
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 #: 0808480

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	24
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)	25	32
b. Surrogate Recover Summary Form (If Applicable)	33	33
c. Internal Standard Summary Form (If Applicable)	34	34
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	35	194
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	195	209
i. Second Source LCS(Summary + Raw Data)	210	224
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	225	226
l. GC/MS Tune (Results + Raw Data)	227	251
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	252	253
b. Chain-of-Custody Records	254	254
c. Sample Log-In Sheet	255	255
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	256	258
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	259	260
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	261	261

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	9/9/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0808480

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	08/21/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	09/04/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 4	Modified TO-15	8.5 "Hg	5 psi
02A	VW AMS3	Modified TO-15	8.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 09/04/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0808480

Two 6 Liter Summa Canister samples were received on August 21, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction 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 Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
DW AMS 4	0808480-01A	8/20/2008	8/21/2008	NA	14	9/ 3/2008	NA	Good
VW AMS3	0808480-02A	8/20/2008	8/21/2008	NA	14	9/ 3/2008	NA	Good
Lab Blank	0808480-03A	NA	NA	NA	NA	9/ 3/2008	NA	Good
CCV	0808480-04A	NA	NA	NA	NA	9/ 3/2008	NA	Good
LCS	0808480-05A	NA	NA	NA	NA	9/ 3/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 4

Lab ID#: 0808480-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	7.6	8.9	18

0006

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 4

Lab ID#: 0808480-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090314**	**Date of Collection:**	**8/20/08**
Dil. Factor:	**1.87**	**Date of Analysis:**	**9/3/08 03:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.94	Not Detected	4.6	Not Detected
Freon 114	0.94	Not Detected	6.5	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Bromomethane	0.94	Not Detected	3.6	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.94	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
Methylene Chloride	0.94	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Benzene	0.94	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
Toluene	0.94	Not Detected	3.5	Not Detected
trans-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	Not Detected	6.3	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	Not Detected	4.3	Not Detected
Ethyl Benzene	0.94	Not Detected	4.0	Not Detected
m,p-Xylene	0.94	Not Detected	4.1	Not Detected
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
Cyclohexane	0.94	Not Detected	3.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 4

Lab ID#: 0808480-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090314**	**Date of Collection: 8/20/08**	
Dil. Factor:	**1.87**	**Date of Analysis: 9/3/08 03:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.94	Not Detected	3.8	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
Chloromethane	3.7	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	28	Not Detected
Hexachlorobutadiene	3.7	Not Detected	40	Not Detected
Acetone	3.7	7.6	8.9	18
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
2-Propanol	3.7	Not Detected	9.2	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
4-Ethyltoluene	0.94	Not Detected	4.6	Not Detected
Ethanol	3.7	Not Detected	7.0	Not Detected
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
3-Chloropropene	3.7	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Naphthalene	3.7	Not Detected	20	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-03sep.b/7090314.d
Lab Smp Id: 0808480-01A
Inj Date : 03-SEP-2008 15:24
Operator : ra Inst ID: msd7.i
Smp Info : 200mL #34450
Misc Info : 8.5"Hg-5psi
Comment :
Method : /chem/msd7.i/7-03sep.b/t14q804c.m
Meth Date : 03-Sep-2008 11:07 ctaylor Quant Type: ISTD
Cal Date : 27-AUG-2008 15:00 Cal File: 7082709.d
Als bottle: 1
Dil Factor: 1.87000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	259519	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	205974			26.52- 126.52	79.37
14.347	14.347 (1.000)	49	585701			279.55- 379.55	225.69
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	857628	25.0000		80.00- 120.00	100.00
16.117	16.117 (1.000)	88	149512			0.00- 66.88	17.43
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	892915	25.0000		80.00- 120.00	100.00
21.315	21.315 (1.000)	82	456107			1.24- 101.24	51.08
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.426	15.426 (1.075)	65	458051	23.3661	23.366	80.00- 120.00	100.00
15.426	15.426 (1.075)	67	201583			0.00- 97.37	44.01
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	817480	24.9003	24.900	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	105349			0.00- 63.85	12.89

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	615464			26.51- 126.51	75.29
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	441381	24.0224	24.022	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	629786			87.43- 187.43	142.69
23.278	23.278 (1.092)	176	432283			45.11- 145.11	97.94
45 Acetone					CAS #: 67-64-1		
10.449	10.421 (0.728)	58	50878	4.04888	7.571	80.00- 120.00	100.00
10.449	10.421 (0.728)	43	187161			340.42- 440.42	367.86

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7090314.d
Lab Smp Id: 0808480-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: 8.5"Hg-5psi

Calibration Date: 03-SEP-2008
Calibration Time: 08:51
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	305674	183404	427944	259519	-15.10
97 1,4-Difluorobenze	963819	578291	1349347	857628	-11.02
126 Chlorobenzene-d5	1017675	610605	1424745	892915	-12.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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: 04-Sep-2008 13:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-03sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0808480-01A
Level: LOW Operator: ra
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: 8.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	23.366	93.46	70-130
$ 113 Toluene-d8	25.000	24.900	99.60	70-130
$ 137 Bromofluorobenzene	25.000	24.022	96.09	70-130

Data File: /chem/msd7.i/7-03sep.b/7090314.d

Date : 03-SEP-2008 15:24

Client ID:

Sample Info: 200mL #34450

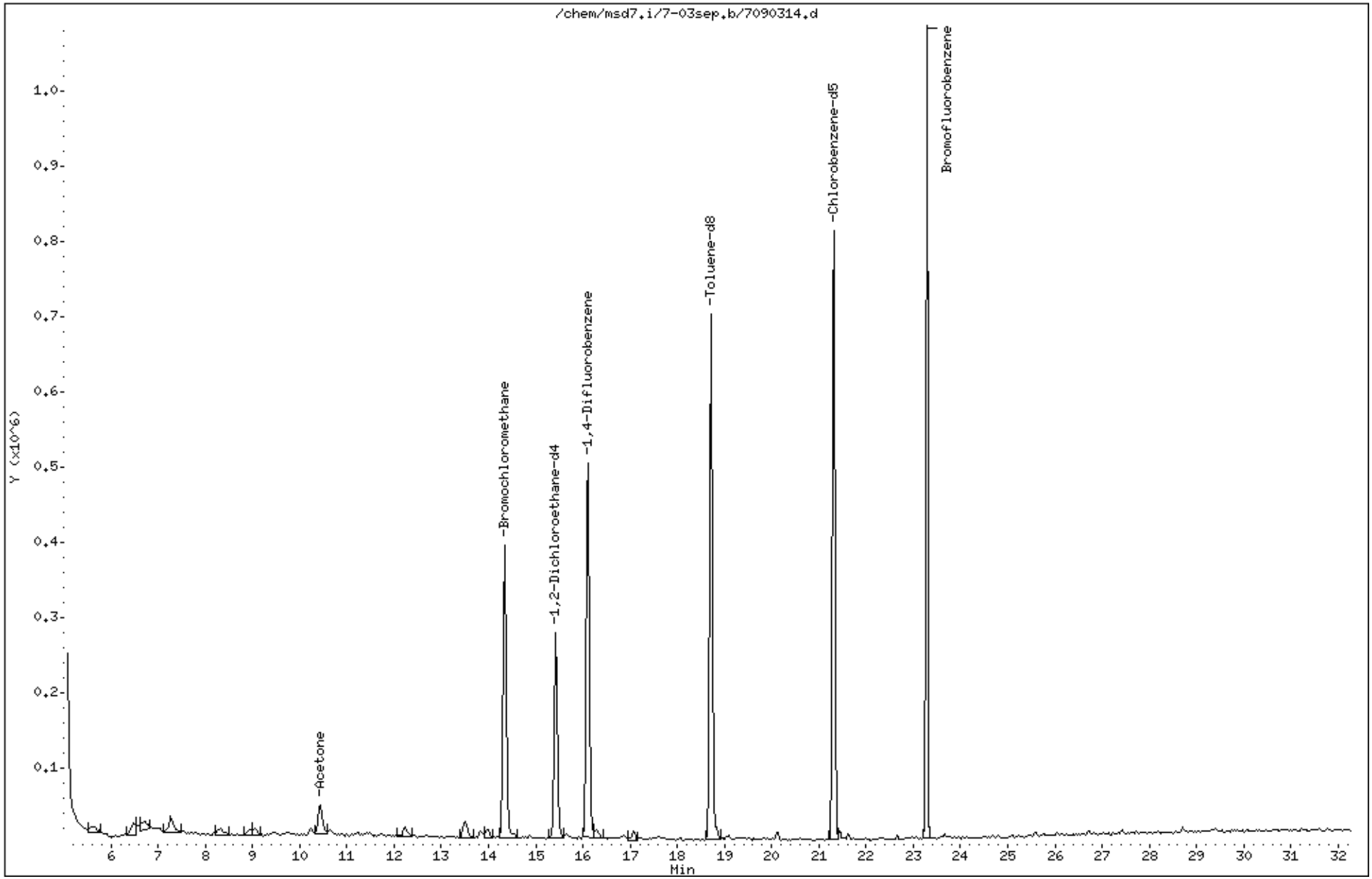
Column phase: RTx-624

Instrument: msd7.i

Operator: ra

Column diameter: 0.53

0013



Data File: /chem/msd7.i/7-03sep.b/7090314.d

Date : 03-SEP-2008 15:24

Client ID:

Instrument: msd7.i

Sample Info: 200mL #34450

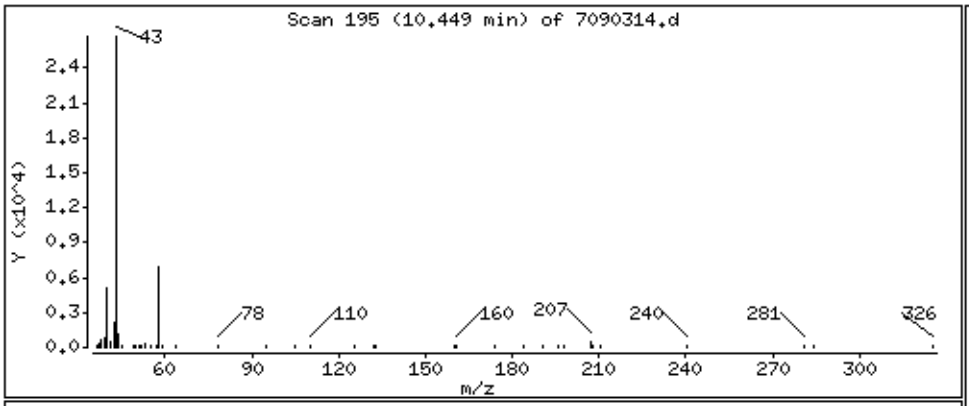
Operator: ra

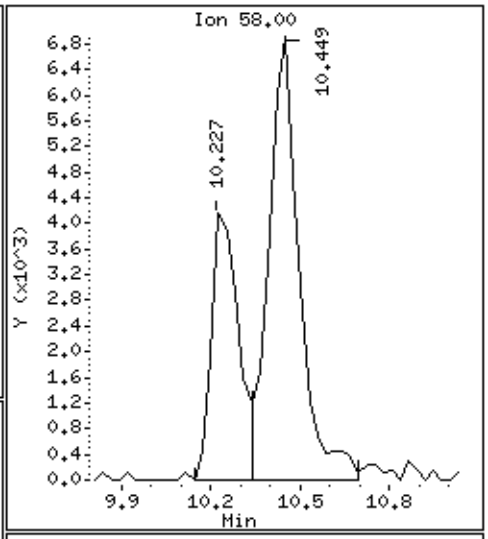
Column phase: RTx-624

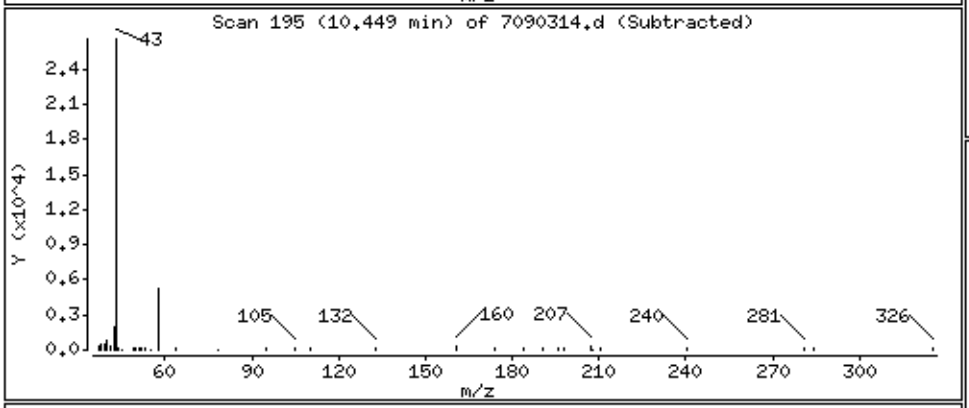
Column diameter: 0.53

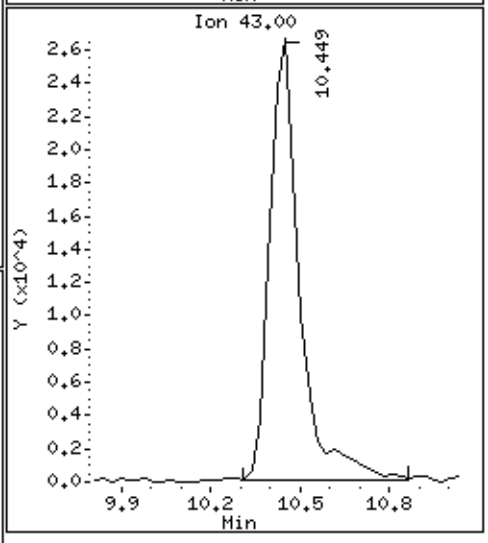
45 Acetone

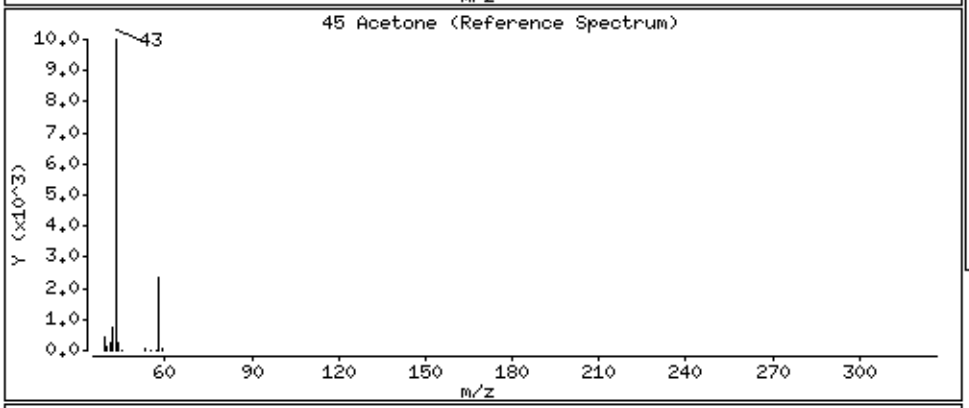
Concentration: 7.571 PPBV

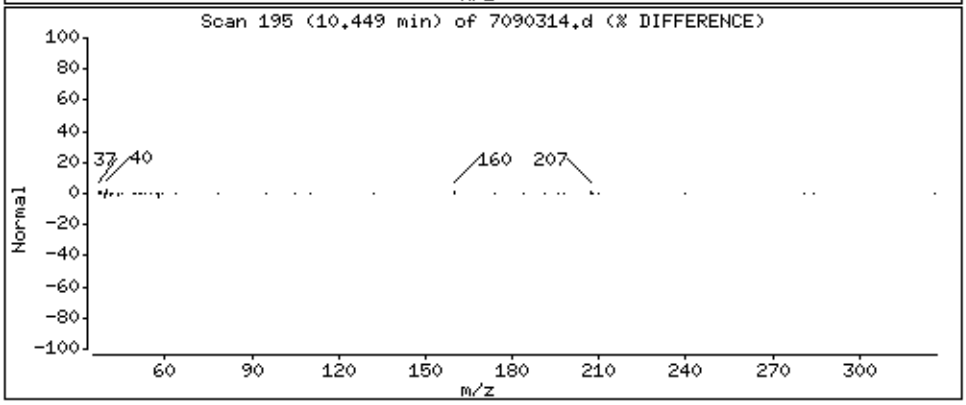












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: VW AMS3

Lab ID#: 0808480-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	24	8.9	58
2-Butanone (Methyl Ethyl Ketone)	0.94	3.6	2.8	11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW AMS3

Lab ID#: 0808480-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090315**	**Date of Collection:**	**8/20/08**
Dil. Factor:	**1.87**	**Date of Analysis:**	**9/3/08 04:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.94	Not Detected	4.6	Not Detected
Freon 114	0.94	Not Detected	6.5	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Bromomethane	0.94	Not Detected	3.6	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.94	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
Methylene Chloride	0.94	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Benzene	0.94	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
Toluene	0.94	Not Detected	3.5	Not Detected
trans-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	Not Detected	6.3	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	Not Detected	4.3	Not Detected
Ethyl Benzene	0.94	Not Detected	4.0	Not Detected
m,p-Xylene	0.94	Not Detected	4.1	Not Detected
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
Cyclohexane	0.94	Not Detected	3.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW AMS3

Lab ID#: 0808480-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090315**	**Date of Collection: 8/20/08**	
Dil. Factor:	**1.87**	**Date of Analysis: 9/3/08 04:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.94	Not Detected	3.8	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
Chloromethane	3.7	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	28	Not Detected
Hexachlorobutadiene	3.7	Not Detected	40	Not Detected
Acetone	3.7	24	8.9	58
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
2-Propanol	3.7	Not Detected	9.2	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	3.6	2.8	11
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
4-Ethyltoluene	0.94	Not Detected	4.6	Not Detected
Ethanol	3.7	Not Detected	7.0	Not Detected
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
3-Chloropropene	3.7	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Naphthalene	3.7	Not Detected	20	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-03sep.b/7090315.d
Lab Smp Id: 0808480-02A
Inj Date : 03-SEP-2008 16:03
Operator : ra Inst ID: msd7.i
Smp Info : 200mL #5558
Misc Info : 8.5"Hg-5psi
Comment :
Method : /chem/msd7.i/7-03sep.b/t14q804c.m
Meth Date : 03-Sep-2008 11:07 ctaylor Quant Type: ISTD
Cal Date : 27-AUG-2008 15:00 Cal File: 7082709.d
Als bottle: 1
Dil Factor: 1.87000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	262460	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	200775			26.52- 126.52	76.50
14.347	14.347 (1.000)	49	580652			279.55- 379.55	221.23
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	852263	25.0000		80.00- 120.00	100.00
16.117	16.117 (1.000)	88	141209			0.00- 66.88	16.57
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	860878	25.0000		80.00- 120.00	100.00
21.315	21.315 (1.000)	82	448155			1.24- 101.24	52.06
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.426 (1.075)	65	456900	23.0462	23.046	80.00- 120.00	100.00
15.425	15.426 (1.075)	67	204637			0.00- 97.37	44.79
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	798388	24.4718	24.472	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	106573			0.00- 63.85	13.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	609814			26.51- 126.51	76.38
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	436414	24.6360	24.636	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	612706			87.43- 187.43	140.40
23.278	23.278 (1.092)	176	422260			45.11- 145.11	96.76
45 Acetone					CAS #: 67-64-1		
10.448	10.421 (0.728)	58	165115	12.9927	24.296	80.00- 120.00	100.00
10.448	10.421 (0.728)	43	680312			340.42- 440.42	412.02
75 2-Butanone					CAS #: 78-93-3		
13.849	13.822 (0.965)	72	16001	1.93189	3.613	80.00- 120.00	100.00
13.822	13.822 (0.963)	43	112414			642.83- 742.83	702.52
13.849	13.822 (0.965)	57	8743			0.00- 97.16	54.64

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7090315.d
Lab Smp Id: 0808480-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: 8.5"Hg-5psi

Calibration Date: 03-SEP-2008
Calibration Time: 08:51
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	305674	183404	427944	262460	-14.14
97 1,4-Difluorobenze	963819	578291	1349347	852263	-11.57
126 Chlorobenzene-d5	1017675	610605	1424745	860878	-15.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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: 04-Sep-2008 13:21

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-03sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0808480-02A
Level: LOW Operator: ra
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: 8.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	23.046	92.18	70-130
$ 113 Toluene-d8	25.000	24.472	97.89	70-130
$ 137 Bromofluorobenzene	25.000	24.636	98.54	70-130

Data File: /chem/msd7.i/7-03sep.b/7090315.d

Date : 03-SEP-2008 16:03

Client ID:

Sample Info: 200mL #5558

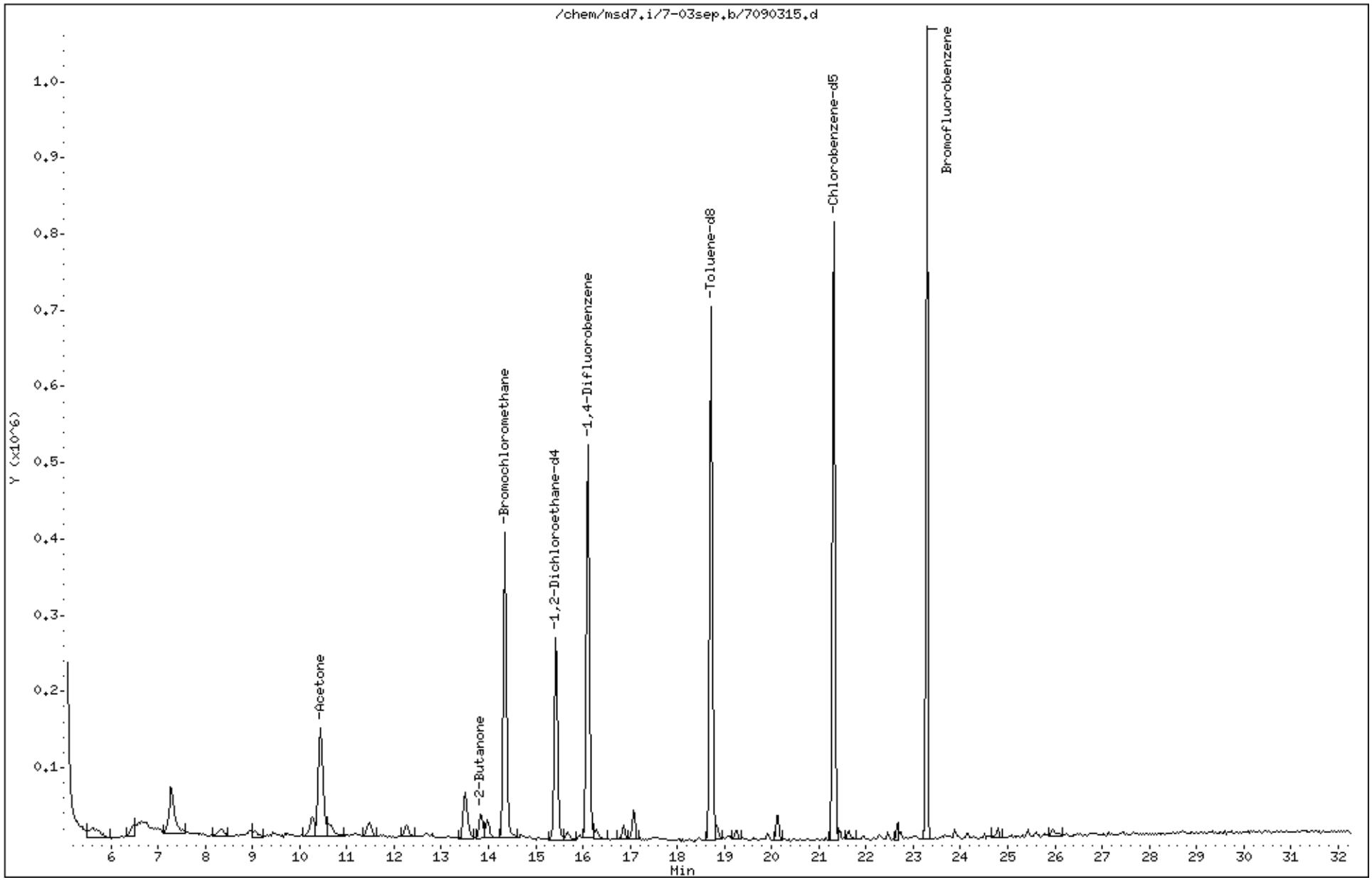
Column phase: RTx-624

Instrument: msd7.i

Operator: ra

Column diameter: 0.53

0022



Data File: /chem/msd7.i/7-03sep.b/7090315.d

Date : 03-SEP-2008 16:03

Client ID:

Instrument: msd7.i

Sample Info: 200mL #5558

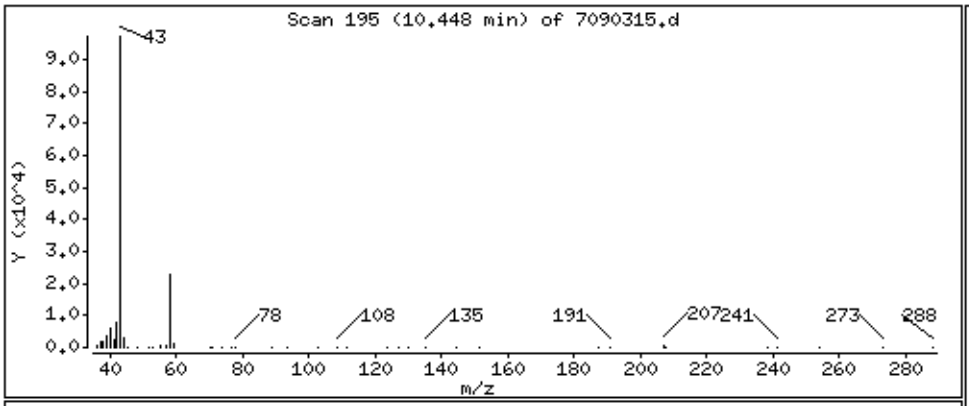
Operator: ra

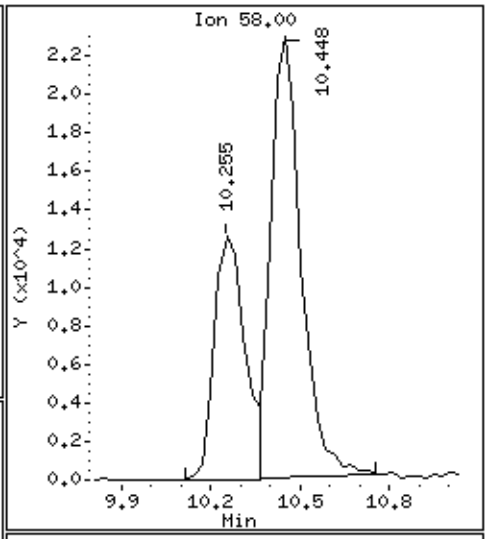
Column phase: RTx-624

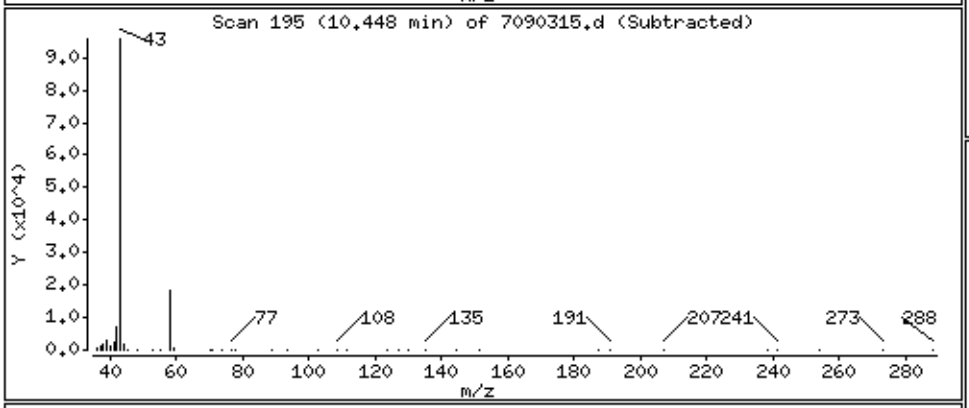
Column diameter: 0.53

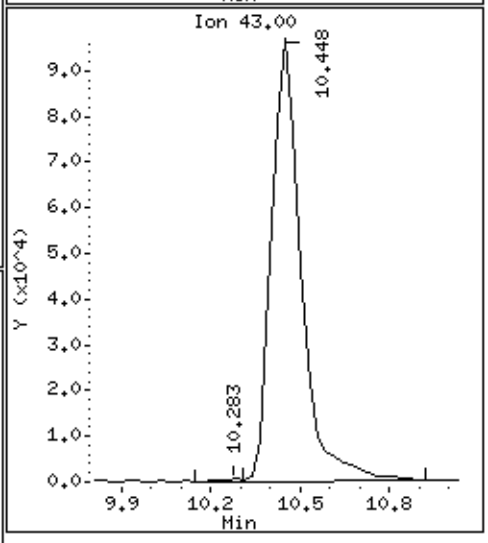
45 Acetone

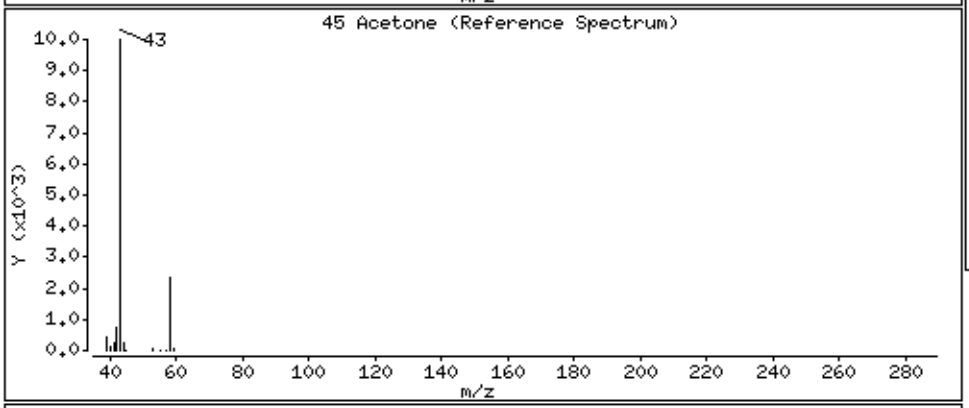
Concentration: 24.296 PPBV

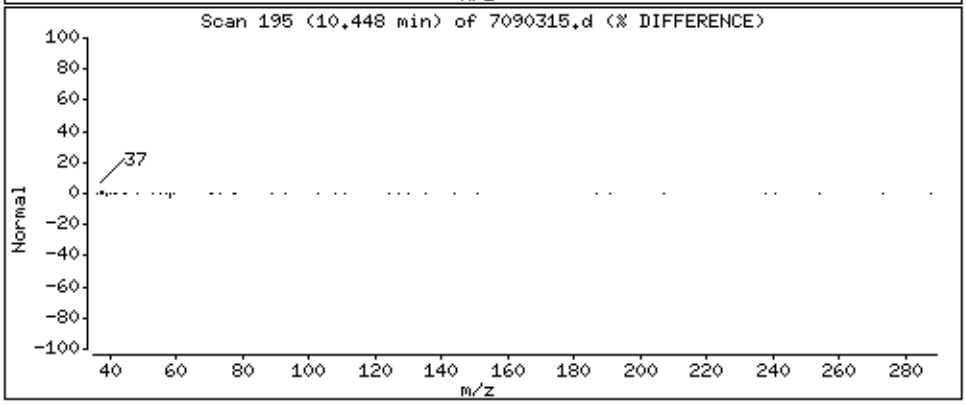












Data File: /chem/msd7.i/7-03sep.b/7090315.d

Date : 03-SEP-2008 16:03

Client ID:

Instrument: msd7.i

Sample Info: 200mL #5558

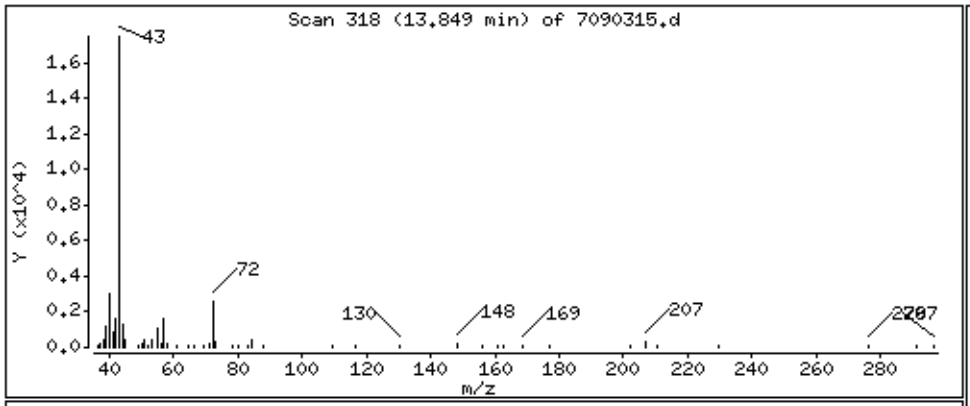
Operator: ra

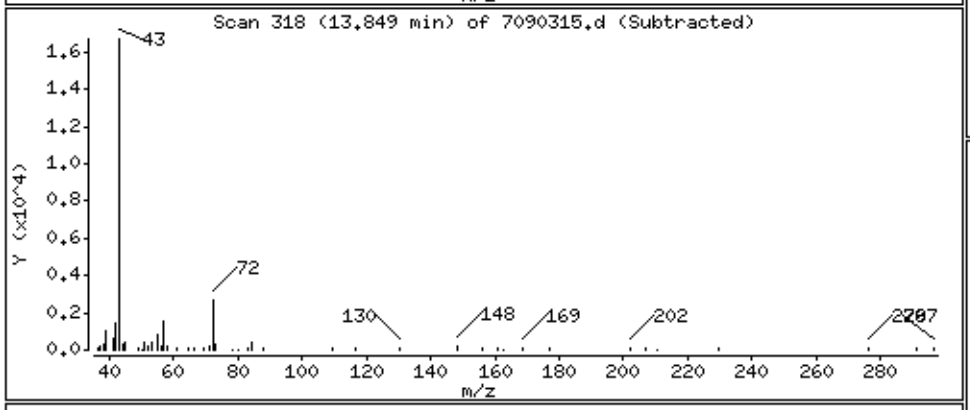
Column phase: RTx-624

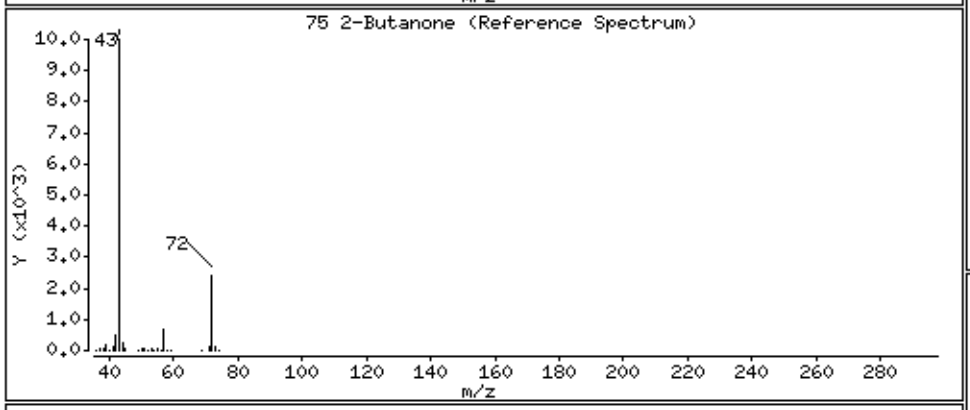
Column diameter: 0.53

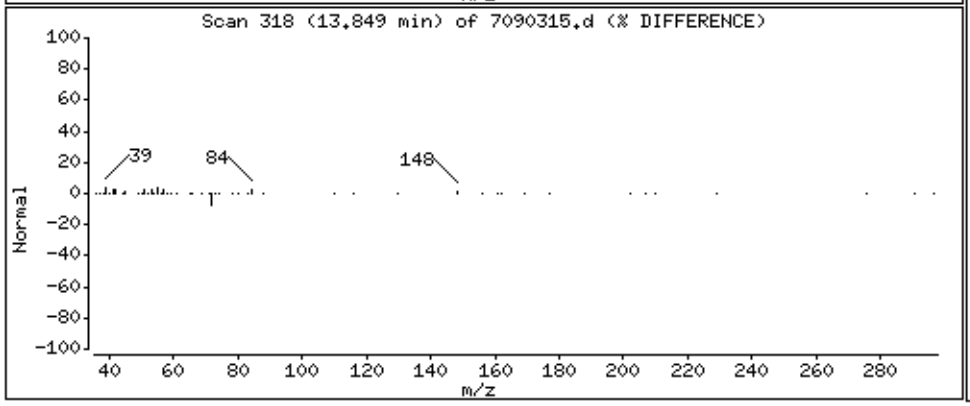
75 2-Butanone

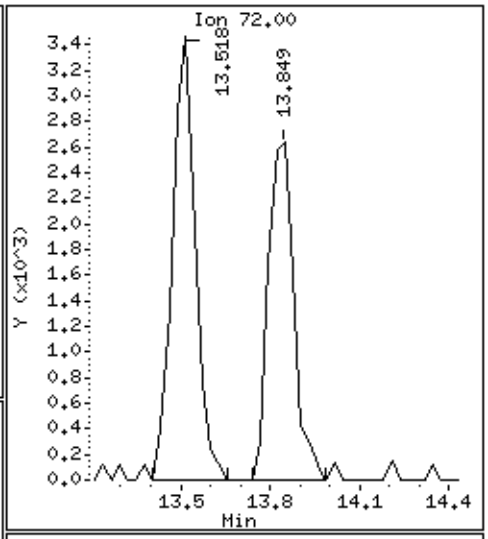
Concentration: 3.613 PPBV

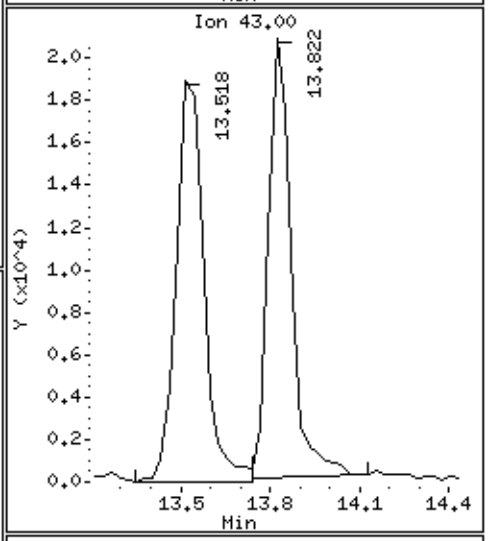


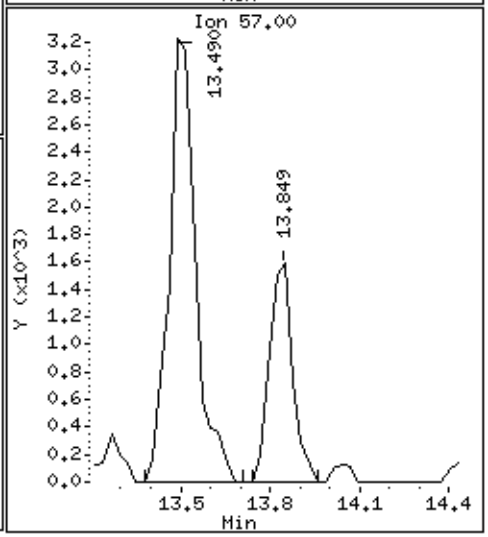












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0808480-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/08 10:09 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0808480-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/08 10:09 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-03sep.b/7090306.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 03-SEP-2008 10:09
Operator : ra Inst ID: msd7.i
Smp Info : 200mL #33668
Misc Info : Humid
Comment :
Method : /var/chem/msd7.i/7-03sep.b/t14q804c.m
Meth Date : 03-Sep-2008 10:44 ctaylor Quant Type: ISTD
Cal Date : 27-AUG-2008 15:00 Cal File: 7082709.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	284009	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	220470			26.52- 126.52	77.63
14.347	14.320 (1.000)	49	628763			279.55- 379.55	221.39
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	885932	25.0000		80.00- 120.00	100.00
16.117	16.089 (1.000)	88	146184			0.00- 66.88	16.50
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	881725	25.0000		80.00- 120.00	100.00
21.315	21.287 (1.000)	82	454615			1.24- 101.24	51.56
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.426 (1.075)	65	487679	22.7323	22.732	80.00- 120.00	100.00
15.425	15.426 (1.075)	67	213851			0.00- 97.37	43.85
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	816521	24.0765	24.076	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	107931			0.00- 63.85	13.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	615703			26.51- 126.51	75.41
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	430477	23.7263	23.726	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	619828			87.43- 187.43	143.99
23.278	23.278 (1.092)	176	424642			45.11- 145.11	98.64

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7090306.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /var/chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: Humid

Calibration Date: 03-SEP-2008
Calibration Time: 08:51
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	305674	183404	427944	284009	-7.09
97 1,4-Difluorobenze	963819	578291	1349347	885932	-8.08
126 Chlorobenzene-d5	1017675	610605	1424745	881725	-13.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

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

Report Date: 03-Sep-2008 10:47

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-03sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: ra
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08a.sub
Method File: /var/chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: Humid

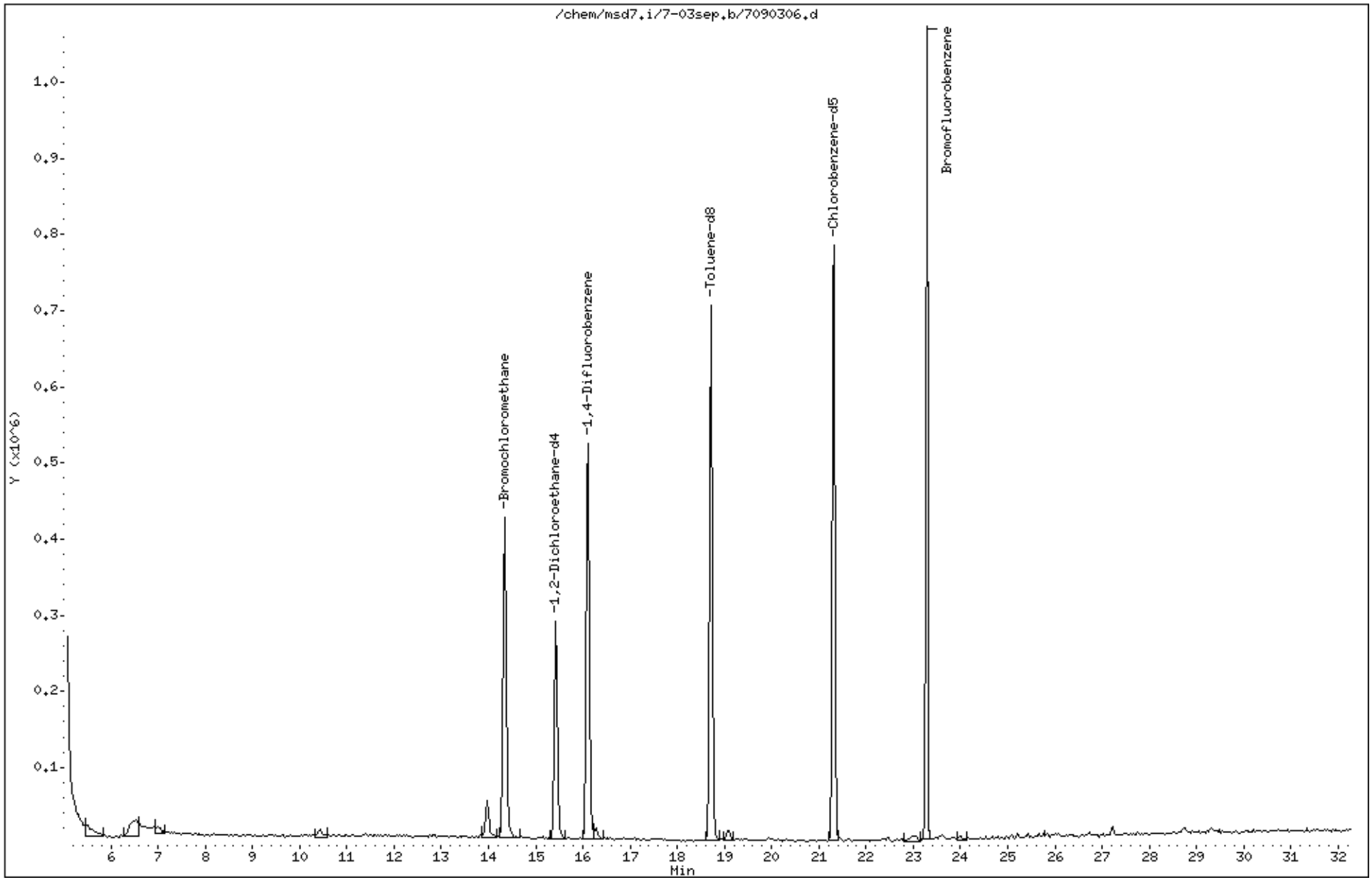
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	22.732	90.93	70-130
$ 113 Toluene-d8	25.000	24.076	96.31	70-130
$ 137 Bromofluorobenzene	25.000	23.726	94.91	70-130

0032

Data File: /chem/msd7.i/7-03sep.b/7090306.d
Date : 03-SEP-2008 10:09
Client ID: Lab Blank
Sample Info: 200mL #33668

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0808480

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 4	93		100		96				0
02	VW AMS3	92		98		98				0
03	Lab Blank	91		96		95				0
04	CCV	96		105		100				0
05	LCS	97		102		99				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0808480
Lab File ID: 7090304.d
Date Analyzed: 09/03/2008
Instrument ID: msd7.i
Time Analyzed: 08:51 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1017675		21.31		963819		16.12		305674		14.35	
	UPPER LIMIT	1424745		21.64		1349347		16.45		427944		14.68	
	LOWER LIMIT	610605		20.98		578291		15.79		183404		14.02	
	CLIENT SAMPLE NO												
01	DW AMS 4	892915		21.31		857628		16.12		259519		14.35	
02	VW AMS3	860878		21.31		852263		16.12		262460		14.35	
03	Lab Blank	881725		21.31		885932		16.12		284009		14.35	
04	CCV	1017675		21.31		963819		16.12		305674		14.35	
05	LCS	1025444		21.31		972712		16.12		304384		14.35	
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 : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd7.i/7-04aug.b/7080417.d
Level 2: /chem/msd7.i/7-04aug.b/7080428.d
Level 3: /chem/msd7.i/7-27aug.b/7082703.d
Level 4: /chem/msd7.i/7-27aug.b/7082709.d
Level 5: /chem/msd7.i/7-27aug.b/7082704.d
Level 6: /chem/msd7.i/7-04aug.b/7080422.d
Level 7: /chem/msd7.i/7-24aug.b/7082406.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 143a	+++++	+++++	0.88017	0.82629	0.86091	+++++	0.76502	0.83310	6.069
6 Freon142b	+++++	+++++	4.21145	4.24181	4.25911	+++++	3.70524	4.10440	6.501
7 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
8 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9 Freon 13	+++++	+++++	0.48641	0.31941	1.00349	+++++	0.49083	0.57503	51.575	<-
10 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Propylene	+++++	+++++	2.19262	2.23902	2.17851	2.00040	2.04782	2.13167	4.790	
12 Dichlorodifluoromethane/Fr12	+++++	6.44420	5.88265	6.51455	6.35593	5.95538	5.92846	6.18020	4.661	
13 Freon 134a	+++++	+++++	1.52644	1.74452	1.67899	+++++	1.54048	1.62261	6.564	
14 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 152a	+++++	+++++	1.21653	1.15273	1.17381	+++++	1.13241	1.16887	3.079	
16 Freon 114	+++++	2.67109	3.20836	3.73314	3.71570	3.35195	3.12839	3.30144	12.089	
17 Freon 22	+++++	+++++	8.33007	7.88520	5.99139	+++++	7.17623	7.34572	13.889	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Chloromethane	+++++	+++++	2.69342	2.80779	2.76539	2.49825	2.37904	2.62878	6.970
19 Butane	+++++	+++++	0.60199	0.51031	0.52314	0.48244	0.49508	0.52259	8.987
20 Vinyl Chloride	+++++	2.84070	2.43912	2.74874	2.70679	2.47461	2.44188	2.60864	6.806
21 Isobutane	+++++	+++++	4.76777	+++++	5.21766	+++++	4.59151	4.85898	6.645
22 1,3-Butadiene	3.07827	2.50909	2.13182	2.46328	2.44813	2.27444	2.29032	2.45648	12.388
23 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Bromomethane	+++++	1.65502	1.48634	1.64395	1.66079	1.56514	1.65434	1.61093	4.391
26 Methanol	+++++	+++++	1.02149	0.68670	0.64641	+++++	0.53087	0.72137	29.209
27 Chloroethane	+++++	1.17686	1.00901	1.27678	1.32046	1.23670	1.25845	1.21304	9.118

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
29 Isopentane	+++++	+++++	3.19072	3.79577	3.74601	3.44666	3.46416	3.52866	6.995
30 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
31 Trichlorofluoromethane/Fr11	+++++	5.55899	6.00168	6.62076	6.65211	6.03426	5.97756	6.14089	6.861
32 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
33 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
34 Dichlorofluoromethane/Fr21	+++++	+++++	3.88046	3.67911	3.82505	+++++	3.51203	3.72416	4.429
35 1-Pentene	+++++	+++++	3.33203	+++++	3.62105	+++++	3.34047	3.43118	4.794
36 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
37 Pentane	+++++	+++++	5.92373	+++++	6.38466	+++++	5.81002	6.03947	5.039

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 Ethanol	+++++	+++++	0.81489	1.06894	1.12946	1.05175	1.02602	1.01821	11.772
39 Ethyl Ether	+++++	+++++	0.91407	+++++	1.05443	+++++	0.98830	0.98560	7.124
40 Freon123a	+++++	+++++	1.63015	1.59430	1.69092	+++++	1.70170	1.65427	3.077
41 Freon123	+++++	+++++	2.76182	2.61309	2.74428	+++++	2.51430	2.65837	4.392
42 Freon 113	+++++	2.17422	2.32912	2.67442	2.67902	2.48304	2.45627	2.46602	7.969
43 1,1-Dichloroethene	+++++	3.71758	4.12034	4.75990	4.69611	4.26746	4.16876	4.28836	9.076
44 Acrolein	+++++	+++++	0.93715	+++++	1.06016	+++++	1.01385	1.00372	6.190
45 Acetone	+++++	+++++	0.98204	1.27858	1.31756	1.22380	1.25053	1.21050	10.934
46 2-Propanol	+++++	+++++	3.63489	5.41720	5.72030	5.42588	5.48443	5.13654	16.517
47 Carbon Disulfide	+++++	4.85063	4.75665	5.55895	5.65190	5.34391	5.43490	5.26616	7.112

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Ethyl acrylate	+++++	+++++	0.07064	+++++	0.07908	+++++	0.07375	0.07449	5.732
49 Iodomethane	+++++	+++++	4.38787	+++++	5.62696	+++++	4.77412	4.92965	12.861
50 Methyl Methacrylate	+++++	+++++	1.05258	+++++	1.27650	+++++	1.14093	1.15667	9.751
51 3-Chloropropene	+++++	+++++	0.68080	0.87850	0.92152	0.88937	0.91704	0.85745	11.710
52 Acetonitrile	+++++	+++++	1.55415	+++++	1.53359	+++++	1.11739	1.40171	17.582
53 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Methylene Chloride	+++++	3.99100	3.45856	3.91944	3.90793	3.61192	3.62085	3.75162	5.747
55 Cyclopentene	+++++	+++++	3.34037	3.61362	3.90612	+++++	3.64230	3.62560	6.379
56 Cyclopentane	+++++	+++++	1.15716	+++++	1.30129	+++++	1.20939	1.22261	5.968
57 tert-Butyl-Alcohol	+++++	+++++	3.07734	2.97292	2.85988	2.53173	2.23675	2.73572	12.649

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 MTBE	+++++	3.07887	2.15050	3.31308	3.49863	3.32369	3.24019	3.10083	15.640
61 trans-1,2-Dichloroethene	+++++	1.52441	1.68788	1.92825	1.97818	1.83083	1.83676	1.79772	9.274
62 Acrylonitrile	+++++	+++++	2.19721	+++++	2.42902	+++++	2.40472	2.34365	5.436
63 2-Pentanone	+++++	+++++	1.92231	+++++	2.44502	+++++	2.20696	2.19143	11.942
64 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Hexane	+++++	3.71589	3.58824	4.62297	4.66035	4.29014	4.22724	4.18414	10.725
66 1-Hexene	+++++	+++++	2.04670	+++++	2.34617	+++++	2.12791	2.17359	7.125
67 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 Isopropyl ether	+++++	+++++	8.62606	9.01530	10.06615	+++++	9.04680	9.18858	6.699
69 Vinyl Acetate	+++++	+++++	0.33816	0.42098	0.45185	0.42411	0.42131	0.41128	10.424
70 1,1-Dichloroethane	+++++	3.86824	4.22443	5.10109	5.01091	4.57455	4.41707	4.53271	10.364
71 1-Propanol	+++++	+++++	0.50243	0.46037	0.55769	+++++	0.52858	0.51227	8.064
72 2,4,4-Trimethyl-2-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 t-Butylethyl Ether	+++++	+++++	5.39185	4.51484	5.44279	+++++	7.31547	5.66624	20.809
74 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 2-Butanone	+++++	0.85878	0.65059	0.79097	0.83935	0.79226	0.80167	0.78894	9.269
76 cis-1,2-Dichloroethene	+++++	3.36521	3.10649	3.71052	3.67310	3.32215	3.22397	3.40024	7.149
77 Ethyl Acetate	+++++	+++++	0.30397	0.36287	0.37928	+++++	0.35729	0.35085	9.297

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
78 2,2-Dichloropropane	+++++	+++++	2.19973	2.07841	2.97094	+++++	2.94370	2.54820	18.646
79 Methyl Acrylate	+++++	+++++	4.57133	+++++	5.73374	+++++	5.35272	5.21927	11.354
80 Tetrahydrofuran	+++++	2.55617	2.26577	3.06861	3.10789	2.87007	2.84496	2.78558	11.549
82 Chloroform	4.11136	3.00053	3.30209	3.61683	3.65732	3.36155	3.27628	3.47514	10.280
83 1,1,1-Trichloroethane	+++++	2.96274	3.28947	3.95807	3.95442	3.60934	3.51515	3.54820	10.897
84 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Cyclohexane	+++++	1.87460	1.62089	1.99435	2.01507	1.85399	1.82537	1.86405	7.610
86 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Carbon Tetrachloride	+++++	3.81705	3.62554	4.42844	4.41424	4.04578	3.97895	4.05167	7.924
88 1,1-Dichloropropene	+++++	+++++	0.21644	0.21672	0.24487	+++++	0.22983	0.22696	5.937

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
89 2,2,4-Trimethylpentane	+++++	9.33403	8.48561	10.91164	11.06159	10.12131		
	9.91373						9.97132	9.736
91 Benzene	1.60244	1.13033	1.24426	1.50237	1.46411	1.31767		
	1.26708						1.36118	12.236
92 tert-amyl-Methyl Ether	+++++	+++++	3.18203	2.59770	2.92134	+++++		
	3.72587						3.10674	15.353
93 1,2-Dichloroethane	+++++	0.86778	0.97133	1.15895	1.11094	0.98938		
	0.93763						1.00600	10.859
94 Heptane	+++++	0.37846	0.37490	0.50597	0.49172	0.45727		
	0.43263						0.44016	12.611
95 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 2-Heptanone	+++++	+++++	2.26682	3.02389	3.83622	+++++		
	3.54319						3.16753	21.721
98 1-Butanol	+++++	+++++	0.40718	0.39867	0.51224	+++++		
	0.53720						0.46382	15.338
99 Isobutanol	+++++	+++++	0.08485	0.06151	0.06605	+++++		
	0.06235						0.06869	15.945
100 trans-1,4-dichloro-2-butene	+++++	+++++	0.21303	+++++	0.21391	+++++		
	0.21056						0.21250	0.816

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
101 Trichloroethene	+++++	0.56041	0.45910	0.66953	0.66089	0.58822	0.56057	0.58312	13.272
102 Methyl Cyclohexane	+++++	1.98916	1.97288	2.49406	2.52706	2.37536	2.36816	2.28778	10.747
103 Alphamethylstyrene	+++++	+++++	1.24574	+++++	1.29791	+++++	1.18203	1.24190	4.673
104 1,2-Dichloropropane	+++++	0.59770	0.55378	0.75318	0.72511	0.65099	0.62010	0.65014	11.750
105 Dibromomethane	+++++	+++++	0.52104	+++++	0.56637	+++++	0.50902	0.53214	5.684
106 1,4-Dioxane	+++++	+++++	0.25617	0.36069	0.36984	0.34009	0.33636	0.33263	13.518
107 Bromodichloromethane	+++++	0.91660	0.92987	1.21751	1.19137	1.07259	1.00711	1.05584	12.160
108 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 cis-1,3-Dichloropropene	+++++	0.56844	0.60679	0.87275	0.87614	0.79712	0.77283	0.74901	17.630

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
111 4-Methyl-2-pentanone	+++++	0.46669	0.41813	0.69309	0.68755	0.62653	0.58873	0.58012	19.751
112 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 Toluene	+++++	1.44328	1.36036	1.67884	1.64006	1.48961	1.44148	1.50894	8.244
115 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 trans-1,3-Dichloropropene	+++++	0.67588	0.67980	0.92925	0.91876	0.83511	0.81625	0.80917	13.723
117 1,1,2-Trichloroethane	+++++	0.46524	0.46950	0.57145	0.56002	0.51887	0.50703	0.51535	8.607
118 1,3-Dichloropropane	+++++	+++++	0.65717	0.68216	0.76395	+++++	0.73548	0.70969	6.867
119 Butyl Acetate	+++++	+++++	0.55410	0.62104	0.77840	+++++	0.73586	0.67235	15.335
120 Tetrachloroethene	+++++	0.65847	0.62470	0.73308	0.72326	0.66740	0.64562	0.67542	6.428
121 2-Hexanone	+++++	+++++	0.54188	0.88905	0.88542	0.81015	0.78474	0.78225	18.148

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 Dibromochloromethane	+++++	0.88742	0.92809	1.24574	1.21826	1.11626	1.07848	1.07904	13.624
123 1,2-Dibromoethane	1.12920	0.86669	0.79930	1.08381	1.05157	0.96891	0.92734	0.97526	12.304
124 Nonane	+++++	+++++	2.17472	+++++	2.15514	+++++	1.75514	2.02833	11.674
125 1,1,1,2-Tetrachloroethane	+++++	+++++	0.70271	0.72046	0.75159	+++++	0.65563	0.70760	5.668
127 Chlorobenzene	+++++	1.38584	1.16015	1.37261	1.31771	1.22233	1.20780	1.27774	7.348
128 Ethyl Benzene	+++++	0.72346	0.61169	0.76024	0.74483	0.67305	0.66760	0.69681	8.042
129 m,p-Xylene	+++++	0.94019	0.78817	0.95822	0.94010	0.87014	0.85257	0.89156	7.412
130 o-Xylene	+++++	0.92578	0.69199	0.88549	0.87281	0.79511	0.77740	0.82476	10.423
131 Styrene	1.15361	1.11265	0.99939	1.45621	1.45304	1.33469	1.28207	1.25595	13.892
132 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 Bromoform	+++++	0.93512	0.72863	1.04640	1.03270	0.93957	0.89801	0.93007	12.333
134 Cumene	2.79720	2.63592	1.88511	2.54654	2.51498	2.30321	2.20288	2.41226	12.669
135 Cyclohexanone	+++++	+++++	0.75458	0.89759	1.01107	+++++	0.95172	0.90374	12.139
136 Bromobenzene	+++++	+++++	0.72338	0.76236	0.73857	+++++	0.65388	0.71955	6.480
138 1,2,3-Trichloropropane	+++++	+++++	0.41379	0.39002	0.39614	+++++	0.34201	0.38549	7.961
139 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 1,1,2,2-Tetrachloroethane	+++++	1.63490	1.17312	1.32493	1.28268	1.16077	1.09156	1.27799	15.217
141 2-Chlorotoluene	+++++	+++++	0.58385	0.62308	0.62063	+++++	0.55513	0.59567	5.447
142 Propylbenzene	+++++	4.12288	2.58363	3.12910	3.03693	2.75916	2.39706	3.00479	20.373
143 4-Chlorotoluene	+++++	+++++	0.60197	0.64415	0.61246	+++++	0.52926	0.59696	8.135

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
144 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
145 4-Ethyltoluene	+++++	4.06215	2.34864	2.89857	2.89537	2.64930	2.42082	2.87914	21.660
146 Diisobutyl Ketone	+++++	+++++	1.72994	2.10588	2.04561	+++++	1.64829	1.88243	12.061
147 1,3,5-Trimethylbenzene	2.94896	3.21786	1.95081	2.22497	2.20607	2.01321	1.92794	2.35569	21.914
148 tert-Butylbenzene	+++++	+++++	1.85376	1.92760	1.80950	+++++	1.62442	1.80382	7.159
149 sec-Butylbenzene	+++++	+++++	2.75950	2.96309	2.77281	+++++	2.42410	2.72988	8.208
150 1,2,4-Trimethylbenzene	2.88099	3.24498	1.80703	2.20246	2.18085	2.01350	1.92698	2.32240	23.021
151 bis(2-chloroethyl)ether	+++++	+++++	1.50192	+++++	1.35437	+++++	1.26292	1.37307	8.783
152 D-Limonene	+++++	+++++	0.85900	1.02002	1.06110	+++++	+++++	0.98004	10.899
153 p-Cymene	+++++	+++++	2.57327	2.76566	2.48840	+++++	2.19627	2.50590	9.449

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
154 1,2,3-Trimethylbenzene	+++++	+++++	0.87562	0.97445	0.87822	+++++	0.81381	0.88552	7.491	
155 1,3-Dichlorobenzene	+++++	2.37474	1.25006	1.43935	1.42519	1.32193	1.27671	1.51467	28.277	
156 1,4-Dichlorobenzene	+++++	2.58797	1.24563	1.49190	1.49531	1.38007	1.33536	1.58937	31.359	<-
157 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 Butylbenzene	+++++	+++++	0.63048	0.64837	0.56555	+++++	0.53042	0.59370	9.296	
159 alpha-Chlorotoluene	+++++	3.38635	1.74871	2.27833	2.36871	2.16899	2.01415	2.32754	24.179	
160 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1,2-Dichlorobenzene	+++++	2.58031	1.21435	1.40297	1.41703	1.30382	1.26137	1.52997	34.025	<-
162 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.77337	0.77398	0.66467	+++++	0.65960	0.71790	8.975	
163 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
164 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
165 1,2,4-Trichlorobenzene	+++++	+++++	0.64988	0.48171	0.72774	0.75994	0.79973	0.68380	18.376
166 Hexachlorobutadiene	+++++	+++++	0.62338	0.46888	0.60048	0.58016	0.58073	0.57073	10.447
167 Naphthalene	+++++	+++++	1.30311	0.93889	1.58400	1.69190	1.82565	1.46871	24.040
168 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
169 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
170 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
199 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
200 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
201 Pentachloroethane	+++++	+++++	0.52623	0.59794	0.57302	+++++	0.51778	0.55374	6.896

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-27aug.b/t14q804c.m
Cal Date : 27-Aug-2008 15:17 rallen
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
202 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Propylene Oxide	+++++	+++++	0.17087	0.14734	0.11860	+++++	+++++	0.14560	17.979
$ 90 1,2-Dichloroethane-d4	1.81900	1.90902	1.95735	1.86465	1.88205	1.86171	1.92515	1.88842	2.433
$ 113 Toluene-d8	0.90355	0.91803	0.92296	0.98737	0.98977	0.97230	1.00506	0.95700	4.282
$ 137 Bromofluorobenzene	0.50497	0.51282	0.50665	0.50883	0.51164	0.52469	0.53142	0.51443	1.921

Calibration History

Method : /chem/msd7.i/7-27aug.b/t14q804c.m
Start Cal Date: 04-AUG-2008 16:14
End Cal Date : 27-AUG-2008 15:00

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
04-AUG-2008 16:14	AFCEElow	/chem/msd7.i/7-04aug.b/7080417.d
Cal Level: 2 , Cal Amount: 0.50000		
05-AUG-2008 11:41	AT08low	/chem/msd7.i/7-04aug.b/7080428.d
Cal Level: 3 , Cal Amount: 2.00000		
27-AUG-2008 09:46	sp2c	/chem/msd7.i/7-27aug.b/7082703.d
24-AUG-2008 11:28	sp19b	/chem/msd7.i/7-24aug.b/7082404.d
05-AUG-2008 14:27	sp37a	/chem/msd7.i/7-05aug.b/7080503.d
04-AUG-2008 18:01	AT08mdl	/chem/msd7.i/7-04aug.b/7080419.d
Cal Level: 4 , Cal Amount: 25.00000		
27-AUG-2008 15:00	sp2c	/chem/msd7.i/7-27aug.b/7082709.d
05-AUG-2008 15:06	sp37a	/chem/msd7.i/7-05aug.b/7080504.d
04-AUG-2008 18:40	AT08mdl	/chem/msd7.i/7-04aug.b/7080420.d
Cal Level: 5 , Cal Amount: 50.00000		
27-AUG-2008 10:42	sp2c	/chem/msd7.i/7-27aug.b/7082704.d
24-AUG-2008 12:12	sp19b	/chem/msd7.i/7-24aug.b/7082405.d
05-AUG-2008 15:45	sp37a	/chem/msd7.i/7-05aug.b/7080505.d
04-AUG-2008 19:20	AT08mdl	/chem/msd7.i/7-04aug.b/7080421.d
Cal Level: 6 , Cal Amount: 100.00000		
04-AUG-2008 20:01	AT08mdl	/chem/msd7.i/7-04aug.b/7080422.d
Cal Level: 7 , Cal Amount: 200.00000		

24-AUG-2008 13:03	sp19b	/chem/msd7.i/7-24aug.b/7082406.d
05-AUG-2008 16:24	sp37a	/chem/msd7.i/7-05aug.b/7080506.d
04-AUG-2008 20:58	AT08mdl	/chem/msd7.i/7-04aug.b/7080423.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
27-AUG-2008 10:42	sp2c	/chem/msd7.i/7-27aug.b/7082704.d

@ Air Toxics Ltd. **MSD-7** **Logbook #: 1706**

0055

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	34.25
75	30.0 – 60.0% of mass 95	51.28
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	(0.73)[1]
174	50.0 – 100% of mass 95	71.98
175	5.0 – 9.0% of mass 174	(6.89)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.48)[1]
177	5.0 – 9.0% of mass 176	(6.55)[2]

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

BFB Injection Date: 8-4-08
BFB Injection Time: 1503
BFB File ID: 7080415
Tekmar Purge Flow: 20ml/min
Vacuum: 2.7×10^{-5}

IS/S Std.#: 1612-59	Exp. Date: 10-3-08
BCM	465852
1,4-DFB	1452055
CB-d5	1558716

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

Verify 176/174 m/z Ratio: 907776/950784 x 100 = 95.47658

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

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(1437194)}{(1452055)} \times \frac{(25.)}{(0.957)} = 25.85594$$

(~~0.98477~~ RA 8-5-08)

Reported Result 25.8~~4~~56 RA 8-5-08

File ID:	7080421a
Compound:	TOL-d8
Initials:	RA

Method: T14g804a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	7080415	BFB Tune Check	1476-434	50ng	2uL	1.00	RA	8-4-08	1503	RA/CT	
2	X	16	ICAL level 1 (200 ppbv)	1612-91	0.30ppbv	0.3mL		RA		1526	RA/CT	wrong method
3	↘	17	ICAL level 2 (200 ppbv)	1622-91	0.5ppbv 8-4-08 RA	0.5mL 8-4-08 RA		RA		1614		
4	X	18	ICAL level 2 (200 ppbv) 8-4-08 CT		0.5ppbv	0.5mL		RA		1722		
5	↘	19	ICAL level 3 (200 ppbv)		2.0ppbv	2.0mL				1801		
6	↘	20	ICAL Level 4 (200 ppbv)		2.5ppbv	2.5mL				1840		
7	↘	21	ICAL level 5 (200 ppbv)		50ppbv	50mL	↓	↓	↓	1920	↓	

Signature

8/4/08
Date

@ Air Toxics Ltd.

MSD-7

Logbook #: 1706

8	✓	7080422	ICAL Level 6 (200 ppbv)	1612-91	100ppbv	100mL	1.00	CT	8/4/08	2001	RA/ C.T.	
9	✓	-23	↓ 7 ↓	↓	200ppbv	200mL	↓	↓	8/4/08	2058	RA/ C.T.	
10	✓	-24	System Blank	33668	Humid	200mL	1.00	C.T.	8/5/08	905	RA/CT	
11	X	25	ICAL level 2 (200 ppbv)	1612-91	0.5ppbv	0.5mL	1.00	RA	8/5/08	944	RA/CT	Bad Load
12	X	26	LCS-1 (100ppbv)	1612-76A	50ppbv	100mL	1.00	RA	8/5/08	1022	RA/ C.T.	Curve not finished
13	✓	27	System Blank	33668	Humid	200mL	1.00	RA	8/5/08	1103	RA/ C.T.	
14	✓	28	ICAL level 2 (200 ppbv)	1612-91	0.5ppbv	0.5mL	1.00	RA	8/5/08	1141	RA/CT	
15	✓	29	LCS-1 (100ppbv)	1612-76A	50ppbv	100mL	1.00	RA	8/5/08	1227	RA/	ICAL LCS
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												8-5-08 C.T.
31												

9500

Comments: Flow Controller #AA99123141 Actual 24.5mL/min

Nist Flow meter US03623372 Exp 1-29-09 Nominal 23.6mL/min

C Taylor
Signature

8-5-08
Date

@ Air Toxics Ltd. **MSD-7** Logbook #: 1706

0057

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	35.35
75	30.0 – 60.0% of mass 95	51.73
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.64
173	Less than 2.0% of mass 174	(0.65)[1]
174	50.0 – 100% of mass 95	72.52
175	5.0 – 9.0% of mass 174	(7.07)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.04)[1]
177	5.0 – 9.0% of mass 176	(6.32)[2]

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

BFB Injection Date: 8-5-08
BFB Injection Time: 1320
BFB File ID: 7080501
Tekmar Purge Flow: 20 ml/mn
Vacuum: 2.5×10^{-5}

IS/S Std.#: 1612-59	Exp. Date: 10-3-08
BCM	4536 39
1,4-DFB	1424755
CB-d5	1550730

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

Verify 176/174 m/z Ratio: 887104 / 923776 x 100 = 96.03021 **NOAH Cart #:** N/A **File #:** N/A

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1417628)}{(1424755)} \times \frac{(25.0)}{(0.95700)} = 25.993$

Reported Result 25.992

File ID:	7080507
Compound:	Tol-d8
Initials:	SJR

Method: T14Q804a
T14QMeOH804a

	Use	File # (RA 8-5-08)	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	7080501	BFB Tune Check	1476-434	50 ng	2 uL	1.00	RA	8-5-08	1320	RA / SJR	
2	✓	02	~~System Blank~~ Blank	336608	Humid	200mL	1.00	RA	8-5-08	1346	RA / SJR	
3	✓	03	ICAL level 3	1612-99	2/12 ppbv	2.0mL	1.00	RA		1427	RA / SJR	
4	✓	04	ICAL level 4	1612-99	8/48 ppbv	8mL	1.00	RA		1506	RA / SJR	
5	✓	05	ICAL level 5	1612-99	50/300 ppbv	50mL	1.00	RA		1545	SJR	sp37a CCV
6	✓	06	ICAL level 7	1612-99	200/1200 ppbv	200mL	1.00	RA		1624	SJR	
7	✓	07	CCV-1 (200mL)	1612-91	50 ppbv	50mL	1	SJR		1758	SJR	0 out

SJR
Signature

8/5/08
Date

@ Air Toxics Ltd. **MSD-7** Logbook #: 1706

0058

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	32.95
75	30.0 – 60.0% of mass 95	48.03
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.58
173	Less than 2.0% of mass 174	(0.74)[1]
174	50.0 – 100% of mass 95	72.16
175	5.0 – 9.0% of mass 174	(6.93)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.77)[1]
177	5.0 – 9.0% of mass 176	(6.49)[2]

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

Verify 176/174 m/z Ratio: 712128 / 735936 ×100 = 96.76 ✓

BFB Injection Date: 8-24-08
BFB Injection Time: 0856
BFB File ID: 7082401
Tekmar Purge Flow: 15.6mL/min
Vacuum: 2.6×10^{-5}

IS/S Std.#:	1612-59	Exp. Date: 10-3-08
BCM	379391	
1,4-DFB	1237836	
CB-d5	1280879	

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

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1216650\ )}{(\ 1237836\ )} \times \frac{(\ 25\ )}{(\ 0.95700\ )} =$ 25.676

MR 8-24-08

File ID:	7082403
Compound:	Toluene-d8
Initials:	MR

Reported Result 25.676 ✓

Method: ~~T14q804a~~ T14q8046

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1 ✓	7082401	BFB Tune Check	1476-434	50ng	2µL	1.00	MR	8-24-08	0856	MR/C.T.	
2 X	7082402	CCV-1 50ppbv (200ppbv)	1612-94	50ppbv	50mL	1.00	MR	8-24-08	0950	MR/↓	1612-94 Wrong method
3 ✓	7082403	CCV-1 50ppbv (200ppbv)	1612-94	50ppbv	↓	↓	↓	↓	1019	MR/C.T.	Napth↑
4 ~~—~~	~~7082404~~	~~CCVsp 50ppbv (200ppbv)~~	~~1541-242~~	~~50ppbv~~	~~50mL~~	~~1.00~~	~~MR~~	~~8-24-08~~			
5 ✓	7082404	ICAL Level 3	1541-242	2.0 ppbv	2.0mL	1.00	MR	8-24-08	1128	MR/C.T.	sp196 ATSpecial
6 ✓	↓ 05	↓ Level 5	↓	50 ppbv	50mL	↓	↓	↓	1212	↓/C.T.	T14q8046
7 ✓	↓ 06	↓ Level 7	↓	200 ppbv	200mL	↓	↓	↓	1303	↓/C.T.	

Signature

8-24-08
Date

@ Air Toxics Ltd. HR 8-24-08

MSD-7

Logbook #: 1706

8	70824007	LCS-1 50ppbv (100ppbv)	1612-76A	50ppbv	100mL	1.00	HR	8-24-08	1355	HR	1,2,4-TCB↑, Napth↑
9	7093405	Lab Blank	3366	Humid	200mL	1.00	HR	8-24-08			
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											

0059

Comments:

HR 8-24-08

Signature

8-24-08
Date

@ Air Toxics Ltd.

MSD-7

Logbook #: 1706

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	35.65
75	30.0 – 60.0% of mass 95	52.32
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	(0.73)[1]
174	50.0 – 100% of mass 95	66.83
175	5.0 – 9.0% of mass 174	(7.31)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.03)[1]
177	5.0 – 9.0% of mass 176	(6.73)[2]

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

Verify 176/174 m/z Ratio: 493760/514176 × 100 = 96.03

BFB Injection Date: 8-27-08
BFB Injection Time: 0813
BFB File ID: 7082701
Tekmar Purge Flow: 15.9mL/min
Vacuum: 2.7×10^{-5}

IS/S Std.#:	1612-59	Exp. Date: 10-3-08
BCM	312734	
1,4-DFB	994459	
CB-d5	1074720	

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

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 987300\ )}{(\ 994459\ )} \times \frac{(\ 25\ )}{(\ 0.95700\ )} =$ 25.935

File ID:	7082702
Compound:	TOL-d8
Initials:	RA

Reported Result 25.935

Method: ~~TH-8046~~ RA 8-27-08 TH-804C

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	7082701	BFB Tune Check	1476-476	50psig	2mL	1.00	RA	8-27-08	0813	RA/CT	
2	✓	02	CCV-1 (200ppbv)	1612-94	50ppbv	50mL				0832	RA/CT	∅ out
3	✓	03	ICAL level 3	1541-251	2ppbv	2.0mL				0946	RA/CT	
4	✓	04 RA 8-27-08	ICAL level 5	↓	50ppbv	50mL				1042	RA/CT	~~Split CCV~~ SB2 CCV
5	X	05	ICAL level 7	↓	200ppbv	200mL				1129	RA/CT	Not used
6	✓	06	CCVsp (200ppbv)	1612-99	50ppbv	50mL				1225	RA/CT	
7	X	07	ICAL level 6	1541-251	100ppbv	100mL	↓	↓	↓	1316	RA/CT	Not used

RCM
Signature

8-27-08
Date

0090

@ Air Toxics Ltd.

MSD-7

Logbook #: 1706

8	✓	7082708	LCS-1 (100ppbv)	1612-76A	25ppbv	50mL	1.00	RA	8-27-08	1357	SM	
9	✓	09	ICAL level 4	1541-251	25ppbv	25mL				1500	RA / CT	
10		10	Lab Blank	336608	Humid	200mL						
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

RA 8-27-08

1900

Comments:

Signature

8-27-08
Date

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-7 on 8-5-08.

As noted on the accompanying analytical run log(s), Level 2 was re-analyzed due to an anomalous unacceptable linearity for 4-Ethyltoluene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, alpha-Chlorotoluene, 1,2-Dichlorobenzene.

The following compounds used 0.3 ppbv as the lowest calibration concentration:
Chloroform, Benzene, Styrene, 1,3-Butadiene, 1,2-Dibromoethane, Cumene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, .

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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080429.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 05-AUG-2008 12:27
Operator : ra Inst ID: msd7.i
Smp Info : 100mL #1612-76A
Misc Info : 50 ppbv (100 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:14 sscott Quant Type: ISTD
Cal Date : 04-AUG-2008 20:58 Cal File: 7080423.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.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		
14.347	14.347 (1.000)	130	459876	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	357064			27.26- 127.26	77.64
14.347	14.347 (1.000)	49	1602531			253.14- 353.14	348.47
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1464149	25.0000		50.00- 150.00	100.00
16.089	16.117 (1.000)	88	249389			0.00- 67.42	17.03
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1546866	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	786737			1.03- 101.03	50.86
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.426 (1.075)	65	853369	24.5662	24.566	50.00- 150.00	100.00
15.425	15.426 (1.075)	67	437016			0.00- 97.37	51.21
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1424045	25.4077	25.408	50.00- 150.00	100.00
18.716	18.716 (1.161)	70	191733			0.00- 63.85	13.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	1090633			26.51- 126.51	76.59
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	807058	25.3551	25.355	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1086092			89.41- 189.41	134.57
23.278	23.278 (1.092)	176	763214			45.98- 145.98	94.57
11 Propylene					CAS #: 115-07-1		
5.638	5.638 (0.393)	41	1989645	50.7405	50.740	50.00- 150.00	100.00
5.610	5.638 (0.391)	42	1320971			16.57- 116.57	66.39
5.638	5.638 (0.393)	39	1550089			28.60- 128.60	77.91
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.776 (0.401)	85	5398566	47.4871	47.487	50.00- 150.00	100.00
5.748	5.776 (0.401)	87	1728049			0.00- 81.85	32.01
16 Freon 114					CAS #: 76-14-2		
6.218	6.274 (0.433)	135	3114245	51.2801	51.280	50.00- 150.00	100.00
6.218	6.274 (0.433)	137	996625			0.00- 84.02	32.00
18 Chloromethane					CAS #: 74-87-3		
6.550	6.578 (0.457)	50	2283535	47.2229	47.223	50.00- 150.00	100.00
6.550	6.578 (0.457)	52	723994			0.00- 81.05	31.70
20 Vinyl Chloride					CAS #: 75-01-4		
6.882	6.882 (0.480)	62	2292246	47.7690	47.769	50.00- 150.00	100.00
6.854	6.882 (0.478)	64	668106			0.00- 84.96	29.15
22 1,3-Butadiene					CAS #: 106-99-0		
6.937	6.965 (0.484)	54	2036008	45.0573	45.057	50.00- 150.00	100.00
6.937	6.965 (0.484)	39	2135886			46.88- 146.88	104.91
25 Bromomethane					CAS #: 74-83-9		
8.015	8.016 (0.559)	94	1442291	48.6716	48.672	50.00- 150.00	100.00
8.015	8.016 (0.559)	96	1298119			41.33- 141.33	90.00
27 Chloroethane					CAS #: 75-00-3		
8.347	8.347 (0.582)	64	1105673	49.5506	49.551	50.00- 150.00	100.00
8.347	8.347 (0.582)	49	424479			0.00- 94.43	38.39
8.347	8.347 (0.582)	66	326325			0.00- 79.28	29.51
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.955	8.956 (0.624)	101	5535785	49.0057	49.006	50.00- 150.00	100.00
8.955	8.956 (0.624)	103	3516539			15.68- 115.68	63.52

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.426	9.453 (0.657)	45	910031	48.5866	48.586	50.00- 150.00	100.00
9.426	9.453 (0.657)	43	205356			0.00- 73.90	22.57
9.426	9.453 (0.657)	46	345043			0.00- 88.16	37.92
42 Freon 113					CAS #: 76-13-1		
10.172	10.200 (0.709)	151	2482581	54.7277	54.728	50.00- 150.00	100.00
10.172	10.200 (0.709)	153	1578658			16.40- 116.40	63.59
10.172	10.200 (0.709)	101	3726002			100.01- 200.01	150.09
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.310 (0.717)	61	4351119	55.1581	55.158	50.00- 150.00	100.00
10.310	10.310 (0.719)	96	1624522			0.00- 86.92	37.34
10.310	10.310 (0.719)	98	1004819			0.00- 74.85	23.09
45 Acetone					CAS #: 67-64-1		
10.421	10.449 (0.726)	58	1140508	51.2191	51.219	50.00- 150.00	100.00
10.421	10.449 (0.726)	43	4449365			340.42- 440.42	390.12
46 2-Propanol					CAS #: 67-63-0		
10.642	10.642 (0.742)	45	4925474	52.1287	52.129	50.00- 150.00	100.00
10.642	10.642 (0.742)	43	1140141			0.00- 76.39	23.15
10.614	10.642 (0.740)	59	155196			0.00- 53.62	3.15
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	4831077	49.8712	49.871	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	799668	50.6994	50.699	50.00- 150.00	100.00
11.112	11.112 (0.775)	41	3465866			377.54- 477.54	433.41
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.472 (0.798)	49	3593829	52.0761	52.076	50.00- 150.00	100.00
11.444	11.472 (0.798)	84	1381474			0.00- 86.35	38.44
11.444	11.472 (0.798)	51	1076921			0.00- 80.54	29.97
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	2828379	49.5860	49.586	50.00- 150.00	100.00
11.776	11.776 (0.821)	57	924348			0.00- 84.58	32.68
11.776	11.776 (0.821)	41	977587			0.00- 86.33	34.56
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	1671333	50.5406	50.541	50.00- 150.00	100.00
11.886	11.886 (0.828)	61	3820020			183.94- 283.94	228.56
11.886	11.886 (0.828)	98	1034942			13.50- 113.50	61.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	3958091	51.4256	51.426	50.00- 150.00	100.00
12.246	12.246 (0.854)	43	2638875			20.34- 120.34	66.67
12.246	12.246 (0.854)	86	401925			0.00- 61.25	10.15
69 Vinyl Acetate					CAS #: 108-05-4		
12.743	12.716 (0.888)	86	384617	50.8377	50.838	50.00- 150.00	100.00
12.716	12.716 (0.886)	43	7404092			1872.40-1972.40	1925.06
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	4409157	52.8806	52.881	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	1292532			0.00- 81.43	29.31
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	736615	50.7572	50.757	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	5101362			602.07- 702.07	692.54
13.822	13.822 (0.963)	57	387955			0.00- 97.16	52.67
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.877 (0.967)	61	3174685	50.7563	50.756	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	1539100			0.00- 97.05	48.48
13.877	13.877 (0.967)	98	949623			0.00- 80.30	29.91
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.320 (0.998)	42	2643354	51.5868	51.587	50.00- 150.00	100.00
14.319	14.320 (0.998)	71	666374			0.00- 76.49	25.21
14.319	14.320 (0.998)	72	690318			0.00- 78.71	26.12
82 Chloroform					CAS #: 67-66-3		
14.402	14.403 (1.004)	83	3166707	49.5376	49.538	50.00- 150.00	100.00
14.402	14.403 (1.004)	85	2271993			20.65- 120.65	71.75
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	3381219	51.8041	51.804	50.00- 150.00	100.00
14.762	14.762 (1.029)	99	2145123			14.99- 114.99	63.44
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	1663602	48.5168	48.517	50.00- 150.00	100.00
14.790	14.790 (1.031)	56	3353797			145.33- 245.33	201.60
14.790	14.790 (1.031)	41	2068210			73.65- 173.65	124.32
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.039 (1.048)	119	3745972	50.2609	50.261	50.00- 150.00	100.00
15.038	15.039 (1.048)	117	3912325			55.00- 155.00	104.44
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	9354574	51.0001	51.000	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
15.370	15.370 (1.071)	56	3106209			0.00- 82.54	33.21
15.370	15.370 (1.071)	41	2759884			0.00- 80.37	29.50
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	3866415	48.5007	48.501	50.00- 150.00	100.00
15.453	15.453 (0.959)	77	849635			0.00- 71.75	21.97
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	2977082	50.5297	50.530	50.00- 150.00	100.00
15.564	15.564 (0.966)	64	904649			0.00- 82.49	30.39
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	1333044	51.7119	51.712	50.00- 150.00	100.00
15.647	15.647 (0.971)	43	3708107			238.48- 338.48	278.17
15.647	15.647 (0.971)	57	1919811			102.27- 202.27	144.02
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	1738250	50.8991	50.899	50.00- 150.00	100.00
16.587	16.587 (1.029)	130	1714979			54.15- 154.15	98.66
16.587	16.587 (1.029)	97	1078306			16.17- 116.17	62.03
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	1875300	49.2511	49.251	50.00- 150.00	100.00
17.057	17.057 (1.058)	62	1349951			21.69- 121.69	71.99
17.057	17.057 (1.058)	41	1516440			32.68- 132.68	80.86
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	1004663	51.5722	51.572	50.00- 150.00	100.00
17.195	17.195 (1.067)	58	974619			48.37- 148.37	97.01
17.195	17.195 (1.067)	57	349868			0.00- 86.44	34.82
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	3129237	50.6051	50.605	50.00- 150.00	100.00
17.499	17.499 (1.086)	85	2227484			20.11- 120.11	71.18
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	2300754	52.4489	52.449	50.00- 150.00	100.00
18.273	18.273 (1.134)	77	705743			0.00- 85.03	30.67
18.273	18.273 (1.134)	39	2131217			43.00- 143.00	92.63
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	1878403	55.2870	55.287	50.00- 150.00	100.00
18.467	18.467 (1.146)	43	5490590			244.73- 344.73	292.30
18.467	18.467 (1.146)	85	585581			0.00- 81.51	31.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	4507526	51.0060	51.006	50.00- 150.00	100.00
18.826	18.826 (1.168)	92	2799657			10.54- 110.54	62.11
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	2530233	50.5365	50.536	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	775804			0.00- 80.88	30.66
19.269	19.269 (0.904)	39	2103298			33.61- 133.61	83.13
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	1567144	49.1463	49.146	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	966208			12.31- 112.31	61.65
19.601	19.601 (0.920)	83	1331967			34.26- 134.26	84.99
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	2079493	49.7587	49.759	50.00- 150.00	100.00
19.766	19.794 (0.927)	129	1744406			35.18- 135.18	83.89
19.766	19.794 (0.927)	131	1746180			33.48- 133.48	83.97
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	2575539	53.2122	53.212	50.00- 150.00	100.00
19.905	19.905 (0.934)	43	5459032			161.51- 261.51	211.96
19.905	19.905 (0.934)	100	344471			0.00- 63.21	13.37
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	3428534	51.3520	51.352	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	2687686			29.59- 129.59	78.39
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	2921754	48.4184	48.418	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	2706353			39.77- 139.77	92.63
127 Chlorobenzene					CAS #: 108-90-7		
21.342	21.343 (1.001)	112	3748452	47.4130	47.413	50.00- 150.00	100.00
21.342	21.343 (1.001)	114	1188635			0.00- 83.15	31.71
21.342	21.343 (1.001)	77	2316680			21.80- 121.80	61.80
128 Ethyl Benzene					CAS #: 100-41-4		
21.425	21.426 (1.005)	106	2100083	48.7089	48.709	50.00- 150.00	100.00
21.425	21.426 (1.005)	91	6367071			261.34- 361.34	303.18
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.619 (1.016)	106	2588504	46.9228	46.923	50.00- 150.00	100.00
21.619	21.619 (1.014)	91	5202624			147.02- 247.02	200.99
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	2471120	48.4231	48.423	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	5145743			158.66- 258.66	208.24
131 Styrene					CAS #: 100-42-5		
22.365	22.366 (1.049)	104	3995320	51.4122	51.412	50.00- 150.00	100.00
22.365	22.366 (1.049)	78	2083207			10.48- 110.48	52.14
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	2902556	50.4372	50.437	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	1508240			2.34- 102.34	51.96
134 Cumene					CAS #: 98-82-8		
22.918	22.919 (1.075)	105	7303861	48.9345	48.934	50.00- 150.00	100.00
22.918	22.919 (1.075)	120	1983345			0.00- 77.95	27.15
22.891	22.919 (1.074)	51	1143556			0.00- 67.08	15.66
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	3670241	46.4145	46.414	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	2596074			21.97- 121.97	70.73
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	8852660	47.6153	47.615	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	2155649			0.00- 73.91	24.35
23.582	23.582 (1.106)	105	347854			0.00- 54.14	3.93
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	8308384	46.6381	46.638	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	2700704			0.00- 82.75	32.51
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	6208016	42.5915	42.591	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	3140035			1.24- 101.24	50.58
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.495 (1.149)	105	6155801	42.8386	42.838	50.00- 150.00	100.00
24.494	24.495 (1.149)	120	2948338			0.00- 97.02	47.90
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	4052627	43.2421	43.242	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	2566457			12.07- 112.07	63.33
25.075	25.075 (1.176)	111	1791568			0.00- 94.74	44.21
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.213 (1.184)	146	4181416	42.5192	42.519	50.00- 150.00	100.00
25.241	25.213 (1.184)	148	2646032			13.30- 113.30	63.28
25.213	25.213 (1.183)	111	1755827			0.00- 92.03	41.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.435	25.435 (1.193)	91	6777693	47.0621	47.062	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	1376906			0.00- 69.83	20.32
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	4010261	42.3619	42.362	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	2505568			12.84- 112.84	62.48
25.877	25.877 (1.214)	111	1785264			0.00- 95.15	44.52
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.752	28.753 (1.349)	180	2239207	52.9241	52.924	50.00- 150.00	100.00
28.752	28.753 (1.349)	182	2109678			44.64- 144.64	94.22
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	1748655	49.5181	49.518	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	1118890			13.71- 113.71	63.99
29 Isopentane					CAS #: 78-78-4		
8.347	8.347 (0.582)	43	3101213	47.7772	47.777	50.00- 150.00	100.00
8.347	8.347 (0.582)	57	2034529			17.61- 117.61	65.60
19 Butane					CAS #: 106-97-8		
6.771	6.827 (0.472)	58	444675	46.2571	46.257	50.00- 150.00	100.00
6.771	6.827 (0.472)	43	3869689			787.53- 887.53	870.23
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	2176774	51.7247	51.725	50.00- 150.00	100.00
16.863	16.863 (1.175)	98	976990			0.00- 97.34	44.88
16.863	16.863 (1.175)	55	3086449			95.79- 195.79	141.79
167 Naphthalene					CAS #: 91-20-3		
29.305	29.306 (1.375)	128	4886183	53.7677	53.768	50.00- 150.00	100.00
29.305	29.306 (1.375)	127	602268			0.00- 62.37	12.33
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	2176656	43.2531	43.253	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	529916			0.00- 74.69	24.35
11.444	11.444 (0.798)	57	219470			0.00- 61.62	10.08

Report Date: 05-Aug-2008 12:44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080429.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 50 ppbv (100 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	459876	-1.28
97 1,4-Difluorobenze	1452055	871233	2032877	1464149	0.83
126 Chlorobenzene-d5	1558716	935230	2182202	1546866	-0.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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: 05-Aug-2008 12:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-04aug
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ra
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 50 ppbv (100 ppbv)

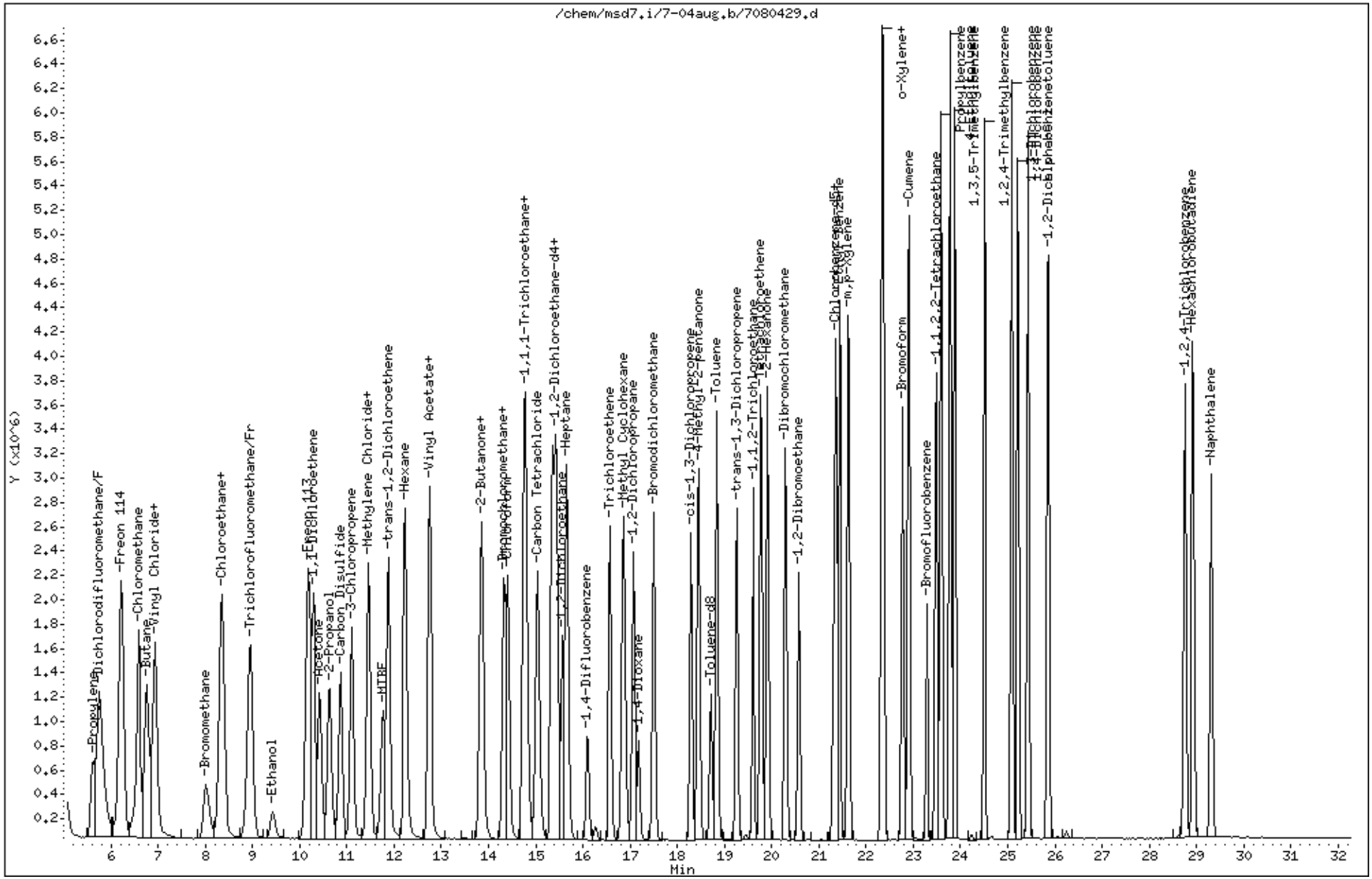
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	47.487	94.97	70-130
16 Freon 114	50.000	51.280	102.56	70-130
18 Chloromethane	50.000	47.223	94.45	70-130
20 Vinyl Chloride	50.000	47.769	95.54	70-130
22 1,3-Butadiene	50.000	45.057	90.11	60-140
25 Bromomethane	50.000	48.672	97.34	70-130
27 Chloroethane	50.000	49.551	99.10	70-130
31 Trichlorofluoromet	50.000	49.006	98.01	70-130
38 Ethanol	50.000	48.586	97.17	60-140
42 Freon 113	50.000	54.728	109.46	70-130
43 1,1-Dichloroethene	50.000	55.158	110.32	70-130
45 Acetone	50.000	51.219	102.44	60-140
47 Carbon Disulfide	50.000	49.871	99.74	60-140
46 2-Propanol	50.000	52.129	104.26	60-140
54 Methylene Chloride	50.000	52.076	104.15	70-130
60 MTBE	50.000	49.586	99.17	60-140
61 trans-1,2-Dichloro	50.000	50.541	101.08	60-140
65 Hexane	50.000	51.426	102.85	60-140
69 Vinyl Acetate	50.000	50.838	101.68	60-140
70 1,1-Dichloroethane	50.000	52.881	105.76	70-130
76 cis-1,2-Dichloroet	50.000	50.756	101.51	70-130
75 2-Butanone	50.000	50.757	101.51	60-140
80 Tetrahydrofuran	50.000	51.587	103.17	60-140
82 Chloroform	50.000	49.538	99.08	70-130
85 Cyclohexane	50.000	48.517	97.03	60-140
83 1,1,1-Trichloroeth	50.000	51.804	103.61	70-130
87 Carbon Tetrachlori	50.000	50.261	100.52	70-130
91 Benzene	50.000	48.501	97.00	70-130
93 1,2-Dichloroethane	50.000	50.530	101.06	70-130
94 Heptane	50.000	51.712	103.42	60-140
101 Trichloroethene	50.000	50.899	101.80	70-130
104 1,2-Dichloropropan	50.000	49.251	98.50	70-130
106 1,4-Dioxane	50.000	51.572	103.14	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 Bromodichlorometha	50.000	50.605	101.21	60-140
110 cis-1,3-Dichloropr	50.000	52.449	104.90	70-130
111 4-Methyl-2-pentano	50.000	55.287	110.57	60-140
114 Toluene	50.000	51.006	102.01	70-130
116 trans-1,3-Dichloro	50.000	50.536	101.07	70-130
117 1,1,2-Trichloroeth	50.000	49.146	98.29	70-130
120 Tetrachloroethene	50.000	49.759	99.52	70-130
121 2-Hexanone	50.000	53.212	106.42	60-140
122 Dibromochlorometha	50.000	51.352	102.70	60-140
123 1,2-Dibromoethane	50.000	48.418	96.84	70-130
127 Chlorobenzene	50.000	47.413	94.83	70-130
128 Ethyl Benzene	50.000	48.709	97.42	70-130
129 m,p-Xylene	50.000	46.923	93.85	70-130
130 o-Xylene	50.000	48.423	96.85	70-130
131 Styrene	50.000	51.412	102.82	70-130
133 Bromoform	50.000	50.437	100.87	60-140
140 1,1,2,2-Tetrachlor	50.000	46.414	92.83	70-130
145 4-Ethyltoluene	50.000	46.638	93.28	60-140
147 1,3,5-Trimethylben	50.000	42.591	85.18	70-130
150 1,2,4-Trimethylben	50.000	42.838	85.68	70-130
155 1,3-Dichlorobenzen	50.000	43.242	86.48	70-130
156 1,4-Dichlorobenzen	50.000	42.519	85.04	70-130
159 alpha-Chlorotoluen	50.000	47.062	94.12	70-130
161 1,2-Dichlorobenzen	50.000	42.362	84.72	70-130
165 1,2,4-Trichloroben	50.000	52.924	105.85	70-130
166 Hexachlorobutadien	50.000	49.518	99.04	70-130
142 Propylbenzene	50.000	47.615	95.23	60-140
134 Cumene	50.000	48.934	97.87	60-140
51 3-Chloropropene	50.000	50.699	101.40	60-140
89 2,2,4-Trimethylpen	50.000	51.000	102.00	60-140
29 Isopentane	50.000	47.777	95.55	70-130
19 Butane	50.000	46.257	92.51	70-130
102 Methyl Cyclohexane	50.000	51.725	103.45	70-130
11 Propylene	50.000	50.740	101.48	60-140
167 Naphthalene	50.000	53.768	107.54	60-140
57 tert-Butyl-Alcohol	50.000	43.253	86.51	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	24.566	98.26	70-130
$ 113 Toluene-d8	25.000	25.408	101.63	70-130
$ 137 Bromofluorobenzene	25.000	25.355	101.42	70-130

Data File: /chem/msd7.i/7-04aug.b/7080429.d
Date : 05-AUG-2008 12:27
Client ID: LCS-1
Sample Info: 100mL #1612-76A

Instrument: msd7.i
Operator: ra
Column phase: RTx-624
Column diameter: 0.53



0076

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080417.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 04-AUG-2008 16:14
Operator : ra Inst ID: msd7.i
Smp Info : .3mL #1612-91
Misc Info : 0.3ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:05 sscott Quant Type: ISTD
Cal Date : 04-AUG-2008 16:14 Cal File: 7080417.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	433089	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	330394			27.26- 127.26	76.29
14.347	14.347 (1.000)	49	1027958			253.14- 353.14	237.35
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1404890	25.0000		50.00- 150.00	100.00
16.117	16.117 (1.000)	88	246568			0.00- 67.42	17.55
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1348669	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	691177			1.03- 101.03	51.25
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	787789	25.0000	24.081	50.00- 150.00	100.00
15.425	15.425 (1.075)	67	341342			0.00- 97.37	43.33
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1269385	25.0000	23.604	50.00- 150.00	100.00
18.716	18.716 (1.161)	70	170795			0.00- 63.85	13.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	966689			26.51- 126.51	76.15
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	681042	25.0000	24.540	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	938508			89.41- 189.41	137.80
23.278	23.278 (1.092)	176	644445			45.98- 145.98	94.63
22 1,3-Butadiene					CAS #: 106-99-0		
6.909	6.909 (0.482)	54	15998	0.30000	0.3759	50.00- 150.00	100.00
6.937	6.937 (0.484)	39	12890			46.88- 146.88	80.57
82 Chloroform					CAS #: 67-66-3		
14.402	14.402 (1.004)	83	21367	0.30000	0.3549	50.00- 150.00	100.00(a)
14.430	14.430 (1.006)	85	13472			20.65- 120.65	63.05
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	27015	0.30000	0.3532	50.00- 150.00	100.00(a)
15.453	15.453 (0.959)	77	4985			0.00- 71.75	18.45
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	18275	0.30000	0.3474	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	14917			39.77- 139.77	81.63
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	18670	0.30000	0.2756	50.00- 150.00	100.00(a)
22.365	22.365 (1.049)	78	16051			10.48- 110.48	85.97
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	45270	0.30000	0.3479	50.00- 150.00	100.00(a)
22.918	22.918 (1.075)	120	12356			0.00- 77.95	27.29
22.891	22.891 (1.074)	51	8915			0.00- 67.08	19.69
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	47726	0.30000	0.3756	50.00- 150.00	100.00
23.858	23.858 (1.119)	120	27079			1.24- 101.24	56.74
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	46626	0.30000	0.3722	50.00- 150.00	100.00
24.494	24.494 (1.149)	120	19601			0.00- 97.02	42.04

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080417.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 0.3ppbv (200 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	433089	-7.03
97 1,4-Difluorobenze	1452055	871233	2032877	1404890	-3.25
126 Chlorobenzene-d5	1558716	935230	2182202	1348669	-13.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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.

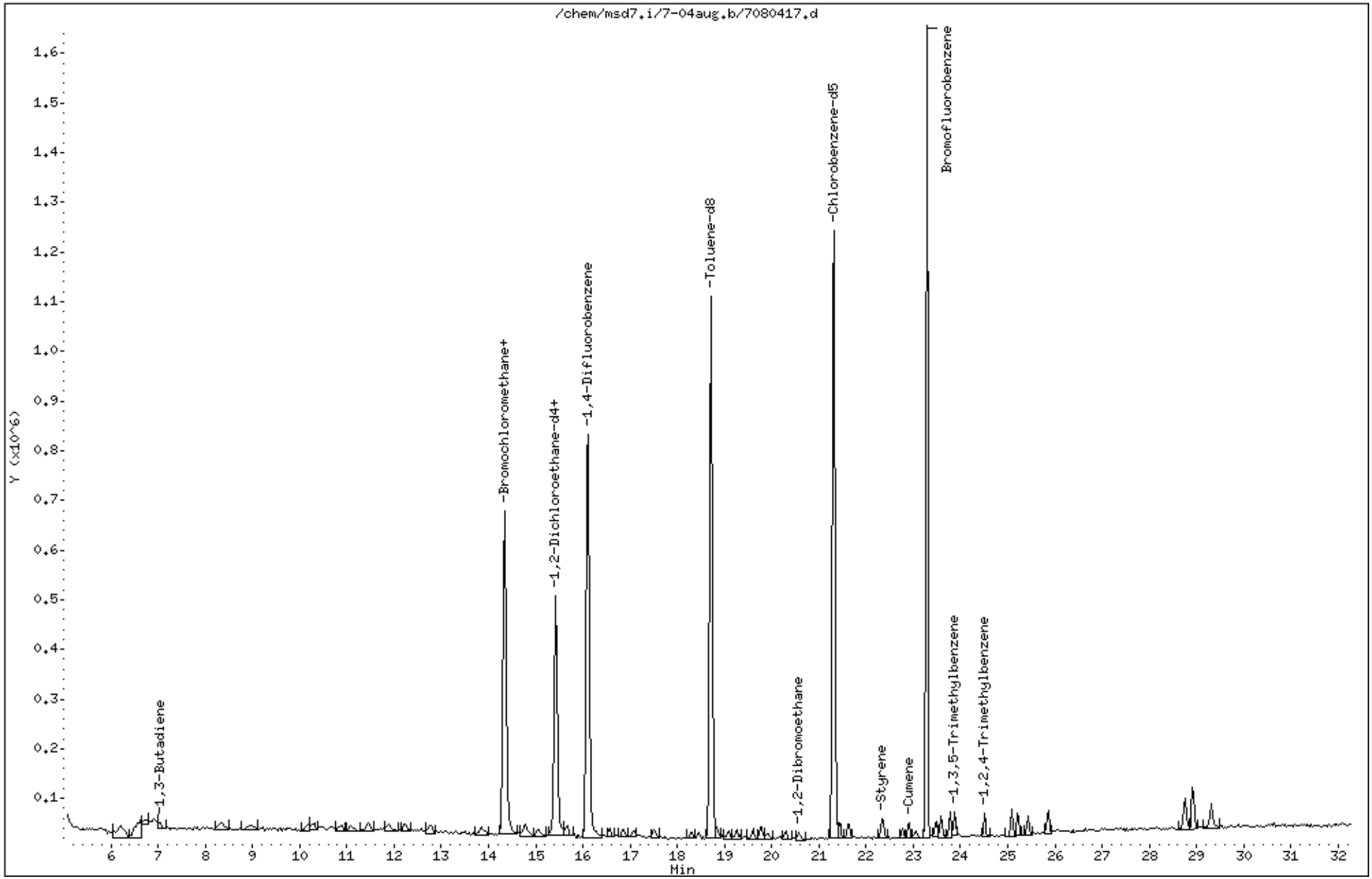
0080

Data File: /chem/msd7.i/7-04aug.b/7080417.d
Date : 04-AUG-2008 16:14
Client ID: Level 1
Sample Info: .3mL #1612-91

Column phase: RTx-624

Instrument: msd7.i

Operator: ra
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080428.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 05-AUG-2008 11:41
Operator : ra Inst ID: msd7.i
Smp Info : 0.5mL #1612-91
Misc Info : 0.5 ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:05 sscott Quant Type: ISTD
Cal Date : 05-AUG-2008 11:41 Cal File: 7080428.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	414194	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	327564			27.26- 127.26	79.08
14.347	14.347 (1.000)	49	1023783			253.14- 353.14	247.17
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1387738	25.0000		50.00- 150.00	100.00
16.117	16.117 (1.000)	88	234454			0.00- 67.42	16.89
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1370148	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	720513			1.03- 101.03	52.59
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	790705	25.0000	25.273	50.00- 150.00	100.00
15.425	15.425 (1.075)	67	347697			0.00- 97.37	43.97
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1273981	25.0000	23.982	50.00- 150.00	100.00
18.716	18.716 (1.161)	70	174994			0.00- 63.85	13.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	972555			26.51- 126.51	76.34
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	702634	25.0000	24.922	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	998376			89.41- 189.41	142.09
23.278	23.278 (1.092)	176	683775			45.98- 145.98	97.32
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.720	5.720 (0.399)	85	53383	0.50000	0.5214	50.00- 150.00	100.00
5.776	5.776 (0.403)	87	18449			0.00- 81.85	34.56
16 Freon 114					CAS #: 76-14-2		
6.191	6.191 (0.431)	135	22127	0.50000	0.4045	50.00- 150.00	100.00(a)
6.191	6.191 (0.431)	137	9392			0.00- 84.02	42.45
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	23532	0.50000	0.5445	50.00- 150.00	100.00
6.909	6.909 (0.482)	64	11491			0.00- 84.96	48.83
22 1,3-Butadiene					CAS #: 106-99-0		
6.909	6.909 (0.482)	54	20785	0.50000	0.5107	50.00- 150.00	100.00
6.882	6.882 (0.480)	39	17802			46.88- 146.88	85.65
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.557)	94	13710	0.50000	0.5137	50.00- 150.00	100.00
8.015	8.015 (0.559)	96	12634			41.33- 141.33	92.15
27 Chloroethane					CAS #: 75-00-3		
8.320	8.320 (0.580)	64	9749	0.50000	0.4851	50.00- 150.00	100.00(a)
8.320	8.320 (0.580)	49	4884			0.00- 94.43	50.10
8.320	8.320 (0.580)	66	2201			0.00- 79.28	22.58
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	46050	0.50000	0.4526	50.00- 150.00	100.00(a)
8.928	8.928 (0.622)	103	33799			15.68- 115.68	73.40
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	18011	0.50000	0.4408	50.00- 150.00	100.00(a)
10.172	10.172 (0.709)	153	14370			16.40- 116.40	79.78
10.144	10.144 (0.707)	101	29568			100.01- 200.01	164.17
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	30796	0.50000	0.4334	50.00- 150.00	100.00(a)
10.283	10.283 (0.717)	96	12283			0.00- 86.92	39.89
10.283	10.283 (0.717)	98	8855			0.00- 74.85	28.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	40182	0.50000	0.4605	50.00- 150.00	100.00(a)
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.444 (0.798)	49	33061	0.50000	0.5319	50.00- 150.00	100.00
11.444	11.444 (0.798)	84	11238			0.00- 86.35	33.99
11.444	11.444 (0.798)	51	9733			0.00- 80.54	29.44
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	25505	0.50000	0.4964	50.00- 150.00	100.00(a)
11.720	11.720 (0.817)	57	9406			0.00- 84.58	36.88
11.748	11.748 (0.819)	41	10150			0.00- 86.33	39.80
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	12628	0.50000	0.4240	50.00- 150.00	100.00(a)
11.886	11.886 (0.828)	61	32705			183.94- 283.94	258.99
11.886	11.886 (0.828)	98	8605			13.50- 113.50	68.14
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	30782	0.50000	0.4440	50.00- 150.00	100.00(a)
12.246	12.246 (0.854)	43	25329			20.34- 120.34	82.29
12.246	12.246 (0.854)	86	4514			0.00- 61.25	14.66
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	32044	0.50000	0.4267	50.00- 150.00	100.00(a)
12.771	12.771 (0.890)	65	13516			0.00- 81.43	42.18
75 2-Butanone					CAS #: 78-93-3		
13.849	13.849 (0.965)	72	7114	0.50000	0.5443	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	33456			602.07- 702.07	470.28
13.849	13.849 (0.965)	57	2664			0.00- 97.16	37.45
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.877 (0.967)	61	27877	0.50000	0.4948	50.00- 150.00	100.00(a)
13.877	13.877 (0.967)	96	13187			0.00- 97.05	47.30
13.877	13.877 (0.967)	98	9039			0.00- 80.30	32.42
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.319 (0.998)	42	21175	0.50000	0.4588	50.00- 150.00	100.00(a)
14.319	14.319 (0.998)	71	6490			0.00- 76.49	30.65
14.319	14.319 (0.998)	72	6752			0.00- 78.71	31.89
82 Chloroform					CAS #: 67-66-3		
14.430	14.430 (1.006)	83	24856	0.50000	0.4317	50.00- 150.00	100.00(a)
14.430	14.430 (1.006)	85	18761			20.65- 120.65	75.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	24543	0.50000	0.4175	50.00- 150.00	100.00(a)
14.762	14.762 (1.029)	99	17003			14.99- 114.99	69.28
85 Cyclohexane					CAS #: 110-82-7		
14.817	14.817 (1.033)	84	15529	0.50000	0.5028	50.00- 150.00	100.00
14.789	14.789 (1.031)	56	29107			145.33- 245.33	187.44
14.789	14.789 (1.031)	41	19747			73.65- 173.65	127.16
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	31620	0.50000	0.4710	50.00- 150.00	100.00(a)
15.038	15.038 (1.048)	117	32355			55.00- 155.00	102.32
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	31372	0.50000	0.4152	50.00- 150.00	100.00(a)
15.453	15.453 (0.959)	77	7650			0.00- 71.75	24.38
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	77322	0.50000	0.4680	50.00- 150.00	100.00(a)
15.370	15.370 (1.071)	56	24610			0.00- 82.54	31.83
15.370	15.370 (1.071)	41	25011			0.00- 80.37	32.35
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	24085	0.50000	0.4313	50.00- 150.00	100.00(a)
15.564	15.564 (0.966)	64	10134			0.00- 82.49	42.08
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	10504	0.50000	0.4299	50.00- 150.00	100.00(a)
15.647	15.647 (0.971)	43	32829			238.48- 338.48	312.54
15.674	15.674 (0.973)	57	18341			102.27- 202.27	174.61
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	15554	0.50000	0.4805	50.00- 150.00	100.00(a)
16.587	16.587 (1.029)	130	16470			54.15- 154.15	105.89
16.587	16.587 (1.029)	97	10534			16.17- 116.17	67.73
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.084	17.084 (1.060)	63	16589	0.50000	0.4597	50.00- 150.00	100.00(a)
17.084	17.084 (1.060)	62	11588			21.69- 121.69	69.85
17.057	17.057 (1.058)	41	12411			32.68- 132.68	74.81
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	25440	0.50000	0.4341	50.00- 150.00	100.00(a)
17.499	17.499 (1.086)	85	17952			20.11- 120.11	70.57
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	15777	0.50000	0.3795	50.00- 150.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
110 cis-1,3-Dichloropropene (continued)							
18.273	18.273 (1.134)	77	7608			0.00- 85.03	48.22
18.273	18.273 (1.134)	39	15167			43.00- 143.00	96.13
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	12953	0.50000	0.4022	50.00- 150.00	100.00(a)
18.467	18.467 (1.146)	43	38968			244.73- 344.73	300.84
18.467	18.467 (1.146)	85	4590			0.00- 81.51	35.44
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	40058	0.50000	0.4782	50.00- 150.00	100.00(a)
18.826	18.826 (1.168)	92	22424			10.54- 110.54	55.98
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	18521	0.50000	0.4176	50.00- 150.00	100.00(a)
19.269	19.269 (0.904)	77	5388			0.00- 80.88	29.09
19.269	19.269 (0.904)	39	16302			33.61- 133.61	88.02
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.600	19.600 (0.920)	97	12749	0.50000	0.4514	50.00- 150.00	100.00(a)
19.600	19.600 (0.920)	99	7027			12.31- 112.31	55.12
19.600	19.600 (0.920)	83	11599			34.26- 134.26	90.98
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	18044	0.50000	0.4874	50.00- 150.00	100.00(a)
19.794	19.794 (0.929)	129	16088			35.18- 135.18	89.16
19.766	19.766 (0.927)	131	15002			33.48- 133.48	83.14
122 Dibromochloromethane					CAS #: 124-48-1		
20.319	20.319 (0.953)	129	24318	0.50000	0.4112	50.00- 150.00	100.00(a)
20.319	20.319 (0.953)	127	21485			29.59- 129.59	88.35
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	23750	0.50000	0.4443	50.00- 150.00	100.00(a)
20.568	20.568 (0.965)	109	21810			39.77- 139.77	91.83
127 Chlorobenzene					CAS #: 108-90-7		
21.370	21.370 (1.003)	112	37976	0.50000	0.5423	50.00- 150.00	100.00
21.342	21.342 (1.001)	114	13530			0.00- 83.15	35.63
21.342	21.342 (1.001)	77	38336			21.80- 121.80	100.95
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.453 (1.006)	106	19825	0.50000	0.5191	50.00- 150.00	100.00
21.425	21.425 (1.005)	91	63267			261.34- 361.34	319.13
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	25764	0.50000	0.5273	50.00- 150.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
129 m,p-Xylene (continued)							
21.647	21.647 (1.016)	91	51369			147.02- 247.02	199.38
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	25369	0.50000	0.5612	50.00- 150.00	100.00
22.338	22.338 (1.048)	91	53028			158.66- 258.66	209.03
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	30490	0.50000	0.4430	50.00- 150.00	100.00(a)
22.365	22.365 (1.049)	78	20165			10.48- 110.48	66.14
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	25625	0.50000	0.5027	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	13207			2.34- 102.34	51.54
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	72232	0.50000	0.5464	50.00- 150.00	100.00
22.918	22.918 (1.075)	120	21341			0.00- 77.95	29.55
22.891	22.891 (1.074)	51	13892			0.00- 67.08	19.23
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	44801	0.50000	0.6396	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	34427			21.97- 121.97	76.84
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	112979	0.50000	0.6860	50.00- 150.00	100.00
23.610	23.610 (1.108)	120	26899			0.00- 73.91	23.81
23.582	23.582 (1.106)	105	6106			0.00- 54.14	5.40
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	111315	0.50000	0.7054	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	37320			0.00- 82.75	33.53
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	88179	0.50000	0.6830	50.00- 150.00	100.00
23.858	23.858 (1.119)	120	45457			1.24- 101.24	51.55
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	88922	0.50000	0.6986	50.00- 150.00	100.00
24.494	24.494 (1.149)	120	44706			0.00- 97.02	50.28
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	65075	0.50000	0.7839	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	40049			12.07- 112.07	61.54
25.075	25.075 (1.176)	111	31088			0.00- 94.74	47.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	70918	0.50000	0.8141	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	46453			13.30- 113.30	65.50
25.213	25.213 (1.183)	111	30181			0.00- 92.03	42.56
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.435	25.435 (1.193)	91	92796	0.50000	0.7274	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	17613			0.00- 69.83	18.98
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	70708	0.50000	0.8432	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	45587			12.84- 112.84	64.47
25.877	25.877 (1.214)	111	32665			0.00- 95.15	46.20
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	16478	0.50000	0.4347	50.00- 150.00	100.00(a)
16.863	16.863 (1.175)	98	9285			0.00- 97.34	56.35
16.863	16.863 (1.175)	55	25771			95.79- 195.79	156.40

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080428.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 0.5 ppbv (200 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

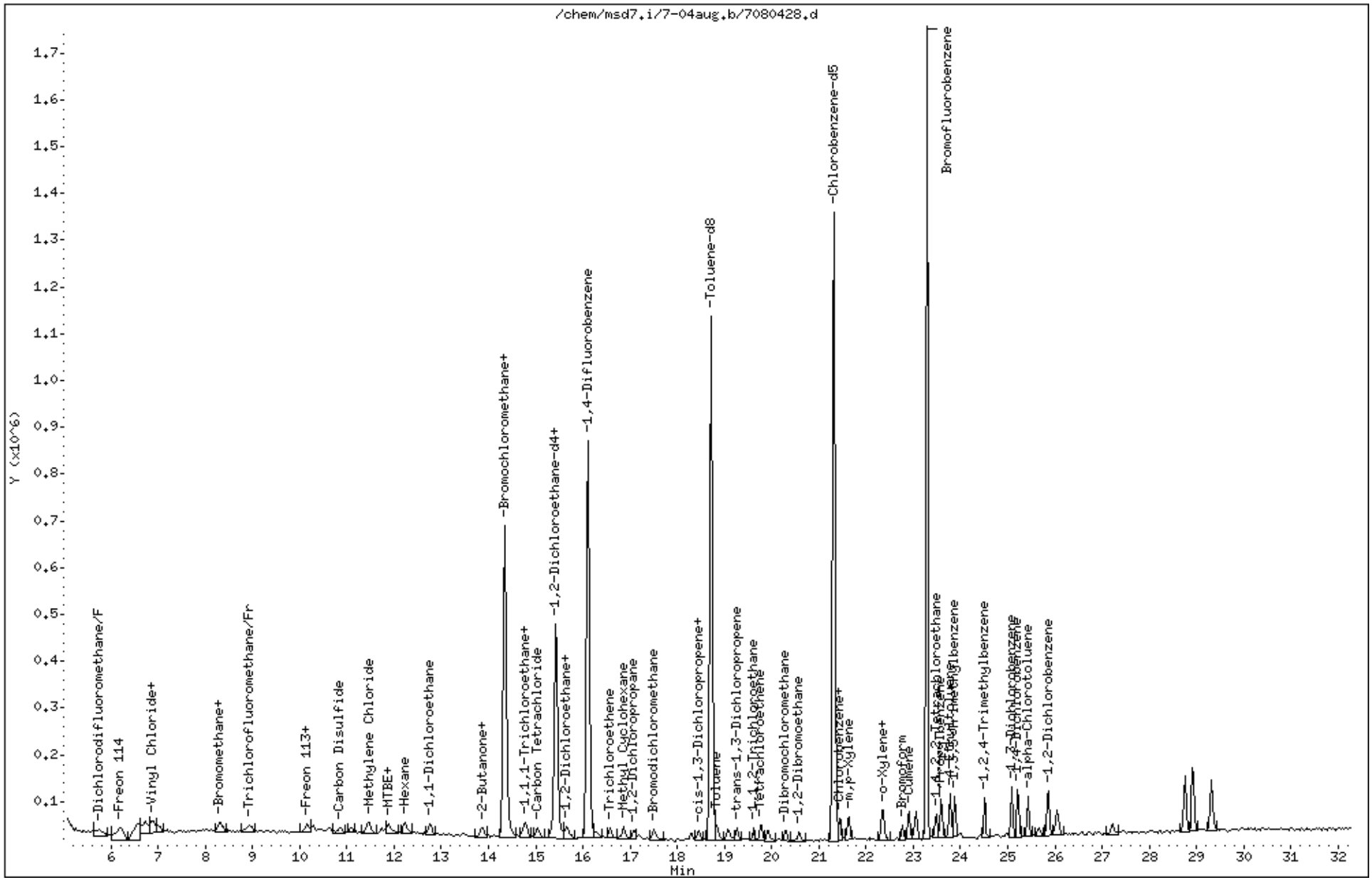
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	414194	-11.09
97 1,4-Difluorobenze	1452055	871233	2032877	1387738	-4.43
126 Chlorobenzene-d5	1558716	935230	2182202	1370148	-12.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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/msd7.i/7-04aug.b/7080428.d
Date : 05-AUG-2008 11:41
Client ID: Level 2
Sample Info: 0.5mL #1612-91

Instrument: msd7.i
Operator: ra
Column phase: RTx-624
Column diameter: 0.53



0089

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-27aug.b/7082703.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 27-AUG-2008 09:46
Operator : ra Inst ID: msd7.i
Smp Info : 2.0mL #1541-251
Misc Info : 2.0ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-27aug.b/t14q804c.m
Meth Date : 27-Aug-2008 15:46 ctaylor Quant Type: ISTD
Cal Date : 27-AUG-2008 09:46 Cal File: 7082703.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp2c.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.320	14.320 (1.000)	130	289326	25.0000		50.00- 150.00		100.00
14.320	14.320 (1.000)	128	223256			26.80- 126.80		77.16
14.320	14.320 (1.000)	49	651945			216.97- 316.97		225.33
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
16.089	16.089 (1.000)	114	942559	25.0000		50.00- 150.00		100.00
16.089	16.089 (1.000)	88	161553			0.00- 67.09		17.14
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
21.315	21.315 (1.000)	117	933321	25.0000		50.00- 150.00		100.00
21.287	21.287 (1.000)	82	472994			1.24- 101.24		50.68
204 Propylene Oxide					CAS #: 75-56-9			
9.840	9.840 (0.687)	58	3955	2.00000	2.347	50.00- 150.00		100.00
9.840	9.840 (0.687)	43	6367			77.34- 177.34		160.99
10.283	10.283 (0.718)	57	2442			0.00- 80.14		61.74
152 D-Limonene					CAS #: 5989-27-5			
24.882	24.882 (1.167)	68	64138	2.00000	1.753	50.00- 150.00		100.00(a)

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)		
RT	EXP RT (REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
152 D-Limonene (continued)							
24.882	24.882 (1.167)	93	50183			23.79- 123.79	78.24

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7082703.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-27aug.b/t14q804c.m
Misc Info: 2.0ppbv (200ppbv)

Calibration Date: 27-AUG-2008
Calibration Time: 08:32
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	312734	187640	437828	289326	-7.48
97 1,4-Difluorobenze	994459	596675	1392243	942559	-5.22
126 Chlorobenzene-d5	1074720	644832	1504608	933321	-13.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.32	-0.19
97 1,4-Difluorobenze	16.09	15.76	16.42	16.09	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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.

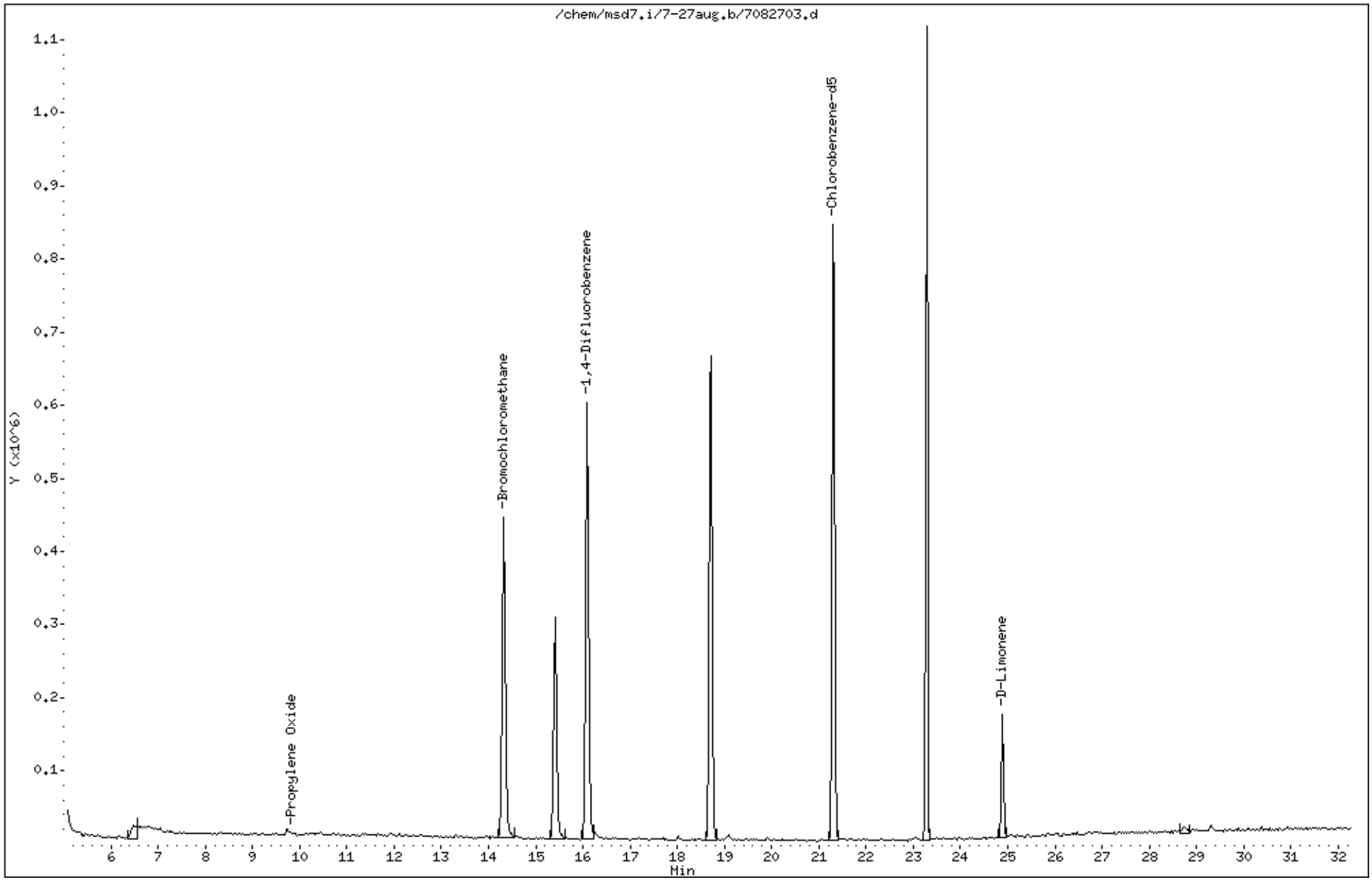
0093

Data File: /chem/msd7.i/7-27aug.b/7082703.d
Date : 27-AUG-2008 09:46
Client ID: Level 3
Sample Info: 2.0mL #1541-251

Column phase: RTx-624

Instrument: msd7.i

Operator: ra
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-24aug.b/7082404.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 24-AUG-2008 11:28
Operator : smd Inst ID: msd7.i
Smp Info : 2.0mL #1541-242
Misc Info : 2.0ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24aug.b/t14q804b.m
Meth Date : 25-Aug-2008 07:18 sdisher Quant Type: ISTD
Cal Date : 24-AUG-2008 11:28 Cal File: 7082404.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.320 (1.000)	130	364935	25.0000		80.00- 120.00	100.00
14.347	14.320 (1.000)	128	285384			29.17- 129.17	78.20
14.319	14.320 (1.000)	49	890979			294.76- 394.76	244.15
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1159438	25.0000		80.00- 120.00	100.00
16.089	16.089 (1.000)	88	202862			0.00- 66.97	17.50
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1170907	25.0000		80.00- 120.00	100.00
21.287	21.315 (1.000)	82	592822			1.08- 101.08	50.63
21 Isobutane					CAS #: 75-28-5		
6.301	6.246 (0.439)	43	139194	2.00000	2.000	80.00- 120.00	100.00
6.301	6.246 (0.439)	42	49883			0.00- 84.88	35.84
6.329	6.246 (0.441)	58	4079			0.00- 52.64	2.93
35 1-Pentene					CAS #: 109-67-1		
8.900	8.928 (0.620)	55	97278	2.00000	2.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 1-Pentene (continued)							
8.928	8.928 (0.622)	42	119212			73.58- 173.58	122.55
0.000	8.928 (0.000)	0	0			0.00- 50.00	0.00
37 Pentane					CAS #: 109-66-0		
9.038	9.038 (0.630)	43	172942	2.00000	2.000	80.00- 120.00	100.00
9.066	9.038 (0.632)	57	27171			0.00- 64.92	15.71
9.038	9.038 (0.630)	72	11140			0.00- 56.13	6.44
39 Ethyl Ether					CAS #: 60-29-7		
9.619	9.619 (0.670)	74	26686	2.00000	2.000	80.00- 120.00	100.00
9.619	9.619 (0.670)	59	53374			158.16- 258.16	200.01
0.000	9.619 (0.000)	31	0			0.00- 50.00	0.00
44 Acrolein					CAS #: 107-02-8		
10.117	10.117 (0.705)	55	27360	2.00000	2.000	80.00- 120.00	100.00
10.117	10.117 (0.705)	56	34629			80.85- 180.85	126.57
48 Ethyl acrylate					CAS #: 140-88-5		
16.642	16.642 (0.781)	99	6617	2.00000	2.000	80.00- 120.00	100.00
16.642	16.642 (0.781)	45	17792			192.66- 292.66	268.88
16.642	16.642 (0.781)	55	140817			2365.59-2465.59	2128.11
49 Iodomethane					CAS #: 74-88-4		
10.753	10.725 (0.749)	142	128103	2.00000	2.000	80.00- 120.00	100.00
10.753	10.725 (0.749)	127	60331			0.00- 97.52	47.10
50 Methyl Methacrylate					CAS #: 80-62-6		
17.057	17.057 (0.800)	41	98598	2.00000	2.000	80.00- 120.00	100.00
17.057	17.057 (0.800)	69	43540			0.00- 93.65	44.16
17.057	17.057 (0.800)	100	16740			0.00- 67.48	16.98
52 Acetonitrile					CAS #: 75-05-8		
11.195	11.195 (0.780)	40	45373	2.00000	2.000	80.00- 120.00	100.00
11.167	11.195 (0.778)	41	78235			130.28- 230.28	172.43
11.195	11.195 (0.780)	38	11269			0.00- 74.99	24.84
56 Cyclopentane					CAS #: 287-92-3		
11.416	11.416 (0.796)	70	33783	2.00000	2.000	80.00- 120.00	100.00
11.416	11.416 (0.796)	55	73798			168.23- 268.23	218.45
0.000	11.416 (0.000)	0	0			0.00- 50.00	0.00
62 Acrylonitrile					CAS #: 107-13-1		
11.969	11.969 (0.834)	52	64147	2.00000	2.000	80.00- 120.00	100.00
11.969	11.969 (0.834)	53	75338			69.80- 169.80	117.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
63 2-Pentanone					CAS #: 107-87-9		
16.863	16.836 (0.791)	43	180068	2.00000	2.000	80.00- 120.00	100.00
16.863	16.836 (0.791)	58	13483			0.00- 57.02	7.49
16.863	16.836 (0.791)	86	20460			0.00- 60.89	11.36
66 1-Hexene					CAS #: 592-41-6		
12.107	12.108 (0.844)	55	59753	2.00000	2.000	80.00- 120.00	100.00
12.107	12.108 (0.844)	41	102239			115.90- 215.90	171.10
12.107	12.108 (0.844)	84	14249			0.00- 73.54	23.85
79 Methyl Acrylate					CAS #: 96-33-3		
13.932	13.932 (0.971)	55	133459	2.00000	2.000	80.00- 120.00	100.00
13.932	13.932 (0.971)	85	14697			0.00- 60.78	11.01
13.932	13.932 (0.971)	58	12178			0.00- 58.73	9.12
100 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
23.582	23.582 (1.106)	75	19955	2.00000	2.000	80.00- 120.00	100.00
23.582	23.582 (1.106)	89	10504			4.51- 104.51	52.64
23.582	23.582 (1.106)	53	28314			86.78- 186.78	141.89
103 Alphamethylstyrene					CAS #: 98-83-9		
24.246	24.246 (1.137)	118	116692	2.00000	2.000	80.00- 120.00	100.00
24.246	24.246 (1.137)	103	64651			4.10- 104.10	55.40
105 Dibromomethane					CAS #: 74-95-3		
17.306	17.306 (0.812)	174	48807	2.00000	2.000	80.00- 120.00	100.00
17.306	17.306 (0.812)	93	58929			70.54- 170.54	120.74
17.306	17.306 (0.812)	95	47289			47.14- 147.14	96.89
124 Nonane					CAS #: 111-84-2		
21.425	21.425 (1.005)	43	203712	2.00000	2.000	80.00- 120.00	100.00
21.425	21.425 (1.005)	57	170251			33.50- 133.50	83.57
21.425	21.425 (1.005)	85	43153			0.00- 71.27	21.18
151 bis(2-chloroethyl)ether					CAS #: 111-44-4		
24.854	24.854 (1.166)	93	140689	2.00000	2.000	80.00- 120.00	100.00
24.854	24.854 (1.166)	95	45310			0.00- 82.01	32.21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7082404.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd7.i/7-24aug.b/t14q804b.m
Misc Info: 2.0ppbv (200ppbv)

Calibration Date: 24-AUG-2008
Calibration Time: 10:19
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	379391	227635	531147	364935	-3.81
97 1,4-Difluorobenze	1237836	742702	1732970	1159438	-6.33
126 Chlorobenzene-d5	1280879	768527	1793231	1170907	-8.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.32	13.99	14.65	14.35	0.19
97 1,4-Difluorobenze	16.09	15.76	16.42	16.09	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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.

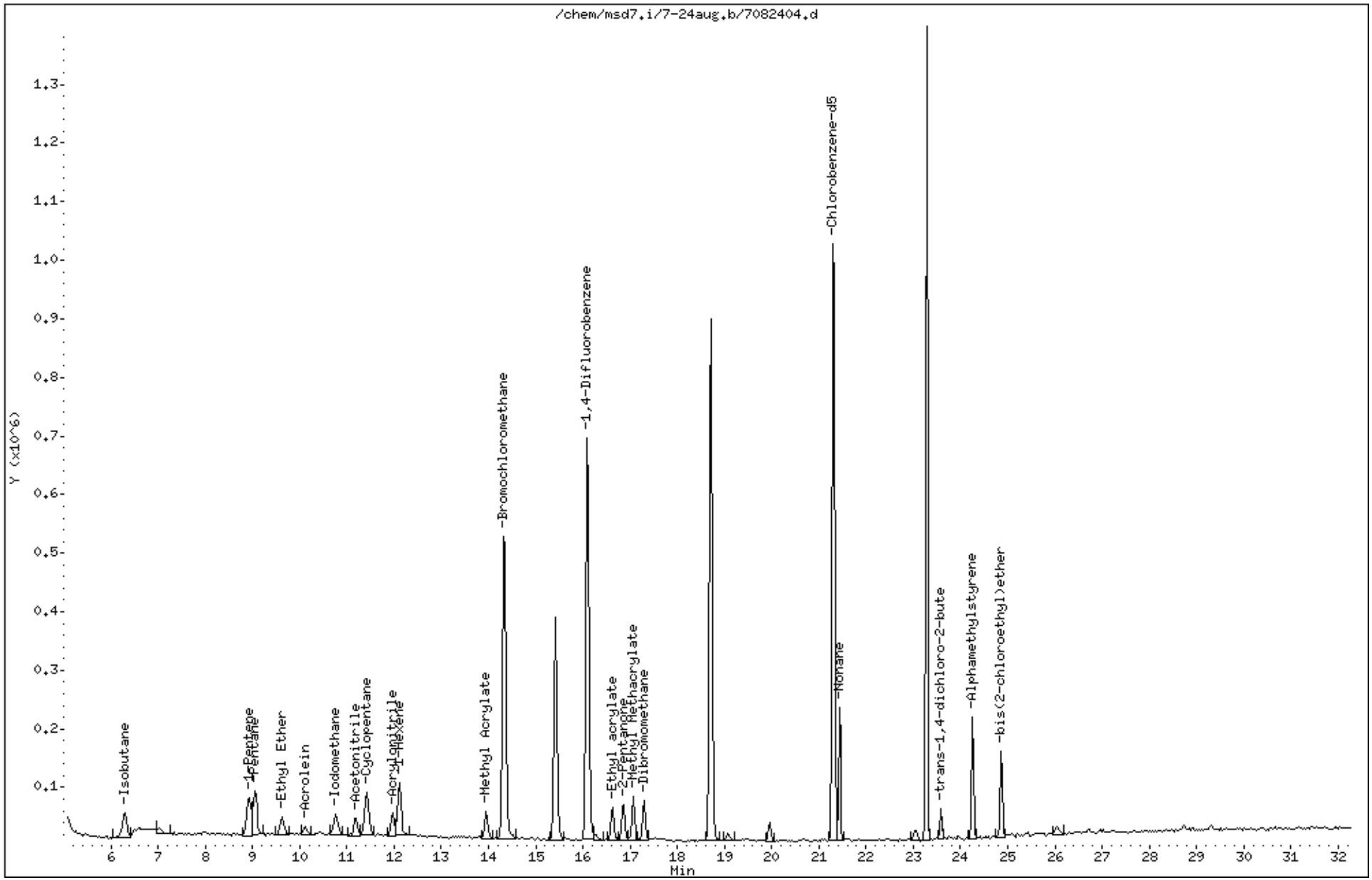
8600

Data File: /chem/msd7.i/7-24aug.b/7082404.d
Date : 24-AUG-2008 11:28
Client ID: Level 3
Sample Info: 2.0mL #1541-242

Instrument: msd7.i

Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-05aug.b/7080503.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 05-AUG-2008 14:27
Operator : ra Inst ID: msd7.i
Smp Info : 2mL #1612-99
Misc Info : 2/12 ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-05aug.b/t14q804a.m
Meth Date : 05-Aug-2008 17:38 sruth Quant Type: ISTD
Cal Date : 05-AUG-2008 14:27 Cal File: 7080503.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp37a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.333	14.333 (1.000)	130	410277	25.0000		50.00- 150.00	100.00
14.333	14.333 (1.000)	128	314795			26.90- 126.90	76.73
14.333	14.333 (1.000)	49	997133			252.05- 352.05	243.04
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.102	16.102 (1.000)	114	1340229	25.0000		50.00- 150.00	100.00
16.102	16.102 (1.000)	88	235724			0.00- 67.42	17.59
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.301	21.301 (1.000)	117	1286337	25.0000		50.00- 150.00	100.00
21.301	21.301 (1.000)	82	658070			1.24- 101.24	51.16
96 2-Heptanone					CAS #: 110-43-0		
22.462	22.462 (1.567)	58	74402	2.00000	2.000	50.00- 150.00	100.00
22.462	22.462 (1.567)	43	143085			142.31- 242.31	192.31
146 Diisobutyl Ketone					CAS #: 108-83-8		
24.038	24.038 (1.129)	57	178023	2.00000	2.000	50.00- 150.00	100.00
24.038	24.038 (1.129)	85	105978			9.53- 109.53	59.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
146 Diisobutyl Ketone (continued)							
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
99 Isobutanol					CAS #: 78-83-1		
15.107	15.107 (1.054)	59	2785	2.00000	2.000	50.00- 150.00	100.00
15.079	15.079 (1.052)	41	32758			1126.23-1226.23	1176.23
15.079	15.079 (1.052)	43	39694			1375.28-1475.28	1425.28
98 1-Butanol					CAS #: 71-36-3		
16.268	16.268 (1.010)	56	43657	2.00000	2.000	50.00- 150.00	100.00
16.268	16.268 (1.010)	41	32295			23.97- 123.97	73.97
16.268	16.268 (1.010)	43	24851			6.92- 106.92	56.92
71 1-Propanol					CAS #: 71-23-8		
12.785	12.785 (0.892)	42	16491	2.00000	2.000	50.00- 150.00	100.00
12.646	12.646 (0.882)	59	40623			196.33- 296.33	246.33
12.646	12.646 (0.882)	41	57618			299.39- 399.39	349.39
73 t-Butylethyl Ether					CAS #: 637-92-3		
13.310	13.310 (0.929)	59	176972	2.00000	2.000	50.00- 150.00	100.00
13.310	13.310 (0.929)	87	47956			0.00- 77.10	27.10
13.310	13.310 (0.929)	41	35957			0.00- 70.32	20.32
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
15.494	15.494 (1.081)	73	104441	2.00000	2.000	50.00- 150.00	100.00
15.522	15.522 (1.083)	87	26937			0.00- 75.79	25.79
15.467	15.467 (1.079)	55	46996			0.00- 95.00	45.00
68 Isopropyl ether					CAS #: 108-20-3		
12.646	12.646 (0.882)	45	283126	2.00000	2.000	50.00- 150.00	100.00
12.646	12.646 (0.882)	87	40840			0.00- 64.42	14.42
12.646	12.646 (0.882)	59	40623			0.00- 64.35	14.35
119 Butyl Acetate					CAS #: 123-86-4		
20.001	20.001 (1.242)	56	59410	2.00000	2.000	50.00- 150.00	100.00
20.029	20.029 (1.244)	73	15689			0.00- 76.41	26.41
20.029	20.029 (1.244)	43	152542			206.76- 306.76	256.76
77 Ethyl Acetate					CAS #: 141-78-6		
13.808	13.808 (0.963)	70	9977	2.00000	2.000	50.00- 150.00	100.00
13.808	13.808 (0.963)	45	20563			156.10- 256.10	206.10
13.808	13.808 (0.963)	61	34076			291.55- 391.55	341.55
135 Cyclohexanone					CAS #: 108-94-1		
23.236	23.236 (1.091)	55	77652	2.00000	2.000	50.00- 150.00	100.00
23.236	23.236 (1.091)	98	19876			0.00- 75.60	25.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
135 Cyclohexanone (continued)							
23.236	23.236 (1.091)	42	52546			17.67- 117.67	67.67
5 Freon 143a					CAS #: 420-46-2		
5.335	5.335 (0.372)	65	28889	2.00000	2.000	50.00- 150.00	100.00
5.420	5.420 (0.378)	69	146450			0.00- 50.00	506.94
5.363	5.363 (0.374)	64	5852			0.00- 70.26	20.26
6 Freon142b					CAS #: 75-68-3		
6.321	6.321 (0.441)	65	138229	2.00000	2.000	50.00- 150.00	100.00
6.321	6.321 (0.441)	45	47996			0.00- 84.72	34.72
9 Freon 13					CAS #: 75-72-9		
5.279	5.279 (0.368)	85	15965	2.00000	2.000	50.00- 150.00	100.00
5.222	5.222 (0.364)	87	9046			6.66- 106.66	56.66
5.420	5.420 (0.378)	69	146450			867.32- 967.32	917.32
13 Freon 134a					CAS #: 811-97-2		
5.476	5.476 (0.382)	83	50101	2.00000	2.000	50.00- 150.00	100.00
5.420	5.420 (0.378)	69	146450			242.31- 342.31	292.31
5.476	5.476 (0.382)	63	10861			0.00- 71.68	21.68
15 Freon 152a					CAS #: 75-37-6		
5.645	5.645 (0.394)	65	39929	2.00000	2.000	50.00- 150.00	100.00
5.786	5.786 (0.404)	51	256695			592.88- 692.88	642.88
5.673	5.673 (0.396)	47	31281			28.34- 128.34	78.34
17 Freon 22					CAS #: 75-45-6		
5.786	5.786 (0.404)	51	273411	2.00000	2.000	50.00- 150.00	100.00
5.814	5.814 (0.406)	67	20638			0.00- 57.55	7.55
5.814	5.814 (0.406)	85	1559			0.00- 50.57	0.57
26 Methanol					CAS #: 67-56-1		
7.532	7.532 (0.525)	31	201166	12.0000	12.000	50.00- 150.00	100.00(a)
7.532	7.532 (0.525)	32	680804			288.43- 388.43	338.43
41 Freon123					CAS #: 306-83-2		
9.909	9.909 (0.691)	83	90649	2.00000	2.000	50.00- 150.00	100.00
9.937	9.937 (0.693)	133	23368			0.00- 75.78	25.78
9.909	9.909 (0.691)	85	64895			21.59- 121.59	71.59
40 Freon123a					CAS #: 354-23-4		
9.771	9.771 (0.682)	117	53505	2.00000	2.000	50.00- 150.00	100.00
9.743	9.743 (0.680)	67	82729			104.62- 204.62	154.62
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.912	8.912 (0.622)	67	127365	2.00000	2.000	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
34 Dichlorofluoromethane/Fr21 (continued)							
8.940	8.940 (0.624)	69	36239			0.00- 78.45	28.45
8.912	8.912 (0.622)	35	12649			0.00- 59.93	9.93
136 Bromobenzene					CAS #: 108-86-1		
23.568	23.568 (1.106)	156	74441	2.00000	2.000	50.00- 150.00	100.00
23.568	23.568 (1.106)	158	74060			49.49- 149.49	99.49
23.568	23.568 (1.106)	77	161765			167.31- 267.31	217.31
158 Butylbenzene					CAS #: 104-51-8		
25.642	25.642 (1.204)	134	64881	2.00000	2.000	50.00- 150.00	100.00
25.642	25.642 (1.204)	91	251841			338.16- 438.16	388.16
25.642	25.642 (1.204)	92	138624			163.66- 263.66	213.66
149 sec-Butylbenzene					CAS #: 135-98-8		
24.757	24.757 (1.162)	105	283972	2.00000	2.000	50.00- 150.00	100.00
24.757	24.757 (1.162)	134	54242			0.00- 69.10	19.10
24.757	24.757 (1.162)	91	46053			0.00- 66.22	16.22
148 tert-Butylbenzene					CAS #: 98-06-6		
24.397	24.397 (1.145)	119	190765	2.00000	2.000	50.00- 150.00	100.00
24.397	24.397 (1.145)	134	43577			0.00- 72.84	22.84
24.397	24.397 (1.145)	91	133023			19.73- 119.73	69.73
141 2-Chlorotoluene					CAS #: 95-49-8		
23.844	23.844 (1.119)	126	60082	2.00000	2.000	50.00- 150.00	100.00
23.844	23.844 (1.119)	91	180311			250.11- 350.11	300.11
23.844	23.844 (1.119)	65	23005			0.00- 88.29	38.29
143 4-Chlorotoluene					CAS #: 106-43-4		
24.010	24.010 (1.127)	126	61947	2.00000	2.000	50.00- 150.00	100.00
24.010	24.010 (1.127)	91	190904			258.17- 358.17	308.17
24.010	24.010 (1.127)	63	34547			5.77- 105.77	55.77
162 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
27.218	27.218 (1.278)	157	79585	2.00000	2.000	50.00- 150.00	100.00
27.218	27.218 (1.278)	75	102380			78.64- 178.64	128.64
27.245	27.245 (1.279)	155	66504			33.56- 133.56	83.56
118 1,3-Dichloropropane					CAS #: 142-28-9		
19.918	19.918 (1.237)	76	70461	2.00000	2.000	50.00- 150.00	100.00
19.918	19.918 (1.237)	41	82077			66.49- 166.49	116.49
19.946	19.946 (1.239)	78	23451			0.00- 83.28	33.28
78 2,2-Dichloropropane					CAS #: 594-20-7		
13.835	13.835 (0.965)	77	72200	2.00000	2.000	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
78 2,2-Dichloropropane (continued)							
13.808	13.808 (0.963)	79	23009			0.00- 81.87	31.87
13.835	13.835 (0.965)	97	11676			0.00- 66.17	16.17
153 p-Cymene					CAS #: 99-87-6		
24.978	24.978 (1.173)	119	264807	2.00000	2.000	50.00- 150.00	100.00
24.978	24.978 (1.173)	134	64412			0.00- 74.32	24.32
24.978	24.978 (1.173)	91	65328			0.00- 74.67	24.67
125 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
21.466	21.466 (1.008)	131	72314	2.00000	2.000	50.00- 150.00	100.00
21.466	21.466 (1.008)	117	53320			23.73- 123.73	73.73
21.466	21.466 (1.008)	95	29397			0.00- 90.65	40.65
138 1,2,3-Trichloropropane					CAS #: 96-18-4		
23.623	23.623 (1.109)	110	42582	2.00000	2.000	50.00- 150.00	100.00
23.623	23.623 (1.109)	75	116613			223.86- 323.86	273.86
23.623	23.623 (1.109)	61	40932			46.13- 146.13	96.13
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
25.227	25.227 (1.184)	120	90107	2.00000	2.000	50.00- 150.00	100.00
25.227	25.227 (1.184)	105	214194			187.71- 287.71	237.71
25.227	25.227 (1.184)	77	29087			0.00- 82.28	32.28
201 Pentachloroethane					CAS #: 76-01-7		
24.563	24.563 (1.153)	167	54153	2.00000	2.000	50.00- 150.00	100.00
24.536	24.536 (1.152)	117	70442			80.08- 180.08	130.08
24.563	24.563 (1.153)	169	27597			0.96- 100.96	50.96
88 1,1-Dichloropropene					CAS #: 563-58-6		
15.052	15.052 (0.935)	110	23206	2.00000	2.000	50.00- 150.00	100.00
15.052	15.052 (0.935)	75	65386			231.76- 331.76	281.76
55 Cyclopentene					CAS #: 142-29-0		
11.209	11.209 (0.782)	67	109638	2.00000	2.000	50.00- 150.00	100.00
11.209	11.209 (0.782)	68	42715			0.00- 88.96	38.96
11.209	11.209 (0.782)	53	34942			0.00- 81.87	31.87

QC Flag Legend

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

Report Date: 05-Aug-2008 17:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080503.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-05aug.b/t14q804a.m
Misc Info: 2/12 ppbv (200 ppbv)

Calibration Date: 05-AUG-2008
Calibration Time: 15:45
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	433524	260114	606934	410277	-5.36
97 1,4-Difluorobenze	1378748	827249	1930247	1340229	-2.79
126 Chlorobenzene-d5	1402863	841718	1964008	1286337	-8.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.33	14.00	14.66	14.33	0.00
97 1,4-Difluorobenze	16.10	15.77	16.43	16.10	0.00
126 Chlorobenzene-d5	21.30	20.97	21.63	21.30	0.00

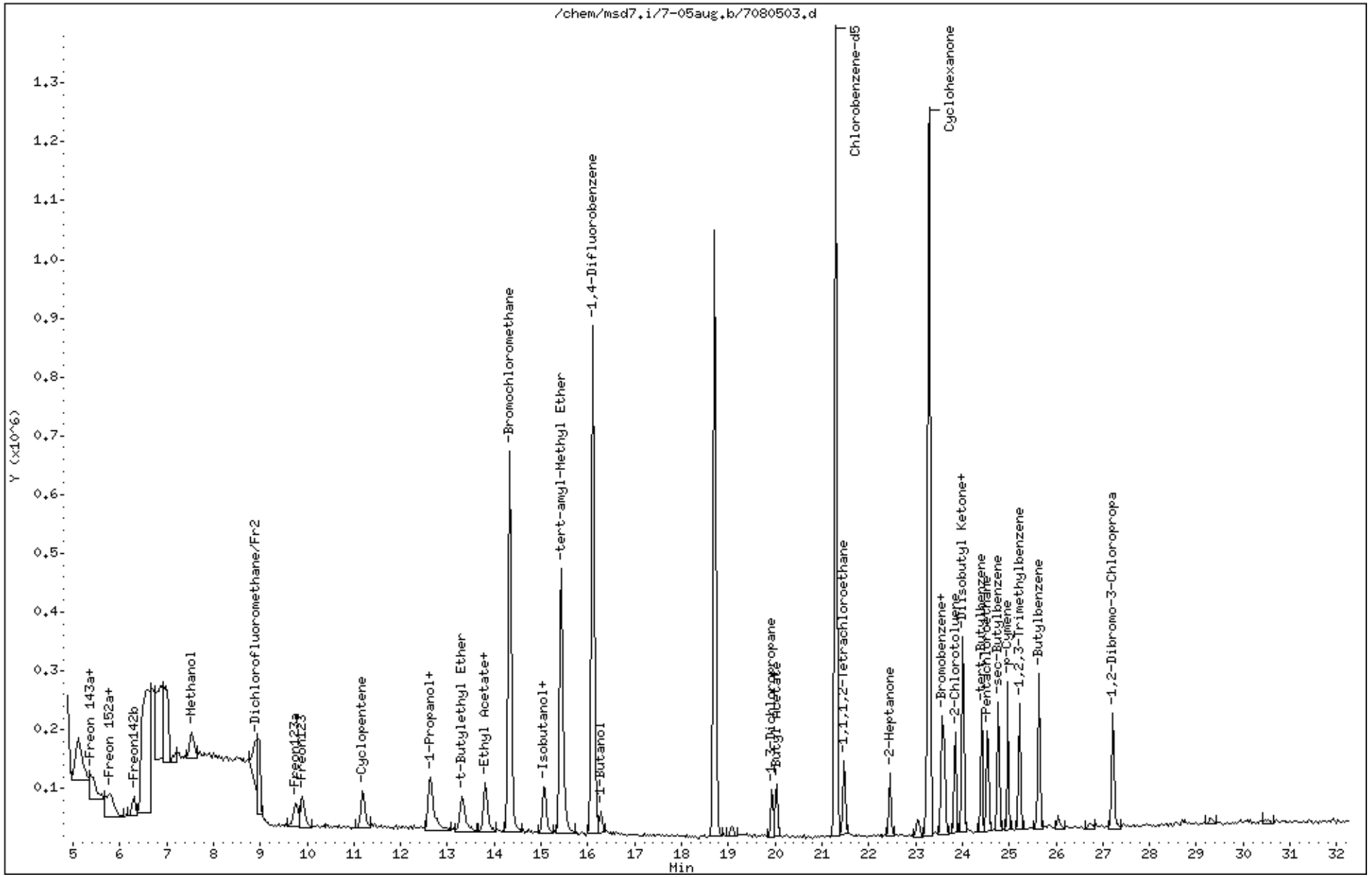
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0105

Data File: /chem/msd7.i/7-05aug.b/7080503.d
Date : 05-AUG-2008 14:27
Client ID: Level 3
Sample Info: 2mL #1612-99

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080419.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 04-AUG-2008 18:01
Operator : dfm Inst ID: msd7.i
Smp Info : 2.0mL #1612-91
Misc Info : 2.0ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:06 sscott Quant Type: ISTD
Cal Date : 04-AUG-2008 18:01 Cal File: 7080419.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	435701	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	343827			27.26- 127.26	78.91
14.347	14.347 (1.000)	49	1087247			253.14- 353.14	249.54
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1406833	25.0000		50.00- 150.00	100.00
16.117	16.117 (1.000)	88	247527			0.00- 67.42	17.59
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1448488	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	722905			1.03- 101.03	49.91
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	852819	25.0000	25.912	50.00- 150.00	100.00
15.425	15.425 (1.075)	67	365071			0.00- 97.37	42.81
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1298444	25.0000	24.110	50.00- 150.00	100.00
18.716	18.716 (1.161)	70	179284			0.00- 63.85	13.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	994638			26.51- 126.51	76.60
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	733873	25.0000	24.622	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1018938			89.41- 189.41	138.84
23.278	23.278 (1.092)	176	688441			45.98- 145.98	93.81
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	76426	2.00000	2.057	50.00- 150.00	100.00
5.638	5.638 (0.393)	42	47928			16.57- 116.57	62.71
5.610	5.610 (0.391)	39	56467			28.60- 128.60	73.88
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.776	5.776 (0.403)	85	205046	2.00000	1.904	50.00- 150.00	100.00
5.748	5.748 (0.401)	87	63577			0.00- 81.85	31.01
16 Freon 114					CAS #: 76-14-2		
6.218	6.218 (0.433)	135	111831	2.00000	1.944	50.00- 150.00	100.00
6.218	6.218 (0.433)	137	38208			0.00- 84.02	34.17
18 Chloromethane					CAS #: 74-87-3		
6.550	6.550 (0.457)	50	93882	2.00000	2.049	50.00- 150.00	100.00
6.578	6.578 (0.458)	52	28485			0.00- 81.05	30.34
20 Vinyl Chloride					CAS #: 75-01-4		
6.882	6.882 (0.480)	62	85018	2.00000	1.870	50.00- 150.00	100.00
6.854	6.854 (0.478)	64	32559			0.00- 84.96	38.30
22 1,3-Butadiene					CAS #: 106-99-0		
6.909	6.909 (0.482)	54	74307	2.00000	1.736	50.00- 150.00	100.00
6.909	6.909 (0.482)	39	79142			46.88- 146.88	106.51
25 Bromomethane					CAS #: 74-83-9		
8.015	8.015 (0.559)	94	51808	2.00000	1.845	50.00- 150.00	100.00
8.015	8.015 (0.559)	96	46362			41.33- 141.33	89.49
27 Chloroethane					CAS #: 75-00-3		
8.347	8.347 (0.582)	64	35170	2.00000	1.664	50.00- 150.00	100.00
8.292	8.292 (0.578)	49	19006			0.00- 94.43	54.04
8.320	8.320 (0.580)	66	14386			0.00- 79.28	40.90
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	209195	2.00000	1.955	50.00- 150.00	100.00
8.928	8.928 (0.622)	103	132958			15.68- 115.68	63.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.426	9.426 (0.657)	45	28404	2.00000	1.601	50.00- 150.00	100.00(a)
9.398	9.398 (0.655)	43	8666			0.00- 73.90	30.51
9.426	9.426 (0.657)	46	10763			0.00- 88.16	37.89
42 Freon 113					CAS #: 76-13-1		
10.144	10.144 (0.707)	151	81184	2.00000	1.889	50.00- 150.00	100.00
10.172	10.172 (0.709)	153	52324			16.40- 116.40	64.45
10.172	10.172 (0.709)	101	116848			100.01- 200.01	143.93
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.310	10.310 (0.719)	61	143619	2.00000	1.922	50.00- 150.00	100.00
10.283	10.283 (0.717)	96	50906			0.00- 86.92	35.45
10.310	10.310 (0.719)	98	37704			0.00- 74.85	26.25
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	34230	2.00000	1.622	50.00- 150.00	100.00(a)
10.421	10.421 (0.726)	43	136857			340.42- 440.42	399.82
46 2-Propanol					CAS #: 67-63-0		
10.642	10.642 (0.742)	45	126698	2.00000	1.415	50.00- 150.00	100.00(a)
10.642	10.642 (0.742)	43	41114			0.00- 76.39	32.45
10.642	10.642 (0.742)	59	5832			0.00- 53.62	4.60
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	165798	2.00000	1.806	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	23730	2.00000	1.588	50.00- 150.00	100.00
11.112	11.112 (0.775)	41	94743			377.54- 477.54	399.25
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.444 (0.798)	49	120552	2.00000	1.844	50.00- 150.00	100.00
11.444	11.444 (0.798)	84	40741			0.00- 86.35	33.80
11.444	11.444 (0.798)	51	38544			0.00- 80.54	31.97
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	74958	2.00000	1.387	50.00- 150.00	100.00
11.748	11.748 (0.819)	57	27891			0.00- 84.58	37.21
11.748	11.748 (0.819)	41	29037			0.00- 86.33	38.74
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	58833	2.00000	1.878	50.00- 150.00	100.00
11.886	11.886 (0.828)	61	131011			183.94- 283.94	222.68
11.886	11.886 (0.828)	98	36026			13.50- 113.50	61.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	125072	2.00000	1.715	50.00- 150.00	100.00
12.246	12.246 (0.854)	43	86055			20.34- 120.34	68.80
12.246	12.246 (0.854)	86	13924			0.00- 61.25	11.13
69 Vinyl Acetate					CAS #: 108-05-4		
12.743	12.743 (0.888)	86	11787	2.00000	1.644	50.00- 150.00	100.00(a)
12.743	12.743 (0.888)	43	218605			1872.40-1972.40	1854.63
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	147247	2.00000	1.864	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	41013			0.00- 81.43	27.85
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	22677	2.00000	1.649	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	147635			602.07- 702.07	651.03
13.822	13.822 (0.963)	57	9967			0.00- 97.16	43.95
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.877 (0.967)	61	108280	2.00000	1.827	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	48495			0.00- 97.05	44.79
13.877	13.877 (0.967)	98	31443			0.00- 80.30	29.04
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.319 (0.998)	42	78976	2.00000	1.627	50.00- 150.00	100.00
14.319	14.319 (0.998)	71	22134			0.00- 76.49	28.03
14.319	14.319 (0.998)	72	25727			0.00- 78.71	32.58
82 Chloroform					CAS #: 67-66-3		
14.402	14.402 (1.004)	83	115098	2.00000	1.900	50.00- 150.00	100.00
14.430	14.430 (1.006)	85	79895			20.65- 120.65	69.41
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.790	14.790 (1.031)	97	114658	2.00000	1.854	50.00- 150.00	100.00
14.790	14.790 (1.031)	99	74717			14.99- 114.99	65.17
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	56498	2.00000	1.739	50.00- 150.00	100.00
14.790	14.790 (1.031)	56	115585			145.33- 245.33	204.58
14.790	14.790 (1.031)	41	74020			73.65- 173.65	131.01
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	126372	2.00000	1.790	50.00- 150.00	100.00
15.038	15.038 (1.048)	117	132839			55.00- 155.00	105.12
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	140037	2.00000	1.828	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
15.453	15.453 (0.959)	77	29815			0.00- 71.75	21.29
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	295775	2.00000	1.702	50.00- 150.00	100.00
15.370	15.370 (1.071)	56	95095			0.00- 82.54	32.15
15.370	15.370 (1.071)	41	90440			0.00- 80.37	30.58
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.591	15.591 (0.967)	62	109320	2.00000	1.931	50.00- 150.00	100.00
15.564	15.564 (0.966)	64	32168			0.00- 82.49	29.43
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	42194	2.00000	1.703	50.00- 150.00	100.00
15.674	15.674 (0.973)	43	120634			238.48- 338.48	285.90
15.674	15.674 (0.973)	57	60707			102.27- 202.27	143.88
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	51670	2.00000	1.575	50.00- 150.00	100.00
16.587	16.587 (1.029)	130	58594			54.15- 154.15	113.40
16.587	16.587 (1.029)	97	37881			16.17- 116.17	73.31
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	62326	2.00000	1.704	50.00- 150.00	100.00
17.057	17.057 (1.058)	62	45858			21.69- 121.69	73.58
17.057	17.057 (1.058)	41	59619			32.68- 132.68	95.66
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	28831	2.00000	1.540	50.00- 150.00	100.00(a)
17.195	17.195 (1.067)	58	28208			48.37- 148.37	97.84
17.167	17.167 (1.065)	57	11365			0.00- 86.44	39.42
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	104654	2.00000	1.761	50.00- 150.00	100.00
17.499	17.499 (1.086)	85	72718			20.11- 120.11	69.48
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	68292	2.00000	1.620	50.00- 150.00	100.00
18.273	18.273 (1.134)	77	21728			0.00- 85.03	31.82
18.273	18.273 (1.134)	39	63056			43.00- 143.00	92.33
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	47059	2.00000	1.442	50.00- 150.00	100.00
18.467	18.467 (1.146)	43	142388			244.73- 344.73	302.57
18.467	18.467 (1.146)	85	14119			0.00- 81.51	30.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	153104	2.00000	1.803	50.00- 150.00	100.00
18.826	18.826 (1.168)	92	91087			10.54- 110.54	59.49
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	78775	2.00000	1.680	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	25253			0.00- 80.88	32.06
19.269	19.269 (0.904)	39	65923			33.61- 133.61	83.69
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	54405	2.00000	1.822	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	38525			12.31- 112.31	70.81
19.601	19.601 (0.920)	83	44401			34.26- 134.26	81.61
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	72390	2.00000	1.850	50.00- 150.00	100.00
19.794	19.794 (0.929)	129	59400			35.18- 135.18	82.06
19.766	19.766 (0.927)	131	59702			33.48- 133.48	82.47
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	62793	2.00000	1.385	50.00- 150.00	100.00(a)
19.905	19.905 (0.934)	43	131193			161.51- 261.51	208.93
19.932	19.932 (0.935)	100	7815			0.00- 63.21	12.45
122 Dibromochloromethane					CAS #: 124-48-1		
20.319	20.319 (0.953)	129	107546	2.00000	1.720	50.00- 150.00	100.00
20.319	20.319 (0.953)	127	81918			29.59- 129.59	76.17
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	92622	2.00000	1.639	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	82494			39.77- 139.77	89.07
127 Chlorobenzene					CAS #: 108-90-7		
21.370	21.370 (1.003)	112	134437	2.00000	1.816	50.00- 150.00	100.00
21.370	21.370 (1.003)	114	45617			0.00- 83.15	33.93
21.342	21.342 (1.001)	77	97547			21.80- 121.80	72.56
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.453 (1.006)	106	70882	2.00000	1.756	50.00- 150.00	100.00
21.425	21.425 (1.005)	91	220433			261.34- 361.34	310.99
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	91332	2.00000	1.768	50.00- 150.00	100.00
21.647	21.647 (1.016)	91	178201			147.02- 247.02	195.11
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	80187	2.00000	1.678	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	163645			158.66- 258.66	204.08
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	115808	2.00000	1.591	50.00- 150.00	100.00
22.365	22.365 (1.049)	78	65573			10.48- 110.48	56.62
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	84433	2.00000	1.567	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	46032			2.34- 102.34	54.52
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	218445	2.00000	1.563	50.00- 150.00	100.00
22.918	22.918 (1.075)	120	61960			0.00- 77.95	28.36
22.891	22.891 (1.074)	51	35534			0.00- 67.08	16.27
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	135940	2.00000	1.836	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	94468			21.97- 121.97	69.49
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	299389	2.00000	1.720	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	68237			0.00- 73.91	22.79
23.582	23.582 (1.106)	105	10578			0.00- 54.14	3.53
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	272158	2.00000	1.631	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	89431			0.00- 82.75	32.86
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	226058	2.00000	1.656	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	107394			1.24- 101.24	47.51
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	209397	2.00000	1.556	50.00- 150.00	100.00
24.494	24.494 (1.149)	120	99488			0.00- 97.02	47.51
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	144856	2.00000	1.651	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	86628			12.07- 112.07	59.80
25.075	25.075 (1.176)	111	64450			0.00- 94.74	44.49
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	144342	2.00000	1.567	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	91532			13.30- 113.30	63.41
25.213	25.213 (1.183)	111	59148			0.00- 92.03	40.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.435	25.435 (1.193)	91	202639	2.00000	1.503	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	39102			0.00- 69.83	19.30
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	140718	2.00000	1.587	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	87233			12.84- 112.84	61.99
25.877	25.877 (1.214)	111	62796			0.00- 95.15	44.63
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	75307	2.00000	1.901	50.00- 150.00	100.00(a)
28.753	28.753 (1.349)	182	71903			44.64- 144.64	95.48
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	72237	2.00000	2.184	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	47668			13.71- 113.71	65.99
167 Naphthalene					CAS #: 91-20-3		
29.305	29.305 (1.375)	128	151003	2.00000	1.774	50.00- 150.00	100.00(a)
29.305	29.305 (1.375)	127	18800			0.00- 62.37	12.45
29 Isopentane					CAS #: 78-78-4		
8.320	8.320 (0.580)	43	111216	2.00000	1.808	50.00- 150.00	100.00(a)
8.320	8.320 (0.580)	57	80122			17.61- 117.61	72.04
19 Butane					CAS #: 106-97-8		
6.744	6.744 (0.470)	58	20983	2.00000	2.304	50.00- 150.00	100.00
6.744	6.744 (0.470)	43	148988			787.53- 887.53	710.04
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	68767	2.00000	1.725	50.00- 150.00	100.00
16.863	16.863 (1.175)	98	30019			0.00- 97.34	43.65
16.863	16.863 (1.175)	55	101268			95.79- 195.79	147.26
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	107264	2.00000	2.250	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	26486			0.00- 74.69	24.69
11.472	11.472 (0.800)	57	12464			0.00- 61.62	11.62

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080419.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 2.0ppbv (200 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	435701	-6.47
97 1,4-Difluorobenze	1452055	871233	2032877	1406833	-3.11
126 Chlorobenzene-d5	1558716	935230	2182202	1448488	-7.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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.

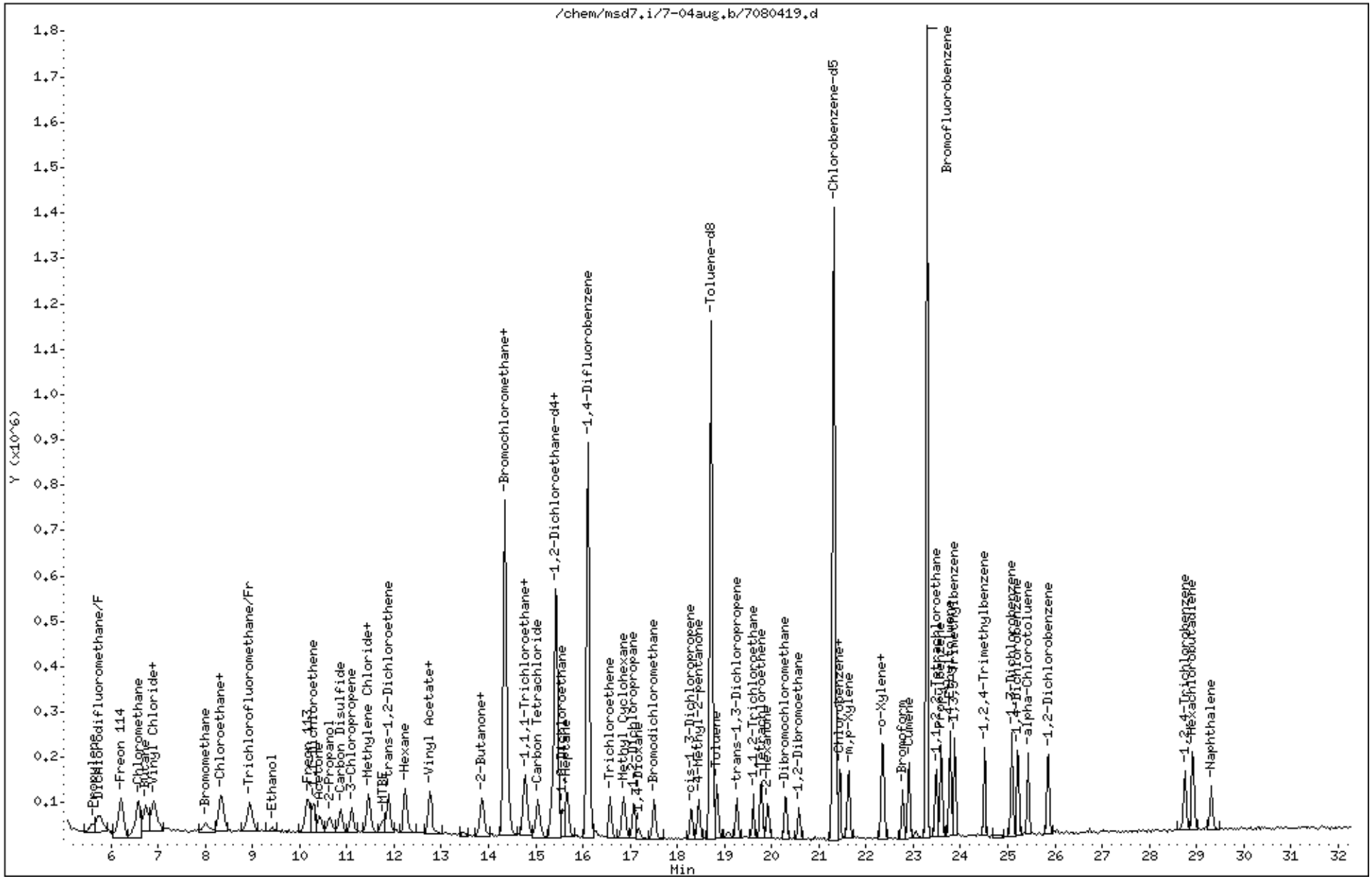
0115

Data File: /chem/msd7.i/7-04aug.b/7080419.d
Date : 04-AUG-2008 18:01
Client ID: Level 3
Sample Info: 2.0mL #1612-91

Instrument: msd7.i

Operator: dfm
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-27aug.b/7082709.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 27-AUG-2008 15:00
Operator : ra Inst ID: msd7.i
Smp Info : 25mL #1541-251
Misc Info : 25ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-27aug.b/t14q804c.m
Meth Date : 27-Aug-2008 15:46 ctaylor Quant Type: ISTD
Cal Date : 27-AUG-2008 15:00 Cal File: 7082709.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp2c.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	294911	25.0000		50.00- 150.00	100.00
14.319	14.319 (1.000)	128	221428			26.80- 126.80	75.08
14.319	14.319 (1.000)	49	651051			216.97- 316.97	220.76
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	898554	25.0000		50.00- 150.00	100.00
16.089	16.089 (1.000)	88	152579			0.00- 67.09	16.98
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	896931	25.0000		50.00- 150.00	100.00
21.287	21.287 (1.000)	82	458134			1.24- 101.24	51.08
204 Propylene Oxide					CAS #: 75-56-9		
9.868	9.868 (0.688)	58	43452	25.0000	25.298	50.00- 150.00	100.00
9.840	9.840 (0.686)	43	49924			77.34- 177.34	114.89
9.868	9.868 (0.688)	57	5912			0.00- 80.14	13.61
152 D-Limonene					CAS #: 5989-27-5		
24.882	24.882 (1.167)	68	914888	25.0000	26.020	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
152 D-Limonene (continued)							
24.882	24.882 (1.167)	93	648025			23.79- 123.79	70.83

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7082709.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-27aug.b/t14q804c.m
Misc Info: 25ppbv (200ppbv)

Calibration Date: 27-AUG-2008
Calibration Time: 08:32
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	312734	187640	437828	294911	-5.70
97 1,4-Difluorobenze	994459	596675	1392243	898554	-9.64
126 Chlorobenzene-d5	1074720	644832	1504608	896931	-16.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.09	15.76	16.42	16.09	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

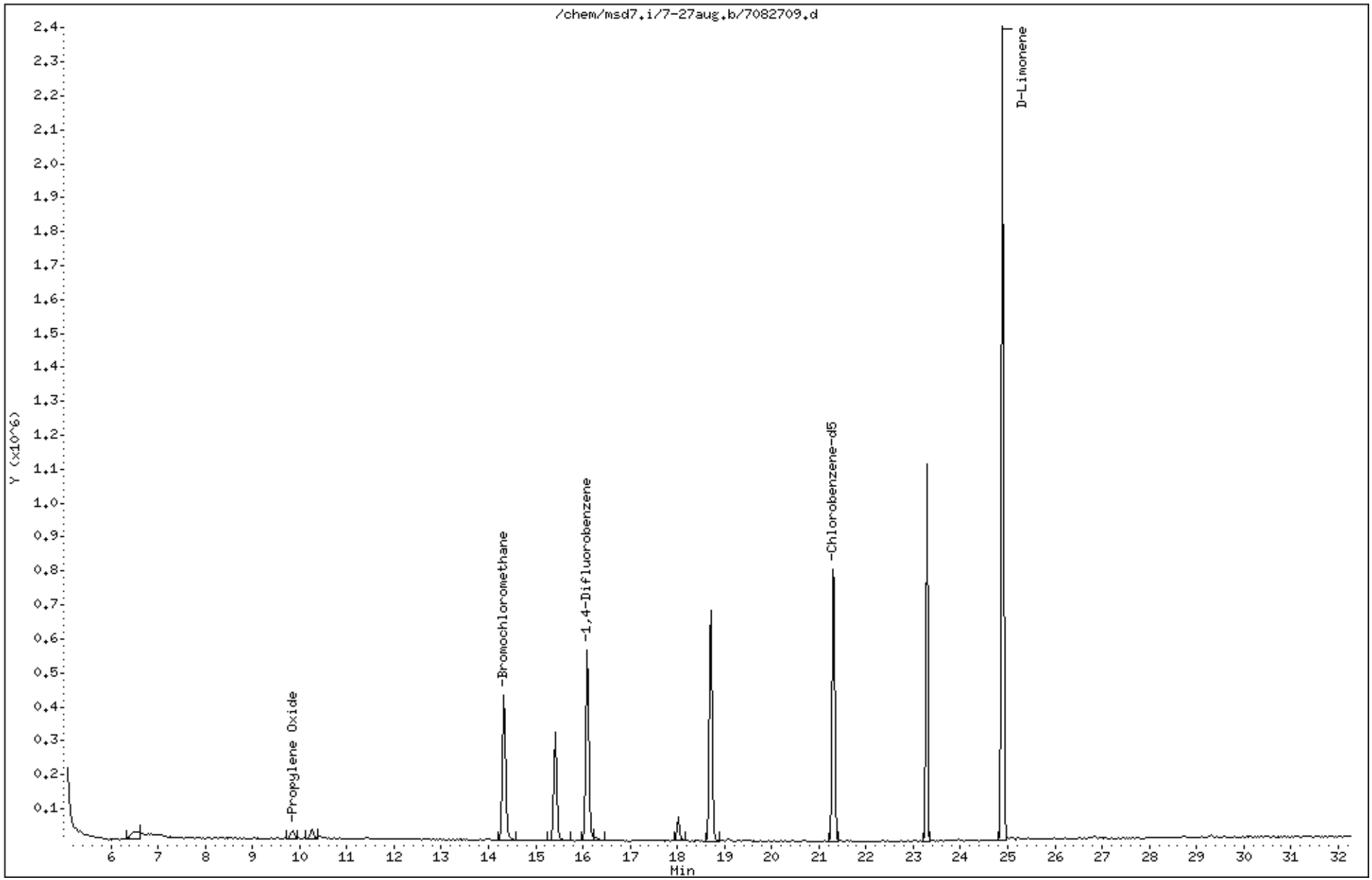
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0119

Data File: /chem/msd7.i/7-27aug.b/7082709.d
Date : 27-AUG-2008 15:00
Client ID: Level 4
Sample Info: 25mL #1541-251

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-05aug.b/7080504.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 05-AUG-2008 15:06
Operator : ra Inst ID: msd7.i
Smp Info : 8mL #1612-99
Misc Info : 8/48 ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-05aug.b/t14q804a.m
Meth Date : 05-Aug-2008 17:38 sruth Quant Type: ISTD
Cal Date : 05-AUG-2008 15:06 Cal File: 7080504.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp37a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.333	14.333 (1.000)	130	426310	25.0000		50.00- 150.00	100.00
14.333	14.333 (1.000)	128	329211			27.35- 127.35	77.22
14.333	14.333 (1.000)	49	1023307			243.65- 343.65	240.04
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.103	16.103 (1.000)	114	1354142	25.0000		50.00- 150.00	100.00
16.103	16.103 (1.000)	88	228662			0.00- 67.37	16.89
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.301	21.301 (1.000)	117	1285484	25.0000		50.00- 150.00	100.00
21.301	21.301 (1.000)	82	648982			1.17- 101.17	50.49
96 2-Heptanone					CAS #: 110-43-0		
22.462	22.462 (1.567)	58	412516	8.00000	9.145	50.00- 150.00	100.00
22.462	22.462 (1.567)	43	750752			137.15- 237.15	181.99
146 Diisobutyl Ketone					CAS #: 108-83-8		
24.010	24.010 (1.127)	57	866265	8.00000	8.784	50.00- 150.00	100.00
24.038	24.038 (1.129)	85	482905			7.64- 107.64	55.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
146 Diisobutyl Ketone (continued)							
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
99 Isobutanol					CAS #: 78-83-1		
15.080	15.080 (1.052)	59	8391	8.00000	6.724	50.00- 150.00	100.00
15.080	15.080 (1.052)	41	163141			1510.23-1610.23	1944.24
15.080	15.080 (1.052)	43	196288			1832.27-1932.27	2339.27
98 1-Butanol					CAS #: 71-36-3		
16.269	16.269 (1.010)	56	172753	8.00000	7.916	50.00- 150.00	100.00
16.269	16.269 (1.010)	41	136099			26.38- 126.38	78.78
16.269	16.269 (1.010)	43	104686			8.76- 108.76	60.60
71 1-Propanol					CAS #: 71-23-8		
12.785	12.785 (0.892)	42	62803	8.00000	7.650	50.00- 150.00	100.00
12.785	12.785 (0.892)	59	62387			122.84- 222.84	99.34
12.646	12.646 (0.882)	41	235764			312.40- 412.40	375.40
73 t-Butylethyl Ether					CAS #: 637-92-3		
13.310	13.310 (0.929)	59	615911	8.00000	7.292	50.00- 150.00	100.00
13.310	13.310 (0.929)	87	150940			0.00- 75.80	24.51
13.310	13.310 (0.929)	41	119770			0.00- 69.88	19.45
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
15.494	15.494 (1.081)	73	354376	8.00000	7.191	50.00- 150.00	100.00
15.494	15.494 (1.081)	87	90815			0.00- 75.71	25.63
15.494	15.494 (1.081)	55	161090			0.00- 95.23	45.46
68 Isopropyl ether					CAS #: 108-20-3		
12.646	12.646 (0.882)	45	1229860	8.00000	8.176	50.00- 150.00	100.00
12.646	12.646 (0.882)	87	172612			0.00- 64.23	14.04
12.646	12.646 (0.882)	59	109701			0.00- 61.63	8.92
119 Butyl Acetate					CAS #: 123-86-4		
20.029	20.029 (1.244)	56	269114	8.00000	8.456	50.00- 150.00	100.00
20.029	20.029 (1.244)	73	64568			0.00- 75.20	23.99
20.029	20.029 (1.244)	43	742467			216.33- 316.33	275.89
77 Ethyl Acetate					CAS #: 141-78-6		
13.808	13.808 (0.963)	70	49502	8.00000	8.706	50.00- 150.00	100.00
13.808	13.808 (0.963)	45	108919			163.07- 263.07	220.03
13.808	13.808 (0.963)	61	135767			257.91- 357.91	274.27
135 Cyclohexanone					CAS #: 108-94-1		
23.236	23.236 (1.091)	55	369227	8.00000	8.692	50.00- 150.00	100.00
23.236	23.236 (1.091)	98	88451			0.00- 74.78	23.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
135 Cyclohexanone (continued)							
23.236	23.236 (1.091)	42	267843			20.11- 120.11	72.54
5 Freon 143a					CAS #: 420-46-2		
5.335	5.335 (0.372)	65	112722	8.00000	7.747	50.00- 150.00	100.00
5.392	5.392 (0.376)	69	551238			439.02- 539.02	489.02
5.307	5.307 (0.370)	64	35550			0.00- 75.90	31.54
6 Freon142b					CAS #: 75-68-3		
6.321	6.321 (0.441)	65	578665	8.00000	8.029	50.00- 150.00	100.00
6.321	6.321 (0.441)	45	172697			0.00- 82.28	29.84
9 Freon 13					CAS #: 75-72-9		
5.251	5.251 (0.366)	85	43573	8.00000	6.342	50.00- 150.00	100.00
5.194	5.194 (0.362)	87	17410			0.00- 98.31	39.96
5.392	5.392 (0.376)	69	551238			1041.20-1141.20	1265.09
13 Freon 134a					CAS #: 811-97-2		
5.476	5.476 (0.382)	83	237986	8.00000	8.533	50.00- 150.00	100.00
5.392	5.392 (0.376)	69	551238			211.97- 311.97	231.63
5.448	5.448 (0.380)	63	37939			0.00- 68.81	15.94
15 Freon 152a					CAS #: 75-37-6		
5.701	5.701 (0.398)	65	157254	8.00000	7.784	50.00- 150.00	100.00
5.814	5.814 (0.406)	51	1072472			612.44- 712.44	682.00
5.701	5.701 (0.398)	47	121682			27.86- 127.86	77.38
17 Freon 22					CAS #: 75-45-6		
5.814	5.814 (0.406)	51	1075692	8.00000	7.780	50.00- 150.00	100.00
5.814	5.814 (0.406)	67	79352			0.00- 57.46	7.38
5.814	5.814 (0.406)	85	9791			0.00- 50.74	0.91
26 Methanol					CAS #: 67-56-1		
7.560	7.560 (0.527)	31	562075	48.0000	38.592	50.00- 150.00	100.00(a)
7.560	7.560 (0.527)	32	1039069			211.65- 311.65	184.86
41 Freon123					CAS #: 306-83-2		
9.937	9.937 (0.693)	83	356475	8.00000	7.779	50.00- 150.00	100.00
9.909	9.909 (0.691)	133	80816			0.00- 74.22	22.67
9.909	9.909 (0.691)	85	249793			20.83- 120.83	70.07
40 Freon123a					CAS #: 354-23-4		
9.771	9.771 (0.682)	117	217493	8.00000	7.911	50.00- 150.00	100.00
9.771	9.771 (0.682)	67	305321			97.50- 197.50	140.38
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.912	8.912 (0.622)	67	501901	8.00000	7.787	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
34 Dichlorofluoromethane/Fr21 (continued)							
8.912	8.912 (0.622)	69	144681			0.00- 78.64	28.83
8.912	8.912 (0.622)	35	41144			0.00- 59.06	8.20
136 Bromobenzene					CAS #: 108-86-1		
23.568	23.568 (1.106)	156	313600	8.00000	8.210	50.00- 150.00	100.00
23.568	23.568 (1.106)	158	293802			46.59- 146.59	93.69
23.568	23.568 (1.106)	77	656430			163.31- 263.31	209.32
158 Butylbenzene					CAS #: 104-51-8		
25.642	25.642 (1.204)	134	266709	8.00000	8.112	50.00- 150.00	100.00
25.642	25.642 (1.204)	91	1080283			346.60- 446.60	405.04
25.642	25.642 (1.204)	92	578264			165.24- 265.24	216.81
149 sec-Butylbenzene					CAS #: 135-98-8		
24.757	24.757 (1.162)	105	1218882	8.00000	8.285	50.00- 150.00	100.00
24.757	24.757 (1.162)	134	229676			0.00- 68.97	18.84
24.757	24.757 (1.162)	91	201217			0.00- 66.36	16.51
148 tert-Butylbenzene					CAS #: 98-06-6		
24.397	24.397 (1.145)	119	792927	8.00000	8.156	50.00- 150.00	100.00
24.397	24.397 (1.145)	134	169568			0.00- 72.11	21.39
24.397	24.397 (1.145)	91	557764			20.04- 120.04	70.34
141 2-Chlorotoluene					CAS #: 95-49-8		
23.844	23.844 (1.119)	126	256307	8.00000	8.260	50.00- 150.00	100.00
23.844	23.844 (1.119)	91	771936			250.64- 350.64	301.18
23.844	23.844 (1.119)	65	102046			0.00- 89.05	39.81
143 4-Chlorotoluene					CAS #: 106-43-4		
24.010	24.010 (1.127)	126	264975	8.00000	8.271	50.00- 150.00	100.00
24.010	24.010 (1.127)	91	791200			253.38- 353.38	298.59
24.010	24.010 (1.127)	63	141252			4.54- 104.54	53.31
162 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
27.245	27.245 (1.279)	157	318382	8.00000	8.003	50.00- 150.00	100.00
27.218	27.218 (1.278)	75	366181			71.83- 171.83	115.01
27.245	27.245 (1.279)	155	248402			30.79- 130.79	78.02
118 1,3-Dichloropropane					CAS #: 142-28-9		
19.918	19.918 (1.237)	76	295598	8.00000	8.149	50.00- 150.00	100.00
19.918	19.918 (1.237)	41	331456			64.31- 164.31	112.13
19.918	19.918 (1.237)	78	89581			0.00- 81.79	30.31
78 2,2-Dichloropropane					CAS #: 594-20-7		
13.835	13.835 (0.965)	77	283535	8.00000	7.773	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	78 2,2-Dichloropropane (continued)						
13.835	13.835 (0.965)	79	98045			0.00- 83.22	34.58
13.835	13.835 (0.965)	97	46644			0.00- 66.31	16.45
	153 p-Cymene				CAS #: 99-87-6		
24.978	24.978 (1.173)	119	1137667	8.00000	8.288	50.00- 150.00	100.00
24.978	24.978 (1.173)	134	263092			0.00- 73.72	23.13
24.978	24.978 (1.173)	91	295375			0.00- 75.32	25.96
	125 1,1,1,2-Tetrachloroethane				CAS #: 630-20-6		
21.467	21.467 (1.008)	131	296363	8.00000	8.100	50.00- 150.00	100.00
21.467	21.467 (1.008)	117	197133			20.13- 120.13	66.52
21.467	21.467 (1.008)	95	118875			0.00- 90.38	40.11
	138 1,2,3-Trichloropropane				CAS #: 96-18-4		
23.623	23.623 (1.109)	110	160438	8.00000	7.763	50.00- 150.00	100.00
23.623	23.623 (1.109)	75	507584			245.11- 345.11	316.37
23.623	23.623 (1.109)	61	172197			51.73- 151.73	107.33
	154 1,2,3-Trimethylbenzene				CAS #: 526-73-8		
25.227	25.227 (1.184)	120	400845	8.00000	8.427	50.00- 150.00	100.00
25.227	25.227 (1.184)	105	887602			179.57- 279.57	221.43
25.227	25.227 (1.184)	77	115556			0.00- 80.55	28.83
	201 Pentachloroethane				CAS #: 76-01-7		
24.563	24.563 (1.153)	167	245966	8.00000	8.510	50.00- 150.00	100.00
24.536	24.536 (1.152)	117	314287			78.93- 178.93	127.78
24.563	24.563 (1.153)	169	111715			0.00- 98.19	45.42
	88 1,1-Dichloropropene				CAS #: 563-58-6		
15.052	15.052 (0.935)	110	93909	8.00000	8.005	50.00- 150.00	100.00
15.052	15.052 (0.935)	75	273143			236.31- 336.31	290.86
	55 Cyclopentene				CAS #: 142-29-0		
11.209	11.209 (0.782)	67	492967	8.00000	8.314	50.00- 150.00	100.00
11.209	11.209 (0.782)	68	187428			0.00- 88.49	38.02
11.209	11.209 (0.782)	53	168129			0.00- 82.99	34.11

QC Flag Legend

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

Report Date: 05-Aug-2008 17:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080504.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-05aug.b/t14q804a.m
Misc Info: 8/48 ppbv (200 ppbv)

Calibration Date: 05-AUG-2008
Calibration Time: 15:45
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	433524	260114	606934	426310	-1.66
97 1,4-Difluorobenze	1378748	827249	1930247	1354142	-1.78
126 Chlorobenzene-d5	1402863	841718	1964008	1285484	-8.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.33	14.00	14.66	14.33	0.00
97 1,4-Difluorobenze	16.10	15.77	16.43	16.10	0.00
126 Chlorobenzene-d5	21.30	20.97	21.63	21.30	0.00

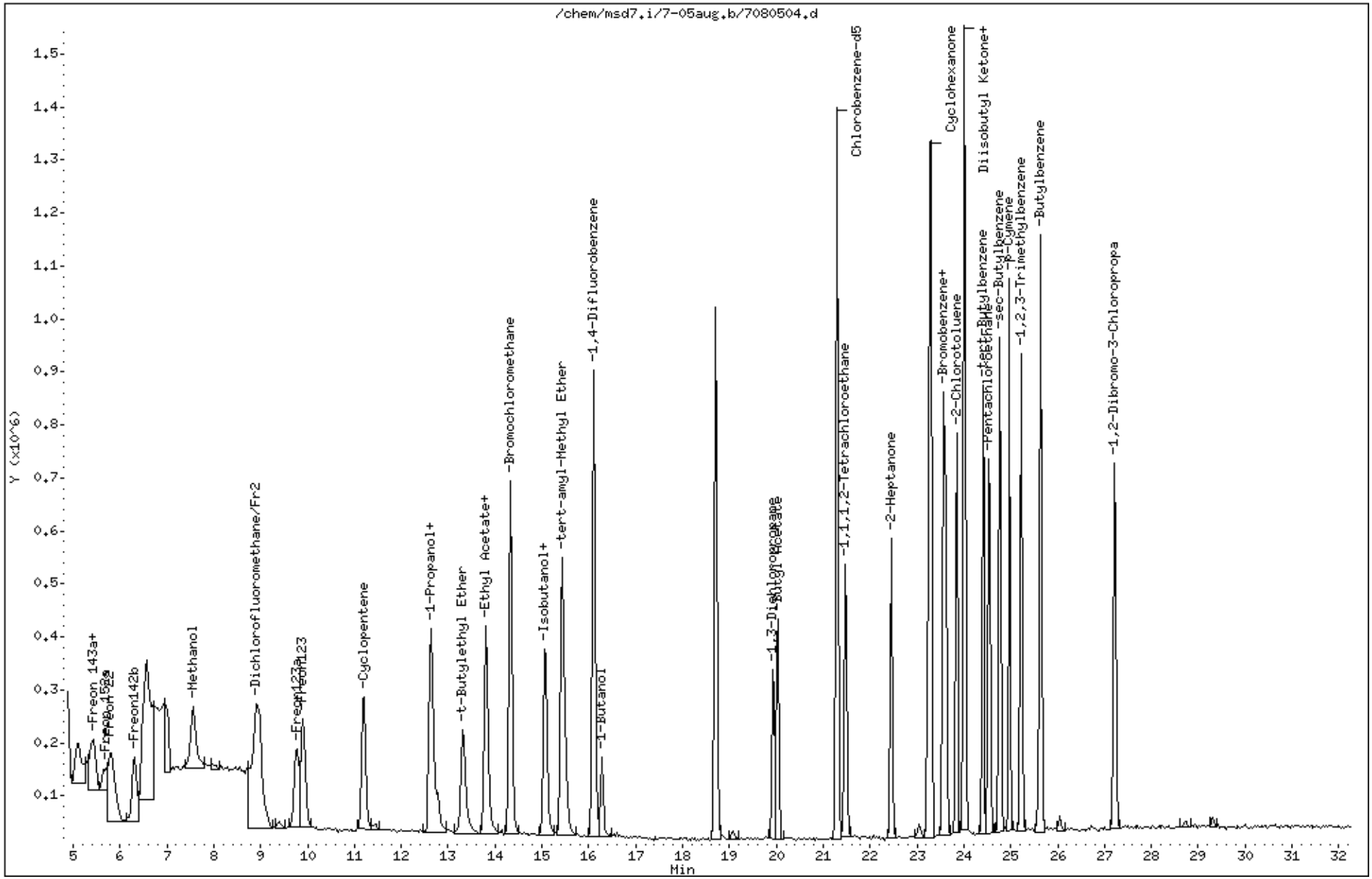
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0126

Data File: /chem/msd7.i/7-05aug.b/7080504.d
Date : 05-AUG-2008 15:06
Client ID: Level 4
Sample Info: 8mL #1612-99

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080420.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 04-AUG-2008 18:40
Operator : dfm Inst ID: msd7.i
Smp Info : 25mL #1612-91
Misc Info : 25ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:06 sscott Quant Type: ISTD
Cal Date : 04-AUG-2008 18:40 Cal File: 7080420.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	473443	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	352920			27.26- 127.26	74.54
14.347	14.347 (1.000)	49	1375138			253.14- 353.14	290.45
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1425500	25.0000		50.00- 150.00	100.00
16.117	16.117 (1.000)	88	244886			0.00- 67.42	17.18
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1534014	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	781109			1.03- 101.03	50.92
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	882805	25.0000	24.685	50.00- 150.00	100.00
15.425	15.425 (1.075)	67	420420			0.00- 97.37	47.62
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1407495	25.0000	25.793	50.00- 150.00	100.00
18.716	18.716 (1.161)	70	196828			0.00- 63.85	13.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	1064273			26.51- 126.51	75.61
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	780546	25.0000	24.728	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1093521			89.41- 189.41	140.10
23.278	23.278 (1.092)	176	775439			45.98- 145.98	99.35
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	1060049	25.0000	26.259	50.00- 150.00	100.00
5.637	5.637 (0.393)	42	703339			16.57- 116.57	66.35
5.610	5.610 (0.391)	39	836468			28.60- 128.60	78.91
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	3084268	25.0000	26.352	50.00- 150.00	100.00
5.776	5.776 (0.403)	87	949018			0.00- 81.85	30.77
16 Freon 114					CAS #: 76-14-2		
6.218	6.218 (0.433)	135	1767430	25.0000	28.269	50.00- 150.00	100.00
6.218	6.218 (0.433)	137	541235			0.00- 84.02	30.62
18 Chloromethane					CAS #: 74-87-3		
6.550	6.550 (0.457)	50	1329327	25.0000	26.702	50.00- 150.00	100.00
6.550	6.550 (0.457)	52	410126			0.00- 81.05	30.85
20 Vinyl Chloride					CAS #: 75-01-4		
6.882	6.882 (0.480)	62	1301372	25.0000	26.343	50.00- 150.00	100.00
6.882	6.882 (0.480)	64	380611			0.00- 84.96	29.25
22 1,3-Butadiene					CAS #: 106-99-0		
6.937	6.937 (0.484)	54	1166225	25.0000	25.069	50.00- 150.00	100.00
6.937	6.937 (0.484)	39	1195076			46.88- 146.88	102.47
25 Bromomethane					CAS #: 74-83-9		
8.015	8.015 (0.559)	94	778317	25.0000	25.512	50.00- 150.00	100.00
8.015	8.015 (0.559)	96	702096			41.33- 141.33	90.21
27 Chloroethane					CAS #: 75-00-3		
8.347	8.347 (0.582)	64	604484	25.0000	26.314	50.00- 150.00	100.00
8.347	8.347 (0.582)	49	238798			0.00- 94.43	39.50
8.347	8.347 (0.582)	66	164357			0.00- 79.28	27.19
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.955	8.955 (0.624)	101	3134551	25.0000	26.954	50.00- 150.00	100.00
8.955	8.955 (0.624)	103	2025989			15.68- 115.68	64.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.398	9.398 (0.655)	45	506084	25.0000	26.246	50.00- 150.00	100.00
9.425	9.425 (0.657)	43	114107			0.00- 73.90	22.55
9.425	9.425 (0.657)	46	199554			0.00- 88.16	39.43
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	1266184	25.0000	27.113	50.00- 150.00	100.00
10.172	10.172 (0.709)	153	786352			16.40- 116.40	62.10
10.172	10.172 (0.709)	101	1862441			100.01- 200.01	147.09
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	2253539	25.0000	27.749	50.00- 150.00	100.00
10.310	10.310 (0.719)	96	798317			0.00- 86.92	35.43
10.310	10.310 (0.719)	98	501009			0.00- 74.85	22.23
45 Acetone					CAS #: 67-64-1		
10.448	10.448 (0.728)	58	605336	25.0000	26.406	50.00- 150.00	100.00
10.448	10.448 (0.728)	43	2392435			340.42- 440.42	395.22
46 2-Propanol					CAS #: 67-63-0		
10.642	10.642 (0.742)	45	2564737	25.0000	26.366	50.00- 150.00	100.00
10.642	10.642 (0.742)	43	637584			0.00- 76.39	24.86
10.642	10.642 (0.742)	59	86836			0.00- 53.62	3.39
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	2631844	25.0000	26.390	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	415920	25.0000	25.614	50.00- 150.00	100.00
11.112	11.112 (0.775)	41	1831577			377.54- 477.54	440.37
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.444 (0.798)	49	1855631	25.0000	26.118	50.00- 150.00	100.00
11.444	11.444 (0.798)	84	685710			0.00- 86.35	36.95
11.444	11.444 (0.798)	51	567043			0.00- 80.54	30.56
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	1568554	25.0000	26.711	50.00- 150.00	100.00
11.776	11.776 (0.821)	57	524675			0.00- 84.58	33.45
11.776	11.776 (0.821)	41	555758			0.00- 86.33	35.43
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	912918	25.0000	26.815	50.00- 150.00	100.00
11.886	11.886 (0.828)	61	2145286			183.94- 283.94	234.99
11.886	11.886 (0.828)	98	570732			13.50- 113.50	62.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	2188711	25.0000	27.622	50.00- 150.00	100.00
12.246	12.246 (0.854)	43	1471200			20.34- 120.34	67.22
12.246	12.246 (0.854)	86	219521			0.00- 61.25	10.03
69 Vinyl Acetate					CAS #: 108-05-4		
12.743	12.743 (0.888)	86	199312	25.0000	25.590	50.00- 150.00	100.00
12.743	12.743 (0.888)	43	4022941			1872.40-1972.40	2018.41
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	2415074	25.0000	28.135	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	694503			0.00- 81.43	28.76
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	374480	25.0000	25.064	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	2765951			602.07- 702.07	738.61
13.822	13.822 (0.963)	57	197410			0.00- 97.16	52.72
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.877 (0.967)	61	1756719	25.0000	27.281	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	818176			0.00- 97.05	46.57
13.877	13.877 (0.967)	98	504787			0.00- 80.30	28.73
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.319 (0.998)	42	1452812	25.0000	27.540	50.00- 150.00	100.00
14.319	14.319 (0.998)	71	352220			0.00- 76.49	24.24
14.347	14.347 (1.000)	72	372818			0.00- 78.71	25.66
82 Chloroform					CAS #: 67-66-3		
14.430	14.430 (1.006)	83	1712363	25.0000	26.019	50.00- 150.00	100.00
14.430	14.430 (1.006)	85	1252189			20.65- 120.65	73.13
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.789	14.789 (1.031)	97	1873922	25.0000	27.888	50.00- 150.00	100.00
14.789	14.789 (1.031)	99	1181223			14.99- 114.99	63.03
85 Cyclohexane					CAS #: 110-82-7		
14.789	14.789 (1.031)	84	944212	25.0000	26.748	50.00- 150.00	100.00
14.789	14.789 (1.031)	56	1862985			145.33- 245.33	197.31
14.789	14.789 (1.031)	41	1150408			73.65- 173.65	121.84
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	2096615	25.0000	27.325	50.00- 150.00	100.00
15.038	15.038 (1.048)	117	2241740			55.00- 155.00	106.92
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	2141622	25.0000	27.593	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
15.453	15.453 (0.959)	77	475679			0.00- 71.75	22.21
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	5166040	25.0000	27.358	50.00- 150.00	100.00
15.370	15.370 (1.071)	56	1711990			0.00- 82.54	33.14
15.370	15.370 (1.071)	41	1550426			0.00- 80.37	30.01
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	1652083	25.0000	28.801	50.00- 150.00	100.00
15.564	15.564 (0.966)	64	506309			0.00- 82.49	30.65
94 Heptane					CAS #: 142-82-5		
15.674	15.674 (0.973)	71	721266	25.0000	28.738	50.00- 150.00	100.00
15.674	15.674 (0.973)	43	2052385			238.48- 338.48	284.55
15.674	15.674 (0.973)	57	1091655			102.27- 202.27	151.35
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	954412	25.0000	28.704	50.00- 150.00	100.00
16.587	16.587 (1.029)	130	957176			54.15- 154.15	100.29
16.587	16.587 (1.029)	97	603803			16.17- 116.17	63.26
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	1073661	25.0000	28.962	50.00- 150.00	100.00
17.057	17.057 (1.058)	62	773675			21.69- 121.69	72.06
17.057	17.057 (1.058)	41	870310			32.68- 132.68	81.06
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	514160	25.0000	27.109	50.00- 150.00	100.00
17.195	17.195 (1.067)	58	527273			48.37- 148.37	102.55
17.195	17.195 (1.067)	57	181938			0.00- 86.44	35.39
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	1735564	25.0000	28.828	50.00- 150.00	100.00
17.499	17.499 (1.086)	85	1225558			20.11- 120.11	70.61
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	1244108	25.0000	29.130	50.00- 150.00	100.00
18.273	18.273 (1.134)	77	400397			0.00- 85.03	32.18
18.273	18.273 (1.134)	39	1167788			43.00- 143.00	93.87
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	988005	25.0000	29.868	50.00- 150.00	100.00
18.467	18.467 (1.146)	43	2902386			244.73- 344.73	293.76
18.467	18.467 (1.146)	85	298616			0.00- 81.51	30.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	2393184	25.0000	27.815	50.00- 150.00	100.00
18.826	18.826 (1.168)	92	1477330			10.54- 110.54	61.73
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	1425479	25.0000	28.710	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	443190			0.00- 80.88	31.09
19.269	19.269 (0.904)	39	1189712			33.61- 133.61	83.46
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.600	19.600 (0.920)	97	876619	25.0000	27.721	50.00- 150.00	100.00
19.600	19.600 (0.920)	99	555241			12.31- 112.31	63.34
19.600	19.600 (0.920)	83	724446			34.26- 134.26	82.64
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	1124559	25.0000	27.134	50.00- 150.00	100.00
19.794	19.794 (0.929)	129	969134			35.18- 135.18	86.18
19.794	19.794 (0.929)	131	953548			33.48- 133.48	84.79
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	1363812	25.0000	28.413	50.00- 150.00	100.00
19.905	19.905 (0.934)	43	2904837			161.51- 261.51	212.99
19.905	19.905 (0.934)	100	183528			0.00- 63.21	13.46
122 Dibromochloromethane					CAS #: 124-48-1		
20.319	20.319 (0.953)	129	1910985	25.0000	28.862	50.00- 150.00	100.00
20.319	20.319 (0.953)	127	1469691			29.59- 129.59	76.91
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	1662573	25.0000	27.782	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	1529256			39.77- 139.77	91.98
127 Chlorobenzene					CAS #: 108-90-7		
21.370	21.370 (1.003)	112	2105598	25.0000	26.856	50.00- 150.00	100.00
21.370	21.370 (1.003)	114	675763			0.00- 83.15	32.09
21.342	21.342 (1.001)	77	1304963			21.80- 121.80	61.98
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.453 (1.006)	106	1166220	25.0000	27.276	50.00- 150.00	100.00
21.453	21.453 (1.006)	91	3600856			261.34- 361.34	308.76
129 m,p-Xylene					CAS #: 108-38-3		
21.646	21.646 (1.016)	106	1469925	25.0000	26.869	50.00- 150.00	100.00
21.646	21.646 (1.016)	91	2922245			147.02- 247.02	198.80
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	1358356	25.0000	26.841	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	2867306			158.66- 258.66	211.09
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	2233840	25.0000	28.986	50.00- 150.00	100.00
22.365	22.365 (1.049)	78	1153607			10.48- 110.48	51.64
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	1605197	25.0000	28.127	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	834375			2.34- 102.34	51.98
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	3906428	25.0000	26.392	50.00- 150.00	100.00
22.918	22.918 (1.075)	120	1085614			0.00- 77.95	27.79
22.891	22.891 (1.074)	51	631012			0.00- 67.08	16.15
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	2032459	25.0000	25.918	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	1445894			21.97- 121.97	71.14
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	4800090	25.0000	26.034	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	1141124			0.00- 73.91	23.77
23.582	23.582 (1.106)	105	178481			0.00- 54.14	3.72
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	4446443	25.0000	25.169	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	1432168			0.00- 82.75	32.21
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	3413130	25.0000	23.613	50.00- 150.00	100.00
23.858	23.858 (1.119)	120	1720086			1.24- 101.24	50.40
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	3378598	25.0000	23.709	50.00- 150.00	100.00
24.494	24.494 (1.149)	120	1594644			0.00- 97.02	47.20
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	2207986	25.0000	23.757	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	1374657			12.07- 112.07	62.26
25.075	25.075 (1.176)	111	979910			0.00- 94.74	44.38
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	2288597	25.0000	23.467	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	1420258			13.30- 113.30	62.06
25.213	25.213 (1.183)	111	965353			0.00- 92.03	42.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.434	25.434 (1.193)	91	3494996	25.0000	24.471	50.00- 150.00	100.00
25.434	25.434 (1.193)	126	700943			0.00- 69.83	20.06
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	2152170	25.0000	22.925	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	1346004			12.84- 112.84	62.54
25.877	25.877 (1.214)	111	983752			0.00- 95.15	45.71
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.752	28.752 (1.349)	180	738948	25.0000	17.611	50.00- 150.00	100.00
28.752	28.752 (1.349)	182	705765			44.64- 144.64	95.51
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	719262	25.0000	20.538	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	455408			13.71- 113.71	63.32
167 Naphthalene					CAS #: 91-20-3		
29.305	29.305 (1.375)	128	1440272	25.0000	15.982	50.00- 150.00	100.00
29.305	29.305 (1.375)	127	178520			0.00- 62.37	12.39
29 Isopentane					CAS #: 78-78-4		
8.347	8.347 (0.582)	43	1797079	25.0000	26.892	50.00- 150.00	100.00
8.347	8.347 (0.582)	57	1165194			17.61- 117.61	64.84
19 Butane					CAS #: 106-97-8		
6.743	6.743 (0.470)	58	241605	25.0000	24.413	50.00- 150.00	100.00
6.743	6.743 (0.470)	43	2199824			787.53- 887.53	910.50
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	1180793	25.0000	27.254	50.00- 150.00	100.00
16.863	16.863 (1.175)	98	550350			0.00- 97.34	46.61
16.863	16.863 (1.175)	55	1707011			95.79- 195.79	144.56
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.472	11.472 (0.800)	59	1407508	25.0000	27.168	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	343948			0.00- 74.69	24.44
11.444	11.444 (0.798)	57	145359			0.00- 61.62	10.33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080420.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 25ppbv (200 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	473443	1.63
97 1,4-Difluorobenze	1452055	871233	2032877	1425500	-1.83
126 Chlorobenzene-d5	1558716	935230	2182202	1534014	-1.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

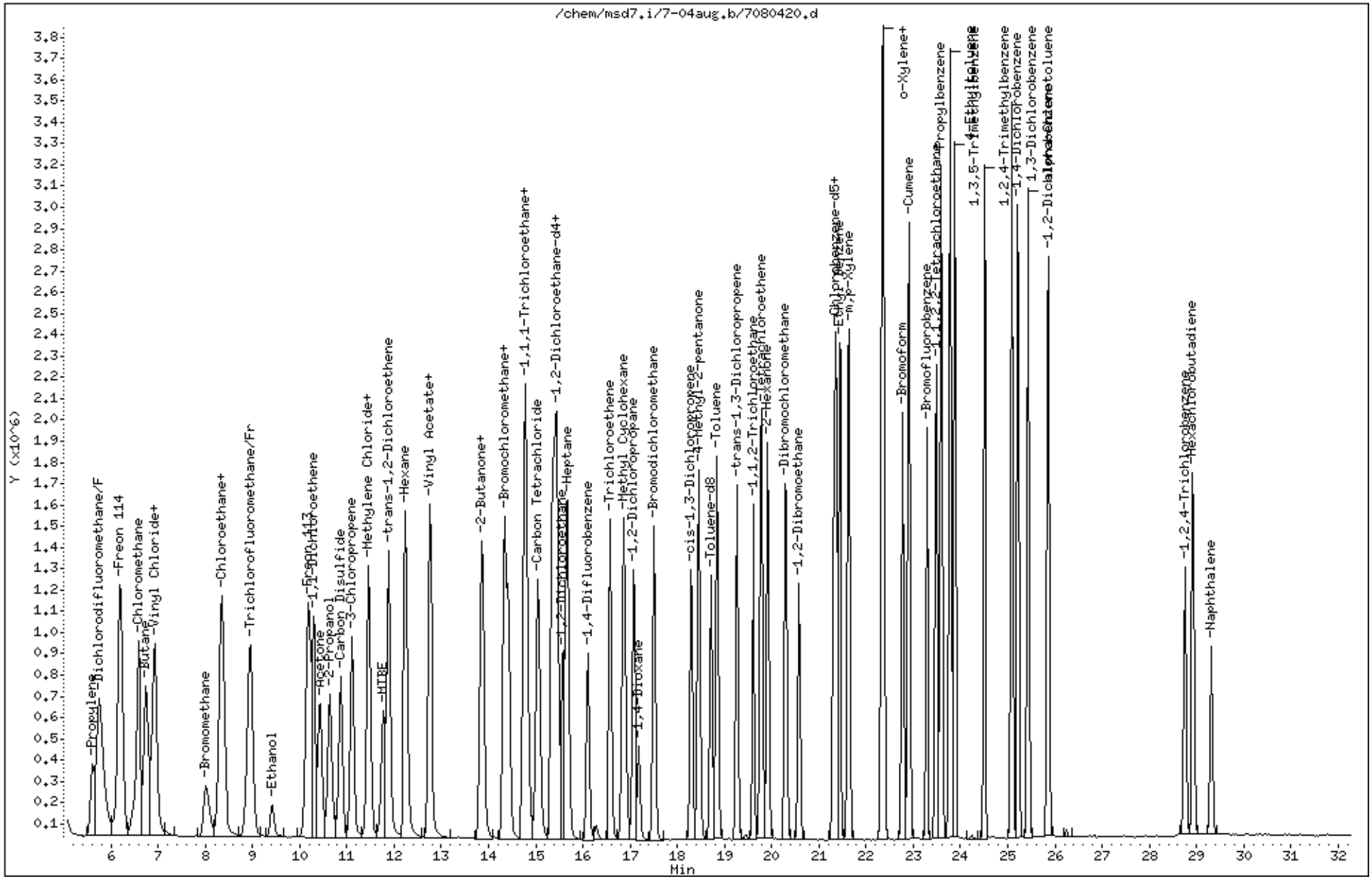
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0136

Data File: /chem/msd7.i/7-04aug.b/7080420.d
Date : 04-AUG-2008 18:40
Client ID: Level 4
Sample Info: 25mL #1612-91

Instrument: msd7.i
Operator: dfm
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-27aug.b/7082704.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 27-AUG-2008 10:42
Operator : ra Inst ID: msd7.i
Smp Info : 50mL #1541-251
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-27aug.b/t14q804c.m
Meth Date : 27-Aug-2008 15:17 rallen Quant Type: ISTD
Cal Date : 27-AUG-2008 10:42 Cal File: 7082704.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp2c.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.320	14.347 (1.000)	130	289482	25.0000		50.00- 150.00	100.00
14.320	14.347 (1.000)	128	221286			26.80- 126.80	76.44
14.320	14.347 (1.000)	49	653837			216.97- 316.97	225.86
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	931362	25.0000		50.00- 150.00	100.00
16.089	16.089 (1.000)	88	153562			0.00- 67.09	16.49
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	918470	25.0000		50.00- 150.00	100.00
21.287	21.315 (1.000)	82	470387			1.24- 101.24	51.21
204 Propylene Oxide					CAS #: 75-56-9		
9.840	9.868 (0.687)	58	68666	50.0000	40.972	50.00- 150.00	100.00
9.840	9.868 (0.687)	43	72878			77.34- 177.34	106.13
9.840	9.868 (0.687)	57	10352			0.00- 80.14	15.08
152 D-Limonene					CAS #: 5989-27-5		
24.882	24.882 (1.167)	68	1949177	50.0000	55.263	50.00- 150.00	100.00

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)		
RT	EXP RT	(REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
152 D-Limonene (continued)								
24.882	24.882	(1.167)	93	1409073			23.79- 123.79	72.29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7082704.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-27aug.b/t14q804c.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 27-AUG-2008
Calibration Time: 10:42
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	289482	173689	405275	289482	0.00
97 1,4-Difluorobenze	931362	558817	1303907	931362	0.00
126 Chlorobenzene-d5	918470	551082	1285858	918470	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.32	13.99	14.65	14.32	0.00
97 1,4-Difluorobenze	16.09	15.76	16.42	16.09	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

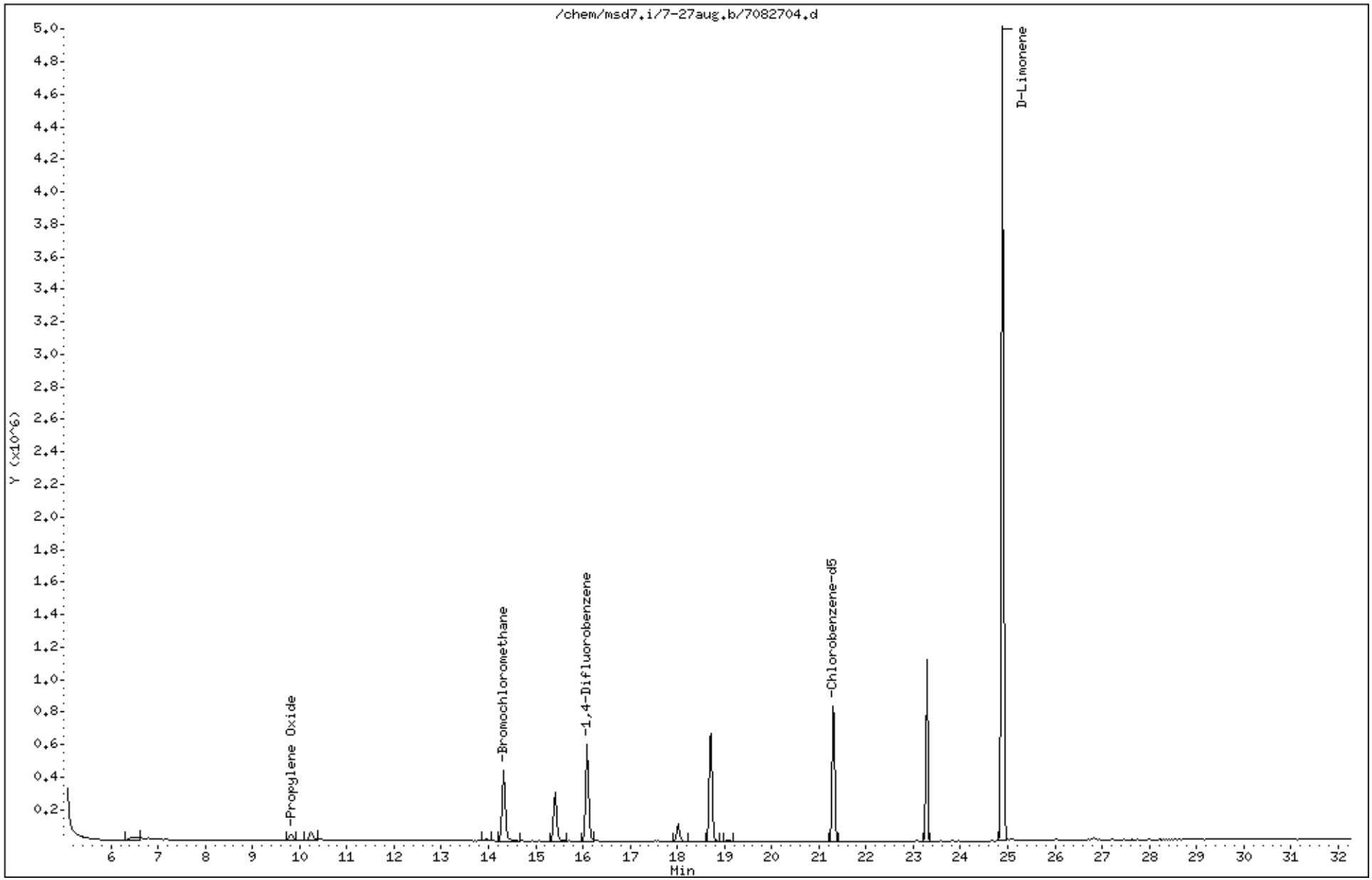
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0140

Data File: /chem/msd7.i/7-27aug.b/7082704.d
Date : 27-AUG-2008 10:42
Client ID: Level 5
Sample Info: 50mL #1541-251

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-24aug.b/7082405.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 24-AUG-2008 12:12
Operator : smd Inst ID: msd7.i
Smp Info : 50mL #1541-242
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24aug.b/t14q804b.m
Meth Date : 24-Aug-2008 13:23 sdisher Quant Type: ISTD
Cal Date : 24-AUG-2008 12:12 Cal File: 7082405.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	355343	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	276867			27.92- 127.92	77.92
14.320	14.320 (1.000)	49	885570			199.22- 299.22	249.22
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1128857	25.0000		80.00- 120.00	100.00
16.089	16.089 (1.000)	88	193689			0.00- 67.16	17.16
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1170645	25.0000		80.00- 120.00	100.00
21.287	21.287 (1.000)	82	595554			1.08- 101.08	50.87
21 Isobutane					CAS #: 75-28-5		
6.246	6.246 (0.435)	43	3708115	50.0000	52.253	80.00- 120.00	100.00
6.246	6.246 (0.435)	42	1257649			0.00- 84.88	33.92
6.246	6.246 (0.435)	58	86805			0.00- 52.64	2.34
35 1-Pentene					CAS #: 109-67-1		
8.928	8.928 (0.622)	55	2573430	50.0000	52.078	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 1-Pentene (continued)							
8.928	8.928 (0.622)	42	3206875			73.58- 173.58	124.61
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
37 Pentane					CAS #: 109-66-0		
9.038	9.038 (0.630)	43	4537489	50.0000	51.872	80.00- 120.00	100.00
9.038	9.038 (0.630)	57	640954			0.00- 64.92	14.13
9.038	9.038 (0.630)	72	263938			0.00- 56.13	5.82
39 Ethyl Ether					CAS #: 60-29-7		
9.619	9.619 (0.670)	74	749366	50.0000	53.565	80.00- 120.00	100.00
9.619	9.619 (0.670)	59	1620926			158.16- 258.16	216.31
0.000	1.000 (0.000)	31	0			0.00- 50.00	0.00
44 Acrolein					CAS #: 107-02-8		
10.117	10.117 (0.705)	55	753441	50.0000	53.079	80.00- 120.00	100.00
10.117	10.117 (0.705)	56	1018172			80.85- 180.85	135.14
48 Ethyl acrylate					CAS #: 140-88-5		
16.642	16.642 (0.781)	99	185156	50.0000	52.820	80.00- 120.00	100.00
16.614	16.614 (0.779)	45	449301			192.66- 292.66	242.66
16.614	16.614 (0.779)	55	4472619			2365.59-2465.59	2415.59
49 Iodomethane					CAS #: 74-88-4		
10.725	10.725 (0.748)	142	3999000	50.0000	56.186	80.00- 120.00	100.00
10.725	10.725 (0.748)	127	1903442			0.00- 97.35	47.60
50 Methyl Methacrylate					CAS #: 80-62-6		
17.057	17.057 (0.800)	41	2988656	50.0000	54.807	80.00- 120.00	100.00
17.057	17.057 (0.800)	69	1289283			0.00- 93.65	43.14
17.057	17.057 (0.800)	100	537305			0.00- 67.48	17.98
52 Acetonitrile					CAS #: 75-05-8		
11.195	11.195 (0.780)	40	1089904	50.0000	49.667	80.00- 120.00	100.00
11.195	11.195 (0.780)	41	2050558			130.28- 230.28	188.14
11.195	11.195 (0.780)	38	273971			0.00- 74.99	25.14
56 Cyclopentane					CAS #: 287-92-3		
11.416	11.416 (0.796)	70	924807	50.0000	52.931	80.00- 120.00	100.00
11.416	11.416 (0.796)	55	2033316			169.16- 269.16	219.86
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
62 Acrylonitrile					CAS #: 107-13-1		
11.969	11.969 (0.834)	52	1726271	50.0000	52.505	80.00- 120.00	100.00
11.969	11.969 (0.834)	53	2108661			69.80- 169.80	122.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
63 2-Pentanone					CAS #: 107-87-9		
16.836	16.836 (0.790)	43	5724510	50.0000	55.984	80.00- 120.00	100.00
16.836	16.836 (0.790)	58	375045			0.00- 57.02	6.55
16.863	16.863 (0.791)	86	596684			0.00- 60.89	10.42
66 1-Hexene					CAS #: 592-41-6		
12.108	12.108 (0.844)	55	1667391	50.0000	53.409	80.00- 120.00	100.00
12.108	12.108 (0.844)	41	2679517			115.90- 215.90	160.70
12.108	12.108 (0.844)	84	387376			0.00- 73.54	23.23
79 Methyl Acrylate					CAS #: 96-33-3		
13.932	13.932 (0.971)	55	4074891	50.0000	55.640	80.00- 120.00	100.00
13.932	13.932 (0.971)	85	434215			0.00- 60.83	10.66
13.932	13.932 (0.971)	58	348813			0.00- 58.84	8.56
100 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
23.582	23.582 (1.106)	75	500818	50.0000	50.103	80.00- 120.00	100.00
23.582	23.582 (1.106)	89	277812			4.06- 104.06	55.47
23.582	23.582 (1.106)	53	681270			88.96- 188.96	136.03
103 Alphamethylstyrene					CAS #: 98-83-9		
24.246	24.246 (1.137)	118	3038795	50.0000	51.026	80.00- 120.00	100.00
24.246	24.246 (1.137)	103	1604617			4.10- 104.10	52.80
105 Dibromomethane					CAS #: 74-95-3		
17.306	17.306 (0.812)	174	1326045	50.0000	52.084	80.00- 120.00	100.00
17.306	17.306 (0.812)	93	1595886			70.54- 170.54	120.35
17.306	17.306 (0.812)	95	1291410			47.14- 147.14	97.39
124 Nonane					CAS #: 111-84-2		
21.425	21.425 (1.005)	43	5045805	50.0000	49.774	80.00- 120.00	100.00
21.425	21.425 (1.005)	57	4150754			32.92- 132.92	82.26
21.425	21.425 (1.005)	85	1034220			0.00- 70.84	20.50
151 bis(2-chloroethyl)ether					CAS #: 111-44-4		
24.854	24.854 (1.166)	93	3170966	50.0000	47.417	80.00- 120.00	100.00
24.854	24.854 (1.166)	95	1005773			0.00- 81.96	31.72

Report Date: 24-Aug-2008 13:23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7082405.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd7.i/7-24aug.b/t14q804b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 24-AUG-2008
Calibration Time: 12:12
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	355343	213206	497480	355343	0.00
97 1,4-Difluorobenze	1128857	677314	1580400	1128857	0.00
126 Chlorobenzene-d5	1170645	702387	1638903	1170645	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.09	15.76	16.42	16.09	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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.

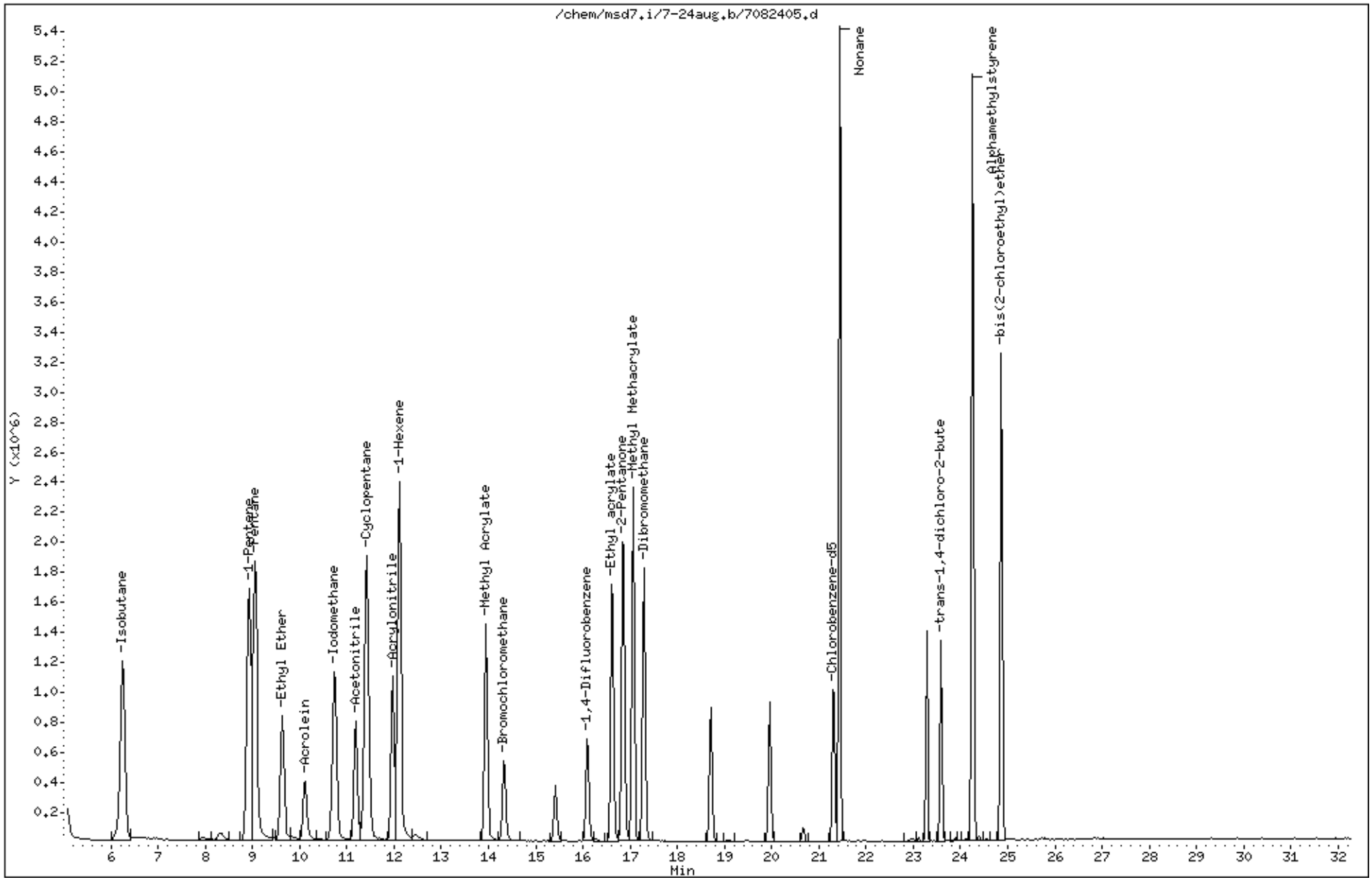
0145

Data File: /chem/msd7.i/7-24aug.b/7082405.d
Date : 24-AUG-2008 12:12
Client ID: Level 5
Sample Info: 50mL #1541-242

Column phase: RTx-624

Instrument: msd7.i

Operator: smd
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-05aug.b/7080505.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 05-AUG-2008 15:45
Operator : ra Inst ID: msd7.i
Smp Info : 50mL #1612-99
Misc Info : 50/300 ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-05aug.b/t14q804a.m
Meth Date : 05-Aug-2008 17:38 sruth Quant Type: ISTD
Cal Date : 05-AUG-2008 15:45 Cal File: 7080505.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp37a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.333	14.333 (1.000)	130	433524	25.0000		80.00- 120.00	100.00
14.333	14.333 (1.000)	128	343295			29.19- 129.19	79.19
14.333	14.333 (1.000)	49	1063263			195.26- 295.26	245.26
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.103	16.103 (1.000)	114	1378748	25.0000		80.00- 120.00	100.00
16.103	16.103 (1.000)	88	235471			0.00- 67.08	17.08
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.301	21.301 (1.000)	117	1402863	25.0000		80.00- 120.00	100.00
21.301	21.301 (1.000)	82	736678			1.44- 101.44	52.51
96 2-Heptanone					CAS #: 110-43-0		
22.462	22.462 (1.567)	58	3326187	50.0000	63.048	80.00- 120.00	100.00
22.462	22.462 (1.567)	43	5950065			134.40- 234.40	178.89
146 Diisobutyl Ketone					CAS #: 108-83-8		
24.010	24.010 (1.127)	57	5739413	50.0000	52.171	80.00- 120.00	100.00
24.038	24.038 (1.129)	85	3224555			6.18- 106.18	56.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
146 Diisobutyl Ketone (continued)							
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
99 Isobutanol					CAS #: 78-83-1		
15.080	15.080 (1.052)	59	57268	50.0000	46.643	80.00- 120.00	100.00
15.080	15.080 (1.052)	41	1285494			1738.39-1838.39	2244.70
15.080	15.080 (1.052)	43	1661858			2172.15-2272.15	2901.90
98 1-Butanol					CAS #: 71-36-3		
16.269	16.269 (1.010)	56	1412513	50.0000	58.294	80.00- 120.00	100.00
16.269	16.269 (1.010)	41	1119312			27.33- 127.33	79.24
16.269	16.269 (1.010)	43	854616			9.34- 109.34	60.50
71 1-Propanol					CAS #: 71-23-8		
12.785	12.785 (0.892)	42	483542	50.0000	55.017	80.00- 120.00	100.00
12.785	12.785 (0.892)	59	523025			101.28- 201.28	108.17
12.646	12.646 (0.882)	41	1676044			307.14- 407.14	346.62
73 t-Butylethyl Ether					CAS #: 637-92-3		
13.310	13.310 (0.929)	59	4719161	50.0000	53.189	80.00- 120.00	100.00
13.338	13.338 (0.931)	87	1253774			0.00- 76.06	26.57
13.310	13.310 (0.929)	41	924785			0.00- 69.79	19.60
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
15.494	15.494 (1.081)	73	2532942	50.0000	50.362	80.00- 120.00	100.00
15.494	15.494 (1.081)	87	624357			0.00- 75.36	24.65
15.494	15.494 (1.081)	55	1028512			0.00- 93.69	40.61
68 Isopropyl ether					CAS #: 108-20-3		
12.646	12.646 (0.882)	45	8727833	50.0000	54.495	80.00- 120.00	100.00
12.646	12.646 (0.882)	87	1238637			0.00- 64.22	14.19
12.646	12.646 (0.882)	59	783057			0.00- 60.75	8.97
119 Butyl Acetate					CAS #: 123-86-4		
20.029	20.029 (1.244)	56	2146422	50.0000	59.768	80.00- 120.00	100.00
20.029	20.029 (1.244)	73	498489			0.00- 73.22	23.22
20.029	20.029 (1.244)	43	5807195			220.55- 320.55	270.55
77 Ethyl Acetate					CAS #: 141-78-6		
13.808	13.808 (0.963)	70	328857	50.0000	54.384	80.00- 120.00	100.00
13.808	13.808 (0.963)	45	766166			169.70- 269.70	232.98
13.808	13.808 (0.963)	61	1131690			269.98- 369.98	344.13
135 Cyclohexanone					CAS #: 108-94-1		
23.236	23.236 (1.091)	55	2836788	50.0000	56.946	80.00- 120.00	100.00
23.236	23.236 (1.091)	98	698662			0.00- 74.73	24.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
135 Cyclohexanone (continued)							
23.236	23.236 (1.091)	42	2080682			21.19- 121.19	73.35
5 Freon 143a					CAS #: 420-46-2		
5.279	5.279 (0.368)	65	746449	50.0000	50.299	80.00- 120.00	100.00
5.251	5.251 (0.366)	69	5349932			439.02- 539.02	716.72
5.279	5.279 (0.368)	64	189246			0.00- 75.72	25.35
6 Freon142b					CAS #: 75-68-3		
6.293	6.293 (0.439)	65	3692852	50.0000	50.255	80.00- 120.00	100.00
6.293	6.293 (0.439)	45	1128009			0.00- 81.70	30.55
9 Freon 13					CAS #: 75-72-9		
5.223	5.223 (0.364)	85	870074	50.0000	83.194	80.00- 120.00	100.00
5.223	5.223 (0.364)	87	273596			0.00- 92.69	31.45
5.251	5.251 (0.366)	69	5349932			882.43- 982.43	614.88
13 Freon 134a					CAS #: 811-97-2		
5.420	5.420 (0.378)	83	1455769	50.0000	50.879	80.00- 120.00	100.00
5.251	5.251 (0.366)	69	5349932			247.14- 347.14	367.50
5.420	5.420 (0.378)	63	250727			0.00- 68.28	17.22
15 Freon 152a					CAS #: 75-37-6		
5.645	5.645 (0.394)	65	1017752	50.0000	49.695	80.00- 120.00	100.00
5.645	5.645 (0.394)	51	1923580			454.63- 554.63	189.00
5.645	5.645 (0.394)	47	770199			27.13- 127.13	75.68
17 Freon 22					CAS #: 75-45-6		
5.786	5.786 (0.404)	51	5194827	50.0000	40.470	80.00- 120.00	100.00
5.786	5.786 (0.404)	67	453980			0.00- 57.89	8.74
5.786	5.786 (0.404)	85	36473			0.00- 50.73	0.70
26 Methanol					CAS #: 67-56-1		
7.560	7.560 (0.527)	31	3362831	300.000	247.08	80.00- 120.00	100.00
7.560	7.560 (0.527)	32	2231874			16.37- 116.37	66.37
41 Freon123					CAS #: 306-83-2		
9.909	9.909 (0.691)	83	2379420	50.0000	50.700	80.00- 120.00	100.00
9.937	9.937 (0.693)	133	526466			0.00- 73.53	22.13
9.909	9.909 (0.691)	85	1751203			21.75- 121.75	73.60
40 Freon123a					CAS #: 354-23-4		
9.771	9.771 (0.682)	117	1466113	50.0000	51.601	80.00- 120.00	100.00
9.771	9.771 (0.682)	67	2043153			94.79- 194.79	139.36
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.912	8.912 (0.622)	67	3316498	50.0000	50.398	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
34 Dichlorofluoromethane/Fr21 (continued)							
8.912	8.912 (0.622)	69	957957			0.00- 78.72	28.88
8.912	8.912 (0.622)	35	277168			0.00- 58.83	8.36
136 Bromobenzene					CAS #: 108-86-1		
23.568	23.568 (1.106)	156	2072213	50.0000	49.806	80.00- 120.00	100.00
23.568	23.568 (1.106)	158	1964017			44.78- 144.78	94.78
23.568	23.568 (1.106)	77	4390680			162.84- 262.84	211.88
158 Butylbenzene					CAS #: 104-51-8		
25.642	25.642 (1.204)	134	1586778	50.0000	45.995	80.00- 120.00	100.00
25.642	25.642 (1.204)	91	6524218			361.16- 461.16	411.16
25.642	25.642 (1.204)	92	3589005			168.89- 268.89	226.18
149 sec-Butylbenzene					CAS #: 135-98-8		
24.757	24.757 (1.162)	105	7779734	50.0000	48.958	80.00- 120.00	100.00
24.757	24.757 (1.162)	134	1464325			0.00- 68.82	18.82
24.757	24.757 (1.162)	91	1254965			0.00- 66.29	16.13
148 tert-Butylbenzene					CAS #: 98-06-6		
24.397	24.397 (1.145)	119	5076961	50.0000	48.548	80.00- 120.00	100.00
24.397	24.397 (1.145)	134	1090303			0.00- 71.48	21.48
24.397	24.397 (1.145)	91	3506245			19.71- 119.71	69.06
141 2-Chlorotoluene					CAS #: 95-49-8		
23.844	23.844 (1.119)	126	1741317	50.0000	50.939	80.00- 120.00	100.00
23.844	23.844 (1.119)	91	5085213			242.03- 342.03	292.03
23.844	23.844 (1.119)	65	641567			0.00- 88.32	36.84
143 4-Chlorotoluene					CAS #: 106-43-4		
24.010	24.010 (1.127)	126	1718391	50.0000	49.430	80.00- 120.00	100.00
24.010	24.010 (1.127)	91	5082977			245.80- 345.80	295.80
24.010	24.010 (1.127)	63	941235			4.62- 104.62	54.77
162 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
27.245	27.245 (1.279)	157	1864868	50.0000	45.072	80.00- 120.00	100.00
27.218	27.218 (1.278)	75	2162708			65.97- 165.97	115.97
27.245	27.245 (1.279)	155	1487193			30.44- 130.44	79.75
118 1,3-Dichloropropane					CAS #: 142-28-9		
19.946	19.946 (1.239)	76	2106578	50.0000	54.482	80.00- 120.00	100.00
19.918	19.918 (1.237)	41	2498321			68.60- 168.60	118.60
19.946	19.946 (1.239)	78	649534			0.00- 81.47	30.83
78 2,2-Dichloropropane					CAS #: 594-20-7		
13.835	13.835 (0.965)	77	2575949	50.0000	61.476	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 2,2-Dichloropropane (continued)							
13.835	13.835 (0.965)	79	861935			0.00- 83.46	33.46
13.835	13.835 (0.965)	97	440753			0.00- 66.58	17.11
153 p-Cymene					CAS #: 99-87-6		
24.978	24.978 (1.173)	119	6981782	50.0000	47.687	80.00- 120.00	100.00
24.978	24.978 (1.173)	134	1672526			0.00- 73.80	23.96
24.978	24.978 (1.173)	91	1760457			0.00- 75.28	25.22
125 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
21.467	21.467 (1.008)	131	2108765	50.0000	51.840	80.00- 120.00	100.00
21.467	21.467 (1.008)	117	1440191			19.52- 119.52	68.30
21.467	21.467 (1.008)	95	786825			0.00- 89.36	37.31
138 1,2,3-Trichloropropane					CAS #: 96-18-4		
23.623	23.623 (1.109)	110	1111471	50.0000	49.520	80.00- 120.00	100.00
23.623	23.623 (1.109)	75	3260192			243.32- 343.32	293.32
23.623	23.623 (1.109)	61	1136667			51.91- 151.91	102.27
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
25.227	25.227 (1.184)	120	2464049	50.0000	48.284	80.00- 120.00	100.00
25.227	25.227 (1.184)	105	5505089			173.42- 273.42	223.42
25.227	25.227 (1.184)	77	706992			0.00- 79.93	28.69
201 Pentachloroethane					CAS #: 76-01-7		
24.563	24.563 (1.153)	167	1607738	50.0000	50.644	80.00- 120.00	100.00
24.536	24.536 (1.152)	117	1988769			77.19- 177.19	123.70
24.563	24.563 (1.153)	169	750082			0.00- 97.68	46.65
88 1,1-Dichloropropene					CAS #: 563-58-6		
15.052	15.052 (0.935)	110	675232	50.0000	54.173	80.00- 120.00	100.00
15.052	15.052 (0.935)	75	1971728			238.21- 338.21	292.01
55 Cyclopentene					CAS #: 142-29-0		
11.209	11.209 (0.782)	67	3386797	50.0000	53.951	80.00- 120.00	100.00
11.209	11.209 (0.782)	68	1291416			0.00- 88.37	38.13
11.209	11.209 (0.782)	53	1136258			0.00- 83.18	33.55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080505.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-05aug.b/t14q804a.m
Misc Info: 50/300 ppbv (200 ppbv)

Calibration Date: 05-AUG-2008
Calibration Time: 15:45
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	433524	260114	606934	433524	0.00
97 1,4-Difluorobenze	1378748	827249	1930247	1378748	0.00
126 Chlorobenzene-d5	1402863	841718	1964008	1402863	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.33	14.00	14.66	14.33	0.00
97 1,4-Difluorobenze	16.10	15.77	16.43	16.10	0.00
126 Chlorobenzene-d5	21.30	20.97	21.63	21.30	0.00

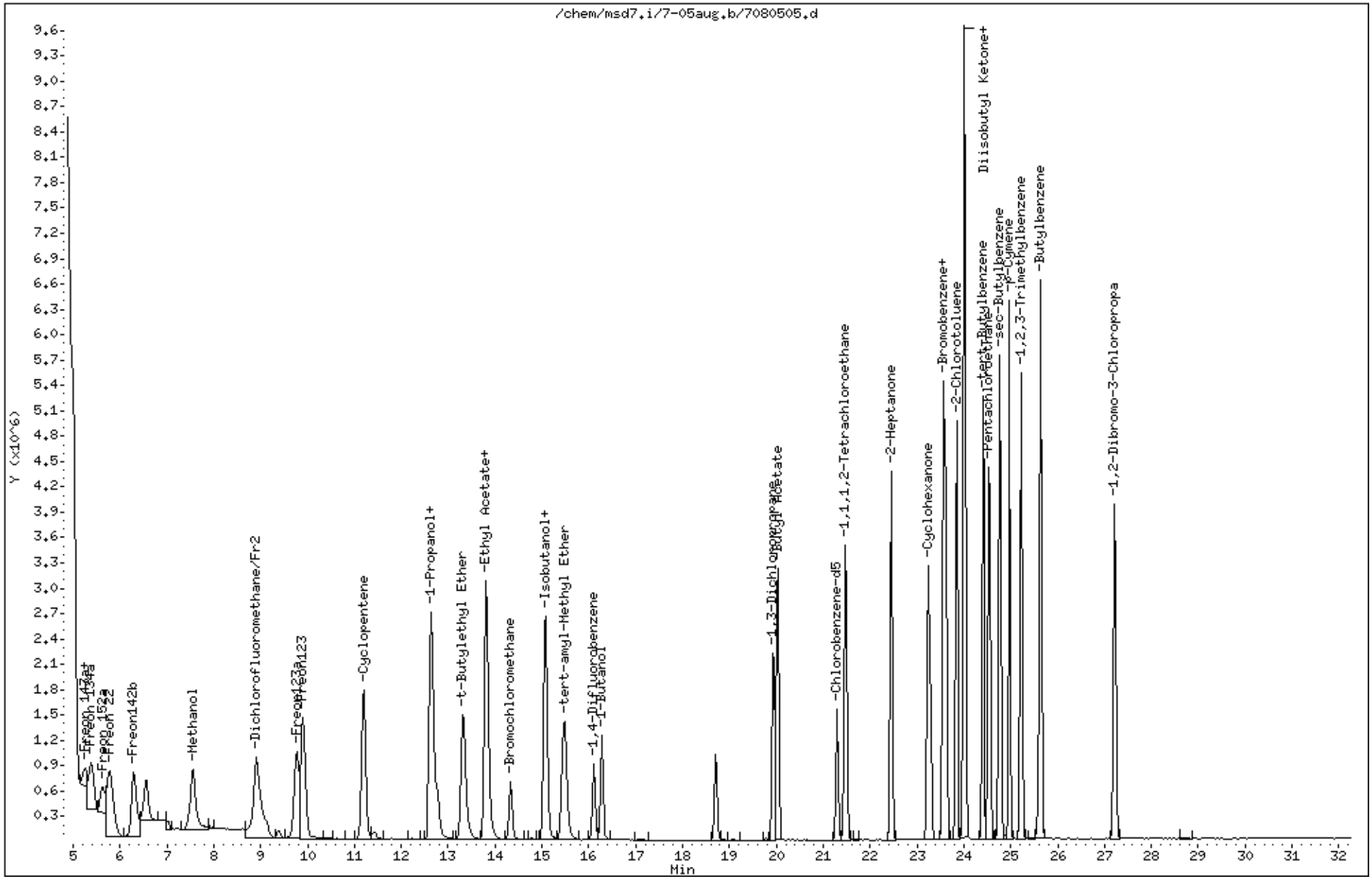
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0152

Data File: /chem/msd7.i/7-05aug.b/7080505.d
Date : 05-AUG-2008 15:45
Client ID: Level 5
Sample Info: 50mL #1612-99

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080421.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 04-AUG-2008 19:20
Operator : dfm Inst ID: msd7.i
Smp Info : 50mL #1612-91
Misc Info : 50ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:06 sscott Quant Type: ISTD
Cal Date : 04-AUG-2008 19:20 Cal File: 7080421.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	465852	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	363564			28.04- 128.04	78.04
14.319	14.319 (1.000)	49	1625576			298.95- 398.95	348.95
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1452055	25.0000		80.00- 120.00	100.00
16.089	16.089 (1.000)	88	259268			0.00- 67.86	17.86
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1558716	25.0000		80.00- 120.00	100.00
21.315	21.315 (1.000)	82	793396			1.03- 101.03	50.90
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	876759	25.0000	24.916	80.00- 120.00	100.00
15.425	15.425 (1.075)	67	438008			0.00- 97.37	49.96
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1437194	25.0000	25.856	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	205284			0.00- 63.85	14.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	1099150			26.51- 126.51	76.48
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	797501	25.0000	24.864	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	1119249			90.34- 190.34	140.34
23.278	23.278 (1.092)	176	761270			45.46- 145.46	95.46
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	2029726	50.0000	51.099	80.00- 120.00	100.00
5.582	5.582 (0.389)	42	1395248			16.57- 116.57	68.74
5.582	5.582 (0.389)	39	1653234			28.60- 128.60	81.45
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.720	5.720 (0.399)	85	5921850	50.0000	51.422	80.00- 120.00	100.00
5.720	5.720 (0.399)	87	1873576			0.00- 81.85	31.64
16 Freon 114					CAS #: 76-14-2		
6.190	6.190 (0.431)	135	3461930	50.0000	56.274	80.00- 120.00	100.00
6.190	6.190 (0.431)	137	1072796			0.00- 80.99	30.99
18 Chloromethane					CAS #: 74-87-3		
6.522	6.522 (0.455)	50	2576522	50.0000	52.598	80.00- 120.00	100.00
6.522	6.522 (0.455)	52	794479			0.00- 81.05	30.84
20 Vinyl Chloride					CAS #: 75-01-4		
6.826	6.826 (0.476)	62	2521926	50.0000	51.881	80.00- 120.00	100.00
6.826	6.826 (0.476)	64	723649			0.00- 84.96	28.69
22 1,3-Butadiene					CAS #: 106-99-0		
6.909	6.909 (0.482)	54	2280936	50.0000	49.830	80.00- 120.00	100.00
6.909	6.909 (0.482)	39	2369163			46.88- 146.88	103.87
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.557)	94	1547366	50.0000	51.548	80.00- 120.00	100.00
7.988	7.988 (0.557)	96	1411570			41.22- 141.22	91.22
27 Chloroethane					CAS #: 75-00-3		
8.319	8.319 (0.580)	64	1230281	50.0000	54.428	80.00- 120.00	100.00
8.319	8.319 (0.580)	49	480004			0.00- 94.43	39.02
8.319	8.319 (0.580)	66	354998			0.00- 79.28	28.86
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	6197799	50.0000	54.162	80.00- 120.00	100.00
8.928	8.928 (0.622)	103	3924602			13.32- 113.32	63.32

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.398	9.398 (0.655)	45	1052323	50.0000	55.463	80.00- 120.00	100.00
9.398	9.398 (0.655)	43	224872			0.00- 73.90	21.37
9.398	9.398 (0.655)	46	394559			0.00- 88.16	37.49
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	2496055	50.0000	54.319	80.00- 120.00	100.00
10.172	10.172 (0.709)	153	1585782			13.53- 113.53	63.53
10.172	10.172 (0.709)	101	3696668			98.10- 198.10	148.10
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	4375385	50.0000	54.754	80.00- 120.00	100.00
10.283	10.283 (0.717)	96	1589354			0.00- 86.32	36.32
10.283	10.283 (0.717)	98	1011639			0.00- 73.12	23.12
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	1227579	50.0000	54.422	80.00- 120.00	100.00
10.421	10.421 (0.726)	43	4704286			340.42- 440.42	383.22
46 2-Propanol					CAS #: 67-63-0		
10.614	10.614 (0.740)	45	5329623	50.0000	55.682	80.00- 120.00	100.00
10.614	10.614 (0.740)	43	1285593			0.00- 76.39	24.12
10.614	10.614 (0.740)	59	171349			0.00- 53.62	3.22
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.836 (0.755)	76	5265899	50.0000	53.662	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	858585	50.0000	53.736	80.00- 120.00	100.00
11.112	11.112 (0.775)	41	3805694			377.54- 477.54	443.25
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.444 (0.798)	49	3641034	50.0000	52.083	80.00- 120.00	100.00
11.444	11.444 (0.798)	84	1390875			0.00- 88.20	38.20
11.444	11.444 (0.798)	51	1115521			0.00- 80.54	30.64
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	3259687	50.0000	56.414	80.00- 120.00	100.00
11.776	11.776 (0.821)	57	1063707			0.00- 82.63	32.63
11.748	11.748 (0.819)	41	1100251			0.00- 86.33	33.75
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	1843076	50.0000	55.019	80.00- 120.00	100.00
11.859	11.859 (0.827)	61	4228309			179.42- 279.42	229.42
11.886	11.886 (0.828)	98	1165873			13.50- 113.50	63.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	4342066	50.0000	55.691	80.00- 120.00	100.00
12.218	12.218 (0.852)	43	2917091			20.34- 120.34	67.18
12.246	12.246 (0.854)	86	437096			0.00- 61.25	10.07
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.716 (0.886)	86	420991	50.0000	54.932	80.00- 120.00	100.00
12.716	12.716 (0.886)	43	8128203			1872.40-1972.40	1930.73
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	4668689	50.0000	55.275	80.00- 120.00	100.00
12.771	12.771 (0.890)	65	1361526			0.00- 79.16	29.16
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	782029	50.0000	53.195	80.00- 120.00	100.00
13.822	13.822 (0.963)	43	5539080			658.30- 758.30	708.30
13.822	13.822 (0.963)	57	394108			0.00- 97.16	50.40
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.849	13.849 (0.965)	61	3422246	50.0000	54.012	80.00- 120.00	100.00
13.877	13.877 (0.967)	96	1621561			0.00- 97.38	47.38
13.877	13.877 (0.967)	98	1024878			0.00- 79.95	29.95
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.319 (0.998)	42	2895635	50.0000	55.785	80.00- 120.00	100.00
14.319	14.319 (0.998)	71	699502			0.00- 74.16	24.16
14.319	14.319 (0.998)	72	768324			0.00- 78.71	26.53
82 Chloroform					CAS #: 67-66-3		
14.402	14.402 (1.004)	83	3407537	50.0000	52.621	80.00- 120.00	100.00
14.402	14.402 (1.004)	85	2449005			21.87- 121.87	71.87
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	3684349	50.0000	55.724	80.00- 120.00	100.00
14.762	14.762 (1.029)	99	2345687			13.67- 113.67	63.67
85 Cyclohexane					CAS #: 110-82-7		
14.789	14.789 (1.031)	84	1877450	50.0000	54.051	80.00- 120.00	100.00
14.789	14.789 (1.031)	56	3653311			144.59- 244.59	194.59
14.789	14.789 (1.031)	41	2267820			70.79- 170.79	120.79
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	4112761	50.0000	54.474	80.00- 120.00	100.00
15.038	15.038 (1.048)	117	4334879			55.40- 155.40	105.40
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	4251933	50.0000	53.781	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
15.453	15.453 (0.959)	77	936467			0.00- 71.75	22.02
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	10306124	50.0000	55.467	80.00- 120.00	100.00
15.370	15.370 (1.071)	56	3363867			0.00- 82.54	32.64
15.370	15.370 (1.071)	41	3031668			0.00- 80.37	29.42
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	3226291	50.0000	55.216	80.00- 120.00	100.00
15.564	15.564 (0.966)	64	979075			0.00- 82.49	30.35
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	1428007	50.0000	55.857	80.00- 120.00	100.00
15.647	15.647 (0.971)	43	4064296			238.48- 338.48	284.61
15.647	15.647 (0.971)	57	2110818			102.27- 202.27	147.82
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	1919311	50.0000	56.669	80.00- 120.00	100.00
16.587	16.587 (1.029)	130	1914330			49.74- 149.74	99.74
16.587	16.587 (1.029)	97	1205245			12.80- 112.80	62.80
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	2105812	50.0000	55.766	80.00- 120.00	100.00
17.057	17.057 (1.058)	62	1502066			21.33- 121.33	71.33
17.057	17.057 (1.058)	41	1710522			31.23- 131.23	81.23
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	1074058	50.0000	55.594	80.00- 120.00	100.00
17.195	17.195 (1.067)	58	1045889			47.38- 147.38	97.38
17.195	17.195 (1.067)	57	387635			0.00- 86.44	36.09
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	3459882	50.0000	56.418	80.00- 120.00	100.00
17.499	17.499 (1.086)	85	2422169			20.01- 120.01	70.01
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	2544394	50.0000	58.486	80.00- 120.00	100.00
18.273	18.273 (1.134)	77	800011			0.00- 81.44	31.44
18.273	18.273 (1.134)	39	2338375			41.90- 141.90	91.90
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	1996734	50.0000	59.259	80.00- 120.00	100.00
18.467	18.467 (1.146)	43	5782384			244.73- 344.73	289.59
18.467	18.467 (1.146)	85	605198			0.00- 81.51	30.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	4762927	50.0000	54.345	80.00- 120.00	100.00
18.826	18.826 (1.168)	92	2984781			12.67- 112.67	62.67
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	2864179	50.0000	56.772	80.00- 120.00	100.00
19.269	19.269 (0.904)	77	886670			0.00- 80.96	30.96
19.269	19.269 (0.904)	39	2341104			31.74- 131.74	81.74
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.600	19.600 (0.920)	97	1745834	50.0000	54.334	80.00- 120.00	100.00
19.600	19.600 (0.920)	99	1079194			11.82- 111.82	61.82
19.600	19.600 (0.920)	83	1467274			34.04- 134.04	84.04
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	2254708	50.0000	53.541	80.00- 120.00	100.00
19.766	19.766 (0.927)	129	1905588			34.52- 134.52	84.52
19.766	19.766 (0.927)	131	1896115			34.10- 134.10	84.10
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	2760237	50.0000	56.595	80.00- 120.00	100.00
19.905	19.905 (0.934)	43	5847002			161.83- 261.83	211.83
19.905	19.905 (0.934)	100	364765			0.00- 63.21	13.21
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	3797834	50.0000	56.451	80.00- 120.00	100.00
20.292	20.292 (0.952)	127	2991102			29.59- 129.59	78.76
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	3278208	50.0000	53.912	80.00- 120.00	100.00
20.568	20.568 (0.965)	109	3025574			42.29- 142.29	92.29
127 Chlorobenzene					CAS #: 108-90-7		
21.342	21.342 (1.001)	112	4107857	50.0000	51.564	80.00- 120.00	100.00
21.342	21.342 (1.001)	114	1313527			0.00- 81.98	31.98
21.342	21.342 (1.001)	77	2588255			13.01- 113.01	63.01
128 Ethyl Benzene					CAS #: 100-41-4		
21.425	21.425 (1.005)	106	2321951	50.0000	53.445	80.00- 120.00	100.00
21.425	21.425 (1.005)	91	7134303			261.34- 361.34	307.25
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	2930694	50.0000	52.722	80.00- 120.00	100.00
21.619	21.619 (1.014)	91	5766455			147.02- 247.02	196.76
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	2720927	50.0000	52.913	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	5702694			159.59- 259.59	209.59
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	4529765	50.0000	57.846	80.00- 120.00	100.00
22.365	22.365 (1.049)	78	2341082			1.68- 101.68	51.68
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	3219369	50.0000	55.517	80.00- 120.00	100.00
22.780	22.780 (1.069)	171	1669314			1.85- 101.85	51.85
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	7840274	50.0000	52.129	80.00- 120.00	100.00
22.918	22.918 (1.075)	120	2143669			0.00- 77.95	27.34
22.891	22.891 (1.074)	51	1252360			0.00- 67.08	15.97
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	3998676	50.0000	50.183	80.00- 120.00	100.00
23.499	23.499 (1.102)	85	2844630			21.14- 121.14	71.14
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	9467420	50.0000	50.535	80.00- 120.00	100.00
23.582	23.582 (1.106)	120	2305691			0.00- 73.91	24.35
23.582	23.582 (1.106)	105	382837			0.00- 54.14	4.04
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	9026124	50.0000	50.282	80.00- 120.00	100.00
23.776	23.776 (1.115)	120	2939207			0.00- 82.56	32.56
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	6877266	50.0000	46.824	80.00- 120.00	100.00
23.858	23.858 (1.119)	120	3444103			1.24- 101.24	50.08
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	6798662	50.0000	46.953	80.00- 120.00	100.00
24.494	24.494 (1.149)	120	3240587			0.00- 97.02	47.67
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	4442937	50.0000	47.046	80.00- 120.00	100.00
25.075	25.075 (1.176)	148	2828948			12.07- 112.07	63.67
25.075	25.075 (1.176)	111	1947264			0.00- 94.74	43.83
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	4661535	50.0000	47.041	80.00- 120.00	100.00
25.241	25.241 (1.184)	148	2928052			13.30- 113.30	62.81
25.213	25.213 (1.183)	111	1980938			0.00- 92.03	42.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.434	25.434 (1.193)	91	7384296	50.0000	50.884	80.00- 120.00	100.00
25.434	25.434 (1.193)	126	1488773			0.00- 69.83	20.16
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	4417484	50.0000	46.309	80.00- 120.00	100.00
25.877	25.877 (1.214)	148	2765625			12.61- 112.61	62.61
25.877	25.877 (1.214)	111	1965085			0.00- 94.48	44.48
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.752	28.752 (1.349)	180	2268683	50.0000	53.213	80.00- 120.00	100.00
28.752	28.752 (1.349)	182	2112237			43.10- 143.10	93.10
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	1871940	50.0000	52.606	80.00- 120.00	100.00
28.946	28.946 (1.358)	223	1162116			13.71- 113.71	62.08
167 Naphthalene					CAS #: 91-20-3		
29.305	29.305 (1.375)	128	4938011	50.0000	53.925	80.00- 120.00	100.00
29.305	29.305 (1.375)	127	609569			0.00- 62.37	12.34
29 Isopentane					CAS #: 78-78-4		
8.319	8.319 (0.580)	43	3490171	50.0000	53.080	80.00- 120.00	100.00
8.319	8.319 (0.580)	57	2328313			17.61- 117.61	66.71
19 Butane					CAS #: 106-97-8		
6.743	6.743 (0.470)	58	487409	50.0000	50.052	80.00- 120.00	100.00
6.743	6.743 (0.470)	43	4221513			787.53- 887.53	866.11
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	2354469	50.0000	55.229	80.00- 120.00	100.00
16.863	16.863 (1.175)	98	1060444			0.00- 97.34	45.04
16.863	16.863 (1.175)	55	3338362			95.79- 195.79	141.79
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	2664561	50.0000	52.269	80.00- 120.00	100.00
11.444	11.444 (0.798)	41	636768			0.00- 74.69	23.90
11.444	11.444 (0.798)	57	274041			0.00- 61.62	10.28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080421.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 50ppbv (200 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	465852	0.00
97 1,4-Difluorobenze	1452055	871233	2032877	1452055	0.00
126 Chlorobenzene-d5	1558716	935230	2182202	1558716	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

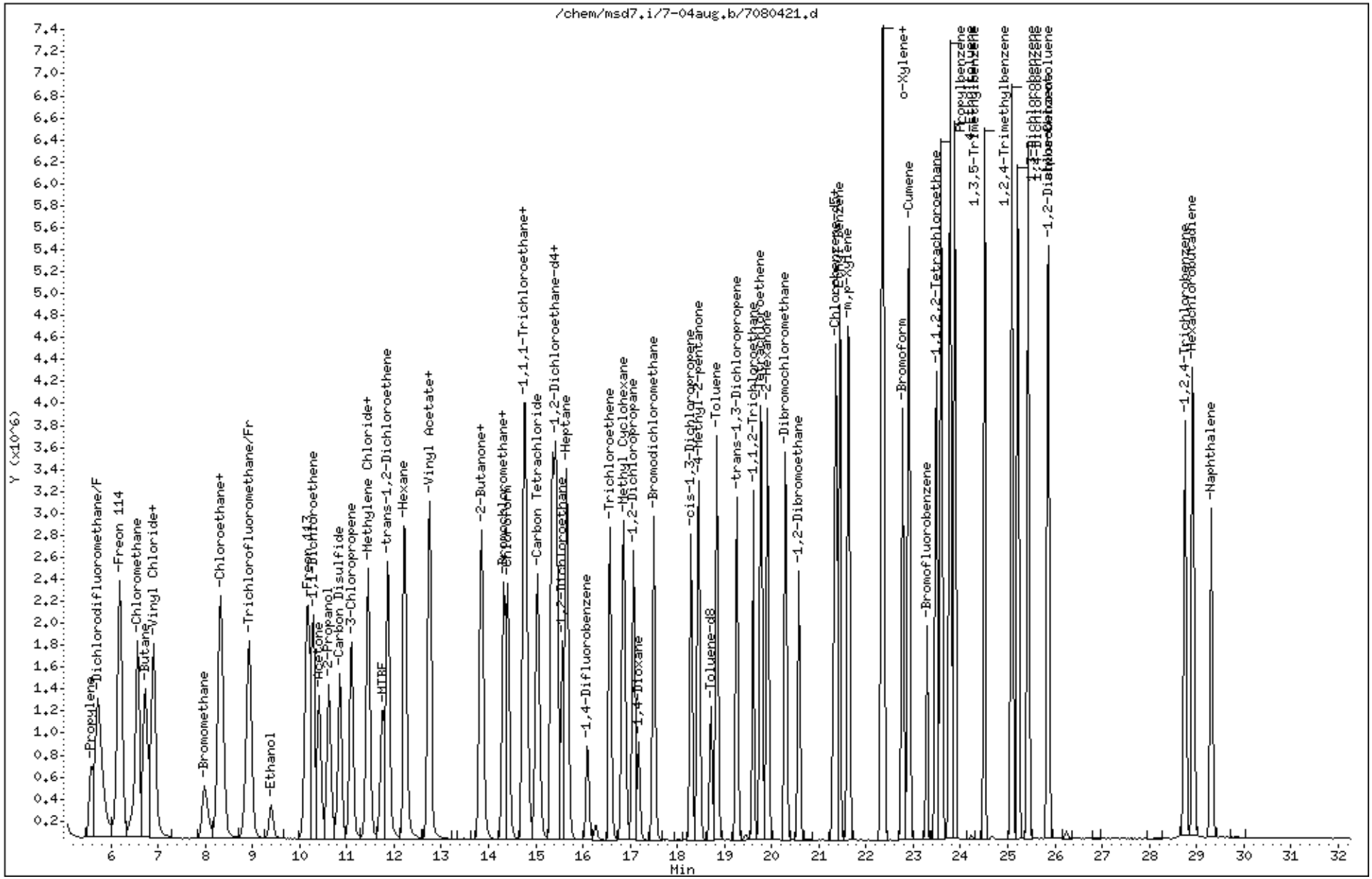
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0162

Data File: /chem/msd7.i/7-04aug.b/7080421.d
Date : 04-AUG-2008 19:20
Client ID: Level 5
Sample Info: 50mL #1612-91

Instrument: msd7.i
Operator: dfm
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080422.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 04-AUG-2008 20:01
Operator : dfm Inst ID: msd7.i
Smp Info : 100mL #1612-91
Misc Info : 100ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:06 sscott Quant Type: ISTD
Cal Date : 04-AUG-2008 20:01 Cal File: 7080422.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	465153	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	356812			27.26- 127.26	76.71
14.347	14.347 (1.000)	49	2071583			253.14- 353.14	445.36
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1470786	25.0000		50.00- 150.00	100.00
16.117	16.117 (1.000)	88	256928			0.00- 67.42	17.47
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1565448	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	792771			1.03- 101.03	50.64
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	865981	25.0000	24.646	50.00- 150.00	100.00
15.425	15.425 (1.075)	67	489534			0.00- 97.37	56.53
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.163)	98	1430050	25.0000	25.400	50.00- 150.00	100.00
18.716	18.716 (1.163)	70	197486			0.00- 63.85	13.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.163)	100	1113607			26.51- 126.51	77.87
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	821379	25.0000	25.499	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1127820			89.41- 189.41	137.31
23.278	23.278 (1.092)	176	782960			45.98- 145.98	95.32
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	3721961	100.000	93.842	50.00- 150.00	100.00
5.610	5.610 (0.391)	42	2548883			16.57- 116.57	68.48
5.610	5.610 (0.391)	39	2983936			28.60- 128.60	80.17
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	11080657	100.000	96.362	50.00- 150.00	100.00
5.748	5.748 (0.401)	87	3467019			0.00- 81.85	31.29
16 Freon 114					CAS #: 76-14-2		
6.218	6.218 (0.433)	135	6236685	100.000	101.53	50.00- 150.00	100.00
6.218	6.218 (0.433)	137	1988797			0.00- 84.02	31.89
18 Chloromethane					CAS #: 74-87-3		
6.550	6.550 (0.457)	50	4648282	100.000	95.035	50.00- 150.00	100.00
6.550	6.550 (0.457)	52	1494819			0.00- 81.05	32.16
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	4604282	100.000	94.862	50.00- 150.00	100.00
6.854	6.854 (0.478)	64	1367931			0.00- 84.96	29.71
22 1,3-Butadiene					CAS #: 106-99-0		
6.937	6.937 (0.484)	54	4231848	100.000	92.589	50.00- 150.00	100.00
6.937	6.937 (0.484)	39	4324123			46.88- 146.88	102.18
25 Bromomethane					CAS #: 74-83-9		
8.015	8.015 (0.559)	94	2912125	100.000	97.158	50.00- 150.00	100.00
7.988	7.988 (0.557)	96	2725578			41.33- 141.33	93.59
27 Chloroethane					CAS #: 75-00-3		
8.319	8.319 (0.580)	64	2301015	100.000	101.95	50.00- 150.00	100.00
8.319	8.319 (0.580)	49	909195			0.00- 94.43	39.51
8.319	8.319 (0.580)	66	617776			0.00- 79.28	26.85
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	11227410	100.000	98.264	50.00- 150.00	100.00
8.928	8.928 (0.622)	103	7125927			15.68- 115.68	63.47

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.398	9.398 (0.655)	45	1956895	100.000	103.29	50.00- 150.00	100.00
9.425	9.425 (0.657)	43	414319			0.00- 73.90	21.17
9.425	9.425 (0.657)	46	740330			0.00- 88.16	37.83
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	4619980	100.000	100.69	50.00- 150.00	100.00
10.172	10.172 (0.709)	153	2871429			16.40- 116.40	62.15
10.172	10.172 (0.709)	101	6780612			100.01- 200.01	146.77
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	7940090	100.000	99.513	50.00- 150.00	100.00
10.283	10.283 (0.717)	96	2978014			0.00- 86.92	37.51
10.283	10.283 (0.717)	98	1896043			0.00- 74.85	23.88
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	2277014	100.000	101.10	50.00- 150.00	100.00
10.421	10.421 (0.726)	43	8730637			340.42- 440.42	383.42
46 2-Propanol					CAS #: 67-63-0		
10.614	10.614 (0.740)	45	10095451	100.000	105.63	50.00- 150.00	100.00
10.614	10.614 (0.740)	43	2433926			0.00- 76.39	24.11
10.614	10.614 (0.740)	59	332724			0.00- 53.62	3.30
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	9942947	100.000	101.48	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	1654771	100.000	103.72	50.00- 150.00	100.00
11.112	11.112 (0.775)	41	7070831			377.54- 477.54	427.30
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.444 (0.798)	49	6720378	100.000	96.276	50.00- 150.00	100.00
11.444	11.444 (0.798)	84	2606726			0.00- 86.35	38.79
11.444	11.444 (0.798)	51	2021390			0.00- 80.54	30.08
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	6184106	100.000	107.19	50.00- 150.00	100.00
11.776	11.776 (0.821)	57	2024765			0.00- 84.58	32.74
11.776	11.776 (0.821)	41	2097384			0.00- 86.33	33.92
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	3406464	100.000	101.84	50.00- 150.00	100.00
11.886	11.886 (0.828)	61	7617924			183.94- 283.94	223.63
11.886	11.886 (0.828)	98	2123507			13.50- 113.50	62.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.218	12.218 (0.852)	57	7982293	100.000	102.53	50.00- 150.00	100.00
12.218	12.218 (0.852)	43	5285394			20.34- 120.34	66.21
12.246	12.246 (0.854)	86	826306			0.00- 61.25	10.35
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.716 (0.886)	86	789108	100.000	103.12	50.00- 150.00	100.00
12.716	12.716 (0.886)	43	14881140			1872.40-1972.40	1885.82
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	8511459	100.000	100.92	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	2486334			0.00- 81.43	29.21
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	1474080	100.000	100.42	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	10202168			602.07- 702.07	692.10
13.822	13.822 (0.963)	57	755705			0.00- 97.16	51.27
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.849	13.849 (0.965)	61	6181238	100.000	97.703	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	3042173			0.00- 97.05	49.22
13.877	13.877 (0.967)	98	1939152			0.00- 80.30	31.37
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.319 (0.998)	42	5340091	100.000	103.03	50.00- 150.00	100.00
14.319	14.319 (0.998)	71	1355917			0.00- 76.49	25.39
14.319	14.319 (0.998)	72	1436706			0.00- 78.71	26.90
82 Chloroform					CAS #: 67-66-3		
14.402	14.402 (1.004)	83	6254539	100.000	96.731	50.00- 150.00	100.00
14.402	14.402 (1.004)	85	4438611			20.65- 120.65	70.97
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	6715588	100.000	101.72	50.00- 150.00	100.00
14.762	14.762 (1.029)	99	4285011			14.99- 114.99	63.81
85 Cyclohexane					CAS #: 110-82-7		
14.789	14.789 (1.031)	84	3449550	100.000	99.460	50.00- 150.00	100.00
14.789	14.789 (1.031)	56	6648639			145.33- 245.33	192.74
14.789	14.789 (1.031)	41	4050961			73.65- 173.65	117.43
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	7527631	100.000	99.855	50.00- 150.00	100.00
15.038	15.038 (1.048)	117	7919911			55.00- 155.00	105.21
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.960)	78	7752056	100.000	96.804	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
15.453	15.453 (0.960)	77	1716440			0.00- 71.75	22.14
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	18831831	100.000	101.50	50.00- 150.00	100.00
15.370	15.370 (1.071)	56	6201921			0.00- 82.54	32.93
15.370	15.370 (1.071)	41	5552659			0.00- 80.37	29.49
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.967)	62	5820656	100.000	98.348	50.00- 150.00	100.00
15.564	15.564 (0.967)	64	1744717			0.00- 82.49	29.97
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.972)	71	2690164	100.000	103.89	50.00- 150.00	100.00
15.647	15.647 (0.972)	43	7392525			238.48- 338.48	274.80
15.647	15.647 (0.972)	57	3865615			102.27- 202.27	143.69
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.031)	95	3460579	100.000	100.87	50.00- 150.00	100.00
16.587	16.587 (1.031)	130	3509888			54.15- 154.15	101.42
16.587	16.587 (1.031)	97	2205736			16.17- 116.17	63.74
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.060)	63	3829857	100.000	100.13	50.00- 150.00	100.00
17.057	17.057 (1.060)	62	2743986			21.69- 121.69	71.65
17.057	17.057 (1.060)	41	3088961			32.68- 132.68	80.65
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.069)	88	2000777	100.000	102.24	50.00- 150.00	100.00
17.195	17.195 (1.069)	58	1915038			48.37- 148.37	95.71
17.195	17.195 (1.069)	57	697653			0.00- 86.44	34.87
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.088)	83	6310182	100.000	101.58	50.00- 150.00	100.00
17.499	17.499 (1.088)	85	4410582			20.11- 120.11	69.90
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.136)	75	4689564	100.000	106.42	50.00- 150.00	100.00
18.273	18.273 (1.136)	77	1476125			0.00- 85.03	31.48
18.273	18.273 (1.136)	39	4256551			43.00- 143.00	90.77
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.148)	58	3685992	100.000	108.00	50.00- 150.00	100.00
18.467	18.467 (1.148)	43	10574143			244.73- 344.73	286.87
18.467	18.467 (1.148)	85	1163280			0.00- 81.51	31.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.170)	91	8763577	100.000	98.719	50.00- 150.00	100.00
18.826	18.826 (1.170)	92	5508277			10.54- 110.54	62.85
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	5229268	100.000	103.20	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	1632077			0.00- 80.88	31.21
19.269	19.269 (0.904)	39	4243425			33.61- 133.61	81.15
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.600	19.600 (0.920)	97	3249080	100.000	100.68	50.00- 150.00	100.00
19.600	19.600 (0.920)	99	1964974			12.31- 112.31	60.48
19.600	19.600 (0.920)	83	2665009			34.26- 134.26	82.02
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	4179107	100.000	98.812	50.00- 150.00	100.00
19.766	19.766 (0.927)	129	3510011			35.18- 135.18	83.99
19.766	19.766 (0.927)	131	3464634			33.48- 133.48	82.90
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	5072983	100.000	103.57	50.00- 150.00	100.00
19.905	19.905 (0.934)	43	10768630			161.51- 261.51	212.27
19.905	19.905 (0.934)	100	695316			0.00- 63.21	13.71
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	6989815	100.000	103.45	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	5435814			29.59- 129.59	77.77
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	6067120	100.000	99.349	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	5569291			39.77- 139.77	91.79
127 Chlorobenzene					CAS #: 108-90-7		
21.370	21.370 (1.003)	112	7654002	100.000	95.664	50.00- 150.00	100.00
21.370	21.370 (1.003)	114	2458853			0.00- 83.15	32.13
21.342	21.342 (1.001)	77	4633202			21.80- 121.80	60.53
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.453 (1.006)	106	4214487	100.000	96.590	50.00- 150.00	100.00
21.425	21.425 (1.005)	91	13089471			261.34- 361.34	310.58
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	5448627	100.000	97.597	50.00- 150.00	100.00
21.647	21.647 (1.016)	91	10626737			147.02- 247.02	195.04
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	4978811	100.000	96.405	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	10432707			158.66- 258.66	209.54
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	8357521	100.000	106.27	50.00- 150.00	100.00
22.365	22.365 (1.049)	78	4247645			10.48- 110.48	50.82
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	5883409	100.000	101.02	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	3047893			2.34- 102.34	51.80
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	14422232	100.000	95.479	50.00- 150.00	100.00
22.918	22.918 (1.075)	120	3947615			0.00- 77.95	27.37
22.891	22.891 (1.074)	51	2189392			0.00- 67.08	15.18
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	7268503	100.000	90.828	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	5175912			21.97- 121.97	71.21
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	17277257	100.000	91.825	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	4284640			0.00- 73.91	24.80
23.582	23.582 (1.106)	105	692660			0.00- 54.14	4.01
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	16589372	100.000	92.017	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	5406559			0.00- 82.75	32.59
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	12606289	100.000	85.462	50.00- 150.00	100.00
23.858	23.858 (1.119)	120	6450623			1.24- 101.24	51.17
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	12608140	100.000	86.699	50.00- 150.00	100.00
24.494	24.494 (1.149)	120	5983380			0.00- 97.02	47.46
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	8277680	100.000	87.276	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	5220209			12.07- 112.07	63.06
25.075	25.075 (1.176)	111	3578147			0.00- 94.74	43.23
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	8641683	100.000	86.831	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	5418018			13.30- 113.30	62.70
25.213	25.213 (1.183)	111	3626161			0.00- 92.03	41.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.434	25.434 (1.193)	91	13581789	100.000	93.188	50.00- 150.00	100.00
25.434	25.434 (1.193)	126	2802132			0.00- 69.83	20.63
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	8164269	100.000	85.219	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	5108906			12.84- 112.84	62.58
25.877	25.877 (1.214)	111	3653111			0.00- 95.15	44.75
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.752	28.752 (1.349)	180	4758562	100.000	111.13	50.00- 150.00	100.00
28.752	28.752 (1.349)	182	4496148			44.64- 144.64	94.49
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	3632871	100.000	101.65	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	2304633			13.71- 113.71	63.44
167 Naphthalene					CAS #: 91-20-3		
29.305	29.305 (1.375)	128	10594311	100.000	115.20	50.00- 150.00	100.00
29.305	29.305 (1.375)	127	1300704			0.00- 62.37	12.28
29 Isopentane					CAS #: 78-78-4		
8.319	8.319 (0.580)	43	6412890	100.000	97.676	50.00- 150.00	100.00
8.319	8.319 (0.580)	57	4287500			17.61- 117.61	66.86
19 Butane					CAS #: 106-97-8		
6.771	6.771 (0.472)	58	897639	100.000	92.317	50.00- 150.00	100.00
6.771	6.771 (0.472)	43	7750858			787.53- 887.53	863.47
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	4419631	100.000	103.83	50.00- 150.00	100.00
16.863	16.863 (1.175)	98	1990015			0.00- 97.34	45.03
16.863	16.863 (1.175)	55	6141129			95.79- 195.79	138.95
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	4710567	100.000	92.543	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	1114212			0.00- 74.69	23.65
11.444	11.444 (0.798)	57	492653			0.00- 61.62	10.46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080422.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 100ppbv (200 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	465153	-0.15
97 1,4-Difluorobenze	1452055	871233	2032877	1470786	1.29
126 Chlorobenzene-d5	1558716	935230	2182202	1565448	0.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.09	-0.17
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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.

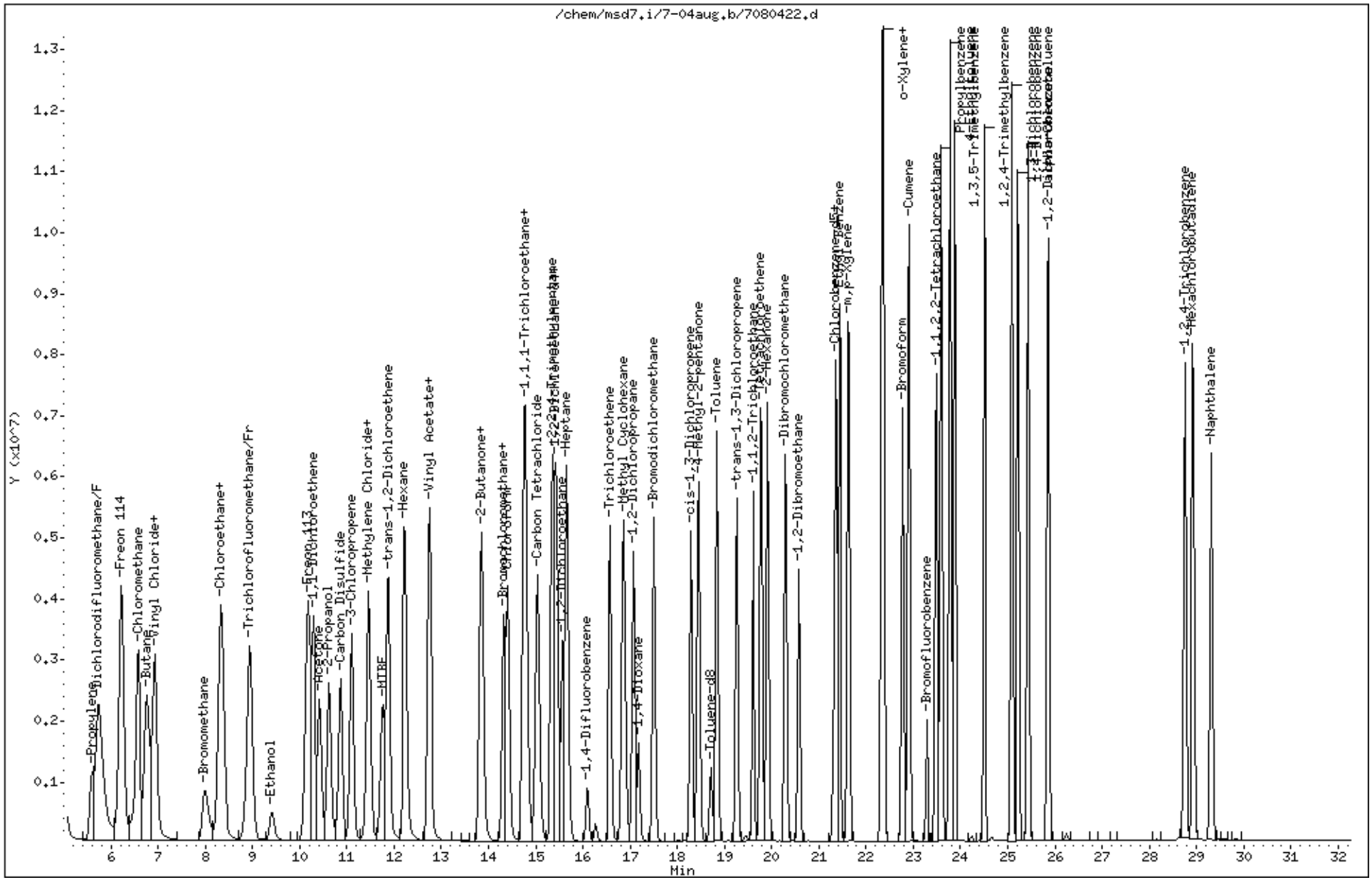
0172

Data File: /chem/msd7.i/7-04aug.b/7080422.d
Date : 04-AUG-2008 20:01
Client ID: Level 6
Sample Info: 100mL #1612-91

Instrument: msd7.i

Operator: dfm

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-24aug.b/7082406.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 24-AUG-2008 13:03
Operator : smd Inst ID: msd7.i
Smp Info : 200mL #1541-242
Misc Info : 200ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24aug.b/t14q804b.m
Meth Date : 24-Aug-2008 13:23 sdisher Quant Type: ISTD
Cal Date : 24-AUG-2008 13:03 Cal File: 7082406.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	375624	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	297138			27.57- 127.57	79.11
14.320	14.320 (1.000)	49	932673			227.21- 327.21	248.30
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1147040	25.0000		50.00- 150.00	100.00
16.089	16.089 (1.000)	88	199058			0.00- 67.24	17.35
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1247511	25.0000		50.00- 150.00	100.00
21.287	21.287 (1.000)	82	629499			1.08- 101.08	50.46
21 Isobutane					CAS #: 75-28-5		
6.274	6.274 (0.437)	43	13797445	200.000	188.99	50.00- 150.00	100.00
6.274	6.274 (0.437)	42	4683828			0.00- 84.88	33.95
6.274	6.274 (0.437)	58	306659			0.00- 52.64	2.22
35 1-Pentene					CAS #: 109-67-1		
8.900	8.900 (0.620)	55	10038079	200.000	194.71	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 1-Pentene (continued)							
8.900	8.900 (0.620)	42	13136540			73.58- 173.58	130.87
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
37 Pentane					CAS #: 109-66-0		
9.038	9.038 (0.630)	43	17459062	200.000	192.40	50.00- 150.00	100.00
9.038	9.038 (0.630)	57	2479974			0.00- 64.92	14.20
9.038	9.038 (0.630)	72	1028846			0.00- 56.13	5.89
39 Ethyl Ether					CAS #: 60-29-7		
9.619	9.619 (0.670)	74	2969829	200.000	200.55	50.00- 150.00	100.00
9.619	9.619 (0.670)	59	6317368			158.16- 258.16	212.72
0.000	1.000 (0.000)	31	0			0.00- 50.00	0.00
44 Acrolein					CAS #: 107-02-8		
10.117	10.117 (0.705)	55	3046608	200.000	202.02	50.00- 150.00	100.00(A)
10.117	10.117 (0.705)	56	4078770			80.85- 180.85	133.88
48 Ethyl acrylate					CAS #: 140-88-5		
16.614	16.614 (0.779)	99	736076	200.000	198.02	50.00- 150.00	100.00
16.614	16.614 (0.779)	45	1727448			205.77- 305.77	234.68
16.614	16.614 (0.779)	55	17328980			2221.85-2321.85	2354.24
49 Iodomethane					CAS #: 74-88-4		
10.753	10.753 (0.749)	142	14346195	200.000	193.69	50.00- 150.00	100.00
10.753	10.753 (0.749)	127	6867217			0.00- 97.52	47.87
50 Methyl Methacrylate					CAS #: 80-62-6		
17.057	17.057 (0.800)	41	11386594	200.000	197.28	50.00- 150.00	100.00
17.057	17.057 (0.800)	69	4965987			0.00- 93.65	43.61
17.057	17.057 (0.800)	100	2041893			0.00- 67.48	17.93
52 Acetonitrile					CAS #: 75-05-8		
11.195	11.195 (0.780)	40	3357734	200.000	159.43	50.00- 150.00	100.00
11.195	11.195 (0.780)	41	6623152			130.28- 230.28	197.25
11.195	11.195 (0.780)	38	864755			0.00- 74.99	25.75
56 Cyclopentane					CAS #: 287-92-3		
11.416	11.416 (0.796)	70	3634207	200.000	197.84	50.00- 150.00	100.00
11.416	11.416 (0.796)	55	7863880			168.23- 268.23	216.39
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
62 Acrylonitrile					CAS #: 107-13-1		
11.969	11.969 (0.834)	52	7226174	200.000	205.21	50.00- 150.00	100.00(A)
11.969	11.969 (0.834)	53	8558119			69.80- 169.80	118.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
63 2-Pentanone					CAS #: 107-87-9		
16.836	16.836 (0.790)	43	22025667	200.000	201.42	50.00- 150.00	100.00(A)
16.836	16.836 (0.790)	58	1470791			0.00- 57.02	6.68
16.836	16.836 (0.790)	86	2325828			0.00- 60.89	10.56
66 1-Hexene					CAS #: 592-41-6		
12.108	12.108 (0.844)	55	6394354	200.000	195.80	50.00- 150.00	100.00
12.080	12.080 (0.842)	41	10046162			115.90- 215.90	157.11
12.108	12.108 (0.844)	84	1507025			0.00- 73.54	23.57
79 Methyl Acrylate					CAS #: 96-33-3		
13.932	13.932 (0.971)	55	16084893	200.000	205.11	50.00- 150.00	100.00(A)
13.932	13.932 (0.971)	85	1718567			0.00- 60.78	10.68
13.932	13.932 (0.971)	58	1366773			0.00- 58.73	8.50
100 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
23.582	23.582 (1.106)	75	2101430	200.000	198.18	50.00- 150.00	100.00
23.582	23.582 (1.106)	89	1164316			4.51- 104.51	55.41
23.582	23.582 (1.106)	53	2782833			86.78- 186.78	132.43
103 Alphamethylstyrene					CAS #: 98-83-9		
24.246	24.246 (1.137)	118	11796748	200.000	190.36	50.00- 150.00	100.00
24.246	24.246 (1.137)	103	6116202			4.10- 104.10	51.85
105 Dibromomethane					CAS #: 74-95-3		
17.306	17.306 (0.812)	174	5080088	200.000	191.31	50.00- 150.00	100.00
17.306	17.306 (0.812)	93	5956714			70.54- 170.54	117.26
17.306	17.306 (0.812)	95	4848747			47.14- 147.14	95.45
124 Nonane					CAS #: 111-84-2		
21.425	21.425 (1.005)	43	17516421	200.000	173.06	50.00- 150.00	100.00
21.425	21.425 (1.005)	57	14832299			33.50- 133.50	84.68
21.425	21.425 (1.005)	85	3874136			0.00- 71.27	22.12
151 bis(2-chloroethyl)ether					CAS #: 111-44-4		
24.854	24.854 (1.166)	93	12604071	200.000	183.96	50.00- 150.00	100.00
24.854	24.854 (1.166)	95	4047568			0.00- 82.01	32.11

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7082406.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd7.i/7-24aug.b/t14q804b.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 24-AUG-2008
Calibration Time: 12:12
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	355343	213206	497480	375624	5.71
97 1,4-Difluorobenze	1128857	677314	1580400	1147040	1.61
126 Chlorobenzene-d5	1170645	702387	1638903	1247511	6.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.09	15.76	16.42	16.09	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

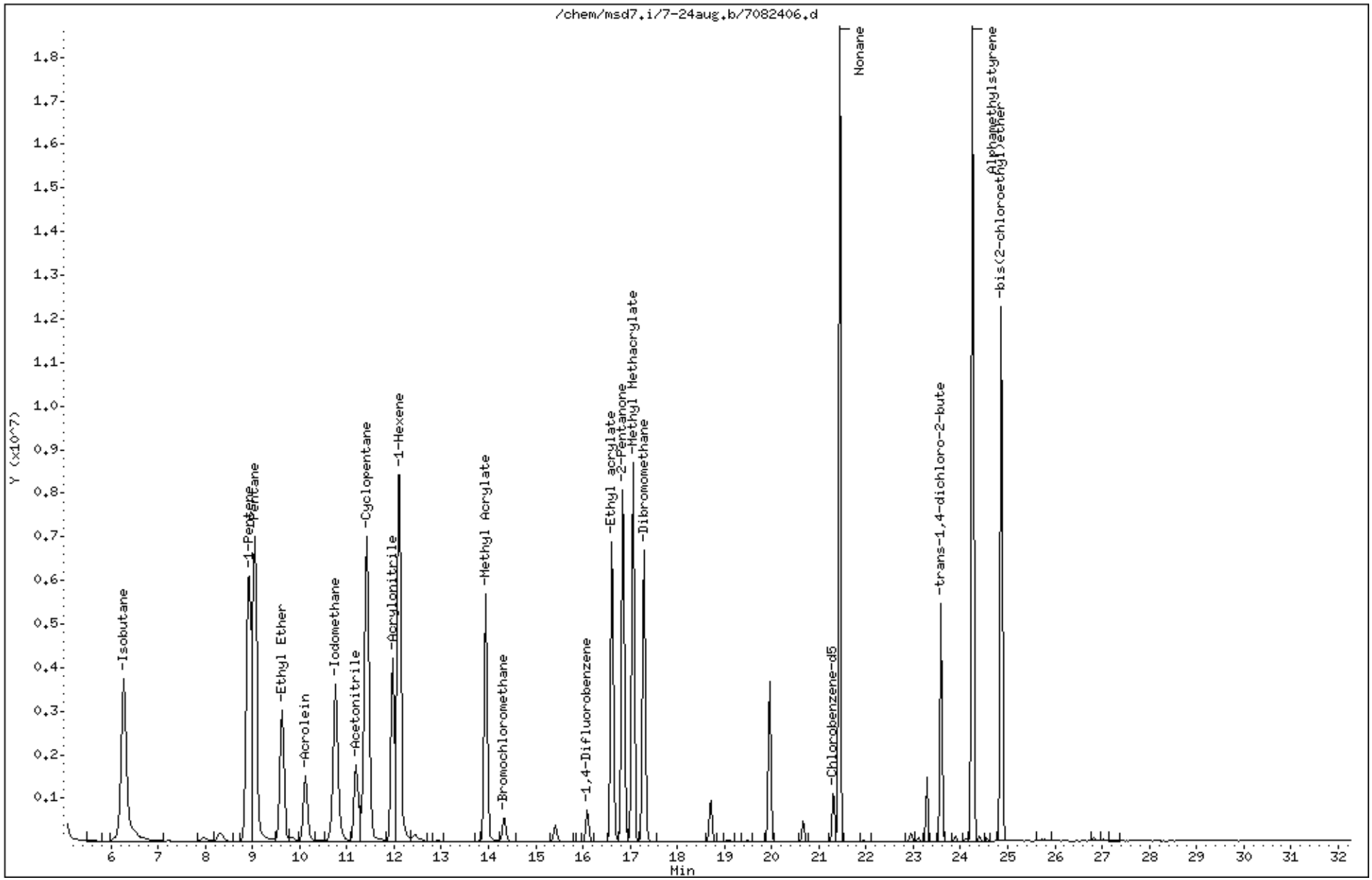
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd7.i/7-24aug.b/7082406.d
Date : 24-AUG-2008 13:03
Client ID: Level 7
Sample Info: 200mL #1541-242

Instrument: msd7.i

Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-05aug.b/7080506.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 05-AUG-2008 16:24
Operator : ra Inst ID: msd7.i
Smp Info : 200mL #1612-99
Misc Info : 200/1200 ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-05aug.b/t14q804a.m
Meth Date : 05-Aug-2008 17:38 sruth Quant Type: ISTD
Cal Date : 05-AUG-2008 16:24 Cal File: 7080506.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp37a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.333	14.333 (1.000)	130	459673	25.0000		50.00- 150.00		100.00
14.333	14.333 (1.000)	128	355949			27.54- 127.54		77.44
14.333	14.333 (1.000)	49	1110740			226.37- 326.37		241.64
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
16.103	16.103 (1.000)	114	1422235	25.0000		50.00- 150.00		100.00
16.103	16.103 (1.000)	88	254302			0.00- 67.24		17.88
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
21.301	21.301 (1.000)	117	1497175	25.0000		50.00- 150.00		100.00
21.301	21.301 (1.000)	82	765412			1.44- 101.44		51.12
96 2-Heptanone					CAS #: 110-43-0			
22.462	22.462 (1.567)	58	13029670	200.000	223.72	50.00- 150.00		100.00(A)
22.462	22.462 (1.567)	43	22871981			134.40- 234.40		175.54
146 Diisobutyl Ketone					CAS #: 108-83-8			
24.038	24.038 (1.129)	57	19742184	200.000	175.12	50.00- 150.00		100.00
24.038	24.038 (1.129)	85	11902098			7.15- 107.15		60.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
146 Diisobutyl Ketone (continued)							
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
99 Isobutanol					CAS #: 78-83-1		
15.080	15.080 (1.052)	59	229300	200.000	181.55	50.00- 150.00	100.00
15.080	15.080 (1.052)	41	5048049			1738.39-1838.39	2201.50
15.080	15.080 (1.052)	43	6778876			2172.15-2272.15	2956.33
98 1-Butanol					CAS #: 71-36-3		
16.269	16.269 (1.010)	56	6112238	200.000	231.64	50.00- 150.00	100.00(A)
16.269	16.269 (1.010)	41	4624260			27.33- 127.33	75.66
16.269	16.269 (1.010)	43	3640257			9.34- 109.34	59.56
71 1-Propanol					CAS #: 71-23-8		
12.785	12.785 (0.892)	42	1943797	200.000	206.37	50.00- 150.00	100.00(A)
12.785	12.785 (0.892)	59	2078733			101.28- 201.28	106.94
12.647	12.647 (0.882)	41	6483051			307.14- 407.14	333.53
73 t-Butylethyl Ether					CAS #: 637-92-3		
13.310	13.310 (0.929)	59	26901782	200.000	258.21	50.00- 150.00	100.00(A)
13.338	13.338 (0.931)	87	7208487			0.00- 76.06	26.80
13.310	13.310 (0.929)	41	5026704			0.00- 69.79	18.69
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
15.494	15.494 (1.081)	73	13701471	200.000	239.86	50.00- 150.00	100.00(A)
15.494	15.494 (1.081)	87	3344100			0.00- 75.36	24.41
15.494	15.494 (1.081)	55	5162368			0.00- 93.69	37.68
68 Isopropyl ether					CAS #: 108-20-3		
12.647	12.647 (0.882)	45	33268571	200.000	196.91	50.00- 150.00	100.00
12.647	12.647 (0.882)	87	4959347			0.00- 64.22	14.91
12.647	12.647 (0.882)	59	3091889			0.00- 60.75	9.29
119 Butyl Acetate					CAS #: 123-86-4		
20.029	20.029 (1.244)	56	8372476	200.000	218.89	50.00- 150.00	100.00(A)
20.029	20.029 (1.244)	73	1925926			0.00- 74.54	23.00
20.001	20.001 (1.242)	43	22017970			217.74- 317.74	262.98
77 Ethyl Acetate					CAS #: 141-78-6		
13.808	13.808 (0.963)	70	1313908	200.000	203.67	50.00- 150.00	100.00(A)
13.808	13.808 (0.963)	45	2933603			169.70- 269.70	223.27
13.808	13.808 (0.963)	61	4478348			269.98- 369.98	340.84
135 Cyclohexanone					CAS #: 108-94-1		
23.236	23.236 (1.091)	55	11399153	200.000	210.62	50.00- 150.00	100.00(A)
23.236	23.236 (1.091)	98	2955033			0.00- 75.03	25.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
135 Cyclohexanone (continued)							
23.236	23.236 (1.091)	42	8200921			21.37- 121.37	71.94
5 Freon 143a					CAS #: 420-46-2		
5.307	5.307 (0.370)	65	2813266	200.000	183.66	50.00- 150.00	100.00
5.392	5.392 (0.376)	69	16089793			439.02- 539.02	571.93
5.335	5.335 (0.372)	64	815998			0.00- 76.54	29.01
6 Freon142b					CAS #: 75-68-3		
6.293	6.293 (0.439)	65	13625586	200.000	180.55	50.00- 150.00	100.00
6.293	6.293 (0.439)	45	4124805			0.00- 81.70	30.27
9 Freon 13					CAS #: 75-72-9		
5.223	5.223 (0.364)	85	1804983	200.000	170.71	50.00- 150.00	100.00
5.223	5.223 (0.364)	87	557903			0.00- 89.74	30.91
5.392	5.392 (0.376)	69	16149266			873.00- 973.00	894.70
13 Freon 134a					CAS #: 811-97-2		
5.420	5.420 (0.378)	83	5664926	200.000	189.88	50.00- 150.00	100.00
5.392	5.392 (0.376)	69	16089793			243.86- 343.86	284.02
5.420	5.420 (0.378)	63	1032350			0.00- 68.27	18.22
15 Freon 152a					CAS #: 75-37-6		
5.673	5.673 (0.396)	65	4164317	200.000	193.76	50.00- 150.00	100.00
5.786	5.786 (0.404)	51	26302870			486.38- 586.38	631.63
5.673	5.673 (0.396)	47	2977642			25.73- 125.73	71.50
17 Freon 22					CAS #: 75-45-6		
5.786	5.786 (0.404)	51	26389766	200.000	195.38	50.00- 150.00	100.00
5.814	5.814 (0.406)	67	1790661			0.00- 57.89	6.79
5.814	5.814 (0.406)	85	129431			0.00- 50.73	0.49
26 Methanol					CAS #: 67-56-1		
7.532	7.532 (0.525)	31	11713260	1200.00	883.10	50.00- 150.00	100.00
7.532	7.532 (0.525)	32	7778538			146.55- 246.55	66.41
41 Freon123					CAS #: 306-83-2		
9.937	9.937 (0.693)	83	9246036	200.000	189.16	50.00- 150.00	100.00
9.937	9.937 (0.693)	133	2202560			0.00- 73.53	23.82
9.937	9.937 (0.693)	85	6909012			21.75- 121.75	74.72
40 Freon123a					CAS #: 354-23-4		
9.771	9.771 (0.682)	117	6257802	200.000	205.73	50.00- 150.00	100.00(A)
9.771	9.771 (0.682)	67	8194194			94.79- 194.79	130.94
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.912	8.912 (0.622)	67	12915094	200.000	188.61	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
34 Dichlorofluoromethane/Fr21 (continued)							
8.912	8.912 (0.622)	69	3808099			0.00- 78.72	29.49
8.912	8.912 (0.622)	35	1013872			0.00- 58.83	7.85
136 Bromobenzene					CAS #: 108-86-1		
23.568	23.568 (1.106)	156	7831744	200.000	181.75	50.00- 150.00	100.00
23.568	23.568 (1.106)	158	7514445			45.98- 145.98	95.95
23.568	23.568 (1.106)	77	15773094			162.84- 262.84	201.40
158 Butylbenzene					CAS #: 104-51-8		
25.642	25.642 (1.204)	134	6353004	200.000	178.68	50.00- 150.00	100.00
25.642	25.642 (1.204)	91	25200370			351.45- 451.45	396.67
25.642	25.642 (1.204)	92	13956945			168.89- 268.89	219.69
149 sec-Butylbenzene					CAS #: 135-98-8		
24.757	24.757 (1.162)	105	29034431	200.000	177.60	50.00- 150.00	100.00
24.757	24.757 (1.162)	134	5591537			0.00- 68.92	19.26
24.757	24.757 (1.162)	91	4814499			0.00- 66.29	16.58
148 tert-Butylbenzene					CAS #: 98-06-6		
24.398	24.398 (1.145)	119	19456314	200.000	180.11	50.00- 150.00	100.00
24.398	24.398 (1.145)	134	4254963			0.00- 71.90	21.87
24.398	24.398 (1.145)	91	13166484			19.71- 119.71	67.67
141 2-Chlorotoluene					CAS #: 95-49-8		
23.845	23.845 (1.119)	126	6648983	200.000	186.39	50.00- 150.00	100.00
23.845	23.845 (1.119)	91	19157720			247.77- 347.77	288.13
23.845	23.845 (1.119)	65	2292548			0.00- 88.32	34.48
143 4-Chlorotoluene					CAS #: 106-43-4		
24.010	24.010 (1.127)	126	6339144	200.000	177.32	50.00- 150.00	100.00
24.010	24.010 (1.127)	91	18007324			250.86- 350.86	284.07
24.010	24.010 (1.127)	63	3127943			4.62- 104.62	49.34
162 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
27.245	27.245 (1.279)	157	7900294	200.000	183.76	50.00- 150.00	100.00
27.218	27.218 (1.278)	75	8585781			69.88- 169.88	108.68
27.245	27.245 (1.279)	155	6238112			30.44- 130.44	78.96
118 1,3-Dichloropropane					CAS #: 142-28-9		
19.918	19.918 (1.237)	76	8368228	200.000	207.27	50.00- 150.00	100.00(A)
19.918	19.918 (1.237)	41	9559282			65.74- 165.74	114.23
19.918	19.918 (1.237)	78	2649751			0.00- 81.47	31.66
78 2,2-Dichloropropane					CAS #: 594-20-7		
13.835	13.835 (0.965)	77	10825127	200.000	231.04	50.00- 150.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	78 2,2-Dichloropropane (continued)						
13.835	13.835 (0.965)	79	3751193			0.00- 83.30	34.65
13.835	13.835 (0.965)	97	1847623			0.00- 66.58	17.07
	153 p-Cymene				CAS #: 99-87-6		
24.978	24.978 (1.173)	119	26305556	200.000	175.29	50.00- 150.00	100.00
24.978	24.978 (1.173)	134	6566549			0.00- 73.80	24.96
24.978	24.978 (1.173)	91	6679396			0.00- 75.28	25.39
	125 1,1,1,2-Tetrachloroethane				CAS #: 630-20-6		
21.467	21.467 (1.008)	131	7852705	200.000	185.31	50.00- 150.00	100.00
21.467	21.467 (1.008)	117	5407284			19.52- 119.52	68.86
21.467	21.467 (1.008)	95	2988532			0.00- 89.36	38.06
	138 1,2,3-Trichloropropane				CAS #: 96-18-4		
23.623	23.623 (1.109)	110	4096361	200.000	177.44	50.00- 150.00	100.00
23.623	23.623 (1.109)	75	11859889			244.52- 344.52	289.52
23.623	23.623 (1.109)	61	4061876			51.91- 151.91	99.16
	154 1,2,3-Trimethylbenzene				CAS #: 526-73-8		
25.227	25.227 (1.184)	120	9747316	200.000	183.80	50.00- 150.00	100.00
25.227	25.227 (1.184)	105	21467131			177.52- 277.52	220.24
25.227	25.227 (1.184)	77	2626127			0.00- 79.93	26.94
	201 Pentachloroethane				CAS #: 76-01-7		
24.563	24.563 (1.153)	167	6201715	200.000	187.01	50.00- 150.00	100.00
24.536	24.536 (1.152)	117	7354297			75.04- 175.04	118.58
24.563	24.563 (1.153)	169	2952042			0.00- 97.66	47.60
	88 1,1-Dichloropropene				CAS #: 563-58-6		
15.052	15.052 (0.935)	110	2614945	200.000	202.52	50.00- 150.00	100.00(A)
15.052	15.052 (0.935)	75	7490685			237.77- 337.77	286.46
	55 Cyclopentene				CAS #: 142-29-0		
11.209	11.209 (0.782)	67	13394148	200.000	200.92	50.00- 150.00	100.00(A)
11.209	11.209 (0.782)	68	5132358			0.00- 88.36	38.32
11.209	11.209 (0.782)	53	4376484			0.00- 83.05	32.67

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080506.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-05aug.b/t14q804a.m
Misc Info: 200/1200 ppbv (200 ppbv)

Calibration Date: 05-AUG-2008
Calibration Time: 15:45
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	433524	260114	606934	459673	6.03
97 1,4-Difluorobenze	1378748	827249	1930247	1422235	3.15
126 Chlorobenzene-d5	1402863	841718	1964008	1497175	6.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.33	14.00	14.66	14.33	0.00
97 1,4-Difluorobenze	16.10	15.77	16.43	16.10	0.00
126 Chlorobenzene-d5	21.30	20.97	21.63	21.30	0.00

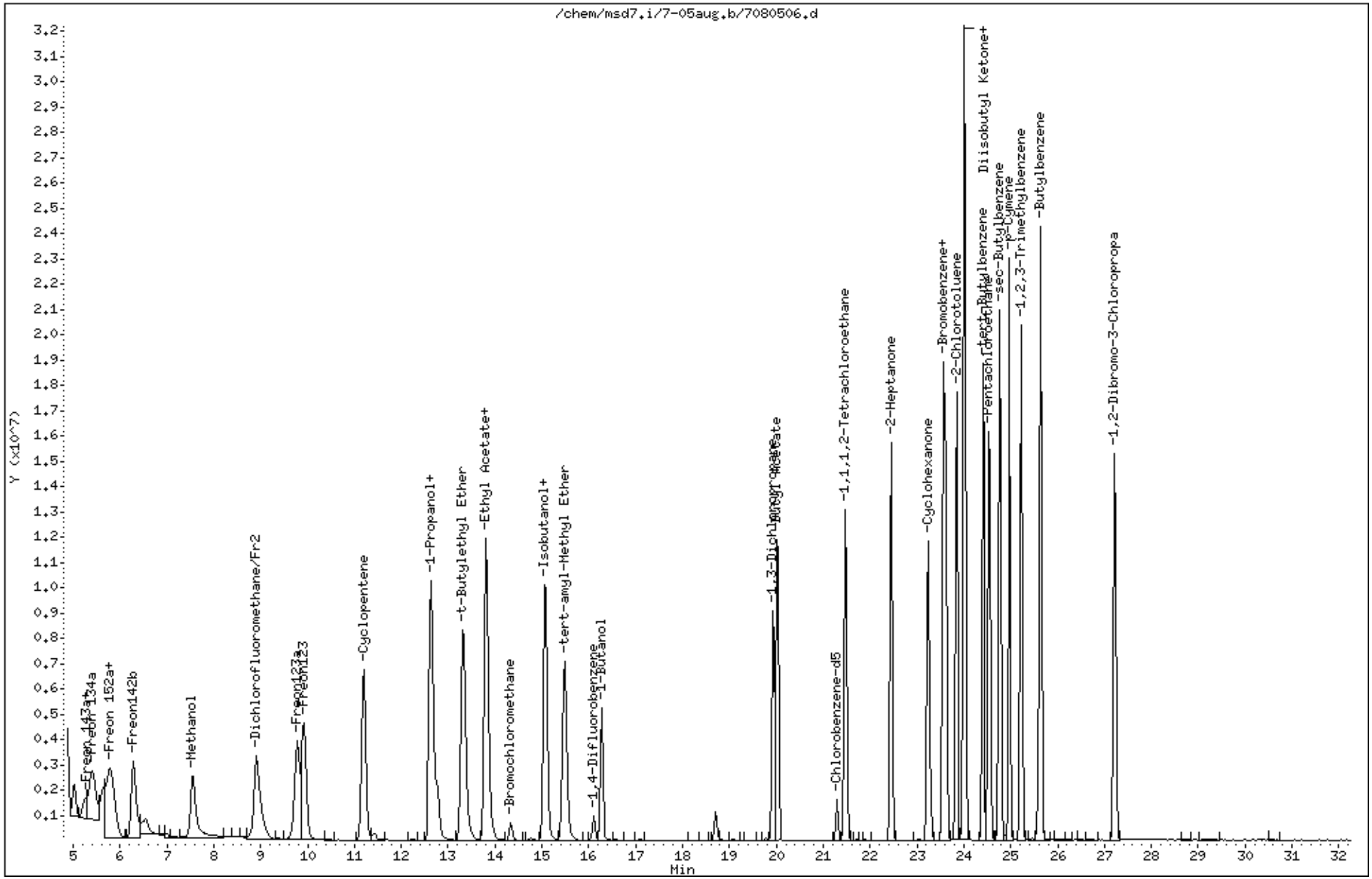
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0184

Data File: /chem/msd7.i/7-05aug.b/7080506.d
Date : 05-AUG-2008 16:24
Client ID: Level 7
Sample Info: 200mL #1612-99

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-04aug.b/7080423.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 04-AUG-2008 20:58
Operator : dfm Inst ID: msd7.i
Smp Info : 200mL #1612-91
Misc Info : 200ppbv (200 ppbv)
Comment :
Method : /chem/msd7.i/7-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 12:06 sscott Quant Type: ISTD
Cal Date : 04-AUG-2008 20:58 Cal File: 7080423.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.347	14.347 (1.000)	130	463826	25.0000		50.00- 150.00		100.00
14.347	14.347 (1.000)	128	365359			27.26- 127.26		78.77
14.403	14.403 (1.000)	49	3004304			253.14- 353.14		647.72
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
16.117	16.117 (1.000)	114	1512070	25.0000		50.00- 150.00		100.00
16.089	16.089 (1.000)	88	267613			0.00- 67.42		17.70
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
21.315	21.315 (1.000)	117	1575928	25.0000		50.00- 150.00		100.00
21.287	21.287 (1.000)	82	811549			1.03- 101.03		51.50
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
15.426	15.426 (1.075)	65	892935	25.0000	25.486	50.00- 150.00		100.00
15.426	15.426 (1.075)	67	576760			0.00- 97.37		64.59
$ 113 Toluene-d8					CAS #: 2037-26-5			
18.716	18.716 (1.161)	98	1519725	25.0000	26.255	50.00- 150.00		100.00
18.716	18.716 (1.161)	70	192949			0.00- 63.85		12.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	1167741			26.51- 126.51	76.84
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	837476	25.0000	25.826	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1169480			89.41- 189.41	139.64
23.278	23.278 (1.092)	176	791403			45.98- 145.98	94.50
11 Propylene					CAS #: 115-07-1		
5.638	5.638 (0.393)	41	7598651	200.000	192.13	50.00- 150.00	100.00
5.638	5.638 (0.393)	42	5238635			16.57- 116.57	68.94
5.638	5.638 (0.393)	39	5961921			28.60- 128.60	78.46
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.776	5.776 (0.403)	85	21998177	200.000	191.85	50.00- 150.00	100.00
5.776	5.776 (0.403)	87	6962253			0.00- 81.85	31.65
16 Freon 114					CAS #: 76-14-2		
6.274	6.274 (0.437)	135	11608236	200.000	189.52	50.00- 150.00	100.00
6.274	6.274 (0.437)	137	3866260			0.00- 84.02	33.31
18 Chloromethane					CAS #: 74-87-3		
6.578	6.578 (0.458)	50	8827699	200.000	181.00	50.00- 150.00	100.00
6.578	6.578 (0.458)	52	3040222			0.00- 81.05	34.44
20 Vinyl Chloride					CAS #: 75-01-4		
6.882	6.882 (0.480)	62	9060873	200.000	187.22	50.00- 150.00	100.00
6.882	6.882 (0.480)	64	2685950			0.00- 84.96	29.64
22 1,3-Butadiene					CAS #: 106-99-0		
6.965	6.965 (0.485)	54	8498477	200.000	186.47	50.00- 150.00	100.00
6.965	6.965 (0.485)	39	8581964			46.88- 146.88	100.98
25 Bromomethane					CAS #: 74-83-9		
8.016	8.016 (0.559)	94	6138589	200.000	205.39	50.00- 150.00	100.00(A)
8.016	8.016 (0.559)	96	5660746			41.33- 141.33	92.22
27 Chloroethane					CAS #: 75-00-3		
8.347	8.347 (0.582)	64	4669626	200.000	207.49	50.00- 150.00	100.00(A)
8.347	8.347 (0.582)	49	1821856			0.00- 94.43	39.02
8.347	8.347 (0.582)	66	1369634			0.00- 79.28	29.33
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.956	8.956 (0.624)	101	22180375	200.000	194.68	50.00- 150.00	100.00
8.956	8.956 (0.624)	103	14134552			15.68- 115.68	63.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.453	9.453 (0.659)	45	3807172	200.000	201.53	50.00- 150.00	100.00(A)
9.453	9.453 (0.659)	43	804439			0.00- 73.90	21.13
9.453	9.453 (0.659)	46	1462360			0.00- 88.16	38.41
42 Freon 113					CAS #: 76-13-1		
10.200	10.200 (0.711)	151	9114239	200.000	199.21	50.00- 150.00	100.00
10.200	10.200 (0.711)	153	5759109			16.40- 116.40	63.19
10.200	10.200 (0.711)	101	13326181			100.01- 200.01	146.21
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.310	10.310 (0.719)	61	15468628	200.000	194.42	50.00- 150.00	100.00
10.310	10.310 (0.719)	96	6013895			0.00- 86.92	38.88
10.310	10.310 (0.719)	98	3786099			0.00- 74.85	24.48
45 Acetone					CAS #: 67-64-1		
10.449	10.449 (0.728)	58	4640225	200.000	206.61	50.00- 150.00	100.00(A)
10.449	10.449 (0.728)	43	17447702			340.42- 440.42	376.01
46 2-Propanol					CAS #: 67-63-0		
10.642	10.642 (0.742)	45	20350573	200.000	213.54	50.00- 150.00	100.00(A)
10.642	10.642 (0.742)	43	4597890			0.00- 76.39	22.59
10.642	10.642 (0.742)	59	687182			0.00- 53.62	3.38
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	20166785	200.000	206.41	50.00- 150.00	100.00(A)
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	3402759	200.000	213.90	50.00- 150.00	100.00(A)
11.112	11.112 (0.775)	41	14123228			377.54- 477.54	415.05
54 Methylene Chloride					CAS #: 75-09-2		
11.472	11.472 (0.800)	49	13435544	200.000	193.03	50.00- 150.00	100.00
11.472	11.472 (0.800)	84	5342205			0.00- 86.35	39.76
11.472	11.472 (0.800)	51	4100692			0.00- 80.54	30.52
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	12023073	200.000	208.99	50.00- 150.00	100.00(A)
11.776	11.776 (0.821)	57	3908627			0.00- 84.58	32.51
11.776	11.776 (0.821)	41	3977750			0.00- 86.33	33.08
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	6815512	200.000	204.34	50.00- 150.00	100.00(A)
11.886	11.886 (0.828)	61	14809612			183.94- 283.94	217.29
11.886	11.886 (0.828)	98	4304944			13.50- 113.50	63.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	15685632	200.000	202.06	50.00- 150.00	100.00(A)
12.246	12.246 (0.854)	43	10301147			20.34- 120.34	65.67
12.246	12.246 (0.854)	86	1637369			0.00- 61.25	10.44
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.716 (0.886)	86	1563321	200.000	204.88	50.00- 150.00	100.00(A)
12.716	12.716 (0.886)	43	28802011			1872.40-1972.40	1842.36
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	16390022	200.000	194.90	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	4855765			0.00- 81.43	29.63
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	2974698	200.000	203.23	50.00- 150.00	100.00(A)
13.822	13.822 (0.963)	43	19881115			602.07- 702.07	668.34
13.822	13.822 (0.963)	57	1498602			0.00- 97.16	50.38
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.877 (0.967)	61	11962898	200.000	189.63	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	6069338			0.00- 97.05	50.73
13.877	13.877 (0.967)	98	3830222			0.00- 80.30	32.02
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (0.998)	42	10556537	200.000	204.26	50.00- 150.00	100.00(A)
14.320	14.320 (0.998)	71	2726523			0.00- 76.49	25.83
14.320	14.320 (0.998)	72	2874959			0.00- 78.71	27.23
82 Chloroform					CAS #: 67-66-3		
14.403	14.403 (1.004)	83	12156978	200.000	188.56	50.00- 150.00	100.00
14.403	14.403 (1.004)	85	8684862			20.65- 120.65	71.44
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	13043338	200.000	198.14	50.00- 150.00	100.00
14.762	14.762 (1.029)	99	8283600			14.99- 114.99	63.51
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	6773242	200.000	195.85	50.00- 150.00	100.00
14.790	14.790 (1.031)	56	12817598			145.33- 245.33	189.24
14.790	14.790 (1.031)	41	7692472			73.65- 173.65	113.57
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.039	15.039 (1.048)	119	14764330	200.000	196.41	50.00- 150.00	100.00
15.039	15.039 (1.048)	117	15567648			55.00- 155.00	105.44
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	15327257	200.000	186.17	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
15.453	15.453 (0.959)	77	3353194			0.00- 71.75	21.88
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	36785972	200.000	198.84	50.00- 150.00	100.00
15.370	15.370 (1.071)	56	12164136			0.00- 82.54	33.07
15.370	15.370 (1.071)	41	10722516			0.00- 80.37	29.15
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	11342078	200.000	186.41	50.00- 150.00	100.00
15.564	15.564 (0.966)	64	3374810			0.00- 82.49	29.75
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	5233337	200.000	196.58	50.00- 150.00	100.00
15.647	15.647 (0.971)	43	14195777			238.48- 338.48	271.26
15.647	15.647 (0.971)	57	7510706			102.27- 202.27	143.52
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	6780914	200.000	192.26	50.00- 150.00	100.00
16.587	16.587 (1.029)	130	7058753			54.15- 154.15	104.10
16.587	16.587 (1.029)	97	4319340			16.17- 116.17	63.70
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	7501067	200.000	190.76	50.00- 150.00	100.00
17.057	17.057 (1.058)	62	5381508			21.69- 121.69	71.74
17.057	17.057 (1.058)	41	5937716			32.68- 132.68	79.16
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	4068797	200.000	202.24	50.00- 150.00	100.00(A)
17.195	17.195 (1.067)	58	3855826			48.37- 148.37	94.77
17.195	17.195 (1.067)	57	1368738			0.00- 86.44	33.64
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	12182591	200.000	190.77	50.00- 150.00	100.00
17.499	17.499 (1.086)	85	8490091			20.11- 120.11	69.69
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	9348576	200.000	206.36	50.00- 150.00	100.00(A)
18.273	18.273 (1.134)	77	2903409			0.00- 85.03	31.06
18.273	18.273 (1.134)	39	8149599			43.00- 143.00	87.17
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	7121641	200.000	202.97	50.00- 150.00	100.00(A)
18.439	18.439 (1.144)	43	20630348			244.73- 344.73	289.69
18.467	18.467 (1.146)	85	2292346			0.00- 81.51	32.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	17436932	200.000	191.06	50.00- 150.00	100.00
18.826	18.826 (1.168)	92	10910008			10.54- 110.54	62.57
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	10290824	200.000	201.75	50.00- 150.00	100.00(A)
19.269	19.269 (0.904)	77	3239154			0.00- 80.88	31.48
19.241	19.241 (0.903)	39	8249703			33.61- 133.61	80.17
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	6392332	200.000	196.77	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	3915419			12.31- 112.31	61.25
19.601	19.601 (0.920)	83	5274984			34.26- 134.26	82.52
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	8139654	200.000	191.18	50.00- 150.00	100.00
19.767	19.767 (0.927)	129	6791722			35.18- 135.18	83.44
19.767	19.767 (0.927)	131	6825368			33.48- 133.48	83.85
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	9893502	200.000	200.64	50.00- 150.00	100.00(A)
19.905	19.905 (0.934)	43	20689800			161.51- 261.51	209.13
19.905	19.905 (0.934)	100	1388740			0.00- 63.21	14.04
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	13596853	200.000	199.90	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	10627167			29.59- 129.59	78.16
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	11691376	200.000	190.17	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	10908129			39.77- 139.77	93.30
127 Chlorobenzene					CAS #: 108-90-7		
21.343	21.343 (1.001)	112	15227249	200.000	189.05	50.00- 150.00	100.00
21.343	21.343 (1.001)	114	4847768			0.00- 83.15	31.84
21.343	21.343 (1.001)	77	8827311			21.80- 121.80	57.97
128 Ethyl Benzene					CAS #: 100-41-4		
21.426	21.426 (1.005)	106	8416765	200.000	191.62	50.00- 150.00	100.00
21.426	21.426 (1.005)	91	25073867			261.34- 361.34	297.90
129 m,p-Xylene					CAS #: 108-38-3		
21.619	21.619 (1.014)	106	10748669	200.000	191.25	50.00- 150.00	100.00
21.619	21.619 (1.014)	91	20645130			147.02- 247.02	192.07
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	9800990	200.000	188.51	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	19451500			158.66- 258.66	198.46
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	16163614	200.000	204.16	50.00- 150.00	100.00(A)
22.366	22.366 (1.049)	78	7860997			10.48- 110.48	48.63
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	11321654	200.000	193.11	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	5850130			2.34- 102.34	51.67
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	27772582	200.000	182.64	50.00- 150.00	100.00
22.919	22.919 (1.075)	120	7750322			0.00- 77.95	27.91
22.891	22.891 (1.074)	51	4076043			0.00- 67.08	14.68
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	13761751	200.000	170.82	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	9761579			21.97- 121.97	70.93
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	30220733	200.000	159.55	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	8375167			0.00- 73.91	27.71
23.582	23.582 (1.106)	105	1359222			0.00- 54.14	4.50
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	30520357	200.000	168.16	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	10776353			0.00- 82.75	35.31
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	24306322	200.000	163.68	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	12551703			1.24- 101.24	51.64
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	24294247	200.000	165.95	50.00- 150.00	100.00
24.495	24.495 (1.149)	120	11793603			0.00- 97.02	48.54
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	16096021	200.000	168.58	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	10191458			12.07- 112.07	63.32
25.075	25.075 (1.176)	111	6984242			0.00- 94.74	43.39
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.213	25.213 (1.183)	146	16835463	200.000	168.04	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	10640539			13.30- 113.30	63.20
25.213	25.213 (1.183)	111	6976342			0.00- 92.03	41.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.435	25.435 (1.193)	91	25393264	200.000	173.07	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	5503191			0.00- 69.83	21.67
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	15902683	200.000	164.89	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	9993526			12.84- 112.84	62.84
25.877	25.877 (1.214)	111	7113565			0.00- 95.15	44.73
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	10082555	200.000	233.91	50.00- 150.00	100.00(A)
28.753	28.753 (1.349)	182	9667910			44.64- 144.64	95.89
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	7321513	200.000	203.50	50.00- 150.00	100.00(A)
28.946	28.946 (1.358)	223	4588229			13.71- 113.71	62.67
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	23016692	200.000	248.60	50.00- 150.00	100.00(A)
29.306	29.306 (1.375)	127	2875408			0.00- 62.37	12.49
29 Isopentane					CAS #: 78-78-4		
8.347	8.347 (0.582)	43	12854146	200.000	196.34	50.00- 150.00	100.00
8.347	8.347 (0.582)	57	8493219			17.61- 117.61	66.07
19 Butane					CAS #: 106-97-8		
6.827	6.827 (0.476)	58	1837052	200.000	189.47	50.00- 150.00	100.00
6.827	6.827 (0.476)	43	15662375			787.53- 887.53	852.58
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	8787318	200.000	207.03	50.00- 150.00	100.00(A)
16.863	16.863 (1.175)	98	4033932			0.00- 97.34	45.91
16.863	16.863 (1.175)	55	11963738			95.79- 195.79	136.15
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	8299708	200.000	163.52	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	1922990			0.00- 74.69	23.17
11.444	11.444 (0.798)	57	876788			0.00- 61.62	10.56

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7080423.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msd7.i/7-04aug.b/t14q804a.m
Misc Info: 200ppbv (200 ppbv)

Calibration Date: 04-AUG-2008
Calibration Time: 19:20
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	465852	279511	652193	463826	-0.43
97 1,4-Difluorobenze	1452055	871233	2032877	1512070	4.13
126 Chlorobenzene-d5	1558716	935230	2182202	1575928	1.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	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.

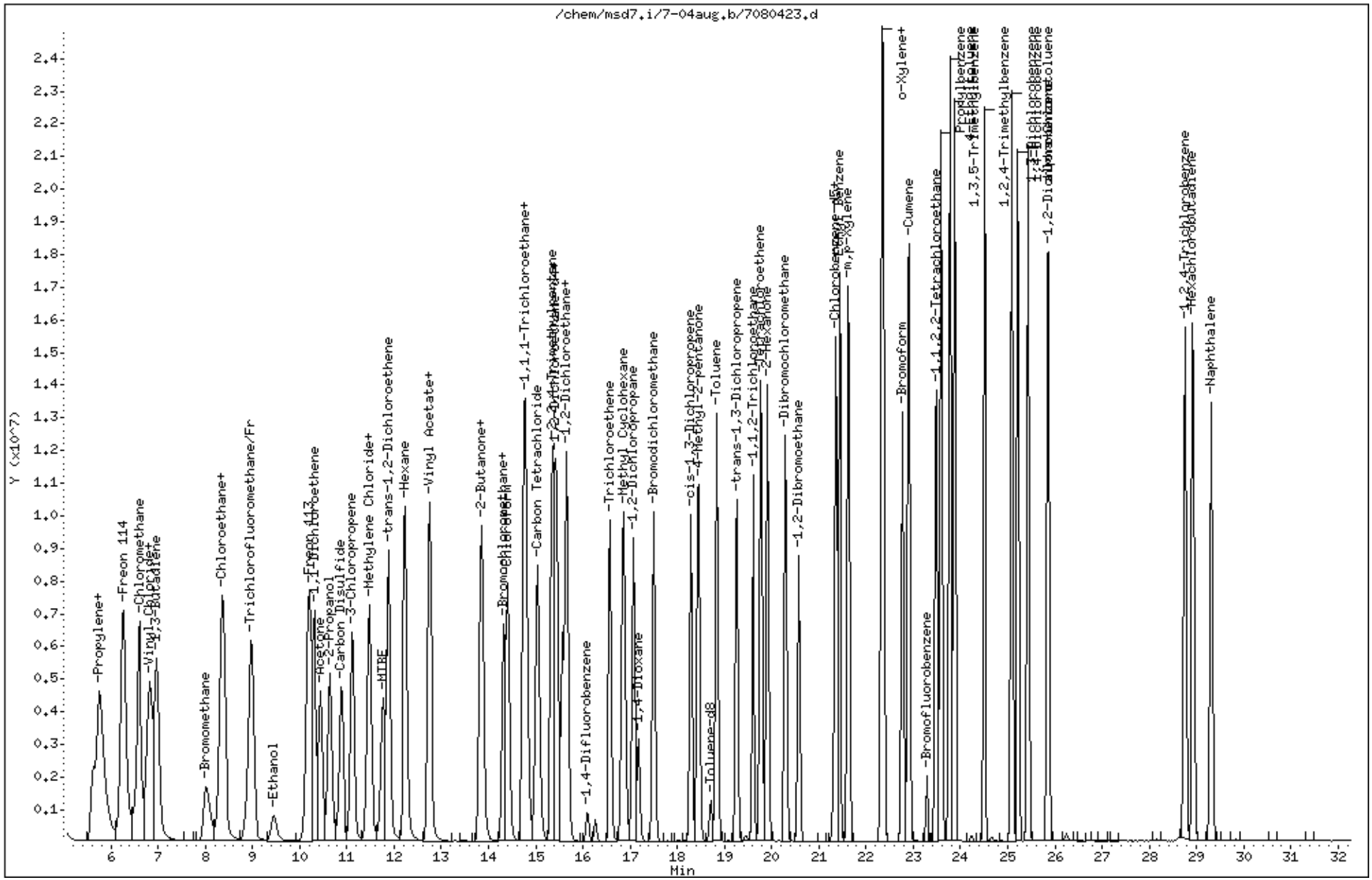
0194

Data File: /chem/msd7.i/7-04aug.b/7080423.d
Date : 04-AUG-2008 20:58
Client ID: Level 7
Sample Info: 200mL #1612-91

Instrument: msd7.i

Operator: dfm

Column phase: RTx-624
Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0808480-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/08 08:51 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	100
Vinyl Chloride	87
Bromomethane	88
Chloroethane	89
Freon 11	93
1,1-Dichloroethene	91
Freon 113	95
Methylene Chloride	84
1,1-Dichloroethane	93
cis-1,2-Dichloroethene	92
Chloroform	93
1,1,1-Trichloroethane	100
Carbon Tetrachloride	98
Benzene	96
1,2-Dichloroethane	97
Trichloroethene	101
1,2-Dichloropropane	99
cis-1,3-Dichloropropene	104
Toluene	98
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	101
Tetrachloroethene	98
1,2-Dibromoethane (EDB)	99
Chlorobenzene	97
Ethyl Benzene	99
m,p-Xylene	97
o-Xylene	96
Styrene	104
1,1,2,2-Tetrachloroethane	93
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	85
1,3-Butadiene	85
Hexane	91
Cyclohexane	99

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0808480-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/08 08:51 AM**	

Compound	%Recovery
Heptane	102
Bromodichloromethane	100
Dibromochloromethane	102
Cumene	97
Propylbenzene	94
Chloromethane	86
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	88
Acetone	88
Carbon Disulfide	90
2-Propanol	93
trans-1,2-Dichloroethene	96
2-Butanone (Methyl Ethyl Ketone)	93
Tetrahydrofuran	98
1,4-Dioxane	99
4-Methyl-2-pentanone	104
2-Hexanone	101
Bromoform	100
4-Ethyltoluene	94
Ethanol	88
Methyl tert-butyl ether	132 Q
3-Chloropropene	91
2,2,4-Trimethylpentane	100
Naphthalene	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i Injection Date: 03-SEP-2008 08:51
Lab File ID: 7090304.d Init. Cal. Date(s): 04-AUG-2008 27-AUG-2008
Analysis Type: AIR Init. Cal. Times: 16:14 15:00
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd7.i/7-03sep.b/t14q804c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 90 1,2-Dichloroethane-d4	1.88842	1.81729	0.010	3.76685	30.00000	Averaged	
$ 113 Toluene-d8	0.95700	1.00524	0.010	-5.04077	30.00000	Averaged	
$ 137 Bromofluorobenzene	0.51443	0.51429	0.010	0.02712	30.00000	Averaged	
11 Propylene	2.13167	1.82831	0.010	14.23124	30.00000	Averaged	
12 Dichlorodifluoromethane/Fr1	6.18020	5.56303	0.010	9.98611	30.00000	Averaged	
16 Freon 114	3.30144	3.28912	0.010	0.37317	30.00000	Averaged	
18 Chloromethane	2.62878	2.27177	0.010	13.58070	30.00000	Averaged	
20 Vinyl Chloride	2.60864	2.27645	0.010	12.73431	30.00000	Averaged	
22 1,3-Butadiene	2.45648	2.09364	0.010	14.77092	30.00000	Averaged	
25 Bromomethane	1.61093	1.41662	0.010	12.06198	30.00000	Averaged	
27 Chloroethane	1.21304	1.07953	0.010	11.00650	30.00000	Averaged	
31 Trichlorofluoromethane/Fr11	6.14089	5.73319	0.010	6.63914	30.00000	Averaged	
38 Ethanol	1.01821	0.89999	0.010	11.61045	30.00000	Averaged	
42 Freon 113	2.46602	2.35368	0.010	4.55543	30.00000	Averaged	
43 1,1-Dichloroethene	4.28836	3.89465	0.010	9.18096	30.00000	Averaged	
45 Acetone	1.21050	1.06963	0.010	11.63727	30.00000	Averaged	
46 2-Propanol	5.13654	4.75673	0.010	7.39431	30.00000	Averaged	
47 Carbon Disulfide	5.26616	4.74602	0.010	9.87691	30.00000	Averaged	
51 3-Chloropropene	0.85745	0.77972	0.010	9.06422	30.00000	Averaged	
54 Methylene Chloride	3.75162	3.13728	0.010	16.37534	30.00000	Averaged	
60 MTBE	3.10083	4.10744	0.010	-32.46276	30.00000	Averaged	<-
61 trans-1,2-Dichloroethene	1.79772	1.71845	0.010	4.40924	30.00000	Averaged	
65 Hexane	4.18414	3.81264	0.010	8.87881	30.00000	Averaged	
69 Vinyl Acetate	0.41128	0.38104	0.010	7.35357	30.00000	Averaged	
70 1,1-Dichloroethane	4.53271	4.21627	0.010	6.98138	30.00000	Averaged	
75 2-Butanone	0.78894	0.73268	0.010	7.13018	30.00000	Averaged	
76 cis-1,2-Dichloroethene	3.40024	3.12852	0.010	7.99125	30.00000	Averaged	
80 Tetrahydrofuran	2.78558	2.73130	0.010	1.94871	30.00000	Averaged	
82 Chloroform	3.47514	3.24300	0.010	6.67997	30.00000	Averaged	
83 1,1,1-Trichloroethane	3.54820	3.53083	0.010	0.48961	30.00000	Averaged	
85 Cyclohexane	1.86405	1.84578	0.010	0.97986	30.00000	Averaged	
87 Carbon Tetrachloride	4.05167	3.96211	0.010	2.21041	30.00000	Averaged	
89 2,2,4-Trimethylpentane	9.97132	9.95008	0.010	0.21295	30.00000	Averaged	
91 Benzene	1.36118	1.31133	0.010	3.66211	30.00000	Averaged	
93 1,2-Dichloroethane	1.00600	0.97273	0.010	3.30768	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i Injection Date: 03-SEP-2008 08:51
Lab File ID: 7090304.d Init. Cal. Date(s): 04-AUG-2008 27-AUG-2008
Analysis Type: AIR Init. Cal. Times: 16:14 15:00
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd7.i/7-03sep.b/t14q804c.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
94 Heptane	0.44016	0.44953	0.010	-2.12997	30.00000	Averaged
101 Trichloroethene	0.58312	0.58840	0.010	-0.90553	30.00000	Averaged
104 1,2-Dichloropropane	0.65014	0.64669	0.010	0.53100	30.00000	Averaged
106 1,4-Dioxane	0.33263	0.32889	0.010	1.12288	30.00000	Averaged
107 Bromodichloromethane	1.05584	1.06136	0.010	-0.52220	30.00000	Averaged
110 cis-1,3-Dichloropropene	0.74901	0.78093	0.010	-4.26144	30.00000	Averaged
111 4-Methyl-2-pentanone	0.58012	0.60083	0.010	-3.56914	30.00000	Averaged
114 Toluene	1.50894	1.47726	0.010	2.09967	30.00000	Averaged
116 trans-1,3-Dichloropropene	0.80917	0.82031	0.010	-1.37559	30.00000	Averaged
117 1,1,2-Trichloroethane	0.51535	0.51947	0.010	-0.79819	30.00000	Averaged
120 Tetrachloroethene	0.67542	0.66448	0.010	1.62077	30.00000	Averaged
121 2-Hexanone	0.78225	0.78777	0.010	-0.70645	30.00000	Averaged
122 Dibromochloromethane	1.07904	1.10216	0.010	-2.14218	30.00000	Averaged
123 1,2-Dibromoethane	0.97526	0.96183	0.010	1.37751	30.00000	Averaged
127 Chlorobenzene	1.27774	1.23824	0.010	3.09140	30.00000	Averaged
128 Ethyl Benzene	0.69681	0.68985	0.010	0.99936	30.00000	Averaged
129 m,p-Xylene	0.89156	0.86635	0.010	2.82845	30.00000	Averaged
130 o-Xylene	0.82476	0.78960	0.010	4.26306	30.00000	Averaged
131 Styrene	1.25595	1.30757	0.010	-4.11033	30.00000	Averaged
133 Bromoform	0.93007	0.93014	0.010	-0.00675	30.00000	Averaged
134 Cumene	2.41226	2.33180	0.010	3.33547	30.00000	Averaged
140 1,1,2,2-Tetrachloroethane	1.27799	1.19313	0.010	6.64002	30.00000	Averaged
142 Propylbenzene	3.00479	2.81164	0.010	6.42817	30.00000	Averaged
145 4-Ethyltoluene	2.87914	2.69759	0.010	6.30590	30.00000	Averaged
147 1,3,5-Trimethylbenzene	2.35569	2.02831	0.010	13.89745	30.00000	Averaged
150 1,2,4-Trimethylbenzene	2.32240	2.00233	0.010	13.78188	30.00000	Averaged
155 1,3-Dichlorobenzene	1.51467	1.30614	0.010	13.76681	30.00000	Averaged
156 1,4-Dichlorobenzene	1.58937	1.34935	0.010	15.10182	30.00000	Averaged
159 alpha-Chlorotoluene	2.32754	2.09173	0.010	10.13128	30.00000	Averaged
161 1,2-Dichlorobenzene	1.52997	1.29751	0.010	15.19376	30.00000	Averaged
165 1,2,4-Trichlorobenzene	0.68380	0.62047	0.010	9.26063	30.00000	Averaged
166 Hexachlorobutadiene	0.57073	0.50485	0.010	11.54231	30.00000	Averaged
29 Isopentane	3.52866	3.06278	0.010	13.20278	30.00000	Averaged
19 Butane	0.52259	0.45731	0.010	12.49201	30.00000	Averaged
102 Methyl Cyclohexane	2.28778	2.33481	0.010	-2.05563	30.00000	Averaged
167 Naphthalene	1.46871	1.32809	0.010	9.57427	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i Injection Date: 03-SEP-2008 08:51
Lab File ID: 7090304.d Init. Cal. Date(s): 04-AUG-2008 27-AUG-2008
Analysis Type: AIR Init. Cal. Times: 16:14 15:00
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd7.i/7-03sep.b/t14q804c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 tert-Butyl-Alcohol	2.73572	3.36094	0.010	-22.85371	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-03sep.b/7090304.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 03-SEP-2008 08:51
Operator : ra Inst ID: msd7.i
Smp Info : 50mL #1612-91
Misc Info : 200ppbv-50ppbv
Comment :
Method : /var/chem/msd7.i/7-03sep.b/t14q804c.m
Meth Date : 03-Sep-2008 10:44 ctaylor Quant Type: ISTD
Cal Date : 27-AUG-2008 15:00 Cal File: 7082709.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.347 (1.000)	130	305674	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	233912			26.52- 126.52	76.52
14.320	14.320 (1.000)	49	1007359			279.55- 379.55	329.55
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	963819	25.0000		80.00- 120.00	100.00
16.089	16.089 (1.000)	88	162654			0.00- 66.88	16.88
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1017675	25.0000		80.00- 120.00	100.00
21.287	21.287 (1.000)	82	508808			1.24- 101.24	50.00
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.426	15.426 (1.075)	65	555497	25.0000	24.058	80.00- 120.00	100.00
15.426	15.426 (1.075)	67	277690			0.00- 97.37	49.99
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	968874	25.0000	26.260	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	122449			0.00- 63.85	12.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	732592			26.51- 126.51	75.61
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	523381	25.0000	24.993	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	719286			87.43- 187.43	137.43
23.278	23.278 (1.092)	176	497777			45.11- 145.11	95.11
11 Propylene					CAS #: 115-07-1		
5.582	5.582 (0.389)	41	1117733	50.0000	42.884	80.00- 120.00	100.00
5.582	5.582 (0.389)	42	775300			16.57- 116.57	69.36
5.610	5.610 (0.391)	39	925770			28.60- 128.60	82.83
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	3400950	50.0000	45.007	80.00- 120.00	100.00
5.721	5.721 (0.399)	87	1079605			0.00- 81.85	31.74
16 Freon 114					CAS #: 76-14-2		
6.163	6.163 (0.430)	135	2010797	50.0000	49.813	80.00- 120.00	100.00
6.163	6.163 (0.430)	137	618111			0.00- 80.74	30.74
18 Chloromethane					CAS #: 74-87-3		
6.495	6.495 (0.453)	50	1388843	50.0000	43.210	80.00- 120.00	100.00
6.495	6.495 (0.453)	52	441199			0.00- 81.05	31.77
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	1391701	50.0000	43.633	80.00- 120.00	100.00
6.827	6.827 (0.476)	64	415662			0.00- 84.96	29.87
22 1,3-Butadiene					CAS #: 106-99-0		
6.910	6.910 (0.482)	54	1279940	50.0000	42.614	80.00- 120.00	100.00
6.882	6.882 (0.480)	39	1304416			46.88- 146.88	101.91
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.557)	94	866048	50.0000	43.969	80.00- 120.00	100.00
7.988	7.988 (0.557)	96	811851			43.74- 143.74	93.74
27 Chloroethane					CAS #: 75-00-3		
8.320	8.320 (0.580)	64	659969	50.0000	44.497	80.00- 120.00	100.00
8.320	8.320 (0.580)	49	262121			0.00- 94.43	39.72
8.320	8.320 (0.580)	66	188787			0.00- 79.28	28.61
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	3504974	50.0000	46.680	80.00- 120.00	100.00
8.928	8.928 (0.622)	103	2212417			13.12- 113.12	63.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.398	9.398 (0.655)	45	550210	50.0000	44.195	80.00- 120.00	100.00
9.398	9.398 (0.655)	43	130152			0.00- 73.90	23.65
9.398	9.398 (0.655)	46	201428			0.00- 88.16	36.61
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	1438916	50.0000	47.722	80.00- 120.00	100.00
10.172	10.172 (0.709)	153	908361			13.13- 113.13	63.13
10.172	10.172 (0.709)	101	2089490			95.21- 195.21	145.21
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	2380984	50.0000	45.410	80.00- 120.00	100.00
10.283	10.283 (0.717)	96	896211			0.00- 87.64	37.64
10.283	10.283 (0.717)	98	572319			0.00- 74.04	24.04
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	653918	50.0000	44.181	80.00- 120.00	100.00
10.421	10.421 (0.726)	43	2566972			340.42- 440.42	392.55
46 2-Propanol					CAS #: 67-63-0		
10.615	10.615 (0.740)	45	2908016	50.0000	46.303	80.00- 120.00	100.00
10.615	10.615 (0.740)	43	710506			0.00- 76.39	24.43
10.615	10.615 (0.740)	59	92723			0.00- 53.62	3.19
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.836 (0.755)	76	2901471	50.0000	45.062	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	476683	50.0000	45.468	80.00- 120.00	100.00
11.085	11.085 (0.773)	41	2051865			377.54- 477.54	430.45
54 Methylene Chloride					CAS #: 75-09-2		
11.416	11.416 (0.796)	49	1917968	50.0000	41.812	80.00- 120.00	100.00
11.416	11.416 (0.796)	84	771124			0.00- 90.21	40.21
11.416	11.416 (0.796)	51	600188			0.00- 80.54	31.29
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	2511076	50.0000	66.231	80.00- 120.00	100.00
11.776	11.776 (0.821)	57	786353			0.00- 81.32	31.32
11.776	11.776 (0.821)	41	837158			0.00- 86.33	33.34
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.859	11.859 (0.827)	96	1050573	50.0000	47.795	80.00- 120.00	100.00
11.859	11.859 (0.827)	61	2259685			165.09- 265.09	215.09
11.859	11.859 (0.827)	98	642876			13.50- 113.50	61.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	2330848	50.0000	45.560	80.00- 120.00	100.00
12.246	12.246 (0.854)	43	1581440			20.34- 120.34	67.85
12.246	12.246 (0.854)	86	240596			0.00- 61.25	10.32
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.716 (0.886)	86	232948	50.0000	46.323	80.00- 120.00	100.00
12.716	12.716 (0.886)	43	4442955			1872.40-1972.40	1907.27
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	2577607	50.0000	46.509	80.00- 120.00	100.00
12.771	12.771 (0.890)	65	758577			0.00- 79.43	29.43
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	447925	50.0000	46.435	80.00- 120.00	100.00
13.822	13.822 (0.963)	43	3103361			642.83- 742.83	692.83
13.822	13.822 (0.963)	57	224603			0.00- 97.16	50.14
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.850	13.850 (0.965)	61	1912614	50.0000	46.004	80.00- 120.00	100.00
13.850	13.850 (0.965)	96	957981			0.09- 100.09	50.09
13.850	13.850 (0.965)	98	588576			0.00- 80.77	30.77
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (0.998)	42	1669773	50.0000	49.026	80.00- 120.00	100.00
14.320	14.320 (0.998)	71	411027			0.00- 74.62	24.62
14.320	14.320 (0.998)	72	452830			0.00- 78.71	27.12
82 Chloroform					CAS #: 67-66-3		
14.403	14.403 (1.004)	83	1982600	50.0000	46.660	80.00- 120.00	100.00
14.403	14.403 (1.004)	85	1426350			21.94- 121.94	71.94
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	2158564	50.0000	49.755	80.00- 120.00	100.00
14.762	14.762 (1.029)	99	1387995			14.30- 114.30	64.30
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	1128415	50.0000	49.510	80.00- 120.00	100.00
14.790	14.790 (1.031)	56	2107201			136.74- 236.74	186.74
14.790	14.790 (1.031)	41	1305775			65.72- 165.72	115.72
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.039	15.039 (1.048)	119	2422227	50.0000	48.895	80.00- 120.00	100.00
15.039	15.039 (1.048)	117	2583935			56.68- 156.68	106.68
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	6082964	50.0000	49.894	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
15.370	15.370 (1.071)	56	2009065			0.00- 82.54	33.03
15.370	15.370 (1.071)	41	1817097			0.00- 80.37	29.87
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	2527770	50.0000	48.169	80.00- 120.00	100.00
15.453	15.453 (0.959)	77	545800			0.00- 71.75	21.59
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	1875063	50.0000	48.346	80.00- 120.00	100.00
15.564	15.564 (0.966)	64	560094			0.00- 82.49	29.87
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	866538	50.0000	51.065	80.00- 120.00	100.00
15.647	15.647 (0.971)	43	2434122			238.48- 338.48	280.90
15.647	15.647 (0.971)	57	1249591			102.27- 202.27	144.20
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	1134221	50.0000	50.453	80.00- 120.00	100.00
16.587	16.587 (1.029)	130	1151500			51.52- 151.52	101.52
16.587	16.587 (1.029)	97	717728			13.28- 113.28	63.28
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	1246587	50.0000	49.734	80.00- 120.00	100.00
17.057	17.057 (1.058)	62	885856			21.06- 121.06	71.06
17.057	17.057 (1.058)	41	998006			30.06- 130.06	80.06
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	633988	50.0000	49.438	80.00- 120.00	100.00
17.195	17.195 (1.067)	58	598673			44.43- 144.43	94.43
17.195	17.195 (1.067)	57	219681			0.00- 86.44	34.65
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	2045911	50.0000	50.261	80.00- 120.00	100.00
17.499	17.499 (1.086)	85	1413373			19.08- 119.08	69.08
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	1505350	50.0000	52.131	80.00- 120.00	100.00
18.273	18.273 (1.134)	77	472922			0.00- 81.42	31.42
18.273	18.273 (1.134)	39	1356627			40.12- 140.12	90.12
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	1158180	50.0000	51.784	80.00- 120.00	100.00
18.467	18.467 (1.146)	43	3414236			244.73- 344.73	294.79
18.467	18.467 (1.146)	85	366348			0.00- 81.51	31.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	2847615	50.0000	48.950	80.00- 120.00	100.00
18.826	18.826 (1.168)	92	1750463			11.47- 111.47	61.47
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	1669609	50.0000	50.688	80.00- 120.00	100.00
19.269	19.269 (0.904)	77	516716			0.00- 80.95	30.95
19.269	19.269 (0.904)	39	1346494			30.65- 130.65	80.65
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	1057297	50.0000	50.399	80.00- 120.00	100.00
19.601	19.601 (0.920)	99	650060			11.48- 111.48	61.48
19.601	19.601 (0.920)	83	869173			32.21- 132.21	82.21
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	1352440	50.0000	49.190	80.00- 120.00	100.00
19.767	19.767 (0.927)	129	1138629			34.19- 134.19	84.19
19.767	19.767 (0.927)	131	1138020			34.15- 134.15	84.15
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	1603395	50.0000	50.353	80.00- 120.00	100.00
19.905	19.905 (0.934)	43	3409256			162.63- 262.63	212.63
19.905	19.905 (0.934)	100	212710			0.00- 63.21	13.27
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	2243276	50.0000	51.071	80.00- 120.00	100.00
20.292	20.292 (0.952)	127	1789681			29.59- 129.59	79.78
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	1957653	50.0000	49.311	80.00- 120.00	100.00
20.568	20.568 (0.965)	109	1801581			42.03- 142.03	92.03
127 Chlorobenzene					CAS #: 108-90-7		
21.343	21.343 (1.001)	112	2520249	50.0000	48.454	80.00- 120.00	100.00
21.343	21.343 (1.001)	114	790949			0.00- 81.38	31.38
21.343	21.343 (1.001)	77	1539329			11.08- 111.08	61.08
128 Ethyl Benzene					CAS #: 100-41-4		
21.426	21.426 (1.005)	106	1404083	50.0000	49.500	80.00- 120.00	100.00
21.426	21.426 (1.005)	91	4272631			261.34- 361.34	304.30
129 m,p-Xylene					CAS #: 108-38-3		
21.619	21.619 (1.014)	106	1763318	50.0000	48.586	80.00- 120.00	100.00
21.619	21.619 (1.014)	91	3476816			147.02- 247.02	197.17
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	1607117	50.0000	47.868	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	3429921			163.42- 263.42	213.42
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	2661371	50.0000	52.055	80.00- 120.00	100.00
22.366	22.366 (1.049)	78	1387906			2.15- 102.15	52.15
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	1893152	50.0000	50.003	80.00- 120.00	100.00
22.780	22.780 (1.069)	171	975991			1.55- 101.55	51.55
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	4746034	50.0000	48.332	80.00- 120.00	100.00
22.919	22.919 (1.075)	120	1305636			0.00- 77.95	27.51
22.891	22.891 (1.074)	51	730490			0.00- 67.08	15.39
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	2428445	50.0000	46.680	80.00- 120.00	100.00
23.499	23.499 (1.102)	85	1721672			20.90- 120.90	70.90
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	5722671	50.0000	46.786	80.00- 120.00	100.00
23.582	23.582 (1.106)	120	1395706			0.00- 73.91	24.39
23.582	23.582 (1.106)	105	219392			0.00- 54.14	3.83
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	5490533	50.0000	46.847	80.00- 120.00	100.00
23.776	23.776 (1.115)	120	1778534			0.00- 82.39	32.39
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	4128314	50.0000	43.051	80.00- 120.00	100.00
23.859	23.859 (1.119)	120	2087670			1.24- 101.24	50.57
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	4075439	50.0000	43.109	80.00- 120.00	100.00
24.495	24.495 (1.149)	120	1928172			0.00- 97.02	47.31
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	2658461	50.0000	43.116	80.00- 120.00	100.00
25.075	25.075 (1.176)	148	1663066			12.07- 112.07	62.56
25.075	25.075 (1.176)	111	1167228			0.00- 94.74	43.91
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.213	25.213 (1.183)	146	2746396	50.0000	42.449	80.00- 120.00	100.00
25.213	25.213 (1.183)	148	1736918			13.30- 113.30	63.24
25.213	25.213 (1.183)	111	1140076			0.00- 92.03	41.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.435	25.435 (1.193)	91	4257407	50.0000	44.934	80.00- 120.00	100.00
25.435	25.435 (1.193)	126	881584			0.00- 69.83	20.71
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	2640895	50.0000	42.403	80.00- 120.00	100.00
25.877	25.877 (1.214)	148	1659330			12.83- 112.83	62.83
25.849	25.849 (1.213)	111	1158016			0.00- 93.85	43.85
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	1262883	50.0000	45.370	80.00- 120.00	100.00
28.753	28.753 (1.349)	182	1199025			44.94- 144.94	94.94
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.919	28.919 (1.357)	225	1027548	50.0000	44.229	80.00- 120.00	100.00
28.946	28.946 (1.358)	223	647811			13.71- 113.71	63.04
29 Isopentane					CAS #: 78-78-4		
8.320	8.320 (0.580)	43	1872425	50.0000	43.399	80.00- 120.00	100.00
8.320	8.320 (0.580)	57	1227162			17.61- 117.61	65.54
19 Butane					CAS #: 106-97-8		
6.716	6.716 (0.468)	58	279576	50.0000	43.754	80.00- 120.00	100.00
6.716	6.716 (0.468)	43	2372177			787.53- 887.53	848.49
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	1427381	50.0000	51.028	80.00- 120.00	100.00
16.863	16.863 (1.175)	98	655959			0.00- 97.34	45.96
16.863	16.863 (1.175)	55	1993807			95.79- 195.79	139.68
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	2703129	50.0000	45.213	80.00- 120.00	100.00
29.306	29.306 (1.375)	127	327518			0.00- 62.37	12.12
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	2054703	50.0000	61.427	80.00- 120.00	100.00
11.444	11.444 (0.798)	41	474911			0.00- 74.69	23.11
11.444	11.444 (0.798)	57	205208			0.00- 61.62	9.99

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7090304.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /var/chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 03-SEP-2008
Calibration Time: 09:30
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	299657	179794	419520	305674	2.01
97 1,4-Difluorobenze	941841	565105	1318577	963819	2.33
126 Chlorobenzene-d5	948886	569332	1328440	1017675	7.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

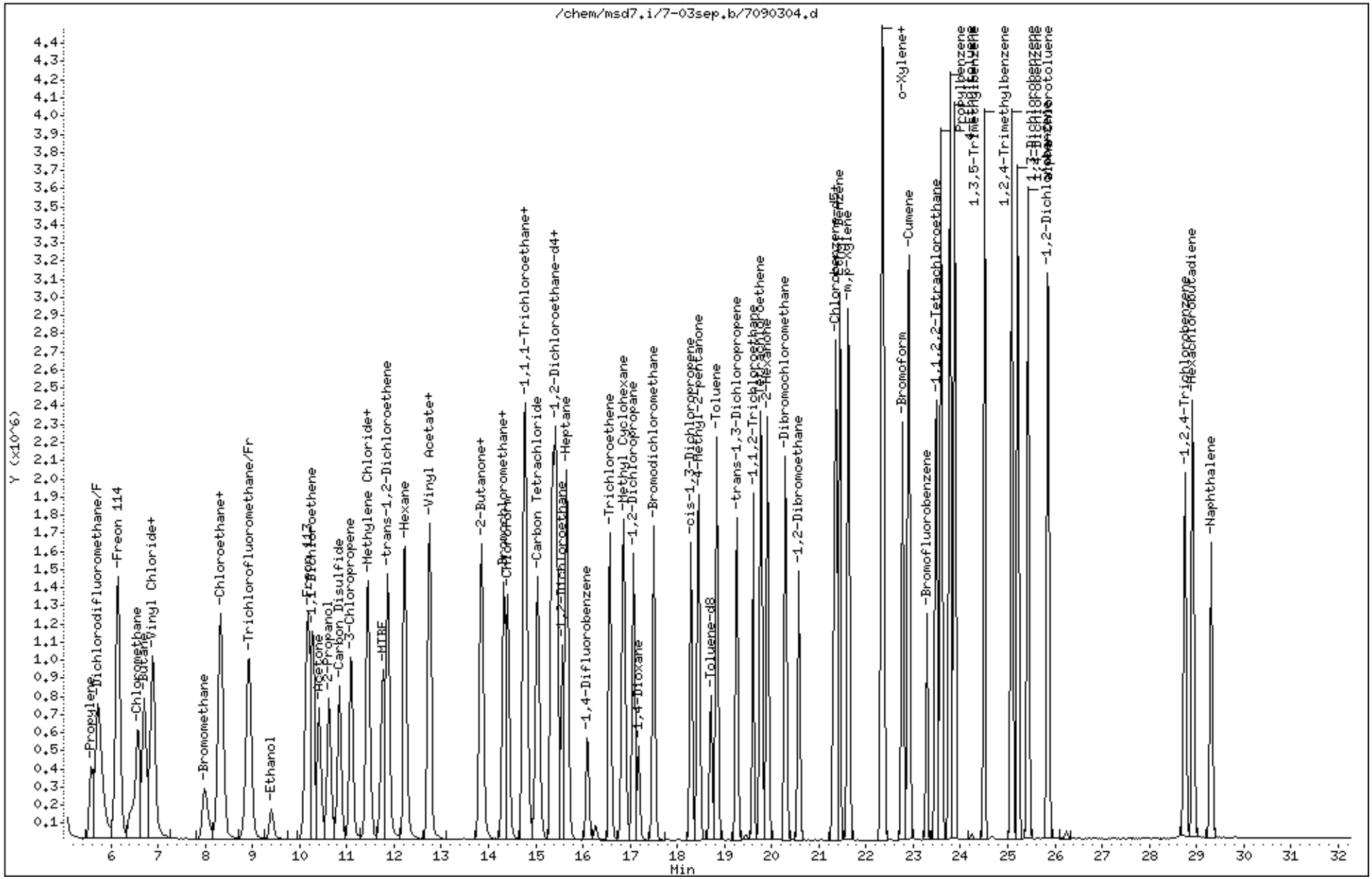
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0209

Data File: /chem/msd7.i/7-03sep.b/7090304.d
Date : 03-SEP-2008 08:51
Client ID: CCV-1
Sample Info: 50mL #1612-91

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0808480-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/08 08:12 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	100
Vinyl Chloride	87
Bromomethane	86
Chloroethane	87
Freon 11	95
1,1-Dichloroethene	102
Freon 113	105
Methylene Chloride	92
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	95
Chloroform	97
1,1,1-Trichloroethane	103
Carbon Tetrachloride	99
Benzene	95
1,2-Dichloroethane	100
Trichloroethene	100
1,2-Dichloropropane	98
cis-1,3-Dichloropropene	102
Toluene	102
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	100
Tetrachloroethene	98
1,2-Dibromoethane (EDB)	95
Chlorobenzene	96
Ethyl Benzene	94
m,p-Xylene	94
o-Xylene	96
Styrene	97
1,1,2,2-Tetrachloroethane	94
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	85
1,3-Butadiene	83
Hexane	90
Cyclohexane	96

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0808480-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7090303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/08 08:12 AM**	

Compound	%Recovery
Heptane	101
Bromodichloromethane	101
Dibromochloromethane	104
Cumene	98
Propylbenzene	94
Chloromethane	82
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	109
Acetone	95
Carbon Disulfide	88
2-Propanol	92
trans-1,2-Dichloroethene	94
2-Butanone (Methyl Ethyl Ketone)	92
Tetrahydrofuran	96
1,4-Dioxane	91
4-Methyl-2-pentanone	103
2-Hexanone	96
Bromoform	102
4-Ethyltoluene	94
Ethanol	80
Methyl tert-butyl ether	137
3-Chloropropene	94
2,2,4-Trimethylpentane	100
Naphthalene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

Report Date: 03-Sep-2008 10:45

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-03sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ra
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: 50ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	45.230	90.46	70-130
16 Freon 114	50.000	49.973	99.95	70-130
18 Chloromethane	50.000	41.092	82.18	70-130
20 Vinyl Chloride	50.000	43.625	87.25	70-130
22 1,3-Butadiene	50.000	41.306	82.61	60-140
25 Bromomethane	50.000	42.821	85.64	70-130
27 Chloroethane	50.000	43.607	87.21	70-130
31 Trichlorofluoromet	50.000	47.312	94.62	70-130
38 Ethanol	50.000	40.012	80.03	60-140
42 Freon 113	50.000	52.654	105.31	70-130
43 1,1-Dichloroethene	50.000	50.940	101.88	70-130
45 Acetone	50.000	47.478	94.96	60-140
47 Carbon Disulfide	50.000	43.774	87.55	60-140
46 2-Propanol	50.000	45.933	91.87	60-140
54 Methylene Chloride	50.000	46.103	92.21	70-130
60 MTBE	50.000	68.451	136.90	60-140
61 trans-1,2-Dichloro	50.000	46.827	93.65	60-140
65 Hexane	50.000	45.148	90.30	60-140
69 Vinyl Acetate	50.000	46.122	92.24	60-140
70 1,1-Dichloroethane	50.000	48.383	96.77	70-130
76 cis-1,2-Dichloroet	50.000	47.624	95.25	70-130
75 2-Butanone	50.000	45.821	91.64	60-140
80 Tetrahydrofuran	50.000	48.082	96.16	60-140
82 Chloroform	50.000	48.724	97.45	70-130
85 Cyclohexane	50.000	48.054	96.11	60-140
83 1,1,1-Trichloroeth	50.000	51.358	102.72	70-130
87 Carbon Tetrachlori	50.000	49.596	99.19	70-130
91 Benzene	50.000	47.380	94.76	70-130
93 1,2-Dichloroethane	50.000	49.790	99.58	70-130
94 Heptane	50.000	50.601	101.20	60-140
101 Trichloroethene	50.000	50.078	100.16	70-130
104 1,2-Dichloropropan	50.000	48.900	97.80	70-130
106 1,4-Dioxane	50.000	45.611	91.22	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 Bromodichlorometha	50.000	50.673	101.35	60-140
110 cis-1,3-Dichloropr	50.000	51.142	102.28	70-130
111 4-Methyl-2-pentano	50.000	51.638	103.28	60-140
114 Toluene	50.000	50.762	101.53	70-130
116 trans-1,3-Dichloro	50.000	50.579	101.16	70-130
117 1,1,2-Trichloroeth	50.000	50.206	100.41	70-130
120 Tetrachloroethene	50.000	49.211	98.42	70-130
121 2-Hexanone	50.000	48.182	96.37	60-140
122 Dibromochlorometha	50.000	51.974	103.95	60-140
123 1,2-Dibromoethane	50.000	47.737	95.47	70-130
127 Chlorobenzene	50.000	48.136	96.27	70-130
128 Ethyl Benzene	50.000	47.291	94.58	70-130
129 m,p-Xylene	50.000	46.759	93.52	70-130
130 o-Xylene	50.000	48.262	96.52	70-130
131 Styrene	50.000	48.518	97.04	70-130
133 Bromoform	50.000	51.256	102.51	60-140
140 1,1,2,2-Tetrachlor	50.000	46.871	93.74	70-130
145 4-Ethyltoluene	50.000	47.133	94.27	60-140
147 1,3,5-Trimethylben	50.000	42.073	84.15	70-130
150 1,2,4-Trimethylben	50.000	42.667	85.33	70-130
155 1,3-Dichlorobenzen	50.000	44.096	88.19	70-130
156 1,4-Dichlorobenzen	50.000	43.194	86.39	70-130
159 alpha-Chlorotoluen	50.000	46.628	93.26	70-130
161 1,2-Dichlorobenzen	50.000	42.580	85.16	70-130
165 1,2,4-Trichloroben	50.000	60.412	120.82	70-130
166 Hexachlorobutadien	50.000	54.406	108.81	70-130
142 Propylbenzene	50.000	47.248	94.50	60-140
134 Cumene	50.000	48.962	97.92	60-140
51 3-Chloropropene	50.000	46.854	93.71	60-140
89 2,2,4-Trimethylpen	50.000	49.927	99.85	60-140
29 Isopentane	50.000	42.749	85.50	70-130
19 Butane	50.000	43.337	86.67	70-130
102 Methyl Cyclohexane	50.000	51.206	102.41	70-130
11 Propylene	50.000	45.148	90.30	60-140
167 Naphthalene	50.000	55.919	111.84	60-140
57 tert-Butyl-Alcohol	50.000	61.343	122.69	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	24.204	96.81	70-130
$ 113 Toluene-d8	25.000	25.574	102.30	70-130
$ 137 Bromofluorobenzene	25.000	24.870	99.48	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-03sep.b/7090303.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 03-SEP-2008 08:12
Operator : ra Inst ID: msd7.i
Smp Info : 200mL #1612-73B
Misc Info : 50ppbv-50ppbv
Comment :
Method : /var/chem/msd7.i/7-03sep.b/t14q804c.m
Meth Date : 03-Sep-2008 10:44 ctaylor Quant Type: ISTD
Cal Date : 27-AUG-2008 15:00 Cal File: 7082709.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.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		
14.347	14.347 (1.000)	130	304384	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	244328			26.52- 126.52	80.27
14.347	14.320 (1.000)	49	1001678			279.55- 379.55	329.08
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	972712	25.0000		80.00- 120.00	100.00
16.117	16.089 (1.000)	88	163929			0.00- 66.88	16.85
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1025444	25.0000		80.00- 120.00	100.00
21.287	21.287 (1.000)	82	518578			1.24- 101.24	50.57
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.426 (1.075)	65	556497	24.2037	24.204	80.00- 120.00	100.00
15.425	15.426 (1.075)	67	284543			0.00- 97.37	51.13
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	952282	25.5745	25.574	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	126813			0.00- 63.85	13.32

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.161)	100	732241			26.51- 126.51	76.89
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	524766	24.8695	24.870	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	733004			87.43- 187.43	139.68
23.278	23.278 (1.092)	176	506275			45.11- 145.11	96.48
11 Propylene					CAS #: 115-07-1		
5.637	5.582 (0.393)	41	1171773	45.1483	45.148	80.00- 120.00	100.00
5.637	5.582 (0.393)	42	813508			16.57- 116.57	69.43
5.637	5.610 (0.393)	39	954917			28.60- 128.60	81.49
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	3403363	45.2298	45.230	80.00- 120.00	100.00
5.748	5.721 (0.401)	87	1076473			0.00- 81.85	31.63
16 Freon 114					CAS #: 76-14-2		
6.190	6.163 (0.431)	135	2008743	49.9734	49.973	80.00- 120.00	100.00
6.190	6.163 (0.431)	137	635921			0.00- 80.74	31.66
18 Chloromethane					CAS #: 74-87-3		
6.522	6.495 (0.455)	50	1315188	41.0915	41.092	80.00- 120.00	100.00
6.522	6.495 (0.455)	52	446161			0.00- 81.05	33.92
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	1385590	43.6254	43.625	80.00- 120.00	100.00
6.854	6.827 (0.478)	64	401915			0.00- 84.96	29.01
22 1,3-Butadiene					CAS #: 106-99-0		
6.937	6.910 (0.484)	54	1235389	41.3056	41.306	80.00- 120.00	100.00
6.937	6.882 (0.484)	39	1299593			46.88- 146.88	105.20
25 Bromomethane					CAS #: 74-83-9		
8.015	7.988 (0.559)	94	839878	42.8211	42.821	80.00- 120.00	100.00
8.015	7.988 (0.559)	96	808939			43.74- 143.74	96.32
27 Chloroethane					CAS #: 75-00-3		
8.347	8.320 (0.582)	64	644045	43.6071	43.607	80.00- 120.00	100.00
8.347	8.320 (0.582)	49	273941			0.00- 94.43	42.53
8.347	8.320 (0.582)	66	192352			0.00- 79.28	29.87
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	3537414	47.3121	47.312	80.00- 120.00	100.00
8.928	8.928 (0.622)	103	2242488			13.12- 113.12	63.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.425	9.398 (0.657)	45	496040	40.0125	40.012	80.00- 120.00	100.00
9.425	9.398 (0.657)	43	105162			0.00- 73.90	21.20
9.453	9.398 (0.659)	46	194273			0.00- 88.16	39.16
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	1580902	52.6535	52.654	80.00- 120.00	100.00
10.172	10.172 (0.709)	153	997030			13.13- 113.13	63.07
10.172	10.172 (0.709)	101	2307058			95.21- 195.21	145.93
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	2659685	50.9398	50.940	80.00- 120.00	100.00
10.283	10.283 (0.717)	96	990681			0.00- 87.64	37.25
10.283	10.283 (0.717)	98	615043			0.00- 74.04	23.12
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	699752	47.4785	47.478	80.00- 120.00	100.00
10.421	10.421 (0.726)	43	2901516			340.42- 440.42	414.65
46 2-Propanol					CAS #: 67-63-0		
10.614	10.615 (0.740)	45	2872632	45.9333	45.933	80.00- 120.00	100.00
10.614	10.615 (0.740)	43	674801			0.00- 76.39	23.49
10.614	10.615 (0.740)	59	91697			0.00- 53.62	3.19
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.836 (0.755)	76	2806653	43.7737	43.774	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	489148	46.8546	46.854	80.00- 120.00	100.00
11.112	11.085 (0.775)	41	2110453			377.54- 477.54	431.45
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.416 (0.798)	49	2105869	46.1032	46.103	80.00- 120.00	100.00
11.444	11.416 (0.798)	84	807367			0.00- 90.21	38.34
11.444	11.416 (0.798)	51	631637			0.00- 80.54	29.99
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	2584267	68.4507	68.451	80.00- 120.00	100.00
11.776	11.776 (0.821)	57	846066			0.00- 81.32	32.74
11.776	11.776 (0.821)	41	894180			0.00- 86.33	34.60
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.859 (0.828)	96	1024937	46.8267	46.827	80.00- 120.00	100.00
11.886	11.859 (0.828)	61	2284516			165.09- 265.09	222.89
11.886	11.859 (0.828)	98	645797			13.50- 113.50	63.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.246	12.246 (0.854)	57	2299991	45.1480	45.148	80.00- 120.00	100.00
12.246	12.246 (0.854)	43	1590841			20.34- 120.34	69.17
12.246	12.246 (0.854)	86	225348			0.00- 61.25	9.80
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.716 (0.886)	86	230957	46.1219	46.122	80.00- 120.00	100.00
12.716	12.716 (0.886)	43	4444569			1872.40-1972.40	1924.41
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	2670135	48.3830	48.383	80.00- 120.00	100.00
12.771	12.771 (0.890)	65	770106			0.00- 79.43	28.84
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	440136	45.8208	45.821	80.00- 120.00	100.00
13.822	13.822 (0.963)	43	3173912			642.83- 742.83	721.12
13.822	13.822 (0.963)	57	234876			0.00- 97.16	53.36
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.849	13.850 (0.965)	61	1971585	47.6238	47.624	80.00- 120.00	100.00
13.849	13.850 (0.965)	96	954903			0.09- 100.09	48.43
13.877	13.850 (0.967)	98	600899			0.00- 80.77	30.48
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.320 (0.998)	42	1630729	48.0822	48.082	80.00- 120.00	100.00
14.319	14.320 (0.998)	71	395668			0.00- 74.62	24.26
14.319	14.320 (0.998)	72	435614			0.00- 78.71	26.71
82 Chloroform					CAS #: 67-66-3		
14.402	14.403 (1.004)	83	2061545	48.7236	48.724	80.00- 120.00	100.00
14.402	14.403 (1.004)	85	1465665			21.94- 121.94	71.10
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	2218703	51.3581	51.358	80.00- 120.00	100.00
14.762	14.762 (1.029)	99	1421459			14.30- 114.30	64.07
85 Cyclohexane					CAS #: 110-82-7		
14.789	14.790 (1.031)	84	1090616	48.0544	48.054	80.00- 120.00	100.00
14.789	14.790 (1.031)	56	2108126			136.74- 236.74	193.30
14.789	14.790 (1.031)	41	1326402			65.72- 165.72	121.62
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.039 (1.048)	119	2446608	49.5963	49.596	80.00- 120.00	100.00
15.038	15.039 (1.048)	117	2585540			56.68- 156.68	105.68
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	6061348	49.9269	49.927	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
15.370	15.370 (1.071)	56	1991132			0.00- 82.54	32.85
15.370	15.370 (1.071)	41	1811028			0.00- 80.37	29.88
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	2509305	47.3799	47.380	80.00- 120.00	100.00
15.453	15.453 (0.959)	77	561606			0.00- 71.75	22.38
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	1948860	49.7895	49.790	80.00- 120.00	100.00
15.564	15.564 (0.966)	64	593299			0.00- 82.49	30.44
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	866583	50.6008	50.601	80.00- 120.00	100.00
15.647	15.647 (0.971)	43	2425924			238.48- 338.48	279.94
15.647	15.647 (0.971)	57	1250418			102.27- 202.27	144.29
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	1136188	50.0782	50.078	80.00- 120.00	100.00
16.587	16.587 (1.029)	130	1158204			51.52- 151.52	101.94
16.587	16.587 (1.029)	97	722144			13.28- 113.28	63.56
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	1236973	48.8997	48.900	80.00- 120.00	100.00
17.057	17.057 (1.058)	62	872189			21.06- 121.06	70.51
17.057	17.057 (1.058)	41	1001266			30.06- 130.06	80.94
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	590307	45.6115	45.611	80.00- 120.00	100.00
17.195	17.195 (1.067)	58	577896			44.43- 144.43	97.90
17.195	17.195 (1.067)	57	210880			0.00- 86.44	35.72
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	2081708	50.6730	50.673	80.00- 120.00	100.00
17.499	17.499 (1.086)	85	1459327			19.08- 119.08	70.10
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	1490434	51.1423	51.142	80.00- 120.00	100.00
18.273	18.273 (1.134)	77	467177			0.00- 81.42	31.35
18.273	18.273 (1.134)	39	1345697			40.12- 140.12	90.29
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	1165554	51.6378	51.638	80.00- 120.00	100.00
18.467	18.467 (1.146)	43	3408815			244.73- 344.73	292.46
18.467	18.467 (1.146)	85	356182			0.00- 81.51	30.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	2980293	50.7625	50.762	80.00- 120.00	100.00
18.826	18.826 (1.168)	92	1840574			11.47- 111.47	61.76
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	1678740	50.5789	50.579	80.00- 120.00	100.00
19.269	19.269 (0.904)	77	525472			0.00- 80.95	31.30
19.269	19.269 (0.904)	39	1366505			30.65- 130.65	81.40
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.600	19.601 (0.920)	97	1061287	50.2060	50.206	80.00- 120.00	100.00
19.600	19.601 (0.920)	99	641663			11.48- 111.48	60.46
19.600	19.601 (0.920)	83	878790			32.21- 132.21	82.80
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	1363366	49.2113	49.211	80.00- 120.00	100.00
19.766	19.767 (0.927)	129	1172967			34.19- 134.19	86.03
19.766	19.767 (0.927)	131	1167509			34.15- 134.15	85.63
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	1545988	48.1826	48.182	80.00- 120.00	100.00
19.905	19.905 (0.934)	43	3309992			162.63- 262.63	214.10
19.905	19.905 (0.934)	100	200110			0.00- 63.21	12.94
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	2300387	51.9745	51.974	80.00- 120.00	100.00
20.292	20.292 (0.952)	127	1794113			29.59- 129.59	77.99
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	1909608	47.7366	47.737	80.00- 120.00	100.00
20.568	20.568 (0.965)	109	1781474			42.03- 142.03	93.29
127 Chlorobenzene					CAS #: 108-90-7		
21.342	21.343 (1.001)	112	2522793	48.1357	48.136	80.00- 120.00	100.00
21.342	21.343 (1.001)	114	808281			0.00- 81.38	32.04
21.342	21.343 (1.001)	77	1548442			11.08- 111.08	61.38
128 Ethyl Benzene					CAS #: 100-41-4		
21.425	21.426 (1.005)	106	1351647	47.2907	47.291	80.00- 120.00	100.00
21.425	21.426 (1.005)	91	4190522			261.34- 361.34	310.03
129 m,p-Xylene					CAS #: 108-38-3		
21.619	21.619 (1.014)	106	1709981	46.7592	46.759	80.00- 120.00	100.00
21.619	21.619 (1.014)	91	3388177			147.02- 247.02	198.14
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	1632709	48.2623	48.262	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	3405978			163.42- 263.42	208.61
131 Styrene					CAS #: 100-42-5		
22.365	22.366 (1.049)	104	2499455	48.5178	48.518	80.00- 120.00	100.00
22.365	22.366 (1.049)	78	1313813			2.15- 102.15	52.56
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	1955413	51.2566	51.256	80.00- 120.00	100.00
22.780	22.780 (1.069)	171	1008346			1.55- 101.55	51.57
134 Cumene					CAS #: 98-82-8		
22.918	22.919 (1.075)	105	4844570	48.9619	48.962	80.00- 120.00	100.00
22.918	22.919 (1.075)	120	1346519			0.00- 77.95	27.79
22.891	22.891 (1.074)	51	769480			0.00- 67.08	15.88
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	2456979	46.8707	46.871	80.00- 120.00	100.00
23.499	23.499 (1.102)	85	1765578			20.90- 120.90	71.86
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	5823341	47.2483	47.248	80.00- 120.00	100.00
23.582	23.582 (1.106)	120	1431496			0.00- 73.91	24.58
23.582	23.582 (1.106)	105	225313			0.00- 54.14	3.87
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	5566207	47.1329	47.133	80.00- 120.00	100.00
23.776	23.776 (1.115)	120	1829830			0.00- 82.39	32.87
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.859 (1.119)	105	4065282	42.0728	42.073	80.00- 120.00	100.00
23.858	23.859 (1.119)	120	2070251			1.24- 101.24	50.93
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.495 (1.149)	105	4064475	42.6674	42.667	80.00- 120.00	100.00
24.494	24.495 (1.149)	120	1921858			0.00- 97.02	47.28
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	2739599	44.0959	44.096	80.00- 120.00	100.00
25.075	25.075 (1.176)	148	1719959			12.07- 112.07	62.78
25.075	25.075 (1.176)	111	1197863			0.00- 94.74	43.72
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.213	25.213 (1.183)	146	2815953	43.1944	43.194	80.00- 120.00	100.00
25.213	25.213 (1.183)	148	1756370			13.30- 113.30	62.37
25.213	25.213 (1.183)	111	1172405			0.00- 92.03	41.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.434	25.435 (1.193)	91	4451579	46.6278	46.628	80.00- 120.00	100.00
25.434	25.435 (1.193)	126	910974			0.00- 69.83	20.46
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	2672189	42.5805	42.580	80.00- 120.00	100.00
25.877	25.877 (1.214)	148	1694083			12.83- 112.83	63.40
25.877	25.849 (1.214)	111	1210829			0.00- 93.85	45.31
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.752	28.753 (1.349)	180	1694441	60.4124	60.412	80.00- 120.00	100.00
28.752	28.753 (1.349)	182	1618014			44.94- 144.94	95.49
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.918	28.919 (1.357)	225	1273645	54.4063	54.406	80.00- 120.00	100.00
28.918	28.946 (1.357)	223	821762			13.71- 113.71	64.52
29 Isopentane					CAS #: 78-78-4		
8.319	8.320 (0.580)	43	1836627	42.7493	42.749	80.00- 120.00	100.00
8.347	8.320 (0.582)	57	1204727			17.61- 117.61	65.59
19 Butane					CAS #: 106-97-8		
6.771	6.716 (0.472)	58	275744	43.3372	43.337	80.00- 120.00	100.00
6.743	6.716 (0.470)	43	2444811			787.53- 887.53	886.62
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	1426325	51.2062	51.206	80.00- 120.00	100.00
16.863	16.863 (1.175)	98	646617			0.00- 97.34	45.33
16.863	16.863 (1.175)	55	1983864			95.79- 195.79	139.09
167 Naphthalene					CAS #: 91-20-3		
29.305	29.306 (1.375)	128	3368740	55.9191	55.919	80.00- 120.00	100.00
29.305	29.306 (1.375)	127	415436			0.00- 62.37	12.33
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	2043240	61.3430	61.343	80.00- 120.00	100.00
11.444	11.444 (0.798)	41	476191			0.00- 74.69	23.31
11.444	11.444 (0.798)	57	217893			0.00- 61.62	10.66

Report Date: 03-Sep-2008 10:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7090303.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /var/chem/msd7.i/7-03sep.b/t14q804c.m
Misc Info: 50ppbv-50ppbv

Calibration Date: 03-SEP-2008
Calibration Time: 08:51
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	305674	183404	427944	304384	-0.42
97 1,4-Difluorobenze	963819	578291	1349347	972712	0.92
126 Chlorobenzene-d5	1017675	610605	1424745	1025444	0.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

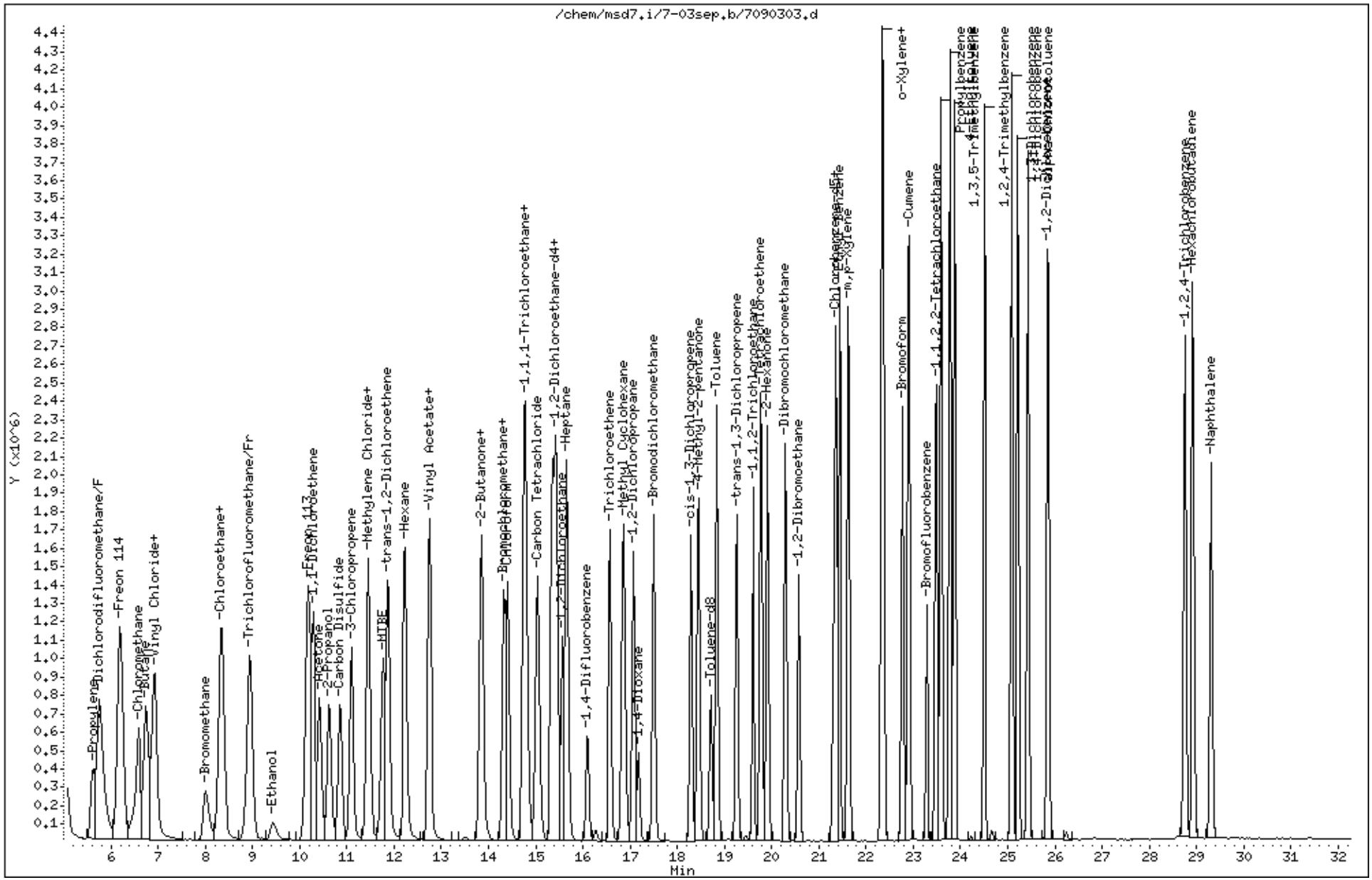
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0224

Data File: /chem/msd7.i/7-03sep.b/7090303.d
Date : 03-SEP-2008 08:12
Client ID: LCS-1
Sample Info: 200mL #1612-73B

Instrument: msd7.i
Operator: ra
Column diameter: 0.53

Column phase: RTx-624



0225

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	37.63
75	30.0 – 60.0% of mass 95	53.66
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	(0.69)[1]
174	50.0 – 100% of mass 95	69.34
175	5.0 – 9.0% of mass 174	(6.87)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.91)[1]
177	5.0 – 9.0% of mass 176	(6.28)[2]

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

BFB Injection Date: 9/3/08
BFB Injection Time: 0713
BFB File ID: 7090301
Tekmar Purge Flow: 15.8mL/min
Vacuum: 3.1-5

IS/S Std.#: 1612-59	Exp. Date: 10-3-08
BCM 305674	
1,4-DFB 963819	
CB-d5 1017675	

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

Verify 176/174 m/z Ratio: 496192/512064 x 100 = 96.90 **NOAH Cart #:** NA **File #:** NA

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 968874\ )}{(\ 963819\ )} \times \frac{(\ 25\ )}{(\ 0.95700\ )} = 26.260$

File ID:	7090304
Compound:	TO1-08
Initials:	RA

Reported Result 26.260

Method: T14&804c

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	7090301	BFB Tune Check	1476-476	50psig	2uL	1.00	[illegible]	9/3/08	0713	[illegible] CT	
2	X	02	CCV #1612-91	30ppbv	50ppbv	50mL		[illegible]		0733	RA/CT	
3	✓	03	LCS #1612-73B	50ppbv	50ppbv	20mL		[illegible]		0812	RA/CT	~~1612-91~~ RA 9-3-08 MTBE9
4	✓	04	CCV-1 (200ppbv)	~~RA 9-3-08 50ppbv~~	~~RA 9-3-08 x~~50ppbv	50mL		RA		0851	RA/CT	1612-91 ✓
5	✓	05	CCVsp (100ppbv)	1612-99A	50ppbv	100mL				0930	RA/CT	Sp37a CCV
6	✓	06	Lab Blank	33168	Humid	200mL	↓	↓	↓	1009	RA/CT	

RA
Signature

9-3-08
Date

@ Air Toxics Ltd. **MSD-7** Logbook #: 1706

7	✓	7090307		0808647-16A	94103	0.0"Hg - 15psi 28"Hg - 15psi	200mL	~~4.2~~ 2.02	RA	9-3-08	1047	RA / CJ.	
8	✓	↓	08	↓ -08A	2058	2.5"Hg-15psi	200mL	2.20	RA 9-3-08 ↓	↓	1126	CJ.	
9	✓		09	-10A	13388	3"Hg-15psi	40mL	11.2			1205	RA / CJ.	
10	X		10	-11A	SC92	3.5"Hg-15psi	40mL	11.4			1244	RA / CJ	rr@ 200mL
11	✓		11	-12A	SC16	3.5"Hg-15psi	4.0mL	~~11.4~~ RA 9-2-08			1323	RA / CJ.	DF=114.5
12	✓		12	↓ -11A	SC92	↓	200mL	2.29			1402	RA / CJ.	
13	~~—~~		~~13~~	~~0808480-01A~~	~~34450~~	~~8.5"Hg-5psi~~	~~200mL~~	~~1.87~~					Not loaded
14	✓		13	0808647-16AA	94103	0.0"Hg - 15psi 28"Hg - 15psi	200mL	2.02			1445	RA / CJ.	
15	✓		14	0808480-01A	34430	8.5"Hg-5psi	200mL	1.87			1524	RA / KR	
16	✓		15	0808480-02A	5558	↓	↓	↓	↓		1603	KR	
17	✓		16	0808477A-09A	12574	2.5"Hg-15psi	200mL	2.05	KR		1656	KR	
18	✓		17	↓ -10A	34085	4.0"Hg-15psi	200mL	2.33	↓		1744	KR	
19	✓		18	↓ -11A	14522	2.5"Hg-15psi	200mL	2.20			1839	KR	
20	x		19	0808512A-01A	2120	2.5"Hg-15psi	10mL	53.8			1929	KR	
21	✓		20	↓ -01A	↓	↓	30mL	17.9			2037	KR	Dil for NT
22	✓		21	-03A	35614	8.0"Hg-15psi	200mL	2.76			2127	KR	
23	x		22	-02A	36543	6.0"Hg-15psi	50mL	1010	↓		2217	DM	100X
24	✓		23	-02A	↓	↓	100mL	505	DM		2309	DM / LO	100X Dilute NT
25	✓		24	-04A	31759	8.0"Hg→15psi	200mL	2.76	↓	↓	2347	DM /	
26	✓		25	↓ -05A	SC91	20"Hg→15psi	50mL	~~6.04~~		9/4/08	0026	DM /	DF=24.2 Dilute NT
27	✓		26	0808511A-01A	33650	1.5"Hg→5psi	200mL	2.13		↓	0119	DM /	
28	✓		27	0808571A-01A	34736	3.5"Hg→5psi	200mL	1.52			0210	DM /	
29	✓		28	↓ -02A	1624	5.0"Hg→5psi	↓	1.61			0252	DM /	
30	✓		29	-04A	25131	15"Hg 5psi		2.68	↓		0347	DM / ↓	
31	✓	↓	30	0808547-01A	2106	11.5"Hg→15psi for 1.0"Hg→15psi	200mL	6.86	DM	9/4/08	0454	LO	rep. DF=6.86

Comments:

Laura Overmyer
Signature

9/4/08
Date

Air Toxics Ltd.

Data file : /var/chem/msd7.i/7-04aug.b/7080415.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 04-AUG-2008 15:03
Operator : ra Inst ID: msd7.i
Smp Info : 2uL #1476-434; BFB Tune Check; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msd7.i/7-04aug.b/bfb105.m
Meth Date : 04-Aug-2008 14:54 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.134	8.232	-0.098	95	1321072			100.00- 100.00	100.00
8.134	8.232	-0.098	50	452466			15.00- 40.00	34.25
8.134	8.232	-0.098	75	677407			30.00- 60.00	51.28
8.134	8.232	-0.098	96	85041			5.00- 9.00	6.44
8.134	8.232	-0.098	173	6951			0.00- 2.00	0.73
8.134	8.232	-0.098	174	950842			50.00- 100.00	71.98
8.134	8.232	-0.098	175	65506			5.00- 9.00	6.89
8.134	8.232	-0.098	176	907819			95.00- 101.00	95.48
8.134	8.232	-0.098	177	59447			5.00- 9.00	6.55

Data File: /var/chem/msd7.i/7-04aug.b/7080415.d

Date : 04-AUG-2008 15:03

Client ID: BFB

Instrument: msd7.i

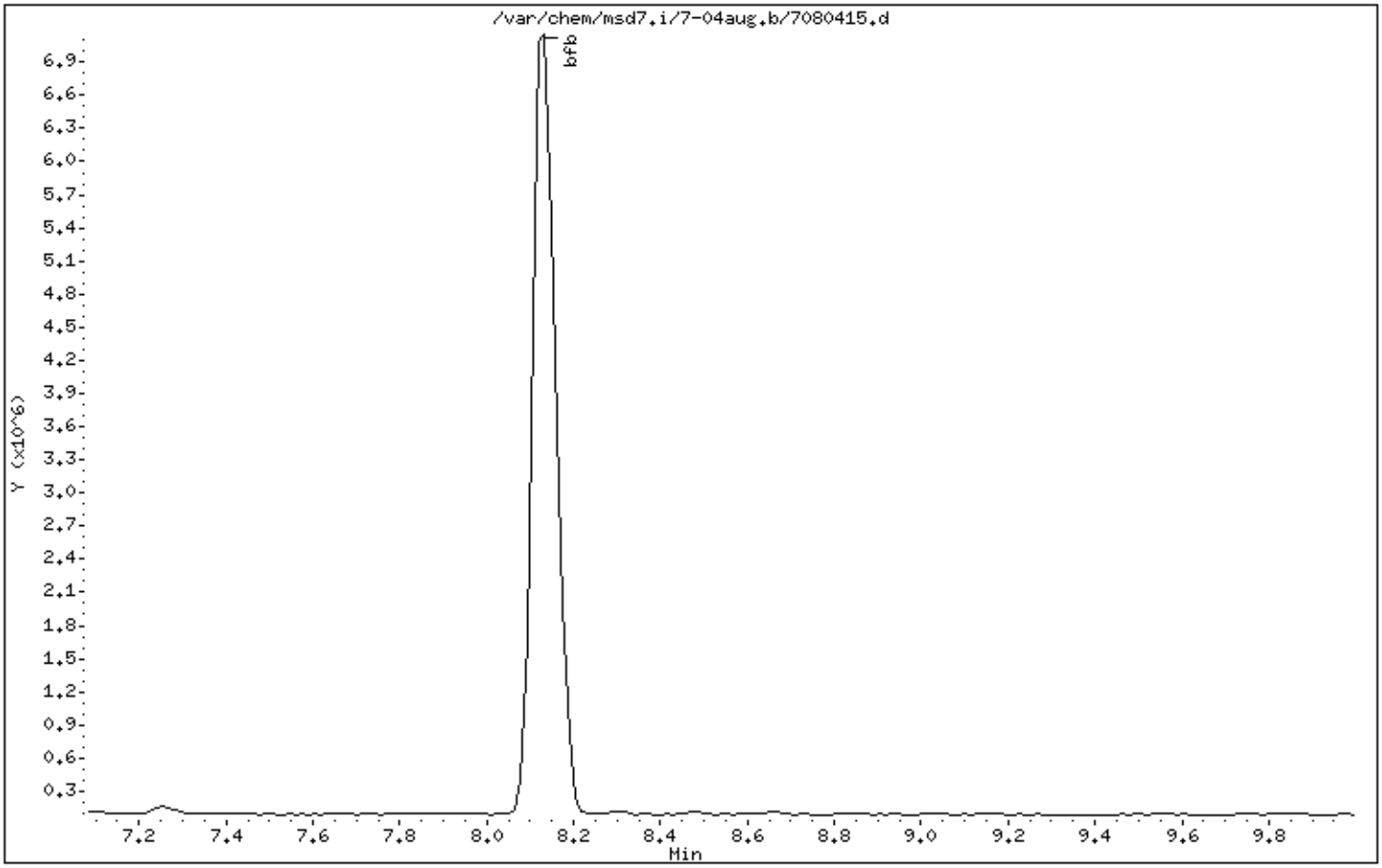
Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0

Operator: ra

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd7.i/7-04aug.b/7080415.d

Date : 04-AUG-2008 15:03

Client ID: BFB

Instrument: msd7.i

Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

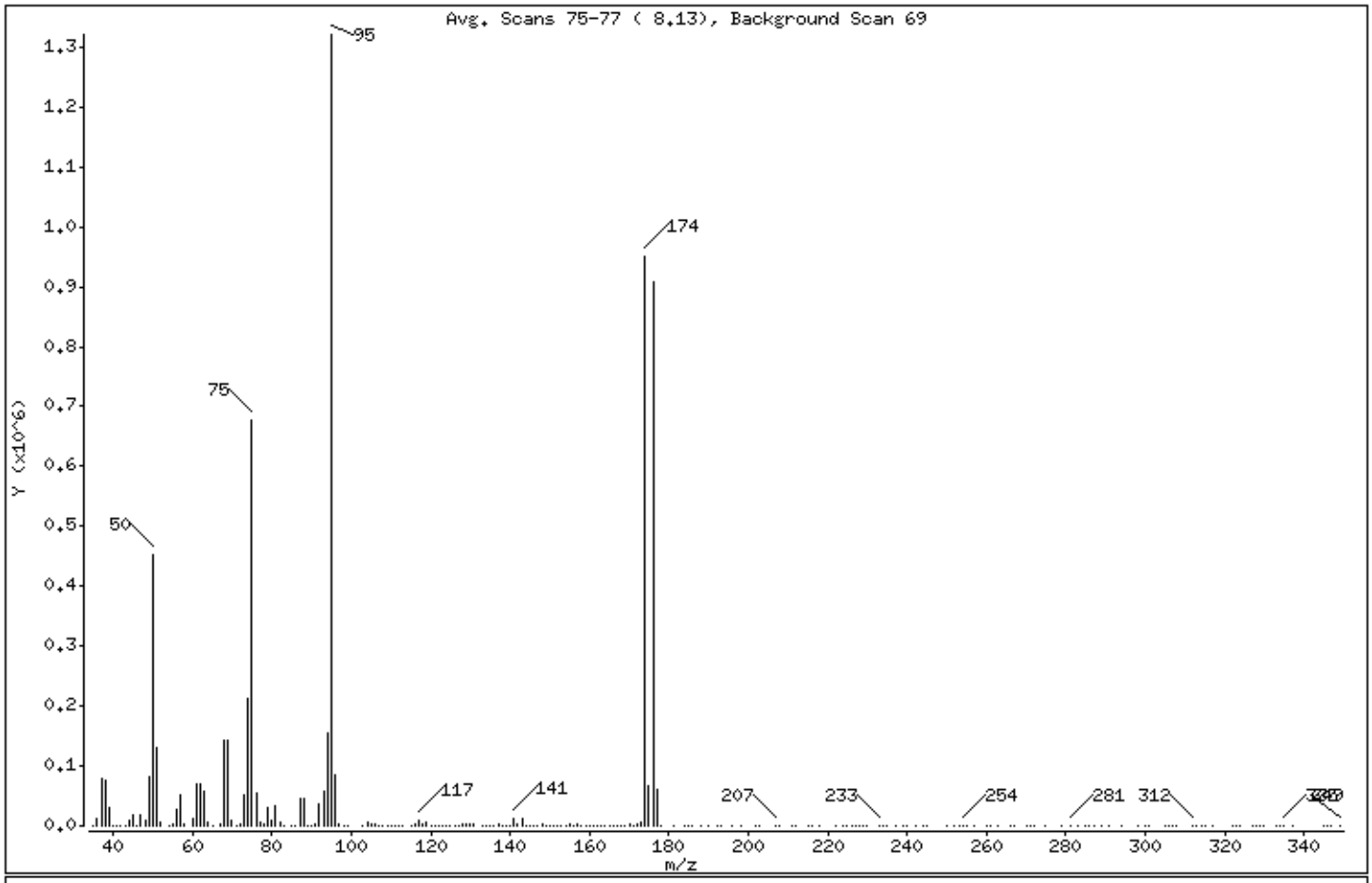
Volume Injected (uL): 2.0

Operator: ra

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	34.25
75	30.00 - 60.00% of mass 95	51.28
96	5.00 - 9.00% of mass 95	6.44
173	Less than 2.00% of mass 174	0.53 (0.73)
174	50.00 - 100.00% of mass 95	71.98
175	5.00 - 9.00% of mass 174	4.96 (6.89)
176	95.00 - 101.00% of mass 174	68.72 (95.48)
177	5.00 - 9.00% of mass 176	4.50 (6.55)

Date : 04-AUG-2008 15:03

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0 Operator: ra

Column phase: Column diameter: 0.53

Data File: 7080415.d
Spectrum: Avg. Scans 75-77 (8.13), Background Scan 69
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	164	95.00	1320960	156.00	232	242.00	78
36.00	13051	96.00	85040	157.00	1607	244.00	81
37.00	79136	97.00	2362	158.00	323	245.00	144
38.00	74608	98.00	51	159.00	1385	250.00	194
39.00	30888	99.00	52	160.00	178	252.00	88
40.00	571	103.00	202	161.00	1476	253.00	140
41.00	398	104.00	5481	162.00	420	254.00	336
42.00	133	105.00	1784	163.00	677	255.00	27
43.00	1002	106.00	4505	164.00	193	257.00	230
44.00	9267	107.00	1217	165.00	140	260.00	270
45.00	16976	108.00	163	166.00	69	261.00	66
46.00	1044	109.00	527	167.00	342	263.00	156
47.00	19520	110.00	753	168.00	800	266.00	72
48.00	9428	111.00	1142	169.00	608	267.00	184
49.00	80856	112.00	781	170.00	1686	270.00	60
50.00	452416	113.00	499	171.00	1195	271.00	265
51.00	131200	115.00	1342	172.00	1771	272.00	254
52.00	5082	116.00	4166	173.00	6951	275.00	52
54.00	23	117.00	7602	174.00	950784	279.00	76
55.00	4495	118.00	3836	175.00	65504	281.00	642
56.00	26360	119.00	5922	176.00	907776	283.00	240
57.00	52072	120.00	135	177.00	59440	285.00	257
58.00	2260	121.00	10	178.00	1380	286.00	74
60.00	12386	122.00	115	181.00	188	287.00	53
61.00	70048	123.00	52	184.00	65	289.00	109
62.00	69968	124.00	942	185.00	67	291.00	51
63.00	58376	125.00	451	186.00	156	294.00	87
64.00	4592	126.00	566	188.00	71	298.00	158
65.00	736	127.00	175	190.00	114	300.00	56
67.00	2720	128.00	3868	192.00	481	301.00	94
68.00	143872	129.00	1931	193.00	185	305.00	193
69.00	141248	130.00	3855	196.00	146	306.00	164
70.00	9807	131.00	1829	198.00	83	307.00	60
71.00	429	133.00	790	202.00	340	308.00	89
72.00	4282	134.00	450	203.00	119	312.00	267

Date : 04-AUG-2008 15:03

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0 Operator: ra

Column phase: Column diameter: 0.53

Data File: 7080415.d
Spectrum: Avg. Scans 75-77 (8.13), Background Scan 69
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	50712	135.00	1310	207.00	1171	313.00	57
74.00	212416	136.00	447	208.00	103	314.00	59
75.00	677376	137.00	2346	211.00	295	315.00	163
76.00	55472	138.00	329	212.00	52	317.00	54
77.00	5257	139.00	594	215.00	54	322.00	62
78.00	3697	140.00	1325	216.00	186	323.00	114
79.00	30088	141.00	11903	218.00	237	324.00	51
80.00	7879	142.00	1699	222.00	99	327.00	160
81.00	32848	143.00	11355	224.00	179	328.00	55
82.00	6771	144.00	607	225.00	210	329.00	133
83.00	892	145.00	1114	226.00	135	330.00	66
85.00	316	146.00	1132	227.00	180	333.00	69
86.00	1383	147.00	431	228.00	129	334.00	211
87.00	46008	148.00	2663	229.00	120	335.00	282
88.00	44696	149.00	486	230.00	123	337.00	71
89.00	1261	150.00	1210	233.00	342	345.00	65
90.00	239	151.00	17	234.00	71	346.00	63
91.00	2640	152.00	591	235.00	68	347.00	65
92.00	35208	153.00	557	237.00	53	349.00	54
93.00	58144	154.00	777	239.00	65		
94.00	154176	155.00	2242	240.00	73		

Air Toxics Ltd.

Data file : /chem/msd7.i/7-05aug.b/7080501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 05-AUG-2008 13:20
Operator : ra Inst ID: msd7.i
Smp Info : 2uL #1476-434; BFB Tune Check; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msd7.i/7-05aug.b/bfb105.m
Meth Date : 05-Aug-2008 13:13 ctaylor Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.134	8.232	-0.098	95	1273770			100.00- 100.00	100.00
8.134	8.232	-0.098	50	450230			15.00- 40.00	35.35
8.134	8.232	-0.098	75	658919			30.00- 60.00	51.73
8.134	8.232	-0.098	96	84594			5.00- 9.00	6.64
8.134	8.232	-0.098	173	5961			0.00- 2.00	0.65
8.134	8.232	-0.098	174	923783			50.00- 100.00	72.52
8.134	8.232	-0.098	175	65271			5.00- 9.00	7.07
8.134	8.232	-0.098	176	887157			95.00- 101.00	96.04
8.134	8.232	-0.098	177	56030			5.00- 9.00	6.32

Data File: /chem/msd7.i/7-05aug.b/7080501.d

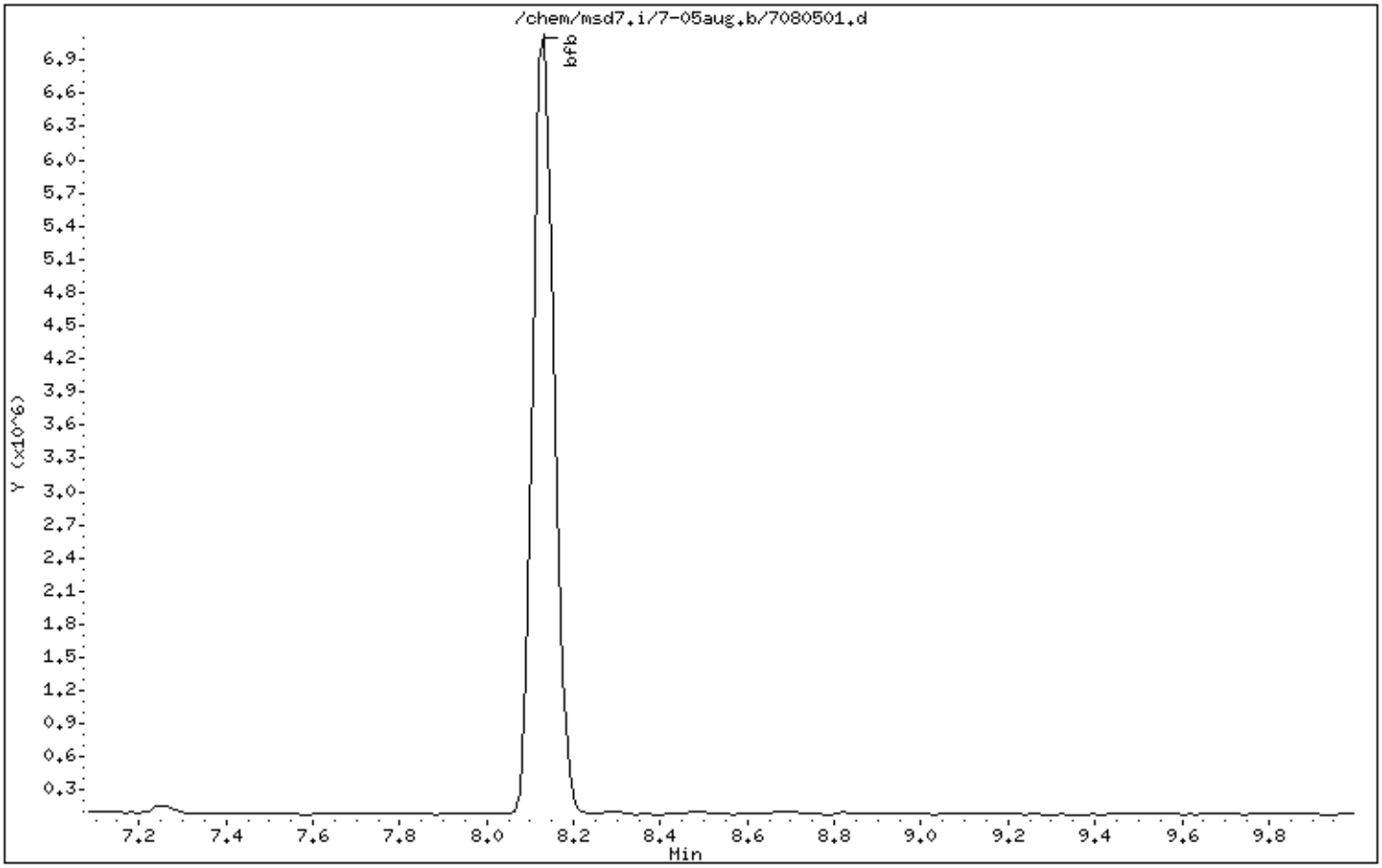
Date : 05-AUG-2008 13:20

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0 Operator: ra

Column phase: Column diameter: 0.53



Data File: /chem/msd7.i/7-05aug.b/7080501.d

Date : 05-AUG-2008 13:20

Client ID: BFB

Instrument: msd7.i

Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

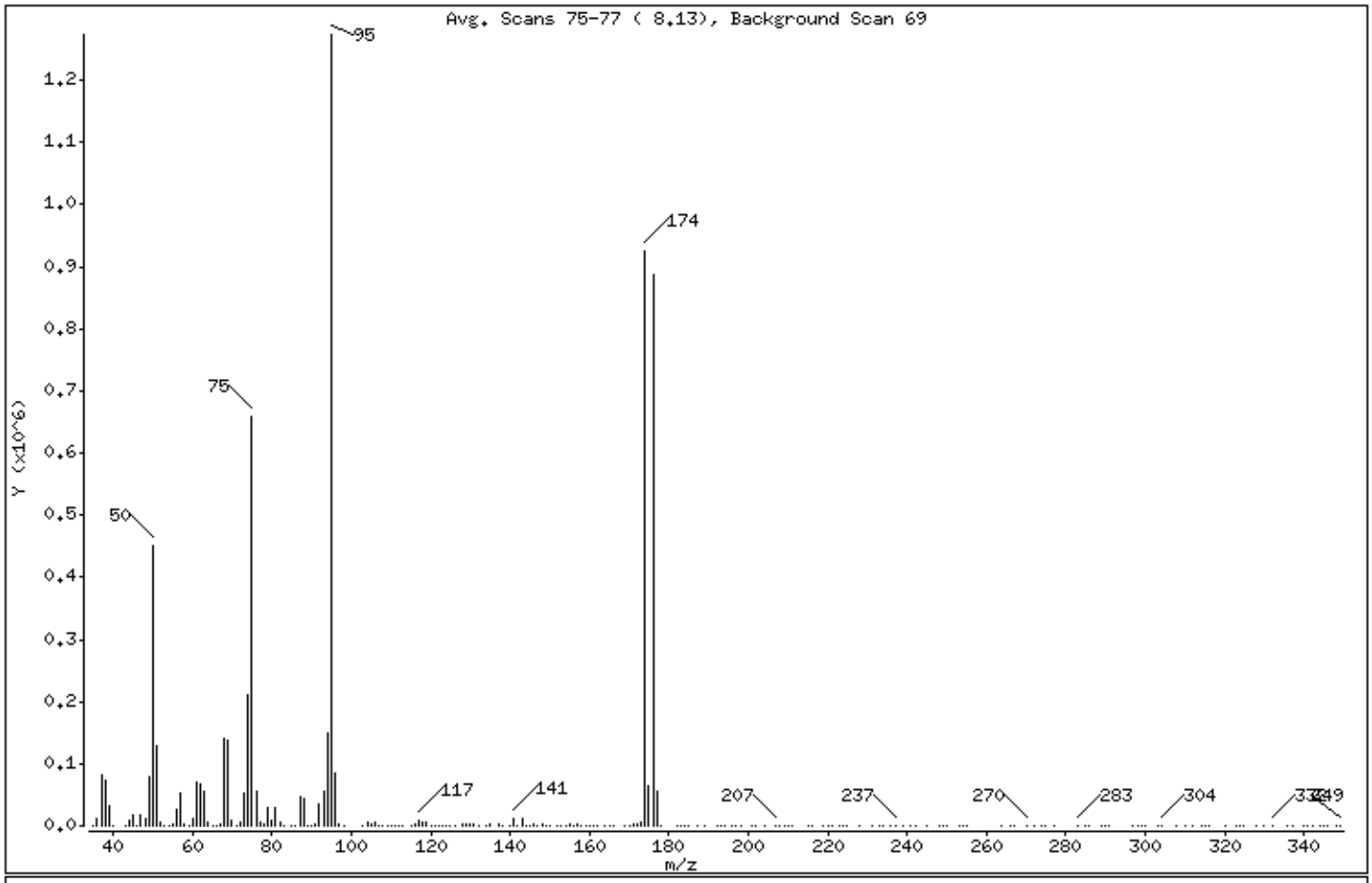
Volume Injected (uL): 2.0

Operator: ra

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	35.35
75	30.00 - 60.00% of mass 95	51.73
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.47 (0.65)
174	50.00 - 100.00% of mass 95	72.52
175	5.00 - 9.00% of mass 174	5.12 (7.07)
176	95.00 - 101.00% of mass 174	69.65 (96.04)
177	5.00 - 9.00% of mass 176	4.40 (6.32)

Date : 05-AUG-2008 13:20

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0 Operator: ra

Column phase: Column diameter: 0.53

Data File: 7080501.d
Spectrum: Avg. Scans 75-77 (8.13), Background Scan 69
Location of Maximum: 95.00
Number of points: 215

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	81	92.00	34832	156.00	599	239.00	79
36.00	12960	93.00	55528	157.00	1472	241.00	217
37.00	81608	94.00	149760	158.00	177	242.00	57
38.00	72128	95.00	1273344	159.00	1176	245.00	53
39.00	31576	96.00	84592	160.00	153	248.00	51
40.00	1155	97.00	1928	161.00	1184	249.00	126
43.00	660	98.00	109	162.00	304	250.00	73
44.00	8210	103.00	585	164.00	9	253.00	40
45.00	17128	104.00	5126	165.00	231	254.00	78
46.00	1274	105.00	1756	166.00	322	255.00	143
47.00	18672	106.00	4971	169.00	792	264.00	91
48.00	10297	107.00	977	170.00	1024	266.00	236
49.00	79320	108.00	530	171.00	1601	267.00	181
50.00	450176	109.00	202	172.00	1799	270.00	364
51.00	128456	110.00	378	173.00	5961	272.00	122
52.00	4744	111.00	862	174.00	923776	274.00	221
53.00	226	112.00	407	175.00	65264	275.00	120
54.00	10	113.00	743	176.00	887104	277.00	63
55.00	3791	115.00	857	177.00	56024	283.00	499
56.00	25824	116.00	3399	178.00	1356	285.00	128
57.00	52248	117.00	8398	182.00	133	286.00	63
58.00	1822	118.00	4415	183.00	182	289.00	84
59.00	180	119.00	6427	184.00	209	290.00	70
60.00	12517	120.00	260	185.00	161	291.00	121
61.00	69912	121.00	186	187.00	154	297.00	79
62.00	68296	122.00	493	189.00	42	298.00	75
63.00	55264	123.00	595	192.00	150	299.00	59
64.00	4431	124.00	814	193.00	500	300.00	63
65.00	497	125.00	114	194.00	192	303.00	76
66.00	172	126.00	981	196.00	288	304.00	216
67.00	3062	128.00	4199	197.00	185	308.00	135
68.00	141504	129.00	1801	198.00	89	310.00	149
69.00	138240	130.00	4269	201.00	77	312.00	121
70.00	9742	131.00	1529	202.00	204	314.00	71
71.00	379	132.00	633	204.00	447	315.00	52

Date : 05-AUG-2008 13:20

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-434; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0 Operator: ra

Column phase: Column diameter: 0.53

Data File: 7080501.d
Spectrum: Avg. Scans 75-77 (8.13), Background Scan 69
Location of Maximum: 95.00
Number of points: 215

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	4771	134.00	174	207.00	1213	316.00	86
73.00	52064	135.00	1690	208.00	482	320.00	54
74.00	210752	137.00	2153	209.00	315	323.00	66
75.00	658880	138.00	52	210.00	363	324.00	69
76.00	54312	140.00	762	211.00	30	325.00	125
77.00	5088	141.00	12086	215.00	52	328.00	66
78.00	2159	142.00	1371	216.00	73	330.00	155
79.00	28376	143.00	11809	219.00	93	332.00	242
80.00	8487	144.00	830	220.00	150	336.00	79
81.00	30544	145.00	701	221.00	173	337.00	53
82.00	5751	146.00	1862	223.00	150	340.00	63
83.00	732	147.00	656	224.00	78	341.00	97
85.00	363	148.00	2574	225.00	59	342.00	32
86.00	476	149.00	1241	228.00	114	344.00	233
87.00	48016	150.00	1326	231.00	175	345.00	15
88.00	42528	152.00	697	233.00	258	346.00	87
89.00	329	153.00	821	234.00	141	348.00	57
90.00	304	154.00	423	236.00	86	349.00	84
91.00	2571	155.00	2735	237.00	339		

Air Toxics Ltd.

Data file : /var/chem/msd7.i/7-24aug.b/7082401.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 24-AUG-2008 08:56
Operator : smd Inst ID: msd7.i
Smp Info : 2uL #1476-434;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msd7.i/7-24aug.b/bfb105.m
Meth Date : 24-Aug-2008 08:47 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.190	8.232	-0.042	95	1019897			100.00- 100.00	100.00
8.190	8.232	-0.042	50	336052			15.00- 40.00	32.95
8.190	8.232	-0.042	75	489809			30.00- 60.00	48.03
8.190	8.232	-0.042	96	67083			5.00- 9.00	6.58
8.190	8.232	-0.042	173	5428			0.00- 1.99	0.74
8.190	8.232	-0.042	174	735954			50.01- 100.00	72.16
8.190	8.232	-0.042	175	50981			5.00- 9.00	6.93
8.190	8.232	-0.042	176	712161			95.01- 100.99	96.77
8.190	8.232	-0.042	177	46250			5.00- 9.00	6.49

Data File: /chem/msd7.i/7-24aug.b/7082401.d

Date : 24-AUG-2008 08:56

Client ID: BFB

Instrument: msd7.i

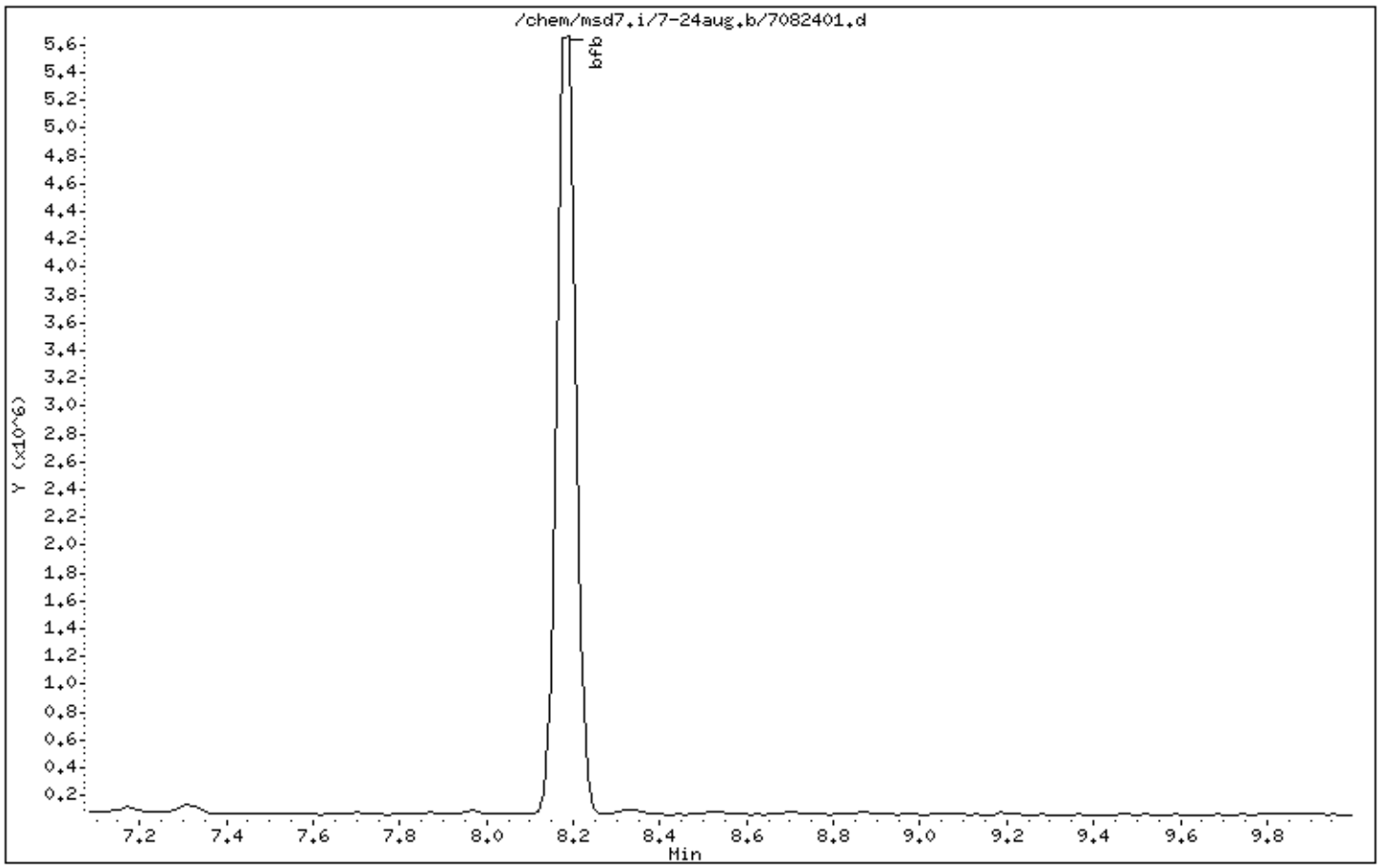
Sample Info: 2uL #1476-434;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53



Data File: /chem/msd7.i/7-24aug.b/7082401.d

Date : 24-AUG-2008 08:56

Client ID: BFB

Instrument: msd7.i

Sample Info: 2uL #1476-434;BFB Tune Check;BFB Tune Check

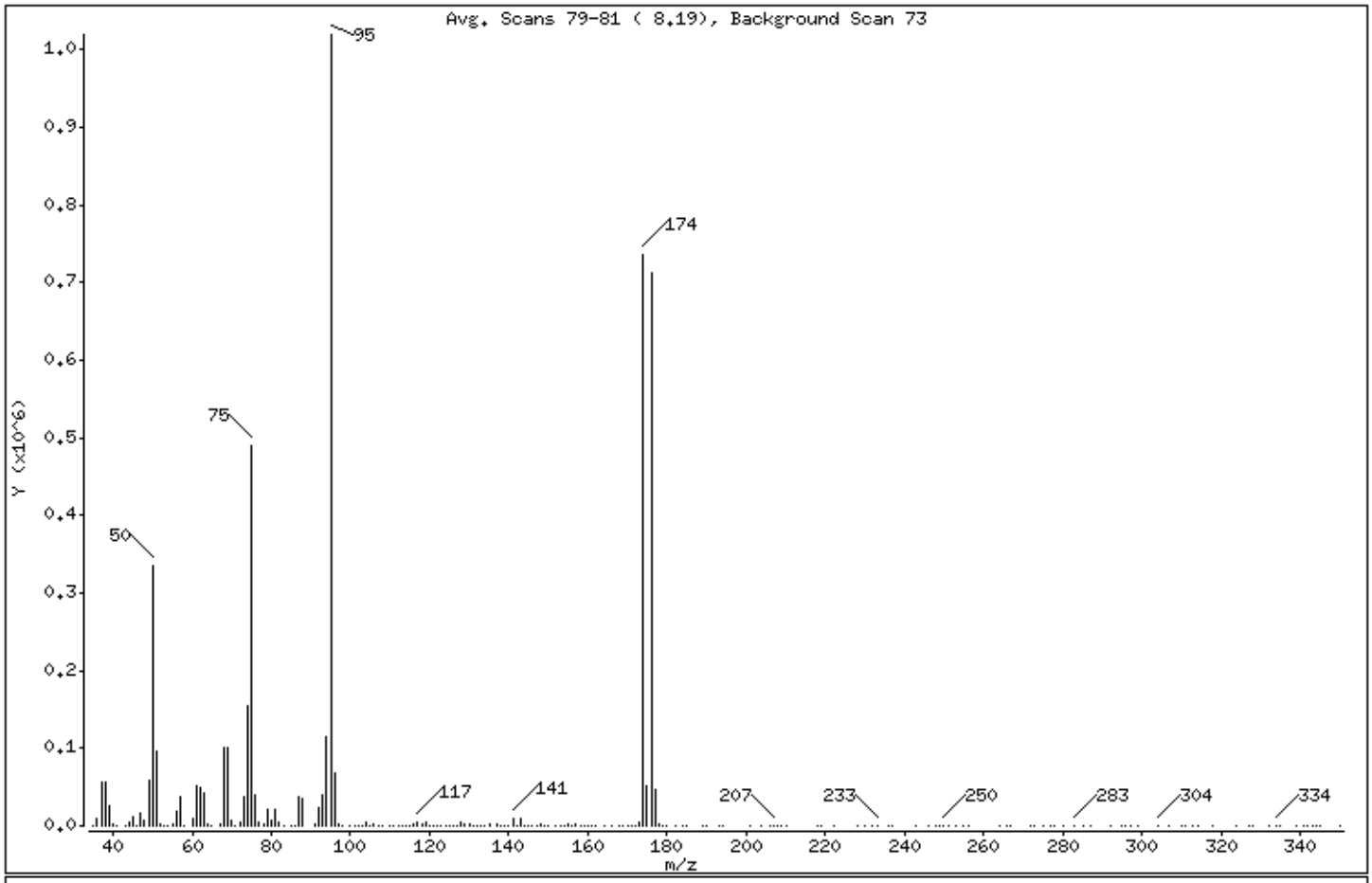
Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	32.95
75	30.00 - 60.00% of mass 95	48.03
96	5.00 - 9.00% of mass 95	6.58
173	Less than 1.99% of mass 174	0.53 (0.74)
174	50.01 - 100.00% of mass 95	72.16
175	5.00 - 9.00% of mass 174	5.00 (6.93)
176	95.01 - 100.99% of mass 174	69.83 (96.77)
177	5.00 - 9.00% of mass 176	4.53 (6.49)

Date : 24-AUG-2008 08:56

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-434;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 7082401.d
Spectrum: Avg. Scans 79-81 (8.19), Background Scan 73
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	57	92.00	24264	146.00	998	233.00	145
36.00	8542	93.00	40296	147.00	404	236.00	59
37.00	57232	94.00	114784	148.00	1850	237.00	143
38.00	56072	95.00	1019840	149.00	614	243.00	65
39.00	24712	96.00	67080	150.00	1059	246.00	93
40.00	1466	97.00	1677	152.00	604	248.00	51
41.00	20	98.00	217	153.00	696	249.00	16
43.00	556	100.00	97	154.00	427	250.00	254
44.00	5270	101.00	157	155.00	1626	251.00	43
45.00	12829	102.00	55	156.00	64	253.00	211
46.00	643	103.00	596	157.00	1330	255.00	94
47.00	16081	104.00	3991	158.00	287	256.00	179
48.00	7216	105.00	1012	159.00	816	264.00	83
49.00	59256	106.00	3043	160.00	54	266.00	64
50.00	336000	107.00	1057	161.00	954	267.00	90
51.00	96392	108.00	150	162.00	138	272.00	70
52.00	3434	110.00	496	164.00	230	273.00	56
53.00	34	111.00	600	166.00	102	275.00	53
54.00	145	112.00	801	168.00	164	277.00	89
55.00	2957	113.00	314	169.00	391	278.00	64
56.00	17800	114.00	97	170.00	915	280.00	55
57.00	38424	115.00	566	171.00	1102	283.00	457
58.00	938	116.00	2909	172.00	1109	285.00	54
60.00	8667	117.00	5300	173.00	5428	287.00	55
61.00	52240	118.00	3093	174.00	735936	292.00	52
62.00	49928	119.00	5044	175.00	50976	295.00	60
63.00	41592	120.00	70	176.00	712128	296.00	52
64.00	3121	121.00	170	177.00	46248	297.00	50
65.00	626	122.00	389	178.00	1574	299.00	50
67.00	2192	123.00	30	179.00	262	304.00	175
68.00	101840	124.00	324	180.00	195	307.00	58
69.00	101752	125.00	57	182.00	64	310.00	64
70.00	6507	126.00	327	184.00	56	311.00	56
71.00	169	127.00	405	185.00	225	313.00	117
72.00	3820	128.00	3846	189.00	75	314.00	71

Date : 24-AUG-2008 08:56

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-434;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 7082401.d
Spectrum: Avg. Scans 79-81 (8.19), Background Scan 73
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	36360	129.00	1328	190.00	182	318.00	128
74.00	153600	130.00	3047	193.00	3	324.00	59
75.00	489792	131.00	880	194.00	92	327.00	64
76.00	39416	132.00	443	201.00	172	328.00	132
77.00	3977	133.00	208	204.00	63	332.00	222
78.00	2920	134.00	381	206.00	83	334.00	363
79.00	20624	135.00	1441	207.00	636	335.00	170
80.00	6553	137.00	1452	208.00	61	339.00	54
81.00	21104	138.00	251	209.00	103	341.00	114
82.00	4317	139.00	421	210.00	68	342.00	114
83.00	429	140.00	523	218.00	67	343.00	205
85.00	213	141.00	8808	219.00	96	344.00	197
86.00	815	142.00	1166	222.00	114	345.00	234
87.00	37640	143.00	8563	228.00	52	350.00	77
88.00	36120	144.00	542	230.00	65		
91.00	3098	145.00	847	232.00	106		

Air Toxics Ltd.

Data file : /var/chem/msd7.i/7-27aug.b/7082701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 27-AUG-2008 08:13
Operator : ra Inst ID: msd7.i
Smp Info : 2uL #1476-476; BFB Tune Check; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msd7.i/7-27aug.b/bfb105.m
Meth Date : 27-Aug-2008 08:04 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.176	8.232	-0.056	95	769421			100.00- 100.00	100.00
8.176	8.232	-0.056	50	274309			15.00- 40.00	35.65
8.176	8.232	-0.056	75	402550			30.00- 60.00	52.32
8.176	8.232	-0.056	96	51505			5.00- 9.00	6.69
8.176	8.232	-0.056	173	3766			0.00- 1.99	0.73
8.176	8.232	-0.056	174	514189			50.01- 100.00	66.83
8.176	8.232	-0.056	175	37573			5.00- 9.00	7.31
8.176	8.232	-0.056	176	493781			95.01- 100.99	96.03
8.176	8.232	-0.056	177	33252			5.00- 9.00	6.73

Data File: /var/chem/msd7.i/7-27aug.b/7082701.d

Page 1

Date : 27-AUG-2008 08:13

Client ID: BFB

Instrument: msd7.i

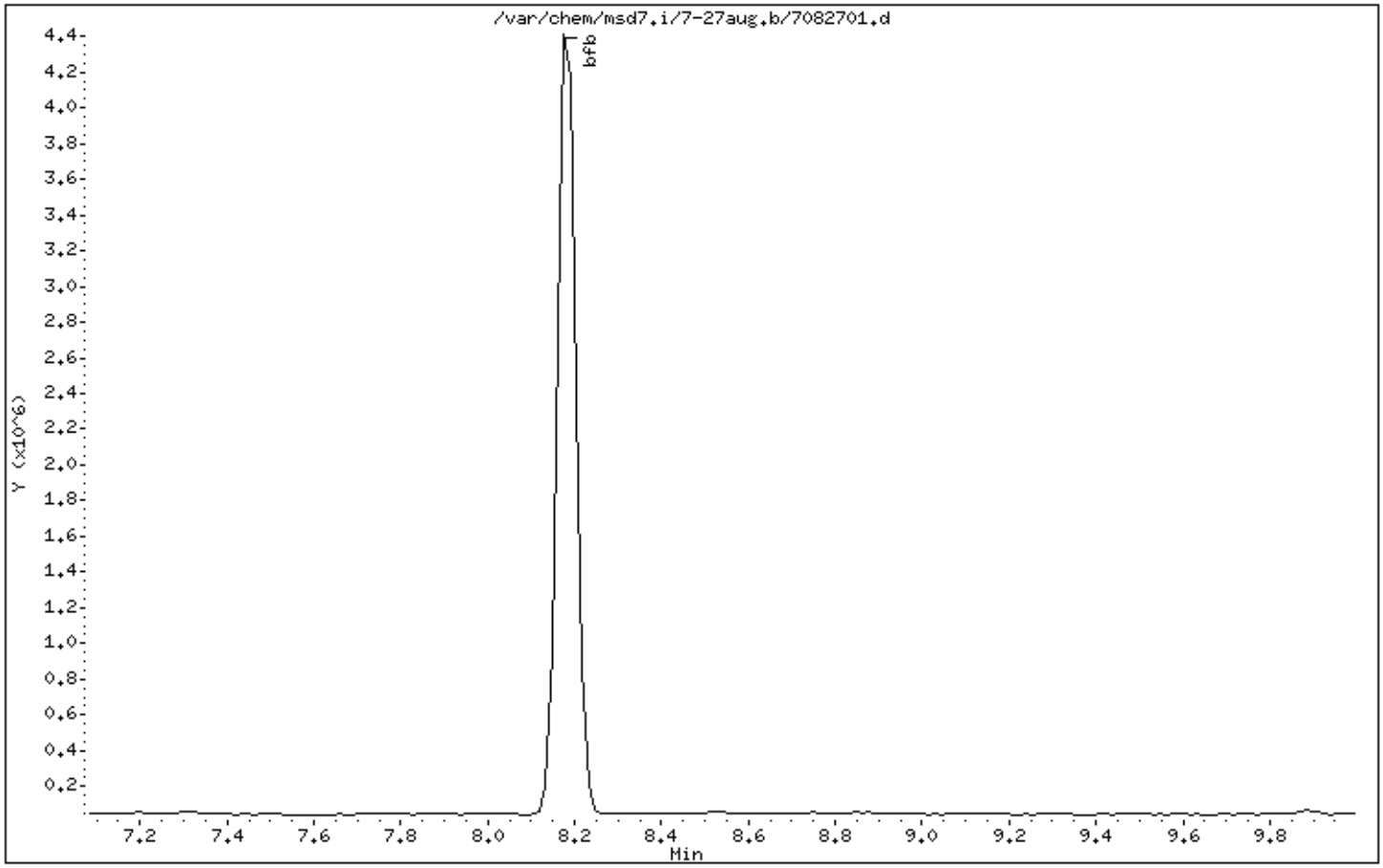
Sample Info: 2uL #1476-476; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0

Operator: ra

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd7.i/7-27aug.b/7082701.d

Date : 27-AUG-2008 08:13

Client ID: BFB

Instrument: msd7.i

Sample Info: 2uL #1476-476; BFB Tune Check; BFB Tune Check

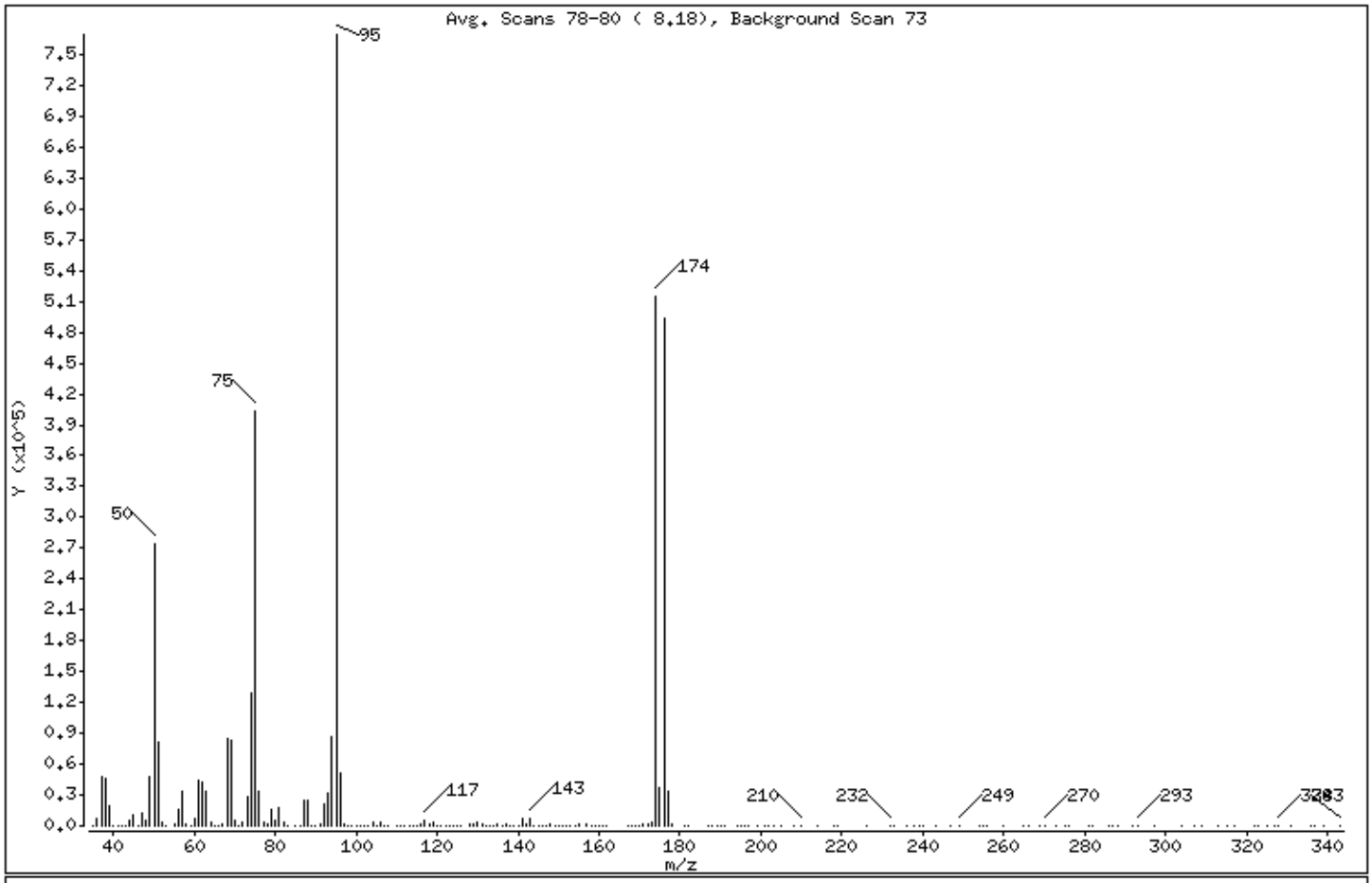
Volume Injected (uL): 2.0

Operator: ra

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	35.65
75	30.00 - 60.00% of mass 95	52.32
96	5.00 - 9.00% of mass 95	6.69
173	Less than 1.99% of mass 174	0.49 (0.73)
174	50.01 - 100.00% of mass 95	66.83
175	5.00 - 9.00% of mass 174	4.88 (7.31)
176	95.01 - 100.99% of mass 174	64.18 (96.03)
177	5.00 - 9.00% of mass 176	4.32 (6.73)

Date : 27-AUG-2008 08:13

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-476; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0 Operator: ra

Column phase: Column diameter: 0.53

Data File: 7082701.d
Spectrum: Avg. Scans 78-80 (8.18), Background Scan 73
Location of Maximum: 95.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	118	88.00	24000	141.00	6270	214.00	53
36.00	7591	89.00	58	142.00	903	218.00	143
37.00	47384	90.00	99	143.00	7237	219.00	322
38.00	46856	91.00	1721	144.00	685	226.00	68
39.00	19352	92.00	21128	145.00	624	232.00	330
40.00	400	93.00	32320	146.00	872	233.00	78
41.00	375	94.00	86104	147.00	218	236.00	112
42.00	223	95.00	769408	148.00	1755	238.00	51
43.00	354	96.00	51504	149.00	535	239.00	60
44.00	4465	97.00	1249	150.00	790	240.00	70
45.00	11126	98.00	135	151.00	302	243.00	86
46.00	302	99.00	69	152.00	434	247.00	87
47.00	12213	100.00	74	153.00	748	249.00	329
48.00	5759	101.00	67	154.00	460	254.00	258
49.00	48024	102.00	60	155.00	1598	255.00	53
50.00	274304	103.00	261	157.00	1319	256.00	77
51.00	80856	104.00	3181	158.00	228	260.00	37
52.00	3507	105.00	479	159.00	631	265.00	243
53.00	25	106.00	2697	160.00	208	266.00	148
55.00	2446	107.00	501	161.00	591	269.00	287
56.00	15112	108.00	150	162.00	41	270.00	370
57.00	33824	110.00	372	167.00	379	273.00	98
58.00	1243	111.00	318	168.00	398	275.00	81
59.00	159	112.00	388	169.00	489	276.00	57
60.00	6710	113.00	273	170.00	396	281.00	27
61.00	43824	114.00	66	171.00	914	282.00	104
62.00	42088	115.00	720	172.00	930	286.00	63
63.00	34256	116.00	2601	173.00	3766	287.00	50
64.00	3040	117.00	4559	174.00	514176	288.00	58
65.00	495	118.00	2354	175.00	37568	292.00	57
66.00	32	119.00	3674	176.00	493760	293.00	69
67.00	1824	120.00	229	177.00	33248	297.00	59
68.00	85584	121.00	167	178.00	1004	304.00	64
69.00	82472	122.00	181	181.00	191	307.00	63
70.00	5560	123.00	487	182.00	126	309.00	53

Date : 27-AUG-2008 08:13

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-476; BFB Tune Check; BFB Tune Check

Volume Injected (uL): 2.0 Operator: ra

Column phase: Column diameter: 0.53

Data File: 7082701.d
Spectrum: Avg. Scans 78-80 (8.18), Background Scan 73
Location of Maximum: 95.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	11	124.00	370	187.00	54	313.00	52
72.00	3543	125.00	131	188.00	51	315.00	56
73.00	28800	126.00	662	189.00	95	317.00	51
74.00	129704	128.00	2596	190.00	53	322.00	60
75.00	402496	129.00	1247	191.00	73	323.00	57
76.00	32928	130.00	2676	194.00	58	325.00	56
77.00	3270	131.00	1205	195.00	76	327.00	101
78.00	2020	132.00	302	196.00	95	328.00	122
79.00	16736	133.00	117	197.00	113	331.00	90
80.00	4721	134.00	58	199.00	52	336.00	62
81.00	16840	135.00	957	201.00	123	337.00	66
82.00	4417	136.00	382	202.00	51	339.00	53
83.00	669	137.00	917	203.00	59	343.00	60
85.00	326	138.00	149	205.00	54		
86.00	423	139.00	352	208.00	78		
87.00	24896	140.00	510	210.00	137		

Air Toxics Ltd.

Data file : /var/chem/msd7.i/7-03sep.b/7090301.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 03-SEP-2008 07:13
Operator : lo Inst ID: msd7.i
Smp Info : 2uL #1476-476;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msd7.i/7-03sep.b/bfb105.m
Meth Date : 03-Sep-2008 07:04 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.176	8.232	-0.056	95	738453			100.00- 100.00	100.00
8.176	8.232	-0.056	50	277849			15.00- 40.00	37.63
8.176	8.232	-0.056	75	396288			30.00- 60.00	53.66
8.176	8.232	-0.056	96	48182			5.00- 9.00	6.52
8.176	8.232	-0.056	173	3508			0.00- 1.99	0.69
8.176	8.232	-0.056	174	512064			50.01- 100.00	69.34
8.176	8.232	-0.056	175	35197			5.00- 9.00	6.87
8.176	8.232	-0.056	176	496230			95.01- 100.99	96.91
8.176	8.232	-0.056	177	31186			5.00- 9.00	6.28

Data File: /var/chem/msd7.i/7-03sep.b/7090301.d

Date : 03-SEP-2008 07:13

Client ID: BFB

Instrument: msd7.i

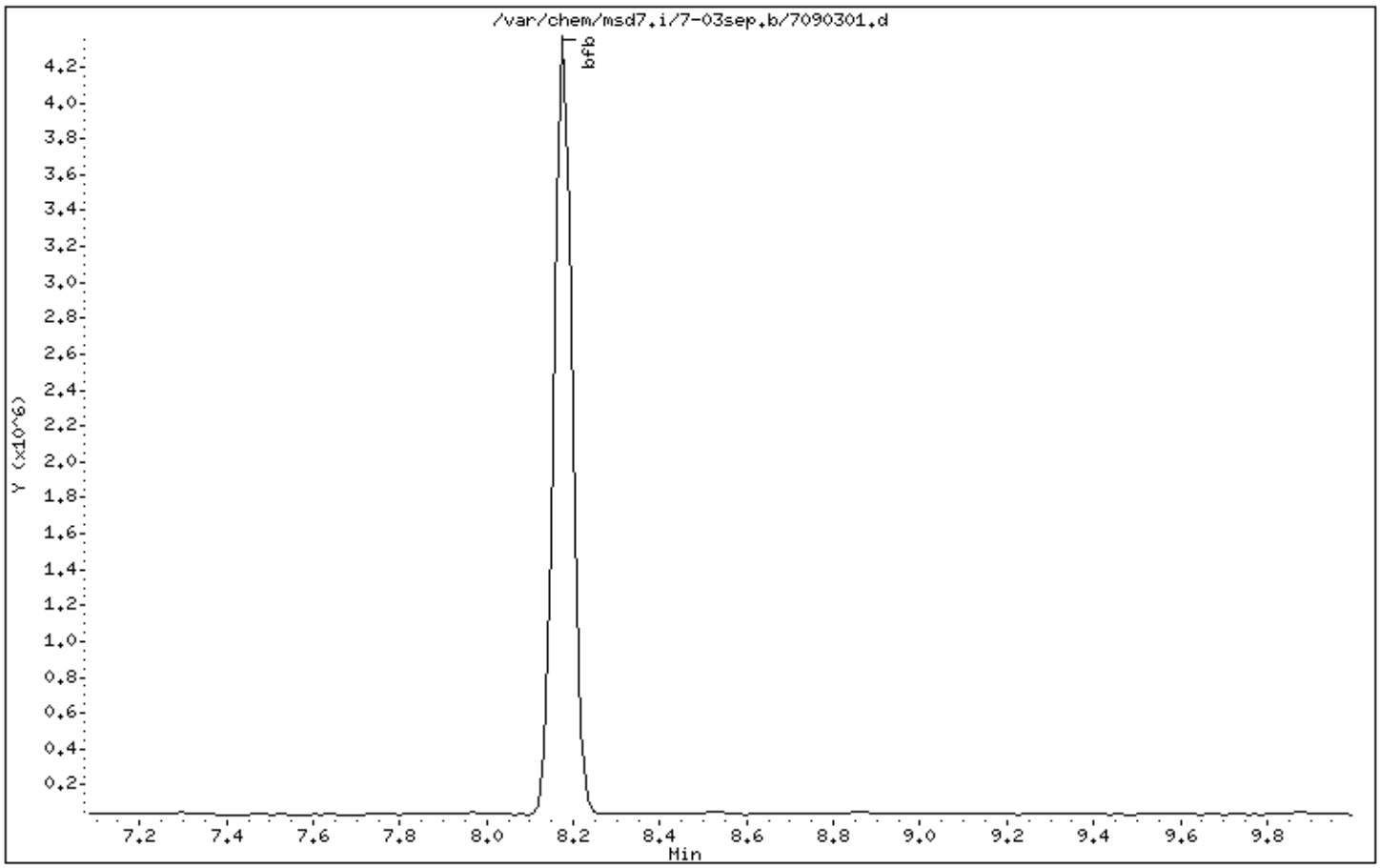
Sample Info: 2uL #1476-476;BFB Tune Check

Volume Injected (uL): 2.0

Operator: lo

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd7.i/7-03sep.b/7090301.d

Date : 03-SEP-2008 07:13

Client ID: BFB

Instrument: msd7.i

Sample Info: 2uL #1476-476;BFB Tune Check

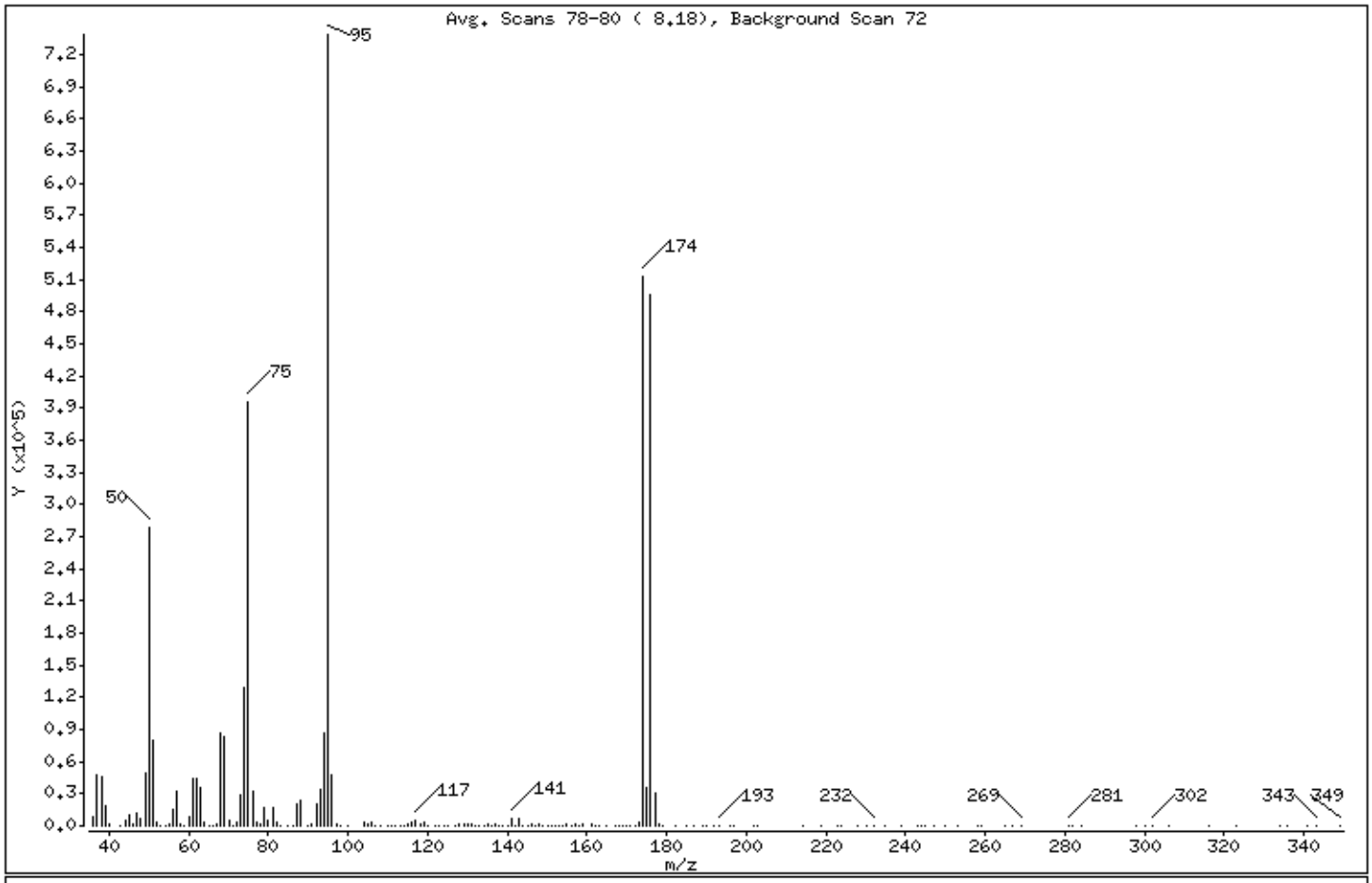
Volume Injected (uL): 2.0

Operator: lo

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	37.63
75	30.00 - 60.00% of mass 95	53.66
96	5.00 - 9.00% of mass 95	6.52
173	Less than 1.99% of mass 174	0.48 (0.69)
174	50.01 - 100.00% of mass 95	69.34
175	5.00 - 9.00% of mass 174	4.77 (6.87)
176	95.01 - 100.99% of mass 174	67.20 (96.91)
177	5.00 - 9.00% of mass 176	4.22 (6.28)

Date : 03-SEP-2008 07:13

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-476;BFB Tune Check

Volume Injected (uL): 2.0 Operator: lo

Column phase: Column diameter: 0.53

Data File: 7090301.d
Spectrum: Avg. Scans 78-80 (8.18), Background Scan 72
Location of Maximum: 95.00
Number of points: 175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8451	82.00	3218	135.00	1118	187.00	58
37.00	47960	83.00	590	136.00	200	189.00	69
38.00	45256	85.00	301	137.00	1185	190.00	101
39.00	19216	86.00	645	138.00	71	192.00	371
40.00	875	87.00	20872	139.00	234	193.00	165
43.00	143	88.00	23128	140.00	428	196.00	150
44.00	5763	90.00	256	141.00	7185	197.00	54
45.00	10288	91.00	2134	142.00	788	202.00	50
46.00	1020	92.00	19912	143.00	7008	203.00	68
47.00	12692	93.00	33184	144.00	493	214.00	92
48.00	5957	94.00	87040	145.00	587	219.00	227
49.00	48872	95.00	738432	146.00	1008	223.00	203
50.00	277824	96.00	48176	147.00	720	224.00	58
51.00	79768	97.00	1268	148.00	1585	228.00	56
52.00	3060	98.00	216	149.00	461	230.00	63
53.00	92	100.00	80	150.00	509	232.00	256
54.00	63	104.00	3107	151.00	26	235.00	71
55.00	2395	105.00	1172	152.00	418	239.00	83
56.00	14775	106.00	2683	153.00	671	243.00	51
57.00	32176	107.00	682	154.00	484	244.00	55
58.00	1485	108.00	32	155.00	1790	245.00	66
59.00	51	110.00	410	156.00	61	247.00	160
60.00	7908	111.00	587	157.00	1069	250.00	52
61.00	43328	112.00	394	158.00	139	253.00	257
62.00	43632	113.00	429	159.00	928	258.00	81
63.00	35664	114.00	62	161.00	947	259.00	134
64.00	2589	115.00	862	162.00	92	265.00	125
65.00	344	116.00	3023	163.00	102	267.00	82
66.00	137	117.00	4596	165.00	155	269.00	586
67.00	1589	118.00	2458	167.00	62	281.00	525
68.00	87248	119.00	3859	168.00	537	282.00	366
69.00	83328	120.00	362	169.00	392	284.00	84
70.00	5265	122.00	102	170.00	532	298.00	53
71.00	476	123.00	97	171.00	654	300.00	51
72.00	3514	124.00	489	172.00	756	302.00	96

Date : 03-SEP-2008 07:13

Client ID: BFB Instrument: msd7.i

Sample Info: 2uL #1476-476;BFB Tune Check

Volume Injected (uL): 2.0 Operator: lo

Column phase: Column diameter: 0.53

Data File: 7090301.d
Spectrum: Avg. Scans 78-80 (8.18), Background Scan 72
Location of Maximum: 95.00
Number of points: 175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	29392	125.00	467	173.00	3508	306.00	58
74.00	128824	127.00	286	174.00	512064	316.00	53
75.00	396288	128.00	2295	175.00	35192	323.00	120
76.00	32056	129.00	1397	176.00	496192	334.00	68
77.00	2997	130.00	2261	177.00	31184	336.00	91
78.00	1525	131.00	1232	178.00	1216	341.00	82
79.00	16960	132.00	147	179.00	20	343.00	305
80.00	5057	133.00	194	182.00	65	349.00	51
81.00	16808	134.00	189	185.00	135		

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. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0808480
# of pages (Including Cover): 1

9/9/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

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

Project Info:

P.O. #

Project # 061140 - 8 - 1708-

Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

☒ Normal

☐ Rush _____

Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
	[redacted]	[redacted]	TO-15 + Naphthalene	[redacted]	[redacted]	
	[redacted]	[redacted]	TO-15 + Naphthalene	[redacted]	[redacted]	
	[redacted]	[redacted]	DO NOT ANALYZE	[redacted]	[redacted]	
01A	DW AMS 4 34450	0543/1345 08/20/08	TO-15 + Naph	-30	-9	
02A	DW AMS3 22107	0545/1345 08/20/08	TO-15 + Naph	-30	-10	

Relinquished By: (Signature) Date/Time [redacted]

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time 1460 Thomas Tang 08/20/08

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time 8/21/08 0915

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

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8635 4458 7115		N/A	Good	Yes No None	0808480

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0808480

Client

Ms. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 09/05/08
Date Completed: 9/4/08
Date Received: 8/21/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 554.00
Logged By: EF

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 4	Modified TO-15	8/20/2008	8.5 "Hg	$225.00
02A	VW AMS3	Modified TO-15	8/20/2008	8.5 "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., Shipment 58432 $100.00
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. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
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	
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	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
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	
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	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0808480

A_1	A_2	R	T	M	Q	
☑	☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		NA ☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
☐	☐	☒	☐	☒	☐	Corrective Action issued - #
N/A ☐	☐	☒	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

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

☑	☐	☒	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☐	☒	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		NA ☒	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		NA ☒	☐			TICs resemble reference spectra
		☒	☐			TICs between duplicate samples are consistent
N/A ☐	☐	☐	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	☐	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		NA ☐		☐		Special units for all samples in the final report are correctly calculated
		☐	☐	☐		Manually entered results checked (i.e. TPH/NMOC)
☑	☐	☒				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☒				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☑	☐	☒				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☑	☐	☒				Final pressure consistent with canister size (6L vs. 1L)
☑	☐	☒				Verify receipt pressures
☑	☐	☒				Verify canister ID #'s
		☒		☐		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: MTBE out ↑

14 day HT

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: RAM 9-4-08	R: C Taylor 9-4-08	RAM 9/4/08	

A_2: T:

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 07/28/08

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

Not Applicable