



***Air
Toxics LTD.***
Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0711487

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. <u>Lumen Validation Report</u>	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	29
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	30	37
b. Surrogate Recover Summary Form (If Applicable)	38	38
c. Internal Standard Summary Form (If Applicable)	39	39
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data)	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	40	168
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	169	182
i. Second Source LCS(Summary + Raw Data)	183	196
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	197	198
l. GC/MS Tune (Results + Raw Data)	199	215
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	216	217
b. Chain-of-Custody Records	218	218
c. Sample Log-In Sheet	219	219
d. Misc Shipping/Receiving Records (list of individual records)		
<u>Sample Receipt Discrepancy Report</u>	220	220
5. Other Records (describe or list)		
a. <u>Manual Spectral Defense</u>	--	--
b. <u>Manual Integrations</u>	--	--
c. <u>Manual Calculations</u>	--	--
d. <u>Canister Dilution Factors</u>	221	223
e. <u>Laboratory Corrective Action Request</u>	--	--
f. <u>CAS Number Reference</u>	224	225
g. <u>Variance Table</u>	--	--
h. <u>Canister Certification</u>	--	--
i. <u>Data Review Check Sheet</u>	226	226

Comments:

Completed by:

Kara McKiernan

Kara McKiernan / Document Control

12/12/07

(Signature)

(Print Name & Title)

(Date)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0711487

Work Order Summary

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

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

PHONE: 860-368-5300

P.O. # NR

FAX: 860-368-5307

PROJECT # 061140-8-1703 BayShore OU1 Southern

DATE RECEIVED: 11/26/2007

CONTACT: cell Air Monitor
Bryanna Langley

DATE COMPLETED: 12/07/2007

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	UW-AMS-1	Modified TO-15	2.5 "Hg
02A	DW-AMS-5	Modified TO-15	1.0 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: 

DATE: 12/07/07

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0711487



Two 6 Liter Summa Canister samples were received on November 26, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

The Chain of Custody (COC) information for samples UW-AMS-1 and DW-AMS-5 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

- 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	Sample Extract		
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	Sample Condition
UW-AMS-1	0711487-01A	11/21/2007	11/26/2007	NA	14	12/ 5/2007	NA	Good
DW-AMS-5	0711487-02A	11/21/2007	11/26/2007	NA	14	12/ 5/2007	NA	Good
Lab Blank	0711487-03A	NA	NA	NA	NA	12/ 4/2007	NA	Good
CCV	0711487-04A	NA	NA	NA	NA	12/ 4/2007	NA	Good
LCS	0711487-05A	NA	NA	NA	NA	12/ 4/2007	NA	Good

Sample Results and Raw Data



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW-AMS-1

Lab ID#: 0711487-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.73	0.91	3.6	4.5
Methylene Chloride	0.73	1.0	2.5	3.6
Benzene	0.73	0.85	2.3	2.7
Toluene	0.73	2.4	2.8	9.0
Acetone	2.9	5.8	6.9	14



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS-1

Lab ID#: 0711487-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120417	Date of Collection:	11/21/07
Dil. Factor:	1.46	Date of Analysis:	12/5/07 12:42 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.73	0.91	3.6	4.5
Freon 114	0.73	Not Detected	5.1	Not Detected
Vinyl Chloride	0.73	Not Detected	1.9	Not Detected
Bromomethane	0.73	Not Detected	2.8	Not Detected
Chloroethane	0.73	Not Detected	1.9	Not Detected
Freon 11	0.73	Not Detected	4.1	Not Detected
1,1-Dichloroethene	0.73	Not Detected	2.9	Not Detected
Freon 113	0.73	Not Detected	5.6	Not Detected
Methylene Chloride	0.73	1.0	2.5	3.6
1,1-Dichloroethane	0.73	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.73	Not Detected	2.9	Not Detected
Chloroform	0.73	Not Detected	3.6	Not Detected
1,1,1-Trichloroethane	0.73	Not Detected	4.0	Not Detected
Carbon Tetrachloride	0.73	Not Detected	4.6	Not Detected
Benzene	0.73	0.85	2.3	2.7
1,2-Dichloroethane	0.73	Not Detected	3.0	Not Detected
Trichloroethene	0.73	Not Detected	3.9	Not Detected
1,2-Dichloropropane	0.73	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.73	Not Detected	3.3	Not Detected
Toluene	0.73	2.4	2.8	9.0
trans-1,3-Dichloropropene	0.73	Not Detected	3.3	Not Detected
1,1,2-Trichloroethane	0.73	Not Detected	4.0	Not Detected
Tetrachloroethene	0.73	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	0.73	Not Detected	5.6	Not Detected
Chlorobenzene	0.73	Not Detected	3.4	Not Detected
Ethyl Benzene	0.73	Not Detected	3.2	Not Detected
m,p-Xylene	0.73	Not Detected	3.2	Not Detected
o-Xylene	0.73	Not Detected	3.2	Not Detected
Styrene	0.73	Not Detected	3.1	Not Detected
1,1,2,2-Tetrachloroethane	0.73	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	0.73	Not Detected	3.6	Not Detected
1,2,4-Trimethylbenzene	0.73	Not Detected	3.6	Not Detected
1,3-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
1,4-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
alpha-Chlorotoluene	0.73	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
1,3-Butadiene	0.73	Not Detected	1.6	Not Detected
Hexane	0.73	Not Detected	2.6	Not Detected
Cyclohexane	0.73	Not Detected	2.5	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS-1

Lab ID#: 0711487-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120417	Date of Collection:	11/21/07
Dil. Factor:	1.46	Date of Analysis:	12/5/07 12:42 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.73	Not Detected	3.0	Not Detected
Bromodichloromethane	0.73	Not Detected	4.9	Not Detected
Dibromochloromethane	0.73	Not Detected	6.2	Not Detected
Cumene	0.73	Not Detected	3.6	Not Detected
Propylbenzene	0.73	Not Detected	3.6	Not Detected
Chloromethane	2.9	Not Detected	6.0	Not Detected
1,2,4-Trichlorobenzene	2.9	Not Detected	22	Not Detected
Hexachlorobutadiene	2.9	Not Detected	31	Not Detected
Acetone	2.9	5.8	6.9	14
Carbon Disulfide	0.73	Not Detected	2.3	Not Detected
2-Propanol	2.9	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.73	Not Detected	2.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.73	Not Detected	2.2	Not Detected
Tetrahydrofuran	0.73	Not Detected	2.2	Not Detected
1,4-Dioxane	2.9	Not Detected	10	Not Detected
4-Methyl-2-pentanone	0.73	Not Detected	3.0	Not Detected
2-Hexanone	2.9	Not Detected	12	Not Detected
Bromoform	0.73	Not Detected	7.5	Not Detected
4-Ethyltoluene	0.73	Not Detected	3.6	Not Detected
Ethanol	2.9	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	0.73	Not Detected	2.6	Not Detected
3-Chloropropene	2.9	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	0.73	Not Detected	3.4	Not Detected
Naphthalene	2.9	Not Detected	15	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 07-Dec-2007 15:13

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/04Dec2007.b/t120417.d
 Lab Smp Id: 0711487-01A
 Inj Date : 05-DEC-2007 00:42
 Operator : ab Inst ID: msdt.i
 Smp Info : 200mL #35125
 Misc Info : 2.5"Hg -> 5psi
 Comment :
 Method : /chem/msdt.i/04Dec2007.b/t14q1121b.m
 Meth Date : 04-Dec-2007 13:33 sruth Quant Type: ISTD
 Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
 Als bottle: 1
 Dil Factor: 1.46000
 Integrator: HP RTE Compound Sublist: AT04.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL		TARGET RANGE		RATIO	
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)				
==	=====	=====	=====	=====	=====	=====		=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.886	13.858 (1.000)	130	251136	25.0000		80.00-	120.00	100.00	
13.886	13.858 (1.000)	128	186269			29.93-	129.93	74.17	
13.858	13.858 (1.000)	49	289964			108.51-	208.51	115.46	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.600 (1.000)	114	1149864	25.0000		80.00-	120.00	100.00	
15.628	15.600 (1.000)	88	185195			0.00-	66.48	16.11	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798 (1.000)	117	956844	25.0000		80.00-	120.00	100.00	
20.798	20.798 (1.000)	82	541934			4.93-	104.93	56.64	

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.937 (1.076)	65	405299	25.0358	25.036	80.00-	120.00	100.00	
14.936	14.937 (1.076)	67	194791			5.03-	105.03	48.06	

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199 (1.165)	98	1080193	27.7514	27.751	80.00-	120.00	100.00	
18.199	18.199 (1.165)	70	120008			0.00-	61.02	11.11	

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== =====

\$ 113 Toluene-d8 (continued)

18.199 18.199 (1.165) 100 732528 19.45- 119.45 67.81

\$ 137 Bromofluorobenzene

CAS #: 460-00-4

22.789 22.789 (1.096) 174 612535 25.4842 25.484 80.00- 120.00 100.00

22.789 22.789 (1.096) 95 779519 78.56- 178.56 127.26

22.789 22.789 (1.096) 176 598195 47.64- 147.64 97.66

12 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

5.923 5.923 (0.427) 85 23016 0.62412 0.9112 80.00- 120.00 100.00

5.923 5.923 (0.427) 87 7125 0.00- 82.07 30.96

45 Acetone

CAS #: 67-64-1

10.181 10.181 (0.733) 58 31756 3.98582 5.819 80.00- 120.00 100.00

10.208 10.181 (0.735) 43 100745 259.05- 359.05 317.25

54 Methylene Chloride

CAS #: 75-09-2

11.121 11.093 (0.801) 49 9267 0.70537 1.030 80.00- 120.00 100.00

11.093 11.093 (0.799) 84 8193 47.12- 147.12 88.41

11.121 11.093 (0.801) 51 3653 0.00- 81.08 39.42

91 Benzene

CAS #: 71-43-2

14.964 14.964 (0.958) 78 28602 0.58304 0.8512 80.00- 120.00 100.00

14.964 14.937 (0.958) 77 6722 0.00- 72.49 23.50

114 Toluene

CAS #: 108-88-3

18.337 18.337 (1.173) 91 89394 1.64237 2.398 80.00- 120.00 100.00

18.337 18.310 (1.173) 92 54023 11.41- 111.41 60.43

Report Date: 07-Dec-2007 15:13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msdt.i
Lab File ID: t120417.d
Lab Smp Id: 0711487-01ACalibration Date: 04-DEC-2007
Calibration Time: 09:44

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ab

Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m

Misc Info: 2.5"Hg -> 5psi

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	355566	213340	497792	251136	-29.37
97 1,4-Difluorobenze	1769240	1061544	2476936	1149864	-35.01
126 Chlorobenzene-d5	1250441	750265	1750617	956844	-23.48

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.86	13.53	14.19	13.89	0.20
97 1,4-Difluorobenze	15.60	15.27	15.93	15.63	0.18
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 04Dec2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0711487-01A
Level: LOW Operator: ab
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m
Misc Info: 2.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 90 1,2-Dichloroethane	25.000	25.036	100.14	70-130
\$ 113 Toluene-d8	25.000	27.751	111.01	70-130
\$ 137 Bromofluorobenzene	25.000	25.484	101.94	70-130

Data File: /chem/msdt,i/04Dec2007,b/t120417.d

Date : 05-DEC-2007 00:42

Client ID:

Sample Info: 200ML #35125

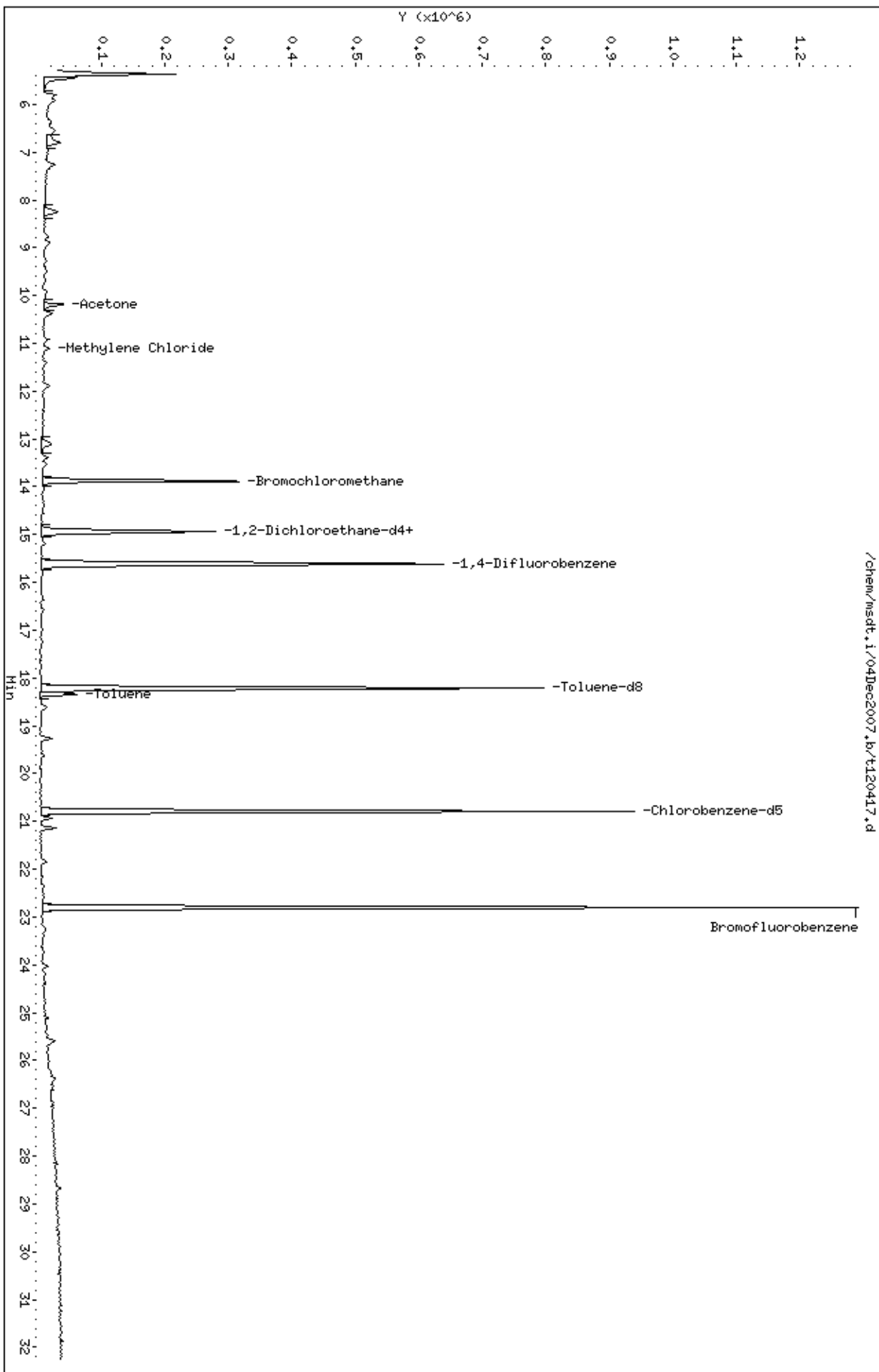
Column phase: RTX-624

Instrument: msdt,i

Operator: ab

Column diameter: 0.53

/chem/msdt,i/04Dec2007,b/t120417.d



Date : 05-DEC-2007 00:42

Client ID:

Instrument: msdt.i

Sample Info: 200mL #35125

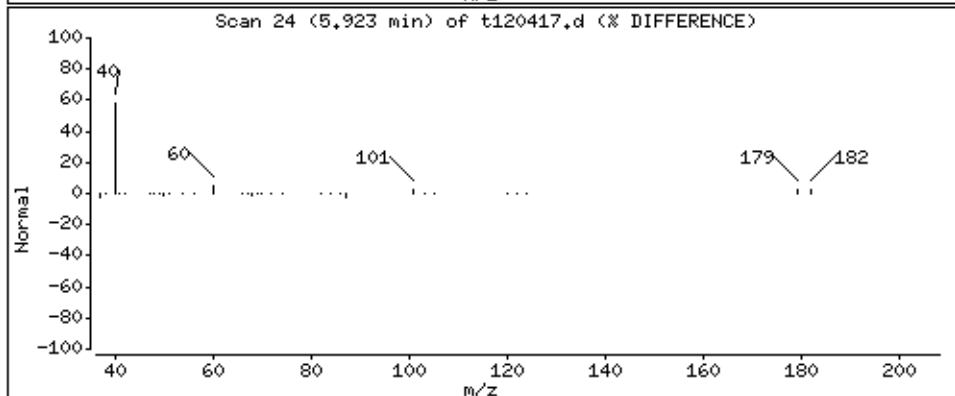
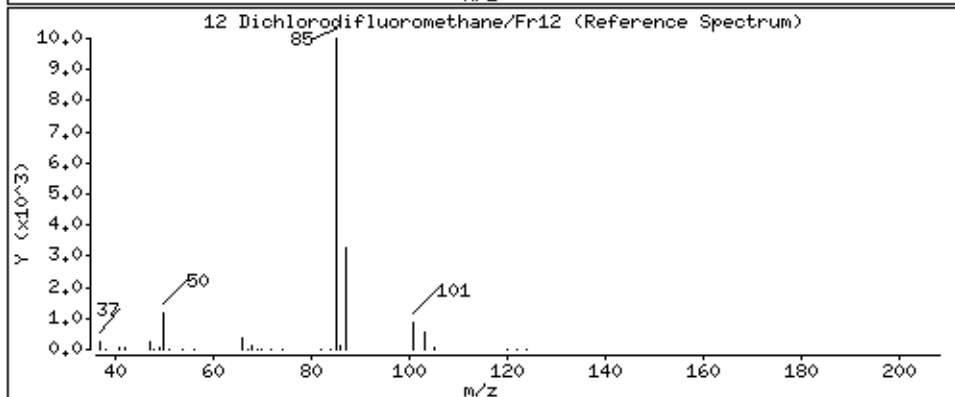
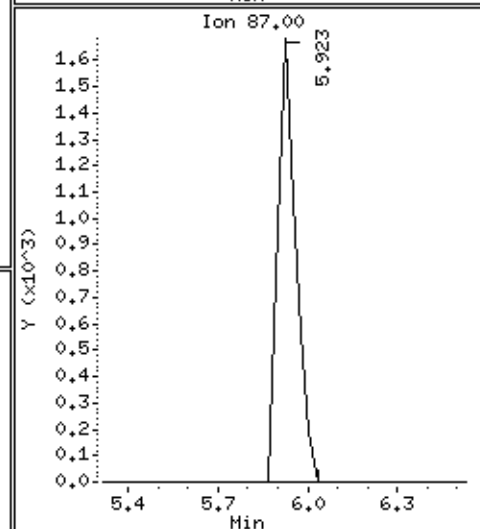
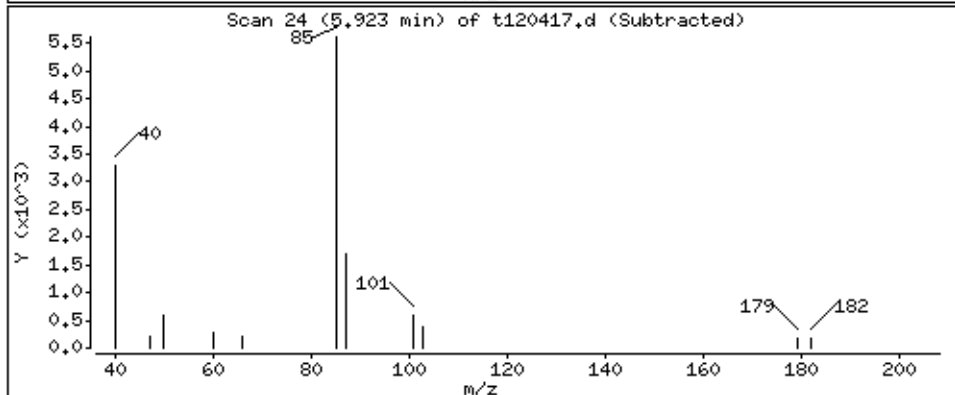
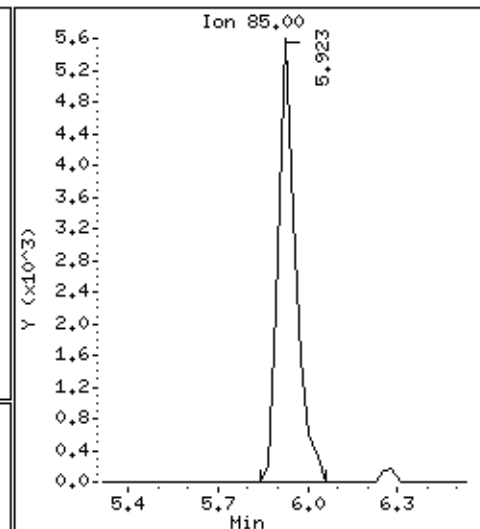
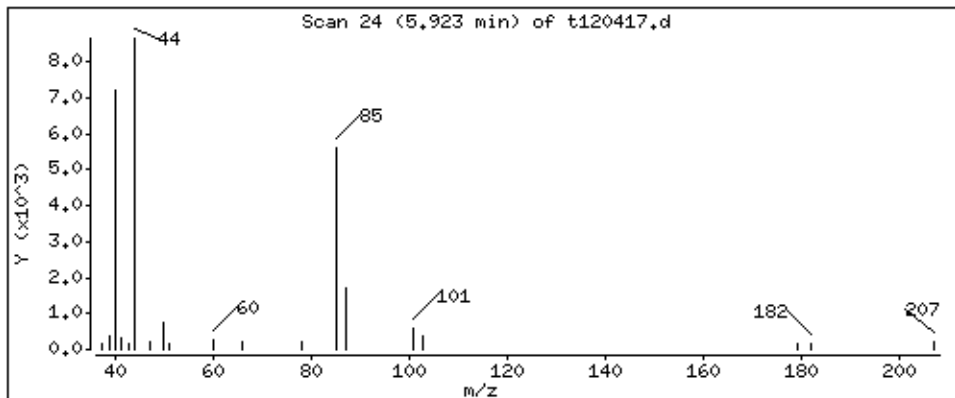
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

12 Dichlorodifluoromethane/Fr12

Concentration: 0.9112 PPBV



Date : 05-DEC-2007 00:42

Client ID:

Instrument: msdt,i

Sample Info: 200mL #35125

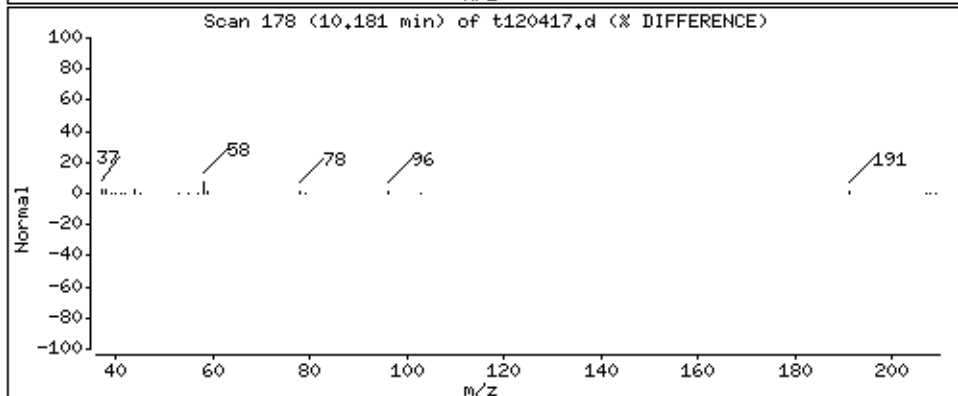
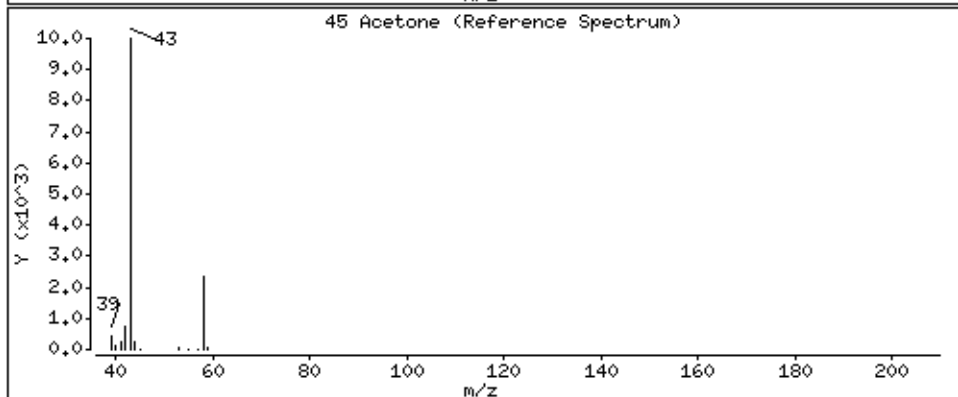
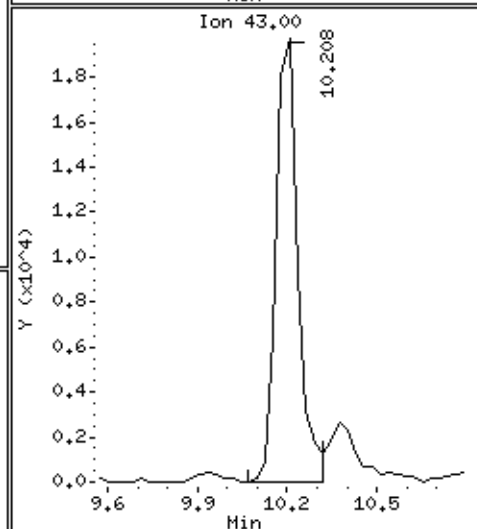
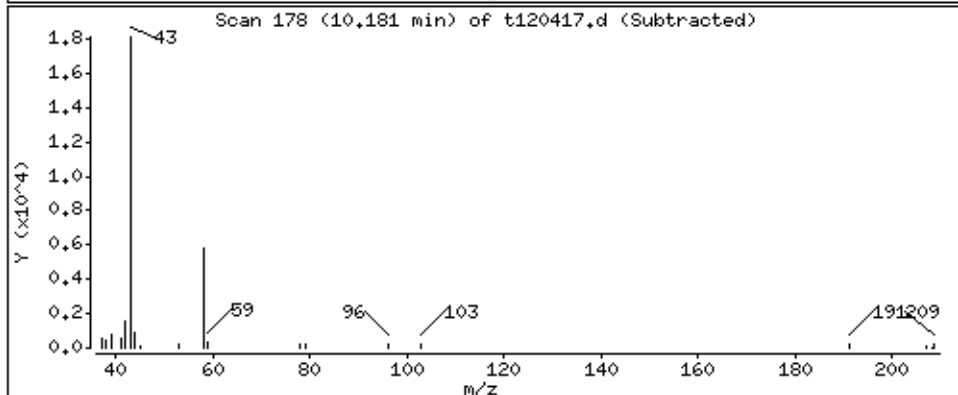
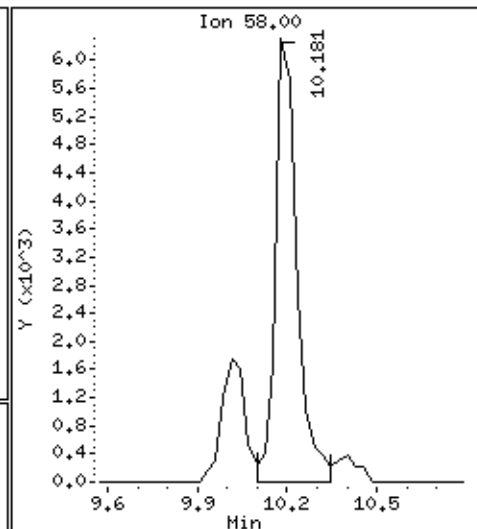
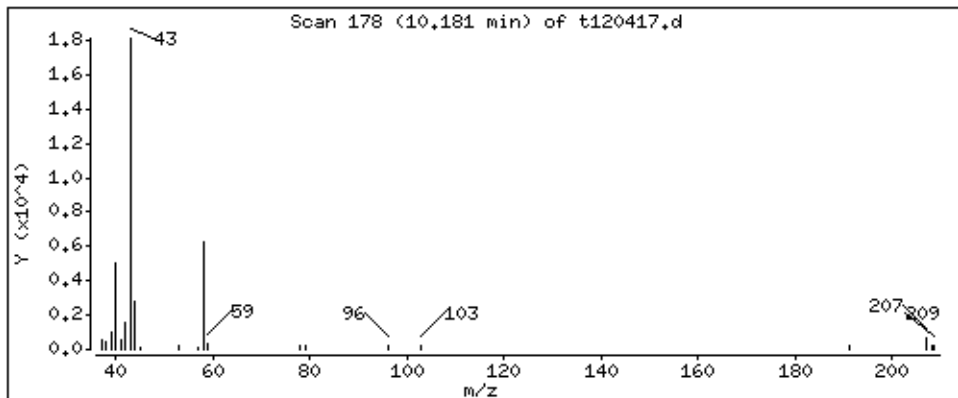
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

45 Acetone

Concentration: 5.819 PPBV



Date : 05-DEC-2007 00:42

Client ID:

Instrument: msdt,i

Sample Info: 200mL #35125

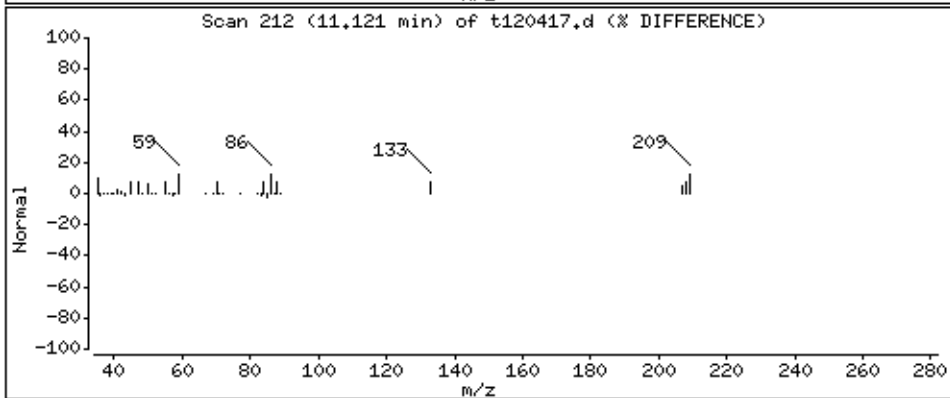
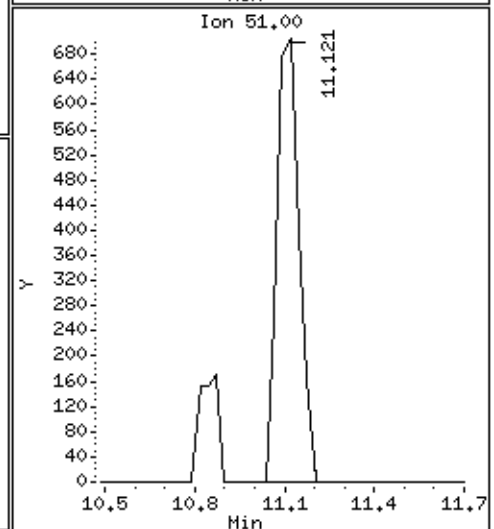
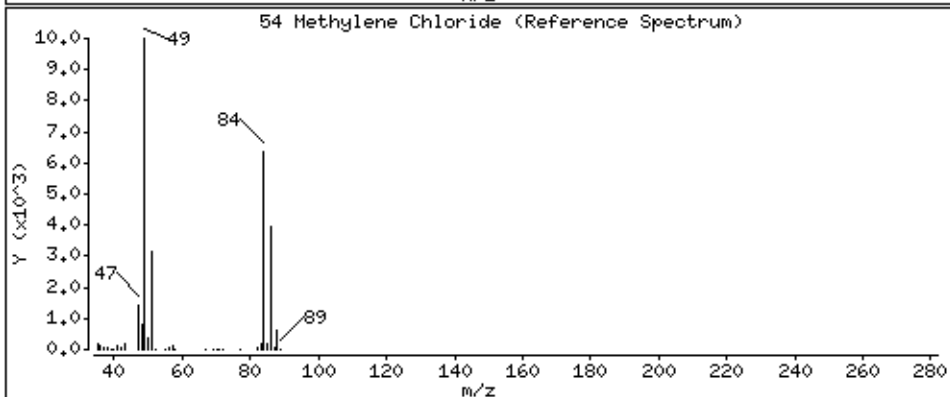
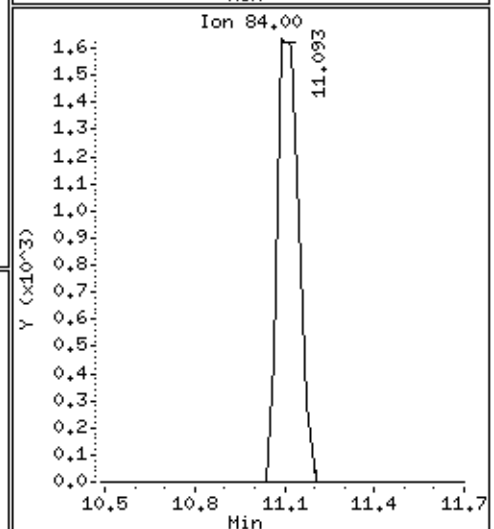
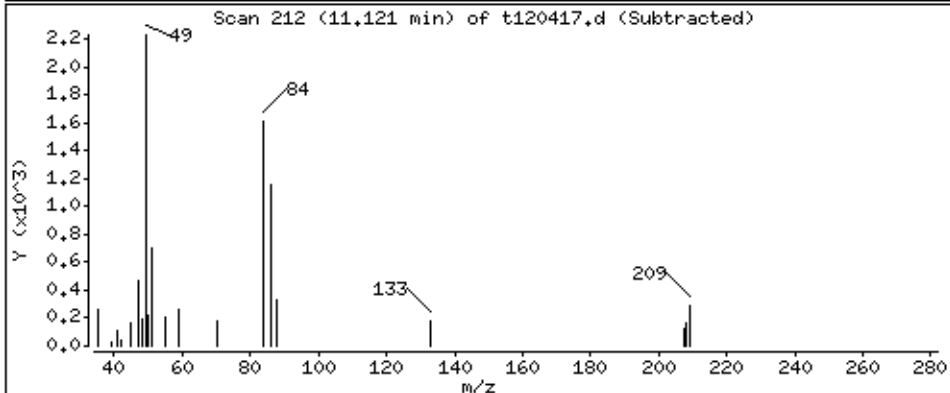
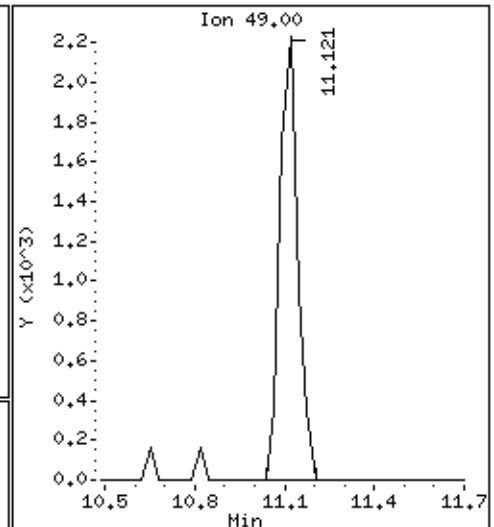
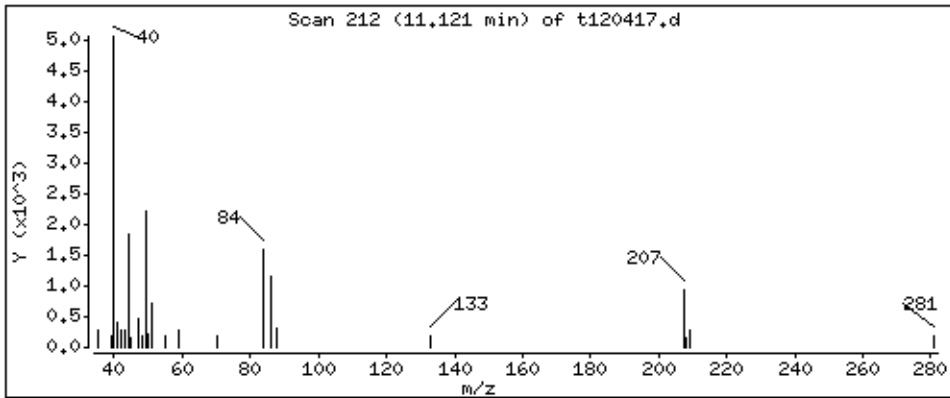
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

54 Methylene Chloride

Concentration: 1,030 PPBV



Date : 05-DEC-2007 00:42

Client ID:

Instrument: msdt,i

Sample Info: 200mL #35125

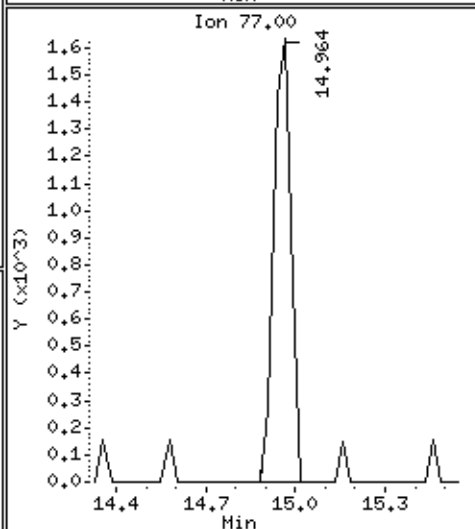
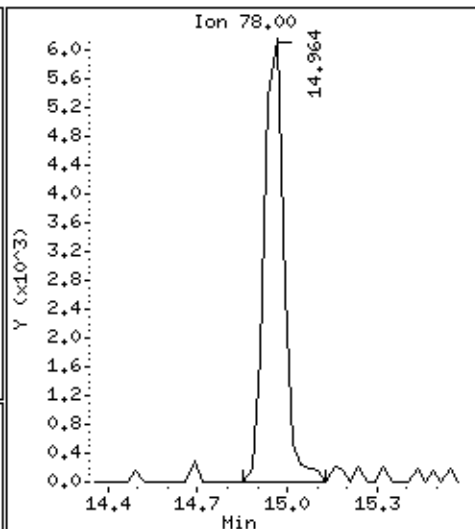
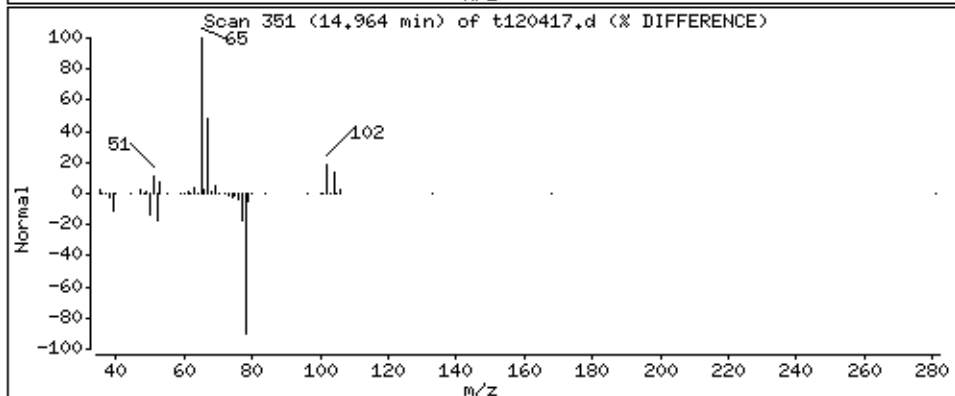
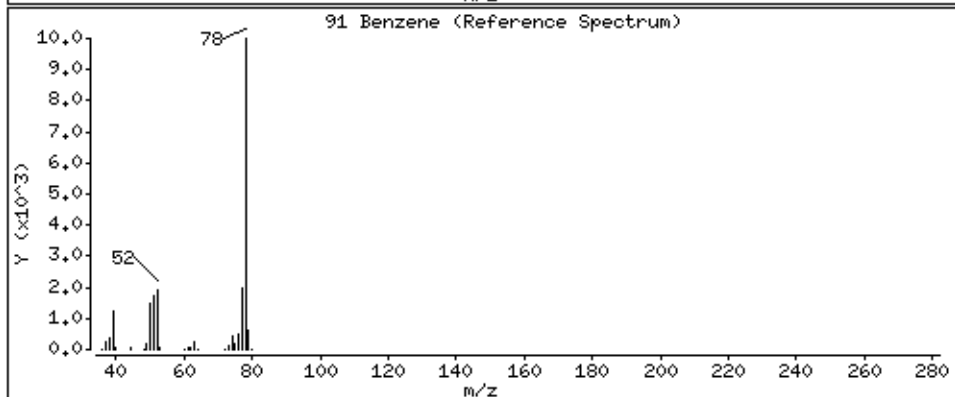
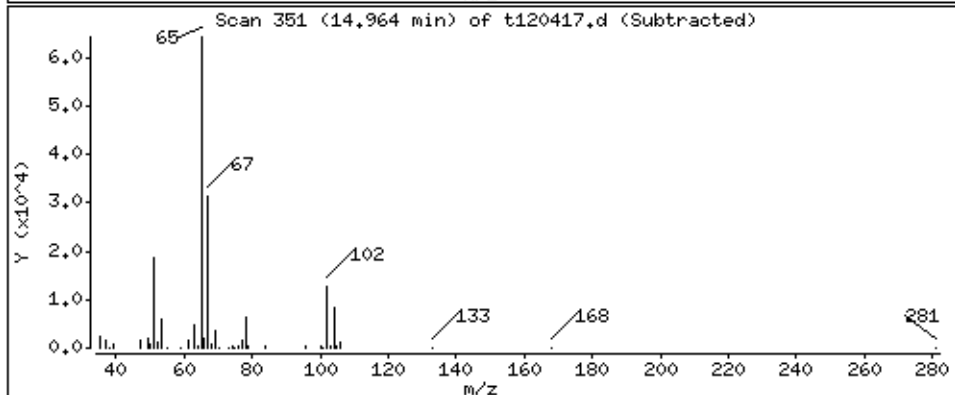
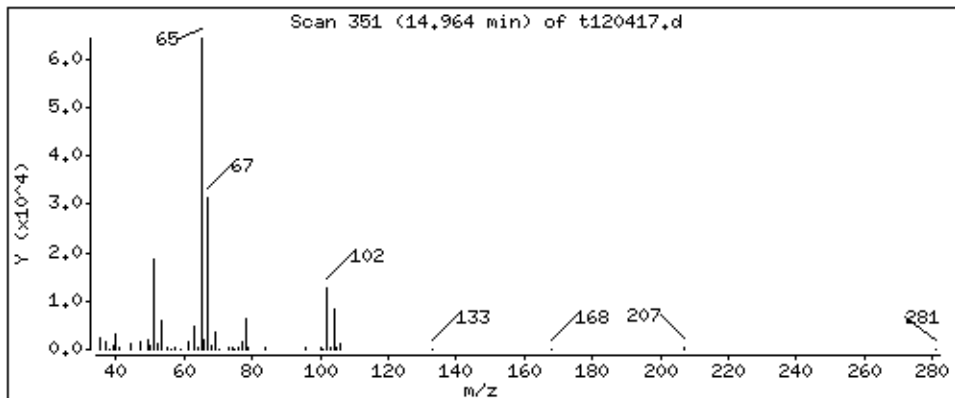
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

91 Benzene

Concentration: 0.8512 PPBV



Date : 05-DEC-2007 00:42

Client ID:

Instrument: msdt.i

Sample Info: 200mL #35125

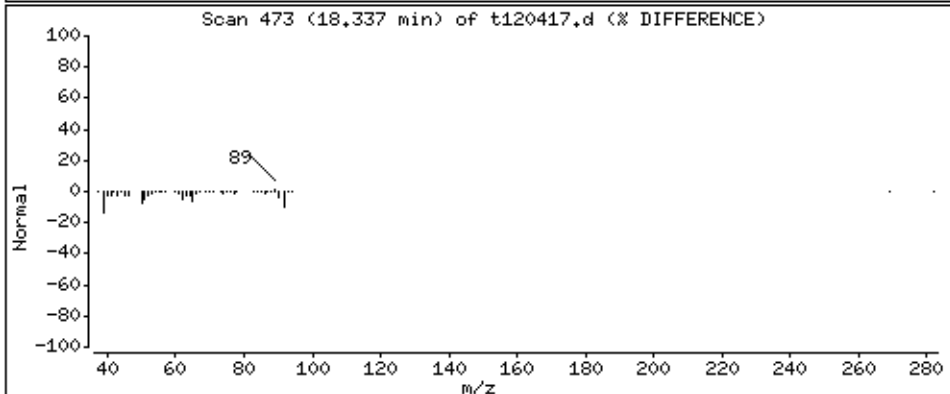
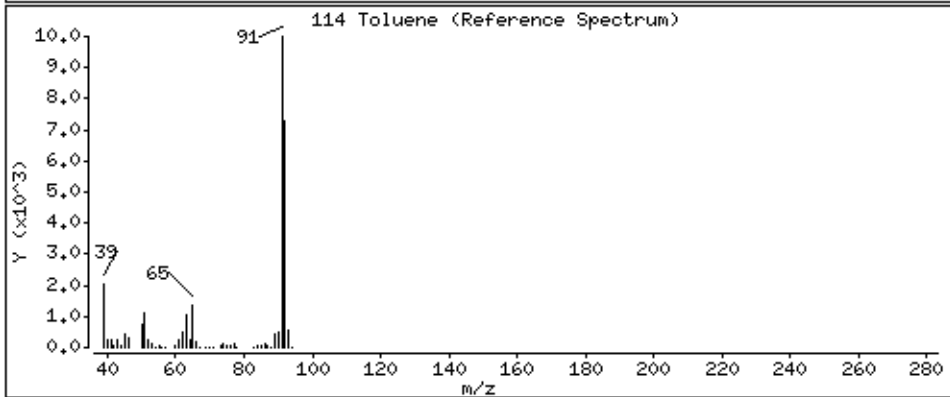
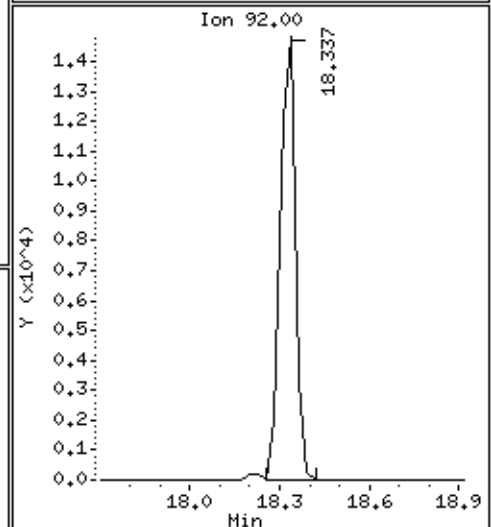
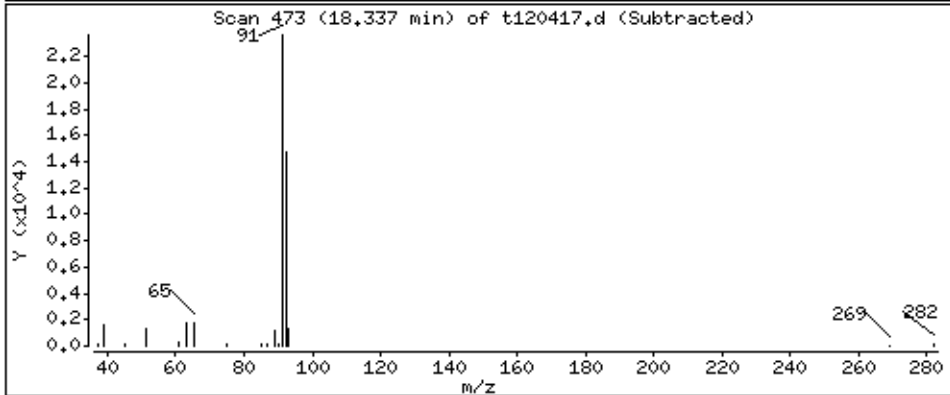
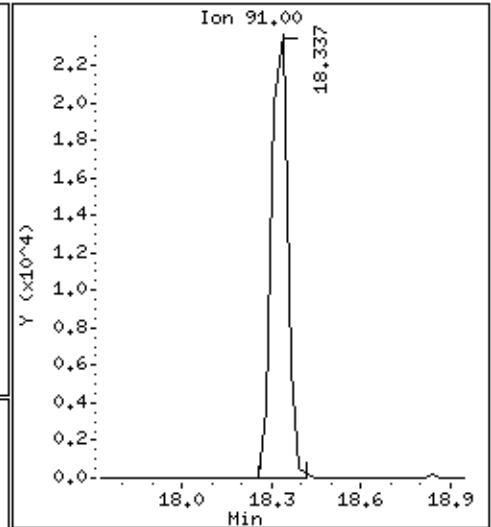
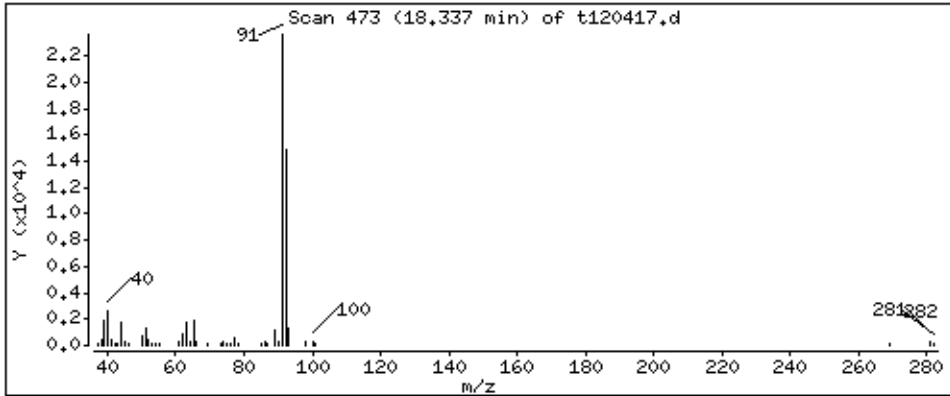
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

114 Toluene

Concentration: 2,398 PPBV





AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW-AMS-5

Lab ID#: 0711487-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.70	0.82	3.4	4.0
Toluene	0.70	1.2	2.6	4.6
Acetone	2.8	3.0	6.6	7.3



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS-5

Lab ID#: 0711487-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120418	Date of Collection:	11/21/07
Dil. Factor:	1.39	Date of Analysis:	12/5/07 01:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.70	0.82	3.4	4.0
Freon 114	0.70	Not Detected	4.8	Not Detected
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
Bromomethane	0.70	Not Detected	2.7	Not Detected
Chloroethane	0.70	Not Detected	1.8	Not Detected
Freon 11	0.70	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Freon 113	0.70	Not Detected	5.3	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.70	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Carbon Tetrachloride	0.70	Not Detected	4.4	Not Detected
Benzene	0.70	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.70	Not Detected	2.8	Not Detected
Trichloroethene	0.70	Not Detected	3.7	Not Detected
1,2-Dichloropropane	0.70	Not Detected	3.2	Not Detected
cis-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
Toluene	0.70	1.2	2.6	4.6
trans-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
1,1,2-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Tetrachloroethene	0.70	Not Detected	4.7	Not Detected
1,2-Dibromoethane (EDB)	0.70	Not Detected	5.3	Not Detected
Chlorobenzene	0.70	Not Detected	3.2	Not Detected
Ethyl Benzene	0.70	Not Detected	3.0	Not Detected
m,p-Xylene	0.70	Not Detected	3.0	Not Detected
o-Xylene	0.70	Not Detected	3.0	Not Detected
Styrene	0.70	Not Detected	3.0	Not Detected
1,1,2,2-Tetrachloroethane	0.70	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,2,4-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,3-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
alpha-Chlorotoluene	0.70	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,3-Butadiene	0.70	Not Detected	1.5	Not Detected
Hexane	0.70	Not Detected	2.4	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS-5

Lab ID#: 0711487-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120418	Date of Collection:	11/21/07
Dil. Factor:	1.39	Date of Analysis:	12/5/07 01:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.70	Not Detected	2.8	Not Detected
Bromodichloromethane	0.70	Not Detected	4.6	Not Detected
Dibromochloromethane	0.70	Not Detected	5.9	Not Detected
Cumene	0.70	Not Detected	3.4	Not Detected
Propylbenzene	0.70	Not Detected	3.4	Not Detected
Chloromethane	2.8	Not Detected	5.7	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected
Hexachlorobutadiene	2.8	Not Detected	30	Not Detected
Acetone	2.8	3.0	6.6	7.3
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
2-Propanol	2.8	Not Detected	6.8	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.70	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.0	Not Detected
1,4-Dioxane	2.8	Not Detected	10	Not Detected
4-Methyl-2-pentanone	0.70	Not Detected	2.8	Not Detected
2-Hexanone	2.8	Not Detected	11	Not Detected
Bromoform	0.70	Not Detected	7.2	Not Detected
4-Ethyltoluene	0.70	Not Detected	3.4	Not Detected
Ethanol	2.8	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	0.70	Not Detected	2.5	Not Detected
3-Chloropropene	2.8	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.2	Not Detected
Naphthalene	2.8	Not Detected	14	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	104	70-130

Report Date: 07-Dec-2007 15:13

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/04Dec2007.b/t120418.d
 Lab Smp Id: 0711487-02A
 Inj Date : 05-DEC-2007 01:34
 Operator : ab Inst ID: msdt.i
 Smp Info : 200mL #21015
 Misc Info : 1.0"Hg -> 5psi
 Comment :
 Method : /chem/msdt.i/04Dec2007.b/t14q1121b.m
 Meth Date : 04-Dec-2007 13:33 sruth Quant Type: ISTD
 Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
 Als bottle: 1
 Dil Factor: 1.39000
 Integrator: HP RTE Compound Sublist: AT04.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				(PPBV)	(PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====

* 81	Bromochloromethane					CAS #: 74-97-5		
13.886	13.858	(1.000)	130	245906	25.0000	80.00- 120.00	100.00	
13.886	13.858	(1.000)	128	189515		29.93- 129.93	77.07	
13.858	13.858	(1.000)	49	285115		108.51- 208.51	115.94	

* 97	1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.600	(1.000)	114	1108046	25.0000	80.00- 120.00	100.00	
15.628	15.600	(1.000)	88	183613		0.00- 66.48	16.57	

* 126	Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798	(1.000)	117	899532	25.0000	80.00- 120.00	100.00	
20.798	20.798	(1.000)	82	519694		4.93- 104.93	57.77	

\$ 90	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.936	14.937	(1.076)	65	394124	24.8633	24.863 80.00- 120.00	100.00	
14.936	14.937	(1.076)	67	195788		5.03- 105.03	49.68	

\$ 113	Toluene-d8					CAS #: 2037-26-5		
18.199	18.199	(1.165)	98	1030702	27.4793	27.479 80.00- 120.00	100.00	
18.199	18.199	(1.165)	70	114770		0.00- 61.02	11.14	

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
== =====

\$ 113 Toluene-d8 (continued)

18.199 18.199 (1.165) 100 719358 19.45- 119.45 69.79

\$ 137 Bromofluorobenzene

CAS #: 460-00-4

22.789 22.789 (1.096) 174 586016 25.9343 25.934 80.00- 120.00 100.00

22.789 22.789 (1.096) 95 765767 78.56- 178.56 130.67

22.789 22.789 (1.096) 176 573375 47.64- 147.64 97.84

12 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

5.950 5.923 (0.429) 85 21290 0.58960 0.8195 80.00- 120.00 100.00

5.950 5.923 (0.429) 87 6879 0.00- 82.07 32.31

45 Acetone

CAS #: 67-64-1

10.208 10.181 (0.735) 58 17160 2.19963 3.057 80.00- 120.00 100.00

10.208 10.181 (0.735) 43 62331 259.05- 359.05 363.23

114 Toluene

CAS #: 108-88-3

18.337 18.337 (1.173) 91 46640 0.88922 1.236 80.00- 120.00 100.00

18.337 18.310 (1.173) 92 28488 11.41- 111.41 61.08

Report Date: 07-Dec-2007 15:13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msdt.i
Lab File ID: t120418.d
Lab Smp Id: 0711487-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: abCalibration Date: 04-DEC-2007
Calibration Time: 09:44Level: LOW
Sample Type: AIR

Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m

Misc Info: 1.0"Hg -> 5psi

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	355566	213340	497792	245906	-30.84
97 1,4-Difluorobenze	1769240	1061544	2476936	1108046	-37.37
126 Chlorobenzene-d5	1250441	750265	1750617	899532	-28.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.86	13.53	14.19	13.89	0.20
97 1,4-Difluorobenze	15.60	15.27	15.93	15.63	0.18
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 04Dec2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0711487-02A
Level: LOW Operator: ab
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m
Misc Info: 1.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 90 1,2-Dichloroethane	25.000	24.863	99.45	70-130
\$ 113 Toluene-d8	25.000	27.479	109.92	70-130
\$ 137 Bromofluorobenzene	25.000	25.934	103.74	70-130

Data File: /chem/msdt,i/04Dec2007,b/t120418.d

Date : 05-DEC-2007 01:34

Client ID:

Sample Info: 200mL #21015

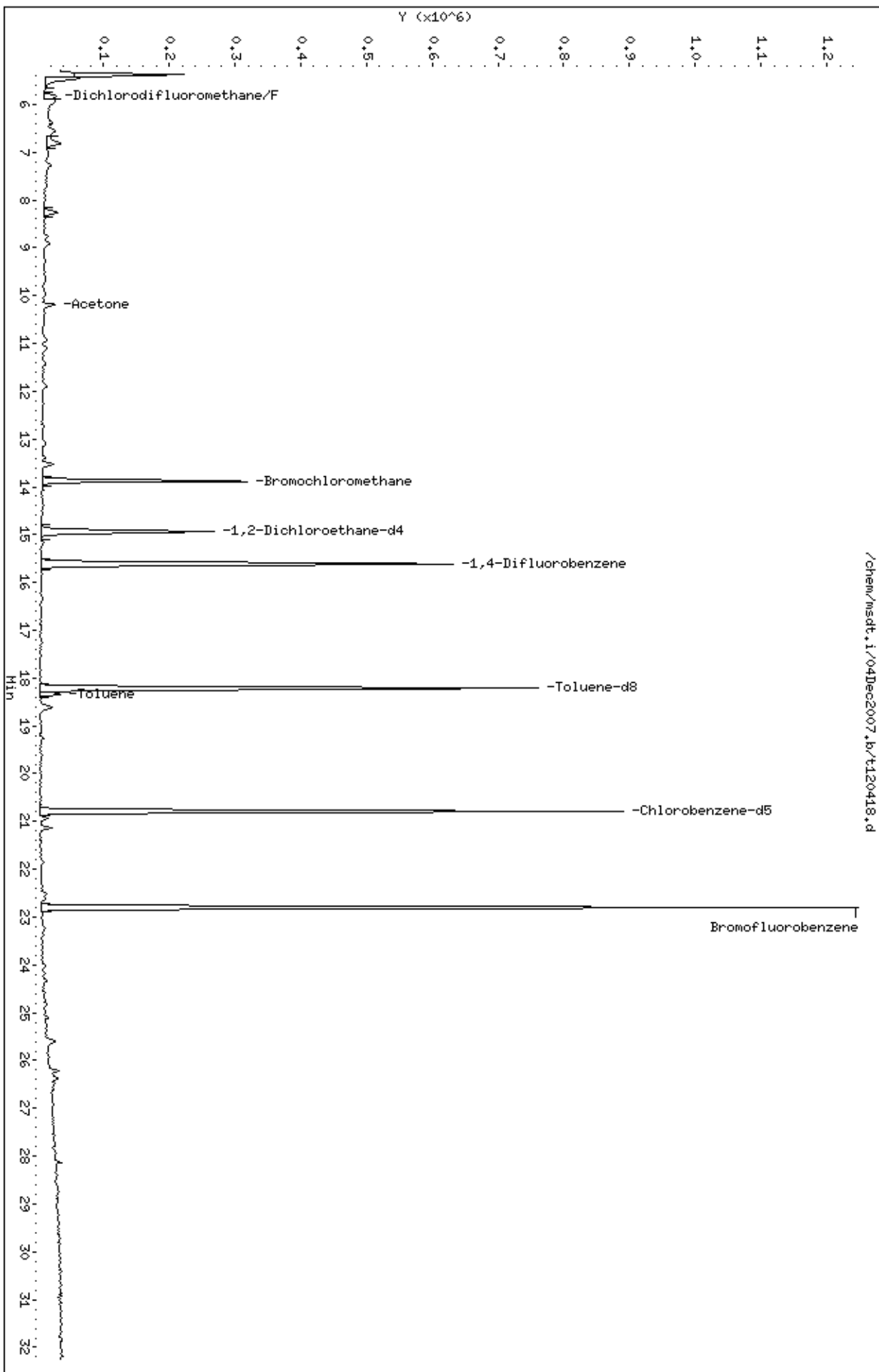
Column phase: RTX-624

Instrument: msdt,i

Operator: ab

Column diameter: 0.53

/chem/msdt,i/04Dec2007,b/t120418.d



Date : 05-DEC-2007 01:34

Client ID:

Instrument: msdt.i

Sample Info: 200mL #21015

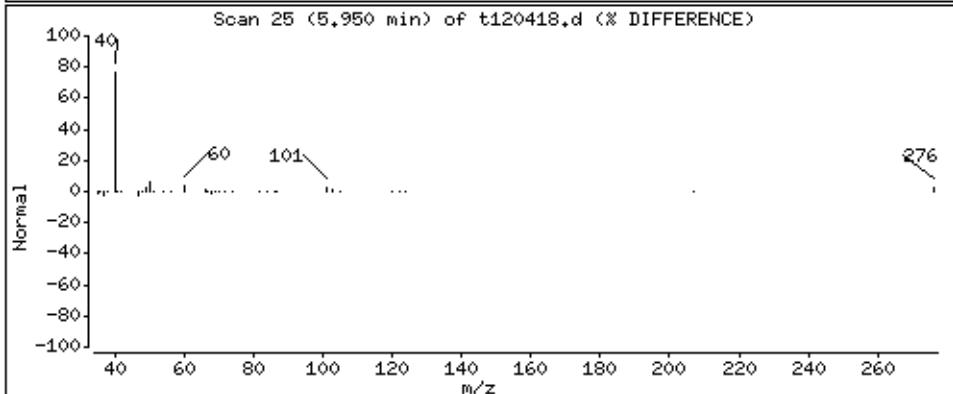
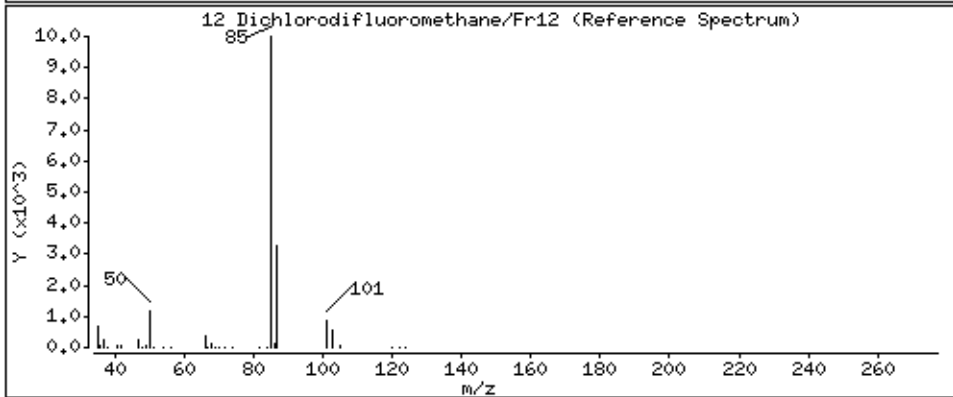
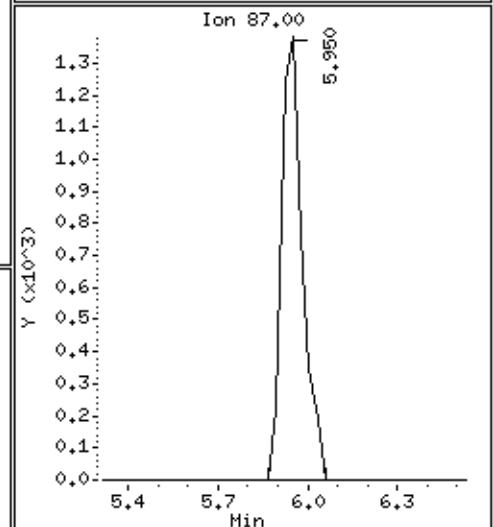
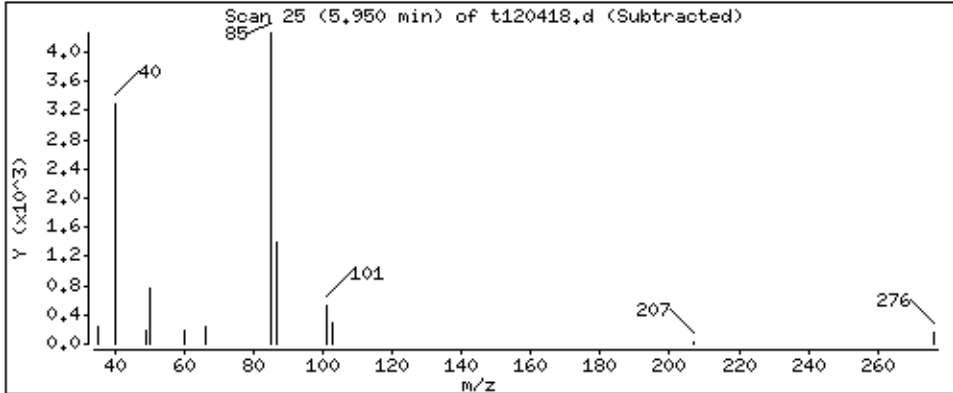
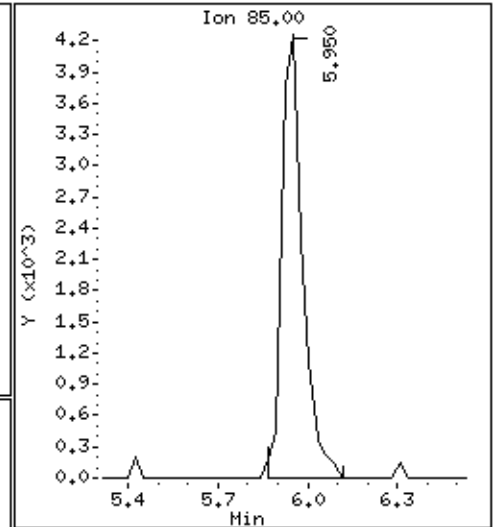
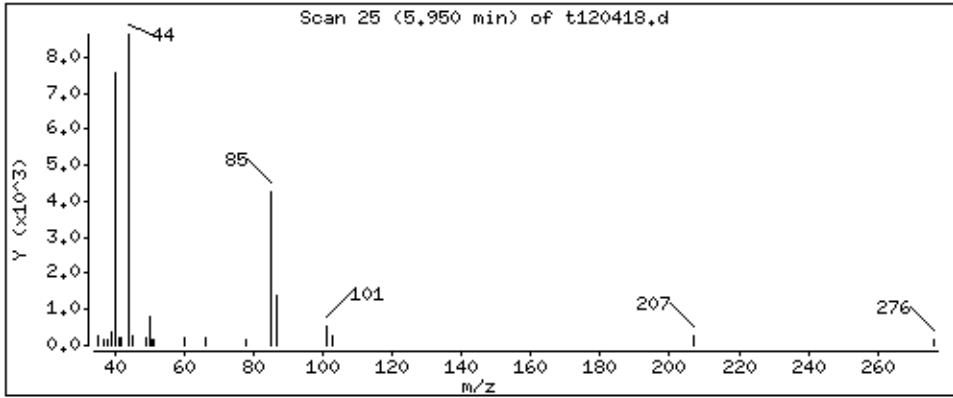
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

12 Dichlorodifluoromethane/Fr12

Concentration: 0.8195 PPBV



Date : 05-DEC-2007 01:34

Client ID:

Instrument: msdt,i

Sample Info: 200mL #21015

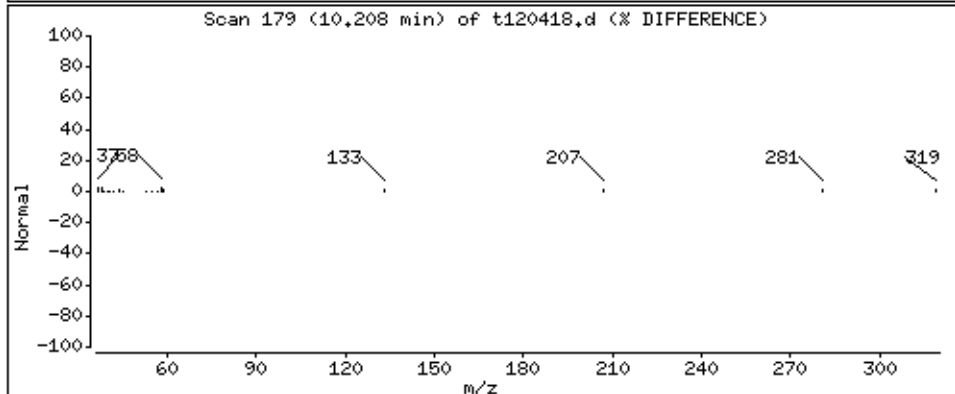
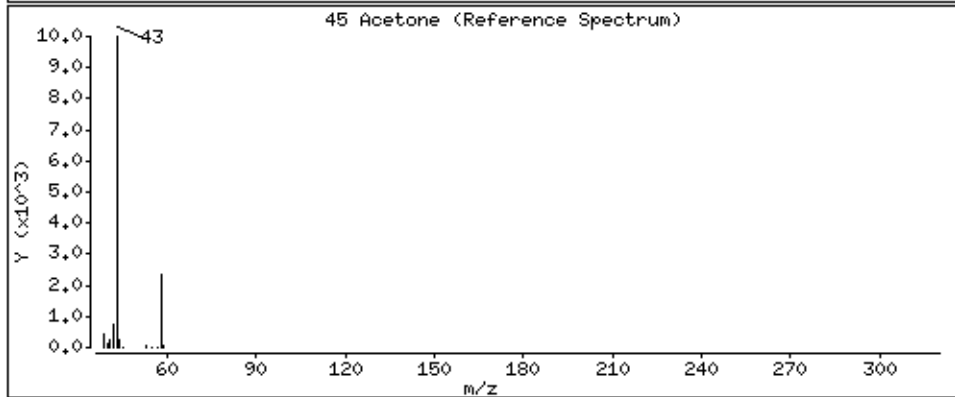
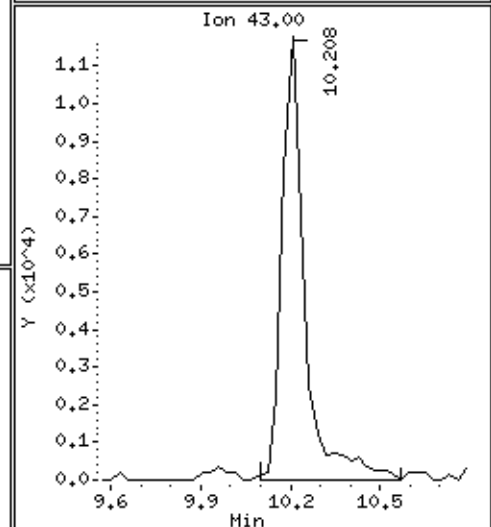
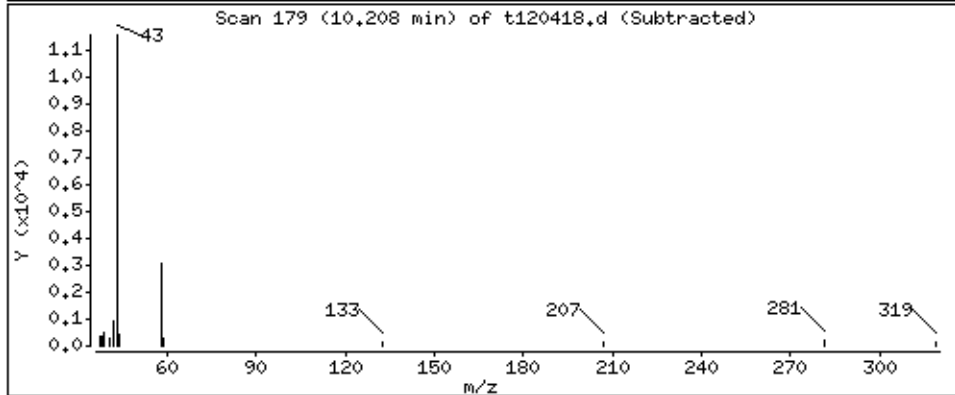
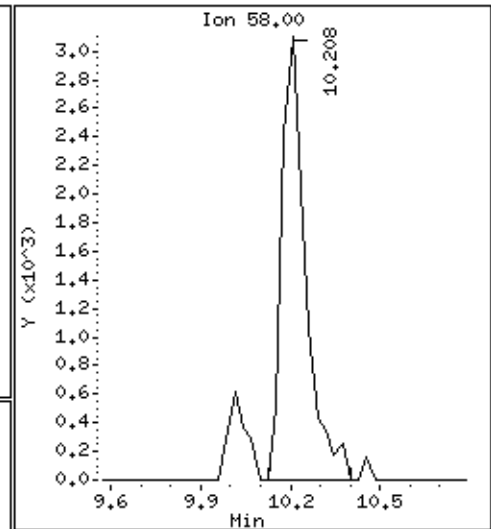
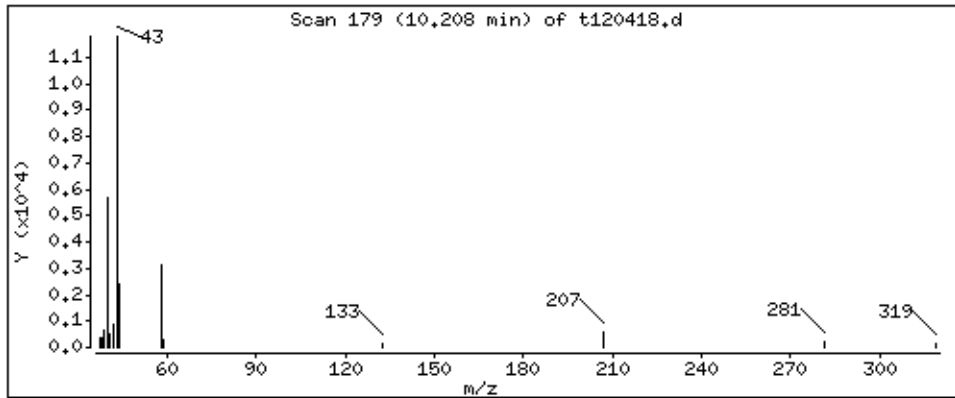
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

45 Acetone

Concentration: 3,057 PPBV



Date : 05-DEC-2007 01:34

Client ID:

Instrument: msdt.i

Sample Info: 200mL #21015

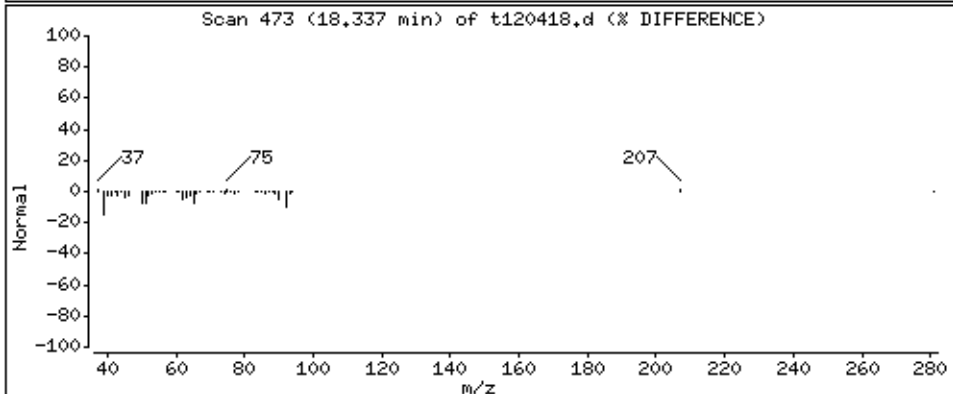
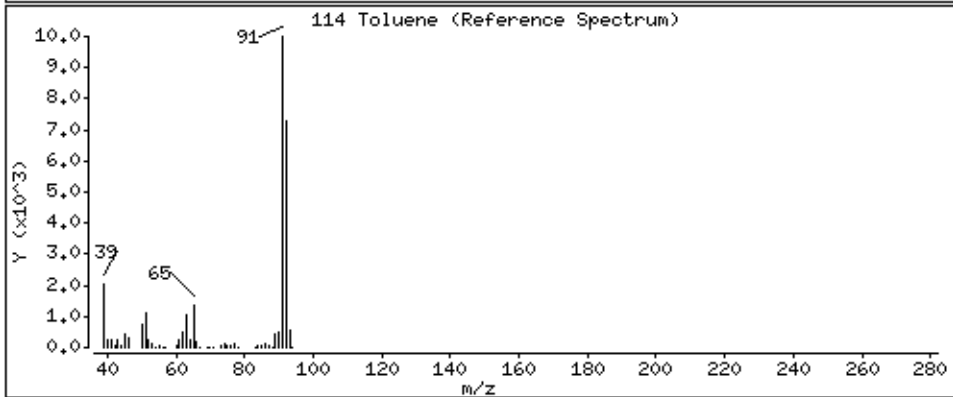
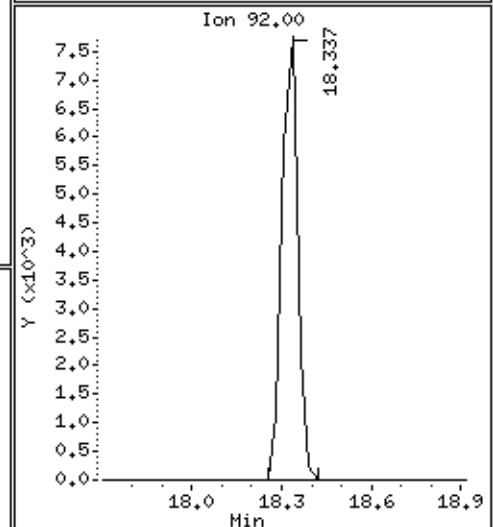
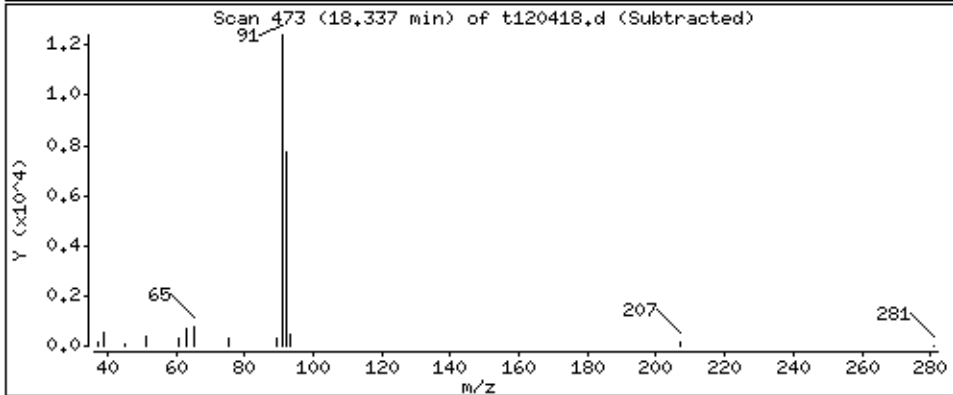
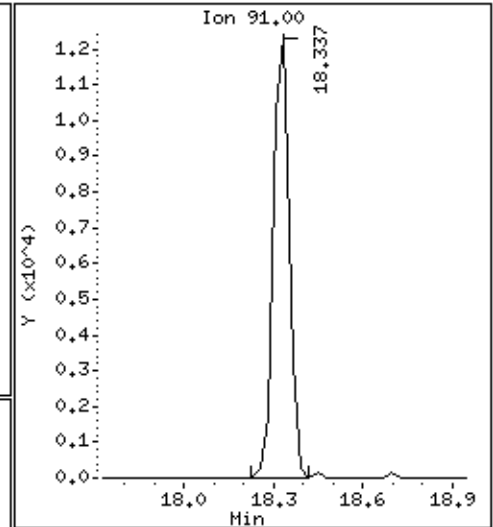
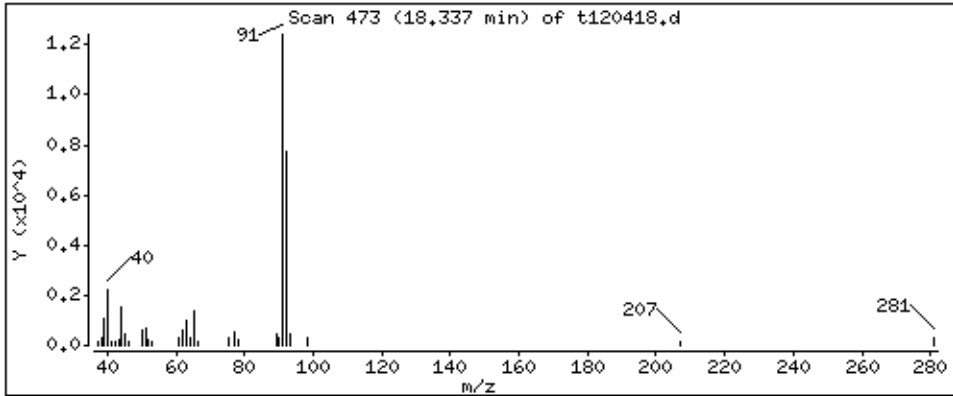
Operator: ab

Column phase: RTX-624

Column diameter: 0.53

114 Toluene

Concentration: 1.236 PPBV



QC Results and Raw Data



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0711487-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120405	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/07 12:40 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#: 0711487-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120405	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/07 12:40 PM

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 04-Dec-2007 13:35

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/04Dec2007.b/t120405.d
 Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
 Inj Date : 04-DEC-2007 12:40
 Operator : sjr Inst ID: msdt.i
 Smp Info : 200mL #12009
 Misc Info : Humid
 Comment :
 Method : /chem/msdt.i/04Dec2007.b/t14q1121b.m
 Meth Date : 04-Dec-2007 13:33 sruth Quant Type: ISTD
 Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04fr152a.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	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.858	13.858	(1.000)	130	309796	25.0000		80.00- 120.00	100.00	
13.858	13.858	(1.000)	128	233457			29.93- 129.93	75.36	
13.858	13.858	(1.000)	49	322201			108.51- 208.51	104.00	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.600	(1.000)	114	1353296	25.0000		80.00- 120.00	100.00	
15.600	15.600	(1.000)	88	216069			0.00- 66.48	15.97	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	1136261	25.0000		80.00- 120.00	100.00	
20.798	20.798	(1.000)	82	641207			4.93- 104.93	56.43	

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.937	(1.078)	65	441330	22.0995	22.100	80.00- 120.00	100.00	
14.936	14.937	(1.078)	67	222566			5.03- 105.03	50.43	

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199	(1.165)	98	1285515	28.0617	28.062	80.00- 120.00	100.00	
18.199	18.199	(1.165)	70	142727			0.00- 61.02	11.10	

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
== ===== ===== ===== ===== ===== =====

\$ 113 Toluene-d8 (continued)

18.199 18.199 (1.165) 100 892643 19.45- 119.45 69.44

\$ 137 Bromofluorobenzene

CAS #: 460-00-4

22.789 22.789 (1.096) 174 730922 25.6079 25.608 80.00- 120.00 100.00

22.789 22.789 (1.096) 95 934013 78.56- 178.56 127.79

22.789 22.789 (1.096) 176 707324 47.64- 147.64 96.77

Report Date: 04-Dec-2007 13:35

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 04-DEC-2007

Lab File ID: t120405.d

Calibration Time: 09:44

Lab Smp Id: Lab Blank

Client Smp ID: Lab Blank

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m

Misc Info: Humid

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	355566	213340	497792	309796	-12.87
97 1,4-Difluorobenze	1769240	1061544	2476936	1353296	-23.51
126 Chlorobenzene-d5	1250441	750265	1750617	1136261	-9.13

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.86	13.53	14.19	13.86	0.00
97 1,4-Difluorobenze	15.60	15.27	15.93	15.63	0.18
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 04Dec2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04fr152a.sub
Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 90 1,2-Dichloroethane	25.000	22.100	88.40	70-130
\$ 113 Toluene-d8	25.000	28.062	112.25	70-130
\$ 137 Bromofluorobenzene	25.000	25.608	102.43	70-130

Data File: /chem/msdt,i/04Dec2007,b/t120405.d

Date : 04-DEC-2007 12:40

Client ID: Lab Blank

Sample Info: 200mL #12009

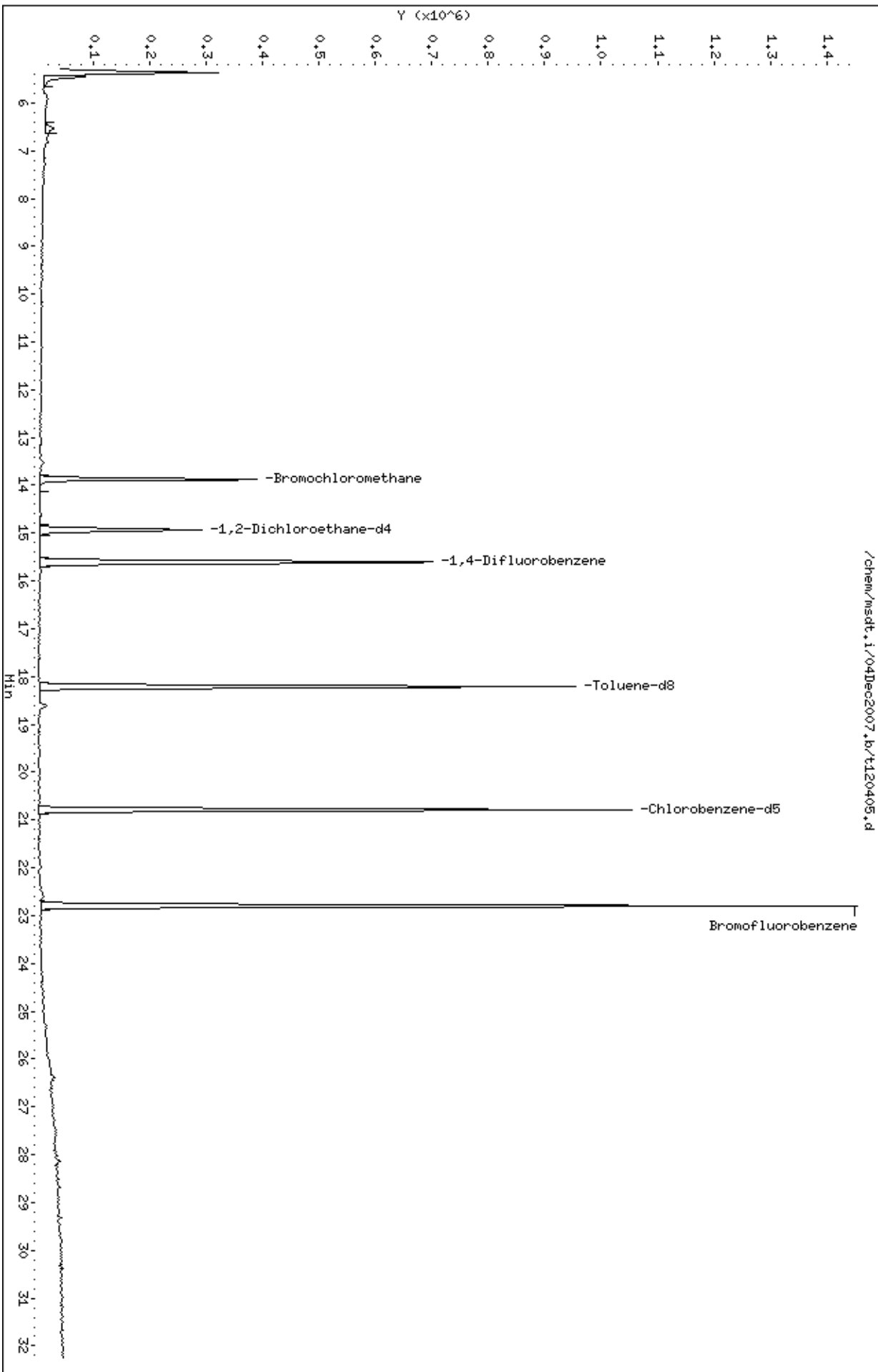
Column phase: RTX-624

Instrument: msdt,i

Operator: sjr

Column diameter: 0.53

/chem/msdt,i/04Dec2007,b/t120405.d



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0711487

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							
	1,2-Dichloroethane-d 4	#	Toluene-d8	#	4-Bromofluorobenze ne	#	TOTAL OUT	
01	UW-AMS-1	100		111		102		0
02	DW-AMS-5	99		110		104		0
03	Lab Blank	88		112		102		0
04	CCV	108		101		98		0
05	LCS	107		97		100		0
06								0
07								0
08								0
09								0
10								0
11								0
12								0
13								0
14								0
15								0
16								0
17								0
18								0
19								0
20								0
21								0
22								0
23								0
24								0

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130

Toluene-d8 70 - 130

4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
 Lab File ID: t120402.d
 Instrument ID: msdt.i

SDG No: 0711487
 Date Analyzed: 12/04/2007
 Time Analyzed: 09:44 AM

	Chlorobenzene-d5			1,4-Difluorobenzene			Bromochloromethane		
	Area	#	RT	Area	#	RT	Area	#	RT
24-HOUR STD	1250441		20.8	1769240		15.6	355566		13.86
UPPER LIMIT	1750617		21.13	2476936		15.93	497792		14.19
LOWER LIMIT	750265		20.47	1061544		15.27	213340		13.53
CLIENT SAMPLE NO									
01 UW-AMS-1	956844		20.8	1149864		15.63	251136		13.89
02 DW-AMS-5	899532		20.8	1108046		15.63	245906		13.89
03 Lab Blank	1136261		20.8	1353296		15.63	309796		13.86
04 CCV	1250441		20.8	1769240		15.6	355566		13.86
05 LCS	1264162		20.8	1905131		15.63	376079		13.86
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

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

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

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
 End Cal Date : 26-NOV-2007 15:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Calibration File Names:

- Level 1: /chem/msdt.i/23Nov2007.b/t112302.d
- Level 2: /chem/msdt.i/21Nov2007.b/t112103.d
- Level 3: /chem/msdt.i/26Nov2007.b/t112602.d
- Level 4: /chem/msdt.i/26Nov2007.b/t112608.d
- Level 5: /chem/msdt.i/26Nov2007.b/t112603.d
- Level 6: /chem/msdt.i/21Nov2007.b/t112107.d
- Level 7: /chem/msdt.i/26Nov2007.b/t112604.d

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	___	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	200.000							
	Level 7							
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 143a	+++++	+++++	1.54655	1.31158	1.60651	+++++	1.60785	16.856
	1.96677							
6 Freon142b	+++++	+++++	2.21817	2.00205	2.55010	+++++	2.38938	14.567
	2.78722							

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 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	Level 7	RRF	% RSD
7 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
8 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
9 Freon 13	+++++	+++++	2.29492	2.11800	2.54471	+++++		2.18039	15.053
199 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
13 Freon 134a	+++++	+++++	1.09127	0.94650	1.16608	+++++		1.13153	13.827
10 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
11 Propylene	+++++	+++++	0.72558	0.65992	0.62849	0.59709		0.66613	8.428
15 Freon 152a	+++++	+++++	0.56426	0.47439	0.60412	+++++		0.58560	15.947
12 Dichlorodifluoromethane/Fr12	+++++	3.50242	3.60064	3.77635	3.57377	3.47716		3.67107	6.355
17 Freon 22	+++++	+++++	0.28504	0.25517	0.30782	+++++		0.29894	13.054

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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 End Cal Date : 26-NOV-2007 15:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	200.000							
	Level 7							
14 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
16 Freon 114	+++++	2.33292	2.14875	2.49476	2.30497	2.24733		
	2.75549						2.38070	9.069
18 Chloromethane	+++++	+++++	0.90394	0.83722	0.79563	0.77526		
	0.92274						0.84696	7.666
21 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
20 Vinyl Chloride	+++++	0.94156	1.11057	1.20736	1.17561	1.15564		
	1.36031						1.15851	11.758
19 Butane	+++++	+++++	0.21370	0.25678	0.22426	0.20885		
	0.23020						0.22676	8.282
22 1,3-Butadiene	+++++	0.81436	0.89224	1.12603	0.97142	0.90013		
	0.95504						0.94320	11.162
26 Methanol	+++++	+++++	+++++	0.23807	0.24297	+++++		
	0.28987						0.25697	11.129
25 Bromomethane	+++++	0.79613	0.87758	1.09925	1.08838	1.09367		
	1.33975						1.04913	18.282
28 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
27 Chloroethane	+++++	0.38297	0.51840	0.59779	0.58379	0.59717		
	0.72760						0.56795	19.944
29 Isopentane	+++++	+++++	1.72717	2.05345	1.86900	1.79074		
	1.72025						1.83212	7.503
30 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Dichlorofluoromethane/Fr21	+++++	+++++	1.93431	1.62716	2.10340	+++++		
	2.34386						2.00218	15.046
35 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
31 Trichlorofluoromethane/Fr11	+++++	4.10981	4.59215	5.53054	4.91882	4.68522		
	4.75085						4.76457	9.734
37 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
32 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
33 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
36 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
47 Carbon Disulfide	+++++	2.86485	3.42390	4.04234	3.82908	3.83880		
	4.33590						3.72248	13.845
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 3-Chloropropene	+++++	+++++	0.60369	0.85195	0.80655	0.80664		
	0.78926						0.77162	12.533
52 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Methylene Chloride	+++++	1.32453	1.31636	1.41328	1.27362	1.21197		
	1.30724						1.30783	5.052

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
 End Cal Date : 26-NOV-2007 15:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
57 tert-Butyl-Alcohol	+++++	+++++	1.88380	1.14965	1.21554	+++++		
	1.04786						1.32421	28.650
58 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 MTBE	+++++	1.78296	1.82181	2.10300	1.88646	2.15582		
	2.52558						2.04594	13.654
61 trans-1,2-Dichloroethene	+++++	1.44448	1.64779	1.95222	1.88004	1.88406		
	1.85676						1.77756	10.862
62 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Hexane	+++++	2.27569	2.67533	3.21369	3.05738	3.02708		
	3.24441						2.91560	12.803

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
 End Cal Date : 26-NOV-2007 15:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
67 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++						+++++	+++++
68 Isopropyl ether	+++++	+++++	3.84074	3.37153	4.58385	+++++		
	4.62518						4.10532	14.801
69 Vinyl Acetate	+++++	+++++	0.36829	0.49620	0.48367	0.50840		
	0.52899						0.47711	13.222
70 1,1-Dichloroethane	+++++	2.30431	2.79046	3.43078	3.19713	3.19847		
	3.20270						3.02064	13.490
71 1-Propanol	+++++	+++++	0.23636	0.15769	0.23530	+++++		
	0.23478						0.21603	18.006
24 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
72 2,4,4-Trimethyl-2-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
73 t-Butylethyl Ether	+++++	+++++	2.09818	1.71005	2.06590	+++++		
	2.10676						1.99522	9.569
74 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
77 Ethyl Acetate	+++++	+++++	0.39633	0.37031	0.49078	+++++		
	0.47326						0.43267	13.499

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
78 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++						+++++	+++++
75 2-Butanone	+++++	0.68206	0.89205	1.09161	1.05019	1.07110		
	1.11493						0.98366	17.030
76 cis-1,2-Dichloroethene	+++++	1.60324	1.99804	2.46268	2.29353	2.32637		
	2.30679						2.16511	14.528
79 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 Tetrahydrofuran	+++++	1.34629	1.48377	1.84256	1.70788	1.69733		
	1.70782						1.63094	11.095
82 Chloroform	2.29391	2.59340	3.36210	4.01510	3.73382	3.77471		
	3.80208						3.36787	19.771
84 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
83 1,1,1-Trichloroethane	+++++	2.80116	3.56183	3.85429	3.63065	3.61986		
	3.93333						3.56685	11.285
85 Cyclohexane	+++++	1.49426	1.73022	2.14652	2.09597	2.14083		
	2.39566						2.00058	16.360
86 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 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	Level 7	RRF	% RSD
88 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
87 Carbon Tetrachloride	+++++	2.50109	3.24928	3.71050	3.48084	3.44130		3.34780	13.434
99 Isobutanol	+++++	+++++	0.00453	0.00425	0.00712	+++++		0.00620	35.680
89 2,2,4-Trimethylpentane	+++++	6.01625	7.00493	8.08998	7.15766	6.95976		7.10496	9.498
91 Benzene	0.95618	0.88915	1.00030	1.21177	1.14717	1.11999		1.06658	11.101
92 tert-amyl-Methyl Ether	+++++	+++++	2.71530	2.18238	2.43527	+++++		2.36073	11.626
96 2-Heptanone	+++++	+++++	1.03462	1.13205	2.01717	+++++		1.66072	41.658 <-
93 1,2-Dichloroethane	+++++	0.41019	0.46753	0.58346	0.53344	0.51824		0.50146	11.811
94 Heptane	+++++	0.28573	0.32331	0.43539	0.42104	0.40486		0.38484	16.750
95 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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 Integrator : HP RTE
 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 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	Level 7	RRF	% RSD
98 1-Butanol	+++++	+++++	0.10085	0.09838	0.18297	+++++		0.12740	37.789
100 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
101 Trichloroethene	+++++	0.35627	0.47140	0.56368	0.51858	0.50233		0.48692	14.505
102 Methyl Cyclohexane	+++++	2.05069	2.27887	2.76087	2.68838	2.70069		2.59023	14.042
103 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
104 1,2-Dichloropropane	+++++	0.31528	0.35519	0.40116	0.37409	0.36079		0.36470	7.999
106 1,4-Dioxane	+++++	+++++	0.25082	0.33304	0.33487	0.31599		0.31632	12.089
105 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
107 Bromodichloromethane	+++++	0.58909	0.73929	0.91743	0.84992	0.82371		0.79448	14.579
108 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	200.000							
	Level 7							
200 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 cis-1,3-Dichloropropene	+++++	0.39434	0.51807	0.66809	0.63512	0.60521	0.58102	18.377
111 4-Methyl-2-pentanone	+++++	0.23698	0.27864	0.41546	0.40815	0.39500	0.36356	23.304
112 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 Toluene	+++++	0.91840	1.08008	1.30553	1.24428	1.19251	1.18340	13.660
115 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 trans-1,3-Dichloropropene	+++++	0.53829	0.77024	1.01467	0.94964	0.89862	0.84279	20.127
117 1,1,2-Trichloroethane	+++++	0.40104	0.55971	0.71133	0.65246	0.61446	0.59034	17.929
120 Tetrachloroethene	+++++	0.55819	0.75235	0.94980	0.87163	0.81833	0.78940	16.822

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 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	200.000							
	Level 7							
121 2-Hexanone	+++++	+++++	0.53366	0.84422	0.83171	0.79943		
	0.81867						0.76554	17.070
118 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 Butyl Acetate	+++++	+++++	0.19184	0.18494	0.29204	+++++		
	0.36585						0.25867	33.483
122 Dibromochloromethane	+++++	0.66292	0.89136	1.19834	1.10324	1.04375		
	0.99444						0.98234	19.072
123 1,2-Dibromoethane	+++++	0.65991	0.85652	1.12598	1.05468	1.00759		
	0.98964						0.94905	17.612
127 Chlorobenzene	+++++	1.05245	1.19171	1.52058	1.44322	1.37153		
	1.36077						1.32338	12.988
124 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Ethyl Benzene	+++++	0.45011	0.63535	0.79402	0.76511	0.73019		
	0.73269						0.68458	18.507
125 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
129 m,p-Xylene	+++++	0.57463	0.72712	0.99793	0.95797	0.92446		
	0.92128						0.85057	19.325

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 Cal Date : 27-Nov-2007 14:03 lover
 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	Level 7	RRF	% RSD
130 o-Xylene	200.000 0.84399	0.54263	0.65293	0.92409	0.88543	0.85337		0.78374	19.246
131 Styrene	0.61568 1.52483	0.83130	1.04212	1.58519	1.55527	1.51726		1.23881	32.499<-
132 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
133 Bromoform	+++++ 1.00056	0.64342	0.79330	1.07280	1.04595	1.02177		0.92963	18.510
134 Cumene	1.32332 2.37283	1.52327	1.86225	2.53730	2.43673	2.35124		2.05813	23.656
135 Cyclohexanone	+++++ 0.44027	+++++	0.25675	0.25096	0.38587	+++++		0.33346	28.368
140 1,1,2,2-Tetrachloroethane	+++++ 1.33559	0.87915	1.14560	1.41240	1.36539	1.34501		1.24719	16.212
136 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
138 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
142 Propylbenzene	+++++ 2.94975	1.90562	2.29708	3.12509	3.04444	2.95229		2.71238	18.195

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 Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Cal Date : 27-Nov-2007 14:03 lover
 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	Level 7	RRF	% RSD
139 Decane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
144 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
145 4-Ethyltoluene	+++++	1.57859	1.97893	2.67059	2.58333	2.51806		2.30684	18.727
141 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	1.25786	1.68230	2.21802	2.14192	2.07872		1.91002	19.359
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	0.57298	0.59865	1.00553	+++++		0.82273	33.705
148 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
150 1,2,4-Trimethylbenzene	+++++	1.20977	1.51065	2.13392	2.07891	2.00252		1.82179	20.503
201 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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 Cal Date : 27-Nov-2007 14:03 lover
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	200.000							
	Level 7							
160 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dichlorobenzene	+++++	0.94916	1.20554	1.42015	1.38921	1.32430		
	1.32138						1.26829	13.630
203 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
162 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
164 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
165 1,2,4-Trichlorobenzene	+++++	+++++	1.18734	1.20115	1.32931	1.13822		
	1.20929						1.21306	5.819
166 Hexachlorobutadiene	+++++	+++++	0.92568	0.86990	0.92370	0.84984		
	0.86531						0.88689	3.981
167 Naphthalene	+++++	+++++	1.58028	1.69783	1.98661	1.66153		
	1.79853						1.74496	8.950
202 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
168 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
169 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
170 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
\$ 90 1,2-Dichloroethane-d4	1.55234 1.73821	1.60269	1.58244	1.57657	1.57184	1.65678		1.61155	4.031
\$ 113 Toluene-d8	0.82244 0.93069	0.85056	0.84326	0.82462	0.82887	0.82348		0.84627	4.580
\$ 137 Bromofluorobenzene	0.57952 0.64784	0.63358	0.62503	0.62525	0.63434	0.65043		0.62800	3.754

Calibration History

Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Start Cal Date: 21-NOV-2007 14:44
 End Cal Date : 26-NOV-2007 15:28

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
23-NOV-2007 08:54	AFCEElow	/chem/msdt.i/23Nov2007.b/t112302.d
Cal Level: 2 , Cal Amount: 0.50000		
21-NOV-2007 14:44	AT04low+ENSR	/chem/msdt.i/21Nov2007.b/t112103.d
Cal Level: 3 , Cal Amount: 2.00000		
26-NOV-2007 09:59	sp22b	/chem/msdt.i/26Nov2007.b/t112602.d
21-NOV-2007 15:48	AT04mdl+ENSR	/chem/msdt.i/21Nov2007.b/t112104.d
Cal Level: 4 , Cal Amount: 25.00000		
26-NOV-2007 15:28	sp22b	/chem/msdt.i/26Nov2007.b/t112608.d
21-NOV-2007 16:33	AT04ENSR	/chem/msdt.i/21Nov2007.b/t112105.d
Cal Level: 5 , Cal Amount: 50.00000		
26-NOV-2007 10:49	sp22b	/chem/msdt.i/26Nov2007.b/t112603.d
21-NOV-2007 17:45	AT04ENSR	/chem/msdt.i/21Nov2007.b/t112106.d
Cal Level: 6 , Cal Amount: 100.00000		
21-NOV-2007 18:24	AT04mdl+ENSR	/chem/msdt.i/21Nov2007.b/t112107.d
Cal Level: 7 , Cal Amount: 200.00000		
26-NOV-2007 11:39	sp22b	/chem/msdt.i/26Nov2007.b/t112604.d
21-NOV-2007 19:02	AT04mdl+ENSR	/chem/msdt.i/21Nov2007.b/t112108.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

+-----+-----+-----+		
Ccal Level: 5 , Ccal Amount: 50.000		
+=====+		
26-NOV-2007 12:34 AT04ENSR	/chem/msdt.i/26Nov2007.b/t112605.d	
+-----+-----+-----+		
Ccal Level: 5 , Ccal Amount: 50.000		
+=====+		
26-NOV-2007 10:49 sp22b	/chem/msdt.i/26Nov2007.b/t112603.d	
+-----+-----+-----+		
Ccal Level: 5 , Ccal Amount: 50.000		
+=====+		
26-NOV-2007 10:49 sp22bccv	/chem/msdt.i/26Nov2007.b/t112603a.d	
+-----+-----+-----+		

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-T on November 21, 2007.

1. The following compounds used 0.2 ppbv as the lowest calibration concentration:
Chloroform, Benzene, Cumene, and Styrene.
2. As noted on the accompanying analytical run logs, the 0.2ppbv, Level 1 point was re-analyzed due to:
 - a. anomalous unacceptable linearity for Cumene and Styrene.

@ Air Toxics Ltd.

MSD-T

Logbook #: 1599

ION ABUNDANCE CRITERIA

% REL. ABUNDANCE

50	15.0 - 40.0% of mass 95	19.19
75	30.0 - 60.0% of mass 95	48.59
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.52
173	Less than 2.0% of mass 174	(0.75) ¹
174	Greater than 50.0% of mass 95	76.68
175	5.0 - 9.0% of mass 174	(7.15) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.60) ¹
177	5.0 - 9.0% of mass 176	(6.53) ²

¹ - value in parenthesis is % mass 174

Verify 176/174 m/z Ratio: $\frac{96.60}{101.00} = 96.595\%$

BFB Injection Date: 11/21/07
 BFB Injection Time: 1334
 BFB File ID: T112101
 Tekmar Purge Flow: 2000ml/min
 Vacuum: 2000ml/min

IS/S Std #: 1443-355	Exp. Date: 2/5/08
BCM	306974
1,4-DFB	1370844
CB-d5	9168009

Verified CCV IS vs ICAL mid-point (-40%AD) 89

NOAH Cart #: AAA File #: AAA

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{Std}}} \times \text{Conc.}_{\text{Std}} \times \text{RRF}$

$\frac{(1136245)}{(1870844)} \times (25.00) \times (0.241627) = 24.48584$

Reported Result: 24.486

File ID: T112101
 Compound: Tol-d8
 Initials: 89

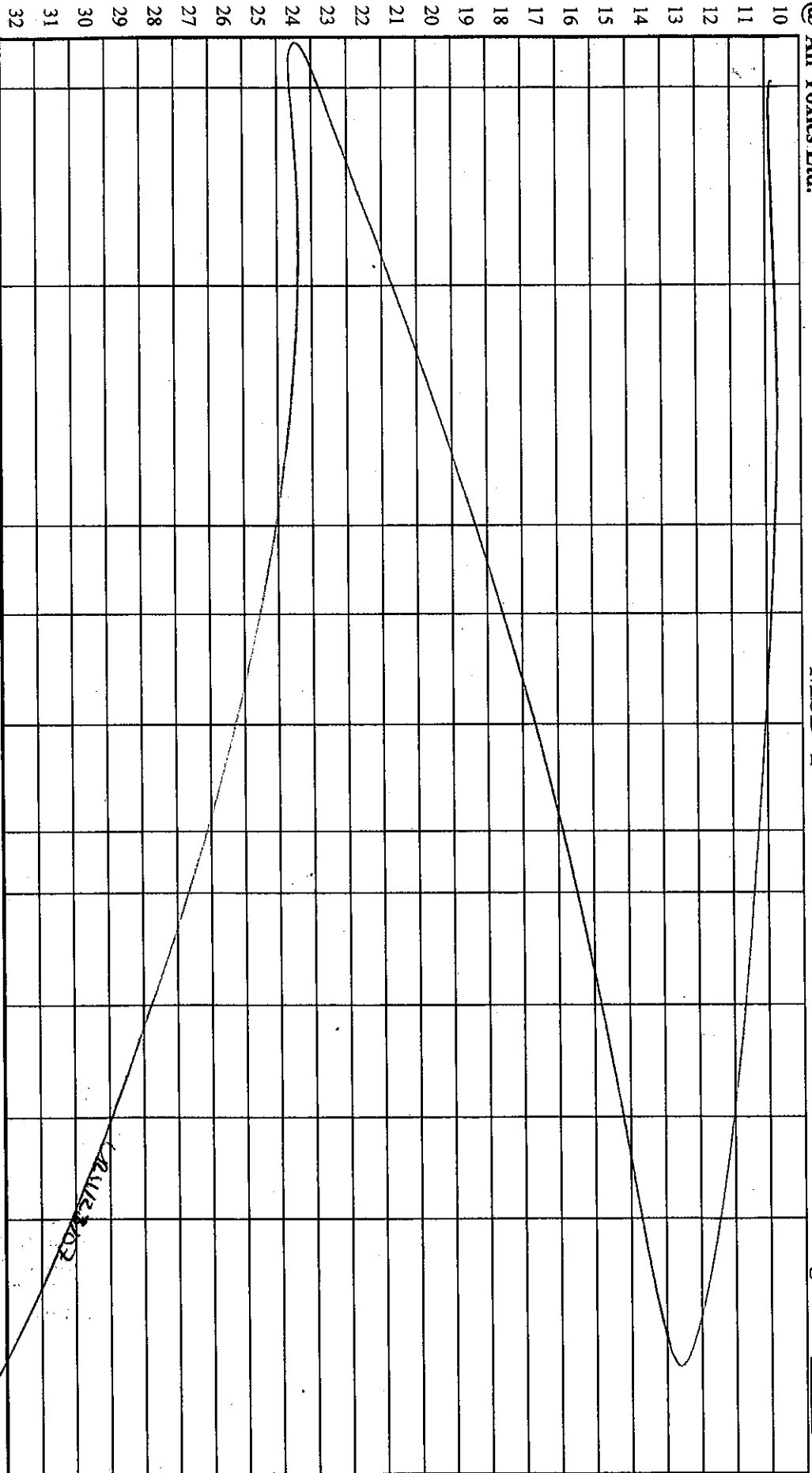
Sample/Client Name	Can #	Pressure	Am't Loaded	DR	Date Analyzed	Time Analyzed	Review Init.	Comments
BFB TUNE CHECK	1467-58	50mg	2.0uL	100	11/21/07	1334	TA	
ICAL Wnd 1	1576-92	0.3ppbv	0.2uL			1406	BA	ICAL 11/21/07
		0.5 ppbv	0.5 mL			1444		
		2.0ppbv	2.0ppbv			1548		
		25ppbv	25mL			1693		
		50ppbv	50mL			1745		
		100ppbv	100mL			1829		
		200ppbv	200mL			1982		
		Humid	200mL			2232	80	in level 2
System Blank	3449D	Humid	200mL					

Signature: [Signature] Date: 11/23/07

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MSD-T

Logbook #: 1599



Comments: Flow controller #AA98123220

Flow Meter #118912 Exp 7/1/08

Actual

Measured

25 m/min

22.9 m/min

~~25 m/min~~


Signature

11/23/07
Date

ION ABUNDANCE CRITERIA

% REL. ABUNDANCE

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	16.15
75	30.0 - 60.0% of mass 95	45.87
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.44
173	Less than 2.0% of mass 174	(0.78) ¹
174	Greater than 50.0% of mass 95	74.20
175	5.0 - 9.0% of mass 174	(7.21) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.45) ¹
177	5.0 - 9.0% of mass 176	(10.50) ²

BFB Injection Date: 11/23/07

BFB Injection Time: 0828

BFB File ID: T112301

Tekmar Purge Flow: 2 w/21/07

Vacuum:

IS/S Std #: 1443-355 Exp. Date: 2/5/08

BCM 304898

1,4-DFB 1710810

CB-d5 1199182

Verified CCY IS vs ICAL mid-point (-40% D) LR

NOAH Cart #: NA File #: LR

Verify 176/174 m/z Ratio: 1105920/1146880 x 100 = 96.43

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \text{Conc.}_{\text{std}} \times \text{RRF}$

$= \frac{(1459719)}{(1716810)} \times (25.0) \times (6.8407) = 25.118$

Reported Result: 25.17

File ID: T112303
Compound: Tol-d8
Initials: LR

Ass	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓ T11301	BFB Tune Check	1470-56	5.60g	2ul	1.00	11/23/07	0838	LR	
2	✓	ICAL LV1	1570-92	6.20g	0.2mL			0854	LR	
3	✓	CCV-1 (200ppb)	↓	50ppb	50mL			0932	LR	
4	✓	LCS-1 (200ppb)	1570-108	↓	↓			1012	LR	ICAL LCS
5	X	LAB Blank	34140	humid	200mL	↓		1055	LR	
6	✓	LAB Blank	1579	↓	↓			1143	LR	
7	X	0711328-01A	13365	6.0" H ₂ O	50mL	8.00		1225	LR	LR @ 35mL
8	✓	0711328-01A	03768	6.0" H ₂ O	200mL	1.00		1303	LR	
9	✓	0711092A-02A	35155	5.0" H ₂ O	↓	1.01		1351	LR/NA	

Signature

Date: 11/24/07

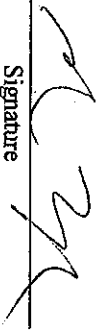
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Logbook #: 1599

10	✓	7112310	07110922A-02A	33862	810 ^{11/17}	2002M	1472	XP/OL	
11	✓	11	-04A	3425	7.0 ^{11/17}	2002M	1471	XP/OL	
12	✓	12	-05A	3424	210 ^{11/17}	2002M	1470	XP/OL	
13	✓	13	-06A	0824	200 ^{11/17}	2002M	1469	XP/OL	
14	✓	14	-07A	3431	40 ^{11/17}	2002M	1714	XP/OL	
15	✓	15	-08A	3338	40 ^{11/17}	2002M	1752	XP/OL	
16	✓	16	-09A	3324	40 ^{11/17}	2002M	1834	XP/OL	
17	✓	17	-04A	2061	25 ^{11/17}	2002M	1914	XP/OL	
18	✓	18	-05A	3474	50 ^{11/17}	2002M	2006	XP/OL	
19	✓	19	-06A	9464	25 ^{11/17}	2002M	2049	XP/OL	
20	✓	20	-07A	9443	50 ^{11/17}	2002M	2127	XP/OL	
21	✓	21	-08A	2203	0.0 ^{11/17}	2002M	2208	XP/OL	
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Comments:



 Signature

11/24/07

 Date

Revision 08/2007

 Page 150

024 11/24/07

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MSD-T

ION ABUNDANCE CRITERIA

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	17.59
75	30.0 - 60.0% of mass 95	48.58
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	(0.74) ¹
174	Greater than 50.0% of mass 95	73.17
175	5.0 - 9.0% of mass 174	(7.27) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.78) ¹
177	5.0 - 9.0% of mass 176	(6.52) ²

BFB Injection Date: 11/26/14 Logbook #: 1599

BFB Injection Time: 0857

BFB File ID: 7112601

Tekmar Purge Flow: 24720/07

Vacuum:

IS/Std #: 1445-355 Exp. Date: 2/5/2008

BCM: 328524

1,4-DFB: 1599892

CB-d5: 117054

Verified CCV IS vs ICAL mid-point (-40%D) 71

NOAH Cart #: 110 File #: 14

¹ - value in parenthesis is % mass 174
² - value in parenthesis is % mass 176
 Verify 176/174 m/z Ratio: 119.0058 / 122.4653 x 100 = 96.78

Calculation Check: (1353521) x (25.00) = 25.00

ppbv of compound = Area_{sample} / Area_{std} x Conc_{std} / RRF
(1599892) x (1599892) / (11126/102 Reported Result) = 25.00

% D	File #	Sample / Chart Name	Can #	Pressure	Amt Loaded	DR	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	7112601	BFB TUBE CHECK	1467-58	50mg	2.0uL	1.00	11/26/14	0857	EA/KR	
✓	02	IDL Lined 3	1467-42	2.0ppbv	2.0mg			0859	KR	
✓	03	IDL		2.0ppbv	2.0mg			1049	KR	4p220001
✓	04	IDL		2.0ppbv	2.0mg			1039	KR	
✓	05	IDL (220ppbv)	146-92	50ppbv	5.0mg			1234	EA/KR	
✓	06	IDL (220ppbv)	1546-108					1321	EA/KR	
✓	07	System blank	N/D	DM	2.0mg			1409	KR	
✓	08	IDL Lined 1	1467-412	8ppbv	8.0uL			1528	KR	
✓	09	System blank	1579	DM	2.0mg			1609	KR	

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MSD-T

Logbook #: 1599

	Lab	Blank	Humid	200ml	100	1/20/07	1703	1R	
10	F112610						1703	1R	
11	W	0711218 - 01A	94600	60 ^{11/4} Spis	6ml	800	1753	1R	RR 3ml
12	✓	-01A	↓	3ml	112		1841	1R	
13	✓	-02A	9414	35 ^{11/4} Spis	200ml	152	2017	1R	
14	✓	-03A	436	25 ^{11/4} Spis	200ml	146	2115	1R	
15	✓	-04A	3730	60 ^{11/4} Spis	2ml	168	2206	1R/RR	
16	✓	-08A	1734	3.0 ^{11/4} Spis	200ml	824	2305	1R/	
17	X	-01A	31976	8.5 ^{11/4} Spis	50ml	880	2350	1R/	RR@200ml
18	✓	-01A	↓	200ml	2.30	1123102	0042	1R/	
19	✓	-01A	1361	0.01 ^{11/4} Spis	200ml	202	0135	1R/	
20	✓	-06A	1352	↓	200ml	↓	0232	1R/	
21	✓	-07A	12382	2.0 ^{11/4} Spis	200ml	2.16	0337	1R/	
22	X	-05A	34096	0.01 ^{11/4} Spis	1.0ml	104	0448	1R/	RR@2ml
23	✓	-05A	↓	2.0ml	202		0545	1R/	
24	X	03A	12286	35 ^{11/4} Spis	50ml	910	07112	1R	100x RR 15ml
25									
26									
27									
28									
29									
30									
31									
32									

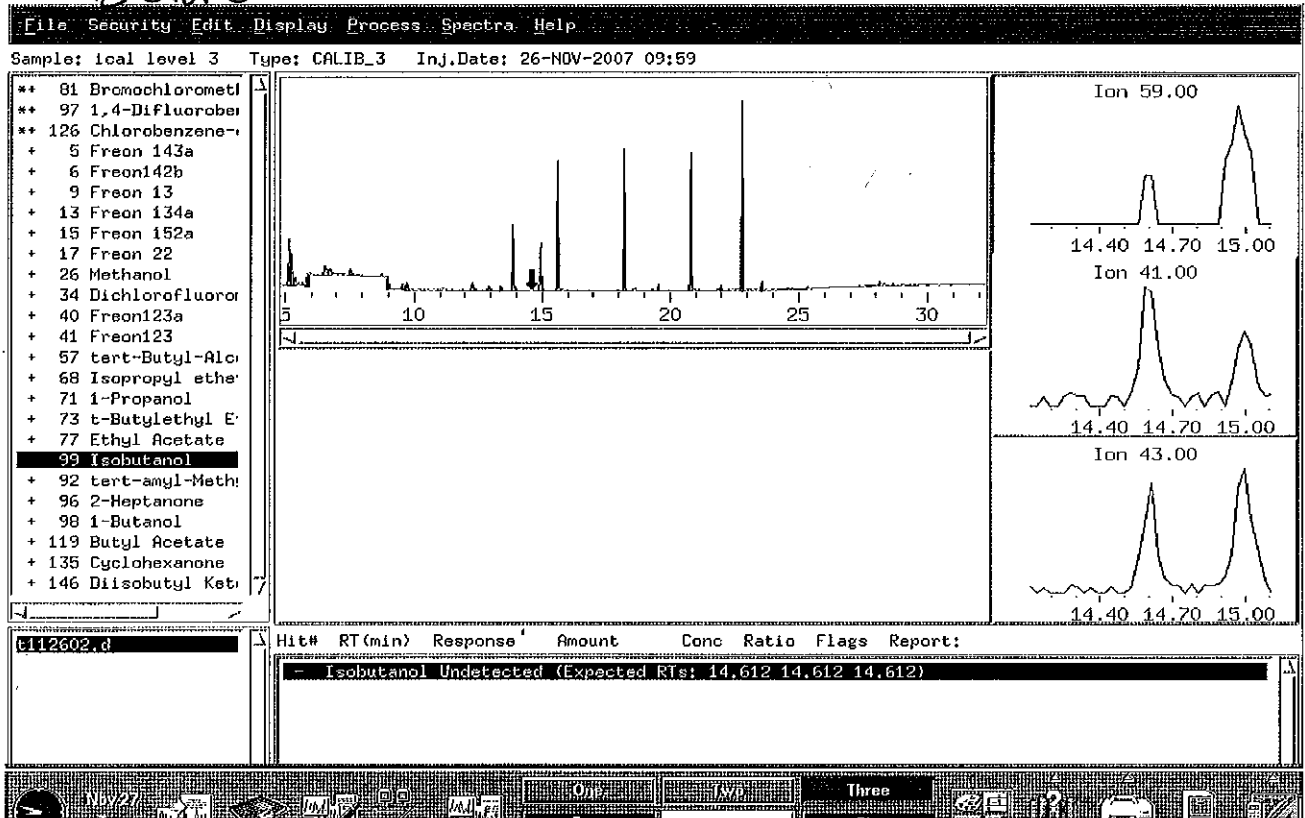
Comments:

F0112167

James D. Swamy
Signature

11/27/07
Date

Before



Team VOC

Date / Initial	11/27/07 <i>RD/ML</i>
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	<input checked="" type="checkbox"/>
Merged Peaks	

After

File Security Edit Display Process Spectra Help

Sample: ical level 3 Type: CALIB_3 Inj.Date: 26-NOV-2007 09:59

Manual Int

Time: [14.584]

Area: [514]

Height: [155]

Snap to Data

Snap to Int Marks

Overlap Peaks

Assign Baseline

Split Peak

- + 77 Ethyl Acetate
- + 99 Isobutanol**
- + 92 tert-amyl-Meth
- + 96 2-Heptanone
- + 98 1-Butanol
- + 119 Butyl Acetate
- + 135 Cyclohexanone
- + 146 Diisobutyl Ket

HP MS t112602.d, Scan 349: 14.584 min. (SUB)

Reference Spectrum for Isobutanol

Ion 59.00

Ion 41.00

Ion 43.00

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	14.584	514	1.463	1.463	100	al	
	14.612	0			0		
	14.612	0			0		
- Mark Isobutanol Undetected.							

Three

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

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

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

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

Report Date: 23-Nov-2007 10:33

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/23Nov2007.b/t112304.d
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Inj Date : 23-NOV-2007 10:12
 Operator : lmr Inst ID: msdt.i
 Smp Info : 50mL #1576-108
 Misc Info : 200ppbv -> 50ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 23-Nov-2007 09:58 lrandolp Quant Type: ISTD
 Cal Date : 21-NOV-2007 19:02 Cal File: t112108.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
		ON-COL		FINAL		TARGET RANGE		RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE (PPBV)	(PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====
* 81 Bromochloromethane CAS #: 74-97-5								
13.886	13.886 (1.000)	130	345602	25.0000		80.00- 120.00		100.00
13.886	13.886 (1.000)	128	267261			28.46- 128.46		77.33
13.858	13.886 (1.000)	49	527805			102.52- 202.52		152.72

* 97 1,4-Difluorobenzene CAS #: 540-36-3								
15.628	15.628 (1.000)	114	1616421	25.0000		80.00- 120.00		100.00
15.628	15.628 (1.000)	88	253705			0.00- 65.88		15.70

* 126 Chlorobenzene-d5 CAS #: 3114-55-4								
20.798	20.798 (1.000)	117	1161110	25.0000		80.00- 120.00		100.00
20.798	20.798 (1.000)	82	631332			5.79- 105.79		54.37

§ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
14.936	14.936 (1.076)	65	520016	23.3419	23.342	80.00- 120.00		100.00
14.936	14.936 (1.076)	67	309915			5.03- 105.03		59.60

§ 113 Toluene-d8 CAS #: 2037-26-5								
18.199	18.199 (1.165)	98	1383318	25.2812	25.281	80.00- 120.00		100.00
18.199	18.199 (1.165)	70	143669			0.00- 61.02		10.39

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== =====

\$ 113 Toluene-d8 (continued)

18.199 18.199 (1.165) 100 947577 19.45- 119.45 68.50

\$ 137 Bromofluorobenzene

CAS #: 460-00-4

22.789 22.789 (1.096) 174 727133 24.9300 24.930 80.00- 120.00 100.00

22.789 22.789 (1.096) 95 921888 76.90- 176.90 126.78

22.789 22.789 (1.096) 176 711661 47.13- 147.13 97.87

11 Propylene

CAS #: 115-07-1

5.840 5.840 (0.421) 41 441628 47.9584 47.958 80.00- 120.00 100.00

5.840 5.840 (0.421) 42 308557 17.24- 117.24 69.87

5.840 5.840 (0.421) 39 348929 27.83- 127.83 79.01

12 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

5.950 5.950 (0.429) 85 2546833 50.1848 50.185 80.00- 120.00 100.00

5.950 5.950 (0.429) 87 817789 0.00- 82.07 32.11

16 Freon 114

CAS #: 76-14-2

6.337 6.337 (0.456) 135 1699441 51.6374 51.637 80.00- 120.00 100.00

6.337 6.337 (0.456) 137 540263 0.00- 81.55 31.79

18 Chloromethane

CAS #: 74-87-3

6.559 6.559 (0.472) 50 550071 46.9808 46.981 80.00- 120.00 100.00

6.559 6.559 (0.472) 52 184235 0.00- 84.03 33.49

20 Vinyl Chloride

CAS #: 75-01-4

6.918 6.918 (0.498) 62 846205 52.8373 52.837 80.00- 120.00 100.00

6.918 6.918 (0.498) 64 275651 0.00- 93.71 32.57

22 1,3-Butadiene

CAS #: 106-99-0

6.973 7.001 (0.502) 54 667534 51.1954 51.195 80.00- 120.00 100.00

6.973 7.001 (0.502) 39 579885 54.52- 154.52 86.87

25 Bromomethane

CAS #: 74-83-9

7.941 7.941 (0.572) 94 831993 57.3662 57.366 80.00- 120.00 100.00

7.941 7.941 (0.572) 96 771099 42.21- 142.21 92.68

27 Chloroethane

CAS #: 75-00-3

8.218 8.245 (0.592) 64 433284 55.1854 55.185 80.00- 120.00 100.00

8.218 8.245 (0.592) 49 103282 0.00- 74.88 23.84

8.218 8.245 (0.592) 66 146740 0.00- 80.84 33.87

31 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

8.771 8.798 (0.632) 101 3479448 52.8264 52.826 80.00- 120.00 100.00

8.771 8.798 (0.632) 103 2260146 14.84- 114.84 64.96

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Ethanol						CAS #: 64-17-5			
9.241	9.268	(0.665)	45	301748	40.1988	40.199	80.00- 120.00	100.00	
9.241	9.268	(0.665)	43	71898			0.00- 72.67	23.83	
9.241	9.268	(0.665)	46	110076			0.00- 86.29	36.48	

42 Freon 113						CAS #: 76-13-1			
9.959	9.959	(0.717)	151	2497929	62.9429	62.943	80.00- 120.00	100.00	
9.959	9.959	(0.717)	153	1592524			13.75- 113.75	63.75	
9.959	9.959	(0.717)	101	3151153			76.91- 176.91	126.15	

43 1,1-Dichloroethene						CAS #: 75-35-4			
10.042	10.042	(0.723)	61	1791719	59.6237	59.624	80.00- 120.00	100.00	
10.042	10.042	(0.723)	96	1232856			17.55- 117.55	68.81	
10.042	10.042	(0.723)	98	788754			0.00- 93.10	44.02	

45 Acetone						CAS #: 67-64-1			
10.208	10.208	(0.735)	58	549683	50.1346	50.134	80.00- 120.00	100.00	
10.208	10.208	(0.735)	43	1544480			259.05- 359.05	280.98	

46 2-Propanol						CAS #: 67-63-0			
10.374	10.402	(0.747)	45	1753750	31.8255	31.826	80.00- 120.00	100.00	
10.374	10.402	(0.747)	43	397471			0.00- 73.80	22.66	
10.374	10.402	(0.747)	59	79996			0.00- 54.08	4.56	

47 Carbon Disulfide						CAS #: 75-15-0			
10.540	10.568	(0.759)	76	2872861	55.8272	55.827	80.00- 120.00	100.00	

51 3-Chloropropene						CAS #: 107-05-1			
10.817	10.844	(0.779)	76	604360	56.6573	56.657	80.00- 120.00	100.00	
10.817	10.844	(0.779)	41	1196047			185.00- 285.00	197.90	

54 Methylene Chloride						CAS #: 75-09-2			
11.121	11.121	(0.801)	49	944253	52.2275	52.228	80.00- 120.00	100.00	
11.121	11.121	(0.801)	84	945467			48.72- 148.72	100.13	
11.121	11.121	(0.801)	51	287755			0.00- 81.08	30.47	

60 MTBE						CAS #: 1634-04-4			
11.453	11.480	(0.825)	73	1462094	51.6948	51.695	80.00- 120.00	100.00	
11.453	11.480	(0.825)	57	274181			0.00- 68.82	18.75	
11.453	11.480	(0.825)	41	249624			0.00- 69.31	17.07	

61 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.563	11.563	(0.833)	96	1401932	57.0515	57.051	80.00- 120.00	100.00	
11.563	11.563	(0.833)	61	1782798			77.06- 177.06	127.17	
11.563	11.563	(0.833)	98	898305			11.49- 111.49	64.08	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	ON-COL		FINAL	TARGET RANGE	RATIO	
				RESPONSE	(PPEV)	(PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
65 Hexane						CAS #: 110-54-3			
11.895	11.895	(0.857)	57	2205711	54.7248	54.725	80.00- 120.00	100.00	
11.895	11.895	(0.857)	43	1188234			6.67- 106.67	53.87	
11.895	11.895	(0.857)	86	421990			0.00- 66.53	19.13	

69 Vinyl Acetate						CAS #: 108-05-4			
12.365	12.365	(0.890)	86	377512	57.2367	57.237	80.00- 120.00	100.00	
12.365	12.365	(0.890)	43	3030208			869.92- 969.92	802.68	

70 1,1-Dichloroethane						CAS #: 75-34-3			
12.393	12.393	(0.892)	63	2362793	56.5835	56.584	80.00- 120.00	100.00	
12.393	12.393	(0.892)	65	765127			0.00- 82.09	32.38	

75 2-Butanone						CAS #: 78-93-3			
13.388	13.388	(0.964)	72	698251	51.3489	51.349	80.00- 120.00	100.00	
13.388	13.388	(0.964)	43	2087453			322.34- 422.34	298.95	
13.388	13.388	(0.964)	57	195319			0.00- 79.31	27.97	

76 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.416	13.443	(0.966)	61	1555310	51.9638	51.964	80.00- 120.00	100.00	
13.416	13.443	(0.966)	96	1340281			32.62- 132.62	86.17	
13.416	13.443	(0.966)	98	868118			2.46- 102.46	55.82	

80 Tetrahydrofuran						CAS #: 109-99-9			
13.858	13.858	(0.998)	42	965405	42.8189	42.819	80.00- 120.00	100.00	
13.858	13.858	(0.998)	71	559013			6.07- 106.07	57.90	
13.858	13.858	(0.998)	72	604819			4.67- 104.67	62.65	

82 Chloroform						CAS #: 67-66-3			
13.941	13.941	(1.004)	83	2771731	59.5332	59.533	80.00- 120.00	100.00	
13.941	13.941	(1.004)	85	1792166			15.97- 115.97	64.66	

83 1,1,1-Trichloroethane						CAS #: 71-55-6			
14.300	14.300	(1.030)	97	2655666	53.8582	53.858	80.00- 120.00	100.00	
14.300	14.300	(1.030)	99	1725115			14.66- 114.66	64.96	

85 Cyclohexane						CAS #: 110-82-7			
14.300	14.300	(1.030)	84	1599416	57.8322	57.832	80.00- 120.00	100.00	
14.300	14.300	(1.030)	56	1476963			44.25- 144.25	92.34	
14.300	14.300	(1.030)	41	713830			0.00- 95.33	44.63	

87 Carbon Tetrachloride						CAS #: 56-23-5			
14.549	14.549	(1.048)	119	2464228	53.2457	53.246	80.00- 120.00	100.00	
14.549	14.549	(1.048)	117	2630843			55.80- 155.80	106.76	

89 2,2,4-Trimethylpentane						CAS #: 540-84-1			
14.881	14.881	(1.072)	57	5057034	51.4870	51.487	80.00- 120.00	100.00	

CONCENTRATIONS

RT	EXP RT (REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
89 2,2,4-Trimethylpentane (continued)							
14.881	14.881 (1.072)	56	1636562			0.00- 82.34	32.36
14.881	14.881 (1.072)	41	1178685			0.00- 76.30	23.31

91 Benzene CAS #: 71-43-2							
14.964	14.964 (0.958)	78	3845240	55.7590	55.759	80.00- 120.00	100.00
14.964	14.964 (0.958)	77	867043			0.00- 72.49	22.55

93 1,2-Dichloroethane CAS #: 107-06-2							
15.075	15.075 (0.965)	62	1685050	51.9716	51.972	80.00- 120.00	100.00
15.075	15.075 (0.965)	64	550676			0.00- 84.21	32.68

94 Heptane CAS #: 142-82-5							
15.185	15.185 (0.972)	71	1419982	57.0677	57.068	80.00- 120.00	100.00
15.185	15.185 (0.972)	43	1758564			86.68- 186.68	123.84
15.185	15.185 (0.972)	57	1110922			32.20- 132.20	78.23

101 Trichloroethene CAS #: 79-01-6							
16.098	16.098 (1.030)	95	1736961	55.1719	55.172	80.00- 120.00	100.00
16.098	16.098 (1.030)	130	1629796			44.61- 144.61	93.83
16.098	16.098 (1.030)	97	1112123			13.47- 113.47	64.03

104 1,2-Dichloropropane CAS #: 78-87-5							
16.568	16.568 (1.060)	63	1239973	52.5851	52.585	80.00- 120.00	100.00
16.568	16.568 (1.060)	62	883668			20.86- 120.86	71.27
16.568	16.568 (1.060)	41	585062			0.00- 97.96	47.18

106 1,4-Dioxane CAS #: 123-91-1							
16.706	16.706 (1.069)	88	892397	43.6329	43.633	80.00- 120.00	100.00
16.706	16.706 (1.069)	58	485579			4.14- 104.14	54.41
16.706	16.706 (1.069)	57	161744			0.00- 69.74	18.12

107 Bromodichloromethane CAS #: 75-27-4							
17.010	17.010 (1.088)	83	2828699	55.0671	55.067	80.00- 120.00	100.00
17.010	17.010 (1.088)	85	1829439			14.51- 114.51	64.67

110 cis-1,3-Dichloropropene CAS #: 10061-01-5							
17.784	17.784 (1.138)	75	2143985	57.0711	57.071	80.00- 120.00	100.00
17.784	17.784 (1.138)	77	685583			0.00- 81.98	31.98
17.784	17.784 (1.138)	39	818285			0.00- 88.23	38.17

111 4-Methyl-2-pentanone CAS #: 108-10-1							
17.978	17.978 (1.150)	58	983446	41.8370	41.837	80.00- 120.00	100.00
17.978	17.978 (1.150)	43	2083482			169.12- 269.12	211.86
17.978	17.978 (1.150)	85	523255			0.58- 100.58	53.21

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

114 Toluene						CAS #: 108-88-3			
18.337	18.337	(1.173)	91	4533918	59.2554	59.255	80.00- 120.00	100.00	
18.337	18.337	(1.173)	92	2772849			11.75- 111.75	61.16	

116 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
18.780	18.780	(0.903)	75	2255005	57.6099	57.610	80.00- 120.00	100.00	
18.780	18.780	(0.903)	77	721978			0.00- 82.00	32.02	
18.752	18.780	(0.902)	39	798118			0.00- 86.11	35.39	

117 1,1,2-Trichloroethane						CAS #: 79-00-5			
19.111	19.111	(0.919)	97	1564732	57.0700	57.070	80.00- 120.00	100.00	
19.111	19.111	(0.919)	99	988995			13.51- 113.51	63.21	
19.111	19.111	(0.919)	83	1311677			34.03- 134.03	83.83	

120 Tetrachloroethene						CAS #: 127-18-4			
19.277	19.277	(0.927)	166	2089727	56.9979	56.998	80.00- 120.00	100.00	
19.277	19.277	(0.927)	129	1451434			19.14- 119.14	69.46	
19.277	19.277	(0.927)	131	1392509			15.56- 115.56	66.64	

121 2-Hexanone						CAS #: 591-78-6			
19.416	19.416	(0.934)	58	1268673	35.6820	35.682	80.00- 120.00	100.00	
19.416	19.416	(0.934)	43	1963258			107.04- 207.04	154.75	
19.416	19.416	(0.934)	100	290751			0.00- 71.95	22.92	

122 Dibromochloromethane						CAS #: 124-48-1			
19.803	19.803	(0.952)	129	2549202	55.8738	55.874	80.00- 120.00	100.00	
19.803	19.803	(0.952)	127	1958255			26.41- 126.41	76.82	

123 1,2-Dibromoethane						CAS #: 106-93-4			
20.079	20.079	(0.965)	107	2381551	54.0301	54.030	80.00- 120.00	100.00	
20.079	20.079	(0.965)	109	2244720			42.79- 142.79	94.25	

127 Chlorobenzene						CAS #: 108-90-7			
20.853	20.853	(1.003)	112	3378462	54.9670	54.967	80.00- 120.00	100.00	
20.853	20.853	(1.003)	114	1063952			0.00- 81.38	31.49	
20.853	20.853	(1.003)	77	1974920			7.76- 107.76	58.46	

128 Ethyl Benzene						CAS #: 100-41-4			
20.936	20.936	(1.007)	106	1760889	55.3828	55.383	80.00- 120.00	100.00	
20.936	20.936	(1.007)	91	5478340			265.06- 365.06	311.11	

129 m,p-Xylene						CAS #: 108-38-3			
21.130	21.130	(1.016)	106	2203949	55.7905	55.790	80.00- 120.00	100.00	
21.130	21.130	(1.016)	91	4325255			147.41- 247.41	196.25	

130 o-Xylene						CAS #: 95-47-6			
21.849	21.849	(1.051)	106	2057004	56.5107	56.511	80.00- 120.00	100.00	

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
130 o-Xylene (continued)								
21.849	21.849	(1.051)	91	4220982			154.00- 254.00	205.20

131 Styrene CAS #: 100-42-5								
21.876	21.876	(1.052)	104	3252711	56.5339	56.534	80.00- 120.00	100.00
21.876	21.876	(1.052)	78	1595513			0.00- 97.90	49.05

133 Bromoform CAS #: 75-25-2								
22.291	22.291	(1.072)	173	2370180	54.8955	54.895	80.00- 120.00	100.00
22.291	22.291	(1.072)	171	1222351			1.18- 101.18	51.57

134 Cumene CAS #: 98-82-8								
22.429	22.429	(1.078)	105	5779932	60.4666	60.467	80.00- 120.00	100.00
22.429	22.429	(1.078)	120	1525287			0.00- 75.99	26.39
22.429	22.429	(1.078)	51	425933			9.74- 109.74	7.37

140 1,1,2,2-Tetrachloroethane CAS #: 79-34-5								
23.010	23.010	(1.106)	83	2924488	50.4876	50.488	80.00- 120.00	100.00
23.010	23.010	(1.106)	85	1919687			14.69- 114.69	65.64

142 Propylbenzene CAS #: 103-65-1								
23.121	23.121	(1.112)	91	6968077	55.3133	55.313	80.00- 120.00	100.00
23.121	23.121	(1.112)	120	1560379			0.00- 72.67	22.39
23.121	23.121	(1.112)	105	256403			0.00- 53.69	3.68

145 4-Ethyltoluene CAS #: 622-96-8								
23.287	23.286	(1.120)	105	5826772	54.3847	54.385	80.00- 120.00	100.00
23.287	23.286	(1.120)	120	1766633			0.00- 80.23	30.32

147 1,3,5-Trimethylbenzene CAS #: 108-67-8								
23.397	23.397	(1.125)	105	4726738	53.2831	53.283	80.00- 120.00	100.00
23.397	23.397	(1.125)	120	2374015			1.60- 101.60	50.23

150 1,2,4-Trimethylbenzene CAS #: 95-63-6								
24.033	24.033	(1.156)	105	4511582	53.3208	53.321	80.00- 120.00	100.00
24.033	24.033	(1.156)	120	2112554			0.00- 96.88	46.83

155 1,3-Dichlorobenzene CAS #: 541-73-1								
24.586	24.586	(1.182)	146	3081146	51.8220	51.822	80.00- 120.00	100.00
24.586	24.586	(1.182)	148	1958779			14.03- 114.03	63.57
24.586	24.586	(1.182)	111	1260891			0.00- 91.33	40.92

156 1,4-Dichlorobenzene CAS #: 106-46-7								
24.724	24.724	(1.189)	146	3142006	51.3222	51.322	80.00- 120.00	100.00
24.724	24.724	(1.189)	148	2017964			15.04- 115.04	64.23
24.724	24.724	(1.189)	111	1240729			0.00- 89.92	39.49

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

159	alpha-Chlorotoluene					CAS #: 100-44-7			
24.945	24.945	(1.199)	91	4914198	56.7671	56.767	80.00-	120.00	100.00
24.945	24.945	(1.199)	126	954106			0.00-	70.12	19.42

161	1,2-Dichlorobenzene					CAS #: 95-50-1			
25.360	25.360	(1.219)	146	2991993	50.7935	50.794	80.00-	120.00	100.00
25.360	25.360	(1.219)	148	1911494			14.74-	114.74	63.89
25.360	25.360	(1.219)	111	1281862			0.00-	92.92	42.84

165	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
28.153	28.153	(1.354)	180	2583898	45.8626	45.863	80.00-	120.00	100.00
28.153	28.153	(1.354)	182	2439198			46.14-	146.14	94.40

166	Hexachlorobutadiene					CAS #: 87-68-3			
28.319	28.319	(1.362)	225	1876496	45.5561	45.556	80.00-	120.00	100.00
28.319	28.319	(1.362)	223	1159566			14.10-	114.10	61.79

29	Isopentane					CAS #: 78-78-4			
8.273	8.273	(0.596)	43	1224639	48.3524	48.352	80.00-	120.00	100.00
8.273	8.273	(0.596)	57	976699			26.21-	126.21	79.75

19	Butane					CAS #: 106-97-8			
6.807	6.835	(0.490)	58	155438	49.5857	49.586	80.00-	120.00	100.00
6.807	6.835	(0.490)	43	1049185			668.04-	768.04	674.99

102	Methyl Cyclohexane					CAS #: 108-87-2			
16.346	16.346	(1.177)	83	2031971	56.7469	56.747	80.00-	120.00	100.00
16.346	16.346	(1.177)	98	937052			0.00-	92.45	46.12
16.346	16.346	(1.177)	55	1315575			18.10-	118.10	64.74

167	Naphthalene					CAS #: 91-20-3			
28.678	28.678	(1.379)	128	4290476	52.9405	52.940	80.00-	120.00	100.00
28.678	28.678	(1.379)	127	521052			0.00-	62.43	12.14

Report Date: 23-Nov-2007 10:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 23-NOV-2007

Lab File ID: t112304.d

Calibration Time: 09:32

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: lmr

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv -> 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	364898	218939	510857	345602	-5.29
97 1,4-Difluorobenze	1716816	1030090	2403542	1616421	-5.85
126 Chlorobenzene-d5	1199182	719509	1678855	1161110	-3.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2007
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Level: LOW Operator: lmr
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 2926Spectra.spk Quant Type: ISTD
 Sublist File: AT04ENSR.sub
 Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	50.185	100.37	70-130
16 Freon 114	50.000	51.637	103.27	70-130
18 Chloromethane	50.000	46.981	93.96	70-130
20 Vinyl Chloride	50.000	52.837	105.67	70-130
22 1,3-Butadiene	50.000	51.195	102.39	60-140
25 Bromomethane	50.000	57.366	114.73	70-130
27 Chloroethane	50.000	55.185	110.37	70-130
31 Trichlorofluoromet	50.000	52.826	105.65	70-130
38 Ethanol	50.000	40.199	80.40	60-140
42 Freon 113	50.000	62.943	125.89	70-130
43 1,1-Dichloroethene	50.000	59.624	119.25	70-130
45 Acetone	50.000	50.134	100.27	60-140
47 Carbon Disulfide	50.000	55.827	111.65	60-140
46 2-Propanol	50.000	31.826	63.65	60-140
54 Methylene Chloride	50.000	52.228	104.46	70-130
60 MTBE	50.000	51.695	103.39	60-140
61 trans-1,2-Dichloro	50.000	57.051	114.10	60-140
65 Hexane	50.000	54.725	109.45	60-140
70 1,1-Dichloroethane	50.000	56.584	113.17	70-130
76 cis-1,2-Dichloroet	50.000	51.964	103.93	70-130
75 2-Butanone	50.000	51.349	102.70	60-140
80 Tetrahydrofuran	50.000	42.819	85.64	60-140
82 Chloroform	50.000	59.533	119.07	70-130
85 Cyclohexane	50.000	57.832	115.66	60-140
83 1,1,1-Trichloroeth	50.000	53.858	107.72	70-130
87 Carbon Tetrachlori	50.000	53.246	106.49	70-130
91 Benzene	50.000	55.759	111.52	70-130
93 1,2-Dichloroethane	50.000	51.972	103.94	70-130
94 Heptane	50.000	57.068	114.14	60-140
101 Trichloroethene	50.000	55.172	110.34	70-130
104 1,2-Dichloropropan	50.000	52.585	105.17	70-130
106 1,4-Dioxane	50.000	43.633	87.27	60-140
107 Bromodichlorometha	50.000	55.067	110.13	60-140

Report Date: 23-Nov-2007 10:33

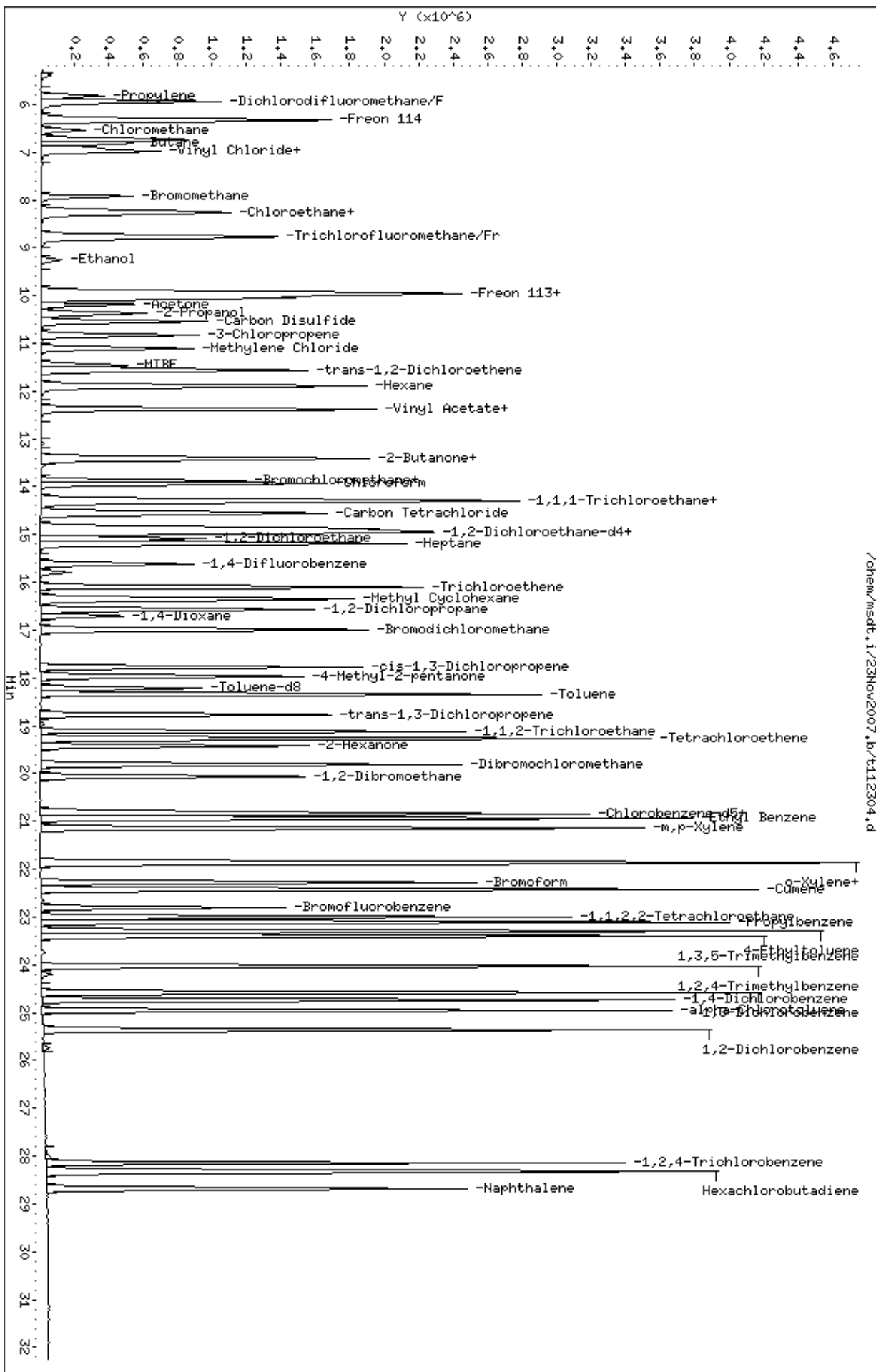
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
110 cis-1,3-Dichloropr	50.000	57.071	114.14	70-130
111 4-Methyl-2-pentano	50.000	41.837	83.67	60-140
114 Toluene	50.000	59.255	118.51	70-130
116 trans-1,3-Dichloro	50.000	57.610	115.22	70-130
117 1,1,2-Trichloroeth	50.000	57.070	114.14	70-130
120 Tetrachloroethene	50.000	56.998	114.00	70-130
121 2-Hexanone	50.000	35.682	71.36	60-140
122 Dibromochlorometha	50.000	55.874	111.75	60-140
123 1,2-Dibromoethane	50.000	54.030	108.06	70-130
127 Chlorobenzene	50.000	54.967	109.93	70-130
128 Ethyl Benzene	50.000	55.383	110.77	70-130
129 m,p-Xylene	50.000	55.790	111.58	70-130
130 o-Xylene	50.000	56.511	113.02	70-130
131 Styrene	50.000	56.534	113.07	70-130
133 Bromoform	50.000	54.895	109.79	60-140
140 1,1,2,2-Tetrachlor	50.000	50.488	100.98	70-130
145 4-Ethyltoluene	50.000	54.385	108.77	60-140
147 1,3,5-Trimethylben	50.000	53.283	106.57	70-130
150 1,2,4-Trimethylben	50.000	53.321	106.64	70-130
155 1,3-Dichlorobenzen	50.000	51.822	103.64	70-130
156 1,4-Dichlorobenzen	50.000	51.322	102.64	70-130
159 alpha-Chlorotoluen	50.000	56.767	113.53	70-130
161 1,2-Dichlorobenzen	50.000	50.794	101.59	70-130
165 1,2,4-Trichloroben	50.000	45.863	91.73	70-130
166 Hexachlorobutadien	50.000	45.556	91.11	70-130
142 Propylbenzene	50.000	55.313	110.63	60-140
134 Cumene	50.000	60.467	120.93	60-140
51 3-Chloropropene	50.000	56.657	113.31	60-140
89 2,2,4-Trimethylpen	50.000	51.487	102.97	60-140
19 Butane	50.000	49.586	99.17	70-130
29 Isopentane	50.000	48.352	96.70	70-130
102 Methyl Cyclohexane	50.000	56.747	113.49	70-130
11 Propylene	50.000	47.958	95.92	60-140
167 Naphthalene	50.000	52.940	105.88	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 90 1,2-Dichloroethane	25.000	23.342	93.37	70-130
\$ 113 Toluene-d8	25.000	25.281	101.12	70-130
\$ 137 Bromofluorobenzene	25.000	24.930	99.72	70-130

Data File: /chem/msdt,i/23Nov2007,b/t112304.d
Date: 23-NOV-2007 10:12
Client ID: LCS-1
Sample Info: 50mL #1576-108

Column phase: RTX-624

Instrument: msdt,i
Operator: lmr
Column diameter: 0.53



Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/23Nov2007.b/t112302.d
 Lab Smp Id: ICAL Client Smp ID: Level 1
 Inj Date : 23-NOV-2007 08:54
 Operator : lmr Inst ID: msdt.i
 Smp Info : 0.2ml #1576-92
 Misc Info : 200ppbv-0.2ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
 Cal Date : 23-NOV-2007 08:54 Cal File: t112302.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 81 Bromochloromethane CAS #: 74-97-5									
13.858	13.858	(1.000)	130	321558	25.0000			50.00- 150.00	100.00
13.858	13.858	(1.000)	128	249117				26.38- 126.38	77.47
13.858	13.858	(1.000)	49	321177				91.95- 191.95	99.88

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.628	(1.000)	114	1636328	25.0000			50.00- 150.00	100.00
15.600	15.600	(1.000)	88	257171				0.00- 65.95	15.72

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	1105079	25.0000			50.00- 150.00	100.00
20.798	20.798	(1.000)	82	600415				5.79- 105.79	54.33

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.936	(1.078)	65	499168	25.0000	24.081		50.00- 150.00	100.00
14.936	14.936	(1.078)	67	258807				5.03- 105.03	51.85

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199	(1.165)	98	1345784	25.0000	24.296		50.00- 150.00	100.00
18.199	18.199	(1.165)	70	143075				0.00- 61.02	10.63

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

\$ 113 Toluene-d8 (continued)									
18.199	18.199	(1.165)	100	926659			19.45- 119.45	68.86	

\$ 137 Bromofluorobenzene									
						CAS #: 460-00-4			
22.789	22.789	(1.096)	174	640413	25.0000	23.070	50.00- 150.00	100.00	
22.789	22.789	(1.096)	95	809759			77.33- 177.33	126.44	
22.789	22.789	(1.096)	176	619711			46.56- 146.56	96.77	

82 Chloroform									
						CAS #: 67-66-3			
13.941	13.941	(1.006)	83	5901	0.20000	0.1362	50.00- 150.00	100.00(a)	
13.941	13.941	(1.006)	85	4052			16.84- 116.84	68.67	

91 Benzene									
						CAS #: 71-43-2			
14.964	14.964	(0.958)	78	12517	0.20000	0.1793	50.00- 150.00	100.00(a)	
14.964	14.964	(0.958)	77	2589			0.00- 72.49	20.68	

131 Styrene									
						CAS #: 100-42-5			
21.876	21.876	(1.052)	104	5443	0.20000	0.09940	50.00- 150.00	100.00(a)	
21.876	21.876	(1.052)	78	5509			9.19- 109.19	101.21	

134 Cumene									
						CAS #: 98-82-8			
22.429	22.429	(1.078)	105	11699	0.20000	0.1286	50.00- 150.00	100.00(a)	
22.429	22.429	(1.078)	120	2855			0.00- 75.99	24.40	
22.789	22.789	(1.096)	51	37259			9.74- 109.74	318.48	

QC Flag Legend

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

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 21-NOV-2007

Lab File ID: t112302.d

Calibration Time: 17:45

Lab Smp Id: ICAL

Client Smp ID: Level 1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: lmr

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv-0.2ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	306974	184184	429764	321558	4.75
97 1,4-Difluorobenze	1370844	822506	1919182	1636328	19.37
126 Chlorobenzene-d5	968009	580805	1355213	1105079	14.16

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.86	-0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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/msdt,i/23Nov2007,b/t112302.d

Date : 23-NOV-2007 08:54

Client ID: Level 1

Sample Info: 0.2ml #1576-92

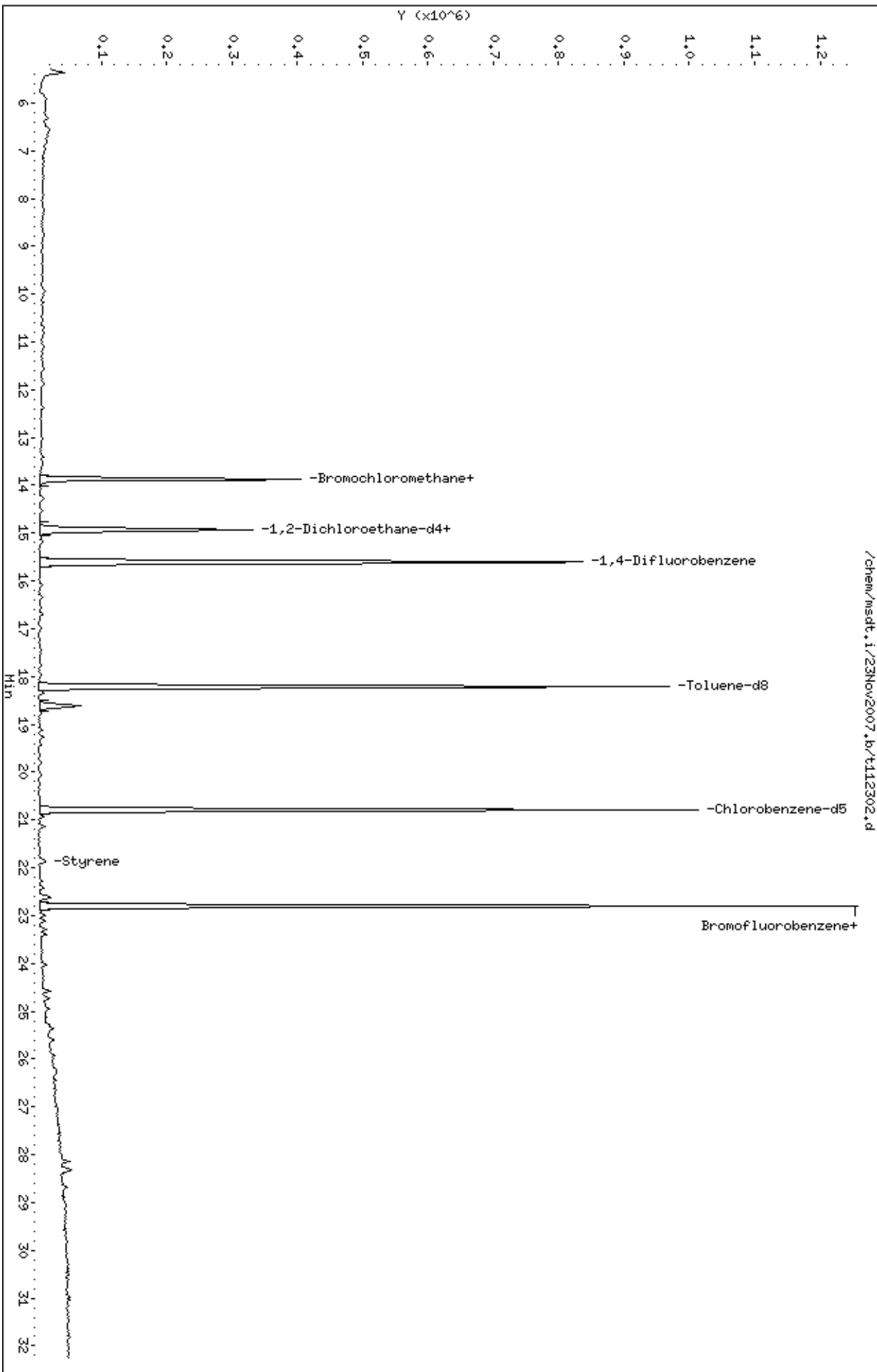
Column phase: RTX-624

Instrument: msdt,i

Operator: lmr

Column diameter: 0.53

/chem/msdt,i/23Nov2007,b/t112302.d



Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112103.d
 Lab Smp Id: ical Client Smp ID: Level 2
 Inj Date : 21-NOV-2007 14:44
 Operator : ea Inst ID: msdt.i
 Smp Info : 0.5ml #1576-92
 Misc Info : 200ppbv-0.5ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
 Cal Date : 21-NOV-2007 14:44 Cal File: t112103.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04low+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 81 Bromochloromethane CAS #: 74-97-5									
13.886	13.886	(1.000)	130	255109	25.0000			50.00- 150.00	100.00
13.886	13.886	(1.000)	128	195113				26.38- 126.38	76.48
13.886	13.886	(1.000)	49	293855				91.95- 191.95	115.19

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.628	(1.000)	114	1179442	25.0000			50.00- 150.00	100.00
15.628	15.628	(1.000)	88	188742				0.00- 65.95	16.00

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	864128	25.0000			50.00- 150.00	100.00
20.798	20.798	(1.000)	82	482719				5.79- 105.79	55.86

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.936	(1.076)	65	408860	25.0000	24.862		50.00- 150.00	100.00
14.936	14.936	(1.076)	67	203960				5.03- 105.03	49.89

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.227	18.227	(1.166)	98	1003184	25.0000	25.127		50.00- 150.00	100.00
18.199	18.199	(1.165)	70	110544				0.00- 61.02	11.02

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

\$ 113 Toluene-d8 (continued)										
18.227	18.227	(1.166)	100	696584			19.45- 119.45	69.44		

\$ 137 Bromofluorobenzene										
						CAS #:	460-00-4			
22.789	22.789	(1.096)	174	547492	25.0000	25.222	50.00- 150.00	100.00		
22.789	22.789	(1.096)	95	696572			77.33- 177.33	127.23		
22.789	22.789	(1.096)	176	524599			46.56- 146.56	95.82		

12 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8			
5.950	5.950	(0.429)	85	17870	0.50000	0.4770	50.00- 150.00	100.00(a)		
5.950	5.950	(0.429)	87	5516			0.00- 82.07	30.87		

16 Freon 114						CAS #:	76-14-2			
6.310	6.310	(0.454)	135	11903	0.50000	0.4900	50.00- 150.00	100.00(a)		
6.337	6.337	(0.456)	137	3146			0.00- 81.55	26.43		

20 Vinyl Chloride						CAS #:	75-01-4			
6.918	6.918	(0.498)	62	4804	0.50000	0.4064	50.00- 150.00	100.00(a)		
6.918	6.918	(0.498)	64	3679			0.00- 93.71	76.58		

22 1,3-Butadiene						CAS #:	106-99-0			
6.973	6.973	(0.502)	54	4155	0.50000	0.4317	50.00- 150.00	100.00(a)		
6.973	6.973	(0.502)	39	5909			54.52- 154.52	142.21		

25 Bromomethane						CAS #:	74-83-9			
7.913	7.913	(0.570)	94	4062	0.50000	0.3794	50.00- 150.00	100.00(a)		
7.941	7.941	(0.572)	96	4986			50.48- 150.48	122.75		

27 Chloroethane						CAS #:	75-00-3			
8.218	8.218	(0.592)	64	1954	0.50000	0.3372	50.00- 150.00	100.00(a)		
0.000	1.000	(0.000)	49	0			0.00- 74.88	0.00		
0.000	1.000	(0.000)	66	0			0.00- 80.84	0.00		

31 Trichlorofluoromethane/Fr11						CAS #:	75-69-4			
8.771	8.771	(0.632)	101	20969	0.50000	0.4313	50.00- 150.00	100.00(a)		
8.798	8.798	(0.634)	103	14795			16.26- 116.26	70.56		

42 Freon 113						CAS #:	76-13-1			
9.959	9.959	(0.717)	151	11790	0.50000	0.4025	50.00- 150.00	100.00(a)		
9.959	9.959	(0.717)	153	8372			15.23- 115.23	71.01		
9.932	9.932	(0.715)	101	17052			83.14- 183.14	144.63		

43 1,1-Dichloroethene						CAS #:	75-35-4			
10.042	10.042	(0.723)	61	8381	0.50000	0.3778	50.00- 150.00	100.00(a)		
10.042	10.042	(0.723)	96	6976			16.79- 116.79	83.24		
10.042	10.042	(0.723)	98	3490			0.00- 90.88	41.64		

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

47	Carbon Disulfide					CAS #: 75-15-0			
10.540	10.540	(0.759)	76	14617	0.50000	0.3848	50.00- 150.00	100.00(a)	

54	Methylene Chloride					CAS #: 75-09-2			
11.121	11.121	(0.801)	49	6758	0.50000	0.5064	50.00- 150.00	100.00	
11.121	11.121	(0.801)	84	6176			40.01- 140.01	91.39	
11.121	11.121	(0.801)	51	2199			0.00- 81.08	32.54	

60	MTBE					CAS #: 1634-04-4			
11.453	11.453	(0.825)	73	9097	0.50000	0.4357	50.00- 150.00	100.00(a)	
11.453	11.453	(0.825)	57	1688			0.00- 69.28	18.56	
11.425	11.425	(0.823)	41	1640			0.00- 69.31	18.03	

61	trans-1,2-Dichloroethene					CAS #: 156-60-5			
11.563	11.563	(0.833)	96	7370	0.50000	0.4063	50.00- 150.00	100.00(a)	
11.563	11.563	(0.833)	61	9179			83.34- 183.34	124.55	
11.563	11.563	(0.833)	98	3805			11.49- 111.49	51.63	

65	Hexane					CAS #: 110-54-3			
11.895	11.895	(0.857)	57	11611	0.50000	0.3903	50.00- 150.00	100.00(a)	
11.923	11.923	(0.859)	43	6045			6.67- 106.67	52.06	
11.895	11.895	(0.857)	86	1416			0.00- 66.53	12.20	

70	1,1-Dichloroethane					CAS #: 75-34-3			
12.393	12.393	(0.892)	63	11757	0.50000	0.3814	50.00- 150.00	100.00(a)	
12.393	12.393	(0.892)	65	3648			0.00- 81.73	31.03	

75	2-Butanone					CAS #: 78-93-3			
13.416	13.416	(0.966)	72	3480	0.50000	0.3467	50.00- 150.00	100.00(a)	
13.416	13.416	(0.966)	43	15183			362.73- 462.73	436.29	
13.388	13.388	(0.964)	57	1068			0.00- 79.31	30.69	

76	cis-1,2-Dichloroethene					CAS #: 156-59-2			
13.416	13.416	(0.966)	61	8180	0.50000	0.3702	50.00- 150.00	100.00(a)	
13.443	13.443	(0.968)	96	7497			30.20- 130.20	91.65	
13.443	13.443	(0.968)	98	4213			0.03- 100.03	51.50	

80	Tetrahydrofuran					CAS #: 109-99-9			
13.858	13.858	(0.998)	42	6869	0.50000	0.4127	50.00- 150.00	100.00(a)	
13.858	13.858	(0.998)	71	2948			0.15- 100.15	42.92	
13.886	13.886	(1.000)	72	3389			4.67- 104.67	49.34	

82	Chloroform					CAS #: 67-66-3			
13.941	13.941	(1.004)	83	13232	0.50000	0.3850	50.00- 150.00	100.00(a)	
13.941	13.941	(1.004)	85	9736			16.84- 116.84	73.58	

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

83	1,1,1-Trichloroethane					CAS #:	71-55-6			
14.300	14.300	(1.030)	97	14292	0.50000	0.3927	50.00- 150.00	100.00(a)		
14.300	14.300	(1.030)	99	8590			13.29- 113.29	60.10		

85	Cyclohexane					CAS #:	110-82-7			
14.300	14.300	(1.030)	84	7624	0.50000	0.3734	50.00- 150.00	100.00(a)		
14.300	14.300	(1.030)	56	7649			49.76- 149.76	100.33		
14.328	14.328	(1.032)	41	4605			3.69- 103.69	60.40		

87	Carbon Tetrachloride					CAS #:	56-23-5			
14.549	14.549	(1.048)	119	12761	0.50000	0.3735	50.00- 150.00	100.00(a)		
14.549	14.549	(1.048)	117	13106			54.35- 154.35	102.70		

91	Benzene					CAS #:	71-43-2			
14.964	14.964	(0.958)	78	20974	0.50000	0.4168	50.00- 150.00	100.00(a)		
14.964	14.964	(0.958)	77	4797			0.00- 72.49	22.87		

89	2,2,4-Trimethylpentane					CAS #:	540-84-1			
14.881	14.881	(1.072)	57	30696	0.50000	0.4234	50.00- 150.00	100.00(a)		
14.881	14.881	(1.072)	56	9763			0.00- 82.34	31.81		
14.881	14.881	(1.072)	41	9210			0.00- 76.30	30.00		

93	1,2-Dichloroethane					CAS #:	107-06-2			
15.102	15.102	(0.966)	62	9676	0.50000	0.4090	50.00- 150.00	100.00(a)		
15.102	15.102	(0.966)	64	3507			0.00- 84.21	36.24		

94	Heptane					CAS #:	142-82-5			
15.185	15.185	(0.972)	71	6740	0.50000	0.3712	50.00- 150.00	100.00(a)		
15.185	15.185	(0.972)	43	9197			86.68- 186.68	136.45		
15.185	15.185	(0.972)	57	5330			32.20- 132.20	79.08		

101	Trichloroethene					CAS #:	79-01-6			
16.098	16.098	(1.030)	95	8404	0.50000	0.3658	50.00- 150.00	100.00(a)		
16.098	16.098	(1.030)	130	8844			47.47- 147.47	105.24		
16.098	16.098	(1.030)	97	5852			14.52- 114.52	69.63		

104	1,2-Dichloropropane					CAS #:	78-87-5			
16.568	16.568	(1.060)	63	7437	0.50000	0.4322	50.00- 150.00	100.00(a)		
16.568	16.568	(1.060)	62	4207			17.52- 117.52	56.57		
16.568	16.568	(1.060)	41	3749			0.97- 100.97	50.41		

107	Bromodichloromethane					CAS #:	75-27-4			
17.010	17.010	(1.088)	83	13896	0.50000	0.3707	50.00- 150.00	100.00(a)		
17.010	17.010	(1.088)	85	9035			14.67- 114.67	65.02		

110	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
17.784	17.784	(1.138)	75	9302	0.50000	0.3394	50.00- 150.00	100.00(a)		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
110 cis-1,3-Dichloropropene (continued)									
17.784	17.784	(1.138)	77	3572			0.00- 83.04	38.40	
17.784	17.784	(1.138)	39	4830			0.00- 93.89	51.92	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.978	17.978	(1.150)	58	5590	0.50000	0.3259	50.00- 150.00	100.00(a)	
17.978	17.978	(1.150)	43	11462			169.12- 269.12	205.04	
17.978	17.978	(1.150)	85	2632			0.58- 100.58	47.08	

114 Toluene CAS #: 108-88-3									
18.337	18.337	(1.173)	91	21664	0.50000	0.3880	50.00- 150.00	100.00(a)	
18.337	18.337	(1.173)	92	12835			11.10- 111.10	59.25	

116 trans-1,3-Dichloropropene CAS #: 10061-02-6									
18.780	18.780	(0.903)	75	9303	0.50000	0.3194	50.00- 150.00	100.00(a)	
18.780	18.780	(0.903)	77	3603			0.00- 83.38	38.73	
18.752	18.752	(0.902)	39	5121			0.00- 92.03	55.05	

117 1,1,2-Trichloroethane CAS #: 79-00-5									
19.111	19.111	(0.919)	97	6931	0.50000	0.3397	50.00- 150.00	100.00(a)	
19.111	19.111	(0.919)	99	4696			14.64- 114.64	67.75	
19.111	19.111	(0.919)	83	6717			37.04- 137.04	96.91	

120 Tetrachloroethene CAS #: 127-18-4									
19.277	19.277	(0.927)	166	9647	0.50000	0.3536	50.00- 150.00	100.00(a)	
19.277	19.277	(0.927)	129	7518			21.89- 121.89	77.93	
19.277	19.277	(0.927)	131	7782			19.59- 119.59	80.67	

122 Dibromochloromethane CAS #: 124-48-1									
19.803	19.803	(0.952)	129	11457	0.50000	0.3374	50.00- 150.00	100.00(a)	
19.803	19.803	(0.952)	127	8666			26.41- 126.41	75.64	

123 1,2-Dibromoethane CAS #: 106-93-4									
20.079	20.079	(0.965)	107	11405	0.50000	0.3477	50.00- 150.00	100.00(a)	
20.079	20.079	(0.965)	109	10987			43.48- 143.48	96.33	

127 Chlorobenzene CAS #: 108-90-7									
20.853	20.853	(1.003)	112	18189	0.50000	0.3976	50.00- 150.00	100.00(a)	
20.853	20.853	(1.003)	114	6753			0.00- 83.18	37.13	
20.853	20.853	(1.003)	77	18955			20.20- 120.20	104.21	

128 Ethyl Benzene CAS #: 100-41-4									
20.936	20.936	(1.007)	106	7779	0.50000	0.3287	50.00- 150.00	100.00(a)	
20.936	20.936	(1.007)	91	26854			265.06- 365.06	345.21	

129 m,p-Xylene CAS #: 108-38-3									
21.130	21.130	(1.016)	106	9931	0.50000	0.3378	50.00- 150.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
129 m,p-Xylene (continued)									
21.130	21.130	(1.016)	91	19834			147.41- 247.41	199.72	

130 o-Xylene									
21.849	21.849	(1.051)	106	9378	0.50000	0.3462	50.00- 150.00	100.00(a)	
21.849	21.849	(1.051)	91	18907			155.82- 255.82	201.61	

131 Styrene									
21.876	21.876	(1.052)	104	14367	0.50000	0.3355	50.00- 150.00	100.00(a)	
21.876	21.876	(1.052)	78	7723			9.19- 109.19	53.76	

133 Bromoform									
22.291	22.291	(1.072)	173	11120	0.50000	0.3461	50.00- 150.00	100.00(a)	
22.291	22.291	(1.072)	171	5648			0.74- 100.74	50.79	

134 Cumene									
22.429	22.429	(1.078)	105	26326	0.50000	0.3701	50.00- 150.00	100.00(a)	
22.429	22.429	(1.078)	120	7002			0.00- 75.99	26.60	
22.429	22.429	(1.078)	51	2246			9.74- 109.74	8.53	

140 1,1,2,2-Tetrachloroethane									
23.010	23.010	(1.106)	83	15194	0.50000	0.3524	50.00- 150.00	100.00(a)	
23.010	23.010	(1.106)	85	10415			14.88- 114.88	68.55	

142 Propylbenzene									
23.121	23.121	(1.112)	91	32934	0.50000	0.3513	50.00- 150.00	100.00(a)	
23.121	23.121	(1.112)	120	7508			0.00- 72.67	22.80	
23.121	23.121	(1.112)	105	1269			0.00- 53.69	3.85	

145 4-Ethyltoluene									
23.287	23.287	(1.120)	105	27282	0.50000	0.3422	50.00- 150.00	100.00(a)	
23.287	23.287	(1.120)	120	8636			0.00- 80.49	31.65	

147 1,3,5-Trimethylbenzene									
23.397	23.397	(1.125)	105	21739	0.50000	0.3293	50.00- 150.00	100.00(a)	
23.397	23.397	(1.125)	120	13029			1.60- 101.60	59.93	

150 1,2,4-Trimethylbenzene									
24.033	24.033	(1.156)	105	20908	0.50000	0.3320	50.00- 150.00	100.00(a)	
24.033	24.033	(1.156)	120	9676			0.00- 96.88	46.28	

155 1,3-Dichlorobenzene									
24.586	24.586	(1.182)	146	17343	0.50000	0.3919	50.00- 150.00	100.00(a)	
24.586	24.586	(1.182)	148	11301			14.03- 114.03	65.16	
24.586	24.586	(1.182)	111	6914			0.00- 91.33	39.87	

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

156	1,4-Dichlorobenzene					CAS #: 106-46-7			
24.752	24.752	(1.190)	146	17145	0.50000	0.3763	50.00- 150.00	100.00(a)	
24.752	24.752	(1.190)	148	12180			15.04- 115.04	71.04	
24.724	24.724	(1.189)	111	7019			0.00- 89.92	40.94	

159	alpha-Chlorotoluene					CAS #: 100-44-7			
24.945	24.945	(1.199)	91	20855	0.50000	0.3237	50.00- 150.00	100.00(a)	
24.945	24.945	(1.199)	126	4631			0.00- 70.12	22.21	

161	1,2-Dichlorobenzene					CAS #: 95-50-1			
25.360	25.360	(1.219)	146	16404	0.50000	0.3742	50.00- 150.00	100.00(a)	
25.360	25.360	(1.219)	148	11223			14.55- 114.55	68.42	
25.360	25.360	(1.219)	111	7370			0.00- 93.18	44.93	

102	Methyl Cyclohexane					CAS #: 108-87-2			
16.346	16.346	(1.177)	83	10463	0.50000	0.3958	50.00- 150.00	100.00(a)	
16.374	16.374	(1.179)	98	3342			0.00- 92.45	31.94	
16.346	16.346	(1.177)	55	7060			18.10- 118.10	67.48	

QC Flag Legend

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

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 23-NOV-2007

Lab File ID: t112103.d

Calibration Time: 09:32

Lab Smp Id: ical

Client Smp ID: Level 2

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ea

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv-0.5ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	364898	218939	510857	255109	-30.09
97 1,4-Difluorobenze	1716816	1030090	2403542	1179442	-31.30
126 Chlorobenzene-d5	1199182	719509	1678855	864128	-27.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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/msdt,i/21Nov2007,b/t112103.d

Date: 21-Nov-2007 14:44

Client ID: Level 2

Sample Info: 0.5ml #1576-92

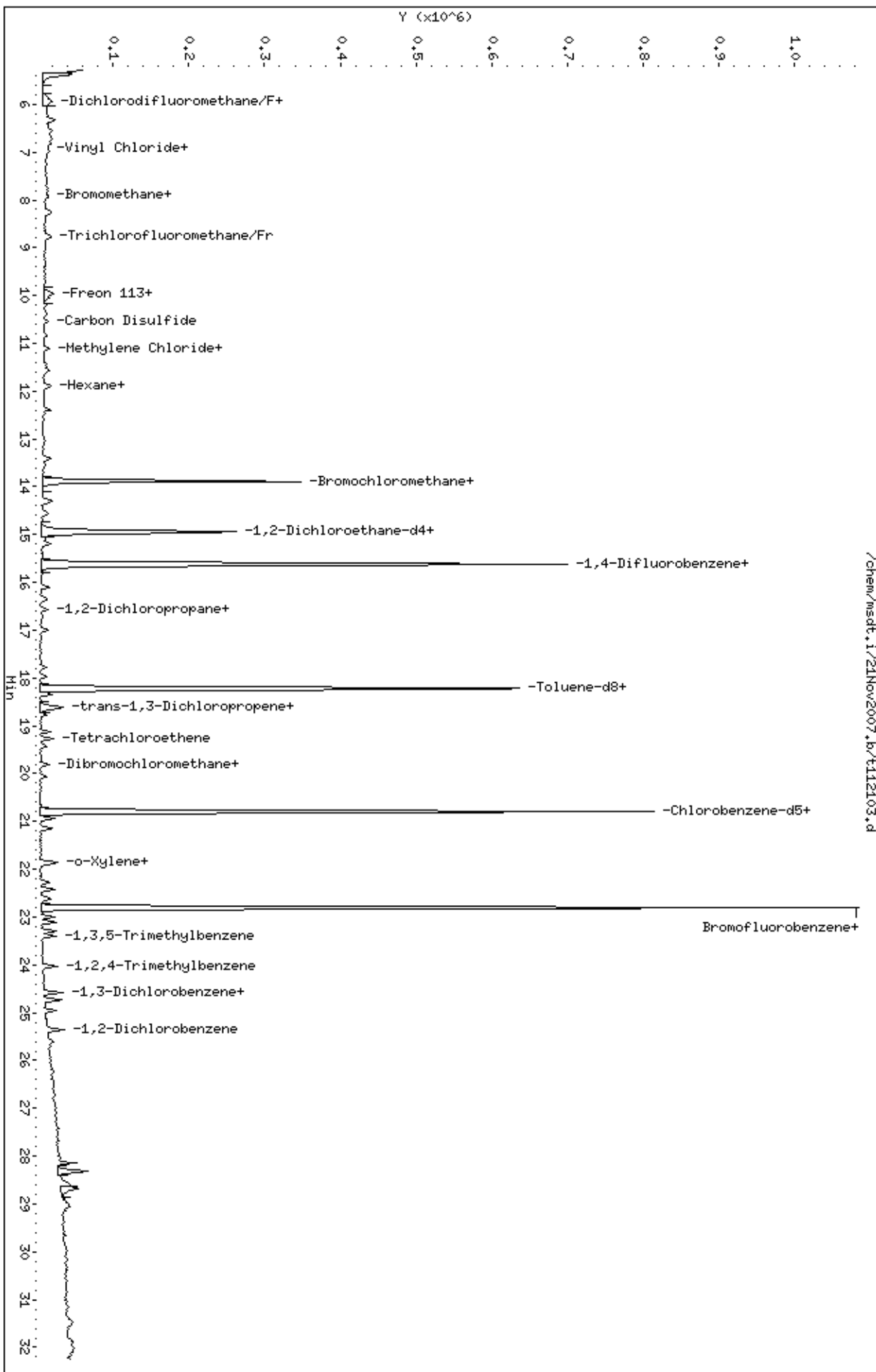
Column phase: RTX-624

Instrument: msdt,i

Operator: ea

Column diameter: 0.53

/chem/msdt,i/21Nov2007,b/t112103.d



Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112602.d
 Lab Smp Id: ical level 3
 Inj Date : 26-NOV-2007 09:59
 Operator : EA Inst ID: msdt.i
 Smp Info : 2.0ml #1487-402
 Misc Info : 200ppbv-2.0ppbv
 Comment :
 Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Meth Date : 27-Nov-2007 13:59 lover Quant Type: ISTD
 Cal Date : 26-NOV-2007 09:59 Cal File: t112602.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sp22b.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.865	13.865	(1.000)	130	307636	25.0000		50.00- 150.00	100.00	
13.865	13.865	(1.000)	128	239995			26.64- 126.64	78.01	
13.865	13.865	(1.000)	49	316968			73.62- 173.62	103.03	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.607	15.607	(1.000)	114	1418212	25.0000		50.00- 150.00	100.00	
15.607	15.607	(1.000)	88	226918			0.00- 65.84	16.00	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.805	20.805	(1.000)	117	1043769	25.0000		50.00- 150.00	100.00	
20.805	20.805	(1.000)	82	573029			4.93- 104.93	54.90	

5 Freon 143a CAS #: 420-46-2									
5.535	5.535	(0.399)	69	38062	2.00000	1.924	50.00- 150.00	100.00(a)	

6 Freon142b CAS #: 75-68-3									
6.436	6.436	(0.464)	65	54591	2.00000	1.857	50.00- 150.00	100.00(a)	
6.436	6.436	(0.464)	45	10818			0.00- 69.76	19.82	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
9 Freon 13						CAS #: 75-72-9			
5.394	5.394	(0.389)	69	56480	2.00000	2.105	50.00- 150.00	100.00	
5.394	5.394	(0.389)	85	18780			0.00- 82.40	33.25	
5.394	5.394	(0.389)	87	5959			0.00- 60.56	10.55	

13 Freon 134a						CAS #: 811-97-2			
5.675	5.675	(0.409)	83	26857	2.00000	1.929	50.00- 150.00	100.00(a)	
5.675	5.675	(0.409)	69	20838			31.14- 131.14	77.59	

15 Freon 152a						CAS #: 75-37-6			
5.844	5.844	(0.422)	65	13887	2.00000	1.927	50.00- 150.00	100.00(a)	
5.844	5.844	(0.422)	51	22834			117.84- 217.84	164.43	
5.844	5.844	(0.422)	47	4784			0.00- 88.39	34.45	

17 Freon 22						CAS #: 75-45-6			
6.013	6.013	(0.434)	67	7015	2.00000	1.907	50.00- 150.00	100.00(a)	
5.985	5.985	(0.432)	51	32761			439.12- 539.12	467.01	
6.436	6.436	(0.464)	85	6962			0.00- 91.16	99.24	

26 Methanol						CAS #: 67-56-1			
7.534	7.534	(0.543)	31	112331	12.0000	35.524	50.00- 150.00	100.00(a)	
7.562	7.562	(0.545)	32	146475			73.38- 173.38	130.40	

34 Dichlorofluoromethane/Fr21						CAS #: 75-43-4			
8.745	8.745	(0.631)	67	47605	2.00000	1.932	50.00- 150.00	100.00(a)	
8.745	8.745	(0.631)	69	14457			0.00- 82.06	30.37	
8.717	8.717	(0.629)	35	2340			0.00- 54.92	4.92	

40 Freon123a						CAS #: 354-23-4			
9.552	9.552	(0.689)	67	47809	2.00000	1.982	50.00- 150.00	100.00(a)	
9.552	9.552	(0.689)	117	39570			30.97- 130.97	82.77	

41 Freon123						CAS #: 306-83-2			
9.718	9.718	(0.701)	83	67791	2.00000	2.029	50.00- 150.00	100.00	
9.718	9.718	(0.701)	133	13633			0.00- 70.26	20.11	
9.718	9.718	(0.701)	85	46138			17.95- 117.95	68.06	

57 tert-Butyl-Alcohol						CAS #: 75-65-0			
11.156	11.156	(0.805)	59	46362	2.00000	2.845	50.00- 150.00	100.00	
11.156	11.156	(0.805)	41	13386			0.00- 78.87	28.87	
11.156	11.156	(0.805)	57	5264			0.00- 61.35	11.35	

68 Isopropyl ether						CAS #: 108-20-3			
12.262	12.262	(0.884)	45	94524	2.00000	1.871	50.00- 150.00	100.00(a)	
12.289	12.289	(0.886)	87	33151			0.00- 84.51	35.07	
12.289	12.289	(0.886)	59	12084			0.00- 62.64	12.78	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
71 1-Propanol						CAS #: 71-23-8			
12.400	12.400	(0.894)	42	5817	2.00000	2.188	50.00- 150.00	100.00(H)	
12.400	12.400	(0.894)	59	5701			75.45- 175.45	98.01	
12.400	12.400	(0.894)	41	4753			158.05- 258.05	81.71	

73 t-Butylethyl Ether						CAS #: 637-92-3			
12.925	12.925	(0.932)	59	51638	2.00000	2.103	50.00- 150.00	100.00	
12.925	12.925	(0.932)	87	23194			0.00- 95.70	44.92	
12.898	12.898	(0.930)	41	11702			0.00- 69.82	22.66	

77 Ethyl Acetate						CAS #: 141-78-6			
13.368	13.368	(0.964)	45	9754	2.00000	1.832	50.00- 150.00	100.00(a)	
13.368	13.368	(0.964)	61	11407			63.70- 163.70	116.95	
13.368	13.368	(0.964)	43	66817			641.02- 741.02	685.02	

99 Isobutanol						CAS #: 78-83-1			
14.584	14.584	(0.934)	59	514	2.00000	1.462	50.00- 150.00	100.00(aM)	
14.612	14.612	(0.936)	41	0			2254.31-2354.31	0.00	
14.612	14.612	(0.936)	43	0			2684.91-2784.91	0.00	

92 tert-amyl-Methyl Ether						CAS #: 994-05-8			
14.999	14.999	(1.082)	73	66826	2.00000	2.300	50.00- 150.00	100.00	
14.999	14.999	(1.082)	87	17103			0.00- 75.09	25.59	
14.999	14.999	(1.082)	55	17232			0.00- 74.77	25.79	

96 2-Heptanone						CAS #: 110-43-0			
21.967	21.967	(1.584)	58	25463	2.00000	1.246	50.00- 150.00	100.00(a)	
21.967	21.967	(1.584)	43	35182			85.60- 185.60	138.17	

98 1-Butanol						CAS #: 71-36-3			
15.773	15.773	(1.011)	56	11442	2.00000	1.583	50.00- 150.00	100.00(a)	
15.801	15.801	(1.012)	41	7906			17.89- 117.89	69.10	
15.801	15.801	(1.012)	43	5616			0.00- 99.85	49.08	

119 Butyl Acetate						CAS #: 123-86-4			
19.533	19.533	(1.252)	56	21766	2.00000	1.483	50.00- 150.00	100.00(a)	
19.533	19.533	(1.252)	73	10174			0.00- 94.51	46.74	
19.533	19.533	(1.252)	43	44854			163.30- 263.30	206.07	

135 Cyclohexanone						CAS #: 108-94-1			
22.741	22.741	(1.093)	55	21439	2.00000	1.540	50.00- 150.00	100.00(a)	
22.741	22.741	(1.093)	98	12520			6.71- 106.71	58.40	
22.741	22.741	(1.093)	42	13067			11.68- 111.68	60.95	

146 Diisobutyl Ketone						CAS #: 108-83-8			
23.570	23.570	(1.133)	57	47845	2.00000	1.393	50.00- 150.00	100.00(a)	

AMOUNTS									
		CAL-AMT		ON-COL					
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPEV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
146 Diisobutyl Ketone (continued)									
23.570	23.570	(1.133)	85	51453			53.67- 153.67	107.54	
0.000	1.000	(0.000)	0	0			0.00- 50.00	0.00	

QC Flag Legend

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

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msdt.i
Lab File ID: t112602.d
Lab Smp Id: ical level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: EACalibration Date: 26-NOV-2007
Calibration Time: 10:49Level: LOW
Sample Type: AIR

Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m

Misc Info: 200ppbv-2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	301939	181163	422715	307636	1.89
97 1,4-Difluorobenze	1427711	856627	1998795	1418212	-0.67
126 Chlorobenzene-d5	1047767	628660	1466874	1043769	-0.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.81	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/msdt.i/26Nov2007.b/t112602.d

Date : 26-NOV-2007 09:59

Client ID:

Sample Info: 2.0ml #1487-402

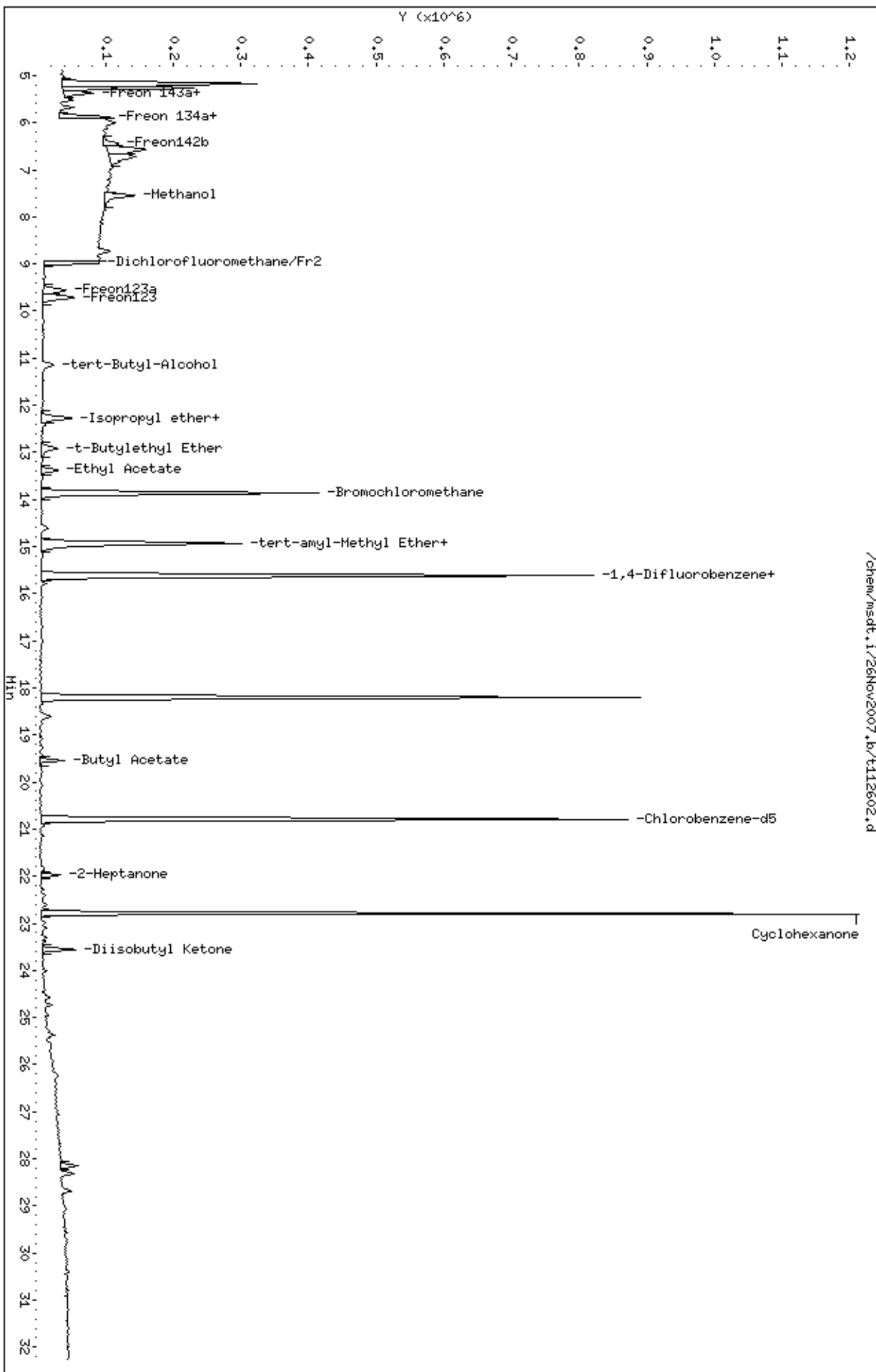
Column phase: RTX-624

Instrument: msdt.i

Operator: EA

Column diameter: 0.53

Page 1



Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112104.d
 Lab Smp Id: ical Client Smp ID: Level 3
 Inj Date : 21-NOV-2007 15:48
 Operator : dm Inst ID: msdt.i
 Smp Info : 2.0ml #1576-92
 Misc Info : 200ppbv-2.0ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
 Cal Date : 21-NOV-2007 15:48 Cal File: t112104.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.886	13.886	(1.000)	130	270233	25.0000		50.00- 150.00	100.00	
13.886	13.886	(1.000)	128	205254			26.38- 126.38	75.95	
13.858	13.858	(1.000)	49	318117			91.95- 191.95	117.72	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.628	(1.000)	114	1278371	25.0000		50.00- 150.00	100.00	
15.628	15.628	(1.000)	88	206294			0.00- 65.95	16.14	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	905933	25.0000		50.00- 150.00	100.00	
20.798	20.798	(1.000)	82	513430			5.79- 105.79	56.67	

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.936	(1.076)	65	427628	25.0000	24.548	50.00- 150.00	100.00	
14.936	14.936	(1.076)	67	218146			5.03- 105.03	51.01	

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199	(1.165)	98	1077996	25.0000	24.911	50.00- 150.00	100.00	
18.199	18.199	(1.165)	70	121007			0.00- 61.02	11.23	

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

\$ 113 Toluene-d8 (continued)										
18.199	18.199	(1.165)	100	750536			19.45- 119.45	69.62		

\$ 137 Bromofluorobenzene										
						CAS #:	460-00-4			
22.789	22.789	(1.096)	174	566238	25.0000	24.882	50.00- 150.00	100.00		
22.789	22.789	(1.096)	95	725935			77.33- 177.33	128.20		
22.789	22.789	(1.096)	176	542502			46.56- 146.56	95.81		

11 Propylene										
						CAS #:	115-07-1			
5.812	5.812	(0.419)	41	15686	2.00000	2.178	50.00- 150.00	100.00		
5.812	5.812	(0.419)	42	9468			17.24- 117.24	60.36		
5.812	5.812	(0.419)	39	11428			27.83- 127.83	72.85		

12 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
5.923	5.923	(0.427)	85	77841	2.00000	1.962	50.00- 150.00	100.00		
5.923	5.923	(0.427)	87	26374			0.00- 82.07	33.88		

16 Freon 114										
						CAS #:	76-14-2			
6.310	6.310	(0.454)	135	46453	2.00000	1.805	50.00- 150.00	100.00		
6.310	6.310	(0.454)	137	16721			0.00- 81.55	36.00		

18 Chloromethane										
						CAS #:	74-87-3			
6.531	6.531	(0.470)	50	19542	2.00000	2.134	50.00- 150.00	100.00		
6.559	6.559	(0.472)	52	6940			0.00- 84.03	35.51		

20 Vinyl Chloride										
						CAS #:	75-01-4			
6.890	6.890	(0.496)	62	24009	2.00000	1.917	50.00- 150.00	100.00		
6.890	6.890	(0.496)	64	10524			0.00- 93.71	43.83		

22 1,3-Butadiene										
						CAS #:	106-99-0			
6.973	6.973	(0.502)	54	19289	2.00000	1.892	50.00- 150.00	100.00		
6.973	6.973	(0.502)	39	19305			54.52- 154.52	100.08		

25 Bromomethane										
						CAS #:	74-83-9			
7.941	7.941	(0.572)	94	18972	2.00000	1.673	50.00- 150.00	100.00		
7.913	7.913	(0.570)	96	19402			50.48- 150.48	102.27		

27 Chloroethane										
						CAS #:	75-00-3			
8.217	8.217	(0.592)	64	11207	2.00000	1.825	50.00- 150.00	100.00		
8.217	8.217	(0.592)	49	2669			0.00- 74.88	23.82		
8.217	8.217	(0.592)	66	2722			0.00- 80.84	24.29		

31 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
8.770	8.770	(0.632)	101	99276	2.00000	1.928	50.00- 150.00	100.00		
8.770	8.770	(0.632)	103	66003			16.26- 116.26	66.48		

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
38 Ethanol						CAS #:	64-17-5			
9.241	9.241	(0.665)	45	11830	2.00000	2.016	50.00-	150.00	100.00	
9.241	9.241	(0.665)	43	2785			0.00-	72.67	23.54	
9.241	9.241	(0.665)	46	4115			0.00-	86.29	34.78	

42 Freon 113						CAS #:	76-13-1			
9.932	9.932	(0.715)	151	61163	2.00000	1.971	50.00-	150.00	100.00	
9.959	9.959	(0.717)	153	38501			15.23-	115.23	62.95	
9.932	9.932	(0.715)	101	82023			83.14-	183.14	134.11	

43 1,1-Dichloroethene						CAS #:	75-35-4			
10.042	10.042	(0.723)	61	45448	2.00000	1.934	50.00-	150.00	100.00	
10.042	10.042	(0.723)	96	28699			16.79-	116.79	63.15	
10.042	10.042	(0.723)	98	18735			0.00-	90.88	41.22	

45 Acetone						CAS #:	67-64-1			
10.181	10.181	(0.733)	58	17830	2.00000	2.080	50.00-	150.00	100.00	
10.181	10.181	(0.733)	43	54803			259.05-	359.05	307.36	

46 2-Propanol						CAS #:	67-63-0			
10.374	10.374	(0.747)	45	78267	2.00000	1.816	50.00-	150.00	100.00(a)	
10.374	10.374	(0.747)	43	23025			0.00-	73.80	29.42	
10.374	10.374	(0.747)	59	2768			0.00-	54.08	3.54	

47 Carbon Disulfide						CAS #:	75-15-0			
10.540	10.540	(0.759)	76	74020	2.00000	1.840	50.00-	150.00	100.00	

51 3-Chloropropene						CAS #:	107-05-1			
10.817	10.817	(0.779)	76	13051	2.00000	1.565	50.00-	150.00	100.00	
10.817	10.817	(0.779)	41	34903			185.00-	285.00	267.44	

54 Methylene Chloride						CAS #:	75-09-2			
11.093	11.093	(0.799)	49	28458	2.00000	2.013	50.00-	150.00	100.00	
11.121	11.121	(0.801)	84	23660			40.01-	140.01	83.14	
11.093	11.093	(0.799)	51	8308			0.00-	81.08	29.19	

60 MTBE						CAS #:	1634-04-4			
11.452	11.452	(0.825)	73	39385	2.00000	1.781	50.00-	150.00	100.00	
11.452	11.452	(0.825)	57	7932			0.00-	69.28	20.14	
11.425	11.425	(0.823)	41	8689			0.00-	69.31	22.06	

61 trans-1,2-Dichloroethene						CAS #:	156-60-5			
11.535	11.535	(0.831)	96	35623	2.00000	1.854	50.00-	150.00	100.00	
11.535	11.535	(0.831)	61	47960			83.34-	183.34	134.63	
11.535	11.535	(0.831)	98	23301			11.49-	111.49	65.41	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
65 Hexane						CAS #:	110-54-3			
11.895	11.895	(0.857)	57	57837	2.00000	1.835	50.00- 150.00	100.00		
11.895	11.895	(0.857)	43	33997			6.67- 106.67	58.78		
11.895	11.895	(0.857)	86	9821			0.00- 66.53	16.98		

69 Vinyl Acetate						CAS #:	108-05-4			
12.365	12.365	(0.890)	86	7962	2.00000	1.544	50.00- 150.00	100.00(a)		
12.365	12.365	(0.890)	43	79015			869.92- 969.92	992.40		

70 1,1-Dichloroethane						CAS #:	75-34-3			
12.365	12.365	(0.890)	63	60326	2.00000	1.848	50.00- 150.00	100.00		
12.365	12.365	(0.890)	65	18985			0.00- 81.73	31.47		

75 2-Butanone						CAS #:	78-93-3			
13.388	13.388	(0.964)	72	19285	2.00000	1.814	50.00- 150.00	100.00		
13.388	13.388	(0.964)	43	81219			362.73- 462.73	421.15		
13.388	13.388	(0.964)	57	5458			0.00- 79.31	28.30		

76 cis-1,2-Dichloroethene						CAS #:	156-59-2			
13.416	13.416	(0.966)	61	43195	2.00000	1.846	50.00- 150.00	100.00		
13.416	13.416	(0.966)	96	34309			30.20- 130.20	79.43		
13.416	13.416	(0.966)	98	21557			0.03- 100.03	49.91		

80 Tetrahydrofuran						CAS #:	109-99-9			
13.858	13.858	(0.998)	42	32077	2.00000	1.820	50.00- 150.00	100.00		
13.858	13.858	(0.998)	71	16512			0.15- 100.15	51.48		
13.858	13.858	(0.998)	72	17589			4.67- 104.67	54.83		

82 Chloroform						CAS #:	67-66-3			
13.941	13.941	(1.004)	83	72684	2.00000	1.996	50.00- 150.00	100.00		
13.941	13.941	(1.004)	85	45987			16.84- 116.84	63.27		

83 1,1,1-Trichloroethane						CAS #:	71-55-6			
14.273	14.273	(1.028)	97	77002	2.00000	1.997	50.00- 150.00	100.00		
14.273	14.273	(1.028)	99	48432			13.29- 113.29	62.90		

85 Cyclohexane						CAS #:	110-82-7			
14.300	14.300	(1.030)	84	37405	2.00000	1.730	50.00- 150.00	100.00		
14.300	14.300	(1.030)	56	37684			49.76- 149.76	100.75		
14.300	14.300	(1.030)	41	21198			3.69- 103.69	56.67		

87 Carbon Tetrachloride						CAS #:	56-23-5			
14.549	14.549	(1.048)	119	70245	2.00000	1.941	50.00- 150.00	100.00		
14.549	14.549	(1.048)	117	71438			54.35- 154.35	101.70		

91 Benzene						CAS #:	71-43-2			
14.964	14.964	(0.958)	78	102300	2.00000	1.876	50.00- 150.00	100.00		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
91 Benzene (continued)									
14.964	14.964	(0.958)	77	23703			0.00- 72.49	23.17	

89 2,2,4-Trimethylpentane CAS #: 540-84-1									
14.881	14.881	(1.072)	57	151437	2.00000	1.972	50.00- 150.00	100.00	
14.881	14.881	(1.072)	56	49574			0.00- 82.34	32.74	
14.881	14.881	(1.072)	41	40871			0.00- 76.30	26.99	

93 1,2-Dichloroethane CAS #: 107-06-2									
15.075	15.075	(0.965)	62	47814	2.00000	1.865	50.00- 150.00	100.00	
15.075	15.075	(0.965)	64	17650			0.00- 84.21	36.91	

94 Heptane CAS #: 142-82-5									
15.185	15.185	(0.972)	71	33065	2.00000	1.680	50.00- 150.00	100.00	
15.185	15.185	(0.972)	43	48610			86.68- 186.68	147.01	
15.185	15.185	(0.972)	57	29672			32.20- 132.20	89.74	

101 Trichloroethene CAS #: 79-01-6									
16.070	16.070	(1.028)	95	48210	2.00000	1.936	50.00- 150.00	100.00	
16.098	16.098	(1.030)	130	47074			47.47- 147.47	97.64	
16.070	16.070	(1.028)	97	29616			14.52- 114.52	61.43	

104 1,2-Dichloropropane CAS #: 78-87-5									
16.568	16.568	(1.060)	63	36325	2.00000	1.948	50.00- 150.00	100.00	
16.568	16.568	(1.060)	62	23692			17.52- 117.52	65.22	
16.568	16.568	(1.060)	41	18467			0.97- 100.97	50.84	

106 1,4-Dioxane CAS #: 123-91-1									
16.706	16.706	(1.069)	88	25651	2.00000	1.586	50.00- 150.00	100.00(a)	
16.706	16.706	(1.069)	58	15206			6.89- 106.89	59.28	
16.678	16.678	(1.067)	57	5300			0.00- 69.74	20.66	

107 Bromodichloromethane CAS #: 75-27-4									
16.982	16.982	(1.087)	83	75607	2.00000	1.861	50.00- 150.00	100.00	
17.010	17.010	(1.088)	85	48721			14.67- 114.67	64.44	

110 cis-1,3-Dichloropropene CAS #: 10061-01-5									
17.784	17.784	(1.138)	75	52983	2.00000	1.783	50.00- 150.00	100.00	
17.784	17.784	(1.138)	77	16415			0.00- 83.04	30.98	
17.784	17.784	(1.138)	39	23843			0.00- 93.89	45.00	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.978	17.978	(1.150)	58	28496	2.00000	1.533	50.00- 150.00	100.00	
17.978	17.978	(1.150)	43	63824			169.12- 269.12	223.98	
17.978	17.978	(1.150)	85	14750			0.58- 100.58	51.76	

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

114 Toluene						CAS #: 108-88-3			
18.337	18.337	(1.173)	91	110459	2.00000	1.825	50.00- 150.00	100.00	
18.337	18.337	(1.173)	92	67078			11.10- 111.10	60.73	

116 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
18.752	18.752	(0.902)	75	55823	2.00000	1.828	50.00- 150.00	100.00	
18.780	18.780	(0.903)	77	17877			0.00- 83.38	32.02	
18.752	18.752	(0.902)	39	22899			0.00- 92.03	41.02	

117 1,1,2-Trichloroethane						CAS #: 79-00-5			
19.111	19.111	(0.919)	97	40565	2.00000	1.896	50.00- 150.00	100.00	
19.111	19.111	(0.919)	99	26631			14.64- 114.64	65.65	
19.111	19.111	(0.919)	83	35194			37.04- 137.04	86.76	

120 Tetrachloroethene						CAS #: 127-18-4			
19.277	19.277	(0.927)	166	54526	2.00000	1.906	50.00- 150.00	100.00	
19.277	19.277	(0.927)	129	38721			21.89- 121.89	71.01	
19.277	19.277	(0.927)	131	36803			19.59- 119.59	67.50	

121 2-Hexanone						CAS #: 591-78-6			
19.416	19.416	(0.934)	58	38677	2.00000	1.394	50.00- 150.00	100.00(a)	
19.416	19.416	(0.934)	43	66721			114.75- 214.75	172.51	
19.443	19.443	(0.935)	100	8102			0.00- 71.95	20.95	

122 Dibromochloromethane						CAS #: 124-48-1			
19.803	19.803	(0.952)	129	64601	2.00000	1.815	50.00- 150.00	100.00	
19.803	19.803	(0.952)	127	49230			26.41- 126.41	76.21	

123 1,2-Dibromoethane						CAS #: 106-93-4			
20.079	20.079	(0.965)	107	62076	2.00000	1.805	50.00- 150.00	100.00	
20.051	20.051	(0.964)	109	57247			43.48- 143.48	92.22	

127 Chlorobenzene						CAS #: 108-90-7			
20.853	20.853	(1.003)	112	86369	2.00000	1.801	50.00- 150.00	100.00	
20.853	20.853	(1.003)	114	29287			0.00- 83.18	33.91	
20.853	20.853	(1.003)	77	60790			20.20- 120.20	70.38	

128 Ethyl Benzene						CAS #: 100-41-4			
20.936	20.936	(1.007)	106	46047	2.00000	1.856	50.00- 150.00	100.00	
20.936	20.936	(1.007)	91	137670			265.06- 365.06	298.98	

129 m,p-Xylene						CAS #: 108-38-3			
21.130	21.130	(1.016)	106	52698	2.00000	1.710	50.00- 150.00	100.00	
21.130	21.130	(1.016)	91	106531			147.41- 247.41	202.15	

130 o-Xylene						CAS #: 95-47-6			
21.849	21.849	(1.051)	106	47321	2.00000	1.666	50.00- 150.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 o-Xylene (continued)									
21.849	21.849	(1.051)	91	100495			155.82- 255.82	212.37	

131 Styrene									
21.876	21.876	(1.052)	104	75527	2.00000	1.682	50.00- 150.00	100.00	
21.876	21.876	(1.052)	78	40665			9.19- 109.19	53.84	

133 Bromoform									
22.291	22.291	(1.072)	173	57494	2.00000	1.707	50.00- 150.00	100.00	
22.291	22.291	(1.072)	171	27789			0.74- 100.74	48.33	

134 Cumene									
22.429	22.429	(1.078)	105	134966	2.00000	1.810	50.00- 150.00	100.00	
22.429	22.429	(1.078)	120	35077			0.00- 75.99	25.99	
22.429	22.429	(1.078)	51	11297			9.74- 109.74	8.37	

140 1,1,2,2-Tetrachloroethane									
23.010	23.010	(1.106)	83	83027	2.00000	1.837	50.00- 150.00	100.00	
23.010	23.010	(1.106)	85	51158			14.88- 114.88	61.62	

142 Propylbenzene									
23.121	23.121	(1.112)	91	166480	2.00000	1.694	50.00- 150.00	100.00	
23.121	23.121	(1.112)	120	38470			0.00- 72.67	23.11	
23.121	23.121	(1.112)	105	6241			0.00- 53.69	3.75	

145 4-Ethyltoluene									
23.286	23.286	(1.120)	105	143422	2.00000	1.716	50.00- 150.00	100.00	
23.286	23.286	(1.120)	120	42561			0.00- 80.49	29.68	

147 1,3,5-Trimethylbenzene									
23.397	23.397	(1.125)	105	121924	2.00000	1.762	50.00- 150.00	100.00	
23.397	23.397	(1.125)	120	60226			1.60- 101.60	49.40	

150 1,2,4-Trimethylbenzene									
24.033	24.033	(1.156)	105	109484	2.00000	1.658	50.00- 150.00	100.00	
24.033	24.033	(1.156)	120	52557			0.00- 96.88	48.00	

155 1,3-Dichlorobenzene									
24.586	24.586	(1.182)	146	84540	2.00000	1.822	50.00- 150.00	100.00	
24.586	24.586	(1.182)	148	53837			14.03- 114.03	63.68	
24.586	24.586	(1.182)	111	36137			0.00- 91.33	42.75	

156 1,4-Dichlorobenzene									
24.724	24.724	(1.189)	146	89479	2.00000	1.873	50.00- 150.00	100.00	
24.752	24.752	(1.190)	148	55939			15.04- 115.04	62.52	
24.724	24.724	(1.189)	111	34706			0.00- 89.92	38.79	

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

159	alpha-Chlorotoluene					CAS #: 100-44-7			
24.945	24.945	(1.199)	91	108224	2.00000	1.602	50.00- 150.00	100.00	
24.945	24.945	(1.199)	126	21240			0.00- 70.12	19.63	

161	1,2-Dichlorobenzene					CAS #: 95-50-1			
25.360	25.360	(1.219)	146	87371	2.00000	1.901	50.00- 150.00	100.00	
25.360	25.360	(1.219)	148	54625			14.55- 114.55	62.52	
25.360	25.360	(1.219)	111	36061			0.00- 93.18	41.27	

165	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
28.153	28.153	(1.354)	180	86052	2.00000	1.958	50.00- 150.00	100.00(a)	
28.153	28.153	(1.354)	182	80453			44.49- 144.49	93.49	

166	Hexachlorobutadiene					CAS #: 87-68-3			
28.319	28.319	(1.362)	225	67088	2.00000	2.087	50.00- 150.00	100.00	
28.319	28.319	(1.362)	223	45189			14.10- 114.10	67.36	

19	Butane					CAS #: 106-97-8			
6.807	6.807	(0.490)	58	4620	2.00000	1.885	50.00- 150.00	100.00(a)	
6.807	6.807	(0.490)	43	34782			668.04- 768.04	752.86	

29	Isopentane					CAS #: 78-78-4			
8.245	8.245	(0.594)	43	37339	2.00000	1.885	50.00- 150.00	100.00(a)	
8.273	8.273	(0.596)	57	28657			26.21- 126.21	76.75	

102	Methyl Cyclohexane					CAS #: 108-87-2			
16.346	16.346	(1.177)	83	49266	2.00000	1.760	50.00- 150.00	100.00	
16.346	16.346	(1.177)	98	21906			0.00- 92.45	44.46	
16.346	16.346	(1.177)	55	34981			18.10- 118.10	71.00	

167	Naphthalene					CAS #: 91-20-3			
28.678	28.678	(1.379)	128	114530	2.00000	1.811	50.00- 150.00	100.00(a)	
28.678	28.678	(1.379)	127	15017			0.00- 62.43	13.11	

QC Flag Legend

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

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 23-NOV-2007

Lab File ID: t112104.d

Calibration Time: 09:32

Lab Smp Id: ical

Client Smp ID: Level 3

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: dm

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv-2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	364898	218939	510857	270233	-25.94
97 1,4-Difluorobenze	1716816	1030090	2403542	1278371	-25.54
126 Chlorobenzene-d5	1199182	719509	1678855	905933	-24.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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/msdt,i/21Nov2007,b/t112104.d

Date: 21-NOV-2007 15:48

Client ID: Level 3

Sample Info: 2.0ml #1576-92

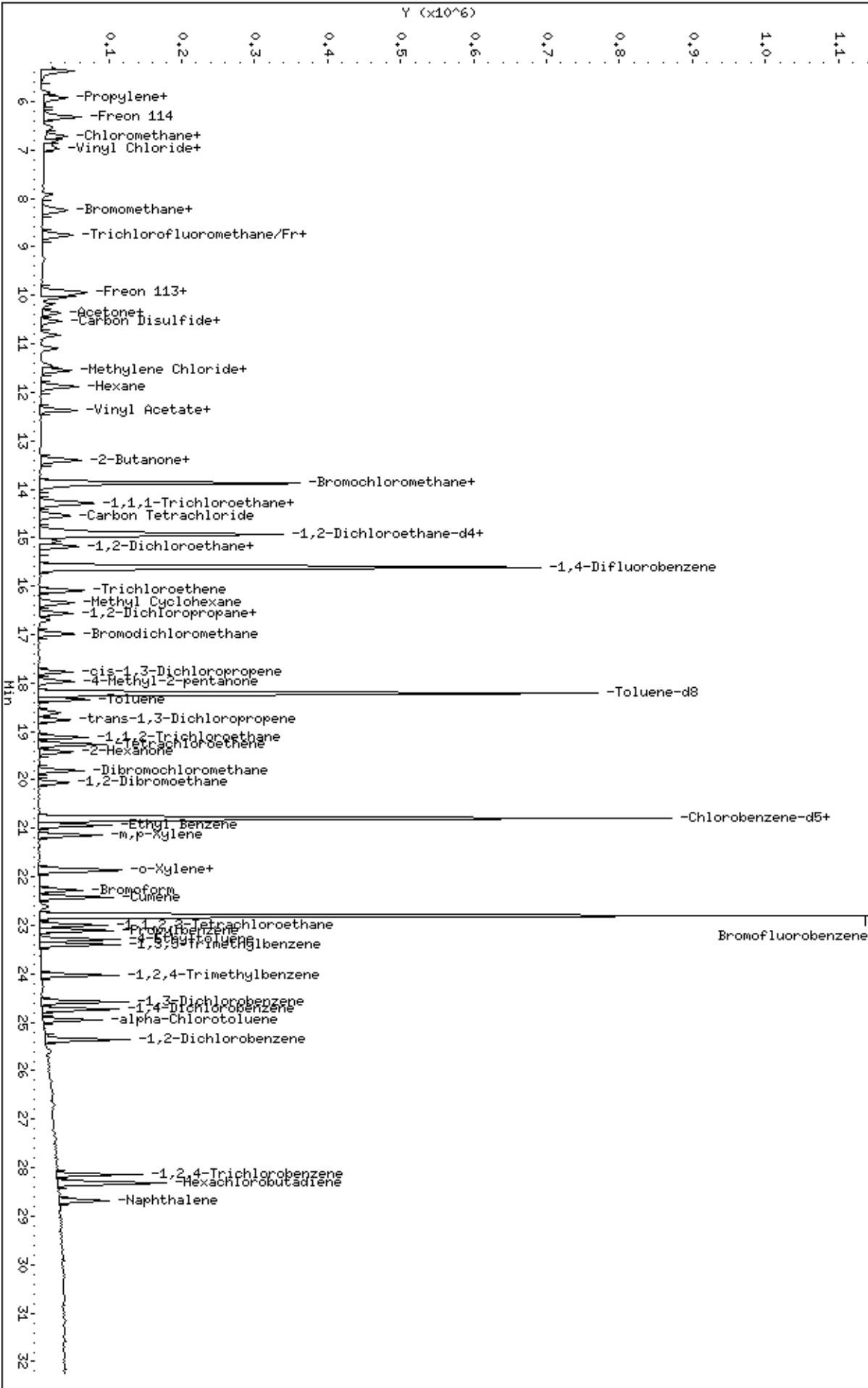
Column phase: RTX-624

Instrument: msdt,i

Operator: dm

Column diameter: 0.53

/chem/msdt,i/21Nov2007,b/t112104.d



Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112608.d
 Lab Smp Id: ical level 4
 Inj Date : 26-NOV-2007 15:28
 Operator : ea Inst ID: msdt.i
 Smp Info : 8.0ml #1487-402
 Misc Info : 200ppbv-8ppbv
 Comment :
 Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Meth Date : 27-Nov-2007 14:00 lover Quant Type: ISTD
 Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sp22b.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.865	13.865	(1.000)	130	305186	25.0000		50.00- 150.00	100.00	
13.865	13.865	(1.000)	128	230653			26.64- 126.64	75.58	
13.865	13.865	(1.000)	49	315789			73.62- 173.62	103.47	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.607	15.607	(1.000)	114	1391788	25.0000		50.00- 150.00	100.00	
15.607	15.607	(1.000)	88	215127			0.00- 65.84	15.46	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.805	20.805	(1.000)	117	1019619	25.0000		50.00- 150.00	100.00	
20.805	20.805	(1.000)	82	551342			4.93- 104.93	54.07	

5 Freon 143a CAS #: 420-46-2									
5.535	5.535	(0.399)	69	128088	8.00000	6.526	50.00- 150.00	100.00	

6 Freon142b CAS #: 75-68-3									
6.464	6.464	(0.466)	65	195519	8.00000	6.703	50.00- 150.00	100.00	
6.464	6.464	(0.466)	45	39080			0.00- 69.76	19.99	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
9 Freon 13						CAS #: 75-72-9			
5.394	5.394	(0.389)	69	206843	8.00000	7.771	50.00- 150.00	100.00	
5.394	5.394	(0.389)	85	66311			0.00- 82.40	32.06	
5.394	5.394	(0.389)	87	22108			0.00- 60.56	10.69	

13 Freon 134a						CAS #: 811-97-2			
5.704	5.704	(0.411)	83	92435	8.00000	6.692	50.00- 150.00	100.00	
5.675	5.675	(0.409)	69	77312			31.14- 131.14	83.64	

15 Freon 152a						CAS #: 75-37-6			
5.844	5.844	(0.422)	65	46329	8.00000	6.481	50.00- 150.00	100.00	
5.844	5.844	(0.422)	51	80641			117.84- 217.84	174.06	
5.872	5.872	(0.424)	47	19070			0.00- 88.39	41.16	

17 Freon 22						CAS #: 75-45-6			
6.013	6.013	(0.434)	67	24920	8.00000	6.829	50.00- 150.00	100.00	
6.013	6.013	(0.434)	51	124488			439.12- 539.12	499.55	
6.013	6.013	(0.434)	85	3727			0.00- 91.16	14.96	

26 Methanol						CAS #: 67-56-1			
7.562	7.562	(0.545)	31	139497	48.0000	44.470	50.00- 150.00	100.00(a)	
7.562	7.562	(0.545)	32	225660			73.38- 173.38	161.77	

34 Dichlorofluoromethane/Fr21						CAS #: 75-43-4			
8.745	8.745	(0.631)	67	158908	8.00000	6.502	50.00- 150.00	100.00	
8.745	8.745	(0.631)	69	52258			0.00- 82.06	32.89	
8.745	8.745	(0.631)	35	7914			0.00- 54.92	4.98	

40 Freon123a						CAS #: 354-23-4			
9.580	9.580	(0.691)	67	165063	8.00000	6.896	50.00- 150.00	100.00	
9.580	9.580	(0.691)	117	133947			30.97- 130.97	81.15	

41 Freon123						CAS #: 306-83-2			
9.718	9.718	(0.701)	83	230834	8.00000	6.966	50.00- 150.00	100.00	
9.718	9.718	(0.701)	133	46626			0.00- 70.26	20.20	
9.718	9.718	(0.701)	85	156974			17.95- 117.95	68.00	

57 tert-Butyl-Alcohol						CAS #: 75-65-0			
11.156	11.156	(0.805)	59	112274	8.00000	6.945	50.00- 150.00	100.00	
11.156	11.156	(0.805)	41	24251			0.00- 78.87	21.60	
11.156	11.156	(0.805)	57	11822			0.00- 61.35	10.53	

68 Isopropyl ether						CAS #: 108-20-3			
12.289	12.289	(0.886)	45	329262	8.00000	6.570	50.00- 150.00	100.00	
12.289	12.289	(0.886)	87	117116			0.00- 84.51	35.57	
12.289	12.289	(0.886)	59	42262			0.00- 62.64	12.84	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
71 1-Propanol						CAS #: 71-23-8			
12.400	12.400	(0.894)	42	15400	8.00000	5.840	50.00- 150.00	100.00(H)	
12.400	12.400	(0.894)	59	20411			75.45- 175.45	132.54	
12.289	12.289	(0.886)	41	70405			158.05- 258.05	457.18	

73 t-Butylethyl Ether						CAS #: 637-92-3			
12.925	12.925	(0.932)	59	167003	8.00000	6.856	50.00- 150.00	100.00	
12.925	12.925	(0.932)	87	77183			0.00- 95.70	46.22	
12.925	12.925	(0.932)	41	31852			0.00- 69.82	19.07	

77 Ethyl Acetate						CAS #: 141-78-6			
13.395	13.395	(0.966)	45	36164	8.00000	6.847	50.00- 150.00	100.00	
13.395	13.395	(0.966)	61	39462			63.70- 163.70	109.12	
13.395	13.395	(0.966)	43	247242			641.02- 741.02	683.67	

99 Isobutanol						CAS #: 78-83-1			
14.612	14.612	(0.936)	59	1891	8.00000	5.482	50.00- 150.00	100.00	
14.612	14.612	(0.936)	41	47030			2254.31-2354.31	2487.04	
14.612	14.612	(0.936)	43	51667			2684.91-2784.91	2732.26	

92 tert-amyl-Methyl Ether						CAS #: 994-05-8			
14.999	14.999	(1.082)	73	213130	8.00000	7.396	50.00- 150.00	100.00	
14.999	14.999	(1.082)	87	52173			0.00- 75.09	24.48	
14.999	14.999	(1.082)	55	52659			0.00- 74.77	24.71	

96 2-Heptanone						CAS #: 110-43-0			
21.966	21.966	(1.584)	58	110555	8.00000	5.453	50.00- 150.00	100.00	
21.966	21.966	(1.584)	43	145663			85.60- 185.60	131.76	

98 1-Butanol						CAS #: 71-36-3			
15.801	15.801	(1.012)	56	43814	8.00000	6.178	50.00- 150.00	100.00	
15.801	15.801	(1.012)	41	30834			17.89- 117.89	70.37	
15.801	15.801	(1.012)	43	22424			0.00- 99.85	51.18	

119 Butyl Acetate						CAS #: 123-86-4			
19.533	19.533	(1.252)	56	82367	8.00000	5.720	50.00- 150.00	100.00	
19.533	19.533	(1.252)	73	36423			0.00- 94.51	44.22	
19.533	19.533	(1.252)	43	180360			163.30- 263.30	218.97	

135 Cyclohexanone						CAS #: 108-94-1			
22.741	22.741	(1.093)	55	81884	8.00000	6.021	50.00- 150.00	100.00	
22.741	22.741	(1.093)	98	44200			6.71- 106.71	53.98	
22.741	22.741	(1.093)	42	49745			11.68- 111.68	60.75	

146 Diisobutyl Ketone						CAS #: 108-83-8			
23.570	23.570	(1.133)	57	195328	8.00000	5.821	50.00- 150.00	100.00	

Report Date: 27-Nov-2007 14:00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
146 Diisobutyl Ketone (continued)									
23.570	23.570	(1.133)	85	198925			53.67- 153.67	101.84	
0.000	1.000	(0.000)	0	0			0.00- 50.00	0.00	

QC Flag Legend

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

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
 Lab File ID: t112608.d
 Lab Smp Id: ical level 4
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ea
 Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Misc Info: 200ppbv-8ppbv

Calibration Date: 26-NOV-2007
 Calibration Time: 10:49
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	301939	181163	422715	305186	1.08
97 1,4-Difluorobenze	1427711	856627	1998795	1391788	-2.52
126 Chlorobenzene-d5	1047767	628660	1466874	1019619	-2.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.81	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/msdt,i/26Nov2007,b/t112608.d

Date : 26-NOV-2007 15:28

Client ID:

Sample Info: 8.0ml #1487-402

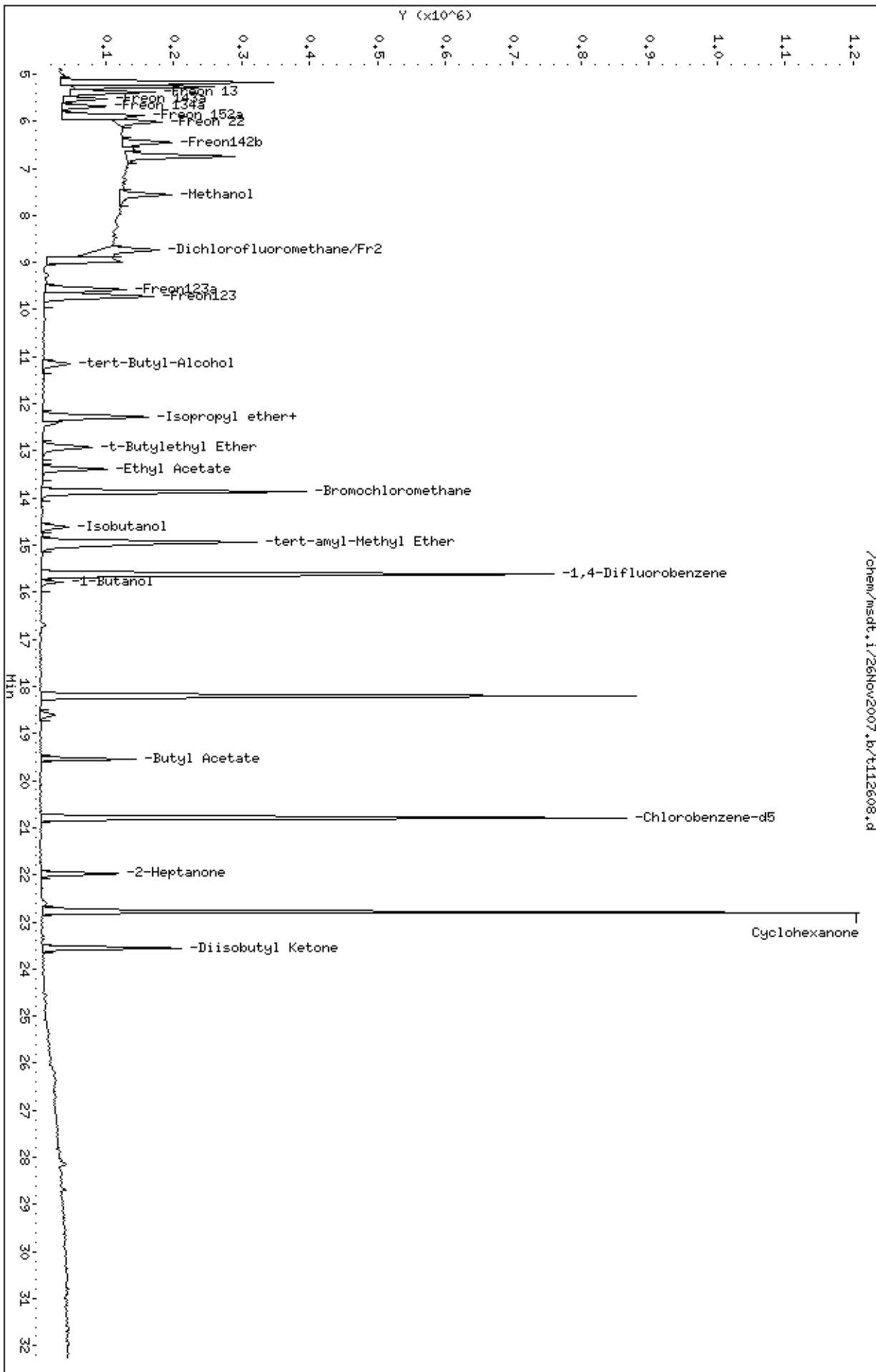
Column phase: RTX-624

Instrument: msdt,i

Operator: ea

Column diameter: 0.53

Page 1



Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112105.d
 Lab Smp Id: ical Client Smp ID: Level 4
 Inj Date : 21-NOV-2007 16:33
 Operator : dm Inst ID: msdt.i
 Smp Info : 25ml #1576-92
 Misc Info : 200ppbv-25ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
 Cal Date : 21-NOV-2007 16:33 Cal File: t112105.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.858	13.858	(1.000)	130	307764	25.0000		50.00- 150.00	100.00	
13.858	13.858	(1.000)	128	233821			26.38- 126.38	75.97	
13.858	13.858	(1.000)	49	443512			91.95- 191.95	144.11	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.628	(1.000)	114	1370043	25.0000		50.00- 150.00	100.00	
15.628	15.628	(1.000)	88	216005			0.00- 65.95	15.77	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	940060	25.0000		50.00- 150.00	100.00	
20.798	20.798	(1.000)	82	521343			5.79- 105.79	55.46	

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.936	(1.078)	65	485211	25.0000	24.457	50.00- 150.00	100.00	
14.936	14.936	(1.078)	67	266945			5.03- 105.03	55.02	

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199	(1.165)	98	1129764	25.0000	24.360	50.00- 150.00	100.00	
18.199	18.199	(1.165)	70	124723			0.00- 61.02	11.04	

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

\$ 113 Toluene-d8 (continued)										
18.199	18.199	(1.165)	100	772981			19.45- 119.45	68.42		

\$ 137 Bromofluorobenzene										
						CAS #:	460-00-4			
22.789	22.789	(1.096)	174	587777	25.0000	24.891	50.00- 150.00	100.00		
22.789	22.789	(1.096)	95	754934			77.33- 177.33	128.44		
22.789	22.789	(1.096)	176	572655			46.56- 146.56	97.43		

11 Propylene										
						CAS #:	115-07-1			
5.812	5.812	(0.419)	41	203101	25.0000	24.767	50.00- 150.00	100.00		
5.812	5.812	(0.419)	42	142941			17.24- 117.24	70.38		
5.812	5.812	(0.419)	39	164882			27.83- 127.83	81.18		

12 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
5.923	5.923	(0.427)	85	1162226	25.0000	25.717	50.00- 150.00	100.00		
5.923	5.923	(0.427)	87	368302			0.00- 82.07	31.69		

16 Freon 114										
						CAS #:	76-14-2			
6.310	6.310	(0.455)	135	767796	25.0000	26.198	50.00- 150.00	100.00		
6.310	6.310	(0.455)	137	244740			0.00- 81.55	31.88		

18 Chloromethane										
						CAS #:	74-87-3			
6.531	6.531	(0.471)	50	257665	25.0000	24.712	50.00- 150.00	100.00		
6.531	6.531	(0.471)	52	86986			0.00- 84.03	33.76		

20 Vinyl Chloride										
						CAS #:	75-01-4			
6.890	6.890	(0.497)	62	371581	25.0000	26.054	50.00- 150.00	100.00		
6.890	6.890	(0.497)	64	123575			0.00- 93.71	33.26		

22 1,3-Butadiene										
						CAS #:	106-99-0			
6.946	6.946	(0.501)	54	346553	25.0000	29.846	50.00- 150.00	100.00		
6.946	6.946	(0.501)	39	330061			54.52- 154.52	95.24		

25 Bromomethane										
						CAS #:	74-83-9			
7.913	7.913	(0.571)	94	338309	25.0000	26.194	50.00- 150.00	100.00		
7.913	7.913	(0.571)	96	311427			50.48- 150.48	92.05		

27 Chloroethane										
						CAS #:	75-00-3			
8.190	8.190	(0.591)	64	183978	25.0000	26.313	50.00- 150.00	100.00		
8.190	8.190	(0.591)	49	46568			0.00- 74.88	25.31		
8.190	8.190	(0.591)	66	58516			0.00- 80.84	31.81		

31 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
8.771	8.771	(0.633)	101	1702100	25.0000	29.019	50.00- 150.00	100.00		
8.771	8.771	(0.633)	103	1102413			16.26- 116.26	64.77		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Ethanol						CAS #: 64-17-5			
9.241	9.241	(0.667)	45	194543	25.0000	29.103	50.00- 150.00	100.00	
9.241	9.241	(0.667)	43	45550			0.00- 72.67	23.41	
9.241	9.241	(0.667)	46	70896			0.00- 86.29	36.44	

42 Freon 113						CAS #: 76-13-1			
9.932	9.932	(0.717)	151	999258	25.0000	28.275	50.00- 150.00	100.00	
9.932	9.932	(0.717)	153	643765			15.23- 115.23	64.42	
9.932	9.932	(0.717)	101	1298899			83.14- 183.14	129.99	

43 1,1-Dichloroethene						CAS #: 75-35-4			
10.015	10.015	(0.723)	61	778227	25.0000	29.081	50.00- 150.00	100.00	
10.043	10.043	(0.725)	96	476604			16.79- 116.79	61.24	
10.043	10.043	(0.725)	98	307293			0.00- 90.88	39.49	

45 Acetone						CAS #: 67-64-1			
10.181	10.181	(0.735)	58	265958	25.0000	27.239	50.00- 150.00	100.00	
10.181	10.181	(0.735)	43	843581			259.05- 359.05	317.19	

46 2-Propanol						CAS #: 67-63-0			
10.374	10.374	(0.749)	45	1357918	25.0000	27.672	50.00- 150.00	100.00	
10.374	10.374	(0.749)	43	305750			0.00- 73.80	22.52	
10.374	10.374	(0.749)	59	56586			0.00- 54.08	4.17	

47 Carbon Disulfide						CAS #: 75-15-0			
10.540	10.540	(0.761)	76	1244087	25.0000	27.148	50.00- 150.00	100.00	

51 3-Chloropropene						CAS #: 107-05-1			
10.817	10.817	(0.781)	76	262201	25.0000	27.603	50.00- 150.00	100.00	
10.817	10.817	(0.781)	41	611959			185.00- 285.00	233.39	

54 Methylene Chloride						CAS #: 75-09-2			
11.093	11.093	(0.800)	49	434956	25.0000	27.016	50.00- 150.00	100.00	
11.093	11.093	(0.800)	84	385491			40.01- 140.01	88.63	
11.093	11.093	(0.800)	51	135319			0.00- 81.08	31.11	

60 MTBE						CAS #: 1634-04-4			
11.453	11.453	(0.826)	73	647227	25.0000	25.697	50.00- 150.00	100.00	
11.453	11.453	(0.826)	57	125806			0.00- 69.28	19.44	
11.453	11.453	(0.826)	41	129401			0.00- 69.31	19.99	

61 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.536	11.536	(0.832)	96	600822	25.0000	27.456	50.00- 150.00	100.00	
11.536	11.536	(0.832)	61	832371			83.34- 183.34	138.54	
11.536	11.536	(0.832)	98	380971			11.49- 111.49	63.41	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
65 Hexane						CAS #: 110-54-3			
11.895	11.895	(0.858)	57	989059	25.0000	27.556	50.00- 150.00	100.00	
11.895	11.895	(0.858)	43	580537			6.67- 106.67	58.70	
11.895	11.895	(0.858)	86	173680			0.00- 66.53	17.56	

69 Vinyl Acetate						CAS #: 108-05-4			
12.365	12.365	(0.892)	86	152714	25.0000	26.000	50.00- 150.00	100.00	
12.337	12.337	(0.890)	43	1439290			869.92- 969.92	942.47	

70 1,1-Dichloroethane						CAS #: 75-34-3			
12.365	12.365	(0.892)	63	1055871	25.0000	28.394	50.00- 150.00	100.00	
12.365	12.365	(0.892)	65	337767			0.00- 81.73	31.99	

75 2-Butanone						CAS #: 78-93-3			
13.388	13.388	(0.966)	72	335958	25.0000	27.744	50.00- 150.00	100.00	
13.388	13.388	(0.966)	43	1404803			362.73- 462.73	418.15	
13.388	13.388	(0.966)	57	100302			0.00- 79.31	29.86	

76 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.416	13.416	(0.968)	61	757924	25.0000	28.436	50.00- 150.00	100.00	
13.416	13.416	(0.968)	96	565959			30.20- 130.20	74.67	
13.416	13.416	(0.968)	98	371322			0.03- 100.03	48.99	

80 Tetrahydrofuran						CAS #: 109-99-9			
13.858	13.858	(1.000)	42	567073	25.0000	28.244	50.00- 150.00	100.00	
13.858	13.858	(1.000)	71	281975			0.15- 100.15	49.72	
13.858	13.858	(1.000)	72	313041			4.67- 104.67	55.20	

82 Chloroform						CAS #: 67-66-3			
13.941	13.941	(1.006)	83	1235702	25.0000	29.804	50.00- 150.00	100.00	
13.941	13.941	(1.006)	85	804653			16.84- 116.84	65.12	

83 1,1,1-Trichloroethane						CAS #: 71-55-6			
14.273	14.273	(1.030)	97	1186213	25.0000	27.015	50.00- 150.00	100.00	
14.273	14.273	(1.030)	99	762914			13.29- 113.29	64.32	

85 Cyclohexane						CAS #: 110-82-7			
14.300	14.300	(1.032)	84	660623	25.0000	26.824	50.00- 150.00	100.00	
14.300	14.300	(1.032)	56	676088			49.76- 149.76	102.34	
14.300	14.300	(1.032)	41	349221			3.69- 103.69	52.86	

87 Carbon Tetrachloride						CAS #: 56-23-5			
14.549	14.549	(1.050)	119	1141957	25.0000	27.708	50.00- 150.00	100.00	
14.549	14.549	(1.050)	117	1206884			54.35- 154.35	105.69	

89 2,2,4-Trimethylpentane						CAS #: 540-84-1			
14.881	14.881	(1.074)	57	2489804	25.0000	28.466	50.00- 150.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
89 2,2,4-Trimethylpentane (continued)									
14.881	14.881	(1.074)	56	810762			0.00- 82.34	32.56	
14.881	14.881	(1.074)	41	636707			0.00- 76.30	25.57	

91 Benzene CAS #: 71-43-2									
14.964	14.964	(0.958)	78	1660183	25.0000	28.403	50.00- 150.00	100.00	
14.964	14.964	(0.958)	77	385311			0.00- 72.49	23.21	

93 1,2-Dichloroethane CAS #: 107-06-2									
15.075	15.075	(0.965)	62	799362	25.0000	29.088	50.00- 150.00	100.00	
15.075	15.075	(0.965)	64	262062			0.00- 84.21	32.78	

94 Heptane CAS #: 142-82-5									
15.185	15.185	(0.972)	71	596501	25.0000	28.284	50.00- 150.00	100.00	
15.185	15.185	(0.972)	43	818532			86.68- 186.68	137.22	
15.185	15.185	(0.972)	57	484028			32.20- 132.20	81.14	

101 Trichloroethene CAS #: 79-01-6									
16.070	16.070	(1.028)	95	772261	25.0000	28.941	50.00- 150.00	100.00	
16.098	16.098	(1.030)	130	738216			47.47- 147.47	95.59	
16.070	16.070	(1.028)	97	490876			14.52- 114.52	63.56	

104 1,2-Dichloropropane CAS #: 78-87-5									
16.568	16.568	(1.060)	63	549610	25.0000	27.500	50.00- 150.00	100.00	
16.568	16.568	(1.060)	62	400505			17.52- 117.52	72.87	
16.568	16.568	(1.060)	41	287303			0.97- 100.97	52.27	

106 1,4-Dioxane CAS #: 123-91-1									
16.706	16.706	(1.069)	88	456280	25.0000	26.321	50.00- 150.00	100.00	
16.678	16.678	(1.067)	58	262102			6.89- 106.89	57.44	
16.678	16.678	(1.067)	57	92473			0.00- 69.74	20.27	

107 Bromodichloromethane CAS #: 75-27-4									
17.010	17.010	(1.088)	83	1256923	25.0000	28.869	50.00- 150.00	100.00	
17.010	17.010	(1.088)	85	811506			14.67- 114.67	64.56	

110 cis-1,3-Dichloropropene CAS #: 10061-01-5									
17.784	17.784	(1.138)	75	915311	25.0000	28.746	50.00- 150.00	100.00	
17.784	17.784	(1.138)	77	288098			0.00- 83.04	31.48	
17.784	17.784	(1.138)	39	386195			0.00- 93.89	42.19	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.978	17.978	(1.150)	58	569196	25.0000	28.569	50.00- 150.00	100.00	
17.978	17.978	(1.150)	43	1290577			169.12- 269.12	226.74	
17.978	17.978	(1.150)	85	289445			0.58- 100.58	50.85	

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

114 Toluene						CAS #: 108-88-3			
18.337	18.337	(1.173)	91	1788626	25.0000	27.580	50.00- 150.00	100.00	
18.337	18.337	(1.173)	92	1106169			11.10- 111.10	61.84	

116 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
18.780	18.780	(0.903)	75	953850	25.0000	30.099	50.00- 150.00	100.00	
18.780	18.780	(0.903)	77	309448			0.00- 83.38	32.44	
18.752	18.752	(0.902)	39	371463			0.00- 92.03	38.94	

117 1,1,2-Trichloroethane						CAS #: 79-00-5			
19.112	19.112	(0.919)	97	668692	25.0000	30.124	50.00- 150.00	100.00	
19.112	19.112	(0.919)	99	421262			14.64- 114.64	63.00	
19.112	19.112	(0.919)	83	553240			37.04- 137.04	82.73	

120 Tetrachloroethene						CAS #: 127-18-4			
19.277	19.277	(0.927)	166	892868	25.0000	30.080	50.00- 150.00	100.00	
19.277	19.277	(0.927)	129	628626			21.89- 121.89	70.41	
19.277	19.277	(0.927)	131	595581			19.59- 119.59	66.70	

121 2-Hexanone						CAS #: 591-78-6			
19.416	19.416	(0.934)	58	793615	25.0000	27.569	50.00- 150.00	100.00	
19.416	19.416	(0.934)	43	1310507			114.75- 214.75	165.13	
19.416	19.416	(0.934)	100	176970			0.00- 71.95	22.30	

122 Dibromochloromethane						CAS #: 124-48-1			
19.803	19.803	(0.952)	129	1126515	25.0000	30.497	50.00- 150.00	100.00	
19.803	19.803	(0.952)	127	857120			26.41- 126.41	76.09	

123 1,2-Dibromoethane						CAS #: 106-93-4			
20.079	20.079	(0.965)	107	1058488	25.0000	29.661	50.00- 150.00	100.00	
20.079	20.079	(0.965)	109	982242			43.48- 143.48	92.80	

127 Chlorobenzene						CAS #: 108-90-7			
20.853	20.853	(1.003)	112	1429441	25.0000	28.725	50.00- 150.00	100.00	
20.853	20.853	(1.003)	114	456716			0.00- 83.18	31.95	
20.853	20.853	(1.003)	77	843032			20.20- 120.20	58.98	

128 Ethyl Benzene						CAS #: 100-41-4			
20.936	20.936	(1.007)	106	746430	25.0000	28.997	50.00- 150.00	100.00	
20.936	20.936	(1.007)	91	2313958			265.06- 365.06	310.00	

129 m,p-Xylene						CAS #: 108-38-3			
21.130	21.130	(1.016)	106	938114	25.0000	29.331	50.00- 150.00	100.00	
21.130	21.130	(1.016)	91	1826519			147.41- 247.41	194.70	

130 o-Xylene						CAS #: 95-47-6			
21.849	21.849	(1.051)	106	868697	25.0000	29.477	50.00- 150.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 o-Xylene (continued)									
21.849	21.849	(1.051)	91	1782003			155.82- 255.82	205.14	

131 Styrene CAS #: 100-42-5									
21.876	21.876	(1.052)	104	1490172	25.0000	31.990	50.00- 150.00	100.00	
21.876	21.876	(1.052)	78	734187			9.19- 109.19	49.27	

133 Bromoform CAS #: 75-25-2									
22.291	22.291	(1.072)	173	1008497	25.0000	28.850	50.00- 150.00	100.00	
22.291	22.291	(1.072)	171	512105			0.74- 100.74	50.78	

134 Cumene CAS #: 98-82-8									
22.429	22.429	(1.078)	105	2385218	25.0000	30.820	50.00- 150.00	100.00	
22.429	22.429	(1.078)	120	626586			0.00- 75.99	26.27	
22.429	22.429	(1.078)	51	187659			9.74- 109.74	7.87	

140 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.010	23.010	(1.106)	83	1327737	25.0000	28.312	50.00- 150.00	100.00	
23.010	23.010	(1.106)	85	864174			14.88- 114.88	65.09	

142 Propylbenzene CAS #: 103-65-1									
23.121	23.121	(1.112)	91	2937772	25.0000	28.804	50.00- 150.00	100.00	
23.121	23.121	(1.112)	120	670514			0.00- 72.67	22.82	
23.121	23.121	(1.112)	105	105034			0.00- 53.69	3.58	

145 4-Ethyltoluene CAS #: 622-96-8									
23.287	23.287	(1.120)	105	2510514	25.0000	28.942	50.00- 150.00	100.00	
23.287	23.287	(1.120)	120	769258			0.00- 80.49	30.64	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.397	23.397	(1.125)	105	2085075	25.0000	29.031	50.00- 150.00	100.00	
23.397	23.397	(1.125)	120	1036589			1.60- 101.60	49.71	

150 1,2,4-Trimethylbenzene CAS #: 95-63-6									
24.033	24.033	(1.156)	105	2006013	25.0000	29.283	50.00- 150.00	100.00	
24.033	24.033	(1.156)	120	933491			0.00- 96.88	46.53	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
24.586	24.586	(1.182)	146	1358210	25.0000	28.215	50.00- 150.00	100.00	
24.586	24.586	(1.182)	148	865122			14.03- 114.03	63.70	
24.586	24.586	(1.182)	111	560571			0.00- 91.33	41.27	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
24.724	24.724	(1.189)	146	1385318	25.0000	27.949	50.00- 150.00	100.00	
24.752	24.752	(1.190)	148	889542			15.04- 115.04	64.21	
24.724	24.724	(1.189)	111	557925			0.00- 89.92	40.27	

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

159	alpha-Chlorotoluene					CAS #: 100-44-7			
24.946	24.946	(1.199)	91	2013651	25.0000	28.731	50.00- 150.00	100.00	
24.946	24.946	(1.199)	126	392538			0.00- 70.12	19.49	

161	1,2-Dichlorobenzene					CAS #: 95-50-1			
25.360	25.360	(1.219)	146	1335025	25.0000	27.993	50.00- 150.00	100.00	
25.360	25.360	(1.219)	148	862150			14.55- 114.55	64.58	
25.360	25.360	(1.219)	111	582972			0.00- 93.18	43.67	

165	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
28.153	28.153	(1.354)	180	1129157	25.0000	24.754	50.00- 150.00	100.00	
28.153	28.153	(1.354)	182	1078030			44.49- 144.49	95.47	

166	Hexachlorobutadiene					CAS #: 87-68-3			
28.319	28.319	(1.362)	225	817762	25.0000	24.521	50.00- 150.00	100.00	
28.319	28.319	(1.362)	223	520302			14.10- 114.10	63.63	

29	Isopentane					CAS #: 78-78-4			
8.245	8.245	(0.595)	43	631978	25.0000	28.020	50.00- 150.00	100.00	
8.245	8.245	(0.595)	57	475192			26.21- 126.21	75.19	

19	Butane					CAS #: 106-97-8			
6.808	6.808	(0.491)	58	79028	25.0000	28.310	50.00- 150.00	100.00	
6.808	6.808	(0.491)	43	568956			668.04- 768.04	719.94	

102	Methyl Cyclohexane					CAS #: 108-87-2			
16.347	16.347	(1.180)	83	849696	25.0000	26.647	50.00- 150.00	100.00	
16.347	16.347	(1.180)	98	382502			0.00- 92.45	45.02	
16.347	16.347	(1.180)	55	585600			18.10- 118.10	68.92	

167	Naphthalene					CAS #: 91-20-3			
28.678	28.678	(1.379)	128	1596060	25.0000	24.325	50.00- 150.00	100.00	
28.678	28.678	(1.379)	127	196302			0.00- 62.43	12.30	

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 23-NOV-2007

Lab File ID: t112105.d

Calibration Time: 09:32

Lab Smp Id: ical

Client Smp ID: Level 4

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: dm

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv-25ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	364898	218939	510857	307764	-15.66
97 1,4-Difluorobenze	1716816	1030090	2403542	1370043	-20.20
126 Chlorobenzene-d5	1199182	719509	1678855	940060	-21.61

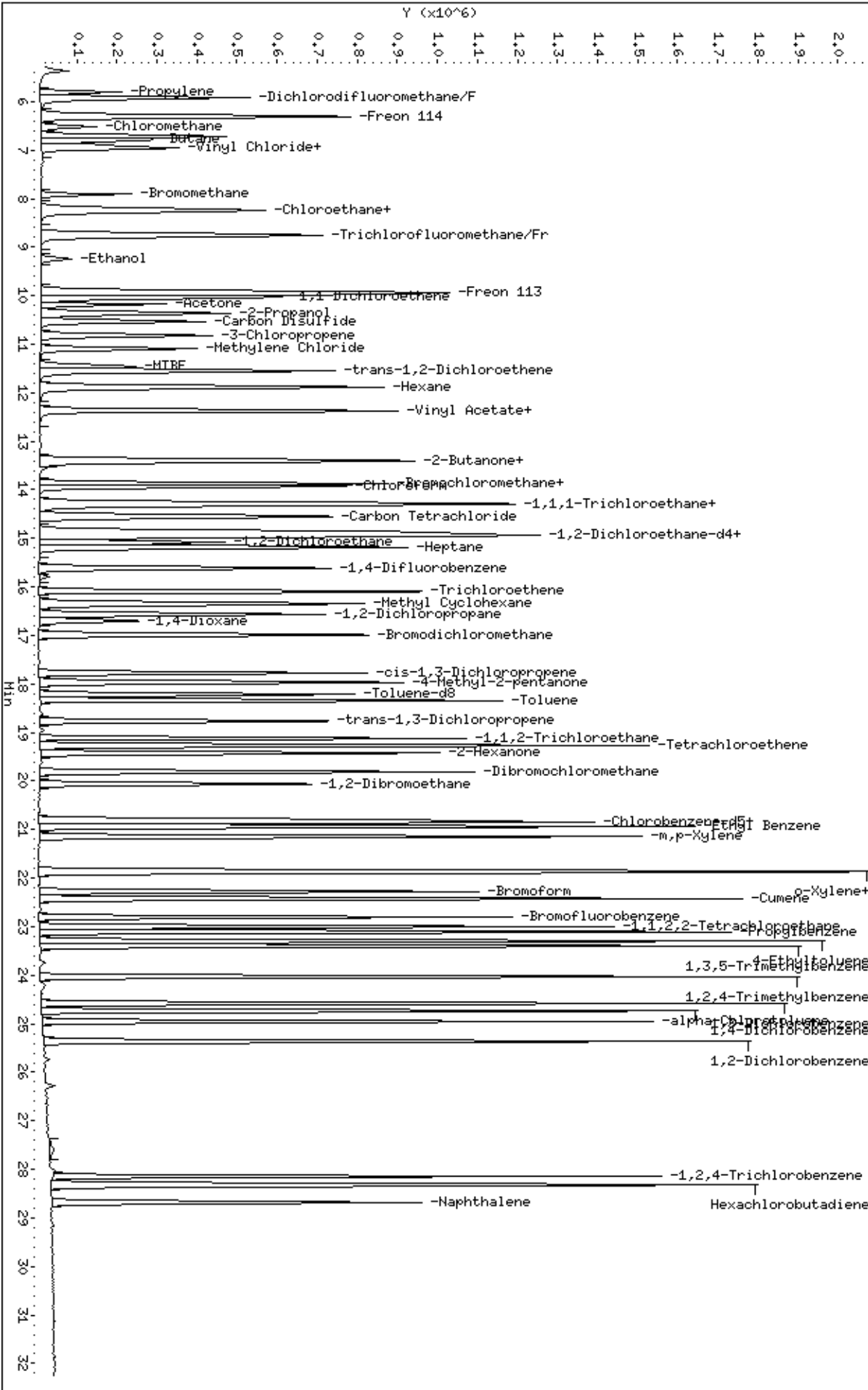
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.86	-0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.



Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112603.d
 Lab Smp Id: ical level 5
 Inj Date : 26-NOV-2007 10:49
 Operator : ea Inst ID: msdt.i
 Smp Info : 50ml #1487-402
 Misc Info : 200ppbv -> 50ppbv
 Comment :
 Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Meth Date : 27-Nov-2007 14:00 lover Quant Type: ISTD
 Cal Date : 26-NOV-2007 10:49 Cal File: t112603.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sp22b.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.865	13.865	(1.000)	130	301939	25.0000		80.00- 120.00	100.00	
13.865	13.865	(1.000)	128	227251			25.26- 125.26	75.26	
13.865	13.865	(1.000)	49	328319			58.74- 158.74	108.74	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.607	15.607	(1.000)	114	1427711	25.0000		80.00- 120.00	100.00	
15.607	15.607	(1.000)	88	225620			0.00- 65.80	15.80	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.805	20.805	(1.000)	117	1047767	25.0000		80.00- 120.00	100.00	
20.805	20.805	(1.000)	82	572517			4.93- 104.93	54.64	

5 Freon 143a CAS #: 420-46-2									
5.534	5.534	(0.399)	69	970137	50.0000	49.958	80.00- 120.00	100.00	

6 Freon142b CAS #: 75-68-3									
6.435	6.435	(0.464)	65	1539948	50.0000	53.363	80.00- 120.00	100.00	
6.435	6.435	(0.464)	45	299709			0.00- 69.76	19.46	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
9 Freon 13						CAS #: 75-72-9			
5.394	5.394	(0.389)	69	1536694	50.0000	58.354	80.00- 120.00	100.00	
5.394	5.394	(0.389)	85	485823			0.00- 82.40	31.61	
5.394	5.394	(0.389)	87	160398			0.00- 60.56	10.44	

13 Freon 134a						CAS #: 811-97-2			
5.675	5.675	(0.409)	83	704170	50.0000	51.527	80.00- 120.00	100.00	
5.675	5.675	(0.409)	69	571710			31.14- 131.14	81.19	

15 Freon 152a						CAS #: 75-37-6			
5.844	5.844	(0.422)	65	364815	50.0000	51.582	80.00- 120.00	100.00	
5.844	5.844	(0.422)	51	617020			117.84- 217.84	169.13	
5.844	5.844	(0.422)	47	142188			0.00- 88.39	38.98	

17 Freon 22						CAS #: 75-45-6			
6.013	6.013	(0.434)	67	185884	50.0000	51.485	80.00- 120.00	100.00	
5.985	5.985	(0.432)	51	930890			439.12- 539.12	500.79	
6.013	6.013	(0.434)	85	17226			0.00- 91.16	9.27	

26 Methanol						CAS #: 67-56-1			
7.562	7.562	(0.545)	31	880334	300.000	283.66	80.00- 120.00	100.00	
7.562	7.562	(0.545)	32	686349			27.96- 127.96	77.96	

34 Dichlorofluoromethane/Fr21						CAS #: 75-43-4			
8.745	8.745	(0.631)	67	1270200	50.0000	52.528	80.00- 120.00	100.00	
8.745	8.745	(0.631)	69	418270			0.00- 82.06	32.93	
8.745	8.745	(0.631)	35	61603			0.00- 54.92	4.85	

40 Freon123a						CAS #: 354-23-4			
9.579	9.579	(0.691)	67	1327213	50.0000	56.049	80.00- 120.00	100.00	
9.579	9.579	(0.691)	117	1048353			30.97- 130.97	78.99	

41 Freon123						CAS #: 306-83-2			
9.718	9.718	(0.701)	83	1800972	50.0000	54.930	80.00- 120.00	100.00	
9.718	9.718	(0.701)	133	368793			0.00- 70.26	20.48	
9.718	9.718	(0.701)	85	1220714			17.95- 117.95	67.78	

57 tert-Butyl-Alcohol						CAS #: 75-65-0			
11.155	11.155	(0.805)	59	734039	50.0000	45.897	80.00- 120.00	100.00	
11.155	11.155	(0.805)	41	158689			0.00- 78.87	21.62	
11.155	11.155	(0.805)	57	73344			0.00- 61.35	9.99	

68 Isopropyl ether						CAS #: 108-20-3			
12.289	12.289	(0.886)	45	2768086	50.0000	55.828	80.00- 120.00	100.00	
12.289	12.289	(0.886)	87	910274			0.00- 84.51	32.88	
12.289	12.289	(0.886)	59	340233			0.00- 62.64	12.29	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
71 1-Propanol										
						CAS #:	71-23-8			
12.400	12.400	(0.894)	42	142090	50.0000	54.459	80.00- 120.00	100.00(H)		
12.400	12.400	(0.894)	59	207169			75.45- 175.45	145.80		
12.400	12.400	(0.894)	41	121148			158.05- 258.05	85.26		

73 t-Butylethyl Ether										
						CAS #:	637-92-3			
12.925	12.925	(0.932)	59	1247549	50.0000	51.771	80.00- 120.00	100.00		
12.925	12.925	(0.932)	87	573435			0.00- 95.70	45.96		
12.925	12.925	(0.932)	41	221058			0.00- 69.82	17.72		

77 Ethyl Acetate										
						CAS #:	141-78-6			
13.367	13.367	(0.964)	45	296370	50.0000	56.715	80.00- 120.00	100.00		
13.395	13.395	(0.966)	61	340888			63.70- 163.70	115.02		
13.367	13.367	(0.964)	43	2087536			641.02- 741.02	704.37		

99 Isobutanol										
						CAS #:	78-83-1			
14.612	14.612	(0.936)	59	20336	50.0000	57.476	80.00- 120.00	100.00		
14.612	14.612	(0.936)	41	431442			2254.31-2354.31	2121.57		
14.612	14.612	(0.936)	43	556712			2684.91-2784.91	2737.57		

92 tert-amyl-Methyl Ether										
						CAS #:	994-05-8			
14.999	14.999	(1.082)	73	1470603	50.0000	51.579	80.00- 120.00	100.00		
14.999	14.999	(1.082)	87	370638			0.00- 75.09	25.20		
14.999	14.999	(1.082)	55	350216			0.00- 74.77	23.81		

96 2-Heptanone										
						CAS #:	110-43-0			
21.966	21.966	(1.584)	58	1218125	50.0000	60.732	80.00- 120.00	100.00		
21.966	21.966	(1.584)	43	1667188			85.60- 185.60	136.87		

98 1-Butanol										
						CAS #:	71-36-3			
15.773	15.773	(1.011)	56	522460	50.0000	71.810	80.00- 120.00	100.00		
15.773	15.773	(1.011)	41	335388			17.89- 117.89	64.19		
15.773	15.773	(1.011)	43	257584			0.00- 99.85	49.30		

119 Butyl Acetate										
						CAS #:	123-86-4			
19.533	19.533	(1.252)	56	833903	50.0000	56.451	80.00- 120.00	100.00		
19.533	19.533	(1.252)	73	355029			0.00- 92.57	42.57		
19.533	19.533	(1.252)	43	1791673			164.85- 264.85	214.85		

135 Cyclohexanone										
						CAS #:	108-94-1			
22.740	22.740	(1.093)	55	808609	50.0000	57.858	80.00- 120.00	100.00		
22.740	22.740	(1.093)	98	460924			6.71- 106.71	57.00		
22.740	22.740	(1.093)	42	504515			11.68- 111.68	62.39		

146 Diisobutyl Ketone										
						CAS #:	108-83-8			
23.570	23.570	(1.133)	57	2107113	50.0000	61.109	80.00- 120.00	100.00		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
146 Diisobutyl Ketone (continued)									
23.570	23.570	(1.133)	85	2141357			51.63- 151.63	101.63	
0.000	1.000	(0.000)	0	0			0.00- 50.00	0.00	

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msdt.i
Lab File ID: t112603.d
Lab Smp Id: ical level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: eaCalibration Date: 26-NOV-2007
Calibration Time: 10:49Level: LOW
Sample Type: AIR

Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m

Misc Info: 200ppbv -> 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	301939	181163	422715	301939	0.00
97 1,4-Difluorobenze	1427711	856627	1998795	1427711	0.00
126 Chlorobenzene-d5	1047767	628660	1466874	1047767	0.00

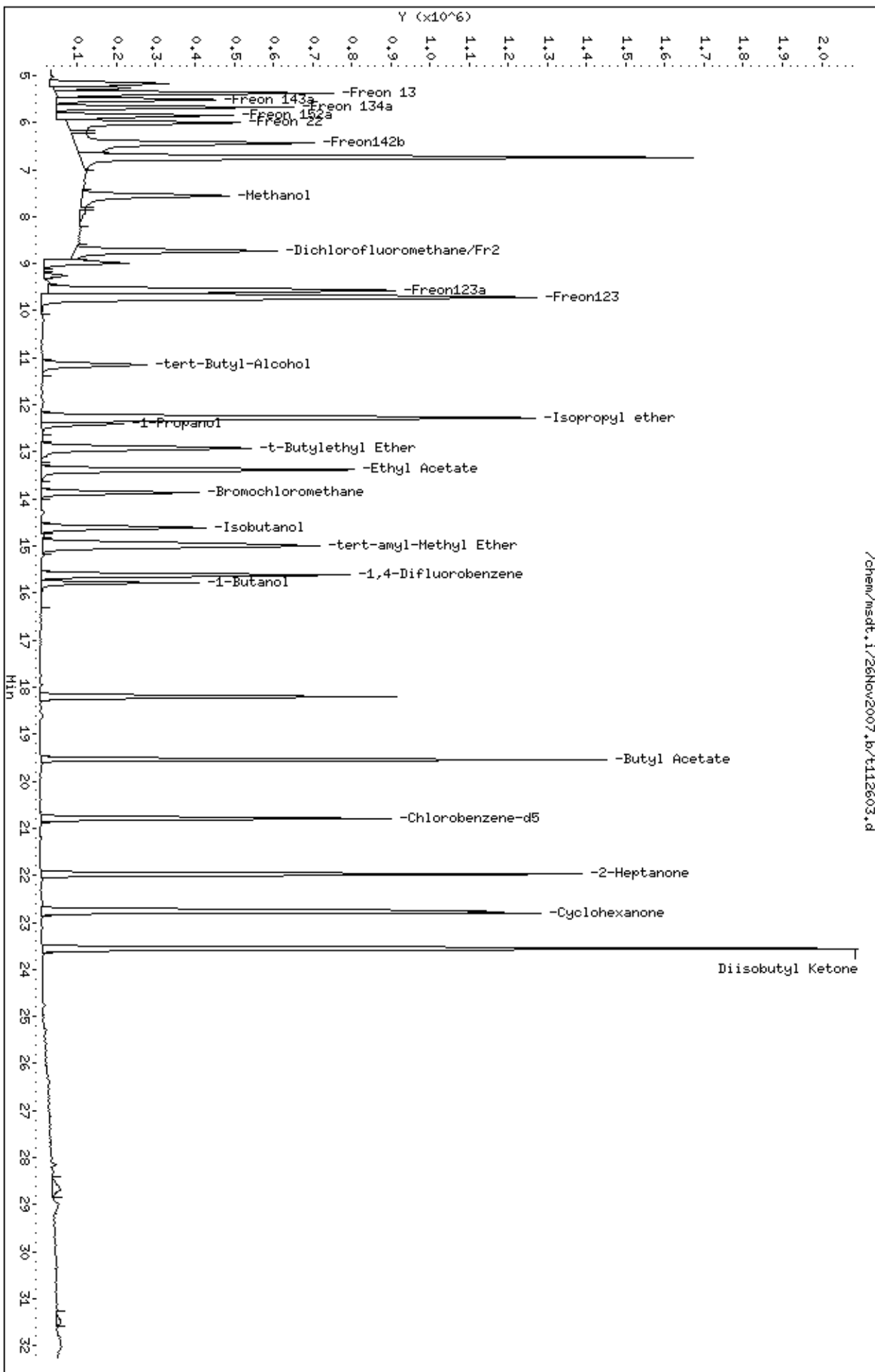
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.80	0.00

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: 26-Nov-2007 15:03

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112106.d
 Lab Smp Id: ical Client Smp ID: Level 5
 Inj Date : 21-NOV-2007 17:45
 Operator : dm Inst ID: msdt.i
 Smp Info : 50ml #1576-92
 Misc Info : 200ppbv-50ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
 Cal Date : 21-NOV-2007 17:45 Cal File: t112106.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.886	13.886	(1.000)	130	306974	25.0000		80.00- 120.00	100.00	
13.886	13.886	(1.000)	128	231444			25.40- 125.40	75.40	
13.858	13.858	(1.000)	49	501563			113.39- 213.39	163.39	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.628	(1.000)	114	1370844	25.0000		80.00- 120.00	100.00	
15.628	15.628	(1.000)	88	219266			0.00- 65.99	15.99	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	968009	25.0000		80.00- 120.00	100.00	
20.798	20.798	(1.000)	82	548507			5.79- 105.79	56.66	

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.936	(1.076)	65	482515	25.0000	24.384	80.00- 120.00	100.00	
14.936	14.936	(1.076)	67	283002			5.03- 105.03	58.65	

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199	(1.165)	98	1136245	25.0000	24.486	80.00- 120.00	100.00	
18.199	18.199	(1.165)	70	127751			0.00- 61.02	11.24	

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

\$ 113 Toluene-d8 (continued)										
18.199	18.199	(1.165)	100	801934			19.45- 119.45	70.58		

\$ 137 Bromofluorobenzene										
						CAS #:	460-00-4			
22.789	22.789	(1.096)	174	614051	25.0000	25.252	80.00- 120.00	100.00		
22.789	22.789	(1.096)	95	779691			76.97- 176.97	126.97		
22.789	22.789	(1.096)	176	598873			47.53- 147.53	97.53		

11 Propylene										
						CAS #:	115-07-1			
5.840	5.840	(0.421)	41	385861	50.0000	47.175	80.00- 120.00	100.00		
5.840	5.840	(0.421)	42	264082			17.24- 117.24	68.44		
5.840	5.840	(0.421)	39	295849			27.83- 127.83	76.67		

12 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
5.950	5.950	(0.429)	85	2194110	50.0000	48.675	80.00- 120.00	100.00		
5.950	5.950	(0.429)	87	698953			0.00- 82.07	31.86		

16 Freon 114										
						CAS #:	76-14-2			
6.337	6.337	(0.456)	135	1415131	50.0000	48.409	80.00- 120.00	100.00		
6.337	6.337	(0.456)	137	444794			0.00- 81.55	31.43		

18 Chloromethane										
						CAS #:	74-87-3			
6.559	6.559	(0.472)	50	488474	50.0000	46.970	80.00- 120.00	100.00		
6.559	6.559	(0.472)	52	162671			0.00- 84.03	33.30		

20 Vinyl Chloride										
						CAS #:	75-01-4			
6.918	6.918	(0.498)	62	721766	50.0000	50.738	80.00- 120.00	100.00		
6.918	6.918	(0.498)	64	232075			0.00- 93.71	32.15		

22 1,3-Butadiene										
						CAS #:	106-99-0			
6.973	6.973	(0.502)	54	596404	50.0000	51.496	80.00- 120.00	100.00		
6.973	6.973	(0.502)	39	563277			54.52- 154.52	94.45		

25 Bromomethane										
						CAS #:	74-83-9			
7.941	7.941	(0.572)	94	668207	50.0000	51.871	80.00- 120.00	100.00		
7.941	7.941	(0.572)	96	616900			42.32- 142.32	92.32		

27 Chloroethane										
						CAS #:	75-00-3			
8.218	8.218	(0.592)	64	358418	50.0000	51.394	80.00- 120.00	100.00		
8.218	8.218	(0.592)	49	91457			0.00- 74.88	25.52		
8.218	8.218	(0.592)	66	115803			0.00- 80.84	32.31		

31 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
8.771	8.771	(0.632)	101	3019902	50.0000	51.619	80.00- 120.00	100.00		
8.771	8.771	(0.632)	103	1957279			14.81- 114.81	64.81		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Ethanol						CAS #: 64-17-5			
9.241	9.241	(0.665)	45	335731	50.0000	50.354	80.00- 120.00	100.00	
9.241	9.241	(0.665)	43	74658			0.00- 72.67	22.24	
9.241	9.241	(0.665)	46	125664			0.00- 86.29	37.43	

42 Freon 113						CAS #: 76-13-1			
9.960	9.960	(0.717)	151	1835401	50.0000	52.068	80.00- 120.00	100.00	
9.960	9.960	(0.717)	153	1168018			13.64- 113.64	63.64	
9.960	9.960	(0.717)	101	2356538			78.39- 178.39	128.39	

43 1,1-Dichloroethene						CAS #: 75-35-4			
10.042	10.042	(0.723)	61	1418340	50.0000	53.138	80.00- 120.00	100.00	
10.042	10.042	(0.723)	96	887168			12.55- 112.55	62.55	
10.042	10.042	(0.723)	98	579752			0.00- 90.88	40.88	

45 Acetone						CAS #: 67-64-1			
10.181	10.181	(0.733)	58	478069	50.0000	49.090	80.00- 120.00	100.00	
10.181	10.181	(0.733)	43	1469854			259.05- 359.05	307.46	

46 2-Propanol						CAS #: 67-63-0			
10.374	10.374	(0.747)	45	2506615	50.0000	51.212	80.00- 120.00	100.00	
10.374	10.374	(0.747)	43	549569			0.00- 73.80	21.92	
10.374	10.374	(0.747)	59	106668			0.00- 54.08	4.26	

47 Carbon Disulfide						CAS #: 75-15-0			
10.540	10.540	(0.759)	76	2350858	50.0000	51.432	80.00- 120.00	100.00	

51 3-Chloropropene						CAS #: 107-05-1			
10.817	10.817	(0.779)	76	495181	50.0000	52.264	80.00- 120.00	100.00	
10.817	10.817	(0.779)	41	1099560			185.00- 285.00	222.05	

54 Methylene Chloride						CAS #: 75-09-2			
11.121	11.121	(0.801)	49	781937	50.0000	48.692	80.00- 120.00	100.00	
11.121	11.121	(0.801)	84	728967			43.23- 143.23	93.23	
11.121	11.121	(0.801)	51	247001			0.00- 81.08	31.59	

60 MTBE						CAS #: 1634-04-4			
11.453	11.453	(0.825)	73	1158187	50.0000	46.102	80.00- 120.00	100.00	
11.453	11.453	(0.825)	57	223270			0.00- 69.28	19.28	
11.453	11.453	(0.825)	41	215770			0.00- 69.31	18.63	

61 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.563	11.563	(0.833)	96	1154247	50.0000	52.883	80.00- 120.00	100.00	
11.536	11.536	(0.831)	61	1566623			85.73- 185.73	135.73	
11.563	11.563	(0.833)	98	730817			11.49- 111.49	63.32	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
65 Hexane						CAS #: 110-54-3			
11.895	11.895	(0.857)	57	1877074	50.0000	52.431	80.00- 120.00	100.00	
11.895	11.895	(0.857)	43	1073680			6.67- 106.67	57.20	
11.895	11.895	(0.857)	86	335031			0.00- 66.53	17.85	

69 Vinyl Acetate						CAS #: 108-05-4			
12.365	12.365	(0.890)	86	296951	50.0000	50.688	80.00- 120.00	100.00	
12.365	12.365	(0.890)	43	2637395			869.92- 969.92	888.16	

70 1,1-Dichloroethane						CAS #: 75-34-3			
12.365	12.365	(0.890)	63	1962874	50.0000	52.921	80.00- 120.00	100.00	
12.365	12.365	(0.890)	65	629061			0.00- 82.05	32.05	

75 2-Butanone						CAS #: 78-93-3			
13.388	13.388	(0.964)	72	644762	50.0000	53.382	80.00- 120.00	100.00	
13.388	13.388	(0.964)	43	2575109			349.39- 449.39	399.39	
13.388	13.388	(0.964)	57	184834			0.00- 79.31	28.67	

76 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.416	13.416	(0.966)	61	1408111	50.0000	52.966	80.00- 120.00	100.00	
13.416	13.416	(0.966)	96	1089296			27.36- 127.36	77.36	
13.416	13.416	(0.966)	98	702357			0.00- 99.88	49.88	

80 Tetrahydrofuran						CAS #: 109-99-9			
13.858	13.858	(0.998)	42	1048548	50.0000	52.359	80.00- 120.00	100.00	
13.858	13.858	(0.998)	71	554252			2.86- 102.86	52.86	
13.858	13.858	(0.998)	72	591011			4.67- 104.67	56.36	

82 Chloroform						CAS #: 67-66-3			
13.941	13.941	(1.004)	83	2292374	50.0000	55.433	80.00- 120.00	100.00	
13.941	13.941	(1.004)	85	1499462			15.41- 115.41	65.41	

83 1,1,1-Trichloroethane						CAS #: 71-55-6			
14.273	14.273	(1.028)	97	2229030	50.0000	50.894	80.00- 120.00	100.00	
14.273	14.273	(1.028)	99	1442792			14.73- 114.73	64.73	

85 Cyclohexane						CAS #: 110-82-7			
14.300	14.300	(1.030)	84	1286814	50.0000	52.384	80.00- 120.00	100.00	
14.300	14.300	(1.030)	56	1261596			48.04- 148.04	98.04	
14.300	14.300	(1.030)	41	648237			0.38- 100.38	50.38	

87 Carbon Tetrachloride						CAS #: 56-23-5			
14.549	14.549	(1.048)	119	2137056	50.0000	51.987	80.00- 120.00	100.00	
14.549	14.549	(1.048)	117	2261592			55.83- 155.83	105.83	

89 2,2,4-Trimethylpentane						CAS #: 540-84-1			
14.881	14.881	(1.072)	57	4394428	50.0000	50.371	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
89 2,2,4-Trimethylpentane (continued)									
14.881	14.881	(1.072)	56	1414423			0.00- 82.34	32.19	
14.881	14.881	(1.072)	41	1079114			0.00- 76.30	24.56	

91 Benzene CAS #: 71-43-2									
14.964	14.964	(0.958)	78	3145178	50.0000	53.778	80.00- 120.00	100.00	
14.964	14.964	(0.958)	77	707221			0.00- 72.49	22.49	

93 1,2-Dichloroethane CAS #: 107-06-2									
15.075	15.075	(0.965)	62	1462534	50.0000	53.189	80.00- 120.00	100.00	
15.075	15.075	(0.965)	64	476594			0.00- 84.21	32.59	

94 Heptane CAS #: 142-82-5									
15.185	15.185	(0.972)	71	1154348	50.0000	54.703	80.00- 120.00	100.00	
15.185	15.185	(0.972)	43	1536175			86.68- 186.68	133.08	
15.185	15.185	(0.972)	57	938839			32.20- 132.20	81.33	

101 Trichloroethene CAS #: 79-01-6									
16.070	16.070	(1.028)	95	1421786	50.0000	53.251	80.00- 120.00	100.00	
16.098	16.098	(1.030)	130	1349496			44.92- 144.92	94.92	
16.070	16.070	(1.028)	97	913111			14.22- 114.22	64.22	

104 1,2-Dichloropropane CAS #: 78-87-5									
16.568	16.568	(1.060)	63	1025638	50.0000	51.287	80.00- 120.00	100.00	
16.568	16.568	(1.060)	62	733918			21.56- 121.56	71.56	
16.568	16.568	(1.060)	41	530420			1.72- 101.72	51.72	

106 1,4-Dioxane CAS #: 123-91-1									
16.706	16.706	(1.069)	88	918112	50.0000	52.932	80.00- 120.00	100.00	
16.678	16.678	(1.067)	58	509400			5.48- 105.48	55.48	
16.678	16.678	(1.067)	57	174053			0.00- 69.74	18.96	

107 Bromodichloromethane CAS #: 75-27-4									
17.010	17.010	(1.088)	83	2330204	50.0000	53.489	80.00- 120.00	100.00	
17.010	17.010	(1.088)	85	1510910			14.84- 114.84	64.84	

110 cis-1,3-Dichloropropene CAS #: 10061-01-5									
17.784	17.784	(1.138)	75	1741298	50.0000	54.656	80.00- 120.00	100.00	
17.784	17.784	(1.138)	77	559421			0.00- 82.13	32.13	
17.784	17.784	(1.138)	39	703234			0.00- 90.39	40.39	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.978	17.978	(1.150)	58	1119007	50.0000	56.132	80.00- 120.00	100.00	
17.978	17.978	(1.150)	43	2471601			169.12- 269.12	220.87	
17.978	17.978	(1.150)	85	573438			0.58- 100.58	51.25	

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

114 Toluene						CAS #: 108-88-3			
18.337	18.337	(1.173)	91	3411418	50.0000	52.572	80.00-	120.00	100.00
18.337	18.337	(1.173)	92	2125137			12.29-	112.29	62.29

116 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
18.752	18.752	(0.902)	75	1838516	50.0000	56.339	80.00-	120.00	100.00
18.780	18.780	(0.903)	77	582018			0.00-	81.66	31.66
18.752	18.752	(0.902)	39	696200			0.00-	87.87	37.87

117 1,1,2-Trichloroethane						CAS #: 79-00-5			
19.111	19.111	(0.919)	97	1263176	50.0000	55.262	80.00-	120.00	100.00
19.111	19.111	(0.919)	99	804390			13.68-	113.68	63.68
19.111	19.111	(0.919)	83	1060442			33.95-	133.95	83.95

120 Tetrachloroethene						CAS #: 127-18-4			
19.277	19.277	(0.927)	166	1687491	50.0000	55.208	80.00-	120.00	100.00
19.277	19.277	(0.927)	129	1182528			20.08-	120.08	70.08
19.277	19.277	(0.927)	131	1122308			16.51-	116.51	66.51

121 2-Hexanone						CAS #: 591-78-6			
19.416	19.416	(0.934)	58	1610205	50.0000	54.322	80.00-	120.00	100.00
19.416	19.416	(0.934)	43	2608372			111.99-	211.99	161.99
19.416	19.416	(0.934)	100	357315			0.00-	71.95	22.19

122 Dibromochloromethane						CAS #: 124-48-1			
19.803	19.803	(0.952)	129	2135886	50.0000	56.153	80.00-	120.00	100.00
19.803	19.803	(0.952)	127	1647526			26.41-	126.41	77.14

123 1,2-Dibromoethane						CAS #: 106-93-4			
20.052	20.052	(0.964)	107	2041878	50.0000	55.565	80.00-	120.00	100.00
20.079	20.079	(0.965)	109	1907903			43.44-	143.44	93.44

127 Chlorobenzene						CAS #: 108-90-7			
20.853	20.853	(1.003)	112	2794094	50.0000	54.528	80.00-	120.00	100.00
20.853	20.853	(1.003)	114	880145			0.00-	81.50	31.50
20.853	20.853	(1.003)	77	1644261			8.85-	108.85	58.85

128 Ethyl Benzene						CAS #: 100-41-4			
20.936	20.936	(1.007)	106	1481268	50.0000	55.882	80.00-	120.00	100.00
20.936	20.936	(1.007)	91	4576538			265.06-	365.06	308.96

129 m,p-Xylene						CAS #: 108-38-3			
21.130	21.130	(1.016)	106	1854655	50.0000	56.314	80.00-	120.00	100.00
21.130	21.130	(1.016)	91	3625989			147.41-	247.41	195.51

130 o-Xylene						CAS #: 95-47-6			
21.849	21.849	(1.051)	106	1714209	50.0000	56.488	80.00-	120.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 o-Xylene (continued)									
21.849	21.849	(1.051)	91	3512526			154.91- 254.91	204.91	

131 Styrene CAS #: 100-42-5									
21.876	21.876	(1.052)	104	3011030	50.0000	62.773	80.00- 120.00	100.00	
21.876	21.876	(1.052)	78	1464593			0.00- 98.64	48.64	

133 Bromoform CAS #: 75-25-2									
22.291	22.291	(1.072)	173	2024973	50.0000	56.256	80.00- 120.00	100.00	
22.291	22.291	(1.072)	171	1051180			1.91- 101.91	51.91	

134 Cumene CAS #: 98-82-8									
22.429	22.429	(1.078)	105	4717551	50.0000	59.198	80.00- 120.00	100.00	
22.429	22.429	(1.078)	120	1248725			0.00- 75.99	26.47	
22.429	22.429	(1.078)	51	359936			9.74- 109.74	7.63	

140 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.010	23.010	(1.106)	83	2643415	50.0000	54.739	80.00- 120.00	100.00	
23.010	23.010	(1.106)	85	1708300			14.62- 114.62	64.62	

142 Propylbenzene CAS #: 103-65-1									
23.121	23.121	(1.112)	91	5894083	50.0000	56.121	80.00- 120.00	100.00	
23.121	23.121	(1.112)	120	1314078			0.00- 72.67	22.29	
23.121	23.121	(1.112)	105	217164			0.00- 53.69	3.68	

145 4-Ethyltoluene CAS #: 622-96-8									
23.287	23.287	(1.120)	105	5001374	50.0000	55.993	80.00- 120.00	100.00	
23.287	23.287	(1.120)	120	1515133			0.00- 80.29	30.29	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.397	23.397	(1.125)	105	4146796	50.0000	56.070	80.00- 120.00	100.00	
23.397	23.397	(1.125)	120	2074119			1.60- 101.60	50.02	

150 1,2,4-Trimethylbenzene CAS #: 95-63-6									
24.033	24.033	(1.156)	105	4024803	50.0000	57.057	80.00- 120.00	100.00	
24.033	24.033	(1.156)	120	1884630			0.00- 96.88	46.83	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
24.586	24.586	(1.182)	146	2692128	50.0000	54.311	80.00- 120.00	100.00	
24.586	24.586	(1.182)	148	1724779			14.03- 114.03	64.07	
24.586	24.586	(1.182)	111	1120893			0.00- 91.33	41.64	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
24.724	24.724	(1.189)	146	2779624	50.0000	54.460	80.00- 120.00	100.00	
24.724	24.724	(1.189)	148	1761078			15.04- 115.04	63.36	
24.724	24.724	(1.189)	111	1107951			0.00- 89.92	39.86	

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

159	alpha-Chlorotoluene					CAS #: 100-44-7			
24.946	24.946	(1.199)	91	4094995	50.0000	56.740	80.00- 120.00	100.00	
24.946	24.946	(1.199)	126	806210			0.00- 70.12	19.69	

161	1,2-Dichlorobenzene					CAS #: 95-50-1			
25.360	25.360	(1.219)	146	2689537	50.0000	54.767	80.00- 120.00	100.00	
25.360	25.360	(1.219)	148	1714158			13.73- 113.73	63.73	
25.360	25.360	(1.219)	111	1162894			0.00- 93.24	43.24	

165	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
28.153	28.153	(1.354)	180	2573571	50.0000	54.792	80.00- 120.00	100.00	
28.153	28.153	(1.354)	182	2431397			44.48- 144.48	94.48	

166	Hexachlorobutadiene					CAS #: 87-68-3			
28.319	28.319	(1.362)	225	1788302	50.0000	52.075	80.00- 120.00	100.00	
28.319	28.319	(1.362)	223	1129433			14.10- 114.10	63.16	

29	Isopentane					CAS #: 78-78-4			
8.273	8.273	(0.596)	43	1147470	50.0000	51.006	80.00- 120.00	100.00	
8.273	8.273	(0.596)	57	862339			26.21- 126.21	75.15	

19	Butane					CAS #: 106-97-8			
6.808	6.808	(0.490)	58	137683	50.0000	49.449	80.00- 120.00	100.00	
6.808	6.808	(0.490)	43	977603			668.04- 768.04	710.04	

102	Methyl Cyclohexane					CAS #: 108-87-2			
16.347	16.347	(1.177)	83	1650527	50.0000	51.895	80.00- 120.00	100.00	
16.347	16.347	(1.177)	98	746918			0.00- 92.45	45.25	
16.347	16.347	(1.177)	55	1108676			18.10- 118.10	67.17	

167	Naphthalene					CAS #: 91-20-3			
28.678	28.678	(1.379)	128	3846111	50.0000	56.924	80.00- 120.00	100.00	
28.678	28.678	(1.379)	127	465303			0.00- 62.43	12.10	

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 21-NOV-2007

Lab File ID: t112106.d

Calibration Time: 17:45

Lab Smp Id: ical

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: dm

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv-50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	306974	184184	429764	306974	0.00
97 1,4-Difluorobenze	1370844	822506	1919182	1370844	0.00
126 Chlorobenzene-d5	968009	580805	1355213	968009	0.00

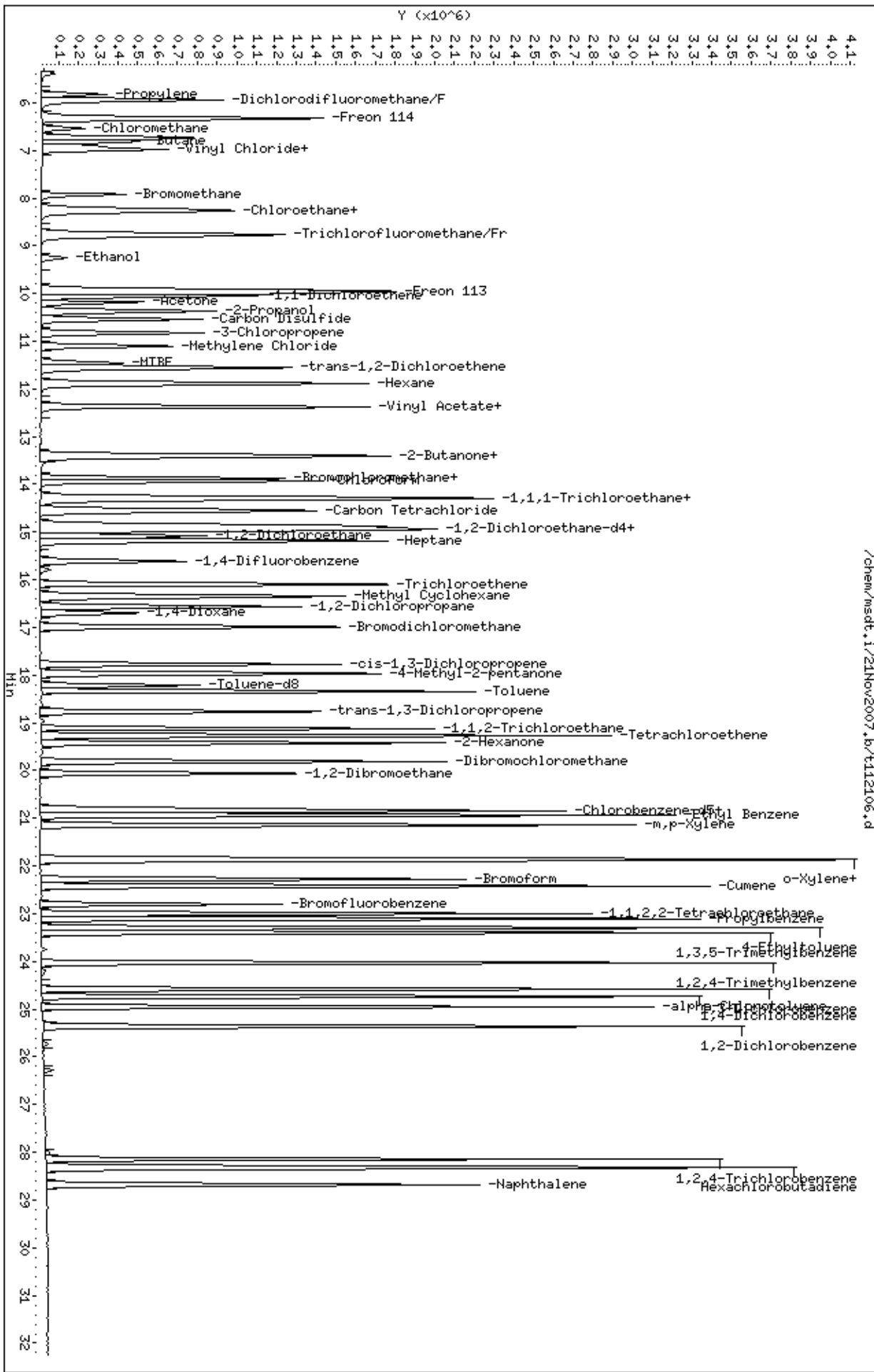
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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: 26-Nov-2007 15:03

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112107.d
 Lab Smp Id: ical Client Smp ID: Level 6
 Inj Date : 21-NOV-2007 18:24
 Operator : dm Inst ID: msdt.i
 Smp Info : 100ml #1576-92
 Misc Info : 200ppbv-100ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
 Cal Date : 21-NOV-2007 18:24 Cal File: t112107.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 81 Bromochloromethane CAS #: 74-97-5									
13.886	13.886	(1.000)	130	317570	25.0000			50.00- 150.00	100.00
13.886	13.886	(1.000)	128	244573				26.38- 126.38	77.01
13.886	13.886	(1.000)	49	671350				91.95- 191.95	211.40

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.628	(1.000)	114	1449348	25.0000			50.00- 150.00	100.00
15.628	15.628	(1.000)	88	232923				0.00- 65.95	16.07

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	1025130	25.0000			50.00- 150.00	100.00
20.798	20.798	(1.000)	82	571651				5.79- 105.79	55.76

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.936	(1.076)	65	526143	25.0000	25.702		50.00- 150.00	100.00
14.936	14.936	(1.076)	67	335416				5.03- 105.03	63.75

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199	(1.165)	98	1193506	25.0000	24.327		50.00- 150.00	100.00
18.199	18.199	(1.165)	70	130822				0.00- 61.02	10.96

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

\$ 113 Toluene-d8 (continued)										
18.199	18.199	(1.165)	100	832711			19.45- 119.45	69.77		

\$ 137 Bromofluorobenzene										
						CAS #:	460-00-4			
22.789	22.789	(1.096)	174	666776	25.0000	25.893	50.00- 150.00	100.00		
22.789	22.789	(1.096)	95	844819			77.33- 177.33	126.70		
22.789	22.789	(1.096)	176	640372			46.56- 146.56	96.04		

11 Propylene										
						CAS #:	115-07-1			
5.812	5.812	(0.419)	41	758476	100.000	89.637	50.00- 150.00	100.00		
5.812	5.812	(0.419)	42	529301			17.24- 117.24	69.78		
5.812	5.812	(0.419)	39	611315			27.83- 127.83	80.60		

12 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
5.923	5.923	(0.427)	85	4416961	100.000	94.718	50.00- 150.00	100.00		
5.923	5.923	(0.427)	87	1416862			0.00- 82.07	32.08		

16 Freon 114										
						CAS #:	76-14-2			
6.310	6.310	(0.454)	135	2854734	100.000	94.398	50.00- 150.00	100.00		
6.310	6.310	(0.454)	137	913695			0.00- 81.55	32.01		

18 Chloromethane										
						CAS #:	74-87-3			
6.531	6.531	(0.470)	50	984803	100.000	91.535	50.00- 150.00	100.00		
6.531	6.531	(0.470)	52	330325			0.00- 84.03	33.54		

20 Vinyl Chloride										
						CAS #:	75-01-4			
6.890	6.890	(0.496)	62	1467986	100.000	99.752	50.00- 150.00	100.00		
6.890	6.890	(0.496)	64	480189			0.00- 93.71	32.71		

22 1,3-Butadiene										
						CAS #:	106-99-0			
6.973	6.973	(0.502)	54	1143421	100.000	95.433	50.00- 150.00	100.00		
6.973	6.973	(0.502)	39	1036260			54.52- 154.52	90.63		

25 Bromomethane										
						CAS #:	74-83-9			
7.913	7.913	(0.570)	94	1389268	100.000	104.24	50.00- 150.00	100.00		
7.913	7.913	(0.570)	96	1292025			50.48- 150.48	93.00		

27 Chloroethane										
						CAS #:	75-00-3			
8.218	8.218	(0.592)	64	758567	100.000	105.14	50.00- 150.00	100.00		
8.218	8.218	(0.592)	49	188832			0.00- 74.88	24.89		
8.218	8.218	(0.592)	66	248587			0.00- 80.84	32.77		

31 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
8.771	8.771	(0.632)	101	5951538	100.000	98.335	50.00- 150.00	100.00		
8.771	8.771	(0.632)	103	3849306			16.26- 116.26	64.68		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Ethanol						CAS #: 64-17-5			
9.241	9.241	(0.665)	45	624783	100.000	90.580	50.00- 150.00	100.00	
9.241	9.241	(0.665)	43	134222			0.00- 72.67	21.48	
9.241	9.241	(0.665)	46	228119			0.00- 86.29	36.51	

42 Freon 113						CAS #: 76-13-1			
9.959	9.959	(0.717)	151	3762555	100.000	103.18	50.00- 150.00	100.00	
9.959	9.959	(0.717)	153	2413297			15.23- 115.23	64.14	
9.932	9.932	(0.715)	101	4837345			83.14- 183.14	128.57	

43 1,1-Dichloroethene						CAS #: 75-35-4			
10.042	10.042	(0.723)	61	2852377	100.000	103.30	50.00- 150.00	100.00	
10.042	10.042	(0.723)	96	1818784			16.79- 116.79	63.76	
10.042	10.042	(0.723)	98	1174129			0.00- 90.88	41.16	

45 Acetone						CAS #: 67-64-1			
10.181	10.181	(0.733)	58	957492	100.000	95.038	50.00- 150.00	100.00	
10.181	10.181	(0.733)	43	2912564			259.05- 359.05	304.19	

46 2-Propanol						CAS #: 67-63-0			
10.374	10.374	(0.747)	45	5098065	100.000	100.68	50.00- 150.00	100.00	
10.374	10.374	(0.747)	43	1087980			0.00- 73.80	21.34	
10.374	10.374	(0.747)	59	221605			0.00- 54.08	4.35	

47 Carbon Disulfide						CAS #: 75-15-0			
10.540	10.540	(0.759)	76	4876353	100.000	103.12	50.00- 150.00	100.00	

51 3-Chloropropene						CAS #: 107-05-1			
10.817	10.817	(0.779)	76	1024662	100.000	104.54	50.00- 150.00	100.00	
10.817	10.817	(0.779)	41	2224941			185.00- 285.00	217.14	

54 Methylene Chloride						CAS #: 75-09-2			
11.121	11.121	(0.801)	49	1539537	100.000	92.670	50.00- 150.00	100.00	
11.121	11.121	(0.801)	84	1442251			40.01- 140.01	93.68	
11.121	11.121	(0.801)	51	476901			0.00- 81.08	30.98	

60 MTBE						CAS #: 1634-04-4			
11.453	11.453	(0.825)	73	2738499	100.000	105.37	50.00- 150.00	100.00	
11.453	11.453	(0.825)	57	520393			0.00- 69.28	19.00	
11.453	11.453	(0.825)	41	488927			0.00- 69.31	17.85	

61 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.563	11.563	(0.833)	96	2393283	100.000	105.99	50.00- 150.00	100.00	
11.563	11.563	(0.833)	61	3189683			83.34- 183.34	133.28	
11.563	11.563	(0.833)	98	1523969			11.49- 111.49	63.68	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
65 Hexane						CAS #: 110-54-3			
11.895	11.895	(0.857)	57	3845245	100.000	103.82	50.00- 150.00	100.00	
11.895	11.895	(0.857)	43	2175889			6.67- 106.67	56.59	
11.895	11.895	(0.857)	86	694175			0.00- 66.53	18.05	

69 Vinyl Acetate						CAS #: 108-05-4			
12.365	12.365	(0.890)	86	645807	100.000	106.56	50.00- 150.00	100.00	
12.365	12.365	(0.890)	43	5532270			869.92- 969.92	856.64	

70 1,1-Dichloroethane						CAS #: 75-34-3			
12.393	12.393	(0.892)	63	4062951	100.000	105.89	50.00- 150.00	100.00	
12.393	12.393	(0.892)	65	1304759			0.00- 81.73	32.11	

75 2-Butanone						CAS #: 78-93-3			
13.388	13.388	(0.964)	72	1360599	100.000	108.89	50.00- 150.00	100.00	
13.388	13.388	(0.964)	43	5288225			362.73- 462.73	388.67	
13.388	13.388	(0.964)	57	395121			0.00- 79.31	29.04	

76 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.416	13.416	(0.966)	61	2955145	100.000	107.45	50.00- 150.00	100.00	
13.416	13.416	(0.966)	96	2301188			30.20- 130.20	77.87	
13.416	13.416	(0.966)	98	1473937			0.03- 100.03	49.88	

80 Tetrahydrofuran						CAS #: 109-99-9			
13.858	13.858	(0.998)	42	2156079	100.000	104.07	50.00- 150.00	100.00	
13.858	13.858	(0.998)	71	1159695			0.15- 100.15	53.79	
13.858	13.858	(0.998)	72	1242013			4.67- 104.67	57.61	

82 Chloroform						CAS #: 67-66-3			
13.941	13.941	(1.004)	83	4794939	100.000	112.08	50.00- 150.00	100.00	
13.941	13.941	(1.004)	85	3116049			16.84- 116.84	64.99	

83 1,1,1-Trichloroethane						CAS #: 71-55-6			
14.300	14.300	(1.030)	97	4598237	100.000	101.49	50.00- 150.00	100.00	
14.300	14.300	(1.030)	99	2961328			13.29- 113.29	64.40	

85 Cyclohexane						CAS #: 110-82-7			
14.300	14.300	(1.030)	84	2719449	100.000	107.01	50.00- 150.00	100.00	
14.300	14.300	(1.030)	56	2646864			49.76- 149.76	97.33	
14.300	14.300	(1.030)	41	1308553			3.69- 103.69	48.12	

87 Carbon Tetrachloride						CAS #: 56-23-5			
14.549	14.549	(1.048)	119	4371413	100.000	102.79	50.00- 150.00	100.00	
14.549	14.549	(1.048)	117	4625525			54.35- 154.35	105.81	

91 Benzene						CAS #: 71-43-2			
14.964	14.964	(0.958)	78	6492998	100.000	105.01	50.00- 150.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
91 Benzene (continued)									
14.964	14.964	(0.958)	77	1463588			0.00- 72.49	22.54	

89 2,2,4-Trimethylpentane CAS #: 540-84-1									
14.881	14.881	(1.072)	57	8840839	100.000	97.956	50.00- 150.00	100.00	
14.881	14.881	(1.072)	56	2864766			0.00- 82.34	32.40	
14.881	14.881	(1.072)	41	2156711			0.00- 76.30	24.39	

93 1,2-Dichloroethane CAS #: 107-06-2									
15.075	15.075	(0.965)	62	3004435	100.000	103.35	50.00- 150.00	100.00	
15.075	15.075	(0.965)	64	977611			0.00- 84.21	32.54	

94 Heptane CAS #: 142-82-5									
15.185	15.185	(0.972)	71	2347146	100.000	105.20	50.00- 150.00	100.00	
15.185	15.185	(0.972)	43	3042340			86.68- 186.68	129.62	
15.185	15.185	(0.972)	57	1870799			32.20- 132.20	79.71	

101 Trichloroethene CAS #: 79-01-6									
16.098	16.098	(1.030)	95	2912228	100.000	103.16	50.00- 150.00	100.00	
16.098	16.098	(1.030)	130	2736246			47.47- 147.47	93.96	
16.098	16.098	(1.030)	97	1856868			14.52- 114.52	63.76	

104 1,2-Dichloropropane CAS #: 78-87-5									
16.568	16.568	(1.060)	63	2091646	100.000	98.928	50.00- 150.00	100.00	
16.568	16.568	(1.060)	62	1493529			17.52- 117.52	71.40	
16.568	16.568	(1.060)	41	1037307			0.97- 100.97	49.59	

106 1,4-Dioxane CAS #: 123-91-1									
16.706	16.706	(1.069)	88	1831915	100.000	99.895	50.00- 150.00	100.00	
16.706	16.706	(1.069)	58	1013838			6.89- 106.89	55.34	
16.706	16.706	(1.069)	57	349306			0.00- 69.74	19.07	

107 Bromodichloromethane CAS #: 75-27-4									
17.010	17.010	(1.088)	83	4775366	100.000	103.68	50.00- 150.00	100.00	
17.010	17.010	(1.088)	85	3078671			14.67- 114.67	64.47	

110 cis-1,3-Dichloropropene CAS #: 10061-01-5									
17.784	17.784	(1.138)	75	3508657	100.000	104.16	50.00- 150.00	100.00	
17.784	17.784	(1.138)	77	1130281			0.00- 83.04	32.21	
17.784	17.784	(1.138)	39	1402441			0.00- 93.89	39.97	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.978	17.978	(1.150)	58	2289944	100.000	108.65	50.00- 150.00	100.00	
17.978	17.978	(1.150)	43	5014130			169.12- 269.12	218.96	
17.978	17.978	(1.150)	85	1189987			0.58- 100.58	51.97	

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

114 Toluene						CAS #: 108-88-3			
18.337	18.337	(1.173)	91	6913435	100.000	100.77	50.00- 150.00	100.00	
18.337	18.337	(1.173)	92	4242576			11.10- 111.10	61.37	

116 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
18.780	18.780	(0.903)	75	3684793	100.000	106.62	50.00- 150.00	100.00	
18.780	18.780	(0.903)	77	1180933			0.00- 83.38	32.05	
18.780	18.780	(0.903)	39	1372578			0.00- 92.03	37.25	

117 1,1,2-Trichloroethane						CAS #: 79-00-5			
19.111	19.111	(0.919)	97	2519624	100.000	104.09	50.00- 150.00	100.00	
19.111	19.111	(0.919)	99	1590024			14.64- 114.64	63.11	
19.111	19.111	(0.919)	83	2137099			37.04- 137.04	84.82	

120 Tetrachloroethene						CAS #: 127-18-4			
19.277	19.277	(0.927)	166	3355578	100.000	103.66	50.00- 150.00	100.00	
19.277	19.277	(0.927)	129	2350484			21.89- 121.89	70.05	
19.277	19.277	(0.927)	131	2233846			19.59- 119.59	66.57	

121 2-Hexanone						CAS #: 591-78-6			
19.416	19.416	(0.934)	58	3278076	100.000	104.43	50.00- 150.00	100.00	
19.416	19.416	(0.934)	43	5224831			114.75- 214.75	159.39	
19.443	19.443	(0.935)	100	733216			0.00- 71.95	22.37	

122 Dibromochloromethane						CAS #: 124-48-1			
19.803	19.803	(0.952)	129	4279928	100.000	106.25	50.00- 150.00	100.00	
19.803	19.803	(0.952)	127	3294908			26.41- 126.41	76.99	

123 1,2-Dibromoethane						CAS #: 106-93-4			
20.079	20.079	(0.965)	107	4131636	100.000	106.17	50.00- 150.00	100.00	
20.079	20.079	(0.965)	109	3825999			43.48- 143.48	92.60	

127 Chlorobenzene						CAS #: 108-90-7			
20.853	20.853	(1.003)	112	5623967	100.000	103.64	50.00- 150.00	100.00	
20.853	20.853	(1.003)	114	1765473			0.00- 83.18	31.39	
20.853	20.853	(1.003)	77	3293263			20.20- 120.20	58.56	

128 Ethyl Benzene						CAS #: 100-41-4			
20.936	20.936	(1.007)	106	2994164	100.000	106.66	50.00- 150.00	100.00	
20.936	20.936	(1.007)	91	9346849			265.06- 365.06	312.17	

129 m,p-Xylene						CAS #: 108-38-3			
21.130	21.130	(1.016)	106	3790763	100.000	108.69	50.00- 150.00	100.00	
21.130	21.130	(1.016)	91	7391775			147.41- 247.41	194.99	

130 o-Xylene						CAS #: 95-47-6			
21.849	21.849	(1.051)	106	3499245	100.000	108.88	50.00- 150.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 o-Xylene (continued)									
21.849	21.849	(1.051)	91	7176195			155.82- 255.82	205.08	

131 Styrene CAS #: 100-42-5									
21.876	21.876	(1.052)	104	6221561	100.000	122.48	50.00- 150.00	100.00	
21.876	21.876	(1.052)	78	3011290			9.19- 109.19	48.40	

133 Bromoform CAS #: 75-25-2									
22.291	22.291	(1.072)	173	4189777	100.000	109.91	50.00- 150.00	100.00	
22.291	22.291	(1.072)	171	2174773			0.74- 100.74	51.91	

134 Cumene CAS #: 98-82-8									
22.429	22.429	(1.078)	105	9641309	100.000	114.24	50.00- 150.00	100.00	
22.429	22.429	(1.078)	120	2525535			0.00- 75.99	26.19	
22.429	22.429	(1.078)	51	731351			9.74- 109.74	7.59	

140 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.010	23.010	(1.106)	83	5515221	100.000	107.84	50.00- 150.00	100.00	
23.010	23.010	(1.106)	85	3558989			14.88- 114.88	64.53	

142 Propylbenzene CAS #: 103-65-1									
23.121	23.121	(1.112)	91	12105925	100.000	108.84	50.00- 150.00	100.00	
23.121	23.121	(1.112)	120	2699879			0.00- 72.67	22.30	
23.121	23.121	(1.112)	105	432078			0.00- 53.69	3.57	

145 4-Ethyltoluene CAS #: 622-96-8									
23.286	23.286	(1.120)	105	10325354	100.000	109.16	50.00- 150.00	100.00	
23.286	23.286	(1.120)	120	3117064			0.00- 80.49	30.19	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.397	23.397	(1.125)	105	8523839	100.000	108.83	50.00- 150.00	100.00	
23.397	23.397	(1.125)	120	4170568			1.60- 101.60	48.93	

150 1,2,4-Trimethylbenzene CAS #: 95-63-6									
24.033	24.033	(1.156)	105	8211375	100.000	109.92	50.00- 150.00	100.00	
24.033	24.033	(1.156)	120	3840796			0.00- 96.88	46.77	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
24.586	24.586	(1.182)	146	5533285	100.000	105.41	50.00- 150.00	100.00	
24.586	24.586	(1.182)	148	3515255			14.03- 114.03	63.53	
24.586	24.586	(1.182)	111	2275673			0.00- 91.33	41.13	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
24.752	24.752	(1.190)	146	5699141	100.000	105.44	50.00- 150.00	100.00	
24.752	24.752	(1.190)	148	3651283			15.04- 115.04	64.07	
24.724	24.724	(1.189)	111	2264530			0.00- 89.92	39.73	

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

159	alpha-Chlorotoluene					CAS #: 100-44-7			
24.945	24.945	(1.199)	91	8589075	100.000	112.38	50.00- 150.00	100.00	
24.945	24.945	(1.199)	126	1680285			0.00- 70.12	19.56	

161	1,2-Dichlorobenzene					CAS #: 95-50-1			
25.360	25.360	(1.219)	146	5430331	100.000	104.42	50.00- 150.00	100.00	
25.360	25.360	(1.219)	148	3447045			14.55- 114.55	63.48	
25.360	25.360	(1.219)	111	2323140			0.00- 93.18	42.78	

165	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
28.153	28.153	(1.354)	180	4667282	100.000	93.830	50.00- 150.00	100.00	
28.153	28.153	(1.354)	182	4411534			44.49- 144.49	94.52	

166	Hexachlorobutadiene					CAS #: 87-68-3			
28.319	28.319	(1.362)	225	3484780	100.000	95.823	50.00- 150.00	100.00	
28.319	28.319	(1.362)	223	2169757			14.10- 114.10	62.26	

19	Butane					CAS #: 106-97-8			
6.807	6.807	(0.490)	58	265295	100.000	92.101	50.00- 150.00	100.00	
6.807	6.807	(0.490)	43	1828714			668.04- 768.04	689.31	

29	Isopentane					CAS #: 78-78-4			
8.245	8.245	(0.594)	43	2274736	100.000	97.741	50.00- 150.00	100.00	
8.245	8.245	(0.594)	57	1768258			26.21- 126.21	77.73	

102	Methyl Cyclohexane					CAS #: 108-87-2			
16.346	16.346	(1.177)	83	3430627	100.000	104.26	50.00- 150.00	100.00	
16.346	16.346	(1.177)	98	1562675			0.00- 92.45	45.55	
16.346	16.346	(1.177)	55	2261362			18.10- 118.10	65.92	

167	Naphthalene					CAS #: 91-20-3			
28.678	28.678	(1.379)	128	6813152	100.000	95.219	50.00- 150.00	100.00	
28.678	28.678	(1.379)	127	833287			0.00- 62.43	12.23	

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 21-NOV-2007

Lab File ID: t112107.d

Calibration Time: 17:45

Lab Smp Id: ical

Client Smp ID: Level 6

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: dm

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv-100ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	306974	184184	429764	317570	3.45
97 1,4-Difluorobenze	1370844	822506	1919182	1449348	5.73
126 Chlorobenzene-d5	968009	580805	1355213	1025130	5.90

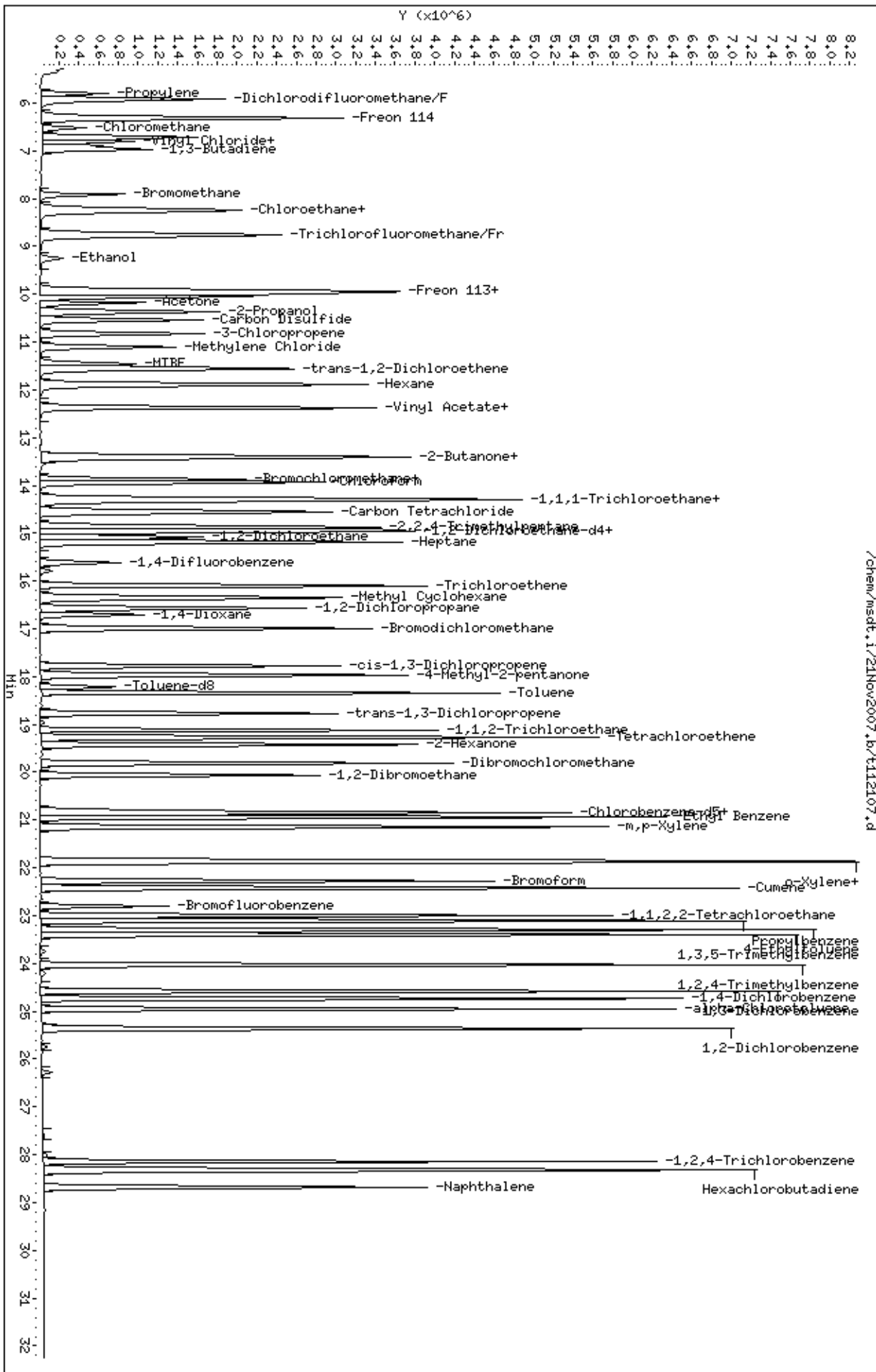
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.



Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112604.d
 Lab Smp Id: ical level 7
 Inj Date : 26-NOV-2007 11:39
 Operator : ea Inst ID: msdt.i
 Smp Info : 200ml #1487-402
 Misc Info : 200ppbv -> 200ppbv
 Comment :
 Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
 Meth Date : 27-Nov-2007 14:00 lover Quant Type: ISTD
 Cal Date : 26-NOV-2007 11:39 Cal File: t112604.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sp22b.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 81 Bromochloromethane CAS #: 74-97-5									
13.865	13.865	(1.000)	130	278721	25.0000			50.00- 150.00	100.00
13.865	13.865	(1.000)	128	211706				26.64- 126.64	75.96
13.865	13.865	(1.000)	49	288312				73.62- 173.62	103.44

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.607	15.607	(1.000)	114	1222361	25.0000			50.00- 150.00	100.00
15.607	15.607	(1.000)	88	195675				0.00- 65.84	16.01

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.805	20.805	(1.000)	117	1036408	25.0000			50.00- 150.00	100.00
20.805	20.805	(1.000)	82	570145				4.93- 104.93	55.01

5 Freon 143a CAS #: 420-46-2									
5.535	5.535	(0.399)	69	4385439	200.000	244.64		50.00- 150.00	100.00(A)

6 Freon142b CAS #: 75-68-3									
6.436	6.436	(0.464)	65	6214860	200.000	233.30		50.00- 150.00	100.00(A)
6.436	6.436	(0.464)	45	1191575				0.00- 69.76	19.17

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
9 Freon 13						CAS #: 75-72-9			
5.394	5.394	(0.389)	69	3933175	200.000	161.80	50.00- 150.00	100.00	
5.394	5.394	(0.389)	85	1284944			0.00- 82.40	32.67	
5.394	5.394	(0.389)	87	415334			0.00- 60.56	10.56	

13 Freon 134a						CAS #: 811-97-2			
5.704	5.704	(0.411)	83	2948377	200.000	233.71	50.00- 150.00	100.00(A)	
5.704	5.704	(0.411)	69	2422081			31.14- 131.14	82.15	

15 Freon 152a						CAS #: 75-37-6			
5.872	5.872	(0.424)	65	1559967	200.000	238.94	50.00- 150.00	100.00(A)	
5.872	5.872	(0.424)	51	2554141			117.84- 217.84	163.73	
5.872	5.872	(0.424)	47	607999			0.00- 88.39	38.98	

17 Freon 22						CAS #: 75-45-6			
6.013	6.013	(0.434)	67	775372	200.000	232.64	50.00- 150.00	100.00(A)	
6.013	6.013	(0.434)	51	3988336			439.12- 539.12	514.38	
6.013	6.013	(0.434)	85	80595			0.00- 91.16	10.39	

26 Methanol						CAS #: 67-56-1			
7.562	7.562	(0.545)	31	3878016	1200.00	1353.6	50.00- 150.00	100.00(A)	
7.562	7.562	(0.545)	32	2827690			73.38- 173.38	72.92	

34 Dichlorofluoromethane/Fr21						CAS #: 75-43-4			
8.745	8.745	(0.631)	67	5226273	200.000	234.13	50.00- 150.00	100.00(A)	
8.745	8.745	(0.631)	69	1694566			0.00- 82.06	32.42	
8.745	8.745	(0.631)	35	259938			0.00- 54.92	4.97	

40 Freon123a						CAS #: 354-23-4			
9.580	9.580	(0.691)	67	4485934	200.000	205.22	50.00- 150.00	100.00(A)	
9.580	9.580	(0.691)	117	3618530			30.97- 130.97	80.66	

41 Freon123						CAS #: 306-83-2			
9.718	9.718	(0.701)	83	6150000	200.000	203.20	50.00- 150.00	100.00	
9.718	9.718	(0.701)	133	1253319			0.00- 70.26	20.38	
9.718	9.718	(0.701)	85	4155434			17.95- 117.95	67.57	

57 tert-Butyl-Alcohol						CAS #: 75-65-0			
11.156	11.156	(0.805)	59	2336495	200.000	158.26	50.00- 150.00	100.00	
11.156	11.156	(0.805)	41	480203			0.00- 78.87	20.55	
11.156	11.156	(0.805)	57	237173			0.00- 61.35	10.15	

68 Isopropyl ether						CAS #: 108-20-3			
12.289	12.289	(0.886)	45	10313074	200.000	225.32	50.00- 150.00	100.00(A)	
12.289	12.289	(0.886)	87	3472544			0.00- 84.51	33.67	
12.289	12.289	(0.886)	59	1244633			0.00- 62.64	12.07	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
71 1-Propanol										
						CAS #:	71-23-8			
12.400	12.400	(0.894)	42	523507	200.000	217.36	50.00- 150.00	100.00(AH)		
12.400	12.400	(0.894)	59	761145			75.45- 175.45	145.39		
12.400	12.400	(0.894)	41	367154			158.05- 258.05	70.13		

73 t-Butylethyl Ether										
						CAS #:	637-92-3			
12.925	12.925	(0.932)	59	4697576	200.000	211.18	50.00- 150.00	100.00(A)		
12.925	12.925	(0.932)	87	2129092			0.00- 95.70	45.32		
12.925	12.925	(0.932)	41	756608			0.00- 69.82	16.11		

77 Ethyl Acetate										
						CAS #:	141-78-6			
13.395	13.395	(0.966)	45	1055266	200.000	218.76	50.00- 150.00	100.00(A)		
13.395	13.395	(0.966)	61	1215125			63.70- 163.70	115.15		
13.395	13.395	(0.966)	43	7334786			641.02- 741.02	695.07		

99 Isobutanol										
						CAS #:	78-83-1			
14.612	14.612	(0.936)	59	86876	200.000	286.79	50.00- 150.00	100.00(A)		
14.612	14.612	(0.936)	41	1712195			2254.31-2354.31	1970.85		
14.612	14.612	(0.936)	43	2262965			2684.91-2784.91	2604.82		

92 tert-amyl-Methyl Ether										
						CAS #:	994-05-8			
14.999	14.999	(1.082)	73	4704738	200.000	178.76	50.00- 150.00	100.00		
14.999	14.999	(1.082)	87	1168644			0.00- 75.09	24.84		
14.999	14.999	(1.082)	55	1058139			0.00- 74.77	22.49		

96 2-Heptanone										
						CAS #:	110-43-0			
21.966	21.966	(1.584)	58	5483071	200.000	296.14	50.00- 150.00	100.00(A)		
21.966	21.966	(1.584)	43	7373377			85.60- 185.60	134.48		

98 1-Butanol										
						CAS #:	71-36-3			
15.773	15.773	(1.011)	56	2236493	200.000	359.04	50.00- 150.00	100.00(A)		
15.773	15.773	(1.011)	41	1406755			17.89- 117.89	62.90		
15.773	15.773	(1.011)	43	1077912			0.00- 99.85	48.20		

119 Butyl Acetate										
						CAS #:	123-86-4			
19.533	19.533	(1.252)	56	3577651	200.000	282.87	50.00- 150.00	100.00(A)		
19.533	19.533	(1.252)	73	1526966			0.00- 94.51	42.68		
19.533	19.533	(1.252)	43	7725128			163.30- 263.30	215.93		

135 Cyclohexanone										
						CAS #:	108-94-1			
22.741	22.741	(1.093)	55	3650405	200.000	264.06	50.00- 150.00	100.00(A)		
22.741	22.741	(1.093)	98	2097956			6.71- 106.71	57.47		
22.741	22.741	(1.093)	42	2286673			11.68- 111.68	62.64		

146 Diisobutyl Ketone										
						CAS #:	108-83-8			
23.570	23.570	(1.133)	57	9234437	200.000	270.75	50.00- 150.00	100.00(A)		

Report Date: 27-Nov-2007 14:00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
146 Diisobutyl Ketone (continued)									
23.570	23.570	(1.133)	85	9407882			53.67- 153.67	101.88	
0.000	1.000	(0.000)	0	0			0.00- 50.00	0.00	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- H - Operator selected an alternate compound hit.

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
 Lab File ID: t112604.d
 Lab Smp Id: ical level 7
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ea

Calibration Date: 26-NOV-2007
 Calibration Time: 10:49

Level: LOW
 Sample Type: AIR

Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m

Misc Info: 200ppbv -> 200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	301939	181163	422715	278721	-7.69
97 1,4-Difluorobenze	1427711	856627	1998795	1222361	-14.38
126 Chlorobenzene-d5	1047767	628660	1466874	1036408	-1.08

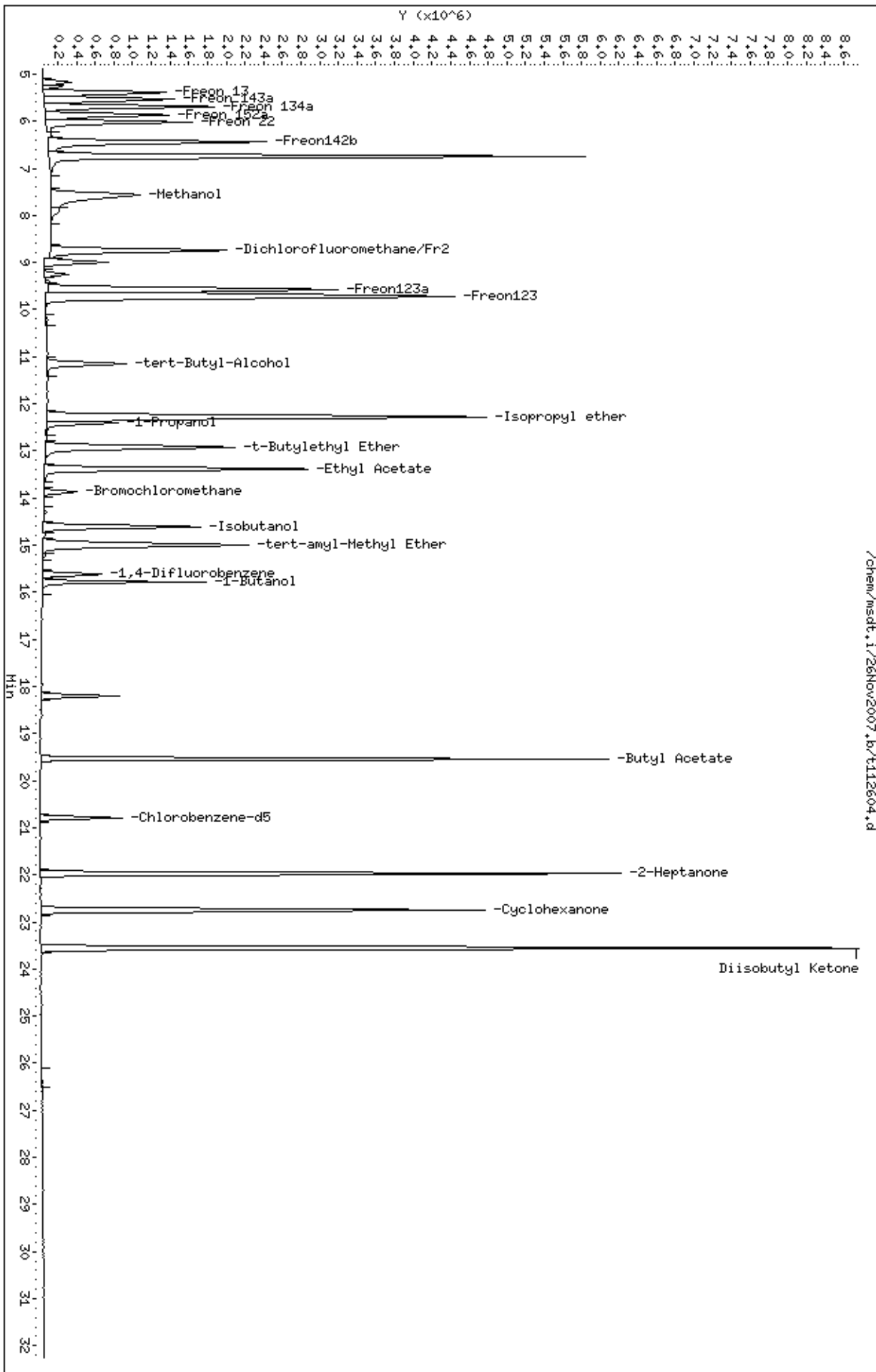
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.81	0.00

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: 26-Nov-2007 15:03

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112108.d
 Lab Smp Id: ical Client Smp ID: Level 7
 Inj Date : 21-NOV-2007 19:02
 Operator : dm Inst ID: msdt.i
 Smp Info : 200ml #1576-92
 Misc Info : 200ppbv-200ppbv
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
 Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
 Cal Date : 21-NOV-2007 19:02 Cal File: t112108.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 81 Bromochloromethane CAS #: 74-97-5									
13.886	13.886	(1.000)	130	261482	25.0000			50.00- 150.00	100.00
13.886	13.886	(1.000)	128	204602				26.38- 126.38	78.25
13.941	13.941	(1.000)	49	823542				91.95- 191.95	314.95

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.628	15.628	(1.000)	114	1257992	25.0000			50.00- 150.00	100.00
15.628	15.628	(1.000)	88	200990				0.00- 65.95	15.98

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	1020523	25.0000			50.00- 150.00	100.00
20.798	20.798	(1.000)	82	570123				5.79- 105.79	55.87

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.936	14.936	(1.076)	65	454510	25.0000	26.965		50.00- 150.00	100.00
14.936	14.936	(1.076)	67	348906				5.03- 105.03	76.77

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.227	18.227	(1.166)	98	1170796	25.0000	27.494		50.00- 150.00	100.00
18.199	18.199	(1.165)	70	124984				0.00- 61.02	10.68

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

\$ 113 Toluene-d8 (continued)										
18.227	18.227	(1.166)	100	811182			19.45- 119.45	69.28		

\$ 137 Bromofluorobenzene										
						CAS #:	460-00-4			
22.789	22.789	(1.096)	174	661131	25.0000	25.790	50.00- 150.00	100.00		
22.789	22.789	(1.096)	95	822026			77.33- 177.33	124.34		
22.789	22.789	(1.096)	176	638532			46.56- 146.56	96.58		

11 Propylene						CAS #:	115-07-1			
5.840	5.840	(0.421)	41	1505176	200.000	216.04	50.00- 150.00	100.00(A)		
5.840	5.840	(0.421)	42	1050035			17.24- 117.24	69.76		
5.840	5.840	(0.421)	39	1178284			27.83- 127.83	78.28		

12 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8			
5.950	5.950	(0.428)	85	8568330	200.000	223.15	50.00- 150.00	100.00(A)		
5.950	5.950	(0.428)	87	2729690			0.00- 82.07	31.86		

16 Freon 114						CAS #:	76-14-2			
6.337	6.337	(0.456)	135	5764093	200.000	231.48	50.00- 150.00	100.00(A)		
6.337	6.337	(0.456)	137	1831723			0.00- 81.55	31.78		

18 Chloromethane						CAS #:	74-87-3			
6.559	6.559	(0.472)	50	1930247	200.000	217.90	50.00- 150.00	100.00(A)		
6.559	6.559	(0.472)	52	654586			0.00- 84.03	33.91		

20 Vinyl Chloride						CAS #:	75-01-4			
6.918	6.918	(0.498)	62	2845566	200.000	234.84	50.00- 150.00	100.00(A)		
6.918	6.918	(0.498)	64	920131			0.00- 93.71	32.34		

22 1,3-Butadiene						CAS #:	106-99-0			
7.001	7.001	(0.504)	54	1997802	200.000	202.51	50.00- 150.00	100.00(A)		
7.001	7.001	(0.504)	39	1789672			54.52- 154.52	89.58		

25 Bromomethane						CAS #:	74-83-9			
7.941	7.941	(0.572)	94	2802560	200.000	255.40	50.00- 150.00	100.00(A)		
7.941	7.941	(0.572)	96	2591932			50.48- 150.48	92.48		

27 Chloroethane						CAS #:	75-00-3			
8.217	8.217	(0.592)	64	1522039	200.000	256.22	50.00- 150.00	100.00(A)		
8.217	8.217	(0.592)	49	368452			0.00- 74.88	24.21		
8.217	8.217	(0.592)	66	502675			0.00- 80.84	33.03		

31 Trichlorofluoromethane/Fr11						CAS #:	75-69-4			
8.798	8.798	(0.634)	101	9938104	200.000	199.42	50.00- 150.00	100.00		
8.798	8.798	(0.634)	103	6449487			16.26- 116.26	64.90		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Ethanol						CAS #: 64-17-5			
9.268	9.268	(0.667)	45	1039555	200.000	183.04	50.00- 150.00	100.00	
9.268	9.268	(0.667)	43	224837			0.00- 72.67	21.63	
9.268	9.268	(0.667)	46	379839			0.00- 86.29	36.54	

42 Freon 113						CAS #: 76-13-1			
9.959	9.959	(0.717)	151	6037693	200.000	201.08	50.00- 150.00	100.00(A)	
9.959	9.959	(0.717)	153	3834789			15.23- 115.23	63.51	
9.959	9.959	(0.717)	101	7707198			83.14- 183.14	127.65	

43 1,1-Dichloroethene						CAS #: 75-35-4			
10.042	10.042	(0.723)	61	4630214	200.000	203.65	50.00- 150.00	100.00(A)	
10.042	10.042	(0.723)	96	3052165			16.79- 116.79	65.92	
10.070	10.070	(0.725)	98	1959657			0.00- 90.88	42.32	

45 Acetone						CAS #: 67-64-1			
10.208	10.208	(0.735)	58	1556845	200.000	187.67	50.00- 150.00	100.00	
10.208	10.208	(0.735)	43	4523890			259.05- 359.05	290.58	

46 2-Propanol						CAS #: 67-63-0			
10.402	10.402	(0.749)	45	7953631	200.000	190.77	50.00- 150.00	100.00	
10.402	10.402	(0.749)	43	1650886			0.00- 73.80	20.76	
10.402	10.402	(0.749)	59	356067			0.00- 54.08	4.48	

47 Carbon Disulfide						CAS #: 75-15-0			
10.568	10.568	(0.761)	76	9070071	200.000	232.96	50.00- 150.00	100.00(A)	

51 3-Chloropropene						CAS #: 107-05-1			
10.844	10.844	(0.781)	76	1651016	200.000	204.57	50.00- 150.00	100.00(A)	
10.817	10.817	(0.779)	41	3452254			185.00- 285.00	209.10	

54 Methylene Chloride						CAS #: 75-09-2			
11.121	11.121	(0.801)	49	2734562	200.000	199.91	50.00- 150.00	100.00	
11.121	11.121	(0.801)	84	2614097			40.01- 140.01	95.59	
11.121	11.121	(0.801)	51	845716			0.00- 81.08	30.93	

60 MTBE						CAS #: 1634-04-4			
11.480	11.480	(0.827)	73	5283151	200.000	246.89	50.00- 150.00	100.00(A)	
11.480	11.480	(0.827)	57	991360			0.00- 69.28	18.76	
11.452	11.452	(0.825)	41	891223			0.00- 69.31	16.87	

61 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.563	11.563	(0.833)	96	3884077	200.000	208.91	50.00- 150.00	100.00(A)	
11.563	11.563	(0.833)	61	5043253			83.34- 183.34	129.84	
11.563	11.563	(0.833)	98	2478084			11.49- 111.49	63.80	

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

65 Hexane						CAS #: 110-54-3			
11.895	11.895	(0.857)	57	6786841	200.000	222.56	50.00- 150.00	100.00(A)	
11.895	11.895	(0.857)	43	3721720			6.67- 106.67	54.84	
11.895	11.895	(0.857)	86	1256145			0.00- 66.53	18.51	

69 Vinyl Acetate						CAS #: 108-05-4			
12.365	12.365	(0.890)	86	1106568	200.000	221.75	50.00- 150.00	100.00(A)	
12.365	12.365	(0.890)	43	9140470			869.92- 969.92	826.02	

70 1,1-Dichloroethane						CAS #: 75-34-3			
12.393	12.393	(0.892)	63	6699585	200.000	212.05	50.00- 150.00	100.00(A)	
12.393	12.393	(0.892)	65	2158962			0.00- 81.73	32.23	

75 2-Butanone						CAS #: 78-93-3			
13.388	13.388	(0.964)	72	2332276	200.000	226.69	50.00- 150.00	100.00(A)	
13.388	13.388	(0.964)	43	8834186			362.73- 462.73	378.78	
13.388	13.388	(0.964)	57	656312			0.00- 79.31	28.14	

76 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.443	13.443	(0.968)	61	4825465	200.000	213.09	50.00- 150.00	100.00(A)	
13.443	13.443	(0.968)	96	3846208			30.20- 130.20	79.71	
13.443	13.443	(0.968)	98	2462257			0.03- 100.03	51.03	

80 Tetrahydrofuran						CAS #: 109-99-9			
13.858	13.858	(0.998)	42	3572517	200.000	209.43	50.00- 150.00	100.00(A)	
13.858	13.858	(0.998)	71	1978703			0.15- 100.15	55.39	
13.858	13.858	(0.998)	72	2115505			4.67- 104.67	59.22	

82 Chloroform						CAS #: 67-66-3			
13.941	13.941	(1.004)	83	7953400	200.000	225.78	50.00- 150.00	100.00(A)	
13.941	13.941	(1.004)	85	5185796			16.84- 116.84	65.20	

83 1,1,1-Trichloroethane						CAS #: 71-55-6			
14.300	14.300	(1.030)	97	8227969	200.000	220.55	50.00- 150.00	100.00(A)	
14.300	14.300	(1.030)	99	5295209			13.29- 113.29	64.36	

85 Cyclohexane						CAS #: 110-82-7			
14.300	14.300	(1.030)	84	5011386	200.000	239.50	50.00- 150.00	100.00(A)	
14.300	14.300	(1.030)	56	4791832			49.76- 149.76	95.62	
14.300	14.300	(1.030)	41	2331711			3.69- 103.69	46.53	

87 Carbon Tetrachloride						CAS #: 56-23-5			
14.549	14.549	(1.048)	119	7747860	200.000	221.27	50.00- 150.00	100.00(A)	
14.549	14.549	(1.048)	117	8245309			54.35- 154.35	106.42	

91 Benzene						CAS #: 71-43-2			
14.964	14.964	(0.958)	78	11488082	200.000	214.05	50.00- 150.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
91 Benzene (continued)									
14.964	14.964	(0.958)	77	2570571			0.00- 72.49	22.38	

89 2,2,4-Trimethylpentane CAS #: 540-84-1									
14.881	14.881	(1.072)	57	15482276	200.000	208.34	50.00- 150.00	100.00(A)	
14.881	14.881	(1.072)	56	4983916			0.00- 82.34	32.19	
14.881	14.881	(1.072)	41	3669177			0.00- 76.30	23.70	

93 1,2-Dichloroethane CAS #: 107-06-2									
15.075	15.075	(0.965)	62	4990424	200.000	197.77	50.00- 150.00	100.00	
15.075	15.075	(0.965)	64	1615439			0.00- 84.21	32.37	

94 Heptane CAS #: 142-82-5									
15.185	15.185	(0.972)	71	4415071	200.000	227.99	50.00- 150.00	100.00(A)	
15.185	15.185	(0.972)	43	5659807			86.68- 186.68	128.19	
15.185	15.185	(0.972)	57	3536428			32.20- 132.20	80.10	

101 Trichloroethene CAS #: 79-01-6									
16.098	16.098	(1.030)	95	5125142	200.000	209.18	50.00- 150.00	100.00(A)	
16.098	16.098	(1.030)	130	4763395			47.47- 147.47	92.94	
16.098	16.098	(1.030)	97	3248658			14.52- 114.52	63.39	

104 1,2-Dichloropropane CAS #: 78-87-5									
16.568	16.568	(1.060)	63	3841268	200.000	209.32	50.00- 150.00	100.00(A)	
16.568	16.568	(1.060)	62	2719674			17.52- 117.52	70.80	
16.568	16.568	(1.060)	41	1836122			0.97- 100.97	47.80	

106 1,4-Dioxane CAS #: 123-91-1									
16.706	16.706	(1.069)	88	3491098	200.000	219.33	50.00- 150.00	100.00(A)	
16.706	16.706	(1.069)	58	1909329			6.89- 106.89	54.69	
16.706	16.706	(1.069)	57	651640			0.00- 69.74	18.67	

107 Bromodichloromethane CAS #: 75-27-4									
17.010	17.010	(1.088)	83	8528290	200.000	213.32	50.00- 150.00	100.00(A)	
17.010	17.010	(1.088)	85	5476808			14.67- 114.67	64.22	

110 cis-1,3-Dichloropropene CAS #: 10061-01-5									
17.784	17.784	(1.138)	75	6695398	200.000	229.01	50.00- 150.00	100.00(A)	
17.784	17.784	(1.138)	77	2140873			0.00- 83.04	31.98	
17.784	17.784	(1.138)	39	2601443			0.00- 93.89	38.85	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.978	17.978	(1.150)	58	4500034	200.000	245.98	50.00- 150.00	100.00(A)	
17.978	17.978	(1.150)	43	9772760			169.12- 269.12	217.17	
17.978	17.978	(1.150)	85	2341011			0.58- 100.58	52.02	

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

114 Toluene						CAS #: 108-88-3			
18.337	18.337	(1.173)	91	13683042	200.000	229.78	50.00- 150.00	100.00(A)	
18.337	18.337	(1.173)	92	8331741			11.10- 111.10	60.89	

116 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
18.780	18.780	(0.903)	75	7227455	200.000	210.08	50.00- 150.00	100.00(A)	
18.780	18.780	(0.903)	77	2296509			0.00- 83.38	31.77	
18.780	18.780	(0.903)	39	2626173			0.00- 92.03	36.34	

117 1,1,2-Trichloroethane						CAS #: 79-00-5			
19.111	19.111	(0.919)	97	4923054	200.000	204.29	50.00- 150.00	100.00(A)	
19.111	19.111	(0.919)	99	3110953			14.64- 114.64	63.19	
19.111	19.111	(0.919)	83	4175230			37.04- 137.04	84.81	

120 Tetrachloroethene						CAS #: 127-18-4			
19.277	19.277	(0.927)	166	6417881	200.000	199.16	50.00- 150.00	100.00	
19.277	19.277	(0.927)	129	4459146			21.89- 121.89	69.48	
19.277	19.277	(0.927)	131	4249913			19.59- 119.59	66.22	

121 2-Hexanone						CAS #: 591-78-6			
19.416	19.416	(0.934)	58	6683784	200.000	213.88	50.00- 150.00	100.00(A)	
19.416	19.416	(0.934)	43	10560772			114.75- 214.75	158.01	
19.443	19.443	(0.935)	100	1503065			0.00- 71.95	22.49	

122 Dibromochloromethane						CAS #: 124-48-1			
19.803	19.803	(0.952)	129	8118801	200.000	202.46	50.00- 150.00	100.00(A)	
19.803	19.803	(0.952)	127	6252380			26.41- 126.41	77.01	

123 1,2-Dibromoethane						CAS #: 106-93-4			
20.079	20.079	(0.965)	107	8079575	200.000	208.55	50.00- 150.00	100.00(A)	
20.079	20.079	(0.965)	109	7475928			43.48- 143.48	92.53	

127 Chlorobenzene						CAS #: 108-90-7			
20.853	20.853	(1.003)	112	11109579	200.000	205.65	50.00- 150.00	100.00(A)	
20.853	20.853	(1.003)	114	3440140			0.00- 83.18	30.97	
20.853	20.853	(1.003)	77	6541974			20.20- 120.20	58.89	

128 Ethyl Benzene						CAS #: 100-41-4			
20.936	20.936	(1.007)	106	5981781	200.000	214.05	50.00- 150.00	100.00(A)	
20.936	20.936	(1.007)	91	18860474			265.06- 365.06	315.30	

129 m,p-Xylene						CAS #: 108-38-3			
21.130	21.130	(1.016)	106	7521514	200.000	216.63	50.00- 150.00	100.00(A)	
21.130	21.130	(1.016)	91	14922197			147.41- 247.41	198.39	

130 o-Xylene						CAS #: 95-47-6			
21.849	21.849	(1.051)	106	6890459	200.000	215.37	50.00- 150.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 o-Xylene (continued)									
21.849	21.849	(1.051)	91	14428568			155.82- 255.82	209.40	

131 Styrene CAS #: 100-42-5									
21.876	21.876	(1.052)	104	12448952	200.000	246.18	50.00- 150.00	100.00(A)	
21.876	21.876	(1.052)	78	5925128			9.19- 109.19	47.60	

133 Bromoform CAS #: 75-25-2									
22.291	22.291	(1.072)	173	8168757	200.000	215.26	50.00- 150.00	100.00(A)	
22.291	22.291	(1.072)	171	4179261			0.74- 100.74	51.16	

134 Cumene CAS #: 98-82-8									
22.429	22.429	(1.078)	105	19372181	200.000	230.58	50.00- 150.00	100.00(A)	
22.429	22.429	(1.078)	120	5021121			0.00- 75.99	25.92	
22.429	22.429	(1.078)	51	1444162			9.74- 109.74	7.45	

140 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.010	23.010	(1.106)	83	10903987	200.000	214.18	50.00- 150.00	100.00(A)	
23.010	23.010	(1.106)	85	7005100			14.88- 114.88	64.24	

142 Propylbenzene CAS #: 103-65-1									
23.121	23.121	(1.112)	91	24082267	200.000	217.50	50.00- 150.00	100.00(A)	
23.121	23.121	(1.112)	120	5272139			0.00- 72.67	21.89	
23.121	23.121	(1.112)	105	855002			0.00- 53.69	3.55	

145 4-Ethyltoluene CAS #: 622-96-8									
23.286	23.286	(1.120)	105	20504810	200.000	217.75	50.00- 150.00	100.00(A)	
23.286	23.286	(1.120)	120	6095494			0.00- 80.49	29.73	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.397	23.397	(1.125)	105	16992345	200.000	217.94	50.00- 150.00	100.00(A)	
23.397	23.397	(1.125)	120	8301290			1.60- 101.60	48.85	

150 1,2,4-Trimethylbenzene CAS #: 95-63-6									
24.033	24.033	(1.156)	105	16287302	200.000	219.01	50.00- 150.00	100.00(A)	
24.033	24.033	(1.156)	120	7556559			0.00- 96.88	46.40	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
24.586	24.586	(1.182)	146	10827568	200.000	207.20	50.00- 150.00	100.00(A)	
24.586	24.586	(1.182)	148	6861597			14.03- 114.03	63.37	
24.586	24.586	(1.182)	111	4451405			0.00- 91.33	41.11	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
24.752	24.752	(1.190)	146	11291436	200.000	209.84	50.00- 150.00	100.00(A)	
24.752	24.752	(1.190)	148	7145811			15.04- 115.04	63.29	
24.724	24.724	(1.189)	111	4417182			0.00- 89.92	39.12	

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

159 alpha-Chlorotoluene CAS #: 100-44-7									
24.945	24.945	(1.199)	91	17402662	200.000	228.72	50.00- 150.00	100.00(A)	
24.945	24.945	(1.199)	126	3358930			0.00- 70.12	19.30	

161 1,2-Dichlorobenzene CAS #: 95-50-1									
25.360	25.360	(1.219)	146	10787952	200.000	208.37	50.00- 150.00	100.00(A)	
25.360	25.360	(1.219)	148	6854943			14.55- 114.55	63.54	
25.360	25.360	(1.219)	111	4594691			0.00- 93.18	42.59	

165 1,2,4-Trichlorobenzene CAS #: 120-82-1									
28.153	28.153	(1.354)	180	9872838	200.000	199.38	50.00- 150.00	100.00	
28.153	28.153	(1.354)	182	9371797			44.49- 144.49	94.93	

166 Hexachlorobutadiene CAS #: 87-68-3									
28.319	28.319	(1.362)	225	7064577	200.000	195.14	50.00- 150.00	100.00	
28.319	28.319	(1.362)	223	4454710			14.10- 114.10	63.06	

19 Butane CAS #: 106-97-8									
6.835	6.835	(0.492)	58	481552	200.000	203.04	50.00- 150.00	100.00(A)	
6.835	6.835	(0.492)	43	3273555			668.04- 768.04	679.79	

29 Isopentane CAS #: 78-78-4									
8.273	8.273	(0.596)	43	3598505	200.000	187.79	50.00- 150.00	100.00	
8.273	8.273	(0.596)	57	2837925			26.21- 126.21	78.86	

102 Methyl Cyclohexane CAS #: 108-87-2									
16.374	16.374	(1.179)	83	6405056	200.000	236.42	50.00- 150.00	100.00(A)	
16.374	16.374	(1.179)	98	2886481			0.00- 92.45	45.07	
16.346	16.346	(1.177)	55	4201357			18.10- 118.10	65.59	

167 Naphthalene CAS #: 91-20-3									
28.678	28.678	(1.379)	128	14683545	200.000	206.14	50.00- 150.00	100.00(A)	
28.678	28.678	(1.379)	127	1764730			0.00- 62.43	12.02	

QC Flag Legend

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

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 21-NOV-2007

Lab File ID: t112108.d

Calibration Time: 17:45

Lab Smp Id: ical

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: dm

Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m

Misc Info: 200ppbv-200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	306974	184184	429764	261482	-14.82
97 1,4-Difluorobenze	1370844	822506	1919182	1257992	-8.23
126 Chlorobenzene-d5	968009	580805	1355213	1020523	5.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

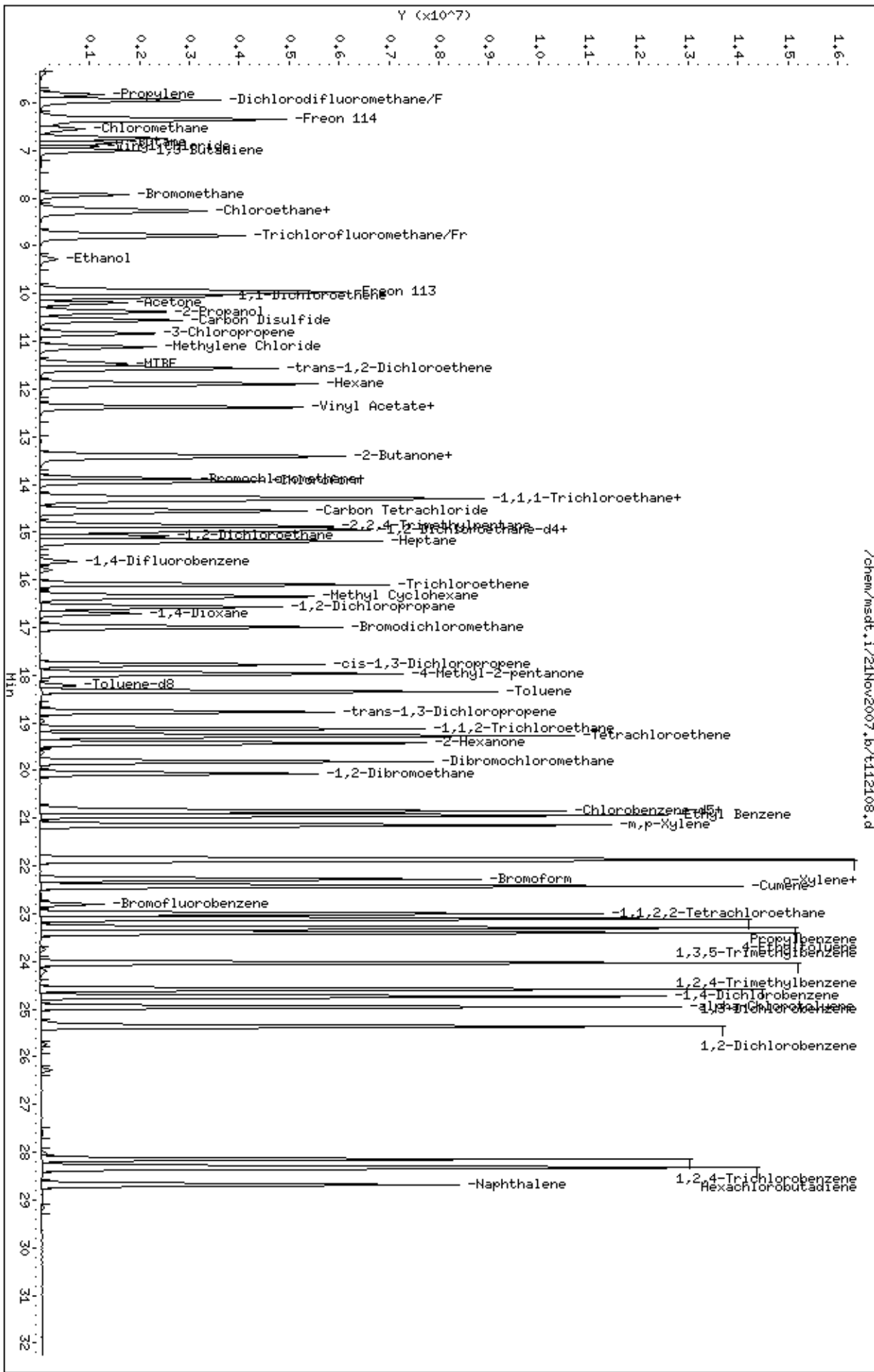
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdt,i/21Nov2007,b/t112108.d
 Date: 21-NOV-2007 19:02
 Client ID: Level 7
 Sample Info: 200ml #1576-92

Column phase: RTX-624

Instrument: msdt,i
 Operator: dm
 Column diameter: 0.53





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0711487-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/07 09:44 AM

Compound	%Recovery
Freon 12	110
Freon 114	108
Vinyl Chloride	112
Bromomethane	121
Chloroethane	117
Freon 11	111
1,1-Dichloroethene	106
Freon 113	111
Methylene Chloride	96
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	108
Chloroform	115
1,1,1-Trichloroethane	105
Carbon Tetrachloride	106
Benzene	102
1,2-Dichloroethane	103
Trichloroethene	105
1,2-Dichloropropane	98
cis-1,3-Dichloropropene	108
Toluene	102
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	109
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	106
Chlorobenzene	102
Ethyl Benzene	103
m,p-Xylene	104
o-Xylene	104
Styrene	114
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	102
1,3-Butadiene	115
Hexane	109
Cyclohexane	107



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0711487-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/07 09:44 AM

Compound	%Recovery
Heptane	106
Bromodichloromethane	105
Dibromochloromethane	106
Cumene	112
Propylbenzene	104
Chloromethane	102
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	100
Acetone	98
Carbon Disulfide	110
2-Propanol	95
trans-1,2-Dichloroethene	104
2-Butanone (Methyl Ethyl Ketone)	115
Tetrahydrofuran	102
1,4-Dioxane	105
4-Methyl-2-pentanone	105
2-Hexanone	100
Bromoform	105
4-Ethyltoluene	105
Ethanol	94
Methyl tert-butyl ether	108
3-Chloropropene	103
2,2,4-Trimethylpentane	100
Naphthalene	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 04-Dec-2007 13:34

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdt.i Injection Date: 04-DEC-2007 09:44
 Lab File ID: t120402.d Init. Cal. Date(s): 21-NOV-2007 26-NOV-2007
 Analysis Type: AIR Init. Cal. Times: 14:44 15:28
 Lab Sample ID: CCV-1 Quant Type: ISTD
 Method: /chem/msdt.i/04Dec2007.b/t14q1121b.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE	
			RRF	%D / %DRIFT	%D / %DRIFT	
\$ 90 1,2-Dichloroethane-d4	1.61155	1.73775	0.010	-7.83065	30.00000	Averaged
\$ 113 Toluene-d8	0.84627	0.85614	0.010	-1.16594	30.00000	Averaged
\$ 137 Bromofluorobenzene	0.62800	0.61576	0.010	1.94961	30.00000	Averaged
11 Propylene	0.66613	0.64279	0.010	3.50393	30.00000	Averaged
12 Dichlorodifluoromethane/Fr1	3.67107	4.02533	0.010	-9.65012	30.00000	Averaged
16 Freon 114	2.38070	2.58238	0.010	-8.47134	30.00000	Averaged
18 Chloromethane	0.84696	0.86374	0.010	-1.98148	30.00000	Averaged
20 Vinyl Chloride	1.15851	1.29555	0.010	-11.82885	30.00000	Averaged
22 1,3-Butadiene	0.94320	1.08813	0.010	-15.36566	30.00000	Averaged
25 Bromomethane	1.04913	1.27360	0.010	-21.39630	30.00000	Averaged
27 Chloroethane	0.56795	0.66327	0.010	-16.78343	30.00000	Averaged
31 Trichlorofluoromethane/Fr11	4.76457	5.27799	0.010	-10.77600	30.00000	Averaged
38 Ethanol	0.54299	0.51197	0.010	5.71331	30.00000	Averaged
42 Freon 113	2.87076	3.19486	0.010	-11.28978	30.00000	Averaged
43 1,1-Dichloroethene	2.17378	2.29338	0.010	-5.50196	30.00000	Averaged
45 Acetone	0.79312	0.77752	0.010	1.96713	30.00000	Averaged
46 2-Propanol	3.98617	3.78279	0.010	5.10213	30.00000	Averaged
47 Carbon Disulfide	3.72248	4.08568	0.010	-9.75705	30.00000	Averaged
51 3-Chloropropene	0.77162	0.79718	0.010	-3.31301	30.00000	Averaged
54 Methylene Chloride	1.30783	1.26254	0.010	3.46355	30.00000	Averaged
60 MTBE	2.04594	2.20309	0.010	-7.68103	30.00000	Averaged
61 trans-1,2-Dichloroethene	1.77756	1.84101	0.010	-3.56936	30.00000	Averaged
65 Hexane	2.91560	3.18609	0.010	-9.27724	30.00000	Averaged
69 Vinyl Acetate	0.47711	0.53266	0.010	-11.64274	30.00000	Averaged
70 1,1-Dichloroethane	3.02064	3.19443	0.010	-5.75341	30.00000	Averaged
75 2-Butanone	0.98366	1.13290	0.010	-15.17165	30.00000	Averaged
76 cis-1,2-Dichloroethene	2.16511	2.33081	0.010	-7.65321	30.00000	Averaged
80 Tetrahydrofuran	1.63094	1.65541	0.010	-1.50066	30.00000	Averaged
82 Chloroform	3.36787	3.88945	0.010	-15.48687	30.00000	Averaged
83 1,1,1-Trichloroethane	3.56685	3.75652	0.010	-5.31738	30.00000	Averaged
85 Cyclohexane	2.00058	2.14730	0.010	-7.33382	30.00000	Averaged
87 Carbon Tetrachloride	3.34780	3.53521	0.010	-5.59788	30.00000	Averaged
89 2,2,4-Trimethylpentane	7.10496	7.11042	0.010	-0.07673	30.00000	Averaged
91 Benzene	1.06658	1.09086	0.010	-2.27649	30.00000	Averaged
93 1,2-Dichloroethane	0.50146	0.51544	0.010	-2.78851	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdt.i Injection Date: 04-DEC-2007 09:44
 Lab File ID: t120402.d Init. Cal. Date(s): 21-NOV-2007 26-NOV-2007
 Analysis Type: AIR Init. Cal. Times: 14:44 15:28
 Lab Sample ID: CCV-1 Quant Type: ISTD
 Method: /chem/msdt.i/04Dec2007.b/t14q1121b.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE
			RRF %D / %DRIFT	%D / %DRIFT	
94 Heptane	0.38484	0.40672	0.010 -5.68514	30.00000	Averaged
101 Trichloroethene	0.48692	0.50951	0.010 -4.63953	30.00000	Averaged
104 1,2-Dichloropropane	0.36470	0.35784	0.010 1.87987	30.00000	Averaged
106 1,4-Dioxane	0.31632	0.33327	0.010 -5.35654	30.00000	Averaged
107 Bromodichloromethane	0.79448	0.83630	0.010 -5.26494	30.00000	Averaged
110 cis-1,3-Dichloropropene	0.58102	0.62642	0.010 -7.81334	30.00000	Averaged
111 4-Methyl-2-pentanone	0.36356	0.38126	0.010 -4.86957	30.00000	Averaged
114 Toluene	1.18340	1.21130	0.010 -2.35739	30.00000	Averaged
116 trans-1,3-Dichloropropene	0.84279	0.92142	0.010 -9.33019	30.00000	Averaged
117 1,1,2-Trichloroethane	0.59034	0.64143	0.010 -8.65461	30.00000	Averaged
120 Tetrachloroethene	0.78940	0.83719	0.010 -6.05340	30.00000	Averaged
121 2-Hexanone	0.76554	0.76448	0.010 0.13765	30.00000	Averaged
122 Dibromochloromethane	0.98234	1.04679	0.010 -6.56071	30.00000	Averaged
123 1,2-Dibromoethane	0.94905	1.00980	0.010 -6.40074	30.00000	Averaged
127 Chlorobenzene	1.32338	1.34743	0.010 -1.81748	30.00000	Averaged
128 Ethyl Benzene	0.68458	0.70784	0.010 -3.39749	30.00000	Averaged
129 m,p-Xylene	0.85057	0.88968	0.010 -4.59860	30.00000	Averaged
130 o-Xylene	0.78374	0.81535	0.010 -4.03361	30.00000	Averaged
131 Styrene	1.23881	1.41204	0.010 -13.98411	30.00000	Averaged
133 Bromoform	0.92963	0.97790	0.010 -5.19209	30.00000	Averaged
134 Cumene	2.05813	2.30131	0.010 -11.81554	30.00000	Averaged
140 1,1,2,2-Tetrachloroethane	1.24719	1.29296	0.010 -3.66959	30.00000	Averaged
142 Propylbenzene	2.71238	2.83522	0.010 -4.52897	30.00000	Averaged
145 4-Ethyltoluene	2.30684	2.42079	0.010 -4.93954	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.91002	1.98073	0.010 -3.70191	30.00000	Averaged
150 1,2,4-Trimethylbenzene	1.82179	1.91591	0.010 -5.16619	30.00000	Averaged
155 1,3-Dichlorobenzene	1.28016	1.28630	0.010 -0.47978	30.00000	Averaged
156 1,4-Dichlorobenzene	1.31816	1.34372	0.010 -1.93924	30.00000	Averaged
159 alpha-Chlorotoluene	1.86390	2.01466	0.010 -8.08818	30.00000	Averaged
161 1,2-Dichlorobenzene	1.26829	1.29696	0.010 -2.26050	30.00000	Averaged
165 1,2,4-Trichlorobenzene	1.21306	1.25596	0.010 -3.53673	30.00000	Averaged
166 Hexachlorobutadiene	0.88689	0.88891	0.010 -0.22838	30.00000	Averaged
29 Isopentane	1.83212	1.80052	0.010 1.72481	30.00000	Averaged
19 Butane	0.22676	0.24744	0.010 -9.12243	30.00000	Averaged
102 Methyl Cyclohexane	2.59023	2.73594	0.010 -5.62528	30.00000	Averaged
167 Naphthalene	1.74496	1.83715	0.010 -5.28332	30.00000	Averaged

Report Date: 04-Dec-2007 13:34

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/04Dec2007.b/t120402.d
 Lab Smp Id: CCV-1 Client Smp ID: CCV-1
 Inj Date : 04-DEC-2007 09:44
 Operator : sjr Inst ID: msdt.i
 Smp Info : 50mL #1576-92
 Misc Info : 200ppbv -> 50ppbv
 Comment :
 Method : /chem/msdt.i/04Dec2007.b/t14q1121b.m
 Meth Date : 04-Dec-2007 13:33 sruth Quant Type: ISTD
 Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 81 Bromochloromethane CAS #: 74-97-5									
13.858	13.858	(1.000)	130	355566	25.0000		80.00- 120.00	100.00	
13.858	13.858	(1.000)	128	284191			29.93- 129.93	79.93	
13.858	13.858	(1.000)	49	563618			108.51- 208.51	158.51	

* 97 1,4-Difluorobenzene CAS #: 540-36-3									
15.600	15.600	(1.000)	114	1769240	25.0000		80.00- 120.00	100.00	
15.600	15.600	(1.000)	88	291541			0.00- 66.48	16.48	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4									
20.798	20.798	(1.000)	117	1250441	25.0000		80.00- 120.00	100.00	
20.798	20.798	(1.000)	82	698709			4.93- 104.93	55.88	

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.937	14.937	(1.078)	65	617884	25.0000	26.958	80.00- 120.00	100.00	
14.937	14.937	(1.078)	67	354722			5.03- 105.03	57.41	

\$ 113 Toluene-d8 CAS #: 2037-26-5									
18.199	18.199	(1.167)	98	1514716	25.0000	25.291	80.00- 120.00	100.00	
18.199	18.199	(1.167)	70	161057			0.00- 61.02	10.63	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 113 Toluene-d8 (continued)									
18.199	18.199	(1.167)	100	1035061			19.45- 119.45	68.33	

\$ 137 Bromofluorobenzene									
						CAS #: 460-00-4			
22.789	22.789	(1.096)	174	769966	25.0000	24.512	80.00- 120.00	100.00	
22.789	22.789	(1.096)	95	989848			78.56- 178.56	128.56	
22.789	22.789	(1.096)	176	751782			47.64- 147.64	97.64	

11 Propylene									
						CAS #: 115-07-1			
5.812	5.812	(0.419)	41	457105	50.0000	48.248	80.00- 120.00	100.00	
5.812	5.812	(0.419)	42	321707			17.24- 117.24	70.38	
5.812	5.812	(0.419)	39	359919			27.83- 127.83	78.74	

12 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
5.923	5.923	(0.427)	85	2862539	50.0000	54.825	80.00- 120.00	100.00	
5.923	5.923	(0.427)	87	926974			0.00- 82.07	32.38	

16 Freon 114									
						CAS #: 76-14-2			
6.310	6.310	(0.455)	135	1836413	50.0000	54.236	80.00- 120.00	100.00	
6.310	6.310	(0.455)	137	582705			0.00- 81.55	31.73	

18 Chloromethane									
						CAS #: 74-87-3			
6.531	6.531	(0.471)	50	614234	50.0000	50.991	80.00- 120.00	100.00	
6.531	6.531	(0.471)	52	204871			0.00- 84.03	33.35	

20 Vinyl Chloride									
						CAS #: 75-01-4			
6.891	6.891	(0.497)	62	921304	50.0000	55.914	80.00- 120.00	100.00	
6.891	6.891	(0.497)	64	308046			0.00- 93.71	33.44	

22 1,3-Butadiene									
						CAS #: 106-99-0			
6.973	6.973	(0.503)	54	773807	50.0000	57.683	80.00- 120.00	100.00	
6.973	6.973	(0.503)	39	679934			54.52- 154.52	87.87	

25 Bromomethane									
						CAS #: 74-83-9			
7.914	7.914	(0.571)	94	905697	50.0000	60.698	80.00- 120.00	100.00	
7.914	7.914	(0.571)	96	848457			43.68- 143.68	93.68	

27 Chloroethane									
						CAS #: 75-00-3			
8.190	8.190	(0.591)	64	471676	50.0000	58.392	80.00- 120.00	100.00	
8.190	8.190	(0.591)	49	116801			0.00- 74.88	24.76	
8.190	8.190	(0.591)	66	152110			0.00- 80.84	32.25	

31 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
8.771	8.771	(0.633)	101	3753351	50.0000	55.388	80.00- 120.00	100.00	
8.771	8.771	(0.633)	103	2425197			14.61- 114.61	64.61	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
38 Ethanol						CAS #: 64-17-5			
9.241	9.241	(0.667)	45	364079	50.0000	47.143	80.00- 120.00	100.00	
9.241	9.241	(0.667)	43	83444			0.00- 72.67	22.92	
9.241	9.241	(0.667)	46	132731			0.00- 86.29	36.46	

42 Freon 113						CAS #: 76-13-1			
9.932	9.932	(0.717)	151	2271970	50.0000	55.645	80.00- 120.00	100.00	
9.932	9.932	(0.717)	153	1438351			13.31- 113.31	63.31	
9.932	9.932	(0.717)	101	2977586			81.06- 181.06	131.06	

43 1,1-Dichloroethene						CAS #: 75-35-4			
10.043	10.043	(0.725)	61	1630893	50.0000	52.751	80.00- 120.00	100.00	
10.043	10.043	(0.725)	96	1051792			14.49- 114.49	64.49	
10.043	10.043	(0.725)	98	666166			0.00- 90.85	40.85	

45 Acetone						CAS #: 67-64-1			
10.181	10.181	(0.735)	58	552918	50.0000	49.016	80.00- 120.00	100.00	
10.181	10.181	(0.735)	43	1585765			259.05- 359.05	286.80	

46 2-Propanol						CAS #: 67-63-0			
10.374	10.374	(0.749)	45	2690065	50.0000	47.449	80.00- 120.00	100.00	
10.374	10.374	(0.749)	43	601492			0.00- 73.80	22.36	
10.374	10.374	(0.749)	59	120518			0.00- 54.08	4.48	

47 Carbon Disulfide						CAS #: 75-15-0			
10.540	10.540	(0.761)	76	2905460	50.0000	54.878	80.00- 120.00	100.00	

51 3-Chloropropene						CAS #: 107-05-1			
10.817	10.817	(0.781)	76	566903	50.0000	51.656	80.00- 120.00	100.00	
10.817	10.817	(0.781)	41	1146486			185.00- 285.00	202.24	

54 Methylene Chloride						CAS #: 75-09-2			
11.093	11.093	(0.800)	49	897830	50.0000	48.268	80.00- 120.00	100.00	
11.093	11.093	(0.800)	84	871930			47.12- 147.12	97.12	
11.093	11.093	(0.800)	51	283913			0.00- 81.08	31.62	

60 MTBE						CAS #: 1634-04-4			
11.453	11.453	(0.826)	73	1566686	50.0000	53.840	80.00- 120.00	100.00	
11.453	11.453	(0.826)	57	290349			0.00- 68.53	18.53	
11.453	11.453	(0.826)	41	276059			0.00- 69.31	17.62	

61 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.536	11.536	(0.832)	96	1309198	50.0000	51.785	80.00- 120.00	100.00	
11.536	11.536	(0.832)	61	1747801			83.50- 183.50	133.50	
11.536	11.536	(0.832)	98	843437			11.49- 111.49	64.42	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
65 Hexane						CAS #: 110-54-3			
11.895	11.895	(0.858)	57	2265728	50.0000	54.639	80.00- 120.00	100.00	
11.895	11.895	(0.858)	43	1234099			6.67- 106.67	54.47	
11.895	11.895	(0.858)	86	419287			0.00- 66.53	18.51	

69 Vinyl Acetate						CAS #: 108-05-4			
12.337	12.337	(0.890)	86	378792	50.0000	55.821	80.00- 120.00	100.00	
12.337	12.337	(0.890)	43	3156418			869.92- 969.92	833.29	

70 1,1-Dichloroethane						CAS #: 75-34-3			
12.365	12.365	(0.892)	63	2271663	50.0000	52.877	80.00- 120.00	100.00	
12.365	12.365	(0.892)	65	738538			0.00- 82.51	32.51	

75 2-Butanone						CAS #: 78-93-3			
13.388	13.388	(0.966)	72	805638	50.0000	57.586	80.00- 120.00	100.00	
13.388	13.388	(0.966)	43	3021500			325.04- 425.04	375.04	
13.388	13.388	(0.966)	57	228890			0.00- 79.31	28.41	

76 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.416	13.416	(0.968)	61	1657513	50.0000	53.827	80.00- 120.00	100.00	
13.416	13.416	(0.968)	96	1304793			28.72- 128.72	78.72	
13.416	13.416	(0.968)	98	832411			0.22- 100.22	50.22	

80 Tetrahydrofuran						CAS #: 109-99-9			
13.858	13.858	(1.000)	42	1177218	50.0000	50.750	80.00- 120.00	100.00	
13.858	13.858	(1.000)	71	665670			6.55- 106.55	56.55	
13.858	13.858	(1.000)	72	705048			4.67- 104.67	59.89	

82 Chloroform						CAS #: 67-66-3			
13.941	13.941	(1.006)	83	2765914	50.0000	57.743	80.00- 120.00	100.00	
13.941	13.941	(1.006)	85	1829973			16.16- 116.16	66.16	

83 1,1,1-Trichloroethane						CAS #: 71-55-6			
14.273	14.273	(1.030)	97	2671380	50.0000	52.659	80.00- 120.00	100.00	
14.273	14.273	(1.030)	99	1725124			14.58- 114.58	64.58	

85 Cyclohexane						CAS #: 110-82-7			
14.301	14.301	(1.032)	84	1527011	50.0000	53.667	80.00- 120.00	100.00	
14.301	14.301	(1.032)	56	1454329			45.24- 145.24	95.24	
14.301	14.301	(1.032)	41	705903			0.00- 96.23	46.23	

87 Carbon Tetrachloride						CAS #: 56-23-5			
14.522	14.522	(1.048)	119	2514001	50.0000	52.799	80.00- 120.00	100.00	
14.522	14.522	(1.048)	117	2664857			56.00- 156.00	106.00	

89 2,2,4-Trimethylpentane						CAS #: 540-84-1			
14.881	14.881	(1.074)	57	5056444	50.0000	50.038	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
89 2,2,4-Trimethylpentane (continued)									
14.881	14.881	(1.074)	56	1630725			0.00- 82.34	32.25	
14.881	14.881	(1.074)	41	1214914			0.00- 76.30	24.03	

91 Benzene CAS #: 71-43-2									
14.964	14.964	(0.959)	78	3859991	50.0000	51.138	80.00- 120.00	100.00	
14.937	14.937	(0.957)	77	882881			0.00- 72.49	22.87	

93 1,2-Dichloroethane CAS #: 107-06-2									
15.075	15.075	(0.966)	62	1823870	50.0000	51.394	80.00- 120.00	100.00	
15.075	15.075	(0.966)	64	592598			0.00- 84.21	32.49	

94 Heptane CAS #: 142-82-5									
15.185	15.185	(0.973)	71	1439159	50.0000	52.842	80.00- 120.00	100.00	
15.158	15.158	(0.972)	43	1761473			86.68- 186.68	122.40	
15.158	15.158	(0.972)	57	1128933			32.20- 132.20	78.44	

101 Trichloroethene CAS #: 79-01-6									
16.070	16.070	(1.030)	95	1802894	50.0000	52.320	80.00- 120.00	100.00	
16.070	16.070	(1.030)	130	1691891			43.84- 143.84	93.84	
16.070	16.070	(1.030)	97	1146830			13.61- 113.61	63.61	

104 1,2-Dichloropropane CAS #: 78-87-5									
16.568	16.568	(1.062)	63	1266221	50.0000	49.060	80.00- 120.00	100.00	
16.568	16.568	(1.062)	62	898700			20.97- 120.97	70.97	
16.568	16.568	(1.062)	41	620470			0.00- 99.00	49.00	

106 1,4-Dioxane CAS #: 123-91-1									
16.678	16.678	(1.069)	88	1179255	50.0000	52.678	80.00- 120.00	100.00	
16.678	16.678	(1.069)	58	639204			4.20- 104.20	54.20	
16.678	16.678	(1.069)	57	220603			0.00- 69.74	18.71	

107 Bromodichloromethane CAS #: 75-27-4									
16.983	16.983	(1.089)	83	2959245	50.0000	52.632	80.00- 120.00	100.00	
16.983	16.983	(1.089)	85	1909865			14.54- 114.54	64.54	

110 cis-1,3-Dichloropropene CAS #: 10061-01-5									
17.784	17.784	(1.140)	75	2216563	50.0000	53.907	80.00- 120.00	100.00	
17.784	17.784	(1.140)	77	703750			0.00- 81.75	31.75	
17.784	17.784	(1.140)	39	858209			0.00- 88.72	38.72	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.950	17.950	(1.151)	58	1349092	50.0000	52.435	80.00- 120.00	100.00	
17.950	17.950	(1.151)	43	2836014			169.12- 269.12	210.22	
17.950	17.950	(1.151)	85	699864			0.58- 100.58	51.88	

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

114 Toluene						CAS #: 108-88-3			
18.337	18.337	(1.175)	91	4286150	50.0000	51.179	80.00- 120.00	100.00	
18.310	18.310	(1.174)	92	2632288			11.41- 111.41	61.41	

116 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
18.752	18.752	(0.902)	75	2304362	50.0000	54.665	80.00- 120.00	100.00	
18.752	18.752	(0.902)	77	739461			0.00- 82.09	32.09	
18.752	18.752	(0.902)	39	826177			0.00- 85.85	35.85	

117 1,1,2-Trichloroethane						CAS #: 79-00-5			
19.112	19.112	(0.919)	97	1604133	50.0000	54.327	80.00- 120.00	100.00	
19.112	19.112	(0.919)	99	1012116			13.09- 113.09	63.09	
19.112	19.112	(0.919)	83	1339961			33.53- 133.53	83.53	

120 Tetrachloroethene						CAS #: 127-18-4			
19.277	19.277	(0.927)	166	2093702	50.0000	53.027	80.00- 120.00	100.00	
19.277	19.277	(0.927)	129	1460314			19.75- 119.75	69.75	
19.277	19.277	(0.927)	131	1386666			16.23- 116.23	66.23	

121 2-Hexanone						CAS #: 591-78-6			
19.416	19.416	(0.934)	58	1911885	50.0000	49.931	80.00- 120.00	100.00	
19.416	19.416	(0.934)	43	2994273			106.61- 206.61	156.61	
19.416	19.416	(0.934)	100	431428			0.00- 71.95	22.57	

122 Dibromochloromethane						CAS #: 124-48-1			
19.803	19.803	(0.952)	129	2617902	50.0000	53.280	80.00- 120.00	100.00	
19.803	19.803	(0.952)	127	2022919			26.41- 126.41	77.27	

123 1,2-Dibromoethane						CAS #: 106-93-4			
20.052	20.052	(0.964)	107	2525389	50.0000	53.200	80.00- 120.00	100.00	
20.052	20.052	(0.964)	109	2357402			43.35- 143.35	93.35	

127 Chlorobenzene						CAS #: 108-90-7			
20.853	20.853	(1.003)	112	3369760	50.0000	50.909	80.00- 120.00	100.00	
20.853	20.853	(1.003)	114	1049989			0.00- 81.16	31.16	
20.853	20.853	(1.003)	77	2040273			10.55- 110.55	60.55	

128 Ethyl Benzene						CAS #: 100-41-4			
20.936	20.936	(1.007)	106	1770217	50.0000	51.699	80.00- 120.00	100.00	
20.936	20.936	(1.007)	91	5564179			265.06- 365.06	314.32	

129 m,p-Xylene						CAS #: 108-38-3			
21.130	21.130	(1.016)	106	2224984	50.0000	52.299	80.00- 120.00	100.00	
21.130	21.130	(1.016)	91	4385778			147.41- 247.41	197.12	

130 o-Xylene						CAS #: 95-47-6			
21.849	21.849	(1.051)	106	2039097	50.0000	52.017	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 o-Xylene (continued)									
21.849	21.849	(1.051)	91	4257320			158.78- 258.78	208.78	

131 Styrene CAS #: 100-42-5									
21.876	21.876	(1.052)	104	3531350	50.0000	56.992	80.00- 120.00	100.00	
21.876	21.876	(1.052)	78	1737599			0.00- 99.20	49.20	

133 Bromoform CAS #: 75-25-2									
22.291	22.291	(1.072)	173	2445613	50.0000	52.596	80.00- 120.00	100.00	
22.291	22.291	(1.072)	171	1250350			1.13- 101.13	51.13	

134 Cumene CAS #: 98-82-8									
22.430	22.430	(1.078)	105	5755315	50.0000	55.908	80.00- 120.00	100.00	
22.430	22.430	(1.078)	120	1490054			0.00- 75.99	25.89	
22.402	22.402	(1.077)	51	432911			9.74- 109.74	7.52	

140 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.010	23.010	(1.106)	83	3233528	50.0000	51.835	80.00- 120.00	100.00	
23.010	23.010	(1.106)	85	2100524			14.96- 114.96	64.96	

142 Propylbenzene CAS #: 103-65-1									
23.093	23.093	(1.110)	91	7090550	50.0000	52.264	80.00- 120.00	100.00	
23.121	23.121	(1.112)	120	1569223			0.00- 72.67	22.13	
23.121	23.121	(1.112)	105	259278			0.00- 53.69	3.66	

145 4-Ethyltoluene CAS #: 622-96-8									
23.287	23.287	(1.120)	105	6054107	50.0000	52.470	80.00- 120.00	100.00	
23.287	23.287	(1.120)	120	1817026			0.00- 80.01	30.01	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.397	23.397	(1.125)	105	4953578	50.0000	51.851	80.00- 120.00	100.00	
23.397	23.397	(1.125)	120	2443964			1.60- 101.60	49.34	

150 1,2,4-Trimethylbenzene CAS #: 95-63-6									
24.033	24.033	(1.156)	105	4791460	50.0000	52.583	80.00- 120.00	100.00	
24.033	24.033	(1.156)	120	2211534			0.00- 96.88	46.16	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
24.586	24.586	(1.182)	146	3216895	50.0000	50.240	80.00- 120.00	100.00	
24.586	24.586	(1.182)	148	2065897			14.03- 114.03	64.22	
24.586	24.586	(1.182)	111	1350935			0.00- 91.33	41.99	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
24.724	24.724	(1.189)	146	3360491	50.0000	50.970	80.00- 120.00	100.00	
24.724	24.724	(1.189)	148	2137095			15.04- 115.04	63.59	
24.724	24.724	(1.189)	111	1344189			0.00- 89.92	40.00	

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

159	alpha-Chlorotoluene					CAS #: 100-44-7			
24.946	24.946	(1.199)	91	5038416	50.0000	54.044	80.00- 120.00	100.00	
24.946	24.946	(1.199)	126	964285			0.00- 70.12	19.14	

161	1,2-Dichlorobenzene					CAS #: 95-50-1			
25.360	25.360	(1.219)	146	3243544	50.0000	51.130	80.00- 120.00	100.00	
25.360	25.360	(1.219)	148	2085273			14.29- 114.29	64.29	
25.360	25.360	(1.219)	111	1404177			0.00- 93.29	43.29	

165	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
28.153	28.153	(1.354)	180	3141019	50.0000	51.768	80.00- 120.00	100.00	
28.153	28.153	(1.354)	182	2966346			44.44- 144.44	94.44	

166	Hexachlorobutadiene					CAS #: 87-68-3			
28.319	28.319	(1.362)	225	2223064	50.0000	50.114	80.00- 120.00	100.00	
28.319	28.319	(1.362)	223	1386059			14.10- 114.10	62.35	

29	Isopentane					CAS #: 78-78-4			
8.245	8.245	(0.595)	43	1280407	50.0000	49.138	80.00- 120.00	100.00	
8.245	8.245	(0.595)	57	1026916			26.21- 126.21	80.20	

19	Butane					CAS #: 106-97-8			
6.808	6.808	(0.491)	58	175966	50.0000	54.561	80.00- 120.00	100.00	
6.808	6.808	(0.491)	43	1201761			668.04- 768.04	682.95	

102	Methyl Cyclohexane					CAS #: 108-87-2			
16.347	16.347	(1.180)	83	1945615	50.0000	52.813	80.00- 120.00	100.00	
16.347	16.347	(1.180)	98	890352			0.00- 92.45	45.76	
16.347	16.347	(1.180)	55	1271411			18.10- 118.10	65.35	

167	Naphthalene					CAS #: 91-20-3			
28.678	28.678	(1.379)	128	4594489	50.0000	52.642	80.00- 120.00	100.00	
28.678	28.678	(1.379)	127	563656			0.00- 62.43	12.27	

Report Date: 04-Dec-2007 13:34

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 04-DEC-2007

Lab File ID: t120402.d

Calibration Time: 11:23

Lab Smp Id: CCV-1

Client Smp ID: CCV-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m

Misc Info: 200ppbv -> 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	331730	199038	464422	355566	7.19
97 1,4-Difluorobenze	1668782	1001269	2336295	1769240	6.02
126 Chlorobenzene-d5	1226112	735667	1716557	1250441	1.98

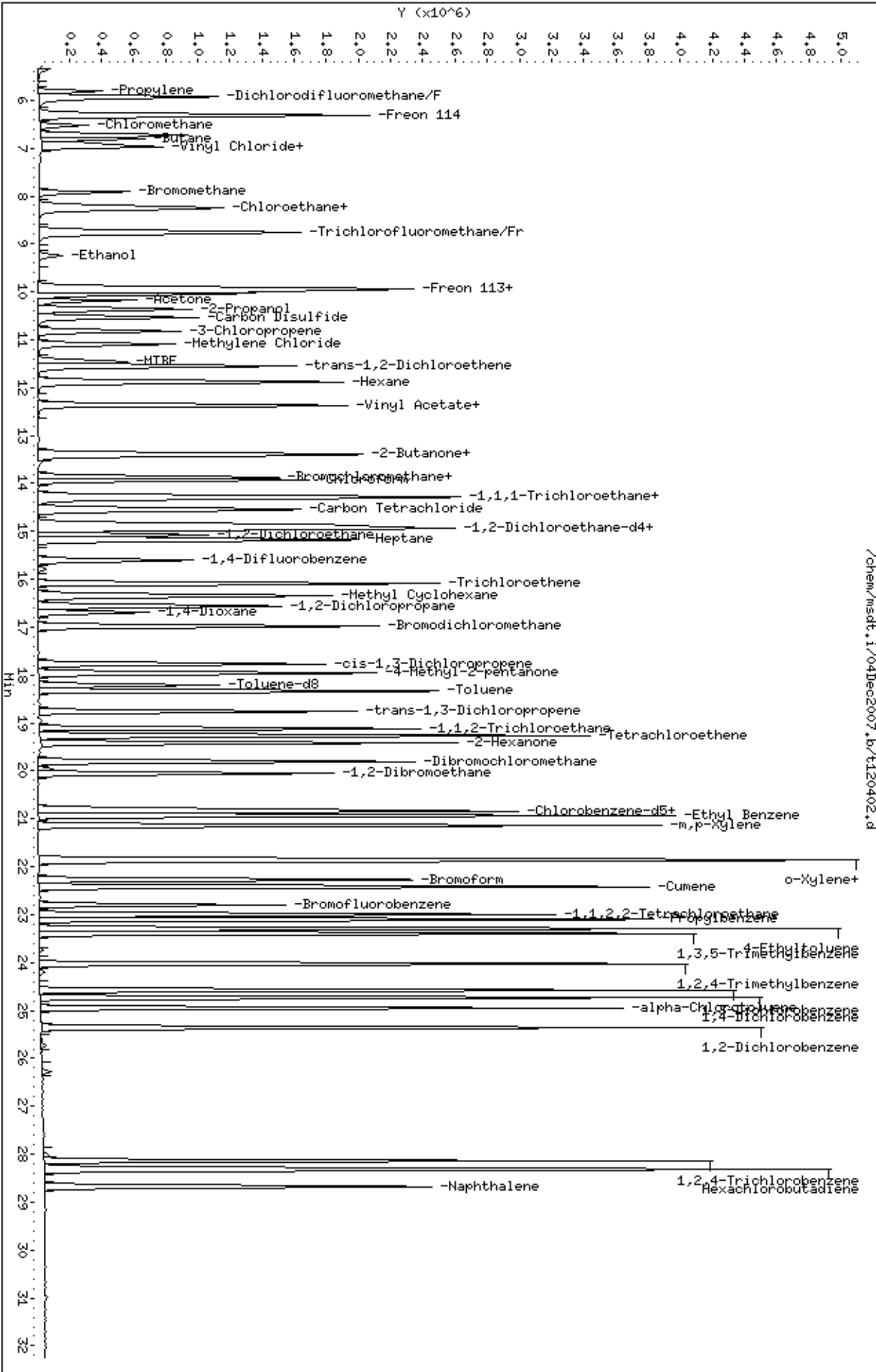
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.86	13.53	14.19	13.86	0.00
97 1,4-Difluorobenze	15.60	15.27	15.93	15.60	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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.





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0711487-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/07 10:24 AM

Compound	%Recovery
Freon 12	107
Freon 114	110
Vinyl Chloride	112
Bromomethane	123
Chloroethane	116
Freon 11	117
1,1-Dichloroethene	124
Freon 113	134 Q
Methylene Chloride	107
1,1-Dichloroethane	118
cis-1,2-Dichloroethene	109
Chloroform	127
1,1,1-Trichloroethane	114
Carbon Tetrachloride	113
Benzene	110
1,2-Dichloroethane	109
Trichloroethene	111
1,2-Dichloropropane	101
cis-1,3-Dichloropropene	110
Toluene	110
trans-1,3-Dichloropropene	117
1,1,2-Trichloroethane	116
Tetrachloroethene	113
1,2-Dibromoethane (EDB)	107
Chlorobenzene	107
Ethyl Benzene	107
m,p-Xylene	108
o-Xylene	110
Styrene	110
1,1,2,2-Tetrachloroethane	103
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	103
1,3-Butadiene	114
Hexane	118
Cyclohexane	116



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0711487-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	t120403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/07 10:24 AM

Compound	%Recovery
Heptane	110
Bromodichloromethane	110
Dibromochloromethane	113
Cumene	121
Propylbenzene	112
Chloromethane	97
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	91
Acetone	101
Carbon Disulfide	114
2-Propanol	64
trans-1,2-Dichloroethene	112
2-Butanone (Methyl Ethyl Ketone)	111
Tetrahydrofuran	92
1,4-Dioxane	84
4-Methyl-2-pentanone	78
2-Hexanone	69
Bromoform	111
4-Ethyltoluene	111
Ethanol	87
Methyl tert-butyl ether	129
3-Chloropropene	113
2,2,4-Trimethylpentane	109
Naphthalene	89

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 04Dec2007
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Level: LOW Operator: sjr
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 2926Spectra.spk Quant Type: ISTD
 Sublist File: AT04ENSR.sub
 Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m
 Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	53.745	107.49	70-130
16 Freon 114	50.000	55.110	110.22	70-130
18 Chloromethane	50.000	48.716	97.43	70-130
20 Vinyl Chloride	50.000	56.029	112.06	70-130
22 1,3-Butadiene	50.000	56.965	113.93	60-140
25 Bromomethane	50.000	61.376	122.75	70-130
27 Chloroethane	50.000	58.039	116.08	70-130
31 Trichlorofluoromet	50.000	58.610	117.22	70-130
38 Ethanol	50.000	43.440	86.88	60-140
42 Freon 113	50.000	67.260	134.52*	70-130
43 1,1-Dichloroethene	50.000	61.775	123.55	70-130
45 Acetone	50.000	50.658	101.32	60-140
47 Carbon Disulfide	50.000	56.774	113.55	60-140
46 2-Propanol	50.000	31.874	63.75	60-140
54 Methylene Chloride	50.000	53.464	106.93	70-130
60 MTBE	50.000	64.593	129.19	60-140
61 trans-1,2-Dichloro	50.000	56.157	112.31	60-140
65 Hexane	50.000	58.823	117.65	60-140
69 Vinyl Acetate	50.000	62.246	124.49	60-140
70 1,1-Dichloroethane	50.000	59.255	118.51	70-130
76 cis-1,2-Dichloroet	50.000	54.623	109.25	70-130
75 2-Butanone	50.000	55.349	110.70	60-140
80 Tetrahydrofuran	50.000	45.803	91.61	60-140
82 Chloroform	50.000	63.411	126.82	70-130
85 Cyclohexane	50.000	58.173	116.35	60-140
83 1,1,1-Trichloroeth	50.000	57.135	114.27	70-130
87 Carbon Tetrachlori	50.000	56.701	113.40	70-130
91 Benzene	50.000	54.881	109.76	70-130
93 1,2-Dichloroethane	50.000	54.309	108.62	70-130
94 Heptane	50.000	54.895	109.79	60-140
101 Trichloroethene	50.000	55.403	110.81	70-130
104 1,2-Dichloropropan	50.000	50.422	100.84	70-130
106 1,4-Dioxane	50.000	42.106	84.21	60-140

Report Date: 04-Dec-2007 10:52

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 Bromodichlorometha	50.000	55.283	110.57	60-140
110 cis-1,3-Dichloropr	50.000	54.840	109.68	70-130
111 4-Methyl-2-pentano	50.000	38.898	77.80	60-140
114 Toluene	50.000	55.080	110.16	70-130
116 trans-1,3-Dichloro	50.000	58.690	117.38	70-130
117 1,1,2-Trichloroeth	50.000	57.893	115.79	70-130
120 Tetrachloroethene	50.000	56.605	113.21	70-130
121 2-Hexanone	50.000	34.407	68.81	60-140
122 Dibromochlorometha	50.000	56.418	112.84	60-140
123 1,2-Dibromoethane	50.000	53.735	107.47	70-130
127 Chlorobenzene	50.000	53.407	106.81	70-130
128 Ethyl Benzene	50.000	53.562	107.12	70-130
129 m,p-Xylene	50.000	53.976	107.95	70-130
130 o-Xylene	50.000	55.145	110.29	70-130
131 Styrene	50.000	54.780	109.56	70-130
133 Bromoform	50.000	55.449	110.90	60-140
140 1,1,2,2-Tetrachlor	50.000	51.542	103.08	70-130
145 4-Ethyltoluene	50.000	55.327	110.65	60-140
147 1,3,5-Trimethylben	50.000	52.755	105.51	70-130
150 1,2,4-Trimethylben	50.000	53.282	106.56	70-130
155 1,3-Dichlorobenzen	50.000	52.402	104.80	70-130
156 1,4-Dichlorobenzen	50.000	52.084	104.17	70-130
159 alpha-Chlorotoluen	50.000	58.620	117.24	70-130
161 1,2-Dichlorobenzen	50.000	51.345	102.69	70-130
165 1,2,4-Trichloroben	50.000	41.555	83.11	70-130
166 Hexachlorobutadien	50.000	45.300	90.60	70-130
142 Propylbenzene	50.000	55.832	111.66	60-140
134 Cumene	50.000	60.570	121.14	60-140
51 3-Chloropropene	50.000	56.415	112.83	60-140
89 2,2,4-Trimethylpen	50.000	54.677	109.35	60-140
19 Butane	50.000	58.591	117.18	70-130
29 Isopentane	50.000	51.350	102.70	70-130
102 Methyl Cyclohexane	50.000	58.145	116.29	70-130
11 Propylene	50.000	48.787	97.57	60-140
167 Naphthalene	50.000	44.433	88.87	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 90 1,2-Dichloroethane	25.000	26.821	107.28	70-130
\$ 113 Toluene-d8	25.000	24.304	97.22	70-130
\$ 137 Bromofluorobenzene	25.000	24.945	99.78	70-130

Report Date: 04-Dec-2007 10:52

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/04Dec2007.b/t120403.d
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Inj Date : 04-DEC-2007 10:24
 Operator : sjr Inst ID: msdt.i
 Smp Info : 50mL #1576-108
 Misc Info : 200ppbv -> 50ppbv
 Comment :
 Method : /chem/msdt.i/04Dec2007.b/t14q1121b.m
 Meth Date : 04-Dec-2007 10:49 sruth Quant Type: ISTD
 Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				(PPBV)	(PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====
* 81 Bromochloromethane CAS #: 74-97-5								
13.858	13.858	(1.000)	130	376079	25.0000	80.00- 120.00	100.00	
13.858	13.858	(1.000)	128	291717		29.93- 129.93	77.57	
13.858	13.858	(1.000)	49	611059		108.51- 208.51	162.48	

* 97 1,4-Difluorobenzene CAS #: 540-36-3								
15.628	15.600	(1.000)	114	1905131	25.0000	80.00- 120.00	100.00	
15.600	15.600	(1.000)	88	304999		0.00- 66.48	16.01	

* 126 Chlorobenzene-d5 CAS #: 3114-55-4								
20.798	20.798	(1.000)	117	1264162	25.0000	80.00- 120.00	100.00	
20.798	20.798	(1.000)	82	711583		4.93- 104.93	56.29	

\$ 90 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
14.936	14.937	(1.078)	65	650221	26.8212	26.821 80.00- 120.00	100.00	
14.936	14.937	(1.078)	67	381753		5.03- 105.03	58.71	

\$ 113 Toluene-d8 CAS #: 2037-26-5								
18.199	18.199	(1.165)	98	1567393	24.3043	24.304 80.00- 120.00	100.00	
18.199	18.199	(1.165)	70	171990		0.00- 61.02	10.97	

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPEV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 113 Toluene-d8 (continued)

18.199	18.199	(1.165)	100	1093853			19.45- 119.45	69.79
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\$ 137 Bromofluorobenzene

CAS #: 460-00-4

22.789	22.789	(1.096)	174	792145	24.9450	24.945	80.00- 120.00	100.00
22.789	22.789	(1.096)	95	1024449			78.56- 178.56	129.33
22.789	22.789	(1.096)	176	760182			47.64- 147.64	95.97

11 Propylene

CAS #: 115-07-1

5.812	5.812	(0.419)	41	488873	48.7866	48.787	80.00- 120.00	100.00
5.812	5.812	(0.419)	42	340213			17.24- 117.24	69.59
5.812	5.812	(0.419)	39	379938			27.83- 127.83	77.72

12 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

5.923	5.923	(0.427)	85	2968017	53.7446	53.745	80.00- 120.00	100.00
5.923	5.923	(0.427)	87	962193			0.00- 82.07	32.42

16 Freon 114

CAS #: 76-14-2

6.310	6.310	(0.455)	135	1973684	55.1104	55.110	80.00- 120.00	100.00
6.310	6.310	(0.455)	137	632714			0.00- 81.55	32.06

18 Chloromethane

CAS #: 74-87-3

6.531	6.531	(0.471)	50	620694	48.7165	48.716	80.00- 120.00	100.00
6.531	6.531	(0.471)	52	207605			0.00- 84.03	33.45

20 Vinyl Chloride

CAS #: 75-01-4

6.890	6.891	(0.497)	62	976449	56.0288	56.029	80.00- 120.00	100.00
6.890	6.891	(0.497)	64	310868			0.00- 93.71	31.84

22 1,3-Butadiene

CAS #: 106-99-0

6.946	6.973	(0.501)	54	808263	56.9650	56.965	80.00- 120.00	100.00
6.946	6.973	(0.501)	39	719572			54.52- 154.52	89.03

25 Bromomethane

CAS #: 74-83-9

7.913	7.914	(0.571)	94	968641	61.3757	61.376	80.00- 120.00	100.00
7.913	7.914	(0.571)	96	903774			43.68- 143.68	93.30

27 Chloroethane

CAS #: 75-00-3

8.190	8.190	(0.591)	64	495871	58.0386	58.039	80.00- 120.00	100.00
8.190	8.190	(0.591)	49	121753			0.00- 74.88	24.55
8.190	8.190	(0.591)	66	167086			0.00- 80.84	33.70

31 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

8.770	8.771	(0.633)	101	4200858	58.6105	58.610	80.00- 120.00	100.00
8.770	8.771	(0.633)	103	2709815			14.61- 114.61	64.51

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Ethanol						CAS #: 64-17-5			
9.241	9.241	(0.667)	45	354836	43.4404	43.440	80.00- 120.00	100.00	
9.241	9.241	(0.667)	43	78449			0.00- 72.67	22.11	
9.241	9.241	(0.667)	46	133486			0.00- 86.29	37.62	

42 Freon 113						CAS #: 76-13-1			
9.932	9.932	(0.717)	151	2904624	67.2595	67.260	80.00- 120.00	100.00(R)	
9.932	9.932	(0.717)	153	1842023			13.31- 113.31	63.42	
9.932	9.932	(0.717)	101	3829070			81.06- 181.06	131.83	

43 1,1-Dichloroethene						CAS #: 75-35-4			
10.042	10.043	(0.725)	61	2020059	61.7746	61.775	80.00- 120.00	100.00	
10.042	10.043	(0.725)	96	1317912			14.49- 114.49	65.24	
10.042	10.043	(0.725)	98	852998			0.00- 90.85	42.23	

45 Acetone						CAS #: 67-64-1			
10.181	10.181	(0.735)	58	604408	50.6585	50.658	80.00- 120.00	100.00	
10.181	10.181	(0.735)	43	1740765			259.05- 359.05	288.01	

46 2-Propanol						CAS #: 67-63-0			
10.374	10.374	(0.749)	45	1911301	31.8738	31.874	80.00- 120.00	100.00	
10.374	10.374	(0.749)	43	447832			0.00- 73.80	23.43	
10.374	10.374	(0.749)	59	84398			0.00- 54.08	4.42	

47 Carbon Disulfide						CAS #: 75-15-0			
10.540	10.540	(0.761)	76	3179213	56.7738	56.774	80.00- 120.00	100.00	

51 3-Chloropropene						CAS #: 107-05-1			
10.817	10.817	(0.781)	76	654843	56.4150	56.415	80.00- 120.00	100.00	
10.817	10.817	(0.781)	41	1293487			185.00- 285.00	197.53	

54 Methylene Chloride						CAS #: 75-09-2			
11.093	11.093	(0.800)	49	1051860	53.4646	53.464	80.00- 120.00	100.00	
11.093	11.093	(0.800)	84	1050716			47.12- 147.12	99.89	
11.093	11.093	(0.800)	51	331469			0.00- 81.08	31.51	

60 MTBE						CAS #: 1634-04-4			
11.452	11.453	(0.826)	73	1987996	64.5928	64.593	80.00- 120.00	100.00	
11.452	11.453	(0.826)	57	372344			0.00- 68.53	18.73	
11.452	11.453	(0.826)	41	328823			0.00- 69.31	16.54	

61 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.535	11.536	(0.832)	96	1501655	56.1574	56.157	80.00- 120.00	100.00	
11.535	11.536	(0.832)	61	1976263			83.50- 183.50	131.61	
11.535	11.536	(0.832)	98	954668			11.49- 111.49	63.57	

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

65 Hexane					CAS #: 110-54-3				
11.895	11.895	(0.858)	57	2579972	58.8231	58.823	80.00- 120.00	100.00	
11.895	11.895	(0.858)	43	1397274			6.67- 106.67	54.16	
11.895	11.895	(0.858)	86	479066			0.00- 66.53	18.57	

69 Vinyl Acetate					CAS #: 108-05-4				
12.365	12.337	(0.892)	86	446754	62.2457	62.246	80.00- 120.00	100.00	
12.337	12.337	(0.890)	43	3650080			869.92- 969.92	817.02	

70 1,1-Dichloroethane					CAS #: 75-34-3				
12.365	12.365	(0.892)	63	2692530	59.2546	59.255	80.00- 120.00	100.00	
12.365	12.365	(0.892)	65	882087			0.00- 82.51	32.76	

75 2-Butanone					CAS #: 78-93-3				
13.388	13.388	(0.966)	72	819020	55.3492	55.349	80.00- 120.00	100.00	
13.388	13.388	(0.966)	43	2480462			325.04- 425.04	302.86	
13.388	13.388	(0.966)	57	229690			0.00- 79.31	28.04	

76 cis-1,2-Dichloroethene					CAS #: 156-59-2				
13.416	13.416	(0.968)	61	1779076	54.6230	54.623	80.00- 120.00	100.00	
13.416	13.416	(0.968)	96	1500258			28.72- 128.72	84.33	
13.416	13.416	(0.968)	98	975387			0.22- 100.22	54.83	

80 Tetrahydrofuran					CAS #: 109-99-9				
13.858	13.858	(1.000)	42	1123749	45.8028	45.803	80.00- 120.00	100.00	
13.858	13.858	(1.000)	71	639627			6.55- 106.55	56.92	
13.858	13.858	(1.000)	72	692642			4.67- 104.67	61.64	

82 Chloroform					CAS #: 67-66-3				
13.941	13.941	(1.006)	83	3212641	63.4114	63.411	80.00- 120.00	100.00	
13.941	13.941	(1.006)	85	2096915			16.16- 116.16	65.27	

83 1,1,1-Trichloroethane					CAS #: 71-55-6				
14.273	14.273	(1.030)	97	3065694	57.1353	57.135	80.00- 120.00	100.00	
14.273	14.273	(1.030)	99	1975555			14.58- 114.58	64.44	

85 Cyclohexane					CAS #: 110-82-7				
14.300	14.301	(1.032)	84	1750712	58.1728	58.173	80.00- 120.00	100.00	
14.300	14.301	(1.032)	56	1643952			45.24- 145.24	93.90	
14.300	14.301	(1.032)	41	789592			0.00- 96.23	45.10	

87 Carbon Tetrachloride					CAS #: 56-23-5				
14.549	14.522	(1.050)	119	2855565	56.7013	56.701	80.00- 120.00	100.00	
14.549	14.522	(1.050)	117	3045100			56.00- 156.00	106.64	

89 2,2,4-Trimethylpentane					CAS #: 540-84-1				
14.881	14.881	(1.074)	57	5843986	54.6774	54.677	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
89 2,2,4-Trimethylpentane (continued)									
14.881	14.881	(1.074)	56	1882086			0.00- 82.34	32.21	
14.881	14.881	(1.074)	41	1383662			0.00- 76.30	23.68	

91 Benzene CAS #: 71-43-2									
14.964	14.964	(0.958)	78	4460653	54.8807	54.881	80.00- 120.00	100.00	
14.964	14.964	(0.958)	77	1011245			0.00- 72.49	22.67	

93 1,2-Dichloroethane CAS #: 107-06-2									
15.075	15.075	(0.965)	62	2075326	54.3086	54.309	80.00- 120.00	100.00	
15.075	15.075	(0.965)	64	673505			0.00- 84.21	32.45	

94 Heptane CAS #: 142-82-5									
15.185	15.185	(0.972)	71	1609883	54.8948	54.895	80.00- 120.00	100.00	
15.185	15.185	(0.972)	43	1991463			86.68- 186.68	123.70	
15.185	15.185	(0.972)	57	1283629			32.20- 132.20	79.73	

101 Trichloroethene CAS #: 79-01-6									
16.070	16.070	(1.028)	95	2055769	55.4028	55.403	80.00- 120.00	100.00	
16.070	16.070	(1.028)	130	1879590			43.84- 143.84	91.43	
16.070	16.070	(1.028)	97	1313586			13.61- 113.61	63.90	

104 1,2-Dichloropropane CAS #: 78-87-5									
16.568	16.568	(1.060)	63	1401315	50.4216	50.422	80.00- 120.00	100.00	
16.568	16.568	(1.060)	62	1009539			20.97- 120.97	72.04	
16.568	16.568	(1.060)	41	683931			0.00- 99.00	48.81	

106 1,4-Dioxane CAS #: 123-91-1									
16.678	16.678	(1.067)	88	1014986	42.1062	42.106	80.00- 120.00	100.00	
16.678	16.678	(1.067)	58	548350			4.20- 104.20	54.03	
16.678	16.678	(1.067)	57	192035			0.00- 69.74	18.92	

107 Bromodichloromethane CAS #: 75-27-4									
16.982	16.983	(1.087)	83	3347020	55.2832	55.283	80.00- 120.00	100.00	
16.982	16.983	(1.087)	85	2170166			14.54- 114.54	64.84	

110 cis-1,3-Dichloropropene CAS #: 10061-01-5									
17.784	17.784	(1.138)	75	2428150	54.8403	54.840	80.00- 120.00	100.00	
17.784	17.784	(1.138)	77	779491			0.00- 81.75	32.10	
17.784	17.784	(1.138)	39	947934			0.00- 88.72	39.04	

111 4-Methyl-2-pentanone CAS #: 108-10-1									
17.950	17.950	(1.149)	58	1077668	38.8978	38.898	80.00- 120.00	100.00	
17.950	17.950	(1.149)	43	2292276			169.12- 269.12	212.71	
17.978	17.950	(1.150)	85	559952			0.58- 100.58	51.96	

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

114	Toluene					CAS #: 108-88-3			
18.337	18.337	(1.173)	91	4967190	55.0801	55.080	80.00- 120.00	100.00	
18.337	18.337	(1.173)	92	3033542			11.41- 111.41	61.07	

116	trans-1,3-Dichloropropene					CAS #: 10061-02-6			
18.752	18.752	(0.902)	75	2501176	58.6900	58.690	80.00- 120.00	100.00	
18.752	18.752	(0.902)	77	803518			0.00- 82.09	32.13	
18.752	18.752	(0.902)	39	888557			0.00- 85.85	35.53	

117	1,1,2-Trichloroethane					CAS #: 79-00-5			
19.111	19.112	(0.919)	97	1728177	57.8931	57.893	80.00- 120.00	100.00	
19.111	19.112	(0.919)	99	1095076			13.09- 113.09	63.37	
19.111	19.112	(0.919)	83	1466615			33.53- 133.53	84.86	

120	Tetrachloroethene					CAS #: 127-18-4			
19.277	19.277	(0.927)	166	2259501	56.6047	56.605	80.00- 120.00	100.00	
19.277	19.277	(0.927)	129	1589965			19.75- 119.75	70.37	
19.277	19.277	(0.927)	131	1517930			16.23- 116.23	67.18	

121	2-Hexanone					CAS #: 591-78-6			
19.416	19.416	(0.934)	58	1331903	34.4067	34.407	80.00- 120.00	100.00	
19.416	19.416	(0.934)	43	2057672			106.61- 206.61	154.49	
19.416	19.416	(0.934)	100	297843			0.00- 71.95	22.36	

122	Dibromochloromethane					CAS #: 124-48-1			
19.803	19.803	(0.952)	129	2802493	56.4181	56.418	80.00- 120.00	100.00	
19.803	19.803	(0.952)	127	2173457			26.41- 126.41	77.55	

123	1,2-Dibromoethane					CAS #: 106-93-4			
20.051	20.052	(0.964)	107	2578766	53.7352	53.735	80.00- 120.00	100.00	
20.051	20.052	(0.964)	109	2405068			43.35- 143.35	93.26	

127	Chlorobenzene					CAS #: 108-90-7			
20.853	20.853	(1.003)	112	3573942	53.4074	53.407	80.00- 120.00	100.00	
20.853	20.853	(1.003)	114	1124843			0.00- 81.16	31.47	
20.853	20.853	(1.003)	77	2132758			10.55- 110.55	59.68	

128	Ethyl Benzene					CAS #: 100-41-4			
20.936	20.936	(1.007)	106	1854151	53.5623	53.562	80.00- 120.00	100.00	
20.936	20.936	(1.007)	91	5887550			265.06- 365.06	317.53	

129	m,p-Xylene					CAS #: 108-38-3			
21.130	21.130	(1.016)	106	2321515	53.9760	53.976	80.00- 120.00	100.00	
21.130	21.130	(1.016)	91	4614321			147.41- 247.41	198.76	

130	o-Xylene					CAS #: 95-47-6			
21.849	21.849	(1.051)	106	2185437	55.1448	55.145	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE		ON-COL	FINAL	TARGET RANGE	RATIO
				(PPEV)	(PPEV)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
130 o-Xylene (continued)									
21.849	21.849	(1.051)	91	4563138				158.78- 258.78	208.80

131 Styrene CAS #: 100-42-5									
21.876	21.876	(1.052)	104	3431535	54.7801	54.780		80.00- 120.00	100.00
21.876	21.876	(1.052)	78	1713901				0.00- 99.20	49.95

133 Bromoform CAS #: 75-25-2									
22.291	22.291	(1.072)	173	2606577	55.4493	55.449		80.00- 120.00	100.00
22.291	22.291	(1.072)	171	1329464				1.13- 101.13	51.00

134 Cumene CAS #: 98-82-8									
22.429	22.430	(1.078)	105	6303641	60.5696	60.570		80.00- 120.00	100.00
22.429	22.430	(1.078)	120	1630954				0.00- 75.99	25.87
22.402	22.430	(1.077)	51	480554				9.74- 109.74	7.62

140 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.010	23.010	(1.106)	83	3250571	51.5424	51.542		80.00- 120.00	100.00
23.010	23.010	(1.106)	85	2115866				14.96- 114.96	65.09

142 Propylbenzene CAS #: 103-65-1									
23.121	23.093	(1.112)	91	7657660	55.8320	55.832		80.00- 120.00	100.00
23.121	23.093	(1.112)	120	1682099				0.00- 72.67	21.97
23.121	23.093	(1.112)	105	274058				0.00- 53.69	3.58

145 4-Ethyltoluene CAS #: 622-96-8									
23.286	23.287	(1.120)	105	6453792	55.3267	55.327		80.00- 120.00	100.00
23.286	23.287	(1.120)	120	1920224				0.00- 80.01	29.75

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.397	23.397	(1.125)	105	5095238	52.7549	52.755		80.00- 120.00	100.00
23.397	23.397	(1.125)	120	2479990				1.60- 101.60	48.67

150 1,2,4-Trimethylbenzene CAS #: 95-63-6									
24.033	24.033	(1.156)	105	4908405	53.2818	53.282		80.00- 120.00	100.00
24.033	24.033	(1.156)	120	2286981				0.00- 96.88	46.59

155 1,3-Dichlorobenzene CAS #: 541-73-1									
24.586	24.586	(1.182)	146	3392151	52.4019	52.402		80.00- 120.00	100.00
24.586	24.586	(1.182)	148	2149424				14.03- 114.03	63.36
24.586	24.586	(1.182)	111	1413856				0.00- 91.33	41.68

156 1,4-Dichlorobenzene CAS #: 106-46-7									
24.724	24.724	(1.189)	146	3471615	52.0836	52.084		80.00- 120.00	100.00
24.724	24.724	(1.189)	148	2219400				15.04- 115.04	63.93
24.724	24.724	(1.189)	111	1394641				0.00- 89.92	40.17

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL	FINAL	TARGET RANGE	RATIO	
					(PPEV)	(PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
159 alpha-Chlorotoluene					CAS #: 100-44-7				
24.945	24.946	(1.199)	91	5525029	58.6205	58.620	80.00-	120.00	100.00
24.945	24.946	(1.199)	126	1042152			0.00-	70.12	18.86

161 1,2-Dichlorobenzene					CAS #: 95-50-1				
25.360	25.360	(1.219)	146	3292901	51.3449	51.345	80.00-	120.00	100.00
25.360	25.360	(1.219)	148	2107476			14.29-	114.29	64.00
25.360	25.360	(1.219)	111	1441023			0.00-	93.29	43.76

165 1,2,4-Trichlorobenzene					CAS #: 120-82-1				
28.153	28.153	(1.354)	180	2549010	41.5553	41.555	80.00-	120.00	100.00
28.153	28.153	(1.354)	182	2443089			44.44-	144.44	95.84

166 Hexachlorobutadiene					CAS #: 87-68-3				
28.319	28.319	(1.362)	225	2031576	45.3004	45.300	80.00-	120.00	100.00
28.319	28.319	(1.362)	223	1253469			14.10-	114.10	61.70

29 Isopentane					CAS #: 78-78-4				
8.245	8.245	(0.595)	43	1415261	51.3504	51.350	80.00-	120.00	100.00
8.245	8.245	(0.595)	57	1137908			26.21-	126.21	80.40

19 Butane					CAS #: 106-97-8				
6.807	6.808	(0.491)	58	199864	58.5910	58.591	80.00-	120.00	100.00
6.807	6.808	(0.491)	43	1313850			668.04-	768.04	657.37

102 Methyl Cyclohexane					CAS #: 108-87-2				
16.346	16.347	(1.180)	83	2265642	58.1451	58.145	80.00-	120.00	100.00
16.346	16.347	(1.180)	98	1016013			0.00-	92.45	44.84
16.346	16.347	(1.180)	55	1477864			18.10-	118.10	65.23

167 Naphthalene					CAS #: 91-20-3				
28.678	28.678	(1.379)	128	3920645	44.4335	44.433	80.00-	120.00	100.00
28.678	28.678	(1.379)	127	479295			0.00-	62.43	12.22

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 04-Dec-2007 10:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i

Calibration Date: 04-DEC-2007

Lab File ID: t120403.d

Calibration Time: 09:44

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdt.i/04Dec2007.b/t14q1121b.m

Misc Info: 200ppbv -> 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	355566	213340	497792	376079	5.77
97 1,4-Difluorobenze	1769240	1061544	2476936	1905131	7.68
126 Chlorobenzene-d5	1250441	750265	1750617	1264162	1.10

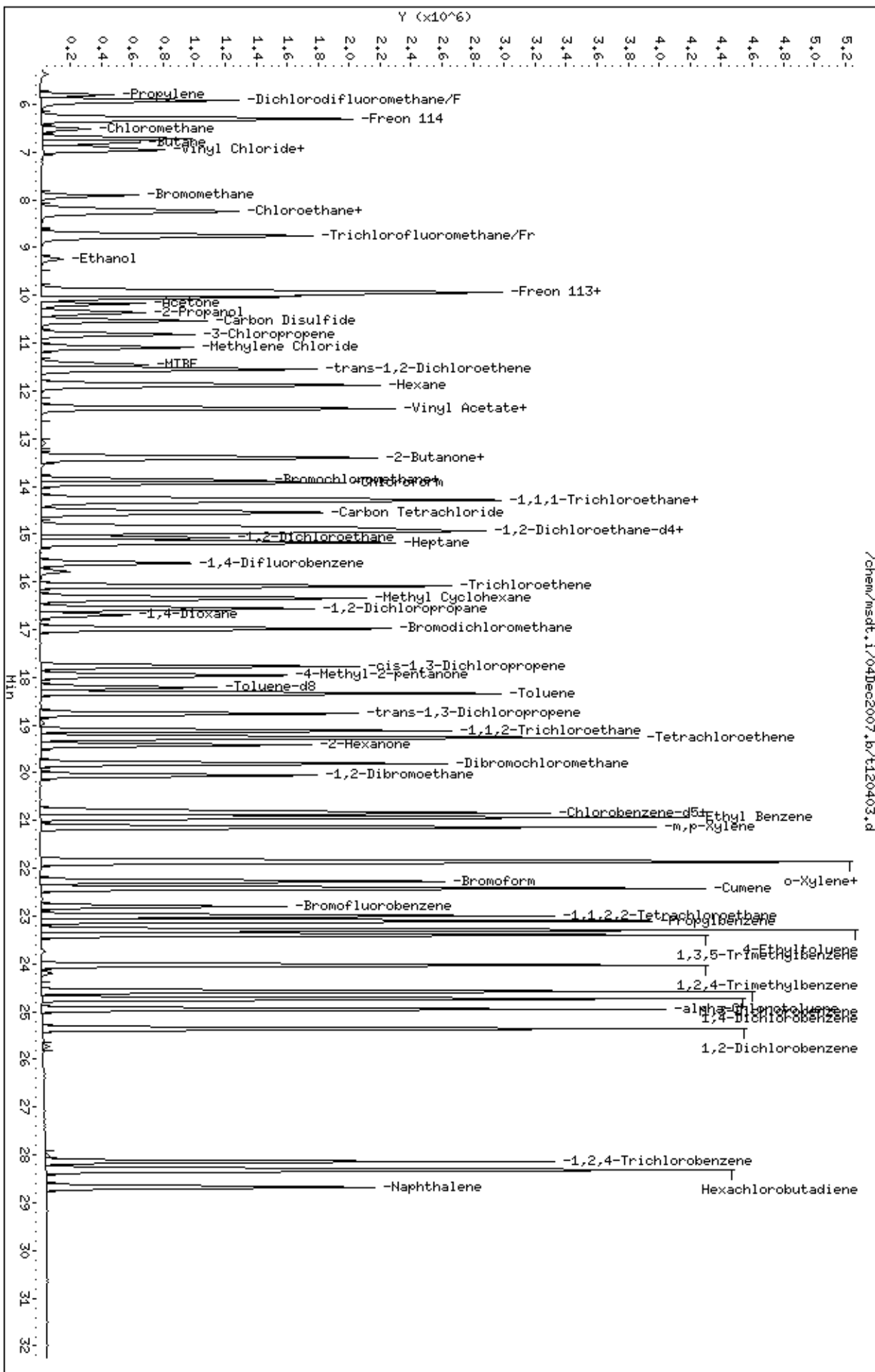
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
81 Bromochloromethan	13.86	13.53	14.19	13.86	0.00
97 1,4-Difluorobenze	15.60	15.27	15.93	15.63	0.18
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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.



m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	17.77
75	30.0 - 60.0% of mass 95	49.07
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	6.39
173	Less than 2.0% of mass 174	(0.73) ¹
174	Greater than 50.0% of mass 95	70.69
175	5.0 - 9.0% of mass 174	(7.12) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.55) ¹
177	5.0 - 9.0% of mass 176	(6.48) ²

Verify 176/174 m/z Ratio: $\frac{106.5712/110.3808 \times 100}{96.55} = 96.55$

BFB Injection Date: 12/14/07
 BFB Injection Time: 10:54
 BFB File ID: 6120401
 Tekmar Purge Flow: 17.4 mL/min
 Vacuum: 4.24e-5
 IS/S Std #: 1443-355 Exp. Date: 2/5/08
 BCM: 355566
 I4-DFB: 1769240
 CB-d5: 1250441
 Verified CCV IS vs ICAL mid-point (-40%^{AD})

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{Ref}}} \times \frac{\text{Conc}_{\text{Ref}}}{\text{Conc}_{\text{Sample}}}$

$(1514716) \times (25.0) = (1769240) \times (25.291)$

Reported Result: 25.291

File ID: 6120402
 Compound: TAI-DB
 Initials: JRN

#	File #	Sample / Client Name	Can #	Pressure	Am't Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	6120401	BFB Time Check	462-64	500g	2ul	1.00	12/14/07	0854	JRN	
2	02	CV-1 (Sample)	1576-92	50ppb	500ul			0944	JRN	0 out
3	03	CV-1	1576-108					1024	JRN	
4	04	CV130 (logbook)	1487-105A		100mL			1123	JRN	
5	05	Lab blank	12009	Humid	200mL			1240	JRN	sp226201
6	06	03HW3A-02A	4288	215mg-5m	200mL	4.73		1505	JRN	
7	07	02A	0701e	215mg-5m		4.73		1544	JRN	
8	08	04A	12078	215mg-5m		4.73		1632	JRN	
9	09	05A	14324	215mg-5m		4.73		1745	JRN	

Signature: JRN

Date: 12/14/07

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓									
T12241D	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0711423A-OEA	0711428-O1A	0711423A-OEA	0711428-O2A	0711428-O1A	System Blank	0712036-O1A	0711487-O1A	0712036-O1A	0712036-O1A	0712036-O1A	0712036-O1A	0711417-O3A	0711417-O3A									
05303	33805	05703	33378	33905	10009	33505	33505	21015	22203	22203	22203	1445	31752	31752								
26.0% sp. air	26.0% sp. air	26.0% sp. air	26.0% sp. air	26.0% sp. air	Humid	5.5% sp. air	2.0% sp. air	1.0% sp. air	1.0% sp. air	0.5% sp. air	↓	6.0% sp. air	6.0% sp. air									
200ml	200ml	200ml	200ml	200ml	200ml	40ml	200ml	200ml	200ml	25ml	↓	200ml	200ml									
1.50	1.34	1.30	1.83	1.50	1.00	1.0	1.16	1.39	1.14	1.14	↓	2.53	2.58									
12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07	12/1/07									
1812	1813	2022	2110	2148	2308	0701	07042	0134	0231	032	0420	0517	0605									
505	505	505	505	505	505	505	505	505	505	505	505	505	505									
7RS	7RS	7RS	7RS	7RS	7RS	7RS	7RS	7RS	7RS	7RS	7RS	7RS	7RS									
		NS - Calibration Run			see 4ml																	

Comments:

80.12/1/07

Rosanna D. Brown
Signature

12/1/07
Date

Report Date: 27-Nov-2007 12:03

Air Toxics Ltd.

Data file : /chem/msdt.i/21Nov2007.b/t112101.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 21-NOV-2007 13:34
 Operator : ea Inst ID: msdt.i
 Smp Info : 2uL #1467-58;BFB Tune check;BFB Tune check
 Misc Info : 50ng
 Comment :
 Method : /chem/msdt.i/21Nov2007.b/bfb.m
 Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====

1 bfb

CAS #: 460-00-4

8.137	8.228	-0.091	95	1324074		100.00- 100.00	100.00
8.137	8.228	-0.091	50	240909		15.00- 40.00	18.19
8.137	8.228	-0.091	75	643395		30.00- 60.00	48.59
8.137	8.228	-0.091	96	86351		5.00- 9.00	6.52
8.137	8.228	-0.091	173	7626		0.00- 2.00	0.75
8.137	8.228	-0.091	174	1015296		50.00- 100.00	76.68
8.137	8.228	-0.091	175	72603		5.00- 9.00	7.15
8.137	8.228	-0.091	176	980730		95.00- 101.00	96.60
8.137	8.228	-0.091	177	64069		5.00- 9.00	6.53

Date : 21-NOV-2007 13:34

Client ID: BFB

Instrument: msdt.i

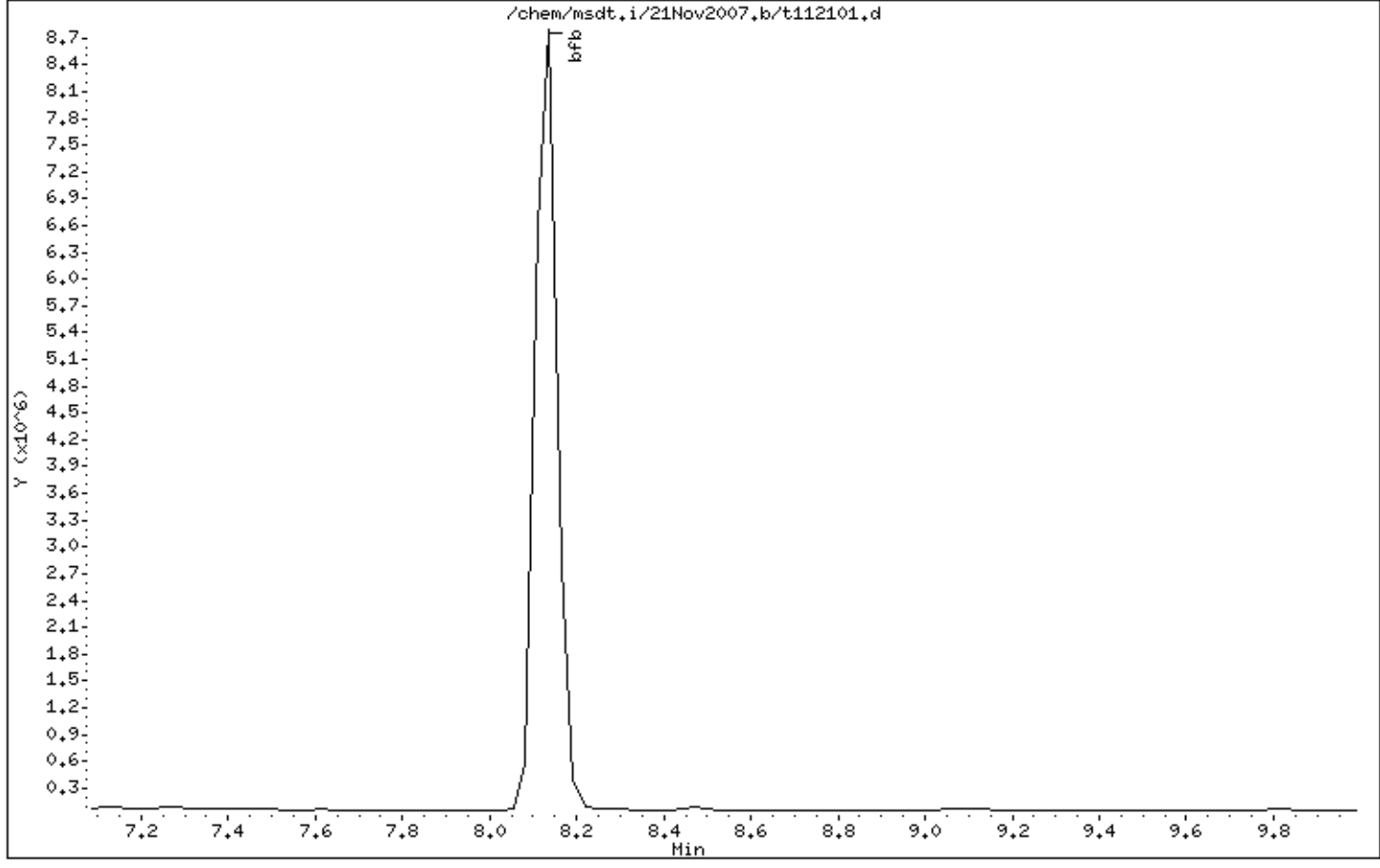
Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00



Date : 21-NOV-2007 13:34

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

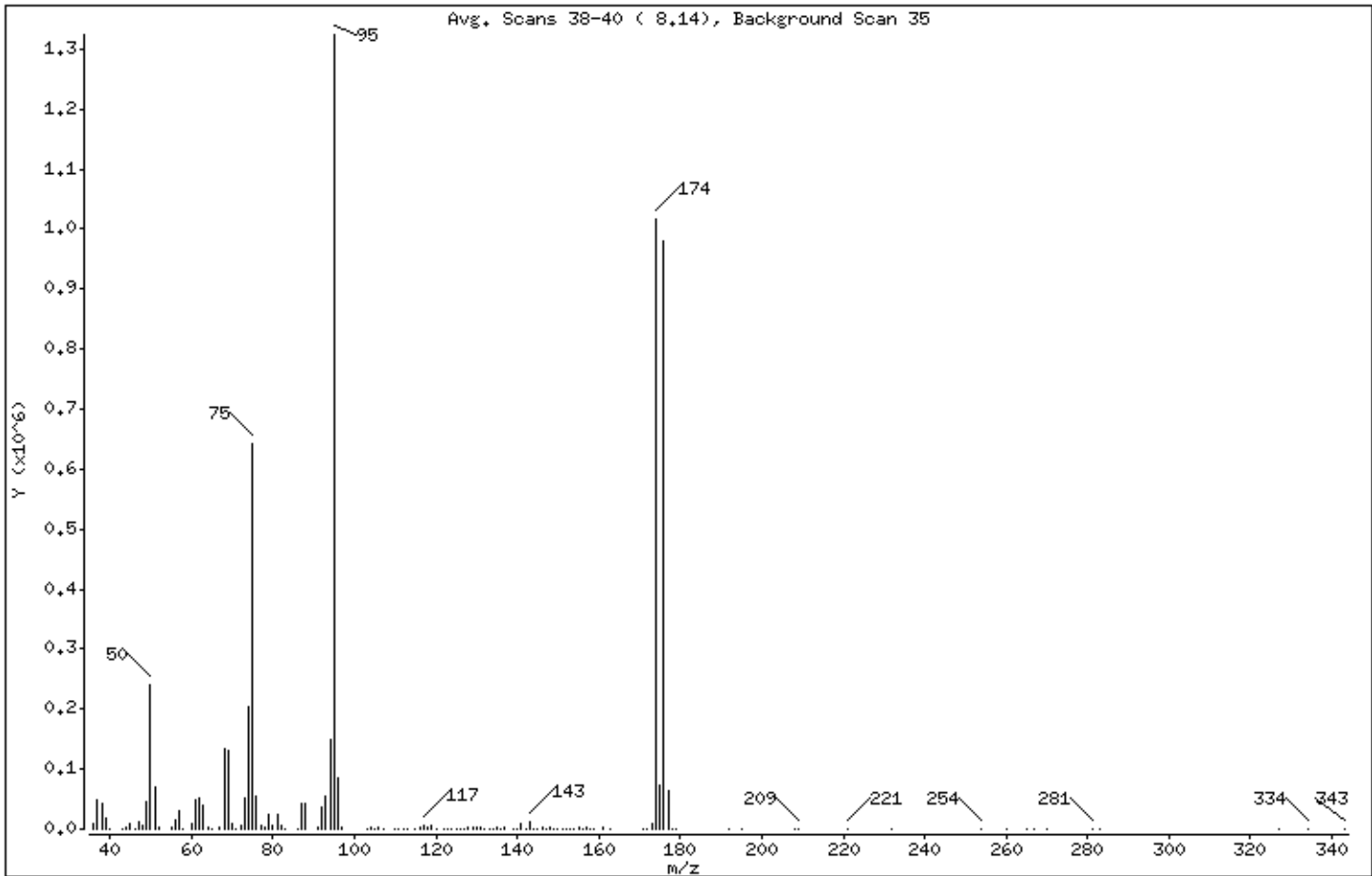
Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.19
75	30.00 - 60.00% of mass 95	48.59
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.58 (0.75)
174	50.00 - 100.00% of mass 95	76.68
175	5.00 - 9.00% of mass 174	5.48 (7.15)
176	95.00 - 101.00% of mass 174	74.07 (96.60)
177	5.00 - 9.00% of mass 176	4.84 (6.53)

Date : 21-NOV-2007 13:34

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

Data File: t112101.d

Spectrum: Avg. Scans 38-40 (8.14), Background Scan 35

Location of Maximum: 95.00

Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8359	75.00	643392	120.00	116	155.00	2943
37.00	48480	76.00	55440	122.00	229	156.00	627
38.00	44072	77.00	6270	123.00	322	157.00	1923
39.00	18648	78.00	3492	124.00	693	158.00	285
40.00	53	79.00	24424	125.00	526	159.00	1437
43.00	32	80.00	7396	126.00	537	161.00	1530
44.00	3908	81.00	24768	127.00	614	163.00	15
45.00	9338	82.00	5292	128.00	4229	171.00	116
46.00	712	83.00	642	129.00	2123	172.00	749
47.00	11836	86.00	972	130.00	4242	173.00	7626
48.00	5386	87.00	44056	131.00	1735	174.00	1015296
49.00	44976	88.00	42496	132.00	155	175.00	72600
50.00	240896	91.00	3363	133.00	107	176.00	980672
51.00	71192	92.00	35536	134.00	28	177.00	64064
52.00	3086	93.00	56184	135.00	1572	178.00	1469
55.00	2406	94.00	147776	136.00	463	179.00	254
56.00	15885	95.00	1324032	137.00	1714	192.00	163
57.00	30872	96.00	86344	139.00	435	195.00	111
58.00	1309	97.00	2730	140.00	677	208.00	37
60.00	9377	103.00	408	141.00	10427	209.00	399
61.00	49888	104.00	4551	142.00	1222	221.00	100
62.00	52984	105.00	1476	143.00	11105	232.00	53
63.00	40856	106.00	4235	144.00	576	254.00	129
64.00	3498	107.00	1315	145.00	1019	260.00	100
65.00	725	110.00	442	146.00	1684	265.00	106
67.00	2785	111.00	891	147.00	779	267.00	54
68.00	134400	112.00	526	148.00	2927	270.00	295
69.00	131264	113.00	748	149.00	904	281.00	362
70.00	9142	115.00	1364	150.00	1271	283.00	128
71.00	329	116.00	3433	151.00	108	327.00	116
72.00	5634	117.00	6543	152.00	554	334.00	215
73.00	50440	118.00	3528	153.00	949	343.00	12
74.00	204288	119.00	5447	154.00	593		

Report Date: 26-Nov-2007 16:13

Air Toxics Ltd.

Data file : /chem/msdt.i/23Nov2007.b/t112301.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 23-NOV-2007 08:28
 Operator : lmr Inst ID: msdt.i
 Smp Info : 2uL #1467-58;BFB Tune check;BFB Tune check
 Misc Info : 50ng
 Comment :
 Method : /chem/msdt.i/23Nov2007.b/bfb.m
 Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====

1 bfb

CAS #: 460-00-4

8.110	8.228	-0.118	95	1544582		100.00- 100.00	100.00
8.110	8.228	-0.118	50	249387		15.00- 40.00	16.15
8.110	8.228	-0.118	75	708475		30.00- 60.00	45.87
8.110	8.228	-0.118	96	99480		5.00- 9.00	6.44
8.110	8.228	-0.118	173	8891		0.00- 2.00	0.78
8.110	8.228	-0.118	174	1146976		50.00- 100.00	74.26
8.110	8.228	-0.118	175	82689		5.00- 9.00	7.21
8.110	8.228	-0.118	176	1106265		95.00- 101.00	96.45
8.110	8.228	-0.118	177	71876		5.00- 9.00	6.50

Date : 23-NOV-2007 08:28

Client ID: BFB

Instrument: msdt.i

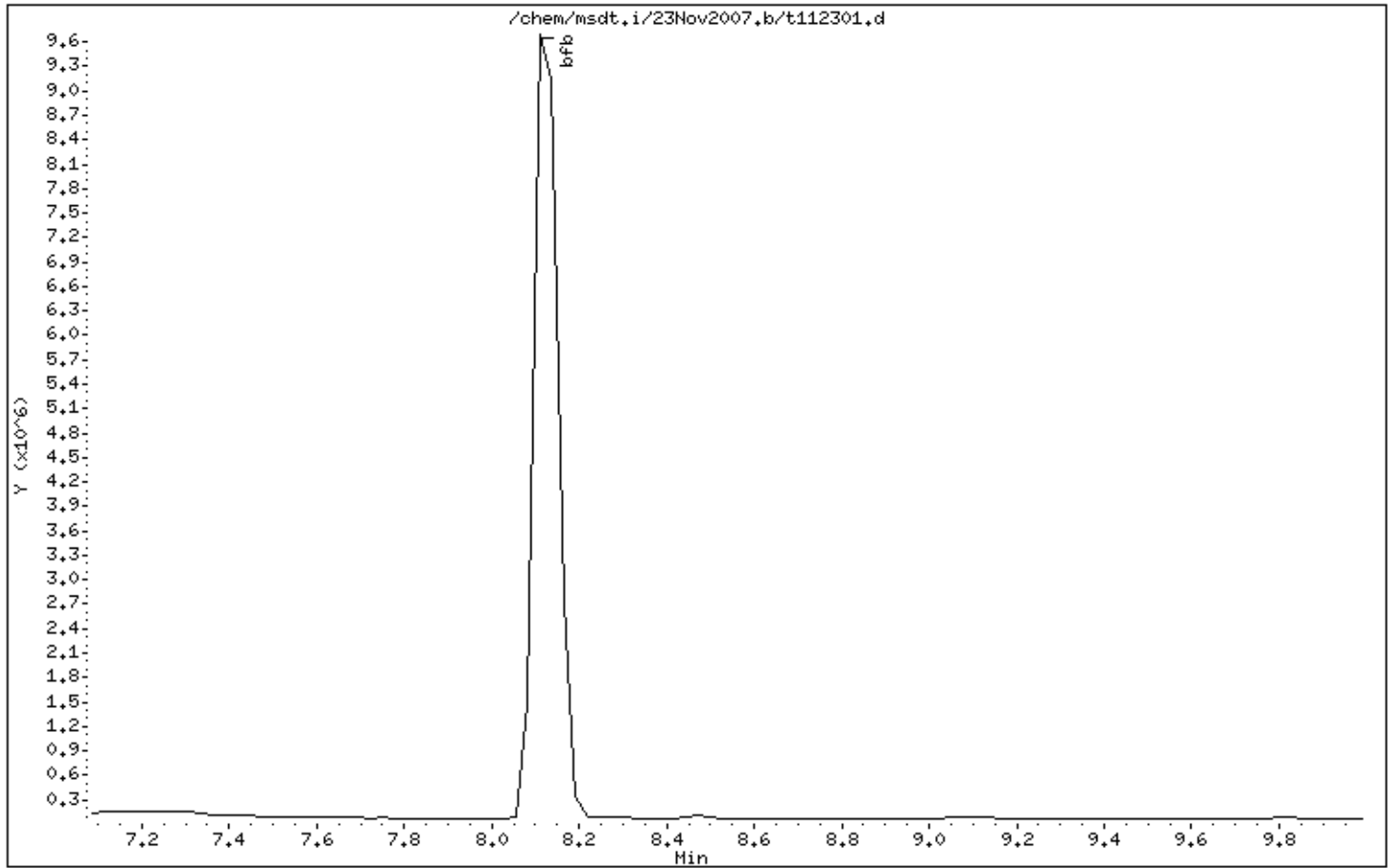
Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00



Date : 23-NOV-2007 08:28

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

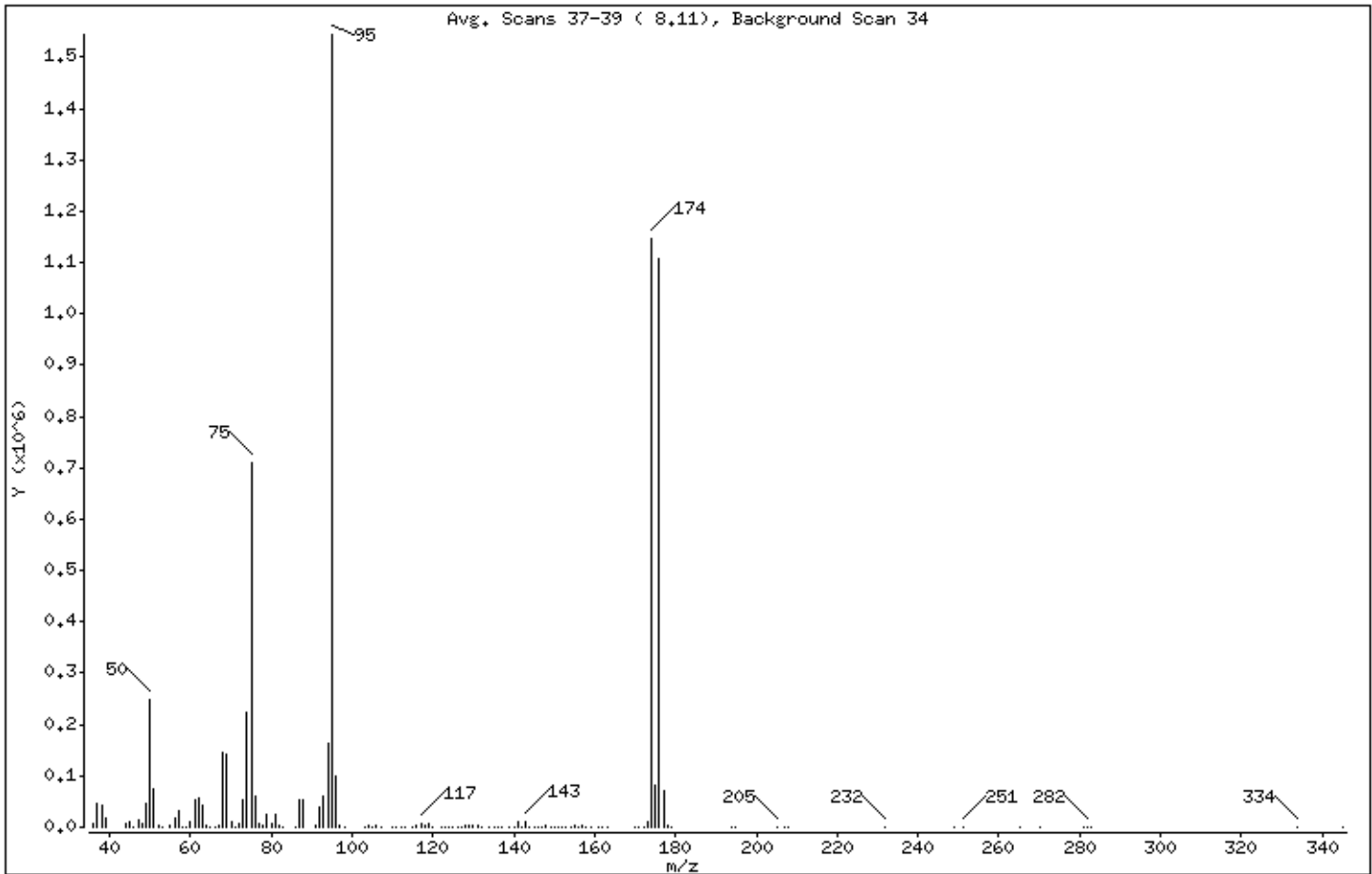
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.15
75	30.00 - 60.00% of mass 95	45.87
96	5.00 - 9.00% of mass 95	6.44
173	Less than 2.00% of mass 174	0.58 (0.78)
174	50.00 - 100.00% of mass 95	74.26
175	5.00 - 9.00% of mass 174	5.35 (7.21)
176	95.00 - 101.00% of mass 174	71.62 (96.45)
177	5.00 - 9.00% of mass 176	4.65 (6.50)

Date : 23-NOV-2007 08:28

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: t112301.d

Spectrum: Avg. Scans 37-39 (8.11), Background Scan 34

Location of Maximum: 95.00

Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7347	75.00	708416	120.00	268	157.00	2260
37.00	46552	76.00	60808	122.00	396	158.00	118
38.00	43296	77.00	6814	123.00	348	159.00	1410
39.00	17696	78.00	4637	124.00	619	161.00	1458
44.00	5687	79.00	24416	125.00	403	162.00	107
45.00	9713	80.00	7616	126.00	418	163.00	5
46.00	654	81.00	26112	127.00	480	170.00	109
47.00	13200	82.00	4774	128.00	4222	171.00	147
48.00	5831	83.00	428	129.00	2165	172.00	493
49.00	45528	86.00	1134	130.00	4391	173.00	8891
50.00	249344	87.00	54248	131.00	2111	174.00	1146880
51.00	73384	88.00	51824	132.00	217	175.00	82688
52.00	3180	91.00	3547	134.00	407	176.00	1105920
53.00	66	92.00	37384	135.00	1421	177.00	71872
55.00	2614	93.00	59568	136.00	354	178.00	2073
56.00	17040	94.00	163968	137.00	1731	179.00	261
57.00	32480	95.00	1544192	139.00	431	194.00	101
58.00	1440	96.00	99480	140.00	623	195.00	104
59.00	5	97.00	3083	141.00	9617	205.00	230
60.00	9678	98.00	110	142.00	1052	207.00	199
61.00	54528	103.00	221	143.00	10141	208.00	75
62.00	55712	104.00	4703	144.00	499	232.00	349
63.00	42584	105.00	1539	145.00	894	249.00	55
64.00	3568	106.00	4553	146.00	1749	251.00	206
65.00	316	107.00	1280	147.00	766	265.00	98
66.00	126	110.00	504	148.00	3102	270.00	16
67.00	2565	111.00	733	149.00	789	281.00	84
68.00	145344	112.00	501	150.00	1096	282.00	245
69.00	142912	113.00	907	151.00	115	283.00	15
70.00	10376	115.00	1328	152.00	543	334.00	477
71.00	446	116.00	4122	153.00	932	345.00	103
72.00	6480	117.00	6699	154.00	805		
73.00	54576	118.00	3979	155.00	3308		
74.00	223936	119.00	5501	156.00	480		

Report Date: 26-Nov-2007 08:55

Air Toxics Ltd.

Data file : /chem/msdt.i/26Nov2007.b/t112601.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 26-NOV-2007 08:57
 Operator : ea Inst ID: msdt.i
 Smp Info : 2uL #1467-58;BFB Tune check;BFB Tune check
 Misc Info : 50ng
 Comment :
 Method : /chem/msdt.i/26Nov2007.b/bfb.m
 Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT EXP RT DLT RT MASS RESPONSE (ug/L) (ug/L) TARGET RANGE RATIO
 == =====

RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb					CAS #: 460-00-4		
8.110	8.228	-0.118	95	1680625		100.00- 100.00	100.00
8.110	8.228	-0.118	50	295583		15.00- 40.00	17.59
8.110	8.228	-0.118	75	816391		30.00- 60.00	48.58
8.110	8.228	-0.118	96	110109		5.00- 9.00	6.55
8.110	8.228	-0.118	173	9302		0.00- 2.00	0.76
8.110	8.228	-0.118	174	1229653		50.00- 100.00	73.17
8.110	8.228	-0.118	175	89370		5.00- 9.00	7.27
8.110	8.228	-0.118	176	1190058		95.00- 101.00	96.78
8.110	8.228	-0.118	177	77646		5.00- 9.00	6.52

Date : 26-NOV-2007 08:57

Client ID: BFB

Instrument: msdt.i

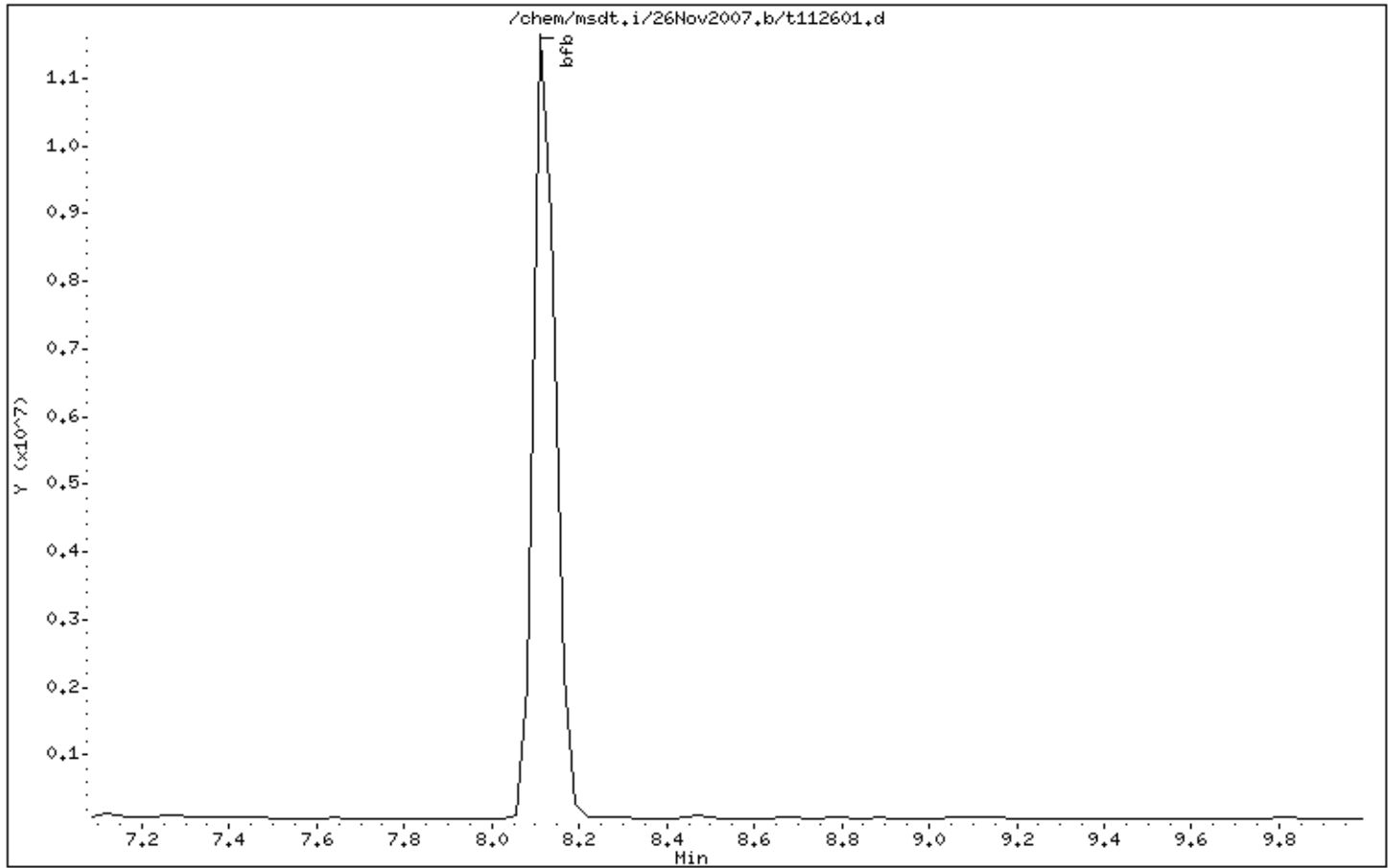
Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00



Date : 26-NOV-2007 08:57

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

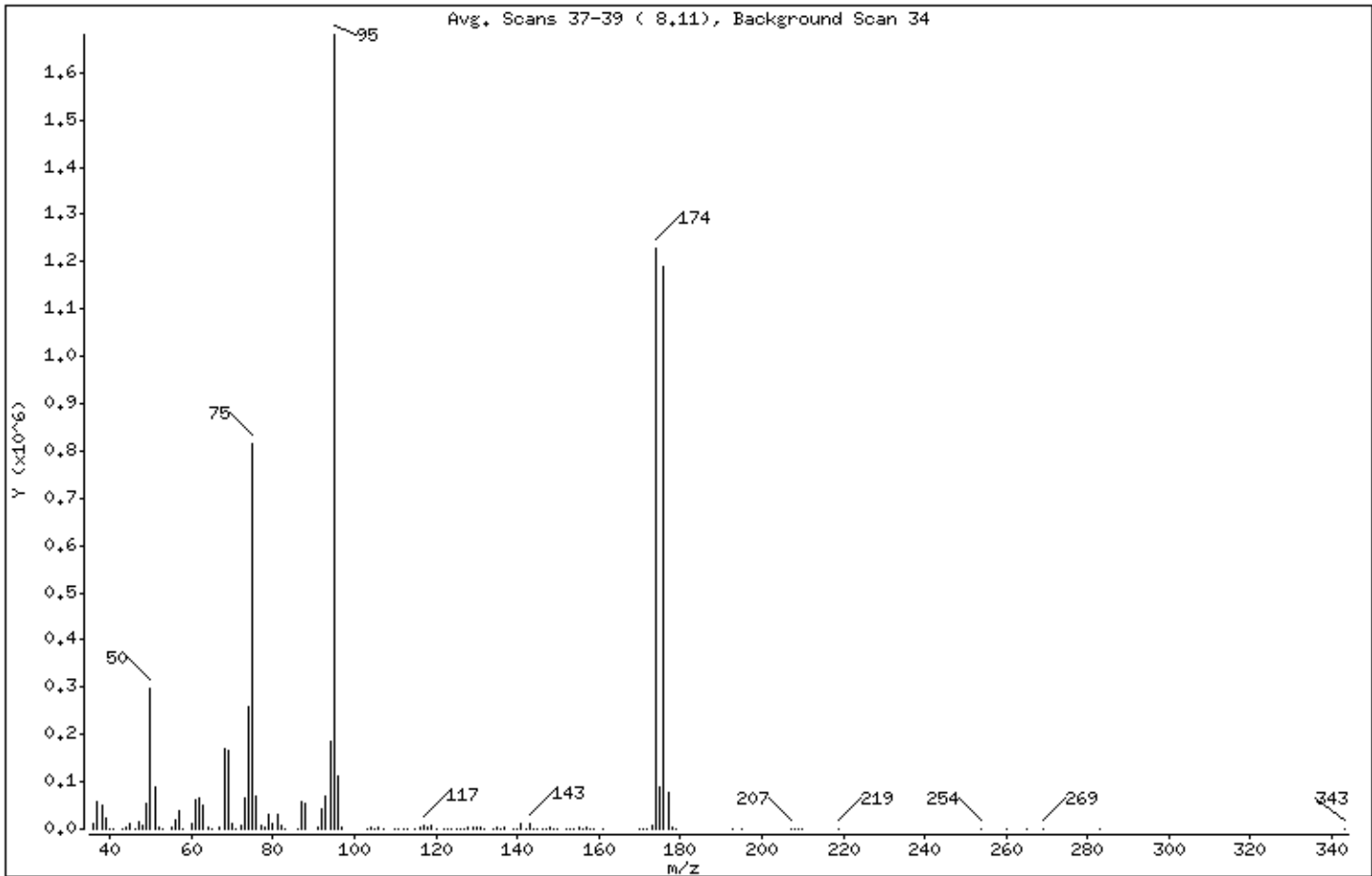
Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	48.58
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.55 (0.76)
174	50.00 - 100.00% of mass 95	73.17
175	5.00 - 9.00% of mass 174	5.32 (7.27)
176	95.00 - 101.00% of mass 174	70.81 (96.78)
177	5.00 - 9.00% of mass 176	4.62 (6.52)

Date : 26-NOV-2007 08:57

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

Data File: t112601.d

Spectrum: Avg. Scans 37-39 (8.11), Background Scan 34

Location of Maximum: 95.00

Number of points: 128

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9975	73.00	64312	118.00	4454	155.00	3705
37.00	56856	74.00	258304	119.00	6442	156.00	633
38.00	51368	75.00	816384	120.00	316	157.00	2290
39.00	21288	76.00	69184	122.00	338	158.00	389
40.00	241	77.00	7692	123.00	375	159.00	1791
41.00	92	78.00	4642	124.00	749	161.00	1550
43.00	144	79.00	31264	125.00	644	170.00	252
44.00	5635	80.00	9849	126.00	636	171.00	224
45.00	11500	81.00	32192	127.00	301	172.00	677
46.00	872	82.00	6684	128.00	5010	173.00	9302
47.00	14225	83.00	679	129.00	2400	174.00	1229312
48.00	7444	86.00	1228	130.00	4985	175.00	89368
49.00	54520	87.00	57024	131.00	2008	176.00	1189888
50.00	295552	88.00	53880	132.00	253	177.00	77640
51.00	89008	91.00	4165	134.00	473	178.00	2331
52.00	3949	92.00	43800	135.00	2211	179.00	258
53.00	251	93.00	68632	136.00	354	193.00	514
55.00	3349	94.00	184064	137.00	1982	195.00	231
56.00	20288	95.00	1680384	139.00	378	207.00	1551
57.00	38912	96.00	110104	140.00	832	208.00	357
58.00	1422	97.00	3378	141.00	12061	209.00	203
60.00	11435	103.00	578	142.00	1356	210.00	107
61.00	63704	104.00	5490	143.00	12222	219.00	111
62.00	67056	105.00	1749	144.00	601	254.00	208
63.00	51424	106.00	5112	145.00	1021	260.00	30
64.00	4623	107.00	1455	146.00	1745	265.00	148
65.00	553	110.00	615	147.00	1083	269.00	48
67.00	3551	111.00	825	148.00	3338	283.00	10
68.00	171264	112.00	544	149.00	1085	343.00	193
69.00	167168	113.00	790	150.00	1437		
70.00	11705	115.00	1293	152.00	591		
71.00	329	116.00	4910	153.00	928		
72.00	7062	117.00	7803	154.00	837		

Report Date: 04-Dec-2007 09:17

Air Toxics Ltd.

Data file : /chem/msdt.i/04Dec2007.b/t120401.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 04-DEC-2007 08:54
 Operator : sjr Inst ID: msdt.i
 Smp Info : 2uL #1467-64;BFB Tune check;BFB Tune check
 Misc Info : 50ng
 Comment :
 Method : /chem/msdt.i/04Dec2007.b/bfb.m
 Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT EXP RT DLT RT MASS RESPONSE (ug/L) (ug/L) TARGET RANGE RATIO

1 bfb CAS #: 460-00-4

8.110	8.228	-0.118	95	1561392	100.00-	100.00	100.00
8.110	8.228	-0.118	50	277440	15.00-	40.00	17.77
8.110	8.228	-0.118	75	766139	30.00-	60.00	49.07
8.110	8.228	-0.118	96	99737	5.00-	9.00	6.39
8.110	8.228	-0.118	173	8109	0.00-	2.00	0.73
8.110	8.228	-0.118	174	1103808	50.00-	100.00	70.69
8.110	8.228	-0.118	175	78563	5.00-	9.00	7.12
8.110	8.228	-0.118	176	1065712	95.00-	101.00	96.55
8.110	8.228	-0.118	177	69056	5.00-	9.00	6.48

Data File: /chem/msdt.i/04Dec2007,b/t120401.d

Page 1

Date : 04-DEC-2007 08:54

Client ID: BFB

Instrument: msdt.i

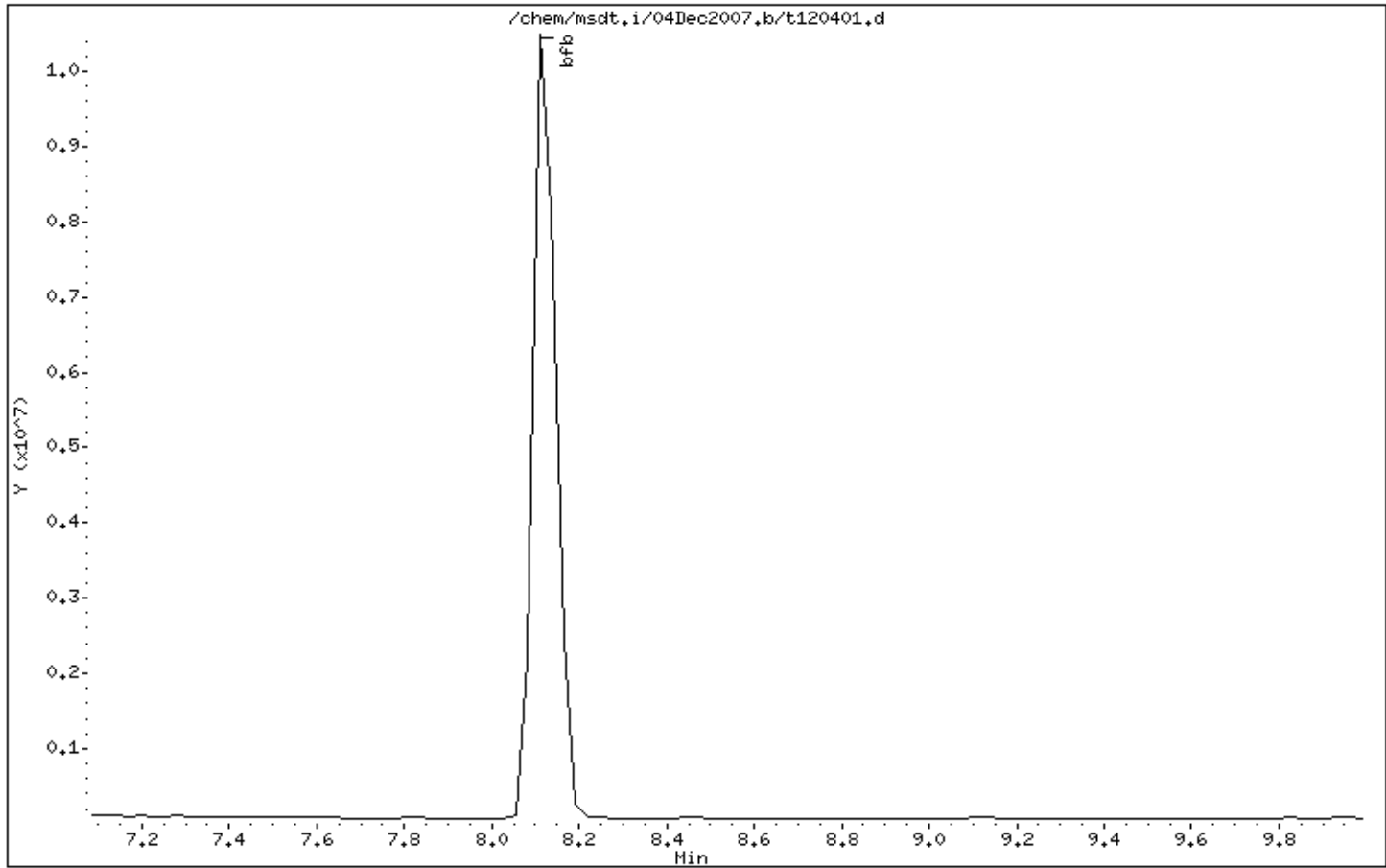
Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00



Date : 04-DEC-2007 08:54

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

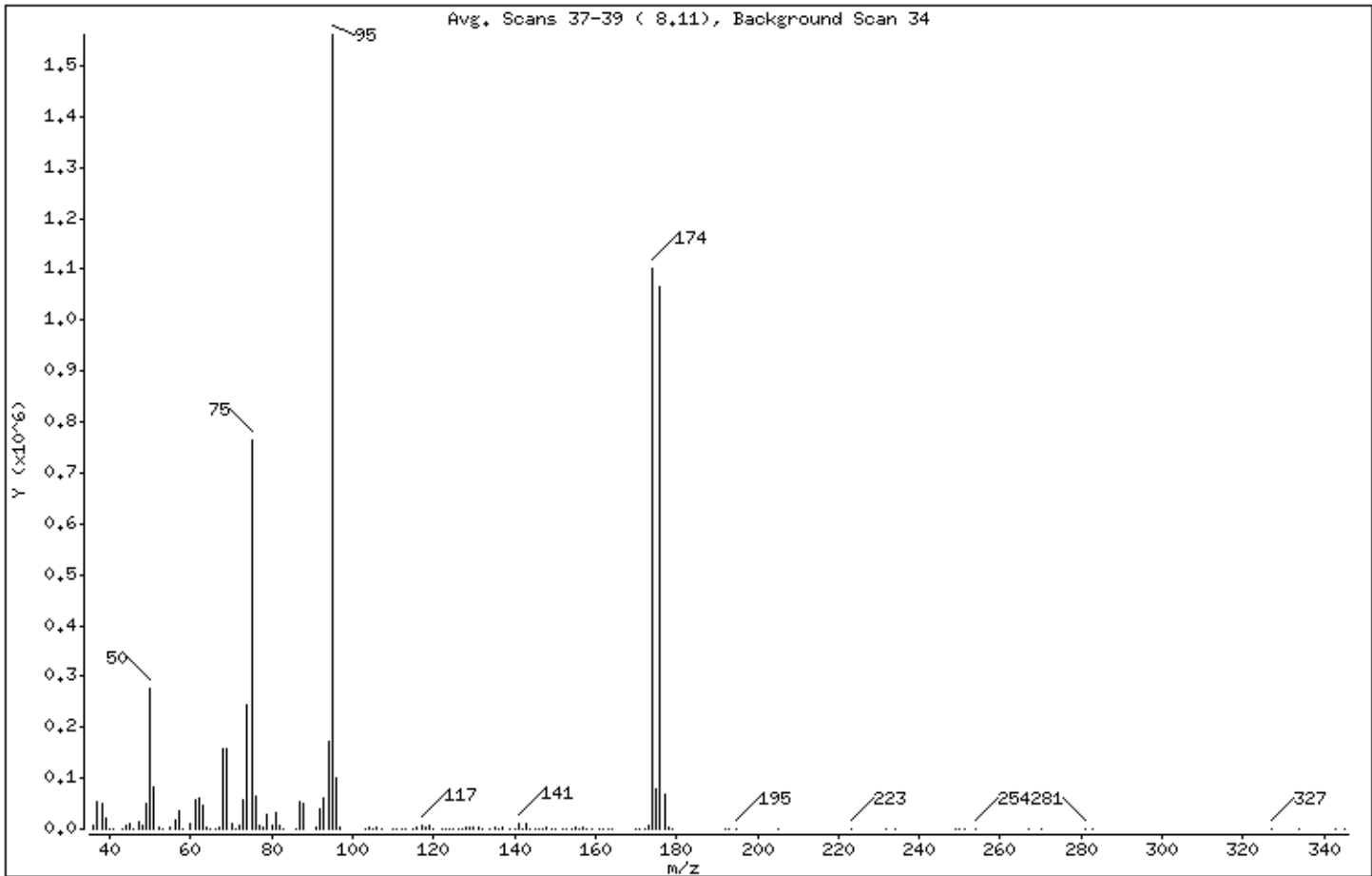
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.77
75	30.00 - 60.00% of mass 95	49.07
96	5.00 - 9.00% of mass 95	6.39
173	Less than 2.00% of mass 174	0.52 (0.73)
174	50.00 - 100.00% of mass 95	70.69
175	5.00 - 9.00% of mass 174	5.03 (7.12)
176	95.00 - 101.00% of mass 174	68.25 (96.55)
177	5.00 - 9.00% of mass 176	4.42 (6.48)

Date : 04-DEC-2007 08:54

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: t120401.d

Spectrum: Avg. Scans 37-39 (8.11), Background Scan 34

Location of Maximum: 95.00

Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8865	74.00	243136	122.00	388	161.00	1277
37.00	52144	75.00	766080	123.00	355	162.00	103
38.00	48784	76.00	65040	124.00	544	163.00	144
39.00	19896	77.00	7229	125.00	480	164.00	125
40.00	500	78.00	4810	126.00	474	170.00	257
41.00	102	79.00	30312	127.00	354	171.00	590
43.00	678	80.00	8893	128.00	4334	172.00	1307
44.00	5754	81.00	31136	129.00	2349	173.00	8109
45.00	10728	82.00	6556	130.00	4439	174.00	1103360
46.00	552	83.00	799	131.00	2029	175.00	78560
47.00	13926	86.00	1309	132.00	262	176.00	1065472
48.00	6539	87.00	54376	134.00	15	177.00	69056
49.00	51920	88.00	51840	135.00	2010	178.00	2257
50.00	277440	91.00	4055	136.00	439	179.00	91
51.00	83424	92.00	39888	137.00	2017	192.00	60
52.00	3593	93.00	62192	139.00	276	193.00	79
53.00	349	94.00	171712	140.00	665	195.00	278
55.00	2845	95.00	1561088	141.00	11998	205.00	107
56.00	18424	96.00	99736	142.00	1334	223.00	223
57.00	36912	97.00	2832	143.00	11864	232.00	10
58.00	1448	103.00	471	144.00	659	234.00	106
60.00	10838	104.00	5205	145.00	1038	249.00	25
61.00	58336	105.00	1752	146.00	1738	250.00	100
62.00	62760	106.00	4813	147.00	1034	251.00	162
63.00	48216	107.00	1508	148.00	3029	254.00	381
64.00	4605	110.00	558	149.00	690	267.00	13
65.00	640	111.00	734	150.00	1392	270.00	53
66.00	130	112.00	826	152.00	612	281.00	571
67.00	3477	113.00	693	153.00	992	283.00	186
68.00	159616	115.00	1239	154.00	689	327.00	277
69.00	156800	116.00	4398	155.00	3046	334.00	274
70.00	11209	117.00	7547	156.00	709	343.00	46
71.00	366	118.00	4368	157.00	2359	345.00	107
72.00	6426	119.00	5551	158.00	286		
73.00	58680	120.00	390	159.00	1497		

Date : 04-DEC-2007 08:54

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: t120401.d

Spectrum: Avg. Scans 37-39 (8.11), Background Scan 34

Location of Maximum: 95.00

Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
+-----+-----+-----+-----+							

Shipping/ Receiving Documents



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**180 Blue Ravine Road, Suite B
Folsom, CA 95630**

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

COMPANY: _____ GEI Consultants, Inc.
ATTENTION: _____ Ms. Sarah Aldridge
FAX #: _____ 860-368-5307
FROM: _____ Sample Receiving
Workorder #: _____ 0711487
of pages (Including Cover): _____ 1

12/12/2007

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

The following discrepancy has been observed:

We have found a discrepancy between the Chain of Custody (COC) and the sample tags. The samples labeled UW-AMS-1 and DW-AMS-5 on the COC are labeled as AMS-1 DW and AMS-5 UW on the sample tags. ATL will report the sample identifications on the COC unless otherwise notified.

Your prompt response is appreciated.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
 Requiring 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. Requiring 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) 457-4022

190 BLUE RAVINE ROAD, SUITE B
 FOLSOM, CA 95630-4719

(916) 985-1000 FAX: (916) 985-1020

Receipt
 WRS 11/28/07

Turn Around Time:

Normal

Rush

Specify _____

Project Info:

P.O. #

Project # 051140 - 8 - 1703

Project Name

Bayshore OVI Southern cell
 Air Monitoring

Collected By: Signature: *[Signature]*

Lab I.D. Field Sample I.D.

Date & Time

Analyses Requested

Canister Pressure/Vacuum
 Initial Final Receipt

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial Final Receipt
01A	UV-AMS-1 CAN# 35136	11/21/07 - 08:55-09:05	TO-15 + Naphthalene	-30 -3 2.54% -19.5 -1.5 1.04%
02A	DW-AMS-5 CAN# 211015	11/21/07 - 06:15-07:00	TO-15 + Naphthalene	

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Lab Slipper Name

Air Bill #

Opened By:

Temp. (C)

Condition

Quality Check Initial

Work Order #

Use ONLY

FedEx

8635 19572588

MG

MA

Good

Yes No

None

0711487

Notes: used flow controllers included

Initial and final can pressures in inches Hg!

Send Data Pack to Lisa McDonough and EDD to

datagroup@getconsultants.com



AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0711487

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

Phone
860-368-5300
Fax
860-368-5307

Date Promised: 12/10/07
Date Completed: 12/7/07
Date Received: 11/26/07
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell
Air Monitori
Total \$: \$ 624.00
Logged By: MW

Sales Rep: ANS

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
01A	UW-AMS-1	Modified TO-15	11/21/2007	2.5 "Hg	\$225.00
02A	DW-AMS-5	Modified TO-15	11/21/2007	1.0 "Hg	\$225.00
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
Blue Body Flow Controller (2) @ \$35.00 each.					\$70.00
Fuel Surcharge (2) @ \$2.00 each.					\$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Sample Discrepancy Report

Identification

Initiated By: mw

Date: 11/27

Discrepancy Type:
(circle all that apply)

I. II. III.

Workorder(s) affected: 0711487

Sample(s) affected: all

I. Sample Receipt Discrepancies

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

Narration not required:

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

Narration Required:

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

Describe the Discrepancy: OIA: AMS-1 DW . OJA: AMS-5 UW

II. Sample Receipt/Screening Discrepancies requiring CSR notification

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

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

- COC was not received with samples.
- Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- Number of samples on the COC does not match the number of samples that were received.
- Samples were received expired.
- Sampling date / time (sulfur only) is not documented for some / any samples (circle one).
- Sample received with significant (pooling) volume of H₂O in the Tedlar Bag.
- Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- Samples for RSK-175 CO₂ analysis received preserved with HCl.
- Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- Canister was at ambient pressure at time of pressurization and (check all that apply): canister failed leak check on two manifolds, canister valve was open, brass nut was loose. Sample can / cannot be analyzed (circle one).
- Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- Canister sample received at >15"Hg (not identified as a Trip/Field Blank).
- Trip Blank received at low vacuum (< 25"Hg).
- Tedlar Bag for Sulfur analysis has metal fitting.
- Incorrect sampling media / container for analysis requested.
- Sample was received at ≥ 10°C.
- Other (describe below)

Initials: _____ Date: _____
(if not the original initiator)

CSR Notified
(see section below)

Describe the Discrepancy: _____

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

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

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

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit	Type
		ppbv	
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	Type
		ppbv	
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	

DATA REVIEW CHECKLIST

Work Order #:

071148.7

A R T M Q
[Handwritten marks in columns]

- 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)
Corrective Action issued - #
Unusual circumstances have been documented in the notes section below

LUMEN validation report present and initialed

CIRCLE (YES / NO)

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

- Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
Correct amount of sample analyzed (i.e. sample not over-diluted)
Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
TICs resemble reference spectra
TICs between duplicate samples are consistent
Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
Special units for all samples in the final report are correctly calculated
Manually entered results checked (i.e. special CCV compounds)
TPH/NMOC (verify calculations and correct reference compound used)
Chain of Custody scanned correctly
Verify sample id's vs. chain of custody
Samples pressurized w/ appropriate gas (N2 or He)
Final pressure consistent with canister size (6L vs. 1L)
Verify receipt pressures against logbook and Target
Verify canister ID #'s
Extra printed copies are provided per client profile
Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
Client LUMEN report reviewed for accuracy and completeness

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

A/R: ICAL: Styrene out < 40%, Ø out in CCV.
FC 113 ↑ in LCS.
14 Day HT.

M/Q:

Review dates and initials: A (Analytical Review/Date) 12/7/07, R/T (Reporting Review/Date) NR 12/7/07, M (Management Review/Date) 12/7/07, Q (QA Review/Date)

Not Applicable