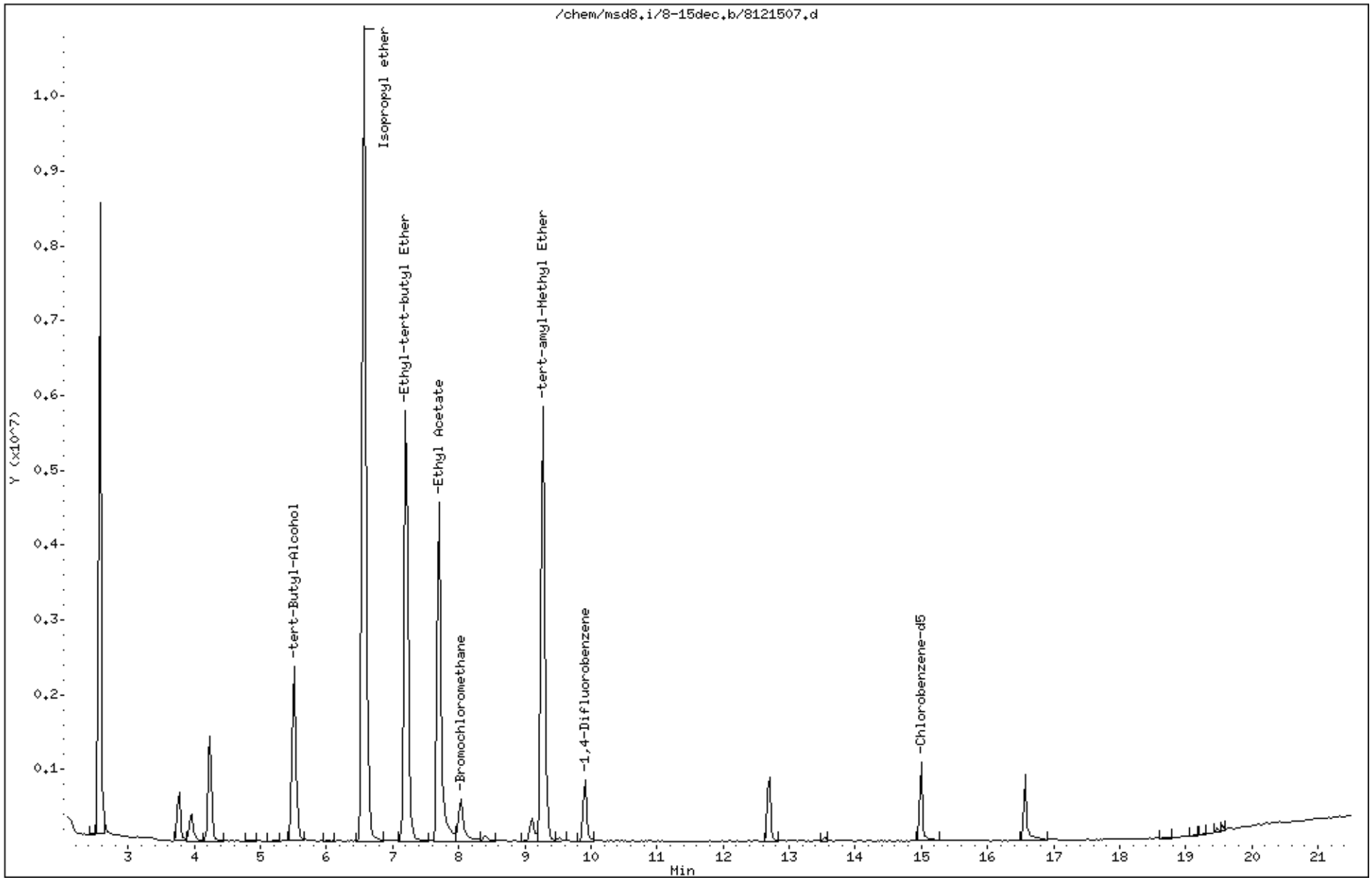


Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-14dec.b/8121407.d
Lab Smp Id: ICAL Client Smp ID: LEVEL 7
Inj Date : 14-DEC-2006 12:59
Operator : EA Inst ID: msd8.i
Smp Info : 200ml #1413-406
Misc Info : 100ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-14dec.b/t14qn22c.m
Meth Date : 15-Dec-2006 13:25 ejakob Quant Type: ISTD
Cal Date : 14-DEC-2006 12:59 Cal File: 8121407.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp3c.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
==	====== ========	====	========	=======	=======	==========	=====
* 58 Bromochloromethane						CAS #: 74-97-5	
8.029	8.029 (1.000)	130	365218	25.0000		70.00- 130.00	100.00
8.029	8.029 (1.000)	128	282053			42.23- 102.23	77.23
8.029	8.029 (1.000)	49	856835			195.18- 255.18	234.61
* 79 1,4-Difluorobenzene						CAS #: 540-36-3	
9.909	9.909 (1.000)	114	1418417	25.0000		70.00- 130.00	100.00
9.909	9.909 (1.000)	88	230937			0.00- 45.02	16.28
* 108 Chlorobenzene-d5						CAS #: 3114-55-4	
14.997	14.997 (1.000)	117	1017289	25.0000		70.00- 130.00	100.00
14.997	14.997 (1.000)	82	586555			0.00- 30.00	57.66
37 Vinyl Bromide						CAS #: 593-60-2	
3.578	3.578 (0.446)	106	2702299	200.000	212.38	70.00- 130.00	100.00
3.578	3.578 (0.446)	108	2538111			0.00- 30.00	93.92
51 Acetonitrile						CAS #: 75-05-8	
5.237	5.237 (0.652)	40	2476830	200.000	163.41	70.00- 130.00	100.00
5.237	5.237 (0.652)	41	9059351			0.00- 30.00	365.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Acetonitrile (continued)							
5.237	5.237 (0.652)	38	583493			0.00- 30.00	23.56
55 Acrylonitrile					CAS #: 107-13-1		
5.900	5.900 (0.735)	53	4290572	200.000	229.89	70.00- 130.00	100.00(A)
5.900	5.900 (0.735)	52	3611215			0.00- 30.00	84.17

QC Flag Legend

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

Report Date: 15-Dec-2006 13:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8121407.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msd8.i/8-14dec.b/t14qn22c.m
Misc Info: 100ppbv-50ppbv

Calibration Date: 14-DEC-2006
Calibration Time: 12:26
Client Smp ID: LEVEL 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	373029	223817	522241	365218	-2.09
79 1,4-Difluorobenze	1432726	859636	2005816	1418417	-1.00
108 Chlorobenzene-d5	1007047	604228	1409866	1017289	1.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

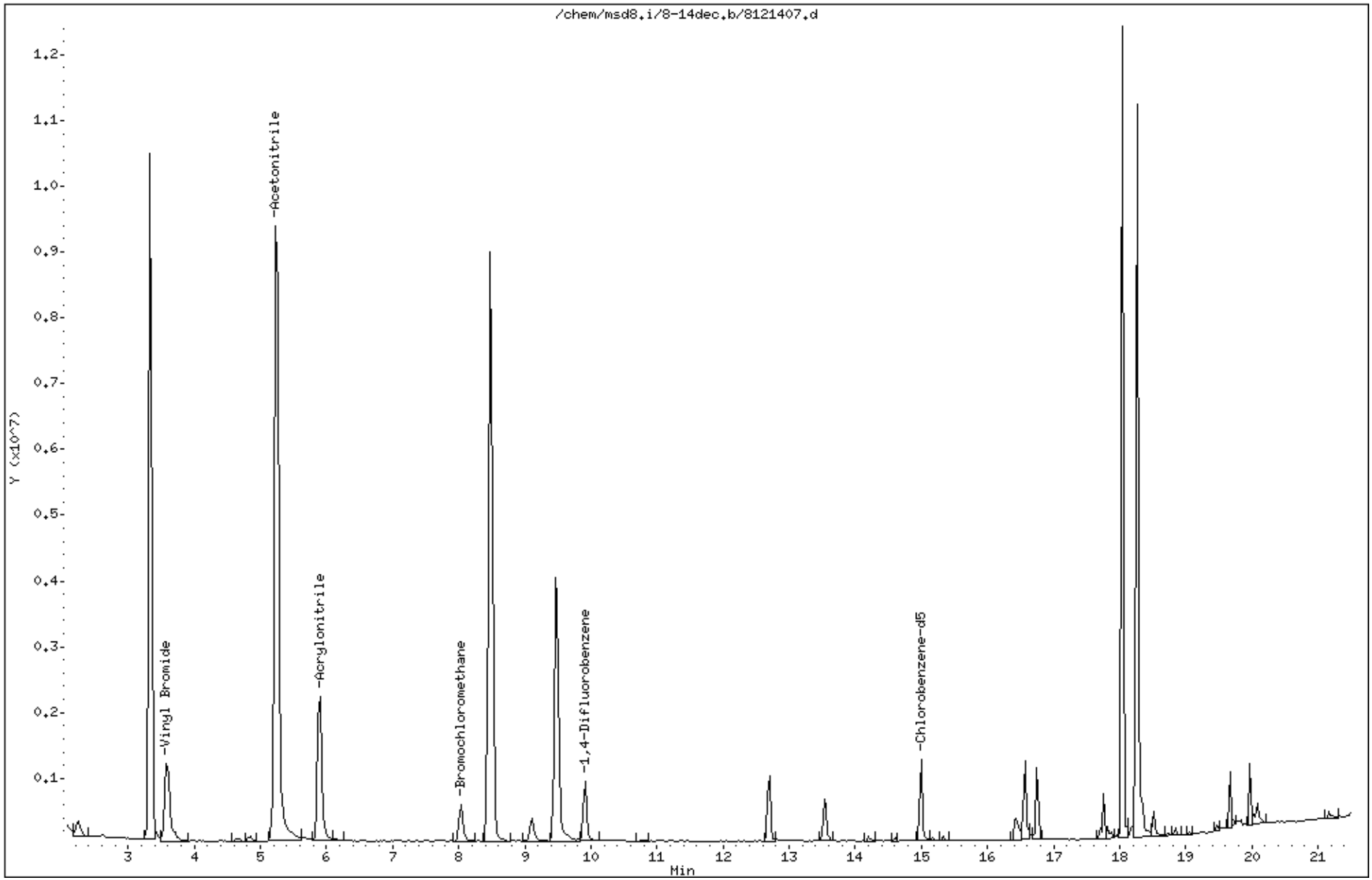
0176

Data File: /chem/msd8.i/8-14dec.b/8121407.d
Date : 14-DEC-2006 12:59
Client ID: LEVEL 7
Sample Info: 200ml #1413-406

Column phase: RTx-624

Instrument: msd8.i

Operator: EA
Column diameter: 0.53



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 7
Inj Date : 27-NOV-2006 15:09
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #1408-222
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd8.i/8-27nov.b/t14qn22b.m
Meth Date : 27-Nov-2006 16:57 jgray Quant Type: ISTD
Cal Date : 27-NOV-2006 15:09 Cal File: 8112709.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp23b.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	460276	25.0000		70.00- 130.00	100.00
8.029	8.029 (1.000)	128	350416			49.51- 109.51	76.13
8.029	8.029 (1.000)	49	1041438			207.63- 267.63	226.26
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1811750	25.0000		70.00- 130.00	100.00
9.909	9.909 (1.000)	88	284510			0.00- 45.50	15.70
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	1387964	25.0000		70.00- 130.00	100.00
14.997	14.997 (1.000)	82	782019			0.00- 30.00	56.34
61 Isopropyl ether					CAS #: 108-20-3		
6.564	6.564 (0.817)	45	24769025	200.000	180.01	70.00- 130.00	100.00
6.564	6.564 (0.817)	87	4203008			0.00- 30.00	16.97
6.564	6.564 (0.817)	59	2281906			0.00- 30.00	9.21
74 2,2-Dichloropropane					CAS #: 594-20-7		
7.531	7.531 (0.938)	77	5621073	200.000	194.56	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
74 2,2-Dichloropropane (continued)							
7.531	7.531 (0.938)	79	1801692			0.82- 60.82	32.05
7.531	7.531 (0.938)	97	1139626			0.00- 30.00	20.27
98 Dibromomethane					CAS #: 74-95-3		
11.071	11.071 (1.117)	174	4286036	200.000	177.14	70.00- 130.00	100.00
11.071	11.071 (1.117)	93	4175970			0.00- 30.00	97.43
11.043	11.043 (1.114)	95	3477275			0.00- 30.00	81.13
110 1,3-Dichloropropane					CAS #: 142-28-9		
13.891	13.891 (1.402)	76	6384724	200.000	190.99	70.00- 130.00	100.00
13.891	13.891 (1.402)	41	6810379			72.96- 132.96	106.67
13.891	13.891 (1.402)	78	2059576			0.00- 30.00	32.26
116 Nonane					CAS #: 111-84-2		
15.329	15.329 (1.022)	43	17218857	200.000	181.11	70.00- 130.00	100.00
15.329	15.329 (1.022)	57	14262527			0.00- 30.00	82.83
15.329	15.329 (1.022)	85	3674688			0.00- 30.00	21.34
117 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.163	15.163 (1.011)	131	5455966	200.000	190.66	70.00- 130.00	100.00
15.163	15.163 (1.011)	117	3644006			0.00- 30.00	66.79
15.163	15.163 (1.011)	95	2051341			0.00- 30.00	37.60
130 Bromobenzene					CAS #: 108-86-1		
16.739	16.739 (1.116)	156	5913785	200.000	175.73	70.00- 130.00	100.00
16.711	16.711 (1.114)	77	9602121			119.27- 179.27	162.37
16.739	16.739 (1.116)	158	5642753			0.00- 30.00	95.42
133 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.849	16.849 (1.124)	110	3047533	200.000	176.29	70.00- 130.00	100.00
16.822	16.822 (1.122)	61	2575524			0.00- 30.00	84.51
16.849	16.849 (1.124)	112	1926371			0.00- 30.00	63.21
134 2-Chlorotoluene					CAS #: 95-49-8		
16.960	16.960 (1.131)	126	5062269	200.000	177.05	70.00- 130.00	100.00
16.960	16.960 (1.131)	91	15186003			268.73- 328.73	299.98
16.932	16.932 (1.129)	65	1474328			0.00- 30.00	29.12
137 4-Chlorotoluene					CAS #: 106-43-4		
17.098	17.098 (1.140)	126	4810680	200.000	185.38	70.00- 130.00	100.00
17.071	17.071 (1.138)	91	14870438			275.02- 335.02	309.11
17.071	17.071 (1.138)	63	2238940			0.00- 30.00	46.54
143 tert-Butylbenzene					CAS #: 98-06-6		
17.375	17.375 (1.159)	119	23796569	200.000	185.60	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
143 tert-Butylbenzene (continued)							
17.375	17.375 (1.159)	134	5159876			0.00- 52.04	21.68
17.375	17.375 (1.159)	91	12133625			0.00- 30.00	50.99
145 sec-Butylbenzene					CAS #: 135-98-8		
17.596	17.596 (1.173)	105	24702486	200.000	170.43	70.00- 130.00	100.00
17.624	17.624 (1.175)	134	5175656			0.00- 49.98	20.95
17.596	17.596 (1.173)	91	3919923			0.00- 30.00	15.87
148 p-Cymene					CAS #: 99-87-6		
17.762	17.762 (1.184)	134	6562267	200.000	185.84	70.00- 130.00	100.00
17.762	17.762 (1.184)	119	17429452			342.17- 402.17	265.60
17.762	17.762 (1.184)	91	4994358			0.00- 30.00	76.11
150 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.872	17.872 (1.192)	120	8076738	200.000	180.44	70.00- 130.00	100.00
17.872	17.872 (1.192)	105	16785127			194.02- 254.02	207.82
17.872	17.872 (1.192)	77	1860160			0.00- 30.00	23.03
151 Butylbenzene					CAS #: 104-51-8		
18.149	18.149 (1.210)	134	5006900	200.000	185.96	70.00- 130.00	100.00
18.121	18.121 (1.208)	91	17602859			316.57- 376.57	351.57
18.121	18.121 (1.208)	92	9807188			0.00- 30.00	195.87
154 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.868	18.868 (1.258)	157	6998325	200.000	211.50	70.00- 130.00	100.00(A)
18.868	18.868 (1.258)	75	5413635			48.57- 108.57	77.36
18.868	18.868 (1.258)	155	5438467			0.00- 30.00	77.71
188 1,1-Dichloropropene					CAS #: 563-58-6		
8.720	8.720 (1.086)	110	2410511	200.000	175.29	70.00- 130.00	100.00
8.720	8.720 (1.086)	75	6503292			0.00- 30.00	269.79
122 Cyclohexanone					CAS #: 108-94-1		
16.490	16.490 (1.100)	55	6985801	200.000	208.01	70.00- 130.00	100.00(A)
16.490	16.490 (1.100)	98	2090164			0.00- 30.00	29.92
16.490	16.490 (1.100)	42	5162199			0.00- 30.00	73.90
1 Freon 152a					CAS #: 75-37-6		
2.250	2.250 (0.280)	65	3706806	200.000	177.00	70.00- 130.00	100.00
2.223	2.223 (0.277)	51	10491989			0.00- 30.00	283.05
19 Freon123a					CAS #: 354-23-4		
4.186	4.186 (0.521)	67	2168145	200.000	166.71	70.00- 130.00	100.00
4.186	4.186 (0.521)	117	1557336			0.00- 30.00	71.83

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
22 Freon123					CAS #: 306-83-2		
4.296	4.296 (0.535)	83	5046452	200.000	167.55	70.00- 130.00	100.00
4.296	4.296 (0.535)	133	1124644			0.00- 30.00	22.29
4.296	4.296 (0.535)	85	3445110			0.00- 30.00	68.27
191 Pentachloroethane					CAS #: 76-01-7		
17.430	17.430 (1.162)	167	5634436	200.000	192.57	70.00- 130.00	100.00
17.430	17.430 (1.162)	117	5902937			0.00- 30.00	104.77

QC Flag Legend

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

Report Date: 27-Nov-2006 16:57

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: JG
Method File: /chem/msd8.i/8-27nov.b/t14qn22b.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 27-NOV-2006
Calibration Time: 14:35
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	418922	251353	586491	460276	9.87
79 1,4-Difluorobenze	1735257	1041154	2429360	1811750	4.41
108 Chlorobenzene-d5	1289485	773691	1805279	1387964	7.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

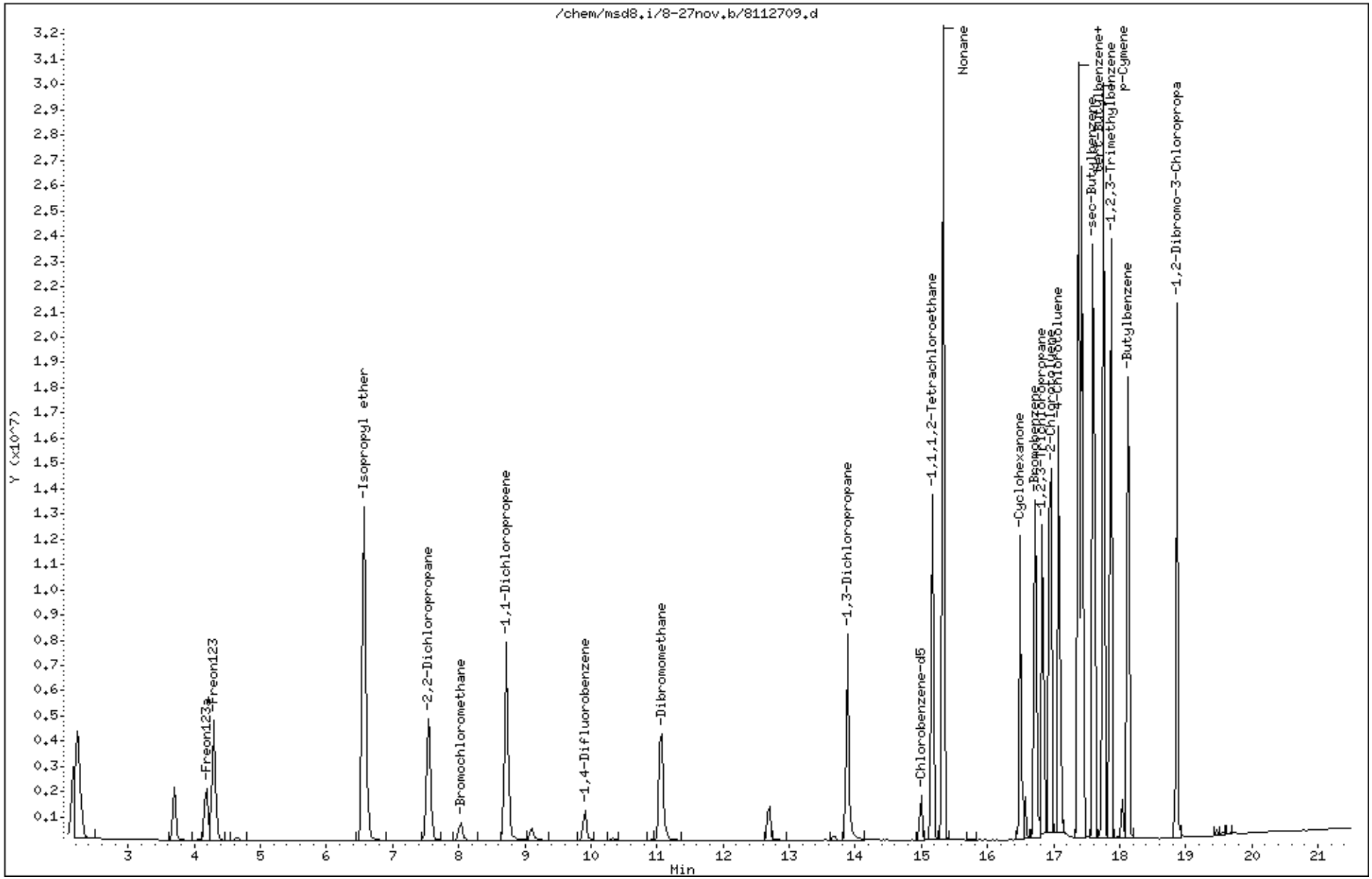
0182

Data File: /chem/msd8.i/8-27nov.b/8112709.d
Date : 27-NOV-2006 15:09
Client ID: Level 7
Sample Info: 200mL #1408-222

Column phase: RTx-624

Instrument: msd8.i

Operator: JG
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21nova.b/8112118.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 22-NOV-2006 00:57
Operator : kr Inst ID: msd8.i
Smp Info : 200mL #1408-220
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd8.i/8-21nova.b/t14qn22a.m
Meth Date : 22-Nov-2006 13:00 jgray Quant Type: ISTD
Cal Date : 22-NOV-2006 00:57 Cal File: 8112118.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+Na+ENSR.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
*	58 Bromochloromethane					CAS #: 74-97-5		
	8.029	8.029 (1.000)	130	491489	25.0000		70.00- 130.00	100.00
	8.029	8.029 (1.000)	128	381821			44.89- 104.89	77.69
	8.029	8.029 (1.000)	49	1141800			193.81- 253.81	232.31
*	79 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.909	9.909 (1.000)	114	2015220	25.0000		70.00- 130.00	100.00
	9.909	9.909 (1.000)	88	320259			0.00- 45.62	15.89
*	108 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.997	14.997 (1.000)	117	1611633	25.0000		70.00- 130.00	100.00
	14.997	14.997 (1.000)	82	849494			0.00- 30.00	52.71
$	71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	9.108	9.108 (1.134)	65	822626	25.0000	26.545	70.00- 130.00	100.00
	9.108	9.108 (1.134)	67	584075			0.00- 30.00	71.00
$	97 Toluene-d8					CAS #: 2037-26-5		
	12.702	12.702 (1.282)	98	1922857	25.0000	25.768	70.00- 130.00	100.00
	12.702	12.702 (1.282)	70	217051			0.00- 30.00	11.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	1391064			0.00- 30.00	72.34
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	940820	25.0000	26.473	70.00- 130.00	100.00
16.573	16.573 (1.105)	95	1188330			99.05- 159.05	126.31
16.573	16.573 (1.105)	176	868181			66.25- 126.25	92.28
6 Propylene					CAS #: 115-07-1		
2.223	2.223 (0.277)	41	7880285	200.000	178.10	70.00- 130.00	100.00
2.223	2.223 (0.277)	42	5167575			0.00- 30.00	65.58
2.223	2.223 (0.277)	39	5574954			0.00- 30.00	70.75
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.278 (0.284)	85	15764342	200.000	176.66	70.00- 130.00	100.00
2.278	2.278 (0.284)	87	5051656			0.00- 30.00	32.04
4 Freon 114					CAS #: 76-14-2		
2.416	2.416 (0.301)	135	10488949	200.000	169.86	70.00- 130.00	100.00
2.416	2.416 (0.301)	137	3297017			1.70- 61.70	31.43
5 Chloromethane					CAS #: 74-87-3		
2.555	2.555 (0.318)	50	8263193	200.000	170.58	70.00- 130.00	100.00
2.555	2.555 (0.318)	52	2457516			0.00- 30.00	29.74
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.693 (0.335)	62	7129159	200.000	174.74	70.00- 130.00	100.00
2.693	2.693 (0.335)	64	2106720			0.00- 30.00	29.55
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	5754301	200.000	183.65	70.00- 130.00	100.00
2.693	2.693 (0.335)	39	6876443			0.00- 30.00	119.50
10 Bromomethane					CAS #: 74-83-9		
3.163	3.163 (0.394)	94	4534339	200.000	171.94	70.00- 130.00	100.00
3.163	3.163 (0.394)	96	4307941			64.11- 124.11	95.01
12 Chloroethane					CAS #: 75-00-3		
3.329	3.329 (0.415)	64	3845911	200.000	187.30	70.00- 130.00	100.00
3.329	3.329 (0.415)	49	1298580			0.00- 30.00	33.77
3.329	3.329 (0.415)	66	1148234			0.00- 30.00	29.86
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	14370437	200.000	175.89	70.00- 130.00	100.00
3.633	3.633 (0.452)	103	9283686			33.56- 93.56	64.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.992	3.992 (0.497)	45	3184408	200.000	188.78	70.00- 130.00	100.00
3.992	3.992 (0.497)	43	680831			0.00- 30.00	21.38
3.992	3.992 (0.497)	46	1380446			0.00- 30.00	43.35
24 Freon 113					CAS #: 76-13-1		
4.435	4.435 (0.552)	151	8438904	200.000	170.07	70.00- 130.00	100.00
4.435	4.435 (0.552)	153	5381362			31.63- 91.63	63.77
4.435	4.435 (0.552)	101	10793366			95.13- 155.13	127.90
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	10793629	200.000	177.29	70.00- 130.00	100.00
4.490	4.490 (0.559)	96	5117120			17.76- 77.76	47.41
4.490	4.490 (0.559)	98	3259336			0.00- 59.91	30.20
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	3546857	200.000	182.04	70.00- 130.00	100.00
4.628	4.628 (0.576)	43	13047621			0.00- 30.00	367.86
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	13985263	200.000	191.43	70.00- 130.00	100.00
4.822	4.822 (0.601)	43	2720627			0.00- 30.00	19.45
4.822	4.822 (0.601)	59	452134			0.00- 30.00	3.23
29 Carbon Disulfide					CAS #: 75-15-0		
4.822	4.822 (0.601)	76	13702154	200.000	176.35	70.00- 130.00	100.00
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	9479633	200.000	176.93	70.00- 130.00	100.00
5.375	5.375 (0.669)	84	4416939			17.49- 77.49	46.59
5.375	5.375 (0.669)	51	2798862			0.00- 30.00	29.53
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	6305819	200.000	146.95	70.00- 130.00	100.00
5.734	5.734 (0.714)	57	2026799			1.86- 61.86	32.14
5.734	5.734 (0.714)	41	2071678			0.00- 30.00	32.85
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.762	5.762 (0.718)	96	5129812	200.000	173.22	70.00- 130.00	100.00
5.762	5.762 (0.718)	61	9345342			152.17- 212.17	182.18
5.762	5.762 (0.718)	98	3170924			0.00- 30.00	61.81
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	12336063	200.000	180.16	70.00- 130.00	100.00
6.149	6.149 (0.766)	43	8776728			0.00- 30.00	71.15
6.149	6.149 (0.766)	86	1650823			0.00- 30.00	13.38

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	1361017	200.000	199.07	70.00- 130.00	100.00
6.619	6.619 (0.824)	43	21298694			0.00- 30.00	1564.91
6.619	6.619 (0.824)	42	1770998			0.00- 30.00	130.12
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	10810488	200.000	175.31	70.00- 130.00	100.00
6.564	6.564 (0.817)	65	3199027			0.00- 59.89	29.59
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	2625032	200.000	177.98	70.00- 130.00	100.00
7.642	7.642 (0.952)	43	17380788			604.25- 664.25	662.12
7.642	7.642 (0.952)	57	1185279			0.00- 30.00	45.15
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.587	7.587 (0.945)	61	8890556	200.000	172.44	70.00- 130.00	100.00
7.587	7.587 (0.945)	96	5238999			28.92- 88.92	58.93
7.587	7.587 (0.945)	98	3380085			7.81- 67.81	38.02
57 Tetrahydrofuran					CAS #: 109-99-9		
8.002	8.002 (0.997)	42	10032256	200.000	179.69	70.00- 130.00	100.00
8.002	8.002 (0.997)	71	2350789			0.00- 53.41	23.43
8.029	8.029 (1.000)	72	2513859			0.00- 30.00	25.06
59 Chloroform					CAS #: 67-66-3		
8.168	8.168 (1.017)	83	8854800	200.000	179.63	70.00- 130.00	100.00
8.168	8.168 (1.017)	85	5751364			34.04- 94.04	64.95
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	9996241	200.000	175.93	70.00- 130.00	100.00
8.416	8.416 (1.048)	99	6436138			35.43- 95.43	64.39
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	7259382	200.000	175.81	70.00- 130.00	100.00
8.389	8.389 (1.045)	56	12684097			138.19- 198.19	174.73
8.389	8.389 (1.045)	41	7224925			65.76- 125.76	99.53
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	10324900	200.000	177.19	70.00- 130.00	100.00
8.665	8.665 (1.079)	117	10740397			73.47- 133.47	104.02
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	14512031	200.000	158.03	70.00- 130.00	100.00
9.080	9.080 (0.916)	77	3349024			0.00- 30.00	23.08
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	7598923	200.000	177.72	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 1,2-Dichloroethane (continued)							
9.246	9.246 (0.933)	64	2275246			0.00- 30.00	29.94
75 Heptane					CAS #: 142-82-5		
9.495	9.495 (0.958)	100	1926835	200.000	172.14	70.00- 130.00	100.00
9.495	9.495 (0.958)	43	15487370			0.00- 30.00	803.77
9.495	9.495 (0.958)	71	5466988			0.00- 30.00	283.73
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	5723731	200.000	176.50	70.00- 130.00	100.00
10.324	10.324 (1.042)	130	6252200			77.61- 137.61	109.23
10.324	10.324 (1.042)	97	3668083			34.18- 94.18	64.09
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	5908339	200.000	177.45	70.00- 130.00	100.00
10.822	10.822 (1.092)	62	4329709			45.46- 105.46	73.28
10.822	10.822 (1.092)	41	4396590			47.35- 107.35	74.41
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	3516090	200.000	179.60	70.00- 130.00	100.00
11.043	11.043 (1.114)	58	3349632			64.35- 124.35	95.27
11.043	11.043 (1.114)	57	1107878			0.00- 30.00	31.51
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	8832323	200.000	187.64	70.00- 130.00	100.00
11.375	11.375 (1.148)	85	5655799			33.09- 93.09	64.04
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	7435498	200.000	191.39	70.00- 130.00	100.00
12.287	12.287 (1.240)	77	2359726			0.40- 60.40	31.74
12.287	12.287 (1.240)	39	6026710			49.47- 109.47	81.05
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	6146122	200.000	198.27	70.00- 130.00	100.00
12.591	12.591 (1.271)	43	18675745			0.00- 30.00	303.86
12.591	12.591 (1.271)	85	1941458			0.00- 30.00	31.59
99 Toluene					CAS #: 108-88-3		
12.813	12.813 (1.293)	91	15912288	200.000	178.64	70.00- 130.00	100.00
12.813	12.813 (1.293)	92	9673838			30.22- 90.22	60.79
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	7153312	200.000	187.36	70.00- 130.00	100.00
13.338	13.338 (0.889)	77	2237918			1.30- 61.30	31.29
13.338	13.338 (0.889)	39	5556878			46.09- 106.09	77.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	5109602	200.000	172.47	70.00- 130.00	100.00
13.614	13.614 (0.908)	99	3149259			30.53- 90.53	61.63
13.614	13.614 (0.908)	83	4227629			48.18- 108.18	82.74
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	7097319	200.000	173.95	70.00- 130.00	100.00
13.697	13.697 (0.913)	129	5258485			44.91- 104.91	74.09
13.697	13.697 (0.913)	131	5079975			43.72- 103.72	71.58
103 2-Hexanone					CAS #: 591-78-6		
14.002	14.002 (0.934)	58	8114631	200.000	205.01	70.00- 130.00	100.00(A)
14.002	14.002 (0.934)	43	17806848			186.04- 246.04	219.44
14.029	14.029 (0.935)	100	1388919			0.00- 30.00	17.12
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	8694120	200.000	191.54	70.00- 130.00	100.00
14.167	14.167 (0.945)	127	6692236			0.00- 30.00	76.97
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	7937777	200.000	180.82	70.00- 130.00	100.00
14.333	14.333 (0.956)	109	7376939			65.83- 125.83	92.93
109 Chlorobenzene					CAS #: 108-90-7		
15.025	15.025 (1.002)	112	12469105	200.000	175.04	70.00- 130.00	100.00
15.025	15.025 (1.002)	114	3965530			0.94- 60.94	31.80
15.025	15.025 (1.002)	77	6935804			24.15- 84.15	55.62
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	6984391	200.000	181.64	70.00- 130.00	100.00
15.163	15.163 (1.011)	91	18777112			0.00- 30.00	268.84
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	16503343	400.000	322.00	70.00- 130.00	100.00
15.329	15.329 (1.022)	91	24397147			0.00- 30.00	147.83
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	8001240	200.000	178.04	70.00- 130.00	100.00
15.854	15.854 (1.057)	91	16455697			169.60- 229.60	205.66
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	12338049	200.000	191.38	70.00- 130.00	100.00
15.909	15.909 (1.061)	78	5809781			17.14- 77.14	47.09
118 Bromoform					CAS #: 75-25-2		
16.131	16.131 (1.076)	173	7870123	200.000	205.75	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
118 Bromoform (continued)							
16.131	16.131 (1.076)	171	4082528			21.36- 81.36	51.87
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	10152333	200.000	172.76	70.00- 130.00	100.00
16.794	16.794 (1.120)	85	6463437			34.48- 94.48	63.66
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	23468642	200.000	172.53	70.00- 130.00	100.00
16.960	16.960 (1.131)	120	7431159			0.25- 60.25	31.66
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	17588996	200.000	159.07	70.00- 130.00	100.00
17.043	17.043 (1.136)	120	9866802			0.00- 30.00	56.10
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	18370478	200.000	175.94	70.00- 130.00	100.00
17.458	17.458 (1.164)	120	8747744			17.91- 77.91	47.62
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	12351925	200.000	186.65	70.00- 130.00	100.00
17.734	17.734 (1.183)	148	7789515			0.00- 30.00	63.06
17.734	17.734 (1.183)	111	5222983			0.00- 30.00	42.28
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	13202044	200.000	166.41	70.00- 130.00	100.00
17.845	17.845 (1.190)	148	8273574			0.00- 30.00	62.67
17.845	17.845 (1.190)	111	4846868			0.00- 30.00	36.71
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	18019088	200.000	202.95	70.00- 130.00	100.00(A)
17.983	17.983 (1.199)	126	4164583			0.00- 30.00	23.11
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.177	18.177 (1.212)	146	11396122	200.000	178.30	70.00- 130.00	100.00
18.177	18.177 (1.212)	148	7151753			33.77- 93.77	62.76
18.177	18.177 (1.212)	111	5143702			15.48- 75.48	45.14
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	10647442	200.000	189.66	70.00- 130.00	100.00
19.476	19.476 (1.299)	182	9993650			66.86- 126.86	93.86
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	6329227	200.000	162.02	70.00- 130.00	100.00
19.559	19.559 (1.304)	223	4031967			35.20- 95.20	63.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	19562986	200.000	119.44	70.00- 130.00	100.00
16.324	16.324 (1.088)	120	7380155			0.00- 30.00	37.73
16.324	16.324 (1.088)	51	4253091			0.00- 30.00	21.74
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	25745286	200.000	158.46	70.00- 130.00	100.00
16.849	16.849 (1.124)	120	7113783			0.00- 30.00	27.63
16.822	16.822 (1.122)	105	1135758			0.00- 30.00	4.41
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	2624161	200.000	179.23	70.00- 130.00	100.00
5.126	5.126 (0.638)	41	11449915			0.00- 30.00	436.33
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.108	9.108 (1.134)	57	39918887	200.000	173.86	70.00- 130.00	100.00
9.108	9.108 (1.134)	56	14009184			0.00- 30.00	35.09
9.108	9.108 (1.134)	41	11003375			0.00- 30.00	27.56
157 Naphthalene					CAS #: 91-20-3		
19.670	19.670 (1.312)	128	16871211	100.000	79.638	70.00- 130.00	100.00
19.670	19.670 (1.312)	127	2552870			0.00- 30.00	15.13
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	1668731	200.000	172.23	70.00- 130.00	100.00
2.610	2.610 (0.325)	43	12843677			0.00- 30.00	769.67
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	11438579	200.000	174.06	70.00- 130.00	100.00
3.329	3.329 (0.415)	57	6972511			0.00- 30.00	60.96
3.329	3.329 (0.415)	72	675131			0.00- 30.00	5.90
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	9394709	200.000	182.38	70.00- 130.00	100.00
10.573	10.573 (1.317)	98	4698394			0.00- 30.00	50.01
10.573	10.573 (1.317)	55	11322589			0.00- 30.00	120.52

QC Flag Legend

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

Report Date: 22-Nov-2006 13:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8112118.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-21nova.b/t14qn22a.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 21-NOV-2006
Calibration Time: 23:55
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	489478	293687	685269	491489	0.41
79 1,4-Difluorobenze	1959876	1175926	2743826	2015220	2.82
108 Chlorobenzene-d5	1558376	935026	2181726	1611633	3.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

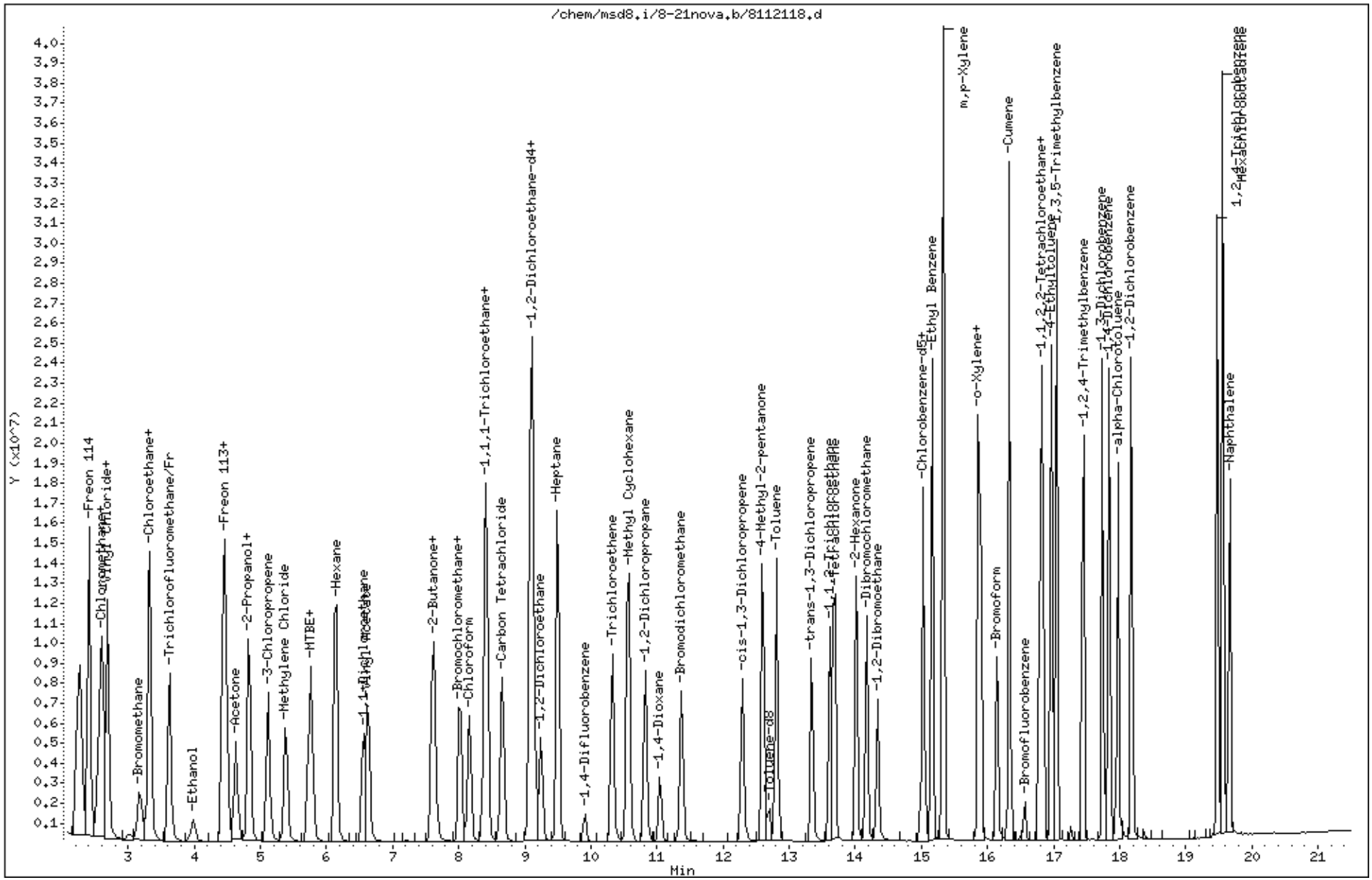
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0192

Data File: /chem/msd8.i/8-21nova.b/8112118.d
Date : 22-NOV-2006 00:57
Client ID: Level 7
Sample Info: 200mL #1408-220

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0612375-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/06 12:13 PM**	

Compound	%Recovery
Freon 12	93
Freon 114	110
Vinyl Chloride	112
Bromomethane	100
Chloroethane	107
Freon 11	99
1,1-Dichloroethene	102
Freon 113	114
Methylene Chloride	108
1,1-Dichloroethane	98
cis-1,2-Dichloroethene	94
Chloroform	94
1,1,1-Trichloroethane	90
Carbon Tetrachloride	96
Benzene	82
1,2-Dichloroethane	104
Trichloroethene	92
1,2-Dichloropropane	82
cis-1,3-Dichloropropene	89
Toluene	85
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	89
Tetrachloroethene	100
1,2-Dibromoethane (EDB)	97
Chlorobenzene	88
Ethyl Benzene	93
m,p-Xylene	88
o-Xylene	94
Styrene	93
1,1,2,2-Tetrachloroethane	85
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	86
1,2-Dichlorobenzene	103
1,3-Butadiene	119
Hexane	105
Cyclohexane	87

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0612375-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/06 12:13 PM**	

Compound	%Recovery
Heptane	84
Bromodichloromethane	96
Dibromochloromethane	99
Cumene	85
Propylbenzene	88
Chloromethane	124
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	132 Q
Acetone	107
Carbon Disulfide	100
2-Propanol	111
trans-1,2-Dichloroethene	93
2-Butanone (Methyl Ethyl Ketone)	80
Tetrahydrofuran	90
1,4-Dioxane	78
4-Methyl-2-pentanone	89
2-Hexanone	88
Bromoform	104
4-Ethyltoluene	93
Ethanol	115
Methyl tert-butyl ether	69 Q
3-Chloropropene	96
2,2,4-Trimethylpentane	88
Naphthalene	70

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 28-DEC-2006 12:13
Lab File ID: 8122803.d Init. Cal. Date(s): 21-NOV-2006 15-DEC-2006
Analysis Type: AIR Init. Cal. Times: 22:00 13:03
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-28dec.b/t14qn22d.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 71 1,2-Dichloroethane-d4	1.56320	1.55664	0.010	0.41993	30.00000	Averaged
$ 97 Toluene-d8	0.91795	0.85508	0.010	6.84948	30.00000	Averaged
$ 123 Bromofluorobenzene	0.54970	0.59445	0.010	-8.14235	30.00000	Averaged
6 Propylene	2.25061	2.59224	0.010	-15.17926	30.00000	Averaged
2 Dichlorodifluoromethane/Fr1	4.80499	4.45306	0.010	7.32429	30.00000	Averaged
4 Freon 114	3.20889	3.54732	0.010	-10.54678	30.00000	Averaged
5 Chloromethane	2.46405	3.06430	0.010	-24.36025	30.00000	Averaged
8 Vinyl Chloride	2.15567	2.40465	0.010	-11.54980	30.00000	Averaged
9 1,3-Butadiene	1.67190	1.98368	0.010	-18.64835	30.00000	Averaged
10 Bromomethane	1.40907	1.41568	0.010	-0.46946	30.00000	Averaged
12 Chloroethane	1.13220	1.21341	0.010	-7.17329	30.00000	Averaged
13 Trichlorofluoromethane/Fr11	4.20252	4.17443	0.010	0.66824	30.00000	Averaged
17 Ethanol	0.85801	0.98338	0.010	-14.61192	30.00000	Averaged
24 Freon 113	2.55669	2.91677	0.010	-14.08385	30.00000	Averaged
25 1,1-Dichloroethene	3.20458	3.26596	0.010	-1.91552	30.00000	Averaged
26 Acetone	0.99109	1.05926	0.010	-6.87836	30.00000	Averaged
30 2-Propanol	3.71604	4.11143	0.010	-10.63988	30.00000	Averaged
29 Carbon Disulfide	3.97200	3.98228	0.010	-0.25892	30.00000	Averaged
32 3-Chloropropene	0.74475	0.71834	0.010	3.54598	30.00000	Averaged
33 Methylene Chloride	2.82544	3.04130	0.010	-7.64008	30.00000	Averaged
34 MTBE	2.56904	1.77728	0.010	30.81945	30.00000	Averaged<-
35 trans-1,2-Dichloroethene	1.55649	1.45291	0.010	6.65464	30.00000	Averaged
40 Hexane	3.50928	3.67256	0.010	-4.65266	30.00000	Averaged
46 Vinyl Acetate	0.34777	0.32189	0.010	7.44182	30.00000	Averaged
44 1,1-Dichloroethane	3.20863	3.15226	0.010	1.75665	30.00000	Averaged
54 2-Butanone	0.77617	0.62422	0.010	19.57735	30.00000	Averaged
53 cis-1,2-Dichloroethene	2.69703	2.53358	0.010	6.06011	30.00000	Averaged
57 Tetrahydrofuran	2.97162	2.67784	0.010	9.88640	30.00000	Averaged
59 Chloroform	2.57810	2.42818	0.010	5.81481	30.00000	Averaged
63 1,1,1-Trichloroethane	2.99602	2.70972	0.010	9.55595	30.00000	Averaged
62 Cyclohexane	2.18385	1.90455	0.010	12.78938	30.00000	Averaged
65 Carbon Tetrachloride	2.98412	2.86285	0.010	4.06377	30.00000	Averaged
68 2,2,4-Trimethylpentane	11.82726	10.43560	0.010	11.76648	30.00000	Averaged
70 Benzene	1.15478	0.94578	0.010	18.09884	30.00000	Averaged
72 1,2-Dichloroethane	0.53271	0.55402	0.010	-4.00092	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 28-DEC-2006 12:13
Lab File ID: 8122803.d Init. Cal. Date(s): 21-NOV-2006 15-DEC-2006
Analysis Type: AIR Init. Cal. Times: 22:00 13:03
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-28dec.b/t14qn22d.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
75 Heptane	0.14241	0.12045	0.010	15.42407	30.00000	Averaged	
80 Trichloroethene	0.40945	0.37746	0.010	7.81459	30.00000	Averaged	
83 1,2-Dichloropropane	0.44283	0.36532	0.010	17.50452	30.00000	Averaged	
85 1,4-Dioxane	0.24286	0.18884	0.010	22.24452	30.00000	Averaged	
86 Bromodichloromethane	0.57922	0.55399	0.010	4.35575	30.00000	Averaged	
91 cis-1,3-Dichloropropene	0.49797	0.44198	0.010	11.24435	30.00000	Averaged	
92 4-Methyl-2-pentanone	0.37860	0.33803	0.010	10.71554	30.00000	Averaged	
99 Toluene	1.10221	0.94167	0.010	14.56522	30.00000	Averaged	
100 trans-1,3-Dichloropropene	0.57983	0.57077	0.010	1.56140	30.00000	Averaged	
101 1,1,2-Trichloroethane	0.47313	0.42101	0.010	11.01612	30.00000	Averaged	
102 Tetrachloroethene	0.64636	0.64491	0.010	0.22362	30.00000	Averaged	
103 2-Hexanone	0.61400	0.54209	0.010	11.71182	30.00000	Averaged	
105 Dibromochloromethane	0.68195	0.67429	0.010	1.12222	30.00000	Averaged	
106 1,2-Dibromoethane	0.67281	0.65048	0.010	3.31779	30.00000	Averaged	
109 Chlorobenzene	1.15568	1.01197	0.010	12.43510	30.00000	Averaged	
111 Ethyl Benzene	0.60852	0.56703	0.010	6.81808	30.00000	Averaged	
113 m,p-Xylene	0.78865	0.69432	0.010	11.96116	30.00000	Averaged	
114 o-Xylene	0.70307	0.66379	0.010	5.58582	30.00000	Averaged	
115 Styrene	0.96135	0.89746	0.010	6.64556	30.00000	Averaged	
118 Bromoform	0.57697	0.60125	0.010	-4.20753	30.00000	Averaged	
124 1,1,2,2-Tetrachloroethane	0.92780	0.79309	0.010	14.51932	30.00000	Averaged	
127 4-Ethyltoluene	2.08185	1.93729	0.010	6.94349	30.00000	Averaged	
129 1,3,5-Trimethylbenzene	1.68331	1.80288	0.010	-7.10308	30.00000	Averaged	
131 1,2,4-Trimethylbenzene	1.62158	1.51623	0.010	6.49684	30.00000	Averaged	
138 1,3-Dichlorobenzene	1.01629	1.03107	0.010	-1.45403	30.00000	Averaged	
142 1,4-Dichlorobenzene	1.24052	1.26964	0.010	-2.34754	30.00000	Averaged	
144 alpha-Chlorotoluene	1.31258	1.13051	0.010	13.87149	30.00000	Averaged	
147 1,2-Dichlorobenzene	1.00495	1.03304	0.010	-2.79499	30.00000	Averaged	
155 1,2,4-Trichlorobenzene	0.87087	0.97489	0.010	-11.94495	30.00000	Averaged	
156 Hexachlorobutadiene	0.60596	0.79999	0.010	-32.01963	30.00000	Averaged	<-
125 Propylbenzene	2.51611	2.21765	0.010	11.86172	30.00000	Averaged	
119 Cumene	2.53026	2.14349	0.010	15.28581	30.00000	Averaged	
157 Naphthalene	3.28624	2.30105	0.010	29.97931	40.00000	Averaged	
11 Isopentane	3.34265	3.81550	0.010	-14.14596	30.00000	Averaged	
7 Butane	0.49284	0.57348	0.010	-16.36233	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 28-DEC-2006 12:13
Lab File ID: 8122803.d Init. Cal. Date(s): 21-NOV-2006 15-DEC-2006
Analysis Type: AIR Init. Cal. Times: 22:00 13:03
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-28dec.b/t14qn22d.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
81 Methyl Cyclohexane	2.69603	2.19661	0.010	18.52421	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-28dec.b/8122803.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 28-DEC-2006 12:13
Operator : JG Inst ID: msd8.i
Smp Info : 50mL #1408-296
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Meth Date : 28-Dec-2006 14:17 jgray Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+Na+ENS.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
==	====== ========	====	========	=======	=======	==========		=====
* 58 Bromochloromethane						CAS #: 74-97-5		
8.029	8.029 (1.000)	130	339429	25.0000		80.00- 120.00		100.00
8.029	8.029 (1.000)	128	259207			46.37- 106.37		76.37
8.029	8.029 (1.000)	49	851869			220.97- 280.97		250.97
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1314186	25.0000		80.00- 120.00		100.00
9.909	9.909 (1.000)	88	205141			0.00- 45.61		15.61
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	979072	25.0000		80.00- 120.00		100.00
14.997	14.997 (1.000)	82	517213			0.00- 30.00		52.83
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.107	9.107 (1.134)	65	528368	25.0000	24.895	80.00- 120.00		100.00
9.107	9.107 (1.134)	67	288758			0.00- 30.00		54.65
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	1123730	25.0000	23.288	80.00- 120.00		100.00
12.674	12.674 (1.279)	70	129154			0.00- 30.00		11.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	754594			0.00- 30.00	67.15
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	582013	25.0000	27.036	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	719212			93.57- 153.57	123.57
16.573	16.573 (1.105)	176	609498			74.72- 134.72	104.72
6 Propylene					CAS #: 115-07-1		
2.223	2.223 (0.277)	41	1759764	50.0000	57.590	80.00- 120.00	100.00
2.223	2.223 (0.277)	42	1194961			0.00- 30.00	67.90
2.223	2.223 (0.277)	39	1194549			0.00- 30.00	67.88
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.278 (0.284)	85	3022996	50.0000	46.338	80.00- 120.00	100.00
2.278	2.278 (0.284)	87	961911			0.00- 30.00	31.82
4 Freon 114					CAS #: 76-14-2		
2.416	2.416 (0.301)	135	2408128	50.0000	55.273	80.00- 120.00	100.00
2.416	2.416 (0.301)	137	765840			1.80- 61.80	31.80
5 Chloromethane					CAS #: 74-87-3		
2.554	2.554 (0.318)	50	2080225	50.0000	62.180	80.00- 120.00	100.00
2.554	2.554 (0.318)	52	638807			0.00- 30.00	30.71
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.693 (0.335)	62	1632414	50.0000	55.775	80.00- 120.00	100.00
2.693	2.693 (0.335)	64	476683			0.00- 30.00	29.20
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	1346640	50.0000	59.324	80.00- 120.00	100.00
2.693	2.693 (0.335)	39	1435199			0.00- 30.00	106.58
10 Bromomethane					CAS #: 74-83-9		
3.190	3.190 (0.397)	94	961048	50.0000	50.235	80.00- 120.00	100.00
3.190	3.190 (0.397)	96	908128			64.49- 124.49	94.49
12 Chloroethane					CAS #: 75-00-3		
3.301	3.301 (0.411)	64	823734	50.0000	53.587	80.00- 120.00	100.00
3.301	3.301 (0.411)	49	275856			0.00- 30.00	33.49
3.301	3.301 (0.411)	66	242386			0.00- 30.00	29.43
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	2833847	50.0000	49.666	80.00- 120.00	100.00
3.633	3.633 (0.452)	103	1852399			35.37- 95.37	65.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.965	3.965 (0.494)	45	667578	50.0000	57.306	80.00- 120.00	100.00
3.965	3.965 (0.494)	43	145462			0.00- 30.00	21.79
3.965	3.965 (0.494)	46	286295			0.00- 30.00	42.89
24 Freon 113					CAS #: 76-13-1		
4.462	4.462 (0.556)	151	1980071	50.0000	57.042	80.00- 120.00	100.00
4.462	4.462 (0.556)	153	1223187			31.77- 91.77	61.77
4.462	4.462 (0.556)	101	2244399			83.35- 143.35	113.35
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	2217126	50.0000	50.958	80.00- 120.00	100.00
4.490	4.490 (0.559)	96	1055317			17.60- 77.60	47.60
4.490	4.490 (0.559)	98	680169			0.68- 60.68	30.68
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	719088	50.0000	53.439	80.00- 120.00	100.00
4.628	4.628 (0.576)	43	2553580			0.00- 30.00	355.11
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	2791075	50.0000	55.320	80.00- 120.00	100.00
4.822	4.822 (0.601)	43	560766			0.00- 30.00	20.09
4.822	4.822 (0.601)	59	81392			0.00- 30.00	2.92
29 Carbon Disulfide					CAS #: 75-15-0		
4.849	4.849 (0.604)	76	2703403	50.0000	50.129	80.00- 120.00	100.00
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	487654	50.0000	48.227	80.00- 120.00	100.00
5.126	5.126 (0.638)	41	2302932			0.00- 30.00	472.25
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	2064612	50.0000	53.820	80.00- 120.00	100.00
5.375	5.375 (0.669)	84	898870			13.54- 73.54	43.54
5.375	5.375 (0.669)	51	631017			0.00- 30.00	30.56
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	1206519	50.0000	34.590	80.00- 120.00	100.00
5.734	5.734 (0.714)	57	409535			3.94- 63.94	33.94
5.734	5.734 (0.714)	41	434324			0.00- 30.00	36.00
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.789	5.789 (0.721)	96	986320	50.0000	46.673	80.00- 120.00	100.00
5.789	5.789 (0.721)	61	1830301			155.57- 215.57	185.57
5.789	5.789 (0.721)	98	635108			0.00- 30.00	64.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	2493146	50.0000	52.326	80.00- 120.00	100.00
6.149	6.149 (0.766)	43	1757790			0.00- 30.00	70.50
6.149	6.149 (0.766)	86	308068			0.00- 30.00	12.36
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	218516	50.0000	46.279	80.00- 120.00	100.00
6.647	6.647 (0.828)	43	3544565			0.00- 30.00	1622.11
6.647	6.647 (0.828)	42	281709			0.00- 30.00	128.92
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	2139939	50.0000	49.122	80.00- 120.00	100.00
6.564	6.564 (0.817)	65	628233			0.00- 59.36	29.36
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	423754	50.0000	40.211	80.00- 120.00	100.00
7.642	7.642 (0.952)	43	3021861			683.12- 743.12	713.12
7.642	7.642 (0.952)	57	197644			0.00- 30.00	46.64
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.587	7.587 (0.945)	61	1719943	50.0000	46.970	80.00- 120.00	100.00
7.614	7.614 (0.948)	96	997712			28.01- 88.01	58.01
7.614	7.614 (0.948)	98	624246			6.29- 66.29	36.29
57 Tetrahydrofuran					CAS #: 109-99-9		
8.029	8.029 (1.000)	42	1817870	50.0000	45.057	80.00- 120.00	100.00
8.029	8.029 (1.000)	71	376334			0.00- 50.70	20.70
8.029	8.029 (1.000)	72	432638			0.00- 30.00	23.80
59 Chloroform					CAS #: 67-66-3		
8.167	8.167 (1.017)	83	1648392	50.0000	47.092	80.00- 120.00	100.00
8.167	8.167 (1.017)	85	1043537			33.31- 93.31	63.31
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	1839517	50.0000	45.222	80.00- 120.00	100.00
8.416	8.416 (1.048)	99	1202982			35.40- 95.40	65.40
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	1292917	50.0000	43.605	80.00- 120.00	100.00
8.416	8.416 (1.048)	56	2289199			147.06- 207.06	177.06
8.416	8.416 (1.048)	41	1330097			72.88- 132.88	102.88
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	1943469	50.0000	47.968	80.00- 120.00	100.00
8.665	8.665 (1.079)	117	2021093			73.99- 133.99	103.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.107	9.107 (1.134)	57	7084293	50.0000	44.117	80.00- 120.00	100.00
9.107	9.107 (1.134)	56	2437087			0.00- 30.00	34.40
9.107	9.107 (1.134)	41	1908939			0.00- 30.00	26.95
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	2485862	50.0000	40.950	80.00- 120.00	100.00
9.080	9.080 (0.916)	77	609032			0.00- 30.00	24.50
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	1456169	50.0000	52.000	80.00- 120.00	100.00
9.246	9.246 (0.933)	64	418909			0.00- 30.00	28.77
75 Heptane					CAS #: 142-82-5		
9.495	9.495 (0.958)	100	316577	50.0000	42.288	80.00- 120.00	100.00
9.495	9.495 (0.958)	43	2723442			0.00- 30.00	860.28
9.495	9.495 (0.958)	71	892136			0.00- 30.00	281.81
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	992096	50.0000	46.093	80.00- 120.00	100.00
10.324	10.324 (1.042)	130	1105496			81.43- 141.43	111.43
10.324	10.324 (1.042)	97	634305			33.94- 93.94	63.94
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	960191	50.0000	41.248	80.00- 120.00	100.00
10.822	10.822 (1.092)	62	739738			47.04- 107.04	77.04
10.822	10.822 (1.092)	41	826532			56.08- 116.08	86.08
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	496340	50.0000	38.878	80.00- 120.00	100.00
11.043	11.043 (1.114)	58	534290			77.65- 137.65	107.65
11.043	11.043 (1.114)	57	177291			0.00- 30.00	35.72
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	1456086	50.0000	47.822	80.00- 120.00	100.00
11.375	11.375 (1.148)	85	939242			34.50- 94.50	64.50
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	1161679	50.0000	44.378	80.00- 120.00	100.00
12.287	12.287 (1.240)	77	357332			0.76- 60.76	30.76
12.287	12.287 (1.240)	39	1011412			57.06- 117.06	87.06
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	888470	50.0000	44.642	80.00- 120.00	100.00
12.591	12.591 (1.271)	43	2712936			0.00- 30.00	305.35
12.591	12.591 (1.271)	85	274148			0.00- 30.00	30.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.812	12.812 (1.293)	91	2475063	50.0000	42.717	80.00- 120.00	100.00
12.812	12.812 (1.293)	92	1504402			30.78- 90.78	60.78
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	1117654	50.0000	49.219	80.00- 120.00	100.00
13.338	13.338 (0.889)	77	354749			1.74- 61.74	31.74
13.338	13.338 (0.889)	39	936107			53.76- 113.76	83.76
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	824404	50.0000	44.492	80.00- 120.00	100.00
13.614	13.614 (0.908)	99	500904			30.76- 90.76	60.76
13.614	13.614 (0.908)	83	635436			47.08- 107.08	77.08
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	1262826	50.0000	49.888	80.00- 120.00	100.00
13.670	13.670 (0.912)	129	895917			40.95- 100.95	70.95
13.670	13.670 (0.912)	131	836363			36.23- 96.23	66.23
103 2-Hexanone					CAS #: 591-78-6		
14.001	14.001 (0.934)	58	1061494	50.0000	44.144	80.00- 120.00	100.00
14.001	14.001 (0.934)	43	2395569			195.68- 255.68	225.68
14.029	14.029 (0.935)	100	160957			0.00- 30.00	15.16
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	1320366	50.0000	49.439	80.00- 120.00	100.00
14.167	14.167 (0.945)	127	1085391			0.00- 30.00	82.20
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	1273739	50.0000	48.341	80.00- 120.00	100.00
14.333	14.333 (0.956)	109	1201935			64.36- 124.36	94.36
109 Chlorobenzene					CAS #: 108-90-7		
15.024	15.024 (1.002)	112	1981590	50.0000	43.782	80.00- 120.00	100.00
15.024	15.024 (1.002)	114	638783			2.24- 62.24	32.24
15.024	15.024 (1.002)	77	1108701			25.95- 85.95	55.95
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	1110330	50.0000	46.591	80.00- 120.00	100.00
15.163	15.163 (1.011)	91	3337916			0.00- 30.00	300.62
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	2719151	100.000	88.039	80.00- 120.00	100.00
15.329	15.329 (1.022)	91	5244956			0.00- 30.00	192.89
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	1299806	50.0000	47.207	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.854	15.854 (1.057)	91	2659365			174.60- 234.60	204.60
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	1757353	50.0000	46.677	80.00- 120.00	100.00
15.882	15.882 (1.059)	78	878508			19.99- 79.99	49.99
118 Bromoform					CAS #: 75-25-2		
16.130	16.130 (1.076)	173	1177329	50.0000	52.104	80.00- 120.00	100.00
16.130	16.130 (1.076)	171	616043			22.33- 82.33	52.33
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	1552991	50.0000	42.740	80.00- 120.00	100.00
16.794	16.794 (1.120)	85	1004668			34.69- 94.69	64.69
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	3793498	50.0000	46.528	80.00- 120.00	100.00
16.960	16.960 (1.131)	120	1104752			0.00- 59.12	29.12
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	3530293	50.0000	53.552	80.00- 120.00	100.00
17.043	17.043 (1.136)	120	1728642			0.00- 30.00	48.97
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	2968994	50.0000	46.752	80.00- 120.00	100.00
17.458	17.458 (1.164)	120	1370211			16.15- 76.15	46.15
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	2018977	50.0000	50.727	80.00- 120.00	100.00
17.734	17.734 (1.183)	148	1289563			0.00- 30.00	63.87
17.734	17.734 (1.183)	111	852244			0.00- 30.00	42.21
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	2486132	50.0000	51.174	80.00- 120.00	100.00
17.845	17.845 (1.190)	148	1557738			0.00- 30.00	62.66
17.845	17.845 (1.190)	111	911796			0.00- 30.00	36.68
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	2213699	50.0000	43.064	80.00- 120.00	100.00
17.983	17.983 (1.199)	126	503957			0.00- 30.00	22.77
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.176	18.176 (1.212)	146	2022846	50.0000	51.397	80.00- 120.00	100.00
18.176	18.176 (1.212)	148	1258271			32.20- 92.20	62.20
18.176	18.176 (1.212)	111	889587			13.98- 73.98	43.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	1908981	50.0000	55.972	80.00- 120.00	100.00
19.476	19.476 (1.299)	182	1805678			64.59- 124.59	94.59
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	1566492	50.0000	66.010	80.00- 120.00	100.00
19.559	19.559 (1.304)	223	1002142			33.97- 93.97	63.97
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	4342487	50.0000	44.069	80.00- 120.00	100.00
16.822	16.822 (1.122)	120	1075051			0.00- 30.00	24.76
16.822	16.822 (1.122)	105	166455			0.00- 30.00	3.83
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	4197261	50.0000	42.357	80.00- 120.00	100.00
16.324	16.324 (1.088)	120	1092673			0.00- 30.00	26.03
16.324	16.324 (1.088)	51	692078			0.00- 30.00	16.49
157 Naphthalene					CAS #: 91-20-3		
19.669	19.669 (1.312)	128	2252890	25.0000	17.505	80.00- 120.00	100.00
19.669	19.669 (1.312)	127	303993			0.00- 30.00	13.49
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	2590183	50.0000	57.073	80.00- 120.00	100.00
3.329	3.329 (0.415)	57	1570688			0.00- 30.00	60.64
3.329	3.329 (0.415)	72	136587			0.00- 30.00	5.27
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	389310	50.0000	58.181	80.00- 120.00	100.00
2.610	2.610 (0.325)	43	3059282			0.00- 30.00	785.82
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	1491187	50.0000	40.738	80.00- 120.00	100.00
10.573	10.573 (1.317)	98	761918			0.00- 30.00	51.09
10.573	10.573 (1.317)	55	1854526			0.00- 30.00	124.37

Report Date: 28-Dec-2006 14:17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122803.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 28-DEC-2006
Calibration Time: 13:22
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	284063	170438	397688	339429	19.49
79 1,4-Difluorobenze	1144320	686592	1602048	1314186	14.84
108 Chlorobenzene-d5	793940	476364	1111516	979072	23.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

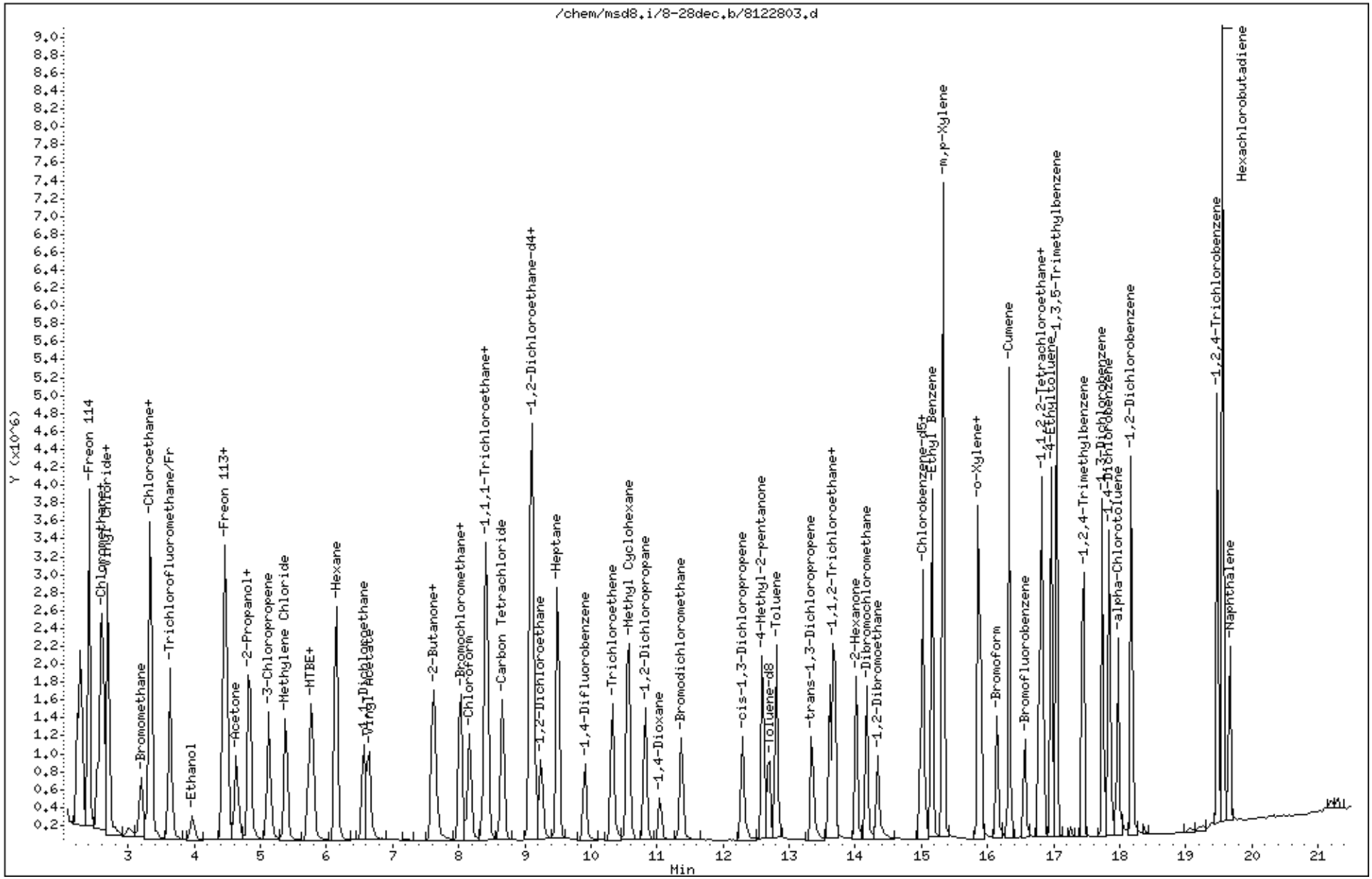
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0207

Data File: /chem/msd8.i/8-28dec.b/8122803.d
Date : 28-DEC-2006 12:13
Client ID: CCV-1
Sample Info: 50mL #1408-296

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0612375-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/06 12:41 PM**	

Compound	%Recovery
Freon 12	79
Freon 114	96
Vinyl Chloride	96
Bromomethane	93
Chloroethane	100
Freon 11	90
1,1-Dichloroethene	94
Freon 113	101
Methylene Chloride	100
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	91
Chloroform	88
1,1,1-Trichloroethane	86
Carbon Tetrachloride	90
Benzene	76
1,2-Dichloroethane	96
Trichloroethene	87
1,2-Dichloropropane	80
cis-1,3-Dichloropropene	54 Q
Toluene	79
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	84
Tetrachloroethene	95
1,2-Dibromoethane (EDB)	89
Chlorobenzene	84
Ethyl Benzene	91
m,p-Xylene	79
o-Xylene	79
Styrene	75
1,1,2,2-Tetrachloroethane	79
1,3,5-Trimethylbenzene	81
1,2,4-Trimethylbenzene	58 Q
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	98
1,3-Butadiene	108
Hexane	100
Cyclohexane	82

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0612375-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8122804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/28/06 12:41 PM**	

Compound	%Recovery
Heptane	82
Bromodichloromethane	90
Dibromochloromethane	96
Cumene	85
Propylbenzene	93
Chloromethane	111
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	103
Acetone	105
Carbon Disulfide	95
2-Propanol	108
trans-1,2-Dichloroethene	93
2-Butanone (Methyl Ethyl Ketone)	77
Tetrahydrofuran	90
1,4-Dioxane	79
4-Methyl-2-pentanone	86
2-Hexanone	85
Bromoform	84
4-Ethyltoluene	97
Ethanol	118
Methyl tert-butyl ether	67
3-Chloropropene	98
2,2,4-Trimethylpentane	90
Naphthalene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	121	70-130

Report Date: 28-Dec-2006 12:56

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-28dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: AT04+NA+ENSR-2.spk Quant Type: ISTD
Sublist File: AT04+Na+ENS.sub
Method File: /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Propylene	50.000	49.951	99.90	60-140
2 Dichlorodifluorome	50.000	39.738	79.48	70-130
4 Freon 114	50.000	48.140	96.28	70-130
5 Chloromethane	50.000	55.562	111.12	70-130
8 Vinyl Chloride	50.000	48.089	96.18	70-130
9 1,3-Butadiene	50.000	54.140	108.28	60-140
10 Bromomethane	50.000	46.521	93.04	70-130
12 Chloroethane	50.000	50.279	100.56	70-130
13 Trichlorofluoromet	50.000	44.803	89.61	70-130
17 Ethanol	50.000	58.860	117.72	60-140
24 Freon 113	50.000	50.315	100.63	70-130
25 1,1-Dichloroethene	50.000	46.940	93.88	70-130
26 Acetone	50.000	52.369	104.74	60-140
29 Carbon Disulfide	50.000	47.548	95.10	60-140
30 2-Propanol	50.000	54.125	108.25	60-140
33 Methylene Chloride	50.000	49.772	99.54	70-130
34 MTBE	50.000	33.559	67.12	60-140
35 trans-1,2-Dichloro	50.000	46.575	93.15	60-140
40 Hexane	50.000	50.182	100.36	60-140
44 1,1-Dichloroethane	50.000	45.052	90.10	70-130
46 Vinyl Acetate	50.000	42.054	84.11	60-140
53 cis-1,2-Dichloroet	50.000	45.525	91.05	70-130
54 2-Butanone	50.000	38.597	77.19	60-140
57 Tetrahydrofuran	50.000	44.995	89.99	60-140
59 Chloroform	50.000	43.905	87.81	70-130
62 Cyclohexane	50.000	40.985	81.97	60-140
63 1,1,1-Trichloroeth	50.000	43.102	86.20	70-130
65 Carbon Tetrachlori	50.000	45.023	90.05	70-130
70 Benzene	50.000	38.116	76.23	70-130
72 1,2-Dichloroethane	50.000	47.857	95.71	70-130
75 Heptane	50.000	40.977	81.95	60-140
80 Trichloroethene	50.000	43.402	86.80	70-130
83 1,2-Dichloropropan	50.000	40.039	80.08	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
85 1,4-Dioxane	50.000	39.327	78.65	60-140
86 Bromodichlorometha	50.000	45.258	90.52	60-140
91 cis-1,3-Dichloropr	50.000	27.123	54.25*	70-130
92 4-Methyl-2-pentano	50.000	42.982	85.96	60-140
99 Toluene	50.000	39.590	79.18	70-130
101 1,1,2-Trichloroeth	50.000	42.053	84.11	70-130
102 Tetrachloroethene	50.000	47.646	95.29	70-130
103 2-Hexanone	50.000	42.626	85.25	60-140
105 Dibromochlorometha	50.000	47.974	95.95	60-140
106 1,2-Dibromoethane	50.000	44.383	88.77	70-130
109 Chlorobenzene	50.000	41.775	83.55	70-130
111 Ethyl Benzene	50.000	45.482	90.96	70-130
113 m,p-Xylene	100.00	78.858	78.86	70-130
114 o-Xylene	50.000	39.418	78.84	70-130
118 Bromoform	50.000	41.808	83.62	60-140
124 1,1,2,2-Tetrachlor	50.000	39.476	78.95	70-130
127 4-Ethyltoluene	50.000	48.345	96.69	60-140
129 1,3,5-Trimethylben	50.000	40.452	80.90	70-130
131 1,2,4-Trimethylben	50.000	28.880	57.76*	70-130
138 1,3-Dichlorobenzen	50.000	50.187	100.37	70-130
142 1,4-Dichlorobenzen	50.000	49.194	98.39	70-130
144 alpha-Chlorotoluen	50.000	49.416	98.83	70-130
147 1,2-Dichlorobenzen	50.000	48.785	97.57	70-130
155 1,2,4-Trichloroben	50.000	49.671	99.34	70-130
156 Hexachlorobutadien	50.000	51.410	102.82	70-130
119 Cumene	50.000	42.657	85.31	60-140
125 Propylbenzene	50.000	46.436	92.87	60-140
32 3-Chloropropene	50.000	49.266	98.53	60-140
68 2,2,4-Trimethylpen	50.000	44.953	89.91	60-140
157 Naphthalene	25.000	21.017	84.07	60-140
11 Isopentane	50.000	55.387	110.77	70-130
7 Butane	50.000	57.011	114.02	60-140
81 Methyl Cyclohexane	50.000	40.299	80.60	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	27.220	108.88	70-130
$ 97 Toluene-d8	25.000	23.715	94.86	70-130
$ 123 Bromofluorobenzene	25.000	30.191	120.77	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-28dec.b/8122804.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 28-DEC-2006 12:41
Operator : JG Inst ID: msd8.i
Smp Info : 50mL #1408-256
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Meth Date : 28-Dec-2006 12:32 jgray Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+Na+ENS.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	282179	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	228345			46.37- 106.37	80.92
8.029	8.029 (1.000)	49	714458			220.97- 280.97	253.19
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1128470	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	185957			0.00- 45.61	16.48
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	834919	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	460311			0.00- 30.00	55.13
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.107 (1.134)	65	480278	27.2203	27.220	80.00- 120.00	100.00
9.108	9.107 (1.134)	67	233565			0.00- 30.00	48.63
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	982648	23.7153	23.715	80.00- 120.00	100.00
12.702	12.674 (1.282)	70	102512			0.00- 30.00	10.43

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	655970			0.00- 30.00	66.76
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	554253	30.1913	30.191	80.00- 120.00	100.00
16.545	16.573 (1.103)	95	640977			93.57- 153.57	115.65
16.573	16.573 (1.105)	176	513896			74.72- 134.72	92.72
6 Propylene					CAS #: 115-07-1		
2.223	2.223 (0.277)	41	1268898	49.9506	49.951	80.00- 120.00	100.00
2.223	2.223 (0.277)	42	844787			0.00- 30.00	66.58
2.223	2.223 (0.277)	39	862487			0.00- 30.00	67.97
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.278	2.278 (0.284)	85	2155165	39.7377	39.738	80.00- 120.00	100.00
2.278	2.278 (0.284)	87	695918			0.00- 30.00	32.29
4 Freon 114					CAS #: 76-14-2		
2.389	2.416 (0.298)	135	1743584	48.1397	48.140	80.00- 120.00	100.00
2.389	2.416 (0.298)	137	542264			1.80- 61.80	31.10
5 Chloromethane					CAS #: 74-87-3		
2.527	2.554 (0.315)	50	1545307	55.5623	55.562	80.00- 120.00	100.00
2.527	2.554 (0.315)	52	474128			0.00- 30.00	30.68
8 Vinyl Chloride					CAS #: 75-01-4		
2.693	2.693 (0.335)	62	1170070	48.0889	48.089	80.00- 120.00	100.00
2.693	2.693 (0.335)	64	333284			0.00- 30.00	28.48
9 1,3-Butadiene					CAS #: 106-99-0		
2.693	2.693 (0.335)	54	1021671	54.1397	54.140	80.00- 120.00	100.00
2.693	2.693 (0.335)	39	978999			0.00- 30.00	95.82
10 Bromomethane					CAS #: 74-83-9		
3.163	3.190 (0.394)	94	739884	46.5208	46.521	80.00- 120.00	100.00
3.163	3.190 (0.394)	96	711696			64.49- 124.49	96.19
12 Chloroethane					CAS #: 75-00-3		
3.301	3.301 (0.411)	64	642529	50.2790	50.279	80.00- 120.00	100.00
3.301	3.301 (0.411)	49	218226			0.00- 30.00	33.96
3.301	3.301 (0.411)	66	179866			0.00- 30.00	27.99
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.633	3.633 (0.452)	101	2125228	44.8035	44.803	80.00- 120.00	100.00
3.633	3.633 (0.452)	103	1366334			35.37- 95.37	64.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
3.965	3.965 (0.494)	45	570032	58.8601	58.860	80.00- 120.00	100.00
3.965	3.965 (0.494)	43	116727			0.00- 30.00	20.48
3.965	3.965 (0.494)	46	237062			0.00- 30.00	41.59
24 Freon 113					CAS #: 76-13-1		
4.435	4.462 (0.552)	151	1451981	50.3151	50.315	80.00- 120.00	100.00
4.435	4.462 (0.552)	153	939822			31.77- 91.77	64.73
4.435	4.462 (0.552)	101	1685922			83.35- 143.35	116.11
25 1,1-Dichloroethene					CAS #: 75-35-4		
4.490	4.490 (0.559)	61	1697863	46.9404	46.940	80.00- 120.00	100.00
4.490	4.490 (0.559)	96	794202			17.60- 77.60	46.78
4.490	4.490 (0.559)	98	496228			0.68- 60.68	29.23
26 Acetone					CAS #: 67-64-1		
4.628	4.628 (0.576)	58	585828	52.3687	52.369	80.00- 120.00	100.00
4.628	4.628 (0.576)	43	2073028			0.00- 30.00	353.86
30 2-Propanol					CAS #: 67-63-0		
4.822	4.822 (0.601)	45	2270195	54.1250	54.125	80.00- 120.00	100.00
4.822	4.822 (0.601)	43	465210			0.00- 30.00	20.49
4.822	4.822 (0.601)	59	81655			0.00- 30.00	3.60
29 Carbon Disulfide					CAS #: 75-15-0		
4.822	4.849 (0.601)	76	2131682	47.5476	47.548	80.00- 120.00	100.00
32 3-Chloropropene					CAS #: 107-05-1		
5.126	5.126 (0.638)	76	414137	49.2659	49.266	80.00- 120.00	100.00
5.126	5.126 (0.638)	41	2006066			0.00- 30.00	484.40
33 Methylene Chloride					CAS #: 75-09-2		
5.375	5.375 (0.669)	49	1587279	49.7718	49.772	80.00- 120.00	100.00
5.375	5.375 (0.669)	84	679757			13.54- 73.54	42.83
5.375	5.375 (0.669)	51	473594			0.00- 30.00	29.84
34 MTBE					CAS #: 1634-04-4		
5.734	5.734 (0.714)	73	973114	33.5589	33.559	80.00- 120.00	100.00
5.734	5.734 (0.714)	57	337044			3.94- 63.94	34.64
5.734	5.734 (0.714)	41	357698			0.00- 30.00	36.76
35 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.762	5.789 (0.718)	96	818251	46.5753	46.575	80.00- 120.00	100.00
5.762	5.789 (0.718)	61	1481029			155.57- 215.57	181.00
5.762	5.789 (0.718)	98	492932			0.00- 30.00	60.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
40 Hexane					CAS #: 110-54-3		
6.149	6.149 (0.766)	57	1987695	50.1818	50.182	80.00- 120.00	100.00
6.149	6.149 (0.766)	43	1404044			0.00- 30.00	70.64
6.149	6.149 (0.766)	86	244359			0.00- 30.00	12.29
46 Vinyl Acetate					CAS #: 108-05-4		
6.647	6.647 (0.828)	86	165077	42.0545	42.054	80.00- 120.00	100.00
6.647	6.647 (0.828)	43	2781840			0.00- 30.00	1685.18
6.647	6.647 (0.828)	42	226178			0.00- 30.00	137.01
44 1,1-Dichloroethane					CAS #: 75-34-3		
6.564	6.564 (0.817)	63	1631613	45.0519	45.052	80.00- 120.00	100.00
6.564	6.564 (0.817)	65	472824			0.00- 59.36	28.98
54 2-Butanone					CAS #: 78-93-3		
7.642	7.642 (0.952)	72	338140	38.5972	38.597	80.00- 120.00	100.00
7.642	7.642 (0.952)	43	2475855			683.12- 743.12	732.20
7.642	7.642 (0.952)	57	170185			0.00- 30.00	50.33
53 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.587	7.587 (0.945)	61	1385872	45.5254	45.525	80.00- 120.00	100.00
7.587	7.614 (0.945)	96	765543			28.01- 88.01	55.24
7.587	7.614 (0.945)	98	500263			6.29- 66.29	36.10
57 Tetrahydrofuran					CAS #: 109-99-9		
8.029	8.029 (1.000)	42	1509177	44.9948	44.995	80.00- 120.00	100.00
8.029	8.029 (1.000)	71	308941			0.00- 50.70	20.47
8.029	8.029 (1.000)	72	333304			0.00- 30.00	22.09
59 Chloroform					CAS #: 67-66-3		
8.168	8.167 (1.017)	83	1277614	43.9052	43.905	80.00- 120.00	100.00
8.168	8.167 (1.017)	85	831834			33.31- 93.31	65.11
63 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.416	8.416 (1.048)	97	1457555	43.1018	43.102	80.00- 120.00	100.00
8.416	8.416 (1.048)	99	941319			35.40- 95.40	64.58
62 Cyclohexane					CAS #: 110-82-7		
8.416	8.416 (1.048)	84	1010256	40.9850	40.985	80.00- 120.00	100.00
8.416	8.416 (1.048)	56	1865173			147.06- 207.06	184.62
8.389	8.416 (1.045)	41	1059403			72.88- 132.88	104.86
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.665	8.665 (1.079)	119	1516481	45.0232	45.023	80.00- 120.00	100.00
8.665	8.665 (1.079)	117	1597596			73.99- 133.99	105.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.108	9.107 (1.134)	57	6001035	44.9529	44.953	80.00- 120.00	100.00
9.108	9.107 (1.134)	56	2061022			0.00- 30.00	34.34
9.108	9.107 (1.134)	41	1612138			0.00- 30.00	26.86
70 Benzene					CAS #: 71-43-2		
9.080	9.080 (0.916)	78	1986830	38.1163	38.116	80.00- 120.00	100.00
9.080	9.080 (0.916)	77	474109			0.00- 30.00	23.86
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.246	9.246 (0.933)	62	1150748	47.8567	47.857	80.00- 120.00	100.00
9.246	9.246 (0.933)	64	352764			0.00- 30.00	30.66
75 Heptane					CAS #: 142-82-5		
9.495	9.495 (0.958)	100	263411	40.9768	40.977	80.00- 120.00	100.00
9.495	9.495 (0.958)	43	2159380			0.00- 30.00	819.78
9.495	9.495 (0.958)	71	718325			0.00- 30.00	272.70
80 Trichloroethene					CAS #: 79-01-6		
10.324	10.324 (1.042)	95	802165	43.4019	43.402	80.00- 120.00	100.00
10.324	10.324 (1.042)	130	876516			81.43- 141.43	109.27
10.324	10.324 (1.042)	97	517760			33.94- 93.94	64.55
83 1,2-Dichloropropane					CAS #: 78-87-5		
10.822	10.822 (1.092)	63	800332	40.0387	40.039	80.00- 120.00	100.00
10.822	10.822 (1.092)	62	581895			47.04- 107.04	72.71
10.822	10.822 (1.092)	41	649462			56.08- 116.08	81.15
85 1,4-Dioxane					CAS #: 123-91-1		
11.043	11.043 (1.114)	88	431125	39.3271	39.327	80.00- 120.00	100.00
11.043	11.043 (1.114)	58	460959			77.65- 137.65	106.92
11.043	11.043 (1.114)	57	156551			0.00- 30.00	36.31
86 Bromodichloromethane					CAS #: 75-27-4		
11.375	11.375 (1.148)	83	1183290	45.2585	45.258	80.00- 120.00	100.00
11.375	11.375 (1.148)	85	747639			34.50- 94.50	63.18
91 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.287	12.287 (1.240)	75	609662	27.1229	27.123	80.00- 120.00	100.00(R)
12.287	12.287 (1.240)	77	179039			0.76- 60.76	29.37
12.287	12.287 (1.240)	39	527779			57.06- 117.06	86.57
92 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.591	12.591 (1.271)	58	734542	42.9820	42.982	80.00- 120.00	100.00
12.591	12.591 (1.271)	43	2244593			0.00- 30.00	305.58
12.591	12.591 (1.271)	85	220043			0.00- 30.00	29.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.813	12.812 (1.293)	91	1969687	39.5897	39.590	80.00- 120.00	100.00
12.813	12.812 (1.293)	92	1235716			30.78- 90.78	62.74
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	140691	7.26549	7.265	80.00- 120.00	100.00
13.338	13.338 (0.889)	77	49876			1.74- 61.74	35.45
13.338	13.338 (0.889)	39	109161			53.76- 113.76	77.59
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.614	13.614 (0.908)	97	664482	42.0528	42.053	80.00- 120.00	100.00
13.614	13.614 (0.908)	99	398023			30.76- 90.76	59.90
13.614	13.614 (0.908)	83	533751			47.08- 107.08	80.33
102 Tetrachloroethene					CAS #: 127-18-4		
13.697	13.697 (0.913)	166	1028487	47.6457	47.646	80.00- 120.00	100.00
13.670	13.670 (0.912)	129	732285			40.95- 100.95	71.20
13.670	13.670 (0.912)	131	700652			36.23- 96.23	68.12
103 2-Hexanone					CAS #: 591-78-6		
14.002	14.001 (0.934)	58	874083	42.6263	42.626	80.00- 120.00	100.00
14.002	14.001 (0.934)	43	1954897			195.68- 255.68	223.65
14.029	14.029 (0.935)	100	138229			0.00- 30.00	15.81
105 Dibromochloromethane					CAS #: 124-48-1		
14.167	14.167 (0.945)	129	1092602	47.9741	47.974	80.00- 120.00	100.00
14.167	14.167 (0.945)	127	810011			0.00- 30.00	74.14
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.333	14.333 (0.956)	107	997267	44.3831	44.383	80.00- 120.00	100.00
14.333	14.333 (0.956)	109	957944			64.36- 124.36	96.06
109 Chlorobenzene					CAS #: 108-90-7		
15.025	15.024 (1.002)	112	1612357	41.7751	41.775	80.00- 120.00	100.00
15.025	15.024 (1.002)	114	514122			2.24- 62.24	31.89
15.025	15.024 (1.002)	77	920187			25.95- 85.95	57.07
111 Ethyl Benzene					CAS #: 100-41-4		
15.163	15.163 (1.011)	106	924318	45.4822	45.482	80.00- 120.00	100.00
15.163	15.163 (1.011)	91	2829645			0.00- 30.00	306.13
113 m,p-Xylene					CAS #: 108-38-3		
15.329	15.329 (1.022)	106	2076985	78.8578	78.858	80.00- 120.00	100.00
15.329	15.329 (1.022)	91	4101733			0.00- 30.00	197.48
114 o-Xylene					CAS #: 95-47-6		
15.854	15.854 (1.057)	106	925534	39.4177	39.418	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.854	15.854 (1.057)	91	1892051			174.60- 234.60	204.43
115 Styrene					CAS #: 100-42-5		
15.854	15.909 (1.057)	104	60110	1.87225	1.872	80.00- 120.00	100.00
15.854	15.882 (1.057)	78	126601			19.99- 79.99	210.62
118 Bromoform					CAS #: 75-25-2		
16.131	16.130 (1.076)	173	805589	41.8076	41.808	80.00- 120.00	100.00
16.131	16.130 (1.076)	171	415501			22.33- 82.33	51.58
124 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.794	16.794 (1.120)	83	1223187	39.4759	39.476	80.00- 120.00	100.00
16.794	16.794 (1.120)	85	786832			34.69- 94.69	64.33
127 4-Ethyltoluene					CAS #: 622-96-8		
16.960	16.960 (1.131)	105	3361284	48.3451	48.345	80.00- 120.00	100.00
16.960	16.960 (1.131)	120	990048			0.00- 59.12	29.45
129 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.043	17.043 (1.136)	105	2274090	40.4519	40.452	80.00- 120.00	100.00
17.043	17.043 (1.136)	120	1106603			0.00- 30.00	48.66
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.458	17.458 (1.164)	105	1564018	28.8801	28.880	80.00- 120.00	100.00(R)
17.458	17.458 (1.164)	120	739259			16.15- 76.15	47.27
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.734	17.734 (1.183)	146	1703401	50.1874	50.187	80.00- 120.00	100.00
17.734	17.734 (1.183)	148	1048807			0.00- 30.00	61.57
17.734	17.734 (1.183)	111	716833			0.00- 30.00	42.08
142 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.845	17.845 (1.190)	146	2038081	49.1943	49.194	80.00- 120.00	100.00
17.845	17.845 (1.190)	148	1293668			0.00- 30.00	63.47
17.845	17.845 (1.190)	111	725954			0.00- 30.00	35.62
144 alpha-Chlorotoluene					CAS #: 100-44-7		
17.983	17.983 (1.199)	91	2166204	49.4161	49.416	80.00- 120.00	100.00
17.983	17.983 (1.199)	126	491754			0.00- 30.00	22.70
147 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.177	18.176 (1.212)	146	1637331	48.7850	48.785	80.00- 120.00	100.00
18.177	18.176 (1.212)	148	1028420			32.20- 92.20	62.81
18.177	18.176 (1.212)	111	714619			13.98- 73.98	43.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
155 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.476	19.476 (1.299)	180	1444638	49.6709	49.671	80.00- 120.00	100.00
19.476	19.476 (1.299)	182	1351147			64.59- 124.59	93.53
156 Hexachlorobutadiene					CAS #: 87-68-3		
19.559	19.559 (1.304)	225	1040393	51.4101	51.410	80.00- 120.00	100.00
19.559	19.559 (1.304)	223	661829			33.97- 93.97	63.61
125 Propylbenzene					CAS #: 103-65-1		
16.822	16.822 (1.122)	91	3902055	46.4365	46.436	80.00- 120.00	100.00
16.822	16.822 (1.122)	120	928903			0.00- 30.00	23.81
16.822	16.822 (1.122)	105	152543			0.00- 30.00	3.91
119 Cumene					CAS #: 98-82-8		
16.324	16.324 (1.088)	105	3604635	42.6571	42.657	80.00- 120.00	100.00
16.324	16.324 (1.088)	120	970456			0.00- 30.00	26.92
16.324	16.324 (1.088)	51	589688			0.00- 30.00	16.36
157 Naphthalene					CAS #: 91-20-3		
19.670	19.669 (1.312)	128	2306642	21.0173	21.017	80.00- 120.00	100.00
19.670	19.669 (1.312)	127	316245			0.00- 30.00	13.71
11 Isopentane					CAS #: 78-78-4		
3.329	3.329 (0.415)	43	2089689	55.3868	55.387	80.00- 120.00	100.00
3.329	3.329 (0.415)	57	1265943			0.00- 30.00	60.58
3.329	3.329 (0.415)	72	101419			0.00- 30.00	4.85
7 Butane					CAS #: 106-97-8		
2.610	2.610 (0.325)	58	317137	57.0109	57.011	80.00- 120.00	100.00
2.610	2.610 (0.325)	43	2470055			0.00- 30.00	778.86
81 Methyl Cyclohexane					CAS #: 108-87-2		
10.573	10.573 (1.317)	83	1226324	40.2992	40.299	80.00- 120.00	100.00
10.573	10.573 (1.317)	98	601482			0.00- 30.00	49.05
10.573	10.573 (1.317)	55	1528280			0.00- 30.00	124.62

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 28-Dec-2006 12:56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122804.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 28-DEC-2006
Calibration Time: 12:13
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	339429	203657	475201	282179	-16.87
79 1,4-Difluorobenze	1314186	788512	1839860	1128470	-14.13
108 Chlorobenzene-d5	979072	587443	1370701	834919	-14.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

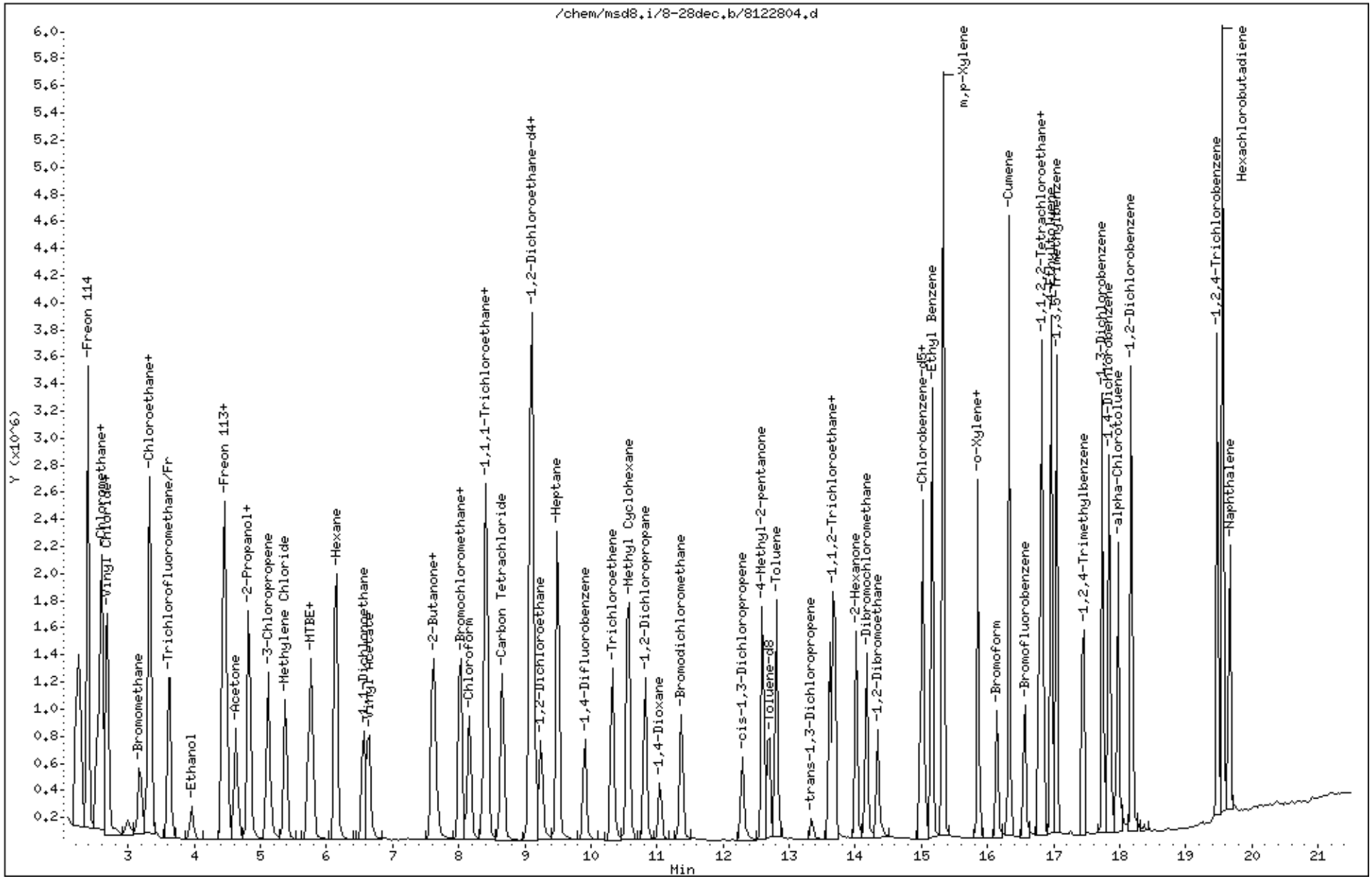
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0221

Data File: /chem/msd8.i/8-28dec.b/8122804.d
Date : 28-DEC-2006 12:41
Client ID: LCS-1
Sample Info: 50mL #1408-256

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-28dec.b/8122806.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 28-DEC-2006 13:50
Operator : JG Inst ID: msd8.i
Smp Info : 50mL #1408-303
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Meth Date : 28-Dec-2006 14:17 jgray Quant Type: ISTD
Cal Date : 15-DEC-2006 13:03 Cal File: 8121507.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2cpmd.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
* 58 Bromochloromethane					CAS #: 74-97-5		
8.029	8.029 (1.000)	130	278471	25.0000		80.00- 120.00	100.00
8.029	8.029 (1.000)	128	222569			46.37- 106.37	79.93
8.029	8.029 (1.000)	49	677337			220.97- 280.97	243.23
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.909	9.909 (1.000)	114	1115137	25.0000		80.00- 120.00	100.00
9.909	9.909 (1.000)	88	175487			0.00- 45.61	15.74
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.997	14.997 (1.000)	117	814087	25.0000		80.00- 120.00	100.00
14.997	14.997 (1.000)	82	464876			0.00- 30.00	57.10
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.108	9.107 (1.134)	65	431691	24.7924	24.792	80.00- 120.00	100.00
9.108	9.107 (1.134)	67	197590			0.00- 30.00	45.77
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.702	12.702 (1.282)	98	928658	22.6802	22.680	80.00- 120.00	100.00
12.674	12.674 (1.279)	70	102429			0.00- 30.00	11.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.702	12.702 (1.282)	100	614039			0.00- 30.00	66.12
$ 123 Bromofluorobenzene					CAS #: 460-00-4		
16.573	16.573 (1.105)	174	504117	28.1630	28.163	80.00- 120.00	100.00
16.573	16.573 (1.105)	95	612984			93.57- 153.57	121.60
16.573	16.573 (1.105)	176	493781			74.72- 134.72	97.95
115 Styrene					CAS #: 100-42-5		
15.909	15.909 (1.061)	104	1176131	37.5704	37.570	80.00- 120.00	100.00
15.909	15.882 (1.061)	78	529980			19.99- 79.99	45.06
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.338	13.338 (0.889)	75	792175	41.9559	41.956	80.00- 120.00	100.00
13.338	13.338 (0.889)	77	256901			1.74- 61.74	32.43
13.338	13.338 (0.889)	39	651023			53.76- 113.76	82.18

Report Date: 28-Dec-2006 14:17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8122806.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 28-DEC-2006
Calibration Time: 12:13
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	339429	203657	475201	278471	-17.96
79 1,4-Difluorobenze	1314186	788512	1839860	1115137	-15.15
108 Chlorobenzene-d5	979072	587443	1370701	814087	-16.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
58 Bromochloromethan	8.03	7.70	8.36	8.03	0.00
79 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
108 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 28-Dec-2006 14:17

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-28dec
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: 2cmpd.spk Quant Type: ISTD
Sublist File: 2cpmd.sub
Method File: /var/chem/msd8.i/8-28dec.b/t14qn22d.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
100 trans-1,3-Dichloro	50.000	41.956	83.91	70-130
115 Styrene	50.000	37.570	75.14	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	24.792	99.17	70-130
$ 97 Toluene-d8	25.000	22.680	90.72	70-130
$ 123 Bromofluorobenzene	25.000	28.163	112.65	70-130

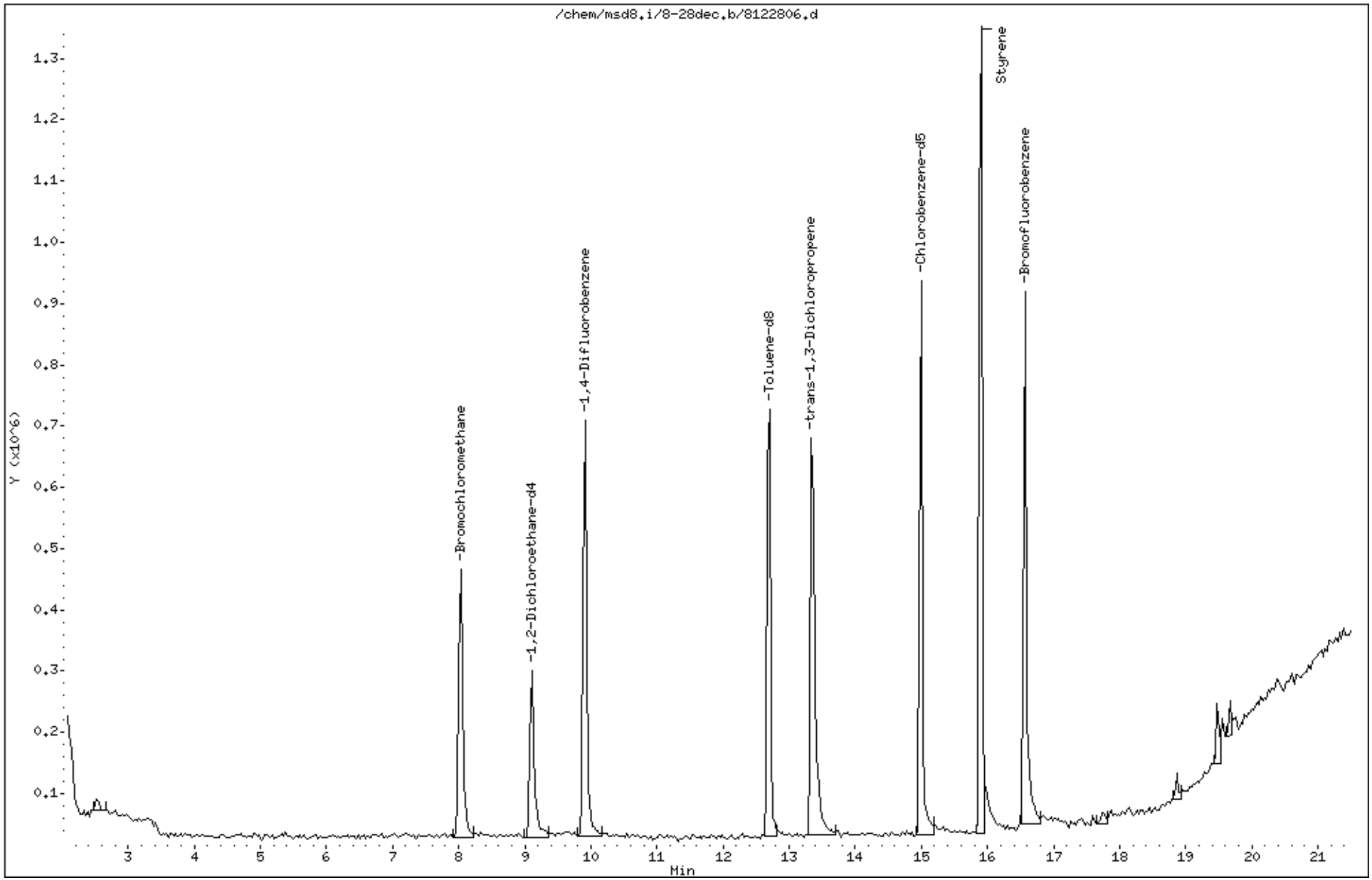
0226

Data File: /chem/msd8.i/8-28dec.b/8122806.d
Date : 28-DEC-2006 13:50
Client ID: LCS
Sample Info: 50mL #1408-303

Column phase: RTx-624

Instrument: msd8.i

Operator: JG
Column diameter: 0.53



@ Air Toxics Ltd.

MSD-8

Logbook #: 1478

0227

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.93
75	30.0 – 60.0% of mass 95	57.31
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.71
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	82.28
175	5.0 – 9.0% of mass 174	(8.04)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.42)[1]
177	5.0 – 9.0% of mass 176	(6.32)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 12/28/06

BFB Injection Time: 1146

BFB File ID: 8122802

Tekmar Purge Flow: 2

Vacuum: 12/29/06

IS/S Std.#:	1408 - 300	Exp. Date: 3/27/07
BCM	339,429	
1,4-DFB	1,314,186	
CB-d5	979,072	

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

Verify 176/174 m/z Ratio: 655085 / 1716476 · 100 = 96.42 %

12/29/06

NOAH Cart #: 815/9 **File #:** 1122815 / 1122805

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1123730\ )}{(\ 1314186\ )} \times \frac{(\ 25\ )}{(\ 0.91795\ )} =$ 23.288

Reported Result 23.288

File ID:	8122803
Compound:	Toluene-d8
Initials:	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	8122801	BFB Tune Check	4423-2787	50 ml	2 µL	1.00		12/28/06	1120		
2	✓	02	BFB Tune Check	|	|	|	|	|	|	1146		
3	✓	03	CCV # 1408-296	200 ppbv	50 ppbv	50 mL	|	|	|	1213		
4	✓	04	LCS # 1408-256	|	|	|	|	|	|	1241		
5	✓	05	CCVsp # 1408-276	|	|	|	|	|	|	1322		
6	✓	06	LCS # 1408-303	|	|	|	|	|	|	1350		2 cpd
7	X	07	Lab Blank	34027	Humid	200 mL	1.00		|	1451		
8	✓	08	Lab Blank	|	|	|	|	|	|	1519		
9	✓	09	061237-01A	23887	6.0 in Hg	200 ml	1.68	XP	↓	1659	XP/CP	

Signature

12/29/06

Date

10	✓	8122810	0612375-02A	11879	6.0"Hg – 5psi	200ml	1.68	XP	12-28-06	1741	XP/Cl	
11	✓	11	⊥ -02AA	11879	6.0"Hg – 5psi	200ml	1.68	XP		1823	XP/Cl	
12	✓	12	0612527-03A	2130	3.0"Hg – 5psi	2.5ml	17.9	XP		1859	XP/Cl	
13	X	13	-01A	34601	8.5"Hg – 5psi	0.5ml	1130	XP		1933	XP/Cl	RR 0.25ml
14	✓	14	-02A	34105	5.0"Hg – 5psi	1.5ml	323	XP		20.02	XP/Cl	
15	✓	15	-04A	35286	3.5"Hg – 5psi	200ml	2.29	XP		2033	KR	
16	✓	16	-05A	23831	3.0"Hg – 5psi	200ml	2.29	XP		2116	KR	
17	✓	17	-06A	2187	7.0"Hg – 5psi	34ml	15.5	XP		2152	KR	
18	✓	18	0612424-01A	34096	0.2 psi – 15psi	200ml	1.99	XP		2258	KR	
19	✓	19	⊥ -02A	1026	1.0 psi – 15psi	25ml	15.1	XP		2333	KR	
20	X	20	0612516-01A	33926	8.5"Hg – 5psi	1000X ~~200ml~~	1870	XP	12-29-06	0016	KR	RR 1mL (no diln)
21	✓	21	0612361-01A	35562	0.5"Hg – 5psi	200ml	1.36	XP		0058	KR	
22	✓	22	0612481-01A	SC31	3.5"Hg – 5psi	200ml	2.29	XP		0140	KR	
23	X	23	⊥ -02A	9472	3.5"Hg – 15psi	1.5ml	305 ~~300~~	XP		0218	KR	RR 15mL BAD LOAD
24	✓	24	0612500-01A	35157	2.0"Hg – 5psi	40ml	XP 12/29/06 7.2	XP		0246	KR	Diluted for NT
25	✓	25	⊥ -02A	22512	1.5"Hg – 5psi	0.5ml	564	XP		0318	KR	
26	✓	26	0612516-01A	35926	8.5"Hg-5psi	1.0ml	374	KR		0623	KR	"E" Hexane <400
27	X	27	0612481-02A	9472	3.5"Hg-15psi	15ml	30.5	KR		0451	Cl	"E" Tol.,
28	✓	28	System Blank	34027	Humid	200ml	1.00	Cl	12/29/06	0838	Cl	
29	✓	29	0612481-02A	9472	3.5"Hg-15psi	1.0ml	458	Cl		0943	Dr	
30												
31												
32												

Comments: Dr 12/29/06

Signature [signature]

Date 12/29/06

0228

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-21nova.b/8112109.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-NOV-2006 16:24
Operator : JG Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2787
Comment :
Method : /var/chem/msd8.i/8-21nova.b/bfb30.m
Meth Date : 21-Nov-2006 16:19 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		
3.721	3.748	-0.027	95	3321719			100.00- 100.00	100.00
3.721	3.748	-0.027	50	997692			15.00- 40.00	30.04
3.721	3.748	-0.027	75	1591812			30.00- 60.00	47.92
3.721	3.748	-0.027	96	222742			5.00- 9.00	6.71
3.721	3.748	-0.027	173	0			0.00- 2.00	0.00
3.721	3.748	-0.027	174	2135508			50.00- 100.00	64.29
3.721	3.748	-0.027	175	169638			5.00- 9.00	7.94
3.721	3.748	-0.027	176	2057925			95.00- 101.00	96.37
3.721	3.748	-0.027	177	132515			5.00- 9.00	6.44

Data File: /var/chem/msd8.i/8-21nova.b/8112109.d

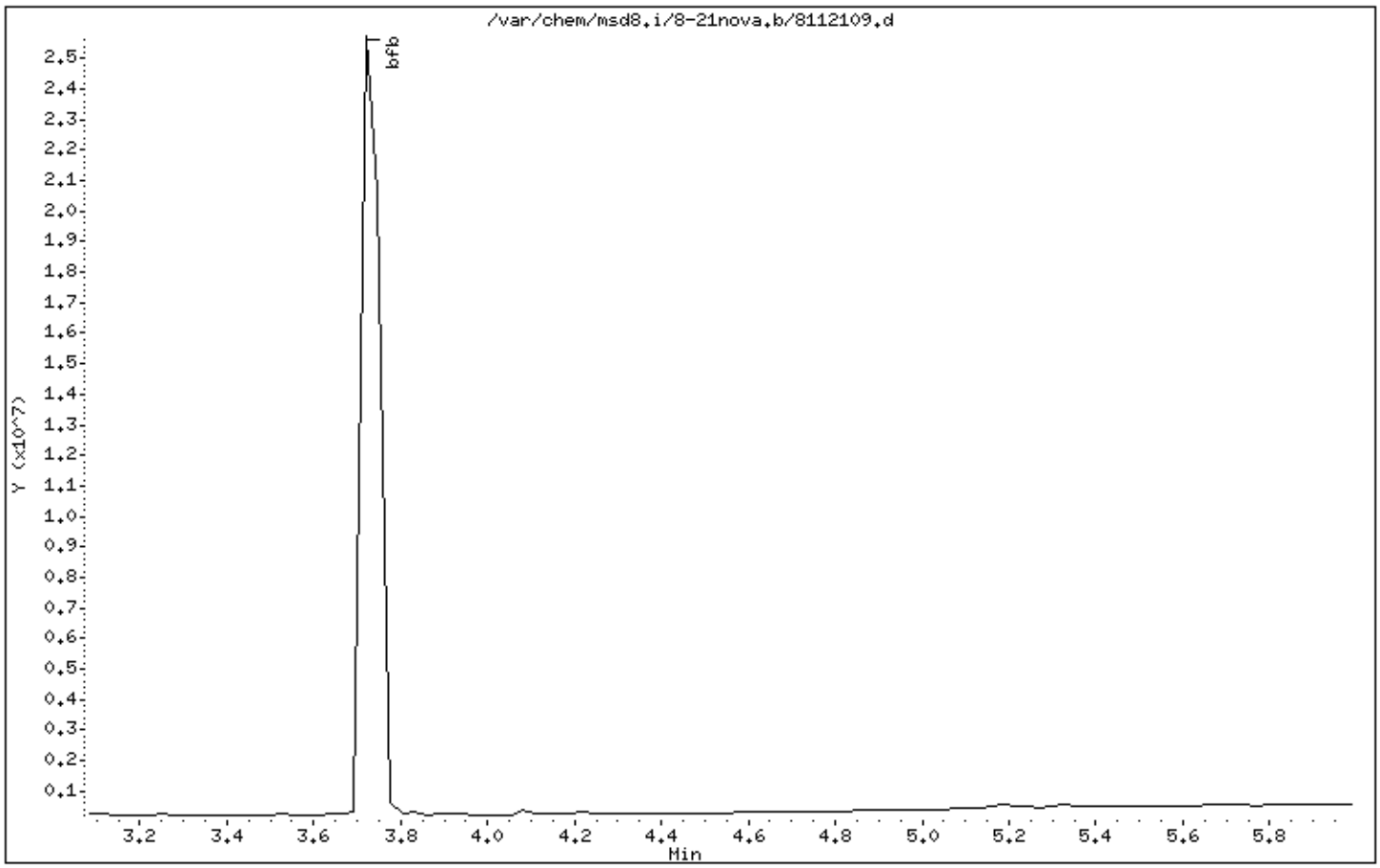
Date : 21-NOV-2006 16:24

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53



Data File: /var/chem/msd8.i/8-21nova.b/8112109.d

Date : 21-NOV-2006 16:24

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

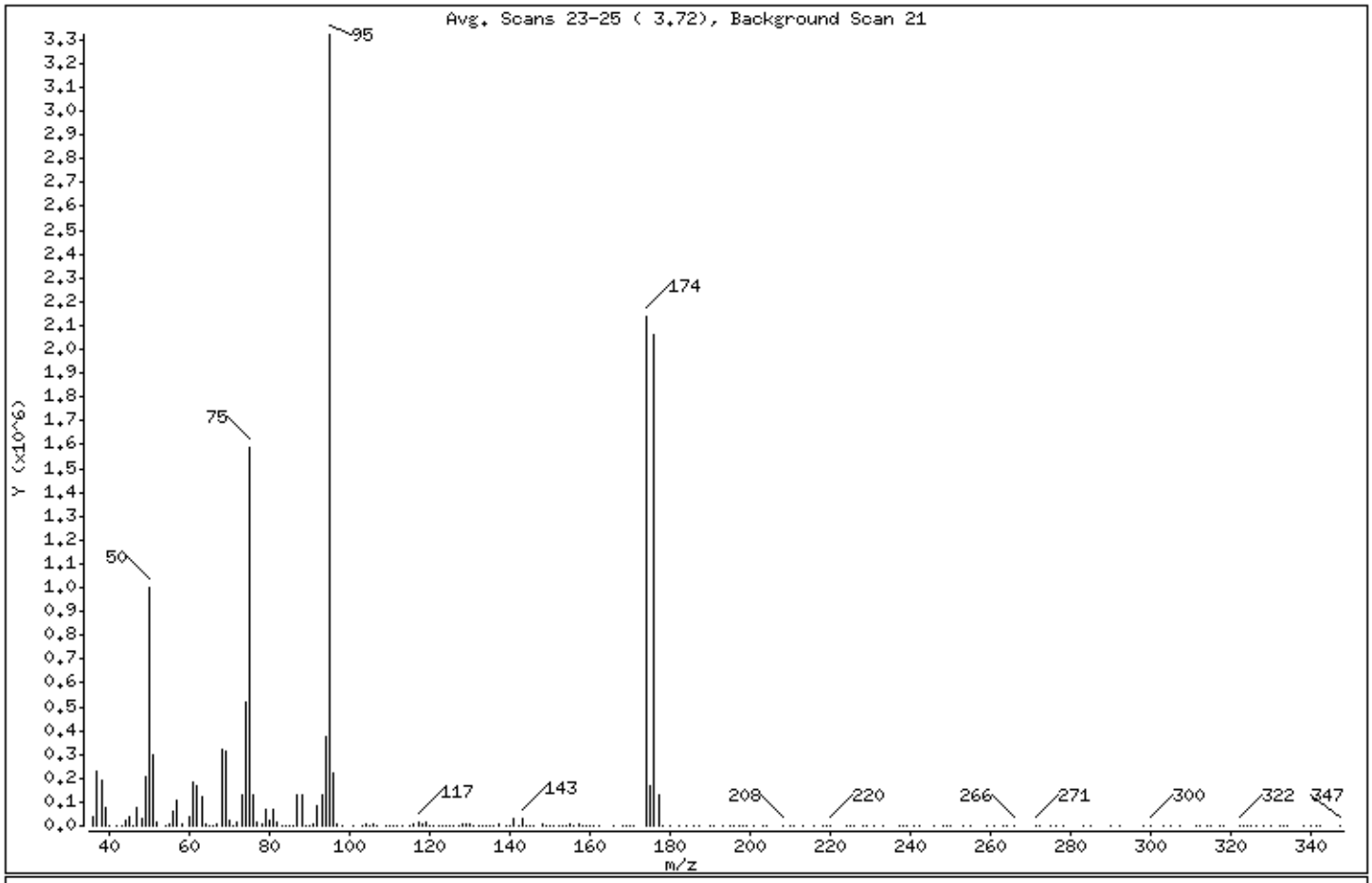
Volume Injected (uL): 2.0

Operator: JG

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	30.04
75	30.00 - 60.00% of mass 95	47.92
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	64.29
175	5.00 - 9.00% of mass 174	5.11 (7.94)
176	95.00 - 101.00% of mass 174	61.95 (96.37)
177	5.00 - 9.00% of mass 176	3.99 (6.44)

Date : 21-NOV-2006 16:24

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8112109.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 209

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	40496	92.00	87544	152.00	467	238.00	40
37.00	228544	93.00	129728	153.00	1906	239.00	186
38.00	192704	94.00	376512	154.00	1399	241.00	123
39.00	76184	95.00	3321344	155.00	5715	242.00	180
40.00	1423	96.00	222720	156.00	1733	246.00	137
42.00	648	97.00	5645	157.00	3910	248.00	345
43.00	479	98.00	324	158.00	816	249.00	45
44.00	20896	101.00	181	159.00	2872	250.00	162
45.00	39568	103.00	751	160.00	379	253.00	194
46.00	2319	104.00	9311	161.00	3111	255.00	386
47.00	72720	105.00	3345	162.00	415	259.00	398
48.00	28192	106.00	10008	166.00	465	261.00	174
49.00	208256	107.00	2271	168.00	394	263.00	30
50.00	997632	109.00	28	169.00	889	264.00	120
51.00	299200	110.00	1489	170.00	1665	266.00	541
52.00	12397	111.00	2009	171.00	515	271.00	605
54.00	384	112.00	556	174.00	2135040	272.00	50
55.00	9049	113.00	1843	175.00	169600	275.00	306
56.00	62224	115.00	2257	176.00	2057728	276.00	90
57.00	110096	116.00	9550	177.00	132480	278.00	13
58.00	4326	117.00	15181	178.00	3314	283.00	87
60.00	37208	118.00	9671	180.00	179	285.00	220
61.00	182080	119.00	12482	182.00	53	290.00	261
62.00	171648	120.00	820	184.00	265	292.00	90
63.00	122424	121.00	250	186.00	80	298.00	45
64.00	9960	122.00	137	187.00	429	300.00	312
65.00	1082	123.00	859	190.00	122	303.00	108
66.00	793	124.00	1354	191.00	697	305.00	192
67.00	8645	125.00	552	193.00	298	307.00	176
68.00	318080	126.00	367	195.00	103	311.00	171
69.00	313024	127.00	1320	196.00	313	312.00	25
70.00	22792	128.00	9024	197.00	233	314.00	74
71.00	80	129.00	4259	198.00	352	315.00	200
72.00	15924	130.00	10011	199.00	24	317.00	89
73.00	133568	131.00	3118	201.00	372	318.00	144

Date : 21-NOV-2006 16:24

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8112109.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 209

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	518080	132.00	689	203.00	46	322.00	494
75.00	1591808	133.00	72	204.00	55	323.00	259
76.00	131520	134.00	238	208.00	375	324.00	93
77.00	16174	135.00	3742	210.00	154	325.00	2
78.00	11395	136.00	720	211.00	233	326.00	131
79.00	66768	137.00	4301	213.00	166	328.00	78
80.00	20680	139.00	1147	216.00	258	330.00	9
81.00	69512	140.00	363	218.00	20	332.00	376
82.00	15079	141.00	28880	219.00	272	333.00	175
83.00	1373	142.00	3224	220.00	295	334.00	109
84.00	666	143.00	31160	224.00	57	338.00	278
85.00	14	144.00	1461	225.00	63	340.00	51
86.00	1316	145.00	2230	226.00	184	341.00	172
87.00	130136	146.00	3432	228.00	110	342.00	12
88.00	126288	148.00	6273	229.00	107	347.00	168
89.00	665	149.00	1741	231.00	145		
90.00	393	150.00	2897	233.00	205		
91.00	9828	151.00	207	237.00	146		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-22nov.b/8112201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-NOV-2006 11:04
Operator : JG Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2787
Comment :
Method : /var/chem/msd8.i/8-22nov.b/bfb30.m
Meth Date : 22-Nov-2006 10:58 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		
3.748	3.748	0.000	95	3017478			100.00- 100.00	100.00
3.748	3.748	0.000	50	915100			15.00- 40.00	30.33
3.748	3.748	0.000	75	1448241			30.00- 60.00	48.00
3.748	3.748	0.000	96	198710			5.00- 9.00	6.59
3.748	3.748	0.000	173	0			0.00- 2.00	0.00
3.748	3.748	0.000	174	1988191			50.00- 100.00	65.89
3.748	3.748	0.000	175	156552			5.00- 9.00	7.87
3.748	3.748	0.000	176	1890766			95.00- 101.00	95.10
3.748	3.748	0.000	177	122404			5.00- 9.00	6.47

Data File: /chem/msd8.i/8-22nov.b/8112201.d

Date : 22-NOV-2006 11:04

Client ID: BFB

Instrument: msd8.i

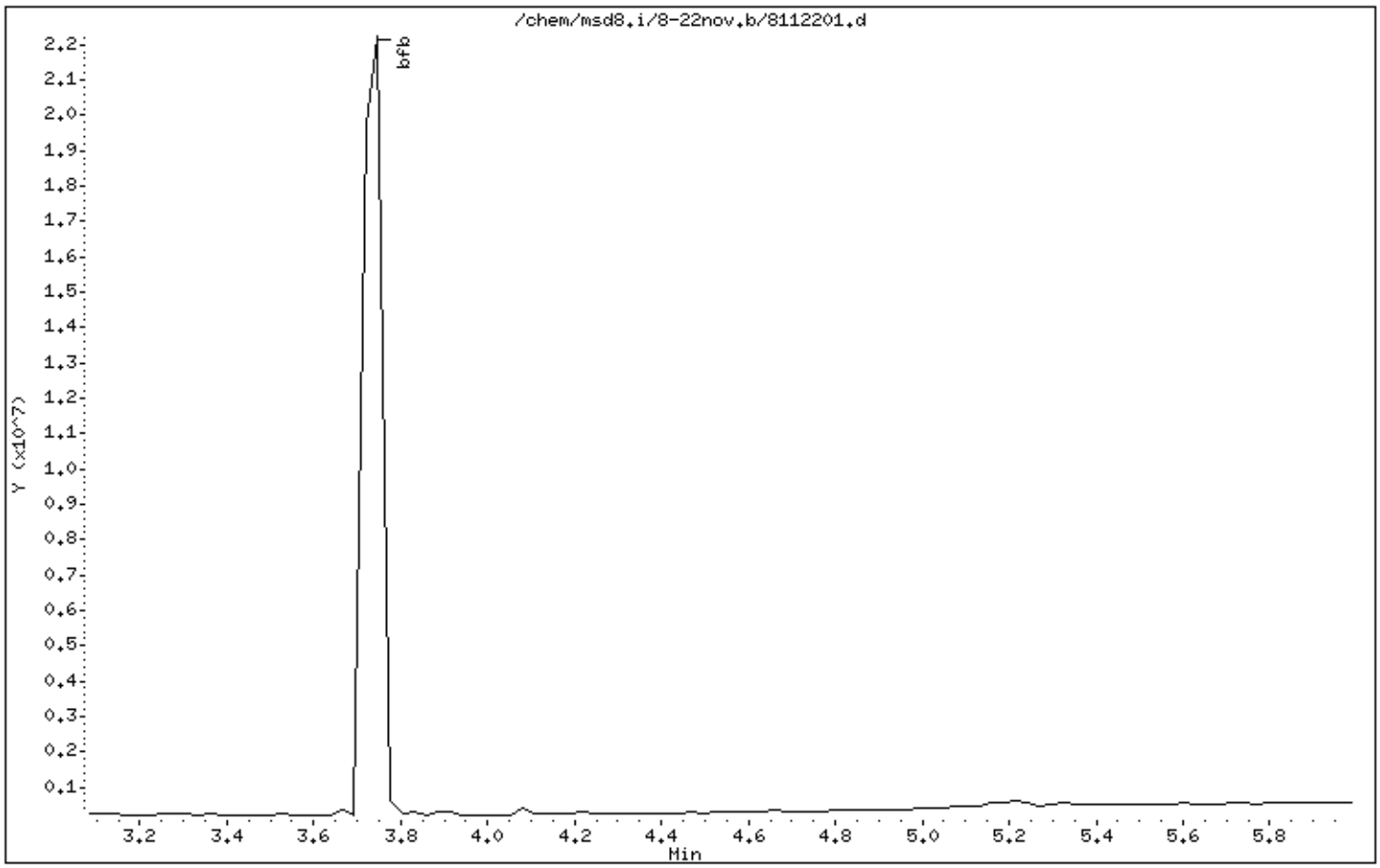
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: JG

Column phase:

Column diameter: 0.53



Data File: /chem/msd8.i/8-22nov.b/8112201.d

Date : 22-NOV-2006 11:04

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

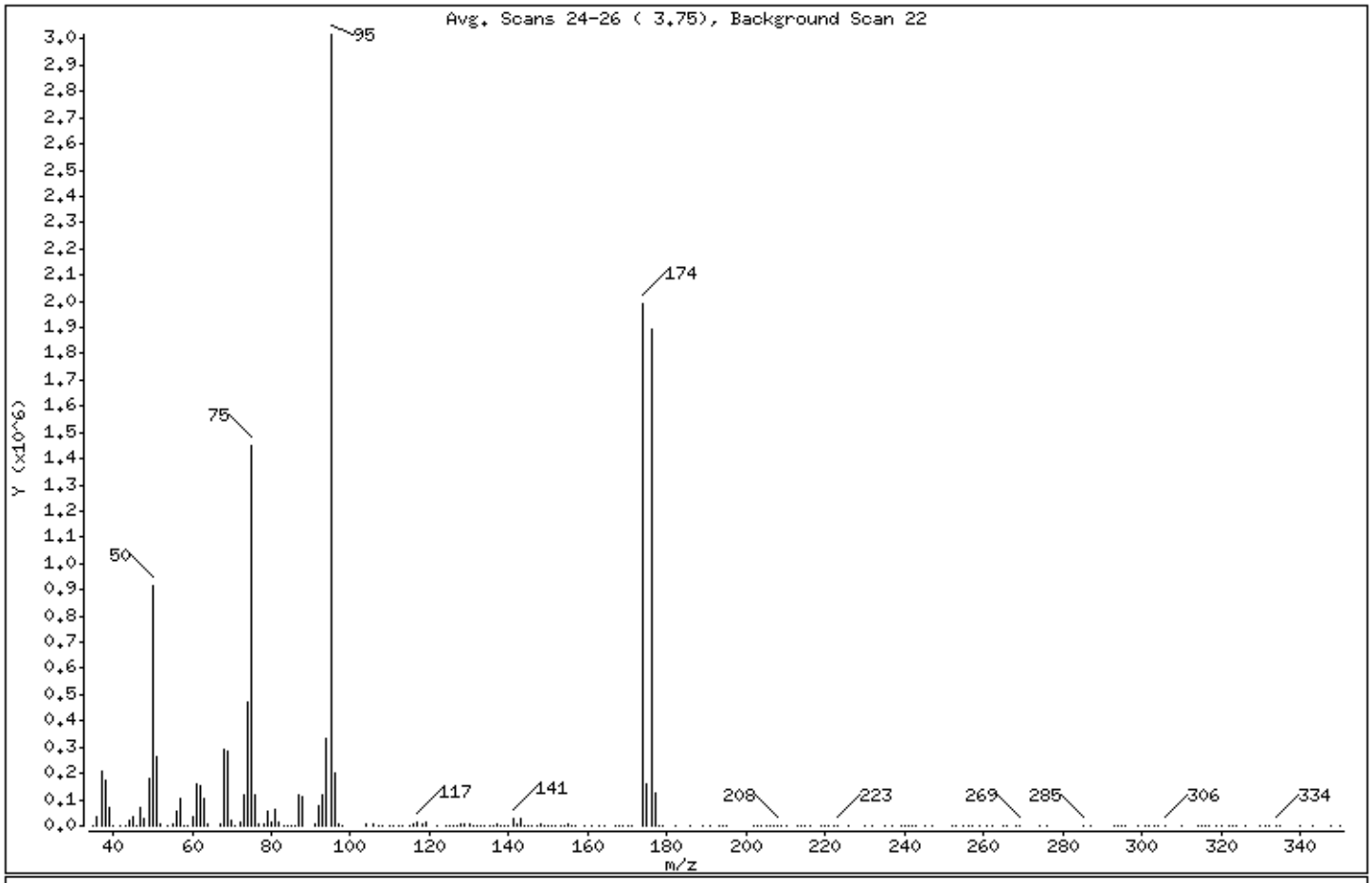
Volume Injected (uL): 2.0

Operator: JG

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	30.33
75	30.00 - 60.00% of mass 95	48.00
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	65.89
175	5.00 - 9.00% of mass 174	5.19 (7.87)
176	95.00 - 101.00% of mass 174	62.66 (95.10)
177	5.00 - 9.00% of mass 176	4.06 (6.47)

Data File: /chem/msd8.i/8-22nov.b/8112201.d

Date : 22-NOV-2006 11:04

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: JG

Column phase:

Column diameter: 0.53

Data File: 8112201.d
Spectrum: Avg. Scans 24-26 (3.75), Background Scan 22
Location of Maximum: 95.00
Number of points: 204

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	232	93.00	119904	156.00	731	245.00	76
36.00	36720	94.00	336384	157.00	3179	247.00	210
37.00	205056	95.00	3017216	159.00	2304	252.00	298
38.00	175616	96.00	198656	161.00	3342	253.00	115
39.00	68816	97.00	6093	163.00	854	255.00	437
40.00	1596	98.00	48	164.00	197	256.00	156
42.00	368	104.00	7037	167.00	891	257.00	197
43.00	1516	106.00	5488	168.00	597	259.00	192
44.00	23544	107.00	1662	169.00	1312	261.00	339
45.00	35536	108.00	781	170.00	32	262.00	204
46.00	2774	110.00	586	171.00	2054	265.00	519
47.00	67600	111.00	941	174.00	1988096	266.00	27
48.00	25864	112.00	694	175.00	156544	268.00	553
49.00	182336	113.00	1505	176.00	1890304	269.00	1148
50.00	915072	115.00	1504	177.00	122400	274.00	315
51.00	260416	116.00	7971	178.00	2904	276.00	249
52.00	8881	117.00	15507	179.00	846	285.00	500
54.00	351	118.00	8086	182.00	139	287.00	344
55.00	10236	119.00	11183	186.00	73	293.00	388
56.00	53632	122.00	238	189.00	255	294.00	12
57.00	102608	124.00	912	191.00	854	295.00	385
58.00	2781	125.00	845	193.00	254	296.00	329
59.00	529	126.00	340	194.00	298	299.00	171
60.00	34536	127.00	793	195.00	73	301.00	352
61.00	159040	128.00	8120	202.00	245	302.00	292
62.00	153728	129.00	3530	203.00	92	303.00	213
63.00	107400	130.00	8544	204.00	112	304.00	139
64.00	9378	131.00	3202	205.00	458	306.00	716
67.00	8787	132.00	568	206.00	49	310.00	239
68.00	288512	133.00	876	207.00	200	314.00	307
69.00	284608	134.00	1027	208.00	1075	315.00	78
70.00	19080	135.00	3289	209.00	749	316.00	303
71.00	685	136.00	471	210.00	37	317.00	462
72.00	12355	137.00	3580	213.00	147	319.00	150
73.00	120552	138.00	347	214.00	117	320.00	300

Date : 22-NOV-2006 11:04

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8112201.d
Spectrum: Avg. Scans 24-26 (3.75), Background Scan 22
Location of Maximum: 95.00
Number of points: 204

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	471680	139.00	808	215.00	92	322.00	290
75.00	1447936	140.00	1920	216.00	432	323.00	27
76.00	118520	141.00	26296	219.00	47	324.00	60
77.00	8022	142.00	3926	220.00	152	326.00	10
78.00	5672	143.00	25696	221.00	99	330.00	244
79.00	52432	144.00	1290	222.00	69	331.00	293
80.00	17072	145.00	1947	223.00	293	332.00	139
81.00	62136	146.00	3374	226.00	169	334.00	418
82.00	13024	147.00	1376	230.00	87	335.00	383
83.00	1027	148.00	5450	232.00	258	340.00	75
84.00	509	149.00	1174	235.00	1	343.00	261
85.00	138	150.00	1489	237.00	20	348.00	185
86.00	3026	151.00	568	239.00	20	350.00	128
87.00	118696	152.00	953	240.00	247		
88.00	112880	153.00	1412	241.00	51		
91.00	6446	154.00	1796	242.00	187		
92.00	75992	155.00	5324	243.00	81		

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-2006 10:28
Operator : JG Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2787
Comment :
Method : /var/chem/msd8.i/8-27nov.b/bfb30.m
Meth Date : 27-Nov-2006 10:23 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	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	
3.720	3.748	-0.028	95	2826722			100.00- 100.00	100.00
3.720	3.748	-0.028	50	854150			15.00- 40.00	30.22
3.720	3.748	-0.028	75	1364510			30.00- 60.00	48.27
3.720	3.748	-0.028	96	185485			5.00- 9.00	6.56
3.720	3.748	-0.028	173	0			0.00- 2.00	0.00
3.720	3.748	-0.028	174	1884768			50.00- 100.00	66.68
3.720	3.748	-0.028	175	148625			5.00- 9.00	7.89
3.720	3.748	-0.028	176	1816125			95.00- 101.00	96.36
3.720	3.748	-0.028	177	118962			5.00- 9.00	6.55

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

Date : 27-NOV-2006 10:28

Client ID: BFB

Instrument: msd8.i

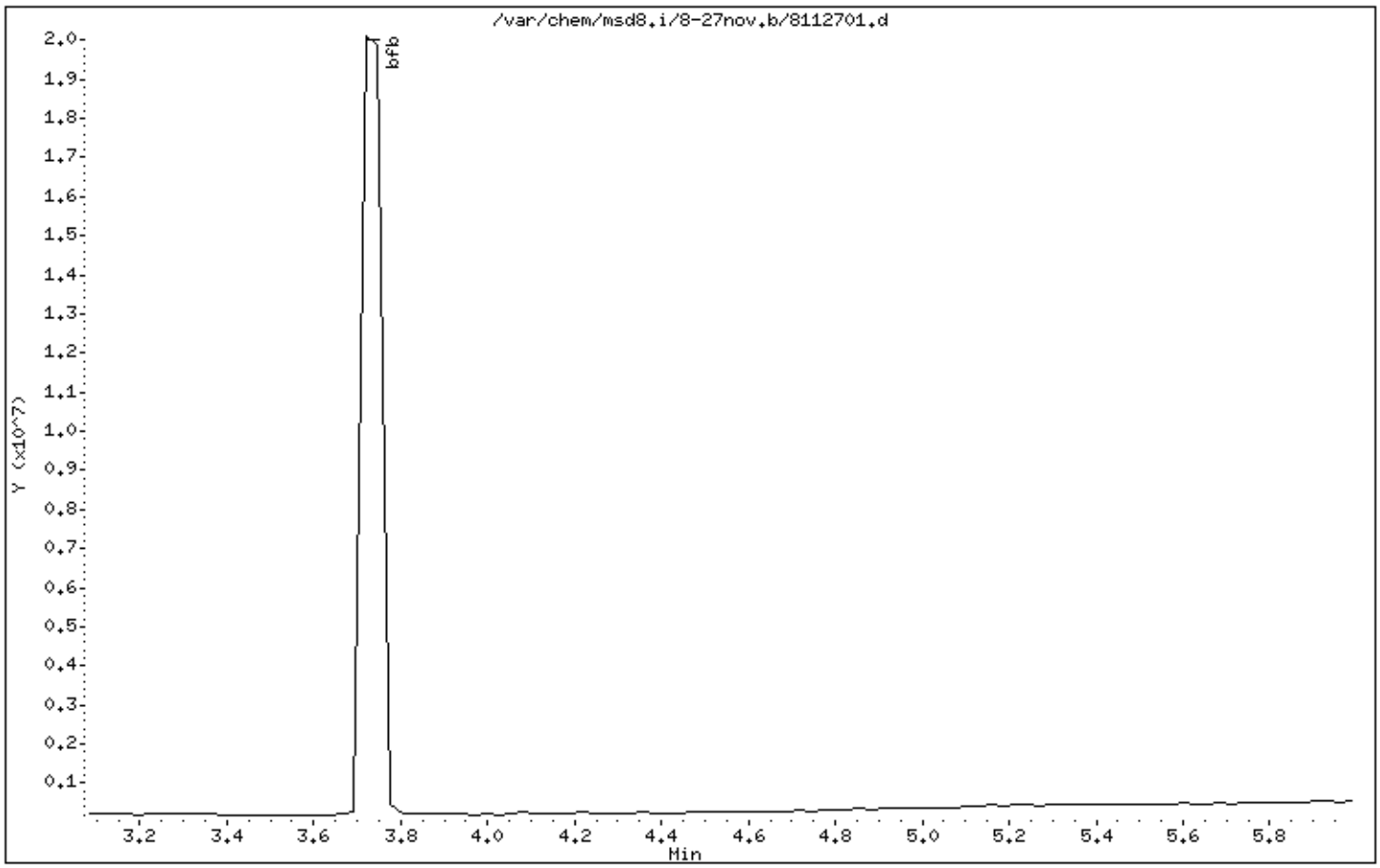
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: JG

Column phase:

Column diameter: 0.53



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

Date : 27-NOV-2006 10:28

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

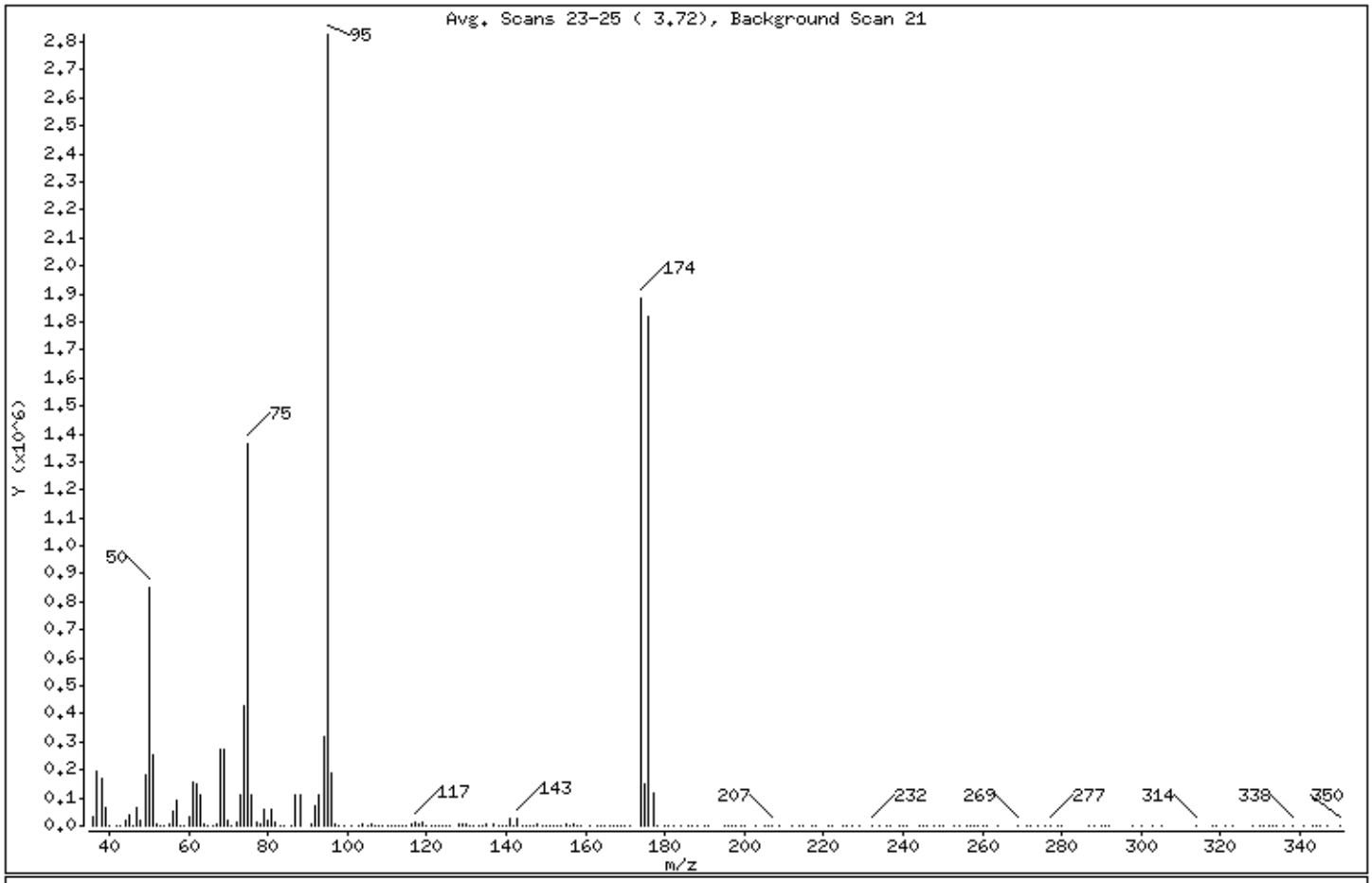
Volume Injected (uL): 2.0

Operator: JG

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	30.22
75	30.00 - 60.00% of mass 95	48.27
96	5.00 - 9.00% of mass 95	6.56
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	66.68
175	5.00 - 9.00% of mass 174	5.26 (7.89)
176	95.00 - 101.00% of mass 174	64.25 (96.36)
177	5.00 - 9.00% of mass 176	4.21 (6.55)

Date : 27-NOV-2006 10:28

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8112701.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	34720	96.00	185472	156.00	1911	241.00	14
37.00	192000	97.00	5353	157.00	4002	244.00	107
38.00	166720	98.00	103	158.00	361	245.00	81
39.00	64448	99.00	46	159.00	2956	246.00	199
40.00	616	101.00	278	161.00	2354	248.00	70
42.00	105	103.00	1189	163.00	5	249.00	356
43.00	1118	104.00	8740	164.00	250	250.00	120
44.00	22336	105.00	1548	165.00	384	253.00	215
45.00	37088	106.00	8567	166.00	113	254.00	168
46.00	2611	107.00	2491	167.00	544	256.00	40
47.00	66120	108.00	179	168.00	893	257.00	290
48.00	22712	109.00	395	169.00	567	258.00	126
49.00	181184	110.00	1344	170.00	2208	259.00	19
50.00	854144	111.00	1567	171.00	377	260.00	524
51.00	253888	112.00	1152	174.00	1884672	261.00	566
52.00	9677	113.00	1501	175.00	148608	264.00	100
53.00	200	114.00	240	176.00	1816064	269.00	683
54.00	325	115.00	1887	177.00	118960	271.00	369
55.00	9127	116.00	9043	178.00	3147	272.00	20
56.00	52560	117.00	15610	180.00	134	274.00	291
57.00	93368	118.00	5857	181.00	246	276.00	280
58.00	2458	119.00	11527	182.00	68	277.00	371
59.00	470	120.00	385	184.00	256	279.00	77
60.00	30904	121.00	729	186.00	219	280.00	180
61.00	157312	122.00	365	187.00	94	287.00	12
62.00	147648	123.00	508	188.00	206	288.00	345
63.00	107312	124.00	1516	190.00	236	290.00	89
64.00	9296	125.00	1041	191.00	15	291.00	162
65.00	1068	126.00	22	195.00	71	292.00	81
66.00	443	128.00	7316	196.00	392	298.00	355
67.00	3773	129.00	3322	197.00	42	300.00	313
68.00	274624	130.00	8044	198.00	119	303.00	69
69.00	276032	131.00	3145	199.00	178	305.00	130
70.00	18224	132.00	163	200.00	201	314.00	365
71.00	385	133.00	1564	203.00	330	318.00	208

Date : 27-NOV-2006 10:28

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8112701.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	13473	134.00	187	205.00	19	319.00	279
73.00	108576	135.00	4252	206.00	467	321.00	81
74.00	431936	137.00	3347	207.00	1234	323.00	193
75.00	1364480	138.00	428	209.00	786	328.00	37
76.00	111384	139.00	1304	212.00	248	330.00	245
77.00	14575	140.00	508	214.00	118	331.00	31
78.00	7783	141.00	26200	215.00	240	332.00	264
79.00	57640	142.00	2433	217.00	185	333.00	230
80.00	17208	143.00	26776	218.00	69	334.00	208
81.00	58376	144.00	882	221.00	34	336.00	114
82.00	11285	145.00	1881	222.00	461	338.00	309
83.00	857	146.00	2342	225.00	63	341.00	3
84.00	173	147.00	1081	226.00	100	343.00	260
86.00	1551	148.00	5285	227.00	605	344.00	68
87.00	112472	149.00	1678	229.00	307	345.00	116
88.00	110680	150.00	2363	232.00	674	347.00	212
91.00	7656	151.00	546	234.00	177	350.00	158
92.00	72720	152.00	1454	236.00	459		
93.00	109704	153.00	1541	237.00	19		
94.00	321088	154.00	794	239.00	479		
95.00	2826240	155.00	4214	240.00	178		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-14dec.b/8121401.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 14-DEC-2006 09:23
Operator : ea Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2787
Comment :
Method : /var/chem/msd8.i/8-14dec.b/bfb30.m
Meth Date : 14-Dec-2006 09:18 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	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	
3.721	3.748	-0.027	95	1942332			100.00- 100.00	100.00
3.721	3.748	-0.027	50	607408			15.00- 40.00	31.27
3.721	3.748	-0.027	75	946813			30.00- 60.00	48.75
3.721	3.748	-0.027	96	129055			5.00- 9.00	6.64
3.721	3.748	-0.027	173	0			0.00- 2.00	0.00
3.721	3.748	-0.027	174	1518889			50.00- 100.00	78.20
3.721	3.748	-0.027	175	119396			5.00- 9.00	7.86
3.721	3.748	-0.027	176	1456628			95.00- 101.00	95.90
3.721	3.748	-0.027	177	94331			5.00- 9.00	6.48

Data File: /var/chem/msd8.i/8-14dec.b/8121401.d

Date : 14-DEC-2006 09:23

Client ID: BFB

Instrument: msd8.i

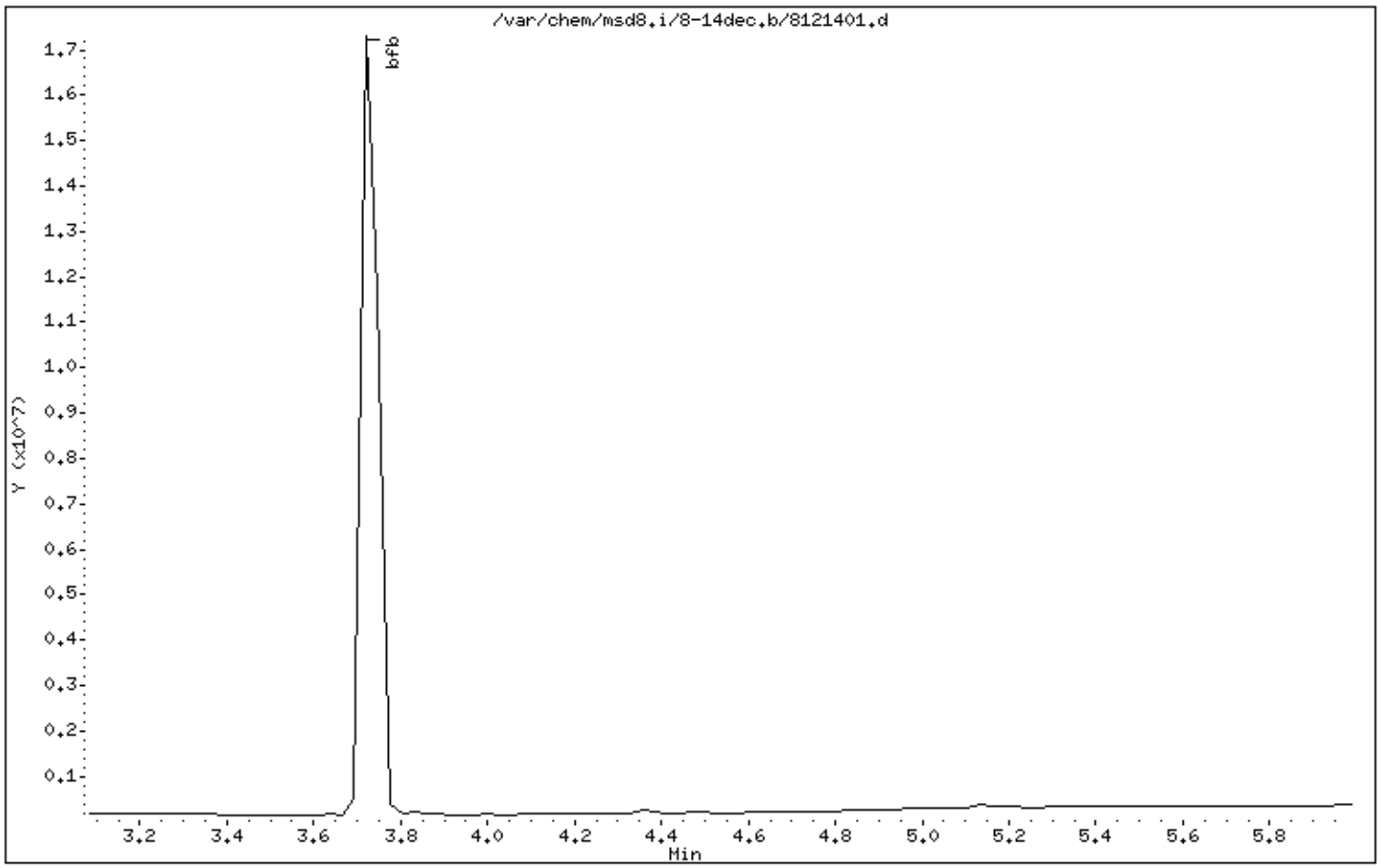
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: ea

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-14dec.b/8121401.d

Date : 14-DEC-2006 09:23

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

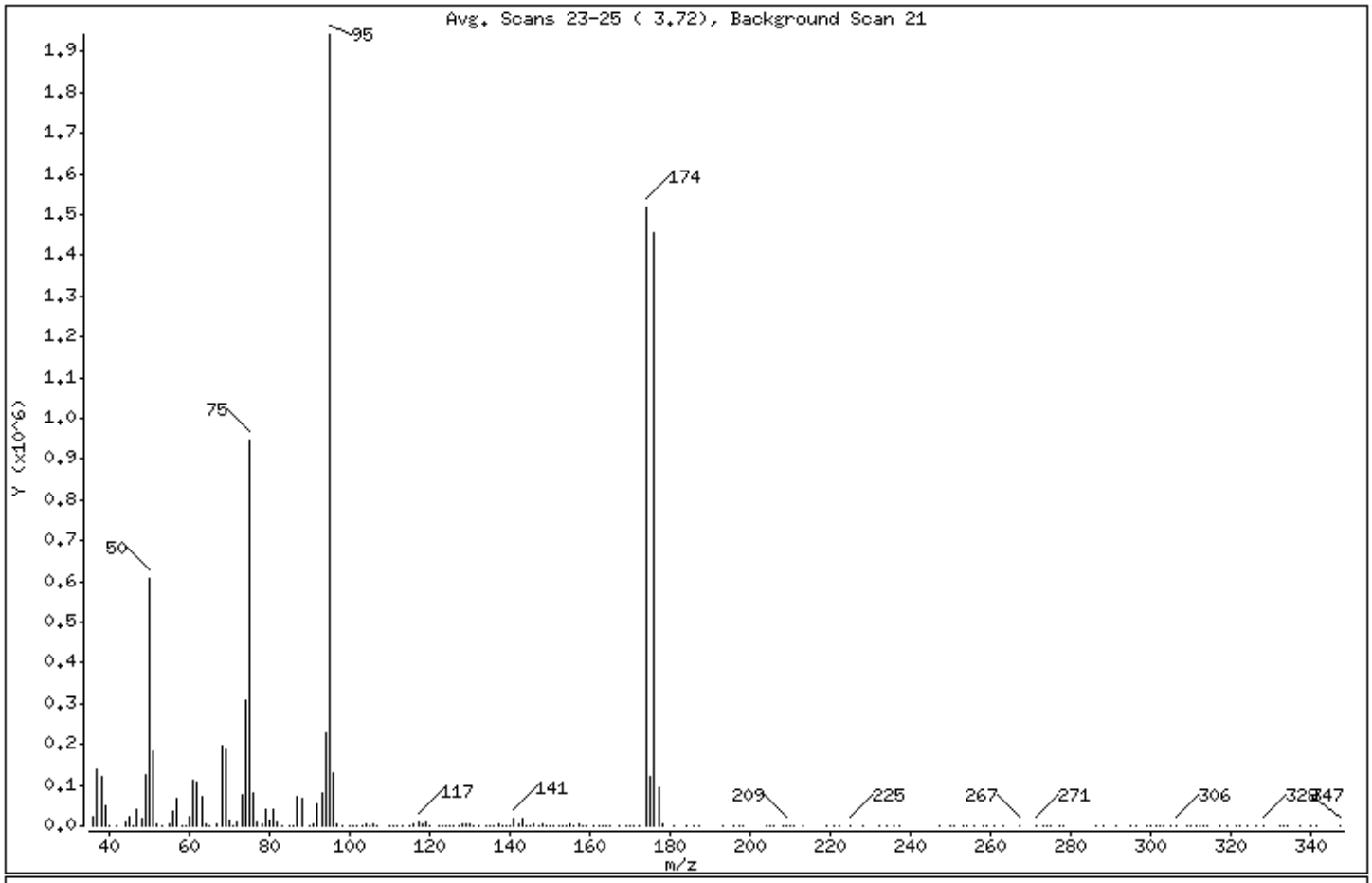
Volume Injected (uL): 2.0

Operator: ea

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	31.27
75	30.00 - 60.00% of mass 95	48.75
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	78.20
175	5.00 - 9.00% of mass 174	6.15 (7.86)
176	95.00 - 101.00% of mass 174	74.99 (95.90)
177	5.00 - 9.00% of mass 176	4.86 (6.48)

Date : 14-DEC-2006 09:23

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ea

Column phase: Column diameter: 0.53

Data File: 8121401.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	23672	93.00	79440	150.00	2107	250.00	88
37.00	136640	94.00	229312	151.00	536	251.00	504
38.00	119896	95.00	1942016	152.00	865	253.00	438
39.00	46912	96.00	129048	153.00	1597	254.00	312
40.00	1743	97.00	3643	154.00	1112	256.00	4
42.00	831	98.00	495	155.00	4642	258.00	4
44.00	9637	100.00	47	156.00	113	259.00	99
45.00	22944	101.00	525	157.00	2335	261.00	248
46.00	1261	102.00	243	158.00	446	263.00	250
47.00	39688	103.00	910	159.00	2131	267.00	600
48.00	18096	104.00	6490	161.00	1890	271.00	423
49.00	124880	105.00	2079	162.00	352	273.00	84
50.00	607360	106.00	6138	163.00	404	274.00	84
51.00	184960	107.00	1423	164.00	260	275.00	147
52.00	6530	110.00	502	165.00	68	277.00	102
53.00	268	111.00	1448	167.00	568	278.00	229
55.00	6230	112.00	517	169.00	526	286.00	68
56.00	35560	113.00	1089	170.00	1055	288.00	138
57.00	66168	115.00	1249	171.00	804	291.00	398
58.00	2089	116.00	5730	172.00	1115	295.00	159
59.00	684	117.00	9723	174.00	1518592	296.00	170
60.00	22336	118.00	4166	175.00	119392	299.00	218
61.00	110440	119.00	8089	176.00	1456128	300.00	78
62.00	105152	120.00	487	177.00	94328	301.00	73
63.00	73568	122.00	225	178.00	2615	302.00	69
64.00	6535	123.00	617	181.00	499	303.00	211
65.00	227	124.00	698	184.00	232	305.00	178
67.00	3385	125.00	571	186.00	88	306.00	303
68.00	197632	126.00	909	187.00	389	309.00	112
69.00	187776	127.00	686	193.00	111	310.00	76
70.00	13275	128.00	5029	196.00	147	311.00	155
71.00	354	129.00	2464	197.00	252	312.00	85
72.00	10428	130.00	6002	198.00	149	313.00	80
73.00	77840	131.00	2043	204.00	83	314.00	103
74.00	309632	132.00	221	205.00	362	317.00	106

Date : 14-DEC-2006 09:23

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ea

Column phase: Column diameter: 0.53

Data File: 8121401.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	946752	134.00	331	206.00	160	319.00	92
76.00	79024	135.00	2102	208.00	401	321.00	77
77.00	9490	136.00	486	209.00	503	322.00	334
78.00	5880	137.00	3337	210.00	94	324.00	340
79.00	39792	138.00	1000	211.00	105	326.00	169
80.00	13845	139.00	93	213.00	272	328.00	443
81.00	40384	140.00	1777	219.00	90	332.00	95
82.00	8291	141.00	19384	221.00	128	333.00	74
83.00	1289	142.00	2724	222.00	128	334.00	221
85.00	11	143.00	19216	225.00	376	337.00	72
86.00	1015	144.00	1259	228.00	173	340.00	67
87.00	71656	145.00	1170	232.00	205	341.00	144
88.00	67992	146.00	2940	234.00	290	347.00	187
90.00	97	147.00	813	236.00	328		
91.00	5318	148.00	3709	237.00	6		
92.00	52000	149.00	1464	247.00	196		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-15dec.b/8121501.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-DEC-2006 09:40
Operator : ea Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2787
Comment :
Method : /var/chem/msd8.i/8-15dec.b/bfb30.m
Meth Date : 15-Dec-2006 09:35 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		
3.721	3.748	-0.027	95	2323778			100.00- 100.00	100.00
3.721	3.748	-0.027	50	754102			15.00- 40.00	32.45
3.721	3.748	-0.027	75	1178311			30.00- 60.00	50.71
3.721	3.748	-0.027	96	154609			5.00- 9.00	6.65
3.721	3.748	-0.027	173	0			0.00- 2.00	0.00
3.721	3.748	-0.027	174	1840543			50.00- 100.00	79.20
3.721	3.748	-0.027	175	146781			5.00- 9.00	7.97
3.721	3.748	-0.027	176	1773882			95.00- 101.00	96.38
3.721	3.748	-0.027	177	110001			5.00- 9.00	6.20

Data File: /var/chem/msd8.i/8-15dec.b/8121501.d

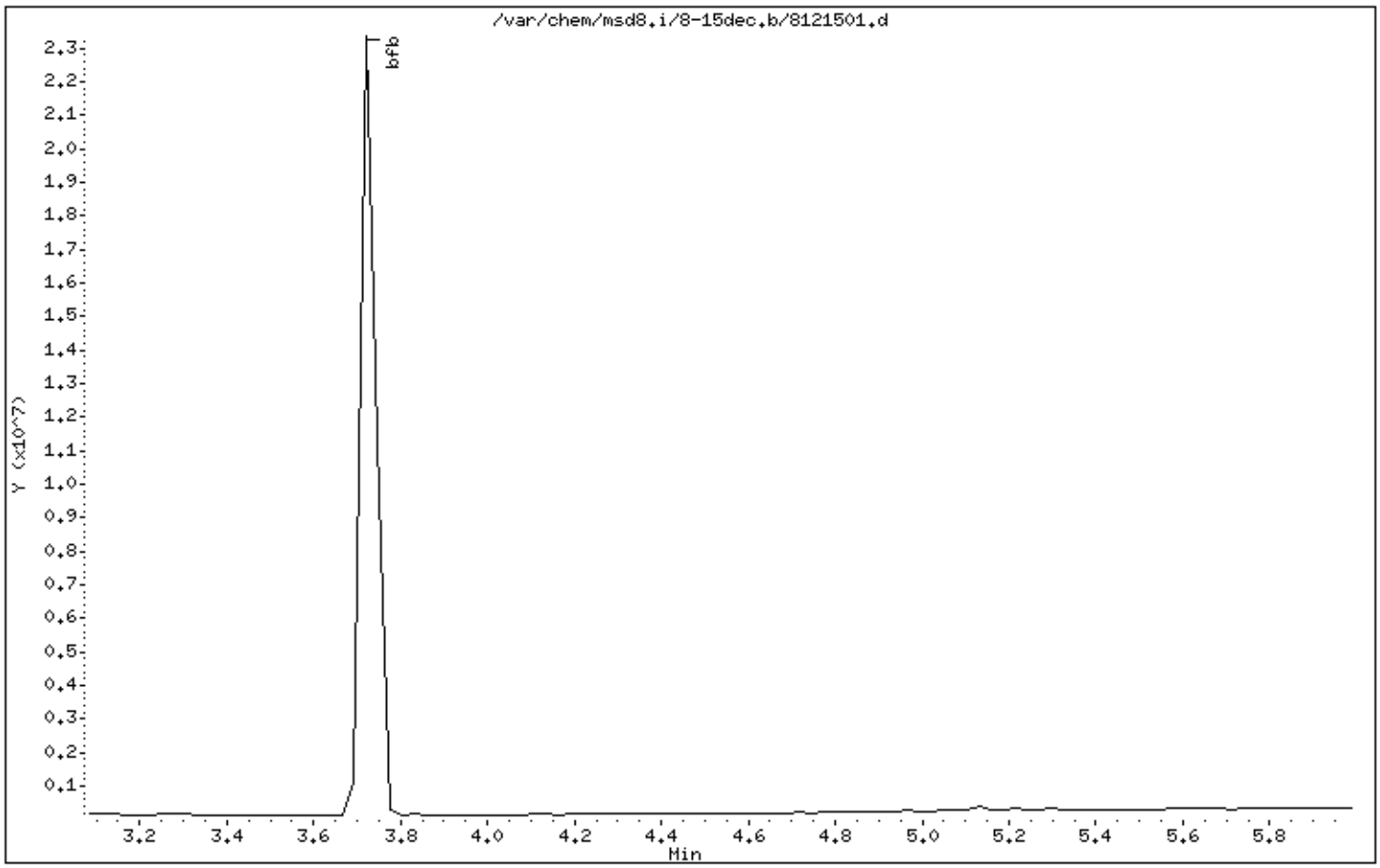
Date : 15-DEC-2006 09:40

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ea

Column phase: Column diameter: 0.53



Data File: /var/chem/msd8.i/8-15dec.b/8121501.d

Date : 15-DEC-2006 09:40

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

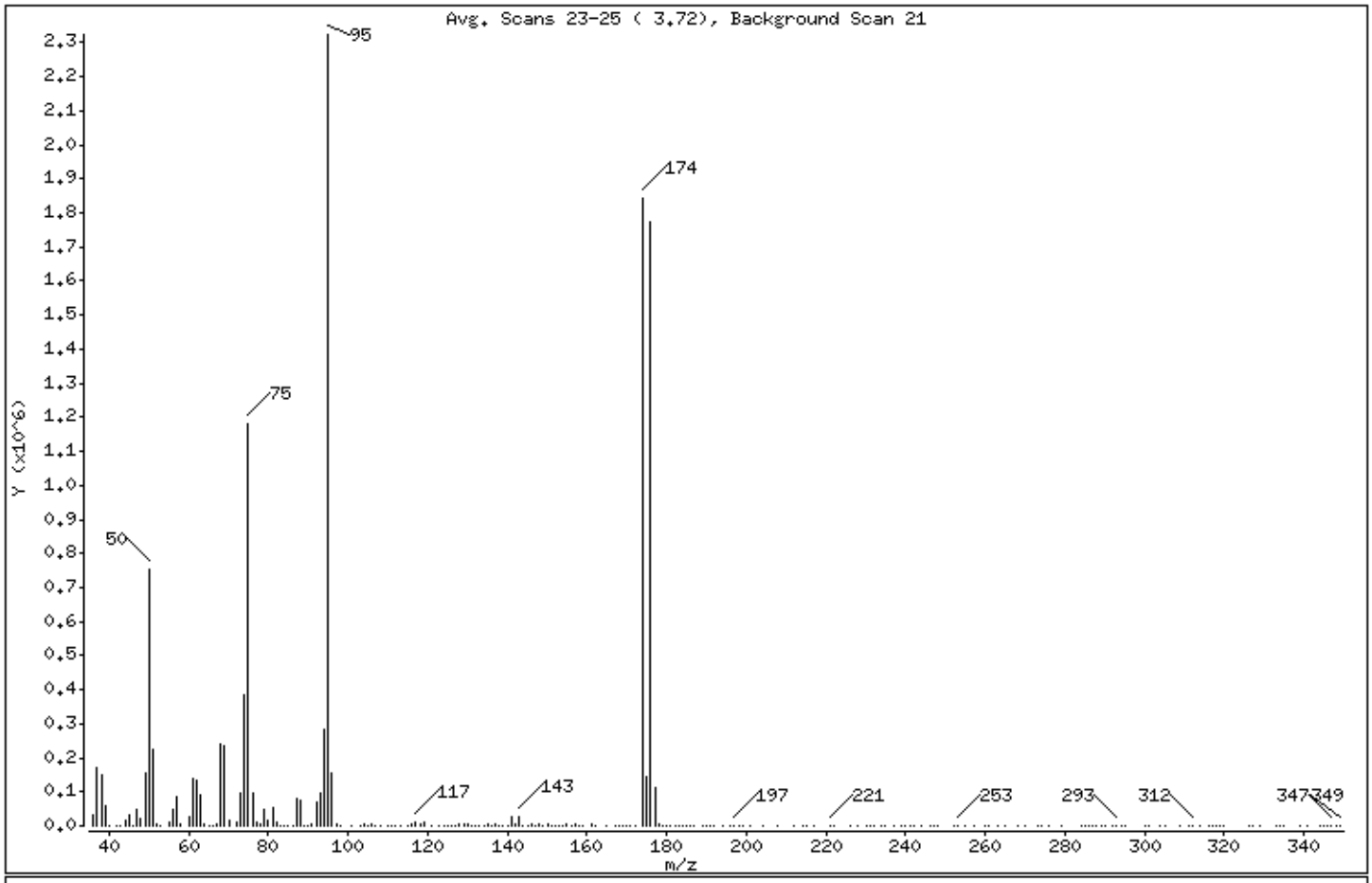
Volume Injected (uL): 2.0

Operator: ea

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	32.45
75	30.00 - 60.00% of mass 95	50.71
96	5.00 - 9.00% of mass 95	6.65
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.20
175	5.00 - 9.00% of mass 174	6.32 (7.97)
176	95.00 - 101.00% of mass 174	76.34 (96.38)
177	5.00 - 9.00% of mass 176	4.73 (6.20)

Date : 15-DEC-2006 09:40

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ea

Column phase: Column diameter: 0.53

Data File: 8121501.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	30056	96.00	154560	159.00	2625	247.00	75
37.00	169856	97.00	4345	161.00	2946	248.00	81
38.00	148544	98.00	23	162.00	372	252.00	28
39.00	56104	101.00	523	165.00	462	253.00	469
40.00	865	103.00	973	167.00	246	255.00	95
42.00	90	104.00	6566	168.00	901	257.00	84
43.00	6	105.00	2245	169.00	308	260.00	321
44.00	16568	106.00	6699	170.00	2049	261.00	54
45.00	31768	107.00	1564	171.00	80	263.00	334
46.00	1917	108.00	560	172.00	2142	265.00	79
47.00	50128	110.00	1223	174.00	1840128	268.00	348
48.00	21504	111.00	989	175.00	146752	270.00	258
49.00	155072	112.00	772	176.00	1773568	273.00	86
50.00	754048	113.00	1919	177.00	110000	274.00	119
51.00	223744	115.00	1868	178.00	2753	276.00	76
52.00	7639	116.00	7370	179.00	329	279.00	258
53.00	579	117.00	11916	180.00	254	284.00	253
55.00	9168	118.00	6987	181.00	281	285.00	96
56.00	48632	119.00	10717	182.00	252	286.00	229
57.00	82944	121.00	303	183.00	109	287.00	71
58.00	2931	123.00	802	184.00	163	288.00	183
60.00	26576	124.00	518	185.00	105	289.00	81
61.00	137216	125.00	421	186.00	274	290.00	73
62.00	132992	126.00	1397	187.00	85	292.00	308
63.00	93064	127.00	371	189.00	232	293.00	339
64.00	7206	128.00	7944	190.00	33	294.00	187
65.00	824	129.00	3701	191.00	470	295.00	113
66.00	8	130.00	7854	192.00	141	300.00	81
67.00	5380	131.00	2489	194.00	64	301.00	85
68.00	239808	132.00	609	196.00	148	304.00	73
69.00	235328	133.00	188	197.00	442	305.00	70
70.00	16036	134.00	741	198.00	157	309.00	202
72.00	10989	135.00	3775	199.00	88	311.00	274
73.00	97400	136.00	482	201.00	244	312.00	278
74.00	385152	137.00	4170	204.00	272	314.00	145

Date : 15-DEC-2006 09:40

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ea

Column phase: Column diameter: 0.53

Data File: 8121501.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	1178112	138.00	281	208.00	247	316.00	96
76.00	97064	139.00	1285	212.00	73	317.00	99
77.00	11973	140.00	1369	214.00	147	318.00	198
78.00	7228	141.00	25816	215.00	77	319.00	168
79.00	48448	142.00	3323	217.00	84	320.00	79
80.00	15144	143.00	27344	221.00	378	326.00	159
81.00	51056	144.00	1676	222.00	292	327.00	255
82.00	10380	145.00	1066	226.00	208	329.00	151
83.00	1264	146.00	3380	228.00	146	333.00	154
84.00	206	147.00	895	230.00	191	334.00	254
85.00	342	148.00	4648	231.00	73	335.00	144
86.00	1750	149.00	1275	232.00	278	339.00	198
87.00	77456	150.00	2728	234.00	52	341.00	91
88.00	75232	151.00	715	235.00	161	344.00	15
89.00	123	152.00	882	237.00	283	345.00	193
90.00	705	153.00	1171	239.00	348	346.00	253
91.00	6114	154.00	1379	240.00	43	347.00	337
92.00	67448	155.00	4780	241.00	114	348.00	70
93.00	96928	156.00	1443	242.00	167	349.00	91
94.00	282496	157.00	3511	244.00	178		
95.00	2323456	158.00	728	246.00	91		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-28dec.b/8122802.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-DEC-2006 11:46
Operator : JG Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2787
Comment :
Method : /var/chem/msd8.i/8-28dec.b/bfb30.m
Meth Date : 28-Dec-2006 11:14 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		
3.721	3.748	-0.027	95	2086229			100.00- 100.00	100.00
3.721	3.748	-0.027	50	666054			15.00- 40.00	31.93
3.721	3.748	-0.027	75	1070434			30.00- 60.00	51.31
3.721	3.748	-0.027	96	140037			5.00- 9.00	6.71
3.721	3.748	-0.027	173	0			0.00- 2.00	0.00
3.721	3.748	-0.027	174	1716476			50.00- 100.00	82.28
3.721	3.748	-0.027	175	137931			5.00- 9.00	8.04
3.721	3.748	-0.027	176	1655085			95.00- 101.00	96.42
3.721	3.748	-0.027	177	104645			5.00- 9.00	6.32

Data File: /var/chem/msd8.i/8-28dec.b/8122802.d

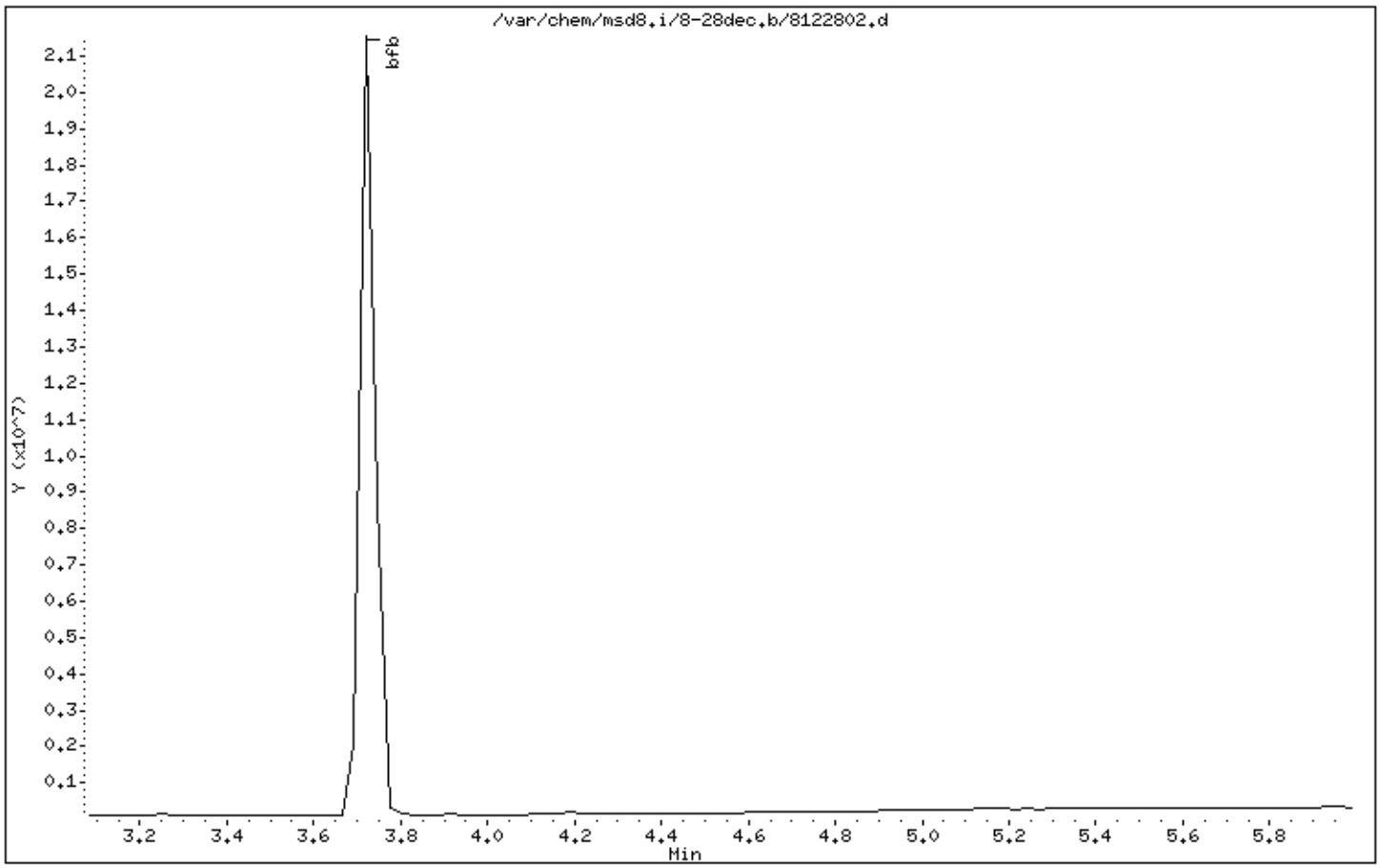
Date : 28-DEC-2006 11:46

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53



Data File: /var/chem/msd8.i/8-28dec.b/8122802.d

Date : 28-DEC-2006 11:46

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

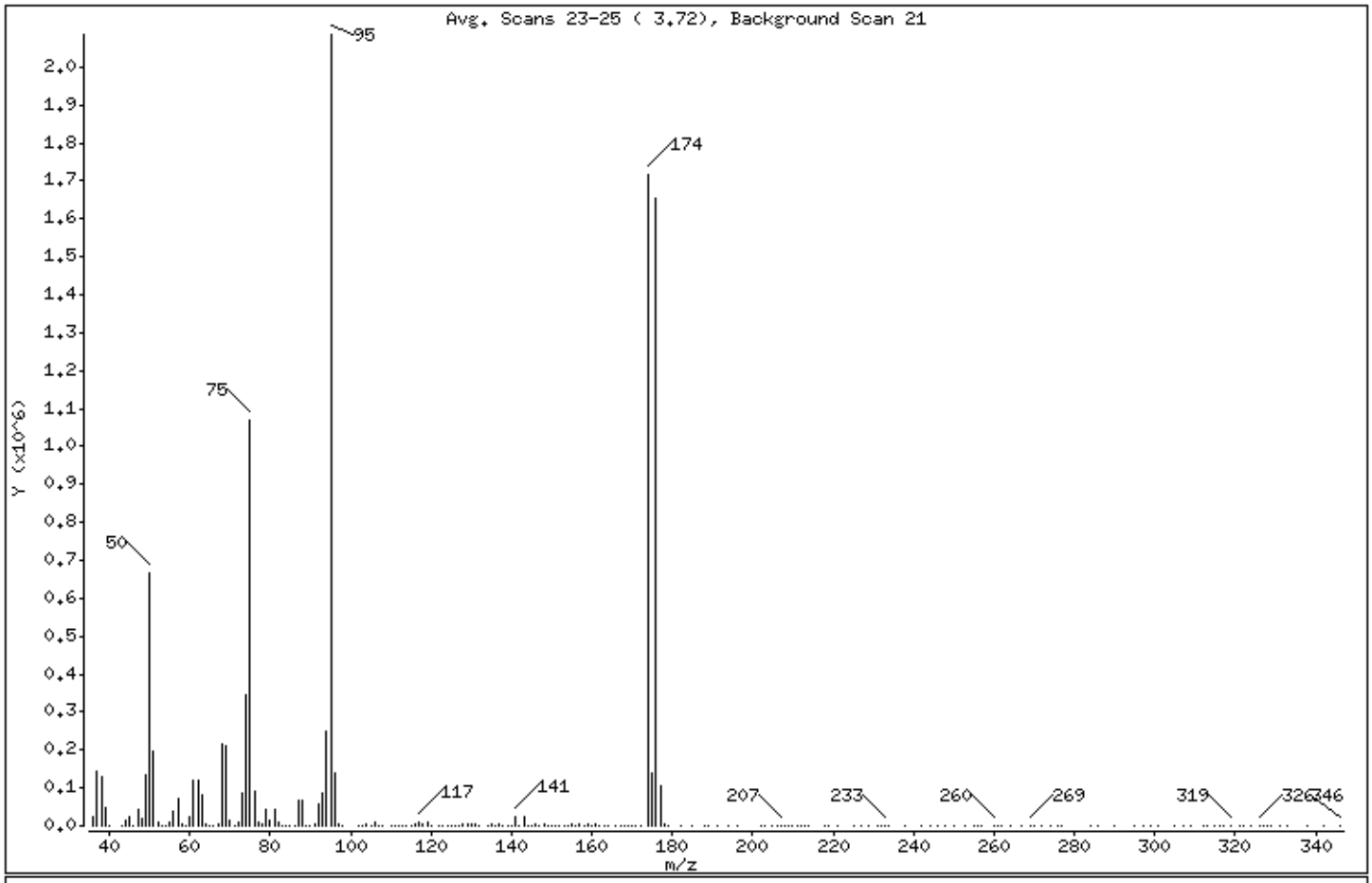
Volume Injected (uL): 2.0

Operator: JG

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	31.93
75	30.00 - 60.00% of mass 95	51.31
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	82.28
175	5.00 - 9.00% of mass 174	6.61 (8.04)
176	95.00 - 101.00% of mass 174	79.33 (96.42)
177	5.00 - 9.00% of mass 176	5.02 (6.32)

Date : 28-DEC-2006 11:46

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8122802.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	24792	92.00	58432	152.00	1255	234.00	70
37.00	143808	93.00	87336	153.00	1731	238.00	100
38.00	130616	94.00	248704	154.00	678	242.00	89
39.00	48624	95.00	2085888	155.00	4635	244.00	111
40.00	1177	96.00	140032	156.00	1076	246.00	153
43.00	142	97.00	3519	157.00	3024	248.00	195
44.00	13708	98.00	267	158.00	1172	250.00	76
45.00	25936	102.00	189	159.00	2423	253.00	191
46.00	1359	103.00	485	160.00	136	255.00	177
47.00	45464	104.00	6470	161.00	2502	256.00	290
48.00	19240	105.00	1983	162.00	68	257.00	157
49.00	133568	106.00	7600	163.00	167	260.00	423
50.00	666048	107.00	1524	164.00	76	261.00	99
51.00	197056	108.00	127	166.00	423	262.00	92
52.00	7964	110.00	1069	167.00	331	264.00	18
53.00	750	111.00	1019	168.00	852	267.00	105
54.00	70	112.00	772	169.00	366	269.00	868
55.00	7221	113.00	1382	170.00	1867	270.00	553
56.00	39344	114.00	193	171.00	201	272.00	332
57.00	72088	115.00	1423	172.00	1369	274.00	70
58.00	2588	116.00	6290	174.00	1716224	276.00	113
59.00	934	117.00	11526	175.00	137920	277.00	111
60.00	24568	118.00	6112	176.00	1654784	284.00	155
61.00	121840	119.00	9380	177.00	104640	286.00	217
62.00	119544	120.00	349	178.00	2912	290.00	167
63.00	83592	122.00	98	179.00	249	295.00	72
64.00	7014	123.00	721	182.00	150	297.00	186
65.00	759	124.00	780	185.00	148	299.00	149
66.00	250	125.00	802	188.00	238	301.00	95
67.00	5850	126.00	249	189.00	74	305.00	68
68.00	213952	127.00	148	191.00	234	307.00	48
69.00	211392	128.00	6746	194.00	252	309.00	67
70.00	14849	129.00	4005	196.00	310	312.00	141
71.00	733	130.00	6937	202.00	291	313.00	154
72.00	10439	131.00	3257	203.00	272	315.00	125

Date : 28-DEC-2006 11:46

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8122802.d
Spectrum: Avg. Scans 23-25 (3.72), Background Scan 21
Location of Maximum: 95.00
Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	86672	132.00	700	205.00	61	316.00	103
74.00	345280	134.00	101	206.00	262	317.00	75
75.00	1070080	135.00	3217	207.00	1061	319.00	345
76.00	89688	136.00	292	208.00	733	321.00	139
77.00	9671	137.00	3615	209.00	41	322.00	12
78.00	5135	138.00	357	210.00	113	324.00	171
79.00	42248	139.00	1050	211.00	183	326.00	218
80.00	13483	140.00	1767	212.00	79	327.00	34
81.00	44256	141.00	23416	213.00	90	328.00	213
82.00	8846	142.00	2151	214.00	86	329.00	2
83.00	1301	143.00	23008	218.00	239	331.00	89
84.00	138	144.00	1067	219.00	85	333.00	209
85.00	40	145.00	1943	221.00	153	338.00	67
86.00	455	146.00	3149	225.00	247	342.00	5
87.00	68032	147.00	1808	227.00	68	346.00	214
88.00	65816	148.00	5046	229.00	85		
89.00	209	149.00	942	231.00	244		
90.00	16	150.00	2268	232.00	286		
91.00	5395	151.00	271	233.00	348		

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: Mr. Greg Garvey
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0612375
# of pages (Including Cover): 1

1/5/2007

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 **Kelly Buettner 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

Contact Person Karen Swartz

Company GEI Consultants Email datagray@geiconsultants.com

Address 455 Winding Brook City Glastonbury State CT Zip 06033

Phone 860 368 5394 Fax 860 368 5307

Collected by: (Signature) Karen Swartz

Project Info:

P.O. #

Project # 061140-8-1703

Project Name BayShore OU1 Shell

Turn Around Time: ☒ Normal ☐ Rush specify

Lab Use Only: Pressurized by: [illegible] Date: 12/21/06 Pressurization Gas: (N2) He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	UW-AMS4+100N	1887	12/14/06	742-1620	TO15+ Naphthalene	-29	-6	6.0"Hg	5psi
02A	DW-AMS2	1879	12/14/06	745-1610	TO15+ Naphthalene	-30	-8	6.0"Hg	5psi

(inches Hg)

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
Karen Swartz 12/15/06	C.M. Walker ATL 12/18/06 1010	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order #
	UPS	↓	NA	good	Yes No (None)	0612375

Form 1293 rev 10

UPS Tracking # 1Z 127 36E 01 4813 3986

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0612375

Client

Mr. Greg Garvey
GEI Consultants, Inc.
455 Winding Brook Dr. Suite 201
Glastonbury, CT 06033

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 01/03/07
Date Completed: 1/4/07
Date Received: 12/18/06
PO#: NR
Project#: 061140-8-1703 Bayshore OUI S.Cell

Sales Rep: R1

Total $: $ 624.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW-AMS4+100N	Modified TO-15	12/14/2006	6.0 "Hg	$225.00
02A	DW-AMS2	Modified TO-15	12/14/2006	6.0 "Hg	$225.00
02AA	DW-AMS2 Duplicate	Modified TO-15	12/14/2006	6.0 "Hg	$0.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each.	$100.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00
	Flow Controller-24 hr (2) @ $35.00 each.	$70.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Keyspan -Bayshore Southern Cell IRM/9699

BILL TO: Mr. Greg Garvey
GEI Consultants, Inc.
455 Winding Brook Dr. Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

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.

DATA REVIEW CHECKLIST

Work Order #: 0612375

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	NA	☐	Corrective Action issued - #
☐	☐	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

A	R	T	M	Q	
☑	see report	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria (CCV, LCS circled)
☑	☑	☐	☐	☐	Hold time is met for all samples
	☑	☐	☐	☐	Appropriate data qualifier flags are applied
	NA	☐	☐	☐	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

A	R	T	M	Q	
☑	☑	☑		☐	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	NA			TICs resemble reference spectra
	☐	NA			TICs between duplicate samples are consistent
NA	☐	☑	☑		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☑		NA		Special units for all samples in the final report are correctly calculated
	☑	☑	☑		Manually entered results checked (i.e. special CCV compounds)
	NA	NA	NA		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) (N₂ circled) ☐ Tedlar Bag only
☑	☑				Final pressure consistent with canister size (6L vs. 1L) (6L circled)
☑	☑				Verify receipt pressures against logbook and Target
☑	☑				Verify canister ID #'s
	NA		NA		Extra printed copies are provided per client profile
	NA		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	NA	NA	☐	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: · 2 out in CCV (MTBE & Hexa T) & 2 out in LCS
· multiple LCS files

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
[signature] 1-2-07	R: NABailey 1-3-07	[initials] 1/4/07	
	T: [initials] 1/3/07		

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

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

Not Applicable