
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 #: 0807300

	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	26
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)	27	34
b. Surrogate Recover Summary Form (If Applicable)	35	35
c. Internal Standard Summary Form (If Applicable)	36	36
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	37	136
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	137	151
i. Second Source LCS(Summary + Raw Data)	152	166
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	167	168
l. GC/MS Tune (Results + Raw Data)	169	178
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	179	180
b. Chain-of-Custody Records	181	181
c. Sample Log-In Sheet	182	182
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	183	185
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	186	187
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	188	188

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	8/4/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0807300

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:	07/17/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	07/30/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 3	Modified TO-15	9.5 "Hg	5 psi
02A	UW AMS 4	Modified TO-15	10.0 "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: 07/30/08

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: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0807300

Two 6 Liter Summa Canister samples were received on July 17, 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.

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 3	0807300-01A	7/16/2008	7/17/2008	NA	9	7/25/2008	NA	Good
UW AMS 4	0807300-02A	7/16/2008	7/17/2008	NA	9	7/25/2008	NA	Good
Lab Blank	0807300-03A	NA	NA	NA	NA	7/25/2008	NA	Good
CCV	0807300-04A	NA	NA	NA	NA	7/25/2008	NA	Good
LCS	0807300-05A	NA	NA	NA	NA	7/25/2008	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 3

Lab ID#: 0807300-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.98	1.2	3.7	4.4
Acetone	3.9	5.8	9.3	14

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0807300-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072515**	**Date of Collection: 7/16/08**	
Dil. Factor:	**1.96**	**Date of Analysis: 7/25/08 06:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.98	Not Detected	4.8	Not Detected
Freon 114	0.98	Not Detected	6.8	Not Detected
Vinyl Chloride	0.98	Not Detected	2.5	Not Detected
Bromomethane	0.98	Not Detected	3.8	Not Detected
Chloroethane	0.98	Not Detected	2.6	Not Detected
Freon 11	0.98	Not Detected	5.5	Not Detected
1,1-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Freon 113	0.98	Not Detected	7.5	Not Detected
Methylene Chloride	0.98	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.98	Not Detected	4.0	Not Detected
cis-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Chloroform	0.98	Not Detected	4.8	Not Detected
1,1,1-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Carbon Tetrachloride	0.98	Not Detected	6.2	Not Detected
Benzene	0.98	Not Detected	3.1	Not Detected
1,2-Dichloroethane	0.98	Not Detected	4.0	Not Detected
Trichloroethene	0.98	Not Detected	5.3	Not Detected
1,2-Dichloropropane	0.98	Not Detected	4.5	Not Detected
cis-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
Toluene	0.98	1.2	3.7	4.4
trans-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Tetrachloroethene	0.98	Not Detected	6.6	Not Detected
1,2-Dibromoethane (EDB)	0.98	Not Detected	7.5	Not Detected
Chlorobenzene	0.98	Not Detected	4.5	Not Detected
Ethyl Benzene	0.98	Not Detected	4.2	Not Detected
m,p-Xylene	0.98	Not Detected	4.2	Not Detected
o-Xylene	0.98	Not Detected	4.2	Not Detected
Styrene	0.98	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.98	Not Detected	6.7	Not Detected
1,3,5-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,2,4-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,3-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,4-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
alpha-Chlorotoluene	0.98	Not Detected	5.1	Not Detected
1,2-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,3-Butadiene	0.98	Not Detected	2.2	Not Detected
Hexane	0.98	Not Detected	3.4	Not Detected
Cyclohexane	0.98	Not Detected	3.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0807300-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072515**	**Date of Collection: 7/16/08**	
Dil. Factor:	**1.96**	**Date of Analysis: 7/25/08 06:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.98	Not Detected	4.0	Not Detected
Bromodichloromethane	0.98	Not Detected	6.6	Not Detected
Dibromochloromethane	0.98	Not Detected	8.3	Not Detected
Cumene	0.98	Not Detected	4.8	Not Detected
Propylbenzene	0.98	Not Detected	4.8	Not Detected
Chloromethane	3.9	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	3.9	Not Detected	29	Not Detected
Hexachlorobutadiene	3.9	Not Detected	42	Not Detected
Acetone	3.9	5.8	9.3	14
Carbon Disulfide	0.98	Not Detected	3.0	Not Detected
2-Propanol	3.9	Not Detected	9.6	Not Detected
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.98	Not Detected	2.9	Not Detected
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
1,4-Dioxane	3.9	Not Detected	14	Not Detected
4-Methyl-2-pentanone	0.98	Not Detected	4.0	Not Detected
2-Hexanone	3.9	Not Detected	16	Not Detected
Bromoform	0.98	Not Detected	10	Not Detected
4-Ethyltoluene	0.98	Not Detected	4.8	Not Detected
Ethanol	3.9	Not Detected	7.4	Not Detected
Methyl tert-butyl ether	0.98	Not Detected	3.5	Not Detected
3-Chloropropene	3.9	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.98	Not Detected	4.6	Not Detected
Naphthalene	3.9	Not Detected	20	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-25jul.b/7072515.d
Lab Smp Id: 0807300-01A
Inj Date : 25-JUL-2008 18:05
Operator : srs Inst ID: msd7.i
Smp Info : 200mL #33543
Misc Info : 9.5"Hg -> 5psi
Comment :
Method : /chem/msd7.i/7-25jul.b/t14q724a.m
Meth Date : 26-Jul-2008 08:56 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:39 Cal File: 7072412.d
Als bottle: 1
Dil Factor: 1.96000
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	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane						CAS #: 74-97-5		
14.347	14.319 (1.000)	130	315983	25.0000			80.00- 120.00	100.00
14.347	14.319 (1.000)	128	251731				27.57- 127.57	79.67
14.347	14.319 (1.000)	49	1019508				397.19- 497.19	322.65
* 97 1,4-Difluorobenzene						CAS #: 540-36-3		
16.117	16.089 (1.000)	114	1151324	25.0000			80.00- 120.00	100.00
16.117	16.089 (1.000)	88	179946				0.00- 65.47	15.63
* 126 Chlorobenzene-d5						CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1011225	25.0000			80.00- 120.00	100.00
21.315	21.315 (1.000)	82	595373				7.70- 107.70	58.88
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
15.426	15.425 (1.075)	65	717998	25.3781	25.378		80.00- 120.00	100.00
15.426	15.425 (1.075)	67	308665				0.00- 97.26	42.99
$ 113 Toluene-d8						CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1046618	23.5303	23.530		80.00- 120.00	100.00
18.716	18.716 (1.161)	70	153129				0.00- 64.06	14.63

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	709806			17.06- 117.06	67.82
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	606907	25.2619	25.262	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	839608			87.81- 187.81	138.34
23.278	23.278 (1.092)	176	570555			47.99- 147.99	94.01
45 Acetone					CAS #: 67-64-1		
10.449	10.421 (0.728)	58	60986	2.96023	5.802	80.00- 120.00	100.00
10.449	10.421 (0.728)	43	256342			337.38- 437.38	420.33
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.168)	91	43067	0.59772	1.172	80.00- 120.00	100.00
18.826	18.826 (1.168)	92	28908			11.78- 111.78	67.12

Report Date: 30-Jul-2008 09:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072515.d
Lab Smp Id: 0807300-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: 9.5"Hg -> 5psi

Calibration Date: 25-JUL-2008
Calibration Time: 08:46

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	379144	227486	530802	315983	-16.66
97 1,4-Difluorobenze	1330831	798499	1863163	1151324	-13.49
126 Chlorobenzene-d5	1248438	749063	1747813	1011225	-19.00

		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	16.12	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.

Report Date: 30-Jul-2008 09:52

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-25jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807300-01A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: 9.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	25.378	101.51	70-130
$ 113 Toluene-d8	25.000	23.530	94.12	70-130
$ 137 Bromofluorobenzene	25.000	25.262	101.05	70-130

Data File: /chem/msd7.i/7-25jul.b/7072515.d

Date : 25-JUL-2008 18:05

Client ID:

Sample Info: 200mL #33543

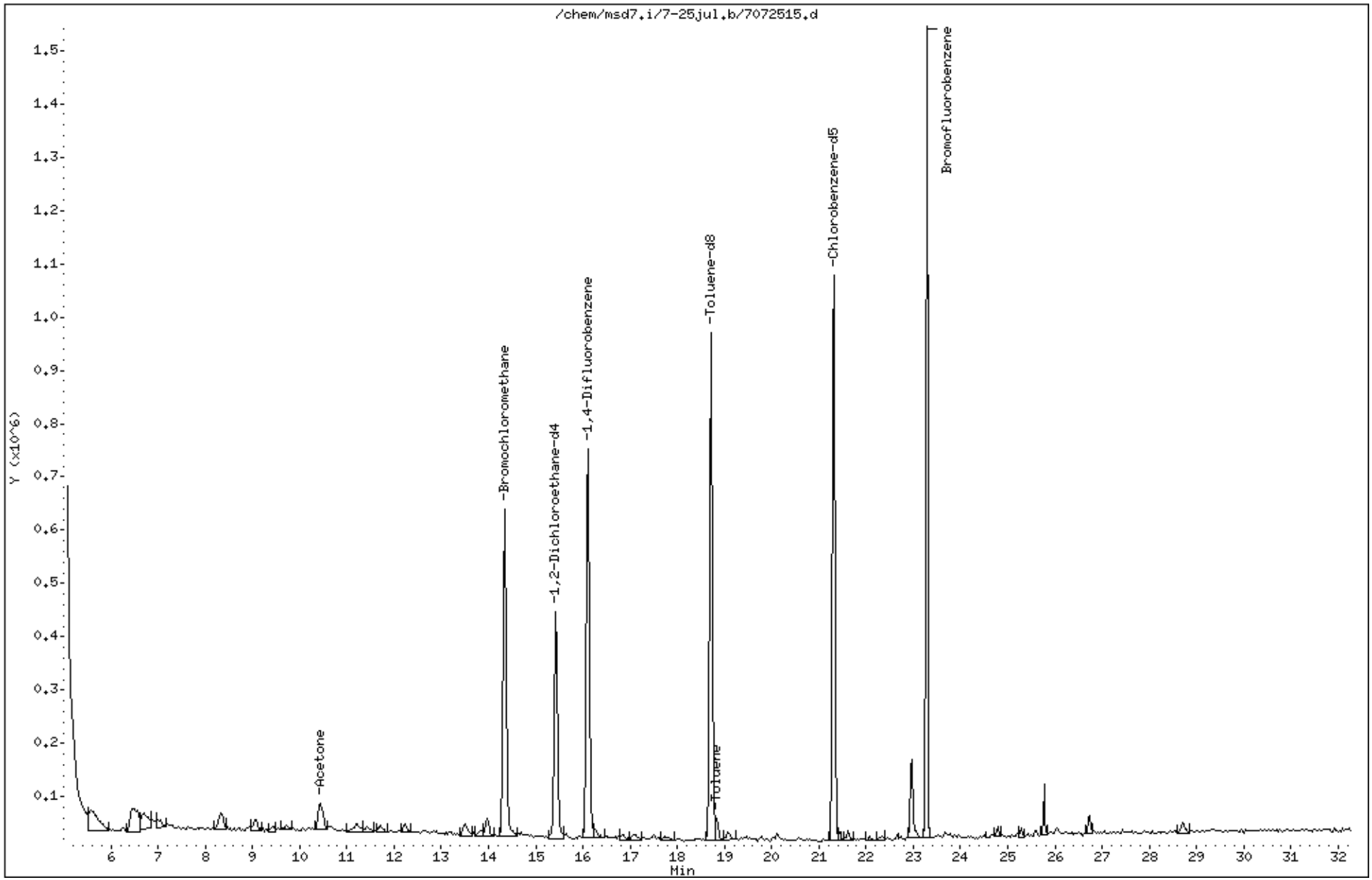
Column phase: RTx-624

Instrument: msd7.i

Operator: srs

Column diameter: 0.53

0013



Data File: /chem/msd7.i/7-25jul.b/7072515.d

Date : 25-JUL-2008 18:05

Client ID:

Instrument: msd7.i

Sample Info: 200mL #33543

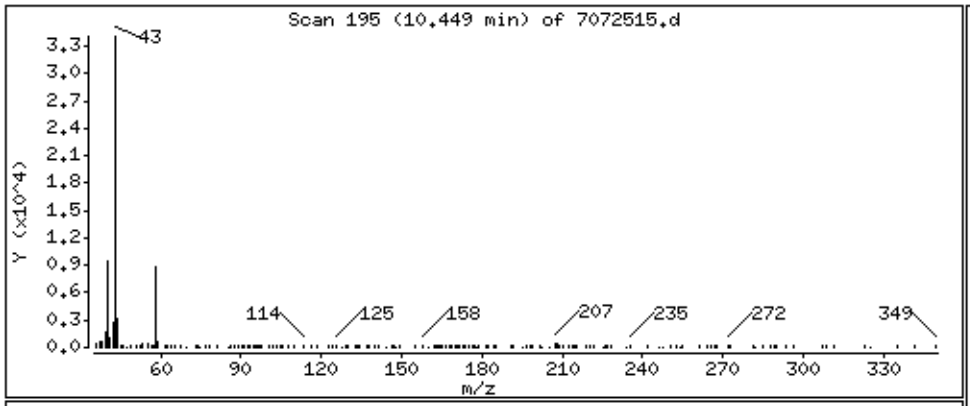
Operator: srs

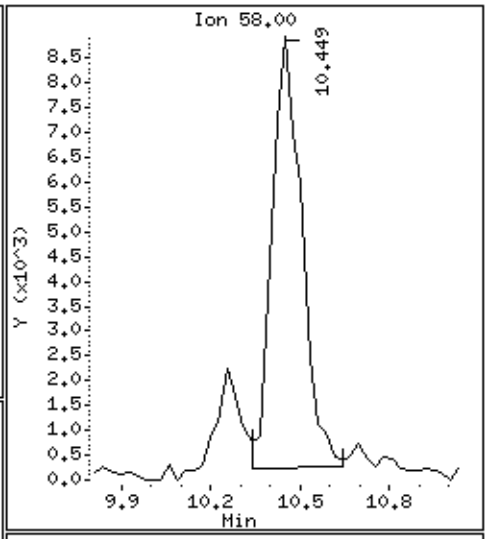
Column phase: RTx-624

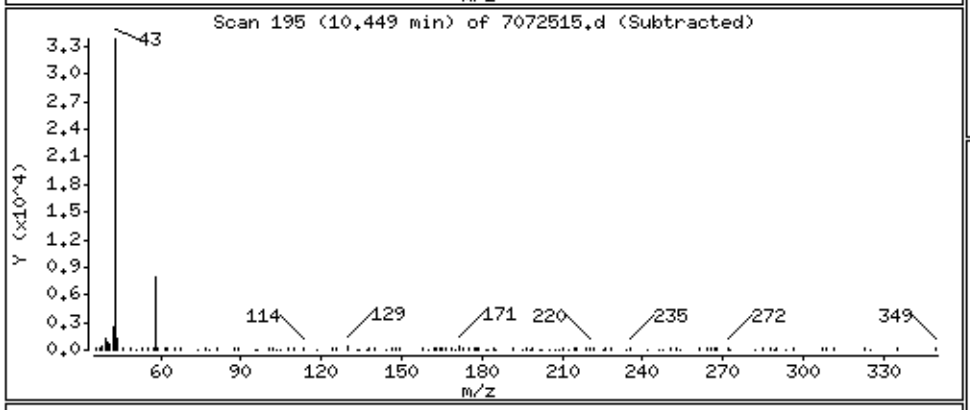
Column diameter: 0.53

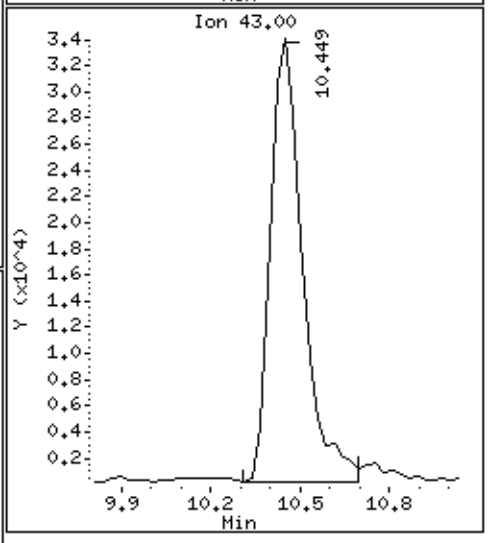
45 Acetone

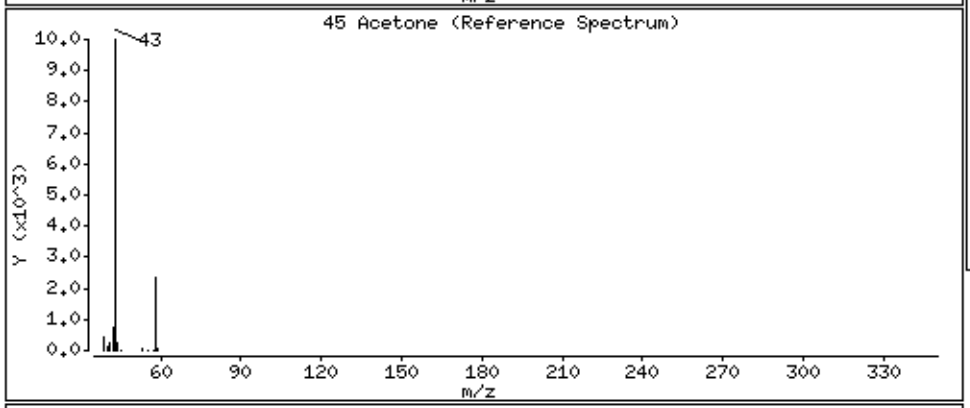
Concentration: 5.802 PPBV

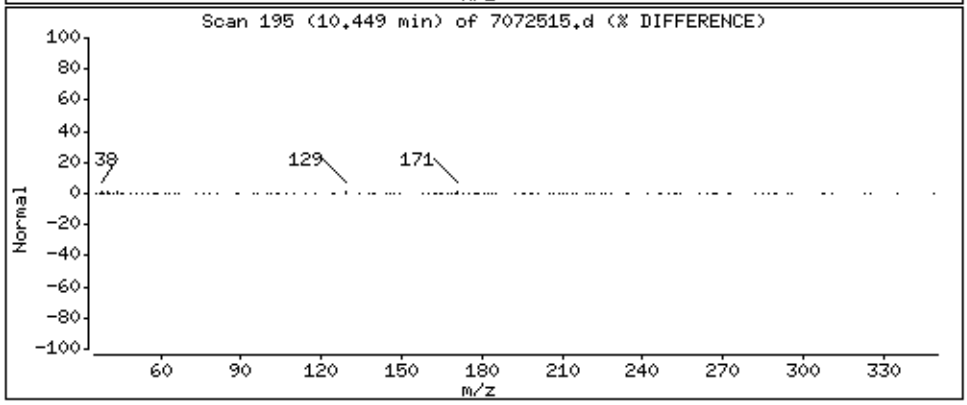












Data File: /chem/msd7.i/7-25jul.b/7072515.d

Date : 25-JUL-2008 18:05

Client ID:

Instrument: msd7.i

Sample Info: 200mL #33543

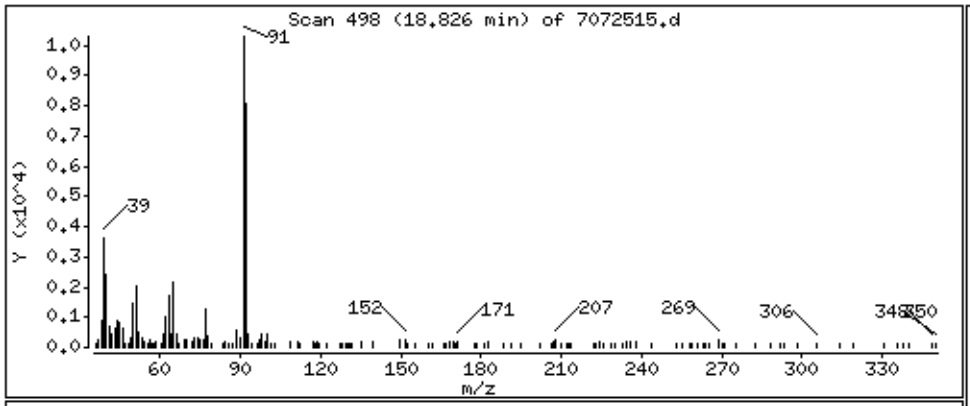
Operator: srs

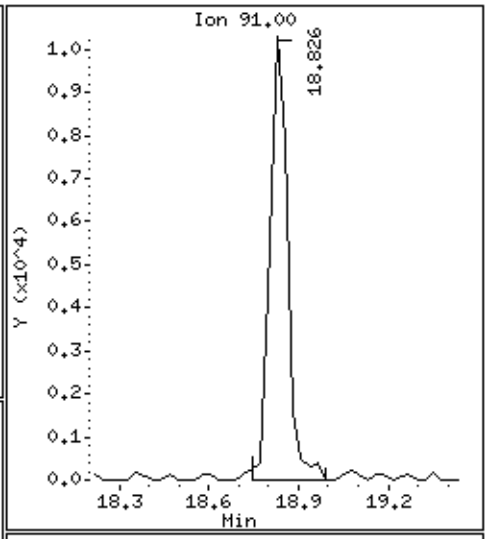
Column phase: RTx-624

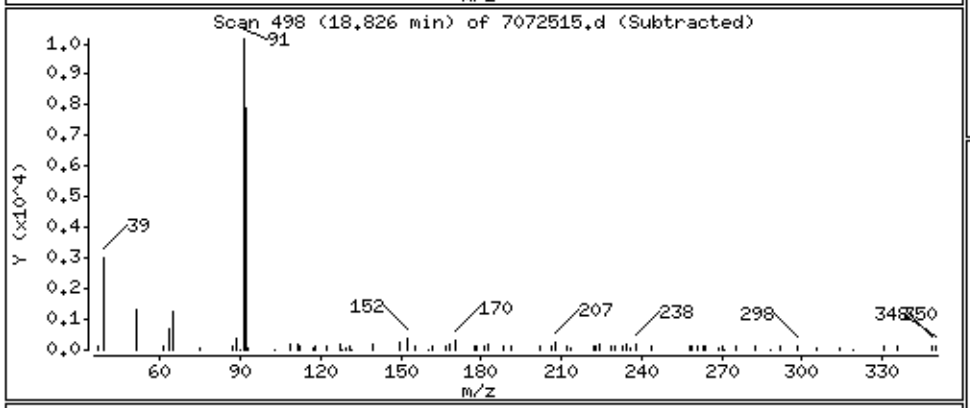
Column diameter: 0.53

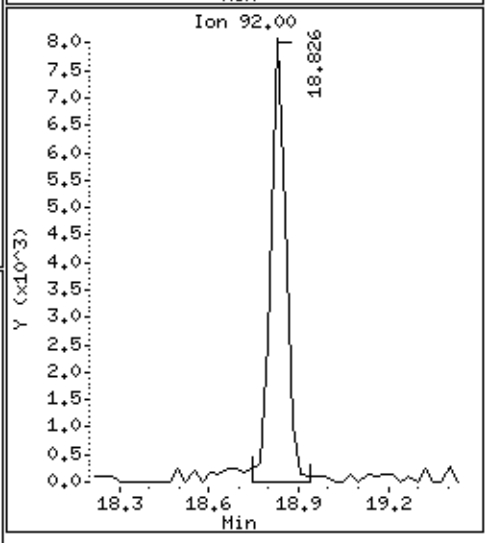
114 Toluene

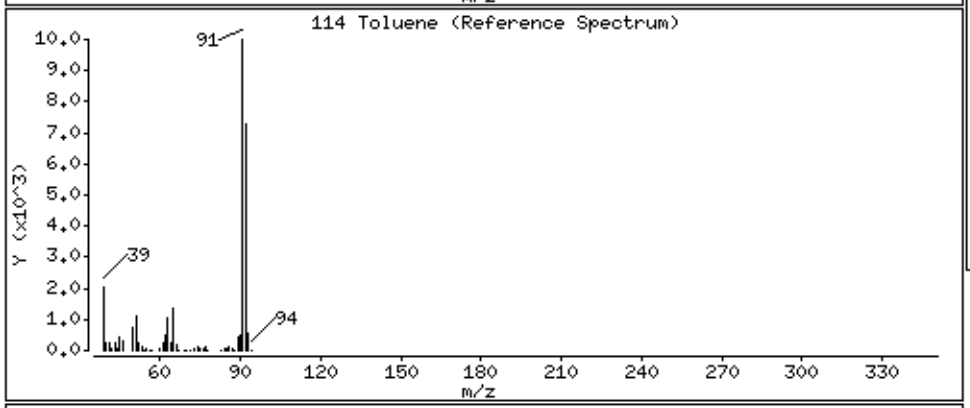
Concentration: 1.172 PPBV

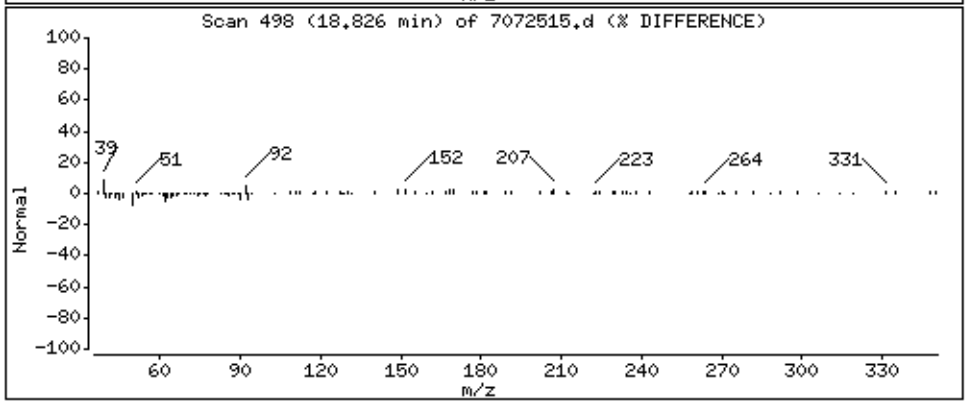












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 4

Lab ID#: 0807300-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.0	1.1	3.8	4.3
Acetone	4.0	7.6	9.5	18
2-Butanone (Methyl Ethyl Ketone)	1.0	1.0	3.0	3.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 4

Lab ID#: 0807300-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072516**	**Date of Collection: 7/16/08**	
Dil. Factor:	**2.01**	**Date of Analysis: 7/25/08 06:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 114	1.0	Not Detected	7.0	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	1.0	Not Detected	2.6	Not Detected
Freon 11	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.3	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Toluene	1.0	1.1	3.8	4.3
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	Not Detected	6.8	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.7	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Hexane	1.0	Not Detected	3.5	Not Detected
Cyclohexane	1.0	Not Detected	3.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 4

Lab ID#: 0807300-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072516**	**Date of Collection: 7/16/08**	
Dil. Factor:	**2.01**	**Date of Analysis: 7/25/08 06:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.0	Not Detected	4.1	Not Detected
Bromodichloromethane	1.0	Not Detected	6.7	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Cumene	1.0	Not Detected	4.9	Not Detected
Propylbenzene	1.0	Not Detected	4.9	Not Detected
Chloromethane	4.0	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Acetone	4.0	7.6	9.5	18
Carbon Disulfide	1.0	Not Detected	3.1	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	1.0	3.0	3.0
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
4-Ethyltoluene	1.0	Not Detected	4.9	Not Detected
Ethanol	4.0	Not Detected	7.6	Not Detected
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected
3-Chloropropene	4.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Naphthalene	4.0	Not Detected	21	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-25jul.b/7072516.d
Lab Smp Id: 0807300-02A
Inj Date : 25-JUL-2008 18:53
Operator : srs Inst ID: msd7.i
Smp Info : 200mL #34736
Misc Info : 10.0"Hg -> 5psi
Comment :
Method : /chem/msd7.i/7-25jul.b/t14q724a.m
Meth Date : 26-Jul-2008 08:56 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:39 Cal File: 7072412.d
Als bottle: 1
Dil Factor: 2.01000
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	14.319 (1.000)	130	334734	25.0000			80.00- 120.00	100.00
14.347	14.319 (1.000)	128	258561				27.57- 127.57	77.24
14.320	14.319 (1.000)	49	1057996				397.19- 497.19	316.07
* 97 1,4-Difluorobenzene						CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1178389	25.0000			80.00- 120.00	100.00
16.089	16.089 (1.000)	88	184950				0.00- 65.47	15.70
* 126 Chlorobenzene-d5						CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1036914	25.0000			80.00- 120.00	100.00
21.287	21.315 (1.000)	82	604020				7.70- 107.70	58.25
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	774073	25.8275	25.827		80.00- 120.00	100.00
15.425	15.425 (1.075)	67	333881				0.00- 97.26	43.13
$ 113 Toluene-d8						CAS #: 2037-26-5		
18.716	18.716 (1.163)	98	1102218	24.2112	24.211		80.00- 120.00	100.00
18.688	18.716 (1.162)	70	154679				0.00- 64.06	14.03

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 (1.163)	100	747211			17.06- 117.06	67.79
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	605496	24.5787	24.579	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	855519			87.81- 187.81	141.29
23.278	23.278 (1.092)	176	578186			47.99- 147.99	95.49
45 Acetone					CAS #: 67-64-1		
10.449	10.421 (0.728)	58	82904	3.79869	7.635	80.00- 120.00	100.00
10.449	10.421 (0.728)	43	343214			337.38- 437.38	413.99
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	6210	0.51575	1.037	80.00- 120.00	100.00
13.822	13.822 (0.963)	43	44501			706.01- 806.01	716.60
13.822	13.822 (0.963)	57	5151			11.32- 111.32	82.95
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.170)	91	41607	0.56420	1.134	80.00- 120.00	100.00
18.826	18.826 (1.170)	92	22063			11.78- 111.78	53.03

Report Date: 30-Jul-2008 09:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072516.d
Lab Smp Id: 0807300-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: 10.0"Hg -> 5psi

Calibration Date: 25-JUL-2008
Calibration Time: 08:46
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	379144	227486	530802	334734	-11.71
97 1,4-Difluorobenze	1330831	798499	1863163	1178389	-11.45
126 Chlorobenzene-d5	1248438	749063	1747813	1036914	-16.94

		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.

Report Date: 30-Jul-2008 09:53

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-25jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807300-02A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: 10.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	25.827	103.31	70-130
$ 113 Toluene-d8	25.000	24.211	96.84	70-130
$ 137 Bromofluorobenzene	25.000	24.579	98.31	70-130

0023

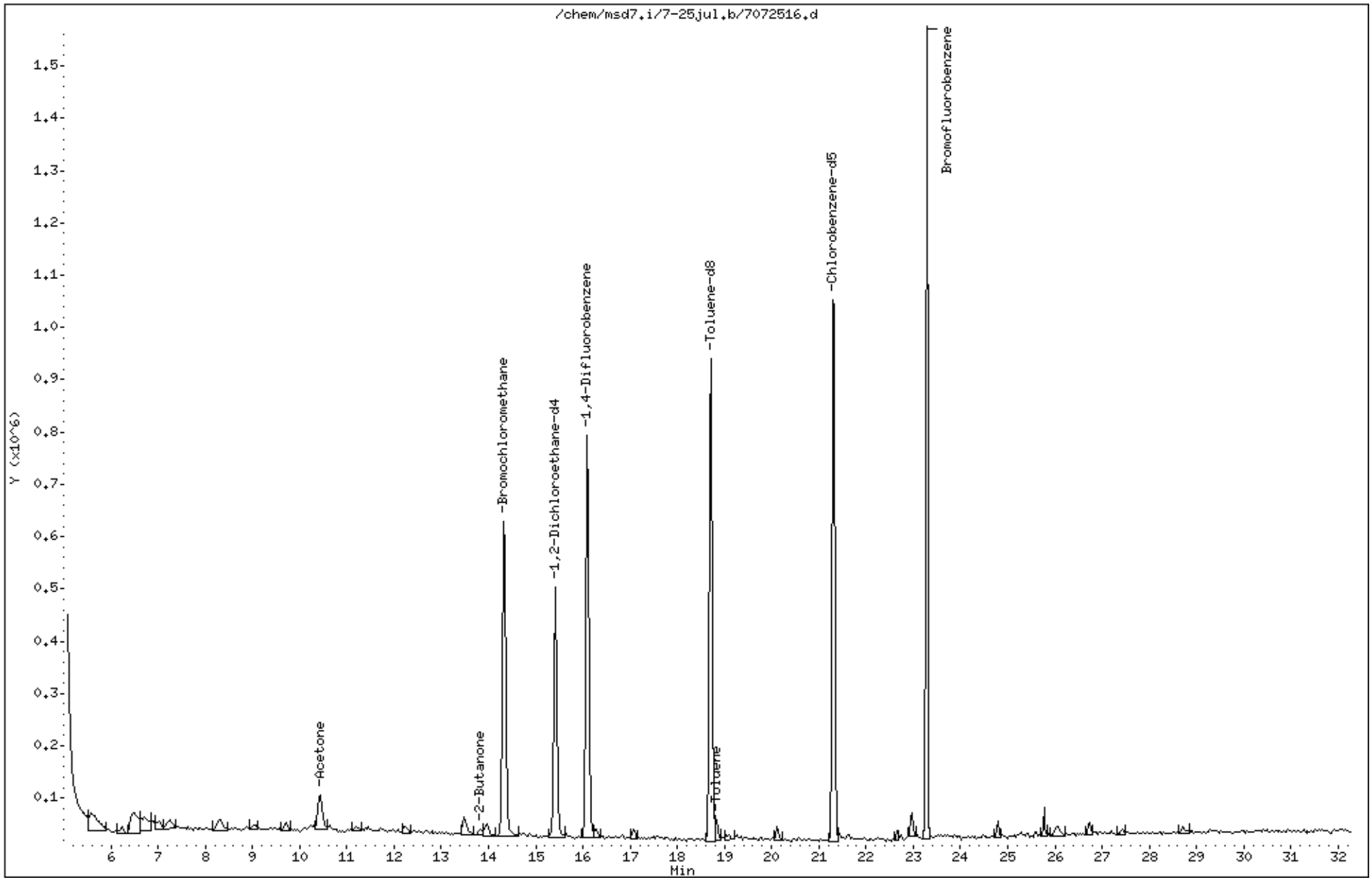
Data File: /chem/msd7.i/7-25jul.b/7072516.d
Date : 25-JUL-2008 18:53
Client ID:
Sample Info: 200mL #34736

Instrument: msd7.i

Operator: srs

Column phase: RTx-624

Column diameter: 0.53



Data File: /chem/msd7.i/7-25jul.b/7072516.d

Date : 25-JUL-2008 18:53

Client ID:

Instrument: msd7.i

Sample Info: 200mL #34736

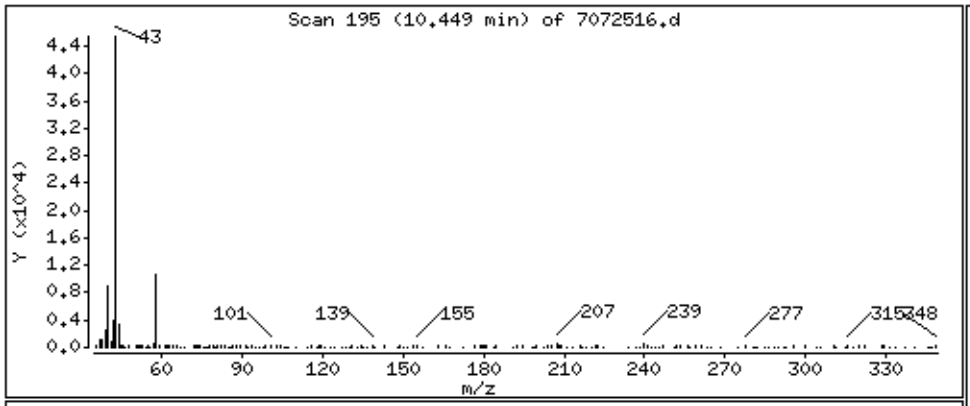
Operator: srs

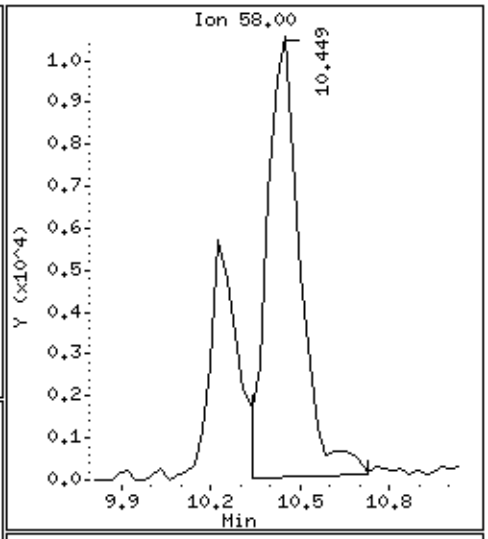
Column phase: RTx-624

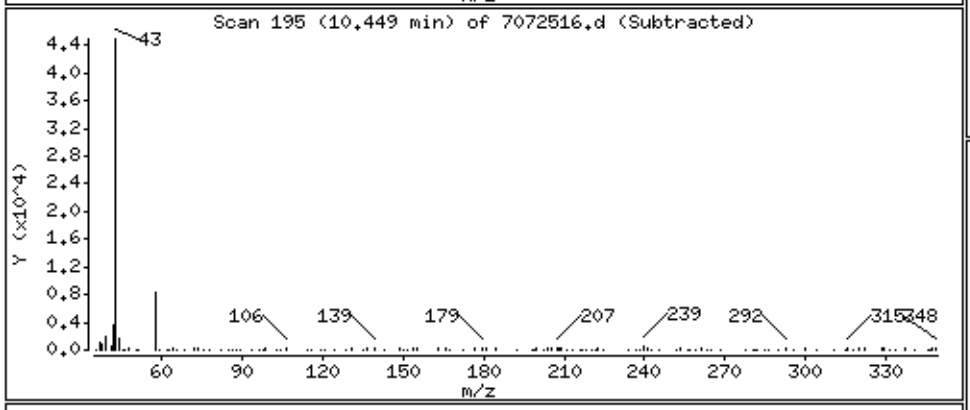
Column diameter: 0.53

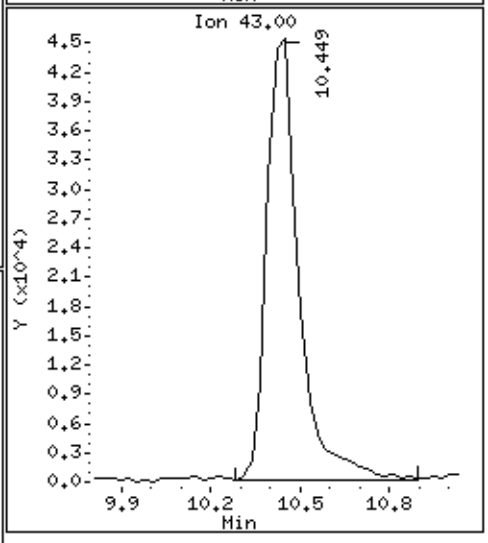
45 Acetone

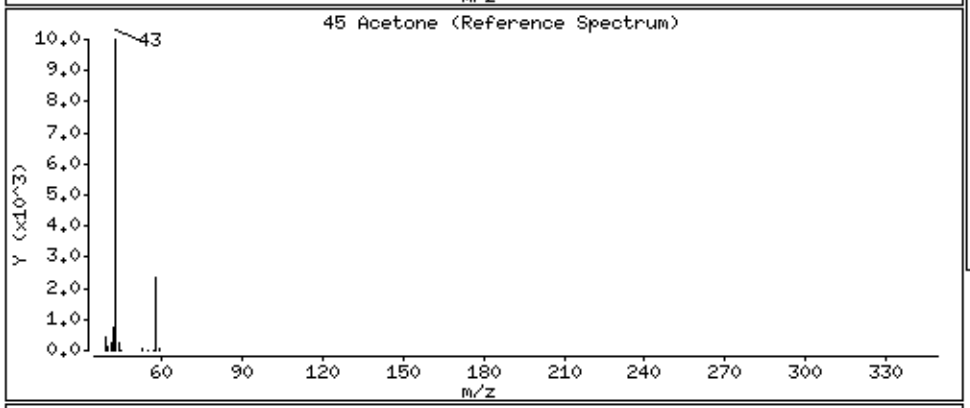
Concentration: 7.635 PPBV

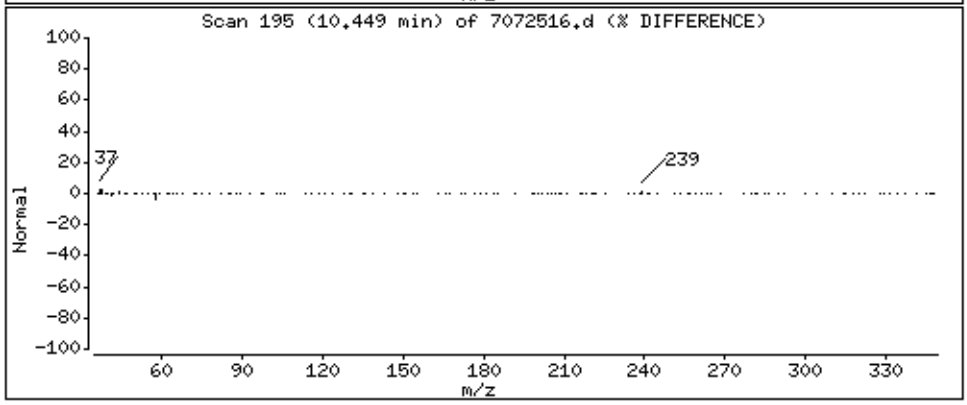












Data File: /chem/msd7.i/7-25jul.b/7072516.d

Date : 25-JUL-2008 18:53

Client ID:

Instrument: msd7.i

Sample Info: 200mL #34736

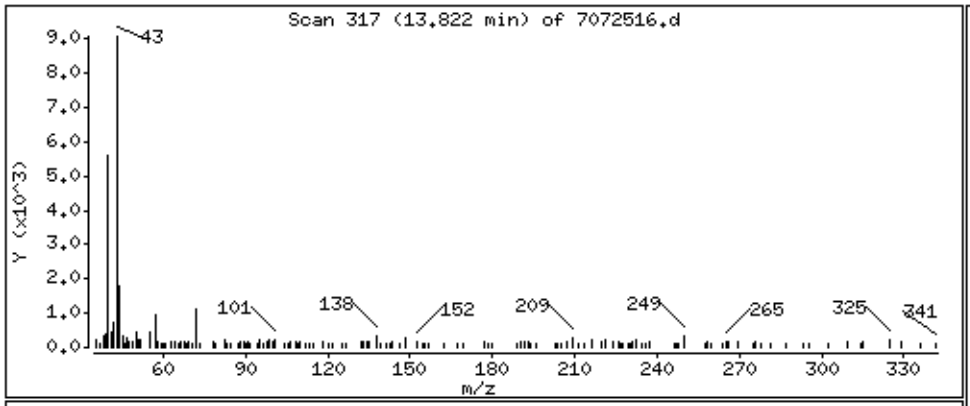
Operator: srs

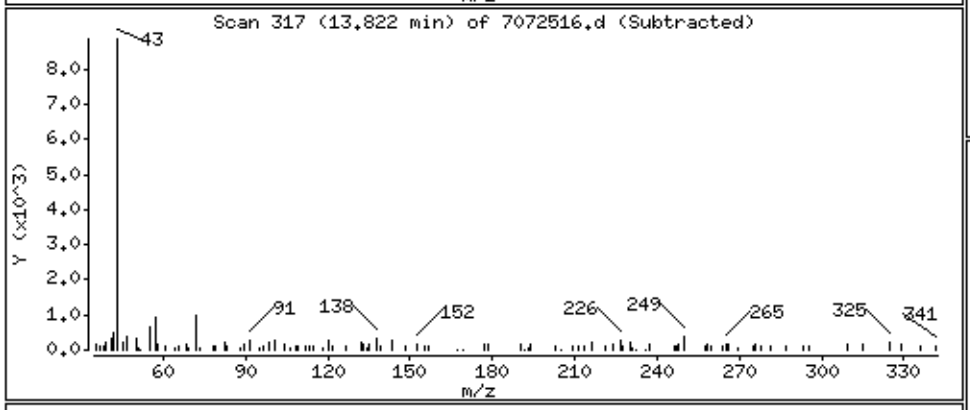
Column phase: RTx-624

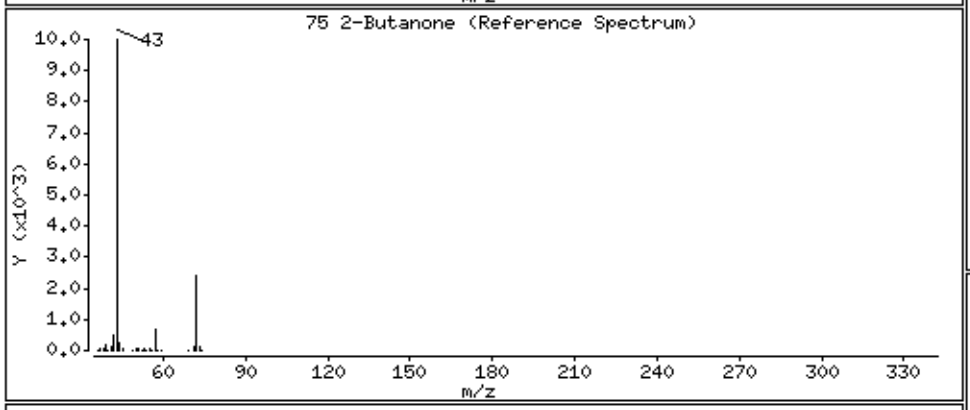
Column diameter: 0.53

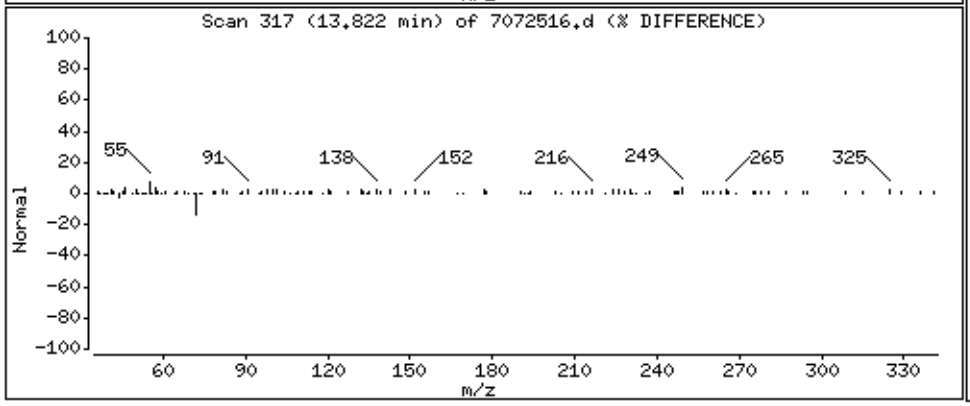
75 2-Butanone

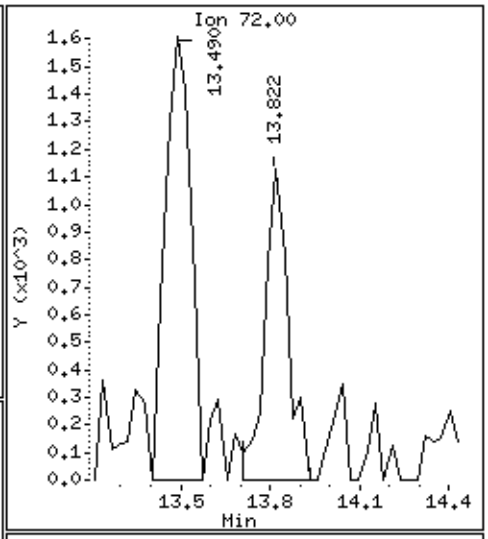
Concentration: 1.037 PPBV

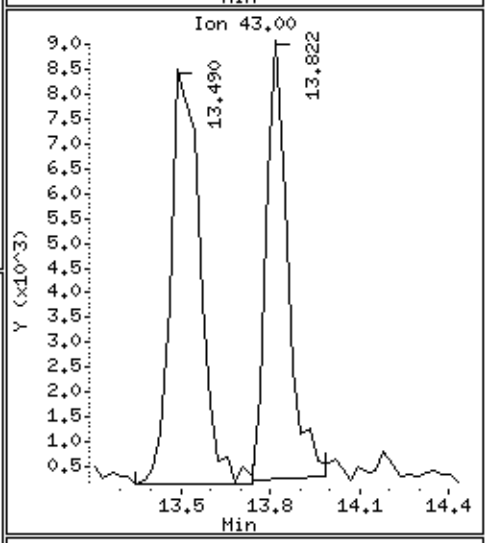


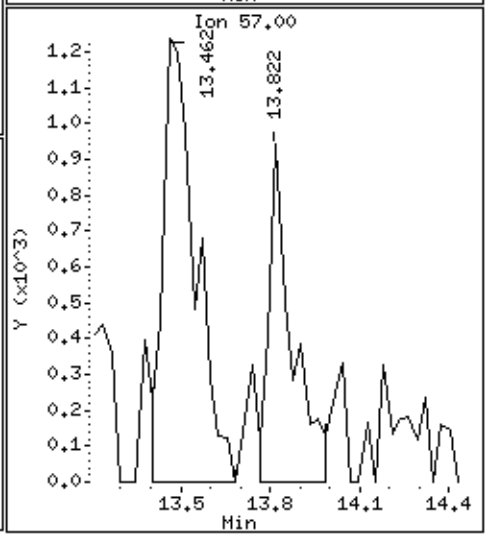












Data File: /chem/msd7.i/7-25jul.b/7072516.d

Date : 25-JUL-2008 18:53

Client ID:

Instrument: msd7.i

Sample Info: 200mL #34736

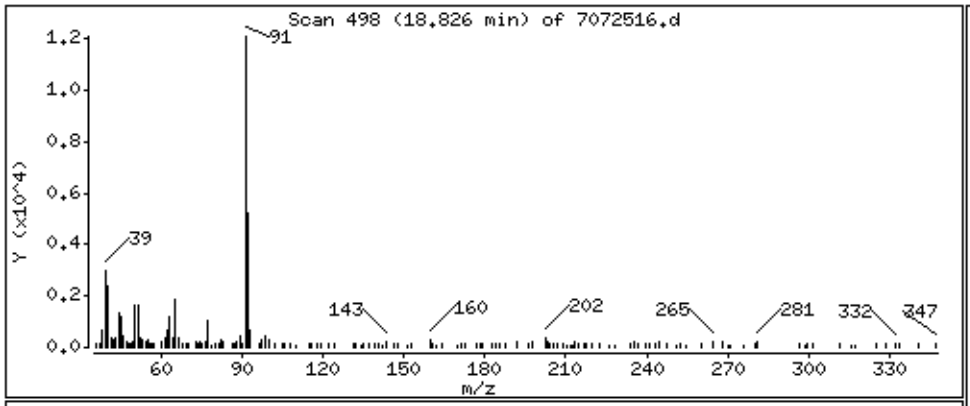
Operator: srs

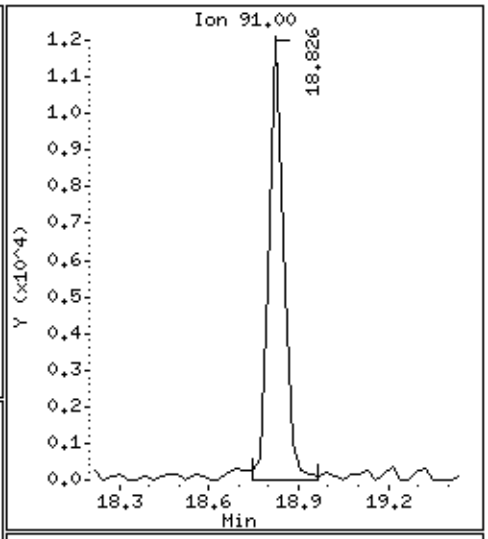
Column phase: RTx-624

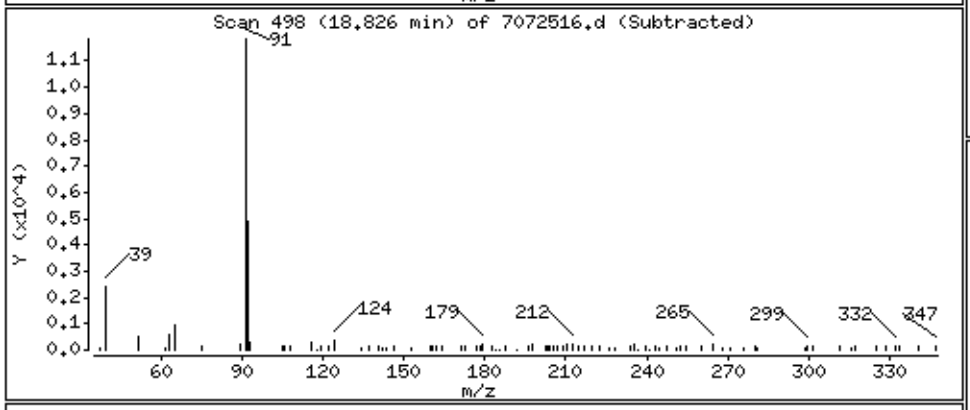
Column diameter: 0.53

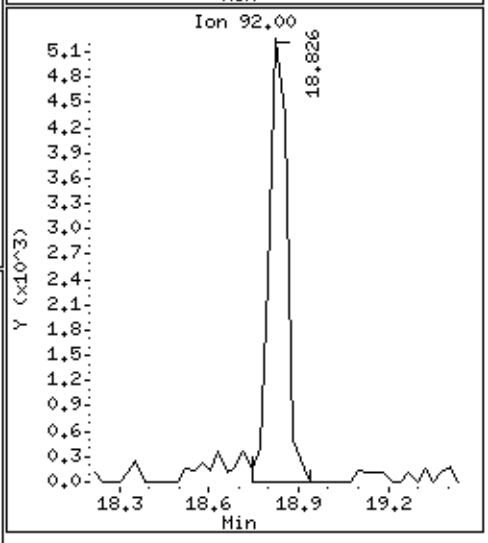
114 Toluene

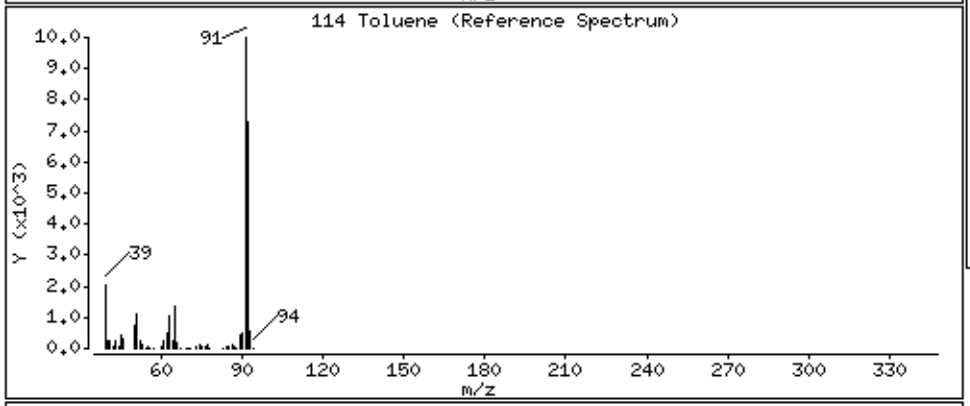
Concentration: 1.134 PPBV

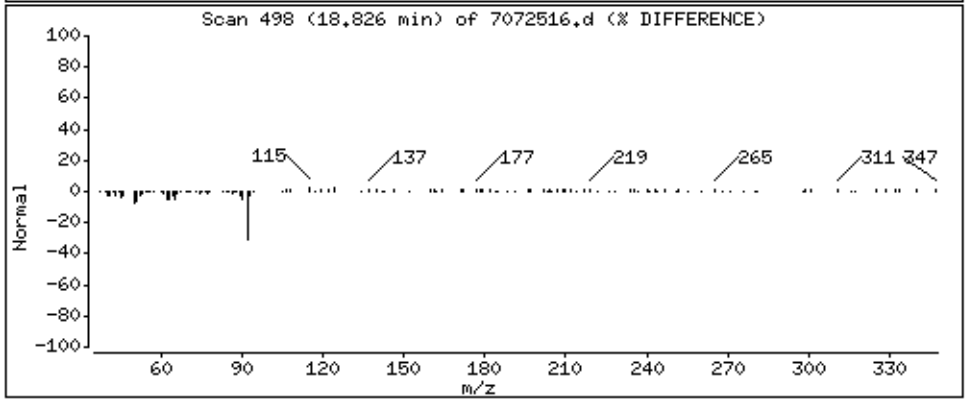












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0807300-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/25/08 10:11 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0807300-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/25/08 10:11 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-25jul.b/7072504.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 25-JUL-2008 10:11
Operator : ra Inst ID: msd7.i
Smp Info : 200mL#33668
Misc Info : Humid
Comment :
Method : /chem/msd7.i/7-25jul.b/t14q724a.m
Meth Date : 25-Jul-2008 11:04 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:39 Cal File: 7072412.d
Als bottle: 1
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

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.319 (1.000)	130	387146	25.0000		80.00- 120.00	100.00
14.347	14.319 (1.000)	128	299731			27.57- 127.57	77.42
14.319	14.319 (1.000)	49	1188990			397.19- 497.19	307.12
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.089 (1.000)	114	1305099	25.0000		80.00- 120.00	100.00
16.089	16.089 (1.000)	88	204866			0.00- 65.47	15.70
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1110050	25.0000		80.00- 120.00	100.00
21.315	21.287 (1.000)	82	649548			7.70- 107.70	58.52
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.075)	65	794072	22.9079	22.908	80.00- 120.00	100.00
15.425	15.425 (1.075)	67	358664			0.00- 97.26	45.17
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1170629	23.2174	23.217	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	165647			0.00- 64.06	14.15

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	807062			17.06- 117.06	68.94
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	656768	24.9035	24.904	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	891000			87.81- 187.81	135.66
23.278	23.278 (1.092)	176	621815			47.99- 147.99	94.68

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072504.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: Humid

Calibration Date: 25-JUL-2008
Calibration Time: 08:46
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	379144	227486	530802	387146	2.11
97 1,4-Difluorobenze	1330831	798499	1863163	1305099	-1.93
126 Chlorobenzene-d5	1248438	749063	1747813	1110050	-11.08

		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	16.12	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.

Report Date: 25-Jul-2008 11:06

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-25jul
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: AT08.sub
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: Humid

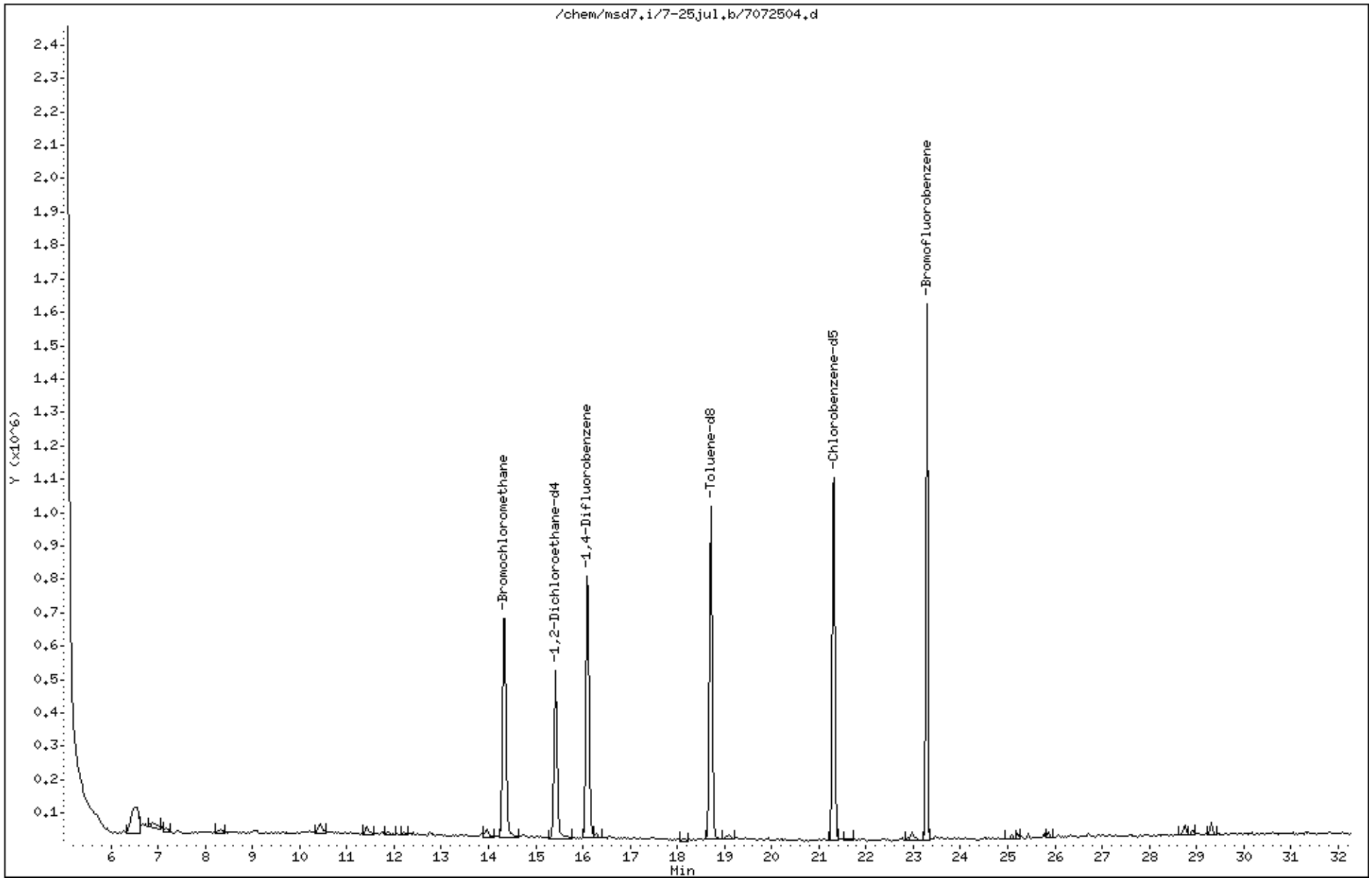
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	22.908	91.63	70-130
$ 113 Toluene-d8	25.000	23.217	92.87	70-130
$ 137 Bromofluorobenzene	25.000	24.904	99.61	70-130

0034

Data File: /chem/msd7.i/7-25jul.b/7072504.d
Date : 25-JUL-2008 10:11
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.: 0807300

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 3	102		94		101				0
02	UW AMS 4	103		97		98				0
03	Lab Blank	92		93		100				0
04	CCV	97		103		101				0
05	LCS	98		102		100				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0807300

Lab File ID: 7072502.d | Date Analyzed: 07/25/2008

Instrument ID: msd7.i | Time Analyzed: 08:46 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1248438		21.31		1330831		16.09		379144		14.32	
	UPPER LIMIT	1747813		21.64		1863163		16.42		530802		14.65	
	LOWER LIMIT	749063		20.98		798499		15.76		227486		13.99	
	CLIENT SAMPLE NO												
01	DW AMS 3	1011225		21.31		1151324		16.12		315983		14.35	
02	UW AMS 4	1036914		21.31		1178389		16.09		334734		14.35	
03	Lab Blank	1110050		21.31		1305099		16.12		387146		14.35	
04	CCV	1248438		21.31		1330831		16.09		379144		14.32	
05	LCS	1273544		21.31		1336369		16.12		369976		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 : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd7.i/7-24jul.b/7072406.d
Level 2: /chem/msd7.i/7-24jul.b/7072407.d
Level 3: /chem/msd7.i/7-24jul.b/7072415.d
Level 4: /chem/msd7.i/7-24jul.b/7072409.d
Level 5: /chem/msd7.i/7-24jul.b/7072410.d
Level 6: /chem/msd7.i/7-24jul.b/7072411.d
Level 7: /chem/msd7.i/7-24jul.b/7072412.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Propylene	+++++	+++++	3.02002	2.76516	2.78884	2.63008	2.59901	2.76062	6.041
12 Dichlorodifluoromethane/Fr12	+++++	6.77677	6.16568	6.34833	6.43577	6.00397	5.81878	6.25822	5.418
13 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 114	+++++	4.27282	4.12729	4.13344	4.19369	3.95255	3.72274	4.06709	4.894
17 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	3.60542	3.40653	3.39657	3.03681	3.00038	3.28914	7.934
19 Butane	+++++	+++++	0.60192	0.67315	0.67488	0.64336	0.61566	0.64180	5.140
20 Vinyl Chloride	+++++	3.62604	3.18713	3.35031	3.44350	3.18243	3.00378	3.29886	6.693
21 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 1,3-Butadiene	2.57402	3.97176	2.99018	3.09754	3.13876	2.96220	2.92855	3.09472	13.825
23 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Bromomethane	+++++	2.22142	1.50985	1.67528	1.83490	1.73894	1.80394	1.79739	13.219
26 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Chloroethane	+++++	1.64644	1.31563	1.48138	1.55975	1.48500	1.50095	1.49819	7.285

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	4.46958	4.74790	4.85665	4.54903	4.42454	4.60954	4.025
30 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Trichlorofluoromethane/Fr11	+++++	7.41786	6.12965	6.55398	6.59846	6.15395	6.00008	6.47566	8.049
32 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	1.14702	1.38868	1.48991	1.39684	1.37813	1.36012	9.354
39 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Freon 113	+++++	3.41122	2.61487	3.01715	3.09303	2.83302	2.77494	2.95737	9.492
43 1,1-Dichloroethene	+++++	5.56216	5.03819	5.41689	5.66353	5.21424	5.01992	5.31915	5.091
44 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Acetone	+++++	+++++	1.55343	1.62899	1.70992	1.63931	1.61823	1.62998	3.426
46 2-Propanol	+++++	+++++	5.34073	6.77590	7.28447	7.01931	7.08367	6.70082	11.666
47 Carbon Disulfide	+++++	6.21448	5.83795	6.04472	6.40781	6.10370	6.18606	6.13245	3.100

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
50 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
51 3-Chloropropene	+++++	+++++	0.82263	0.93845	1.02380	1.00943	1.02235	0.96333	8.942	
52 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
53 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Methylene Chloride	+++++	9.84957	4.62788	4.78102	5.05073	4.70823	4.62864	5.60768	37.163	<-
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 tert-Butyl-Alcohol	+++++	+++++	3.07381	3.35395	3.44922	3.00219	2.68806	3.11345	9.709	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	2.50190	1.88928	3.63845	4.17276	4.07904	4.18467	3.41102	28.781
61 trans-1,2-Dichloroethene	+++++	2.10555	2.16799	2.11769	2.22585	2.09531	2.05963	2.12867	2.781
62 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Hexane	+++++	5.00760	5.00646	5.41674	5.63241	5.32489	5.15712	5.25754	4.705
66 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Vinyl Acetate	+++++	+++++	0.42430	0.40335	0.44600	0.43243	0.43050	0.42732	3.641
70 1,1-Dichloroethane	+++++	6.04943	5.47591	5.76899	6.00381	5.59658	5.38114	5.71264	4.831
71 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 2,4,4-Trimethyl-2-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 t-Butylethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 2-Butanone	+++++	0.89385	0.80956	0.89141	0.95452	0.92102	0.92534	0.89928	5.525
76 cis-1,2-Dichloroethene	+++++	4.36316	3.95110	4.28207	4.45839	4.05831	3.88527	4.16638	5.623
77 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Tetrahydrofuran	+++++	2.96204	3.05688	3.77819	3.91576	3.72740	3.62286	3.51052	11.410
82 Chloroform	3.64662	3.77154	3.68074	4.02307	4.14310	3.85684	3.77716	3.84272	4.716
83 1,1,1-Trichloroethane	+++++	3.95220	3.99558	4.41050	4.42686	4.11793	3.97391	4.14617	5.278
84 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Cyclohexane	+++++	1.87920	2.02951	2.14058	2.25793	2.09976	2.03651	2.07391	6.109
86 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Carbon Tetrachloride	+++++	4.43189	3.85567	4.24524	4.38622	4.06159	3.92122	4.15031	5.814
88 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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
89 2,2,4-Trimethylpentane	+++++	12.56147	11.39484	13.04674	13.64671	12.68393	12.21841	12.59202	6.049
91 Benzene	1.22389	1.43103	1.34977	1.42180	1.41989	1.34186	1.28967	1.35399	5.729
92 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 1,2-Dichloroethane	+++++	1.26059	1.16004	1.24445	1.21454	1.11751	1.05991	1.17617	6.638
94 Heptane	+++++	0.45416	0.43019	0.49455	0.49231	0.46510	0.44551	0.46364	5.555
95 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	0.68338	0.60287	0.63624	0.64586	0.60498	0.58233	0.62594	5.837
102 Methyl Cyclohexane	+++++	2.54627	2.30650	2.72952	2.88578	2.71054	2.68168	2.64338	7.472
103 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 1,2-Dichloropropane	+++++	0.79805	0.66531	0.75797	0.74346	0.69780	0.66798	0.72176	7.398
105 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 1,4-Dioxane	+++++	+++++	0.26399	0.30604	0.31331	0.30601	0.29890	0.29765	6.549
107 Bromodichloromethane	+++++	1.08641	1.02034	1.15101	1.16307	1.07872	1.03035	1.08832	5.451
108 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 cis-1,3-Dichloropropene	+++++	0.74527	0.68582	0.84667	0.86425	0.81377	0.79751	0.79222	8.405

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	0.58489	0.53224	0.76353	0.77179	0.72829	0.69550	0.67937	14.549
112 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 Toluene	+++++	1.73056	1.49565	1.59693	1.58378	1.50577	1.47455	1.56454	6.083
115 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 trans-1,3-Dichloropropene	+++++	0.98844	0.90387	1.00399	1.04249	0.97073	0.92602	0.97259	5.246
117 1,1,2-Trichloroethane	+++++	0.75379	0.58472	0.60632	0.62703	0.59174	0.56182	0.62091	11.055
118 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 Tetrachloroethene	+++++	0.94448	0.79024	0.79995	0.81324	0.76088	0.72650	0.80588	9.264
121 2-Hexanone	+++++	+++++	0.83831	1.08465	1.14952	1.08110	1.00830	1.03238	11.570

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	1.33654	1.03147	1.16624	1.19860	1.11181	1.03929	1.14733	9.949
123 1,2-Dibromoethane	1.00206	1.18725	0.89464	1.01119	1.03690	0.96560	0.90042	0.99972	9.898
124 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Chlorobenzene	+++++	1.95938	1.51966	1.50191	1.48050	1.38044	1.32323	1.52752	14.720
128 Ethyl Benzene	+++++	0.78193	0.72545	0.72083	0.72785	0.67553	0.64267	0.71238	6.743
129 m,p-Xylene	+++++	1.26243	0.82741	0.90217	0.90975	0.84636	0.82144	0.92826	18.090
130 o-Xylene	+++++	0.98060	0.76167	0.83303	0.85542	0.79374	0.76119	0.83094	9.931
131 Styrene	1.76167	1.46885	1.24402	1.38688	1.41836	1.33546	1.27184	1.41244	12.259
132 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	1.48443	0.99290	1.11813	1.15838	1.09222	1.01009	1.14269	15.665
134 Cumene	3.21574	2.87618	2.40937	2.45218	2.52100	2.34575	2.19516	2.57363	13.678
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 1,1,2,2-Tetrachloroethane	+++++	2.47782	1.52797	1.43163	1.45882	1.35994	1.24429	1.58341	28.336
141 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Propylbenzene	+++++	5.11772	3.70667	3.35848	3.49122	3.25953	2.87407	3.63461	21.385
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	4.32151	3.06622	2.81146	2.86342	2.72129	2.53869	3.05376	21.111
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	3.64033	2.48782	2.17089	2.20884	2.11271	1.97021	2.43180	25.325
148 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 1,2,4-Trimethylbenzene	+++++	3.51932	2.35544	2.11665	2.18044	2.09044	1.96419	2.37108	24.331
151 bis(2-chloroethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,3-Dichlorobenzene	+++++	2.85136	1.83161	1.58260	1.64221	1.57234	1.46710	1.82454	28.348
156 1,4-Dichlorobenzene	+++++	2.81617	1.98256	1.65709	1.71552	1.65233	1.53432	1.89300	25.158
157 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
159 alpha-Chlorotoluene	+++++	3.61187	2.60261	2.53553	2.66324	2.61453	2.41006	2.73964	15.922
160 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dichlorobenzene	+++++	2.82788	1.96453	1.59767	1.63306	1.59338	1.47167	1.84803	27.475
162 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	1.37134	0.63835	0.80585	1.12678	1.05441	0.99935	28.541
166 Hexachlorobutadiene	+++++	+++++	1.26265	0.63585	0.74211	0.91275	0.83588	0.87785	27.199
167 Naphthalene	+++++	+++++	2.43874	1.10835	1.53745	2.26490	2.10049	1.88998	29.236
168 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd7.i/7-24jul.b/t14q724a.m
Cal Date : 25-Jul-2008 08:02 lover
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 90 1,2-Dichloroethane-d4	2.20766	2.20229	2.20518	2.20909	2.31207	2.24148	2.29112	2.23841	2.033
$ 113 Toluene-d8	0.93787	0.93929	0.93015	0.97545	0.99076	0.98772	0.99960	0.96584	3.016
$ 137 Bromofluorobenzene	0.58076	0.57486	0.59014	0.58986	0.61877	0.59493	0.60832	0.59395	2.565

Calibration History

Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Start Cal Date: 24-JUL-2008 11:12
End Cal Date : 24-JUL-2008 19:21

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
24-JUL-2008 11:12	AFCEElow	/chem/msd7.i/7-24jul.b/7072406.d
Cal Level: 2 , Cal Amount: 0.50000		
24-JUL-2008 12:16	AT08low	/chem/msd7.i/7-24jul.b/7072407.d
Cal Level: 3 , Cal Amount: 2.00000		
24-JUL-2008 19:21	AT08mdl	/chem/msd7.i/7-24jul.b/7072415.d
Cal Level: 4 , Cal Amount: 25.00000		
24-JUL-2008 13:42	AT08mdl	/chem/msd7.i/7-24jul.b/7072409.d
Cal Level: 5 , Cal Amount: 50.00000		
24-JUL-2008 14:21	AT08mdl	/chem/msd7.i/7-24jul.b/7072410.d
Cal Level: 6 , Cal Amount: 100.00000		
24-JUL-2008 15:00	AT08	/chem/msd7.i/7-24jul.b/7072411.d
Cal Level: 7 , Cal Amount: 200.00000		
24-JUL-2008 15:39	AT08mdl	/chem/msd7.i/7-24jul.b/7072412.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000
24-JUL-2008 14:21 | AT08mdl | /chem/msd7.i/7-24jul.b/7072410.d
Ccal Level: 5 , Ccal Amount: 50.000
24-JUL-2008 14:21 | AT08mdl | /chem/msd7.i/7-24jul.b/7072410a.d

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-7 on 7/24/08:

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

Level 3 (2.0ppbv) was rerun due to an anomalous unacceptable Internal Standard recovery.

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

0058

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	39.12
75	30.0 – 60.0% of mass 95	52.43
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.71
173	Less than 2.0% of mass 174	(0.53)[1]
174	50.0 – 100% of mass 95	79.43
175	5.0 – 9.0% of mass 174	(7.24)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.01)[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

BFB Injection Date: 7-24-08
BFB Injection Time: 1045
BFB File ID: 7072405
Tekmar Purge Flow: 16.9 ml/min
Vacuum: NA

IS/S Std.#: 1612-59	Exp. Date: 10-3-08
BCM 358443	
1,4-DFB 1288556	
CB-d5 1202945	

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

Verify 176/174 m/z Ratio: 848576/874752 x 100 = 97.008

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

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(1276651)}{(1288556)} \times \frac{(25)}{(0.98597)} = 25.64506 \div 25.12148$ 10/25/08

Reported Result ~~25.122~~ 25.645

File ID:	7072410a
Compound:	Toluene-d8
Initials:	RA / [illegible]

Method: T14Q724A.m 0.96584

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	7072405	BFB Tune Check	1476-434	50ng	2ml	1.00	RA	7-24-08	1045	RA / [illegible]	Apex +1
2	✓	06	ICAL Level 1 (20ppbv)	1541-210	0.5ppbv	0.5ml				1112	RA / [illegible]	
3	✓	07	ICAL level 2 (200ppbv)	1541-210	0.5ppbv	0.5ml				1216	RA / [illegible]	
4	✗	08	ICAL level 3 (200ppbv)		2.0ppbv	2.0ml				1303	RA / NA	ISV
5	✓	09	ICAL level 4 (200ppbv)		25ppbv	25ml				1342	RA / [illegible]	
6	✓	10	ICAL level 5 (200ppbv)		50ppbv	50ml				1421	RA / [illegible]	
7	✓	11	ICAL level 6 (200ppbv)		100ppbv	100ml				1500	RA / [illegible]	

Rain [illegible] / Signature

7-24-08 Date

@ Air Toxics Ltd.

MSD-7

Logbook #: 1706

8	✓	070412	ICAL level 7 (200ppbv)	1541-210	200ppbv	200ml	1.00	RA	7-24-08	1539	RA/ ~~LO~~	
9	x	13	System Blank	33668	Humid	200ml	1.00	RA	7-24-08	1627	xp/ ~~LO~~	Meas
10	✓	14	System Blank	3419	Humid	200ml	1.00	xp	↓	1836	xp/ ~~LO~~	
11	✓	15	ICAL Level 3	#1541-210	2.0ppbv	20ml	1.00	xp		1921	~~LO~~	
12	✓	16	LCS	#1541-137	10ppbv	100ml	1.00	xp		2003	~~LO~~	ICAL LCS
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26			LO 7/25/08									
27												
28												
29												
30												
31												

0059

Comments: Flow controller AA99123141 Actual 24.6 mL/min

Nist flowmeter 200-7744 Exp 8-27-08 Nominal 23.6 mL/min

Laura Overmyer
Signature

7/25/08
Date

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/7-24jul.b/7072416.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 24-JUL-2008 20:03
Operator : xp Inst ID: msd7.i
Smp Info : 50mL#1541-137
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:02 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:39 Cal File: 7072412.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		
14.320	14.347 (1.000)	130	362103	25.0000		50.00- 150.00	100.00
14.320	14.347 (1.000)	128	272723			27.95- 127.95	75.32
14.320	14.403 (1.000)	49	1588723			339.50- 439.50	438.75
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.117 (1.000)	114	1279961	25.0000		50.00- 150.00	100.00
16.089	16.117 (1.000)	88	205417			0.00- 65.01	16.05
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1181028	25.0000		50.00- 150.00	100.00
21.287	21.315 (1.000)	82	704590			7.70- 107.70	59.66
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.426 (1.077)	65	798549	24.6303	24.630	50.00- 150.00	100.00
15.425	15.426 (1.077)	67	402196			0.00- 97.26	50.37
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.163)	98	1278768	25.8602	25.860	50.00- 150.00	100.00
18.716	18.716 (1.163)	70	177894			0.00- 64.06	13.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.716	18.716 (1.163)	100	838336			17.06- 117.06	65.56
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	702025	25.0198	25.020	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	995783			90.47- 190.47	141.84
23.278	23.278 (1.092)	176	699452			46.73- 146.73	99.63
11 Propylene					CAS #: 115-07-1		
5.582	5.610 (0.390)	41	1908367	47.7268	47.727	50.00- 150.00	100.00
5.582	5.610 (0.390)	42	1313684			17.57- 117.57	68.84
5.582	5.610 (0.390)	39	1506997			28.91- 128.91	78.97
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.721	5.748 (0.399)	85	4234486	46.7152	46.715	50.00- 150.00	100.00
5.721	5.748 (0.399)	87	1332608			0.00- 83.12	31.47
16 Freon 114					CAS #: 76-14-2		
6.163	6.246 (0.430)	135	2709060	45.9878	45.988	50.00- 150.00	100.00
6.163	6.246 (0.430)	137	887475			0.00- 82.77	32.76
18 Chloromethane					CAS #: 74-87-3		
6.467	6.522 (0.452)	50	2171867	45.5889	45.589	50.00- 150.00	100.00
6.467	6.522 (0.452)	52	652938			0.00- 80.60	30.06
20 Vinyl Chloride					CAS #: 75-01-4		
6.827	6.854 (0.477)	62	2235926	46.7951	46.795	50.00- 150.00	100.00
6.827	6.854 (0.477)	64	617836			0.00- 79.39	27.63
22 1,3-Butadiene					CAS #: 106-99-0		
6.882	6.965 (0.481)	54	2063161	46.0278	46.028	50.00- 150.00	100.00
6.882	6.965 (0.481)	39	2067305			53.85- 153.85	100.20
25 Bromomethane					CAS #: 74-83-9		
7.988	8.016 (0.558)	94	1175170	45.1406	45.140	50.00- 150.00	100.00
7.988	8.016 (0.558)	96	1111788			35.61- 135.61	94.61
27 Chloroethane					CAS #: 75-00-3		
8.320	8.347 (0.581)	64	1025903	47.2767	47.277	50.00- 150.00	100.00
8.292	8.347 (0.579)	49	449358			0.00- 97.46	43.80
8.320	8.347 (0.581)	66	287017			0.00- 79.98	27.98
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.900	8.956 (0.622)	101	4309158	45.9427	45.943	50.00- 150.00	100.00
8.900	8.956 (0.622)	103	2696582			12.90- 112.90	62.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.398	9.453 (0.656)	45	996425	50.5798	50.580	50.00- 150.00	100.00
9.398	9.453 (0.656)	43	209762			0.00- 72.32	21.05
9.398	9.453 (0.656)	46	375712			0.00- 86.95	37.71
42 Freon 113					CAS #: 76-13-1		
10.144	10.200 (0.708)	151	2235831	52.1964	52.196	50.00- 150.00	100.00
10.144	10.200 (0.708)	153	1408579			13.38- 113.38	63.00
10.144	10.200 (0.708)	101	2914014			83.36- 183.36	130.33
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.255	10.310 (0.716)	61	4070247	52.8307	52.831	50.00- 150.00	100.00
10.255	10.310 (0.716)	96	1432147			0.00- 83.70	35.19
10.255	10.310 (0.716)	98	899497			0.00- 71.10	22.10
45 Acetone					CAS #: 67-64-1		
10.421	10.449 (0.728)	58	1172889	49.6802	49.680	50.00- 150.00	100.00
10.421	10.449 (0.728)	43	4416814			337.38- 437.38	376.58
46 2-Propanol					CAS #: 67-63-0		
10.614	10.642 (0.741)	45	5005217	51.5707	51.571	50.00- 150.00	100.00
10.614	10.642 (0.741)	43	1164198			0.00- 74.82	23.26
10.614	10.642 (0.741)	59	155692			0.00- 53.58	3.11
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.863 (0.757)	76	4240661	47.7427	47.743	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.085	11.140 (0.774)	76	696363	49.9077	49.908	50.00- 150.00	100.00
11.085	11.112 (0.774)	41	3432346			426.83- 526.83	492.90
54 Methylene Chloride					CAS #: 75-09-2		
11.416	11.472 (0.797)	49	3537819	43.5572	43.557	50.00- 150.00	100.00
11.416	11.472 (0.797)	84	1195131			0.00- 83.64	33.78
11.416	11.472 (0.797)	51	1074716			0.00- 81.01	30.38
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.822)	73	2636095	53.3562	53.356	50.00- 150.00	100.00
11.748	11.776 (0.820)	57	924623			0.00- 88.49	35.08
11.748	11.776 (0.820)	41	1008803			0.00- 95.41	38.27
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.859	11.886 (0.828)	96	1489382	48.3065	48.306	50.00- 150.00	100.00
11.859	11.886 (0.828)	61	3524498			188.86- 288.86	236.64
11.859	11.886 (0.828)	98	929083			9.25- 109.25	62.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.218	12.246 (0.853)	57	3806877	49.9913	49.991	50.00- 150.00	100.00
12.218	12.246 (0.853)	43	2648461			22.81- 122.81	69.57
12.218	12.246 (0.853)	86	308879			0.00- 58.81	8.11
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.744 (0.888)	86	298116	48.1663	48.166	50.00- 150.00	100.00
12.716	12.716 (0.888)	43	7290501			2315.51-2415.51	2445.52
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.744	12.771 (0.890)	63	4151072	50.1685	50.168	50.00- 150.00	100.00
12.744	12.771 (0.890)	65	1199816			0.00- 78.79	28.90
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.965)	72	639457	49.0934	49.093	50.00- 150.00	100.00
13.822	13.822 (0.965)	43	5052509			700.25- 800.25	790.12
13.822	13.822 (0.965)	57	375906			11.32- 111.32	58.79
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.849	13.877 (0.967)	61	2967571	49.1756	49.176	50.00- 150.00	100.00
13.849	13.877 (0.967)	96	1367618			0.00- 94.94	46.09
13.849	13.877 (0.967)	98	854777			0.00- 77.78	28.80
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (1.000)	42	2592938	50.9951	50.995	50.00- 150.00	100.00
14.320	14.320 (1.000)	71	592566			0.00- 73.86	22.85
14.320	14.320 (1.000)	72	645973			0.00- 75.11	24.91
82 Chloroform					CAS #: 67-66-3		
14.402	14.403 (1.006)	83	2838891	51.0055	51.006	50.00- 150.00	100.00
14.402	14.403 (1.006)	85	1771525			13.85- 113.85	62.40
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.031)	97	2962506	49.3311	49.331	50.00- 150.00	100.00
14.762	14.762 (1.031)	99	1894708			15.12- 115.12	63.96
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.033)	84	1492484	49.6852	49.685	50.00- 150.00	100.00
14.790	14.790 (1.033)	56	3361596			175.01- 275.01	225.23
14.790	14.790 (1.033)	41	2002414			92.46- 192.46	134.17
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.039 (1.050)	119	2856313	47.5153	47.515	50.00- 150.00	100.00
15.038	15.039 (1.050)	117	3001136			52.22- 152.22	105.07
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.073)	57	8987418	49.2774	49.277	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 (1.073)	56	3091605			0.00- 84.79	34.40
15.370	15.370 (1.073)	41	2706202			0.00- 82.30	30.11
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.960)	78	3446390	49.7156	49.716	50.00- 150.00	100.00
15.453	15.453 (0.960)	77	756877			0.00- 73.75	21.96
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.967)	62	2913213	48.3775	48.378	50.00- 150.00	100.00
15.564	15.564 (0.967)	64	846484			0.00- 79.85	29.06
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.972)	71	1187316	50.0185	50.018	50.00- 150.00	100.00
15.647	15.647 (0.972)	43	3641800			263.55- 363.55	306.73
15.647	15.647 (0.972)	57	1809887			101.27- 201.27	152.44
101 Trichloroethene					CAS #: 79-01-6		
16.559	16.587 (1.029)	95	1505462	46.9764	46.976	50.00- 150.00	100.00
16.587	16.587 (1.031)	130	1316424			35.92- 135.92	87.44
16.587	16.587 (1.031)	97	955909			14.51- 114.51	63.50
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.060)	63	1757501	47.5602	47.560	50.00- 150.00	100.00
17.057	17.057 (1.060)	62	1340096			23.30- 123.30	76.25
17.057	17.057 (1.060)	41	1482091			36.21- 136.21	84.33
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.069)	88	727964	47.7693	47.769	50.00- 150.00	100.00
17.195	17.195 (1.069)	58	947119			81.32- 181.32	130.11
17.195	17.195 (1.069)	57	327380			0.00- 93.19	44.97
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.088)	83	2785164	49.9849	49.985	50.00- 150.00	100.00
17.499	17.499 (1.088)	85	1723390			13.63- 113.63	61.88
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.136)	75	2051021	50.5673	50.567	50.00- 150.00	100.00
18.273	18.273 (1.136)	77	638067			0.00- 85.26	31.11
18.273	18.273 (1.136)	39	2047519			53.87- 153.87	99.83
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.148)	58	1836788	52.8073	52.807	50.00- 150.00	100.00
18.467	18.467 (1.148)	43	5297829			234.93- 334.93	288.43
18.467	18.467 (1.148)	85	442540			0.00- 75.34	24.09

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 (1.170)	91	3982243	49.7147	49.715	50.00- 150.00	100.00
18.826	18.826 (1.170)	92	2477884			11.96- 111.96	62.22
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	2273226	49.4757	49.476	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	704425			0.00- 81.98	30.99
19.269	19.269 (0.904)	39	2048931			41.64- 141.64	90.13
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	1387074	47.2884	47.288	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	869510			14.05- 114.05	62.69
19.601	19.601 (0.920)	83	1170067			33.78- 133.78	84.36
120 Tetrachloroethene					CAS #: 127-18-4		
19.766	19.794 (0.927)	166	1823511	47.8980	47.898	50.00- 150.00	100.00
19.766	19.794 (0.927)	129	1312914			23.13- 123.13	72.00
19.766	19.794 (0.927)	131	1368829			29.18- 129.18	75.07
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	2556683	52.4226	52.423	50.00- 150.00	100.00
19.905	19.905 (0.934)	43	5275195			161.84- 261.84	206.33
19.905	19.905 (0.934)	100	254613			0.00- 59.97	9.96
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	2644132	48.7839	48.784	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	2051883			27.29- 127.29	77.60
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	2204109	46.6695	46.670	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	2060006			45.70- 145.70	93.46
127 Chlorobenzene					CAS #: 108-90-7		
21.342	21.370 (1.001)	112	3297098	45.6904	45.690	50.00- 150.00	100.00
21.342	21.370 (1.001)	114	1075649			0.00- 81.49	32.62
21.342	21.343 (1.001)	77	2086343			19.57- 119.57	63.28
128 Ethyl Benzene					CAS #: 100-41-4		
21.425	21.453 (1.005)	106	1590675	47.2662	47.266	50.00- 150.00	100.00
21.425	21.426 (1.005)	91	5604762			312.17- 412.17	352.35
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	2025989	46.2005	46.200	50.00- 150.00	100.00
21.619	21.647 (1.014)	91	4619025			179.26- 279.26	227.99
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	1919270	48.8928	48.893	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	4595657			197.42- 297.42	239.45
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	3123796	46.8158	46.816	50.00- 150.00	100.00
22.366	22.366 (1.049)	78	1889279			14.43- 114.43	60.48
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	2557076	47.3690	47.369	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	1329624			0.46- 100.46	52.00
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	5686283	46.7695	46.769	50.00- 150.00	100.00
22.919	22.919 (1.075)	120	1588255			0.00- 77.67	27.93
22.891	22.891 (1.074)	51	1156505			0.00- 71.10	20.34
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	3268545	43.6959	43.696	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	2082212			13.97- 113.97	63.70
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	7801333	45.4350	45.435	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	1651279			0.00- 71.33	21.17
23.582	23.582 (1.106)	105	269338			0.00- 53.45	3.45
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	6392661	44.3125	44.312	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	2076566			0.00- 82.31	32.48
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	4883697	42.5109	42.511	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	2480652			0.15- 100.15	50.79
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	4793218	42.7918	42.792	50.00- 150.00	100.00
24.495	24.495 (1.149)	120	2262817			0.00- 97.16	47.21
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	3651201	42.3607	42.361	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	2251981			14.61- 114.61	61.68
25.075	25.075 (1.176)	111	1540846			0.00- 93.11	42.20
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	3731691	41.7287	41.729	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	2369956			13.36- 113.36	63.51
25.213	25.213 (1.183)	111	1543969			0.00- 92.11	41.37

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	5969345	46.1225	46.122	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	1052088			0.00- 68.07	17.62
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	3561473	40.7943	40.794	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	2273992			13.29- 113.29	63.85
25.877	25.877 (1.214)	111	1579691			0.00- 95.36	44.35
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	1833677	38.8407	38.841	50.00- 150.00	100.00
28.753	28.753 (1.349)	182	1720359			43.65- 143.65	93.82
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	1686068	40.6570	40.657	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	1041740			13.81- 113.81	61.79
29 Isopentane					CAS #: 78-78-4		
8.320	8.347 (0.581)	43	3126559	46.8292	46.829	50.00- 150.00	100.00
8.320	8.347 (0.581)	57	2000963			11.13- 111.13	64.00
19 Butane					CAS #: 106-97-8		
6.716	6.799 (0.469)	58	458016	49.2711	49.271	50.00- 150.00	100.00
6.716	6.799 (0.469)	43	3926677			840.33- 940.33	857.32
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.178)	83	1924903	50.2756	50.276	50.00- 150.00	100.00
16.863	16.863 (1.178)	98	891987			0.00- 95.26	46.34
16.863	16.863 (1.178)	55	3066434			110.72- 210.72	159.30
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	3693480	41.3673	41.367	50.00- 150.00	100.00
29.306	29.306 (1.375)	127	453169			0.00- 62.45	12.27
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.799)	59	2061360	45.7110	45.711	50.00- 150.00	100.00
11.444	11.444 (0.799)	41	533265			0.00- 80.33	25.87
11.444	11.444 (0.799)	57	216947			0.00- 60.11	10.52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072416.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	362103	1.02
97 1,4-Difluorobenze	1288556	773134	1803978	1279961	-0.67
126 Chlorobenzene-d5	1202945	721767	1684123	1181028	-1.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.32	-0.19
97 1,4-Difluorobenze	16.12	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.

Report Date: 25-Jul-2008 08:04

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-24jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: xp
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 200ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	46.715	93.43	70-130
16 Freon 114	50.000	45.988	91.98	70-130
18 Chloromethane	50.000	45.589	91.18	70-130
20 Vinyl Chloride	50.000	46.795	93.59	70-130
22 1,3-Butadiene	50.000	46.028	92.06	60-140
25 Bromomethane	50.000	45.140	90.28	70-130
27 Chloroethane	50.000	47.277	94.55	70-130
31 Trichlorofluoromet	50.000	45.943	91.89	70-130
38 Ethanol	50.000	50.580	101.16	60-140
42 Freon 113	50.000	52.196	104.39	70-130
43 1,1-Dichloroethene	50.000	52.831	105.66	70-130
45 Acetone	50.000	49.680	99.36	60-140
47 Carbon Disulfide	50.000	47.743	95.49	60-140
46 2-Propanol	50.000	51.571	103.14	60-140
54 Methylene Chloride	50.000	43.557	87.11	70-130
60 MTBE	50.000	53.356	106.71	60-140
61 trans-1,2-Dichloro	50.000	48.306	96.61	60-140
65 Hexane	50.000	49.991	99.98	60-140
69 Vinyl Acetate	50.000	48.166	96.33	60-140
70 1,1-Dichloroethane	50.000	50.168	100.34	70-130
76 cis-1,2-Dichloroet	50.000	49.176	98.35	70-130
75 2-Butanone	50.000	49.093	98.19	60-140
80 Tetrahydrofuran	50.000	50.995	101.99	60-140
82 Chloroform	50.000	51.006	102.01	70-130
85 Cyclohexane	50.000	49.685	99.37	60-140
83 1,1,1-Trichloroeth	50.000	49.331	98.66	70-130
87 Carbon Tetrachlori	50.000	47.515	95.03	70-130
91 Benzene	50.000	49.716	99.43	70-130
93 1,2-Dichloroethane	50.000	48.378	96.76	70-130
94 Heptane	50.000	50.018	100.04	60-140
101 Trichloroethene	50.000	46.976	93.95	70-130
104 1,2-Dichloropropan	50.000	47.560	95.12	70-130
106 1,4-Dioxane	50.000	47.769	95.54	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 Bromodichlorometha	50.000	49.985	99.97	60-140
110 cis-1,3-Dichloropr	50.000	50.567	101.13	70-130
111 4-Methyl-2-pentano	50.000	52.807	105.61	60-140
114 Toluene	50.000	49.715	99.43	70-130
116 trans-1,3-Dichloro	50.000	49.476	98.95	70-130
117 1,1,2-Trichloroeth	50.000	47.288	94.58	70-130
120 Tetrachloroethene	50.000	47.898	95.80	70-130
121 2-Hexanone	50.000	52.423	104.85	60-140
122 Dibromochlorometha	50.000	48.784	97.57	60-140
123 1,2-Dibromoethane	50.000	46.670	93.34	70-130
127 Chlorobenzene	50.000	45.690	91.38	70-130
128 Ethyl Benzene	50.000	47.266	94.53	70-130
129 m,p-Xylene	50.000	46.200	92.40	70-130
130 o-Xylene	50.000	48.893	97.79	70-130
131 Styrene	50.000	46.816	93.63	70-130
133 Bromoform	50.000	47.369	94.74	60-140
140 1,1,2,2-Tetrachlor	50.000	43.696	87.39	70-130
145 4-Ethyltoluene	50.000	44.312	88.62	60-140
147 1,3,5-Trimethylben	50.000	42.511	85.02	70-130
150 1,2,4-Trimethylben	50.000	42.792	85.58	70-130
155 1,3-Dichlorobenzen	50.000	42.361	84.72	70-130
156 1,4-Dichlorobenzen	50.000	41.729	83.46	70-130
159 alpha-Chlorotoluen	50.000	46.122	92.25	70-130
161 1,2-Dichlorobenzen	50.000	40.794	81.59	70-130
165 1,2,4-Trichloroben	50.000	38.841	77.68	70-130
166 Hexachlorobutadien	50.000	40.657	81.31	70-130
142 Propylbenzene	50.000	45.435	90.87	60-140
134 Cumene	50.000	46.769	93.54	60-140
51 3-Chloropropene	50.000	49.908	99.82	60-140
89 2,2,4-Trimethylpen	50.000	49.277	98.55	60-140
29 Isopentane	50.000	46.829	93.66	70-130
19 Butane	50.000	49.271	98.54	70-130
102 Methyl Cyclohexane	50.000	50.276	100.55	70-130
11 Propylene	50.000	47.727	95.45	60-140
167 Naphthalene	50.000	41.367	82.73	60-140
57 tert-Butyl-Alcohol	50.000	45.711	91.42	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	24.630	98.52	70-130
$ 113 Toluene-d8	25.000	25.860	103.44	70-130
$ 137 Bromofluorobenzene	25.000	25.020	100.08	70-130

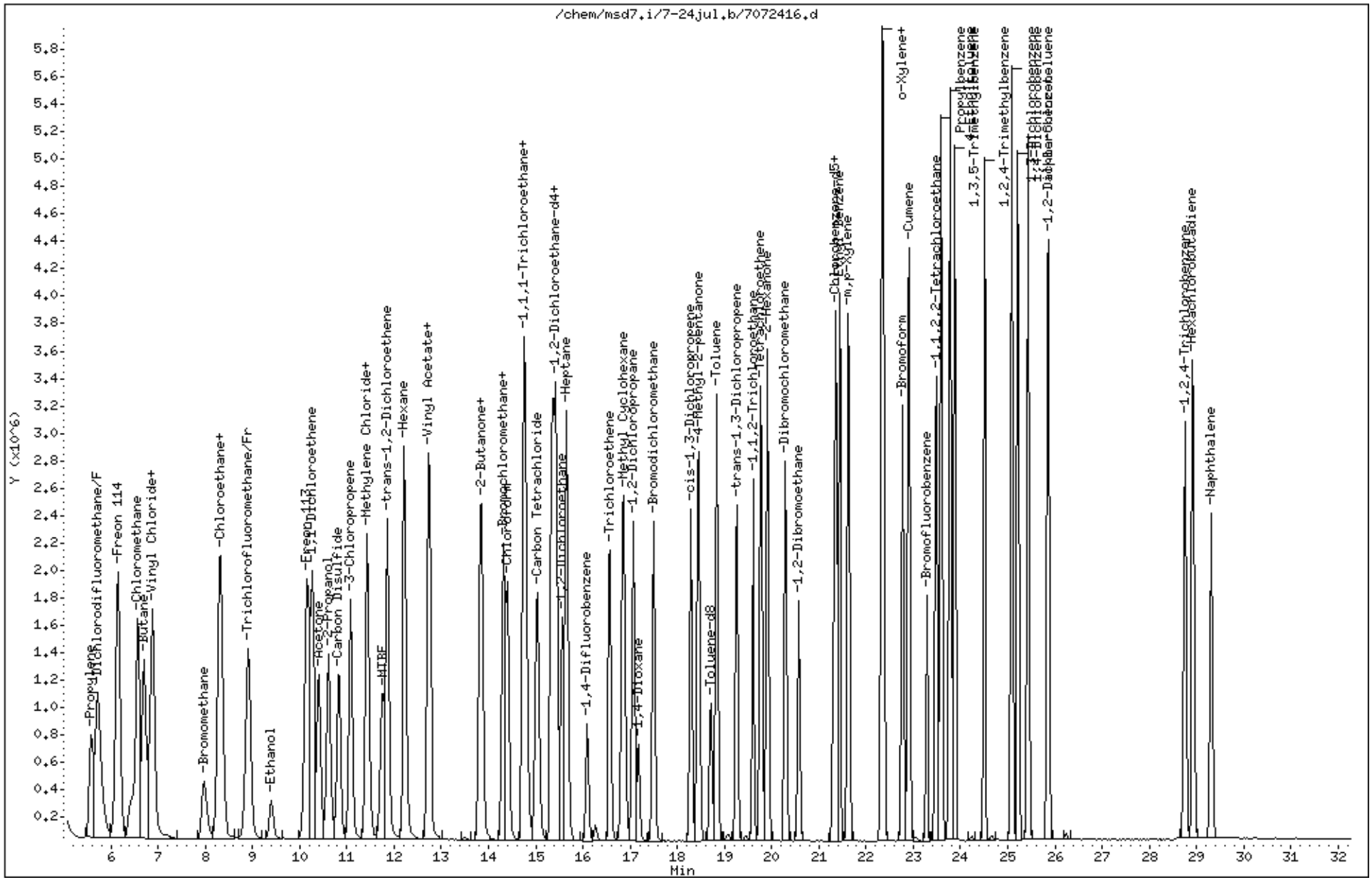
0073

Data File: /chem/msd7.i/7-24jul.b/7072416.d
Date : 24-JUL-2008 20:03
Client ID: LCS
Sample Info: 50mL#1541-137

Instrument: msd7.i

Operator: xp
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-24jul.b/7072406.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 24-JUL-2008 11:12
Operator : ra Inst ID: msd7.i
Smp Info : 0.3mL#1541-210
Misc Info : 0.3ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:01 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 11:12 Cal File: 7072406.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		
14.319	14.319 (1.000)	130	360105	25.0000		50.00- 150.00	100.00
14.319	14.319 (1.000)	128	276427			27.95- 127.95	76.76
14.319	14.319 (1.000)	49	1122384			339.50- 439.50	311.68
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1294026	25.0000		50.00- 150.00	100.00
16.089	16.089 (1.000)	88	189686			0.00- 65.01	14.66
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1161113	25.0000		50.00- 150.00	100.00
21.287	21.287 (1.000)	82	678409			7.70- 107.70	58.43
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.077)	65	794989	25.0000	24.656	50.00- 150.00	100.00
15.425	15.425 (1.077)	67	345221			0.00- 97.26	43.42
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.163)	98	1213629	25.0000	24.276	50.00- 150.00	100.00
18.716	18.716 (1.163)	70	165422			0.00- 64.06	13.63

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	803495			17.06- 117.06	66.21
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	674333	25.0000	24.445	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	949023			90.47- 190.47	140.74
23.278	23.278 (1.092)	176	643255			46.73- 146.73	95.39
22 1,3-Butadiene					CAS #: 106-99-0		
6.854	6.854 (0.479)	54	11123	0.30000	0.2495	50.00- 150.00	100.00(a)
6.854	6.854 (0.479)	39	13907			53.85- 153.85	125.03
82 Chloroform					CAS #: 67-66-3		
14.402	14.402 (1.006)	83	15758	0.30000	0.2847	50.00- 150.00	100.00(a)
14.402	14.402 (1.006)	85	8923			13.85- 113.85	56.63
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.960)	78	19005	0.30000	0.2712	50.00- 150.00	100.00(a)
15.453	15.453 (0.960)	77	4640			0.00- 73.75	24.41
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	13962	0.30000	0.3007	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	15683			45.70- 145.70	112.33
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	24546	0.30000	0.3742	50.00- 150.00	100.00(a)
22.365	22.365 (1.049)	78	13826			14.43- 114.43	56.33
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	44806	0.30000	0.3748	50.00- 150.00	100.00(a)
22.918	22.918 (1.075)	120	11034			0.00- 77.67	24.63
22.891	22.891 (1.074)	51	9603			0.00- 71.10	21.43
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	58283	0.30000	0.5160	50.00- 150.00	100.00
23.858	23.858 (1.119)	120	28896			0.15- 100.15	49.58
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	58378	0.30000	0.5301	50.00- 150.00	100.00
24.494	24.494 (1.149)	120	27726			0.00- 97.16	47.49

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: 7072406.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 0.3ppbv (200ppbv)

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	360105	0.46
97 1,4-Difluorobenze	1288556	773134	1803978	1294026	0.42
126 Chlorobenzene-d5	1202945	721767	1684123	1161113	-3.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.32	-0.19
97 1,4-Difluorobenze	16.12	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.

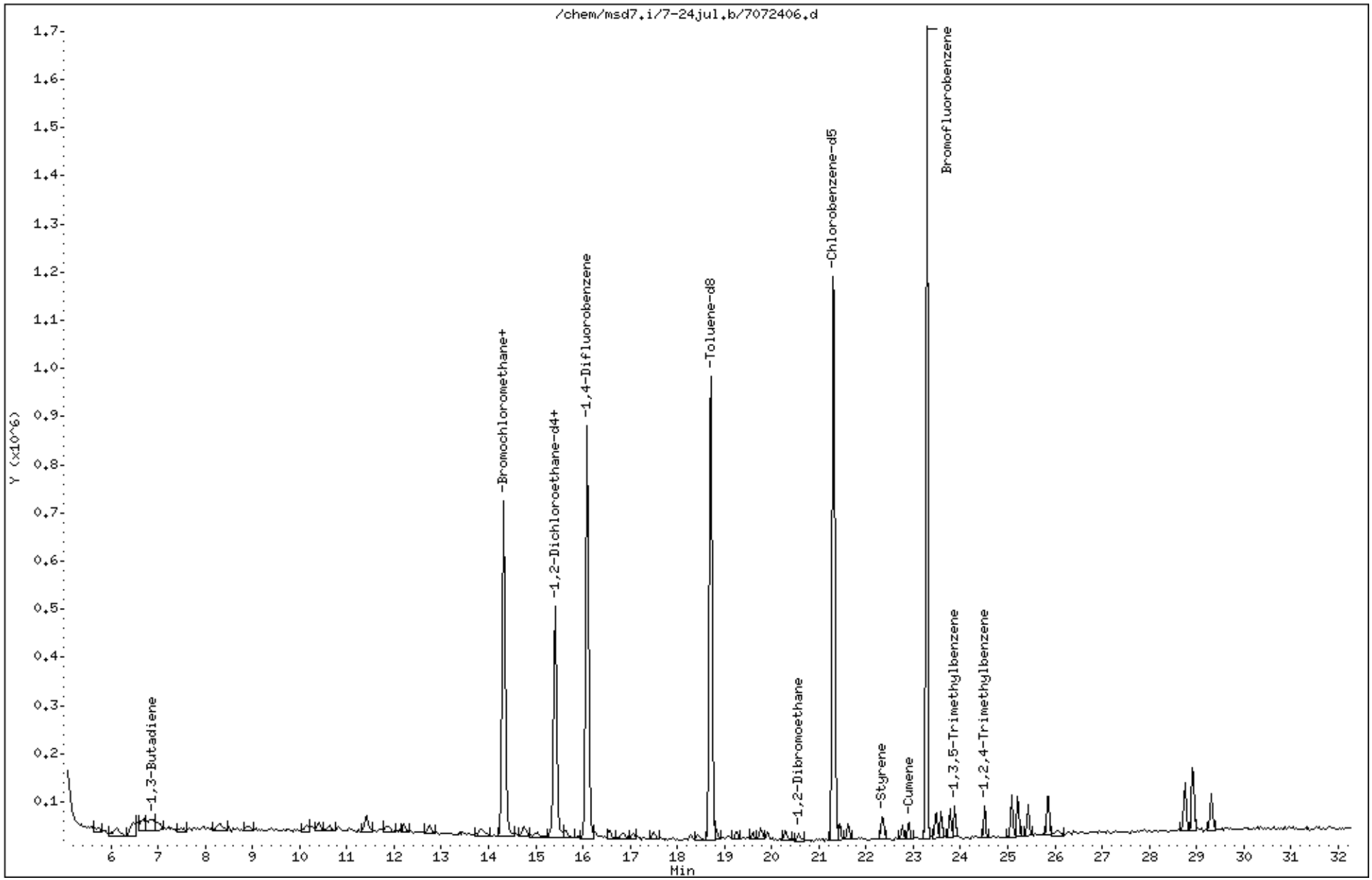
0077

Data File: /chem/msd7.i/7-24jul.b/7072406.d
Date : 24-JUL-2008 11:12
Client ID: Level 1
Sample Info: 0.3mL#1541-210

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/7-24jul.b/7072407.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 24-JUL-2008 12:16
Operator : ra Inst ID: msd7.i
Smp Info : 0.5mL#1541-210
Misc Info : 0.5ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:01 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 12:16 Cal File: 7072407.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		
14.319	14.319 (1.000)	130	342619	25.0000		50.00- 150.00	100.00
14.319	14.319 (1.000)	128	266847			27.95- 127.95	77.88
14.319	14.319 (1.000)	49	1049018			339.50- 439.50	306.18
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1217409	25.0000		50.00- 150.00	100.00
16.089	16.089 (1.000)	88	187614			0.00- 65.01	15.41
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1071385	25.0000		50.00- 150.00	100.00
21.287	21.287 (1.000)	82	622133			7.70- 107.70	58.07
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.077)	65	754548	25.0000	24.597	50.00- 150.00	100.00
15.425	15.425 (1.077)	67	330958			0.00- 97.26	43.86
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.163)	98	1143505	25.0000	24.313	50.00- 150.00	100.00
18.716	18.716 (1.163)	70	158016			0.00- 64.06	13.82

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	753035			17.06- 117.06	65.85
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	615897	25.0000	24.196	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	876240			90.47- 190.47	142.27
23.278	23.278 (1.092)	176	604995			46.73- 146.73	98.23
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	46437	0.50000	0.5414	50.00- 150.00	100.00
5.720	5.720 (0.399)	87	17772			0.00- 83.12	38.27
16 Freon 114					CAS #: 76-14-2		
6.163	6.163 (0.430)	135	29279	0.50000	0.5253	50.00- 150.00	100.00
6.163	6.163 (0.430)	137	10654			0.00- 82.77	36.39
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.479)	62	24847	0.50000	0.5496	50.00- 150.00	100.00
6.854	6.854 (0.479)	64	8674			0.00- 79.39	34.91
22 1,3-Butadiene					CAS #: 106-99-0		
6.909	6.909 (0.483)	54	27216	0.50000	0.6417	50.00- 150.00	100.00
6.909	6.909 (0.483)	39	24785			53.85- 153.85	91.07
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.558)	94	15222	0.50000	0.6180	50.00- 150.00	100.00
7.960	7.960 (0.556)	96	5872			35.61- 135.61	38.58
27 Chloroethane					CAS #: 75-00-3		
8.319	8.319 (0.581)	64	11282	0.50000	0.5495	50.00- 150.00	100.00
8.319	8.319 (0.581)	49	6325			0.00- 97.46	56.06
8.292	8.292 (0.579)	66	3425			0.00- 79.98	30.36
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.623)	101	50830	0.50000	0.5727	50.00- 150.00	100.00
8.928	8.928 (0.623)	103	32098			12.90- 112.90	63.15
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.710)	151	23375	0.50000	0.5767	50.00- 150.00	100.00
10.172	10.172 (0.710)	153	14651			13.38- 113.38	62.68
10.117	10.117 (0.706)	101	33042			83.36- 183.36	141.36
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.255	10.255 (0.716)	61	38114	0.50000	0.5228	50.00- 150.00	100.00
10.255	10.255 (0.716)	96	11941			0.00- 83.70	31.33
10.283	10.283 (0.718)	98	6111			0.00- 71.10	16.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 Carbon Disulfide						CAS #: 75-15-0	
10.836	10.836 (0.757)	76	42584	0.50000	0.5067	50.00- 150.00	100.00
54 Methylene Chloride						CAS #: 75-09-2	
11.416	11.416 (0.797)	49	67493	0.50000	0.8782	50.00- 150.00	100.00
11.416	11.416 (0.797)	84	22902			0.00- 83.64	33.93
11.416	11.416 (0.797)	51	22467			0.00- 81.01	33.29
60 MTBE						CAS #: 1634-04-4	
11.748	11.748 (0.820)	73	17144	0.50000	0.3667	50.00- 150.00	100.00(a)
11.776	11.776 (0.822)	57	8081			0.00- 88.49	47.14
11.748	11.748 (0.820)	41	10741			0.00- 95.41	62.65
61 trans-1,2-Dichloroethene						CAS #: 156-60-5	
11.859	11.859 (0.828)	96	14428	0.50000	0.4946	50.00- 150.00	100.00(a)
11.859	11.859 (0.828)	61	35012			188.86- 288.86	242.67
11.886	11.886 (0.830)	98	6599			9.25- 109.25	45.74
65 Hexane						CAS #: 110-54-3	
12.218	12.218 (0.853)	57	34314	0.50000	0.4762	50.00- 150.00	100.00(a)
12.218	12.218 (0.853)	43	27048			22.81- 122.81	78.82
12.246	12.246 (0.855)	86	3283			0.00- 58.81	9.57
70 1,1-Dichloroethane						CAS #: 75-34-3	
12.743	12.743 (0.890)	63	41453	0.50000	0.5295	50.00- 150.00	100.00
12.743	12.743 (0.890)	65	11874			0.00- 78.79	28.64
75 2-Butanone						CAS #: 78-93-3	
13.822	13.822 (0.965)	72	6125	0.50000	0.4970	50.00- 150.00	100.00(a)
13.822	13.822 (0.965)	43	38813			700.25- 800.25	633.68
13.849	13.849 (0.967)	57	5020			11.32- 111.32	81.96
76 cis-1,2-Dichloroethene						CAS #: 156-59-2	
13.849	13.849 (0.967)	61	29898	0.50000	0.5236	50.00- 150.00	100.00
13.849	13.849 (0.967)	96	12999			0.00- 94.94	43.48
13.849	13.849 (0.967)	98	7319			0.00- 77.78	24.48
80 Tetrahydrofuran						CAS #: 109-99-9	
14.319	14.319 (1.000)	42	20297	0.50000	0.4219	50.00- 150.00	100.00(a)
14.319	14.319 (1.000)	71	6380			0.00- 73.86	31.43
14.319	14.319 (1.000)	72	4883			0.00- 75.11	24.06
82 Chloroform						CAS #: 67-66-3	
14.402	14.402 (1.006)	83	25844	0.50000	0.4907	50.00- 150.00	100.00(a)
14.402	14.402 (1.006)	85	18372			13.85- 113.85	71.09

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 (1.031)	97	27082	0.50000	0.4766	50.00- 150.00	100.00(a)
14.789	14.789 (1.033)	99	20219			15.12- 115.12	74.66
85 Cyclohexane					CAS #: 110-82-7		
14.762	14.762 (1.031)	84	12877	0.50000	0.4530	50.00- 150.00	100.00(a)
14.789	14.789 (1.033)	56	30494			175.01- 275.01	236.81
14.789	14.789 (1.033)	41	21190			92.46- 192.46	164.56
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.050)	119	30369	0.50000	0.5339	50.00- 150.00	100.00
15.038	15.038 (1.050)	117	29377			52.22- 152.22	96.73
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.960)	78	34843	0.50000	0.5284	50.00- 150.00	100.00
15.425	15.425 (0.959)	77	9469			0.00- 73.75	27.18
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.342	15.342 (1.071)	57	86076	0.50000	0.4988	50.00- 150.00	100.00(a)
15.370	15.370 (1.073)	56	30318			0.00- 84.79	35.22
15.370	15.370 (1.073)	41	31033			0.00- 82.30	36.05
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.967)	62	30693	0.50000	0.5359	50.00- 150.00	100.00
15.564	15.564 (0.967)	64	9638			0.00- 79.85	31.40
94 Heptane					CAS #: 142-82-5		
15.674	15.674 (0.974)	71	11058	0.50000	0.4898	50.00- 150.00	100.00(a)
15.647	15.647 (0.972)	43	34138			263.55- 363.55	308.72
15.647	15.647 (0.972)	57	14534			101.27- 201.27	131.43
101 Trichloroethene					CAS #: 79-01-6		
16.559	16.559 (1.029)	95	16639	0.50000	0.5459	50.00- 150.00	100.00
16.559	16.559 (1.029)	130	13257			35.92- 135.92	79.67
16.559	16.559 (1.029)	97	10829			14.51- 114.51	65.08
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.060)	63	19431	0.50000	0.5528	50.00- 150.00	100.00
17.057	17.057 (1.060)	62	13572			23.30- 123.30	69.85
17.057	17.057 (1.060)	41	17185			36.21- 136.21	88.44
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.088)	83	26452	0.50000	0.4991	50.00- 150.00	100.00(a)
17.499	17.499 (1.088)	85	18305			13.63- 113.63	69.20
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.136)	75	18146	0.50000	0.4704	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 (1.136)	77	9144			0.00- 85.26	50.39
18.273	18.273 (1.136)	39	20316			53.87- 153.87	111.96
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.148)	58	14241	0.50000	0.4305	50.00- 150.00	100.00(a)
18.467	18.467 (1.148)	43	37757			234.93- 334.93	265.13
18.439	18.439 (1.146)	85	4717			0.00- 75.34	33.12
114 Toluene					CAS #: 108-88-3		
18.826	18.826 (1.170)	91	42136	0.50000	0.5530	50.00- 150.00	100.00
18.826	18.826 (1.170)	92	26356			11.96- 111.96	62.55
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	21180	0.50000	0.5081	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	7793			0.00- 81.98	36.79
19.241	19.241 (0.903)	39	19876			41.64- 141.64	93.84
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.600	19.600 (0.920)	97	16152	0.50000	0.6070	50.00- 150.00	100.00
19.600	19.600 (0.920)	99	10894			14.05- 114.05	67.45
19.600	19.600 (0.920)	83	13061			33.78- 133.78	80.86
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	20238	0.50000	0.5860	50.00- 150.00	100.00
19.766	19.766 (0.927)	129	14585			23.13- 123.13	72.07
19.766	19.766 (0.927)	131	18343			29.18- 129.18	90.64
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	28639	0.50000	0.5824	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	22287			27.29- 127.29	77.82
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	25440	0.50000	0.5938	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	24254			45.70- 145.70	95.34
127 Chlorobenzene					CAS #: 108-90-7		
21.342	21.342 (1.001)	112	41985	0.50000	0.6414	50.00- 150.00	100.00
21.342	21.342 (1.001)	114	13126			0.00- 81.49	31.26
21.342	21.342 (1.001)	77	40492			19.57- 119.57	96.44
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.453 (1.006)	106	16755	0.50000	0.5488	50.00- 150.00	100.00
21.425	21.425 (1.005)	91	66676			312.17- 412.17	397.95
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	27051	0.50000	0.6800	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
129 m,p-Xylene (continued)							
21.619	21.619 (1.014)	91	56104			179.26- 279.26	207.40
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	21012	0.50000	0.5900	50.00- 150.00	100.00
22.338	22.338 (1.048)	91	53967			197.42- 297.42	256.84
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	31474	0.50000	0.5200	50.00- 150.00	100.00
22.365	22.365 (1.049)	78	26354			14.43- 114.43	83.73
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	31808	0.50000	0.6495	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	14778			0.46- 100.46	46.46
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	61630	0.50000	0.5588	50.00- 150.00	100.00
22.918	22.918 (1.075)	120	18741			0.00- 77.67	30.41
22.891	22.891 (1.074)	51	13582			0.00- 71.10	22.04
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	53094	0.50000	0.7824	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	35157			13.97- 113.97	66.22
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	109661	0.50000	0.7040	50.00- 150.00	100.00
23.610	23.610 (1.108)	120	25598			0.00- 71.33	23.34
23.582	23.582 (1.106)	105	3817			0.00- 53.45	3.48
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	92600	0.50000	0.7076	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	29825			0.00- 82.31	32.21
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	78004	0.50000	0.7485	50.00- 150.00	100.00
23.858	23.858 (1.119)	120	39628			0.15- 100.15	50.80
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	75411	0.50000	0.7421	50.00- 150.00	100.00
24.494	24.494 (1.149)	120	34432			0.00- 97.16	45.66
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	61098	0.50000	0.7814	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	40691			14.61- 114.61	66.60
25.075	25.075 (1.176)	111	27254			0.00- 93.11	44.61

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	60344	0.50000	0.7438	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	41073			13.36- 113.36	68.06
25.213	25.213 (1.183)	111	28692			0.00- 92.11	47.55
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.434	25.434 (1.193)	91	77394	0.50000	0.6592	50.00- 150.00	100.00
25.434	25.434 (1.193)	126	14926			0.00- 68.07	19.29
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	60595	0.50000	0.7651	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	40740			13.29- 113.29	67.23
25.849	25.849 (1.213)	111	29530			0.00- 95.36	48.73
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.178)	83	17448	0.50000	0.4816	50.00- 150.00	100.00(a)
16.836	16.836 (1.176)	98	7617			0.00- 95.26	43.66
16.836	16.836 (1.176)	55	25643			110.72- 210.72	146.97

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: 7072407.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 0.5ppbv (200ppbv)

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	342619	-4.41
97 1,4-Difluorobenze	1288556	773134	1803978	1217409	-5.52
126 Chlorobenzene-d5	1202945	721767	1684123	1071385	-10.94

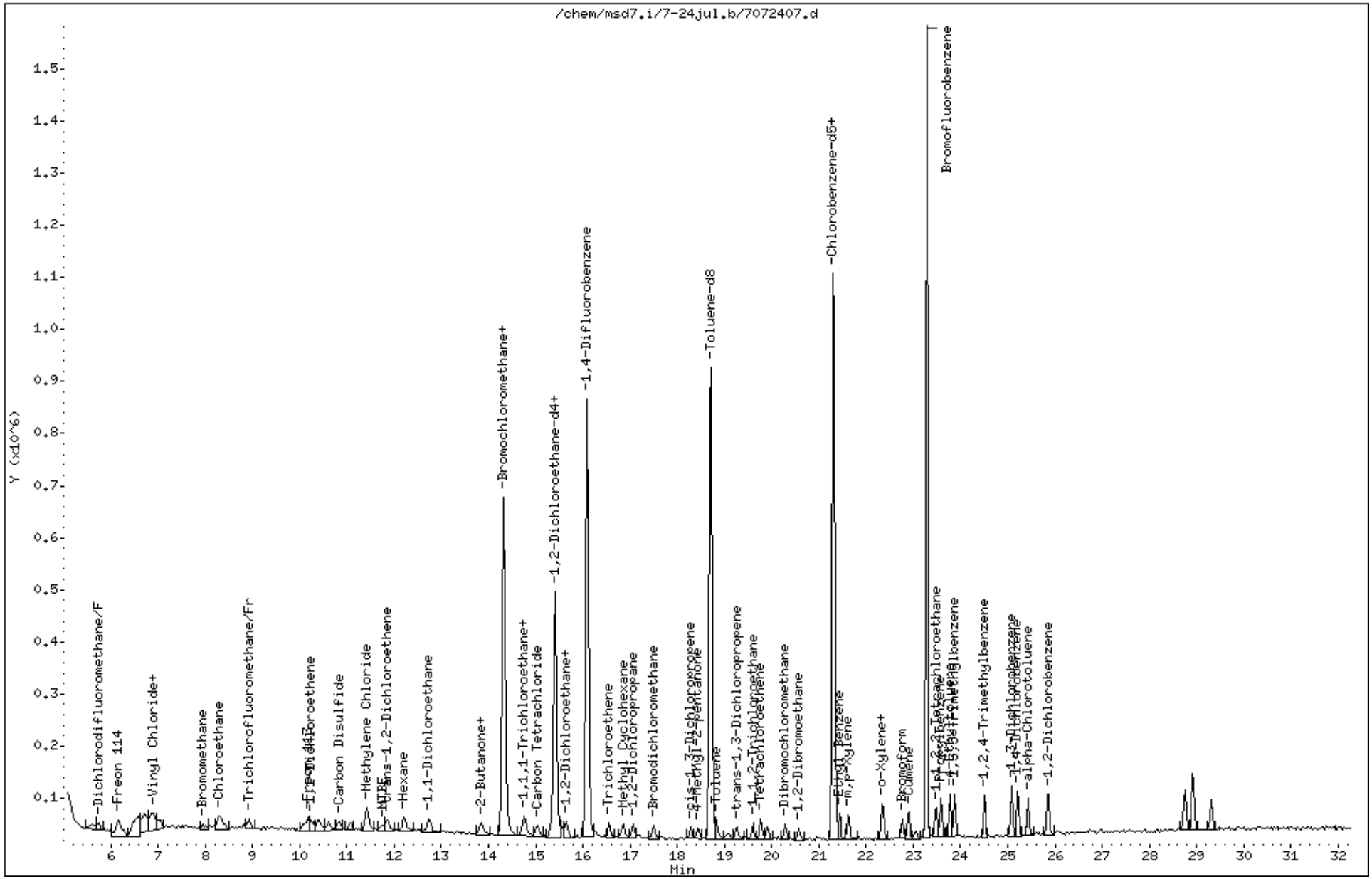
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.32	-0.19
97 1,4-Difluorobenze	16.12	15.79	16.45	16.09	-0.17
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

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.

Data File: /chem/msd7.i/7-24jul.b/7072407.d
Date : 24-JUL-2008 12:16
Client ID: Level 2
Sample Info: 0.5mL#1541-210

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

Column phase: RTx-624



0086

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-24jul.b/7072415.d
Lab Smp Id: ICAL Level 3 Client Smp ID: Level 3
Inj Date : 24-JUL-2008 19:21
Operator : xp Inst ID: msd7.i
Smp Info : 2.0mL#1541-210
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:01 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 19:21 Cal File: 7072415.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	349339	25.0000		50.00- 150.00		100.00
14.320	14.320 (1.000)	128	274057			27.95- 127.95		78.45
14.320	14.320 (1.000)	49	1064618			339.50- 439.50		304.75
* 97 1,4-Difluorobenzene						CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1227596	25.0000		50.00- 150.00		100.00
16.089	16.089 (1.000)	88	188837			0.00- 65.01		15.38
* 126 Chlorobenzene-d5						CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1107085	25.0000		50.00- 150.00		100.00
21.287	21.287 (1.000)	82	637530			7.70- 107.70		57.59
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
15.426	15.426 (1.075)	65	770357	25.0000	24.629	50.00- 150.00		100.00
15.426	15.426 (1.075)	67	333820			0.00- 97.26		43.33
$ 113 Toluene-d8						CAS #: 2037-26-5		
18.716	18.716 (1.163)	98	1141851	25.0000	24.076	50.00- 150.00		100.00
18.716	18.716 (1.163)	70	163618			0.00- 64.06		14.33

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	792202			17.06- 117.06	69.38
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	653335	25.0000	24.840	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	931596			90.47- 190.47	142.59
23.278	23.278 (1.092)	176	629595			46.73- 146.73	96.37
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	84401	2.00000	2.188	50.00- 150.00	100.00
5.610	5.610 (0.391)	42	50646			17.57- 117.57	60.01
5.638	5.638 (0.393)	39	63891			28.91- 128.91	75.70
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	172313	2.00000	1.970	50.00- 150.00	100.00
5.721	5.721 (0.399)	87	56425			0.00- 83.12	32.75
16 Freon 114					CAS #: 76-14-2		
6.191	6.191 (0.431)	135	115346	2.00000	2.030	50.00- 150.00	100.00
6.191	6.191 (0.431)	137	37063			0.00- 82.77	32.13
18 Chloromethane					CAS #: 74-87-3		
6.495	6.495 (0.453)	50	100761	2.00000	2.192	50.00- 150.00	100.00
6.495	6.495 (0.453)	52	30149			0.00- 80.60	29.92
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	89071	2.00000	1.932	50.00- 150.00	100.00
6.854	6.854 (0.478)	64	26039			0.00- 79.39	29.23
22 1,3-Butadiene					CAS #: 106-99-0		
6.910	6.910 (0.482)	54	83567	2.00000	1.932	50.00- 150.00	100.00
6.910	6.910 (0.482)	39	82815			53.85- 153.85	99.10
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.557)	94	42196	2.00000	1.680	50.00- 150.00	100.00
8.016	8.016 (0.559)	96	45619			35.61- 135.61	108.11
27 Chloroethane					CAS #: 75-00-3		
8.320	8.320 (0.580)	64	36768	2.00000	1.756	50.00- 150.00	100.00
8.320	8.320 (0.580)	49	18022			0.00- 97.46	49.02
8.320	8.320 (0.580)	66	13583			0.00- 79.98	36.94
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	171306	2.00000	1.893	50.00- 150.00	100.00
8.900	8.900 (0.620)	103	107454			12.90- 112.90	62.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.398	9.398 (0.655)	45	32056	2.00000	1.687	50.00- 150.00	100.00(a)
9.398	9.398 (0.655)	43	7988			0.00- 72.32	24.92
9.426	9.426 (0.657)	46	10899			0.00- 86.95	34.00
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	73078	2.00000	1.768	50.00- 150.00	100.00
10.145	10.145 (0.707)	153	48681			13.38- 113.38	66.62
10.145	10.145 (0.707)	101	99790			83.36- 183.36	136.55
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.255	10.255 (0.715)	61	140803	2.00000	1.894	50.00- 150.00	100.00
10.283	10.283 (0.717)	96	48223			0.00- 83.70	34.25
10.255	10.255 (0.715)	98	34772			0.00- 71.10	24.70
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	43414	2.00000	1.906	50.00- 150.00	100.00(a)
10.421	10.421 (0.726)	43	171816			337.38- 437.38	395.76
46 2-Propanol					CAS #: 67-63-0		
10.615	10.615 (0.740)	45	149258	2.00000	1.594	50.00- 150.00	100.00(a)
10.615	10.615 (0.740)	43	39041			0.00- 74.82	26.16
10.642	10.642 (0.742)	59	8007			0.00- 53.58	5.36
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.836 (0.755)	76	163154	2.00000	1.904	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	22990	2.00000	1.708	50.00- 150.00	100.00
11.085	11.085 (0.773)	41	93757			426.83- 526.83	407.82
54 Methylene Chloride					CAS #: 75-09-2		
11.416	11.416 (0.796)	49	129336	2.00000	1.650	50.00- 150.00	100.00
11.416	11.416 (0.796)	84	44507			0.00- 83.64	34.41
11.416	11.416 (0.796)	51	39122			0.00- 81.01	30.25
60 MTBE					CAS #: 1634-04-4		
11.748	11.748 (0.819)	73	52800	2.00000	1.108	50.00- 150.00	100.00
11.748	11.748 (0.819)	57	20624			0.00- 88.49	39.06
11.776	11.776 (0.821)	41	24999			0.00- 95.41	47.35
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.859	11.859 (0.827)	96	60589	2.00000	2.037	50.00- 150.00	100.00
11.859	11.859 (0.827)	61	137154			188.86- 288.86	226.37
11.859	11.859 (0.827)	98	37325			9.25- 109.25	61.60

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	139916	2.00000	1.904	50.00- 150.00	100.00
12.218	12.218 (0.852)	43	101993			22.81- 122.81	72.90
12.218	12.218 (0.852)	86	14092			0.00- 58.81	10.07
69 Vinyl Acetate					CAS #: 108-05-4		
12.744	12.744 (0.888)	86	11858	2.00000	1.986	50.00- 150.00	100.00(a)
12.716	12.716 (0.886)	43	237043			2315.51-2415.51	1999.01
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.744	12.744 (0.888)	63	153036	2.00000	1.917	50.00- 150.00	100.00
12.744	12.744 (0.888)	65	42671			0.00- 78.79	27.88
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	22625	2.00000	1.800	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	164165			700.25- 800.25	725.59
13.822	13.822 (0.963)	57	12343			11.32- 111.32	54.55
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.850	13.850 (0.965)	61	110422	2.00000	1.897	50.00- 150.00	100.00
13.850	13.850 (0.965)	96	50988			0.00- 94.94	46.18
13.850	13.850 (0.965)	98	32353			0.00- 77.78	29.30
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (0.998)	42	85431	2.00000	1.742	50.00- 150.00	100.00
14.320	14.320 (0.998)	71	18912			0.00- 73.86	22.14
14.320	14.320 (0.998)	72	25634			0.00- 75.11	30.01
82 Chloroform					CAS #: 67-66-3		
14.403	14.403 (1.004)	83	102866	2.00000	1.916	50.00- 150.00	100.00
14.403	14.403 (1.004)	85	67499			13.85- 113.85	65.62
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	111665	2.00000	1.927	50.00- 150.00	100.00
14.762	14.762 (1.029)	99	68807			15.12- 115.12	61.62
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	56719	2.00000	1.957	50.00- 150.00	100.00
14.790	14.790 (1.031)	56	121369			175.01- 275.01	213.98
14.790	14.790 (1.031)	41	78334			92.46- 192.46	138.11
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.039	15.039 (1.048)	119	107755	2.00000	1.858	50.00- 150.00	100.00
15.039	15.039 (1.048)	117	109070			52.22- 152.22	101.22
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.960)	78	132558	2.00000	1.994	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	33299			0.00- 73.75	25.12
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	318453	2.00000	1.810	50.00- 150.00	100.00
15.370	15.370 (1.071)	56	110917			0.00- 84.79	34.83
15.370	15.370 (1.071)	41	104577			0.00- 82.30	32.84
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.967)	62	113925	2.00000	1.972	50.00- 150.00	100.00
15.564	15.564 (0.967)	64	35955			0.00- 79.85	31.56
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.972)	71	42248	2.00000	1.856	50.00- 150.00	100.00
15.647	15.647 (0.972)	43	138167			263.55- 363.55	327.04
15.647	15.647 (0.972)	57	66905			101.27- 201.27	158.36
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.031)	95	59206	2.00000	1.926	50.00- 150.00	100.00
16.587	16.587 (1.031)	130	51181			35.92- 135.92	86.45
16.587	16.587 (1.031)	97	39470			14.51- 114.51	66.67
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.060)	63	65339	2.00000	1.844	50.00- 150.00	100.00
17.057	17.057 (1.060)	62	46399			23.30- 123.30	71.01
17.057	17.057 (1.060)	41	56298			36.21- 136.21	86.16
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.069)	88	25926	2.00000	1.774	50.00- 150.00	100.00(a)
17.195	17.195 (1.069)	58	35955			81.32- 181.32	138.68
17.195	17.195 (1.069)	57	10826			0.00- 93.19	41.76
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.088)	83	100205	2.00000	1.875	50.00- 150.00	100.00
17.499	17.499 (1.088)	85	60448			13.63- 113.63	60.32
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.136)	75	67353	2.00000	1.731	50.00- 150.00	100.00
18.273	18.273 (1.136)	77	21928			0.00- 85.26	32.56
18.273	18.273 (1.136)	39	68893			53.87- 153.87	102.29
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.148)	58	52270	2.00000	1.567	50.00- 150.00	100.00
18.467	18.467 (1.148)	43	157827			234.93- 334.93	301.95
18.467	18.467 (1.148)	85	12269			0.00- 75.34	23.47

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	146884	2.00000	1.912	50.00- 150.00	100.00
18.826	18.826 (1.170)	92	90030			11.96- 111.96	61.29
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	80053	2.00000	1.859	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	24490			0.00- 81.98	30.59
19.269	19.269 (0.904)	39	73833			41.64- 141.64	92.23
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	51787	2.00000	1.883	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	35066			14.05- 114.05	67.71
19.601	19.601 (0.920)	83	45703			33.78- 133.78	88.25
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	69989	2.00000	1.961	50.00- 150.00	100.00
19.767	19.767 (0.927)	129	50863			23.13- 123.13	72.67
19.767	19.767 (0.927)	131	54703			29.18- 129.18	78.16
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	74246	2.00000	1.624	50.00- 150.00	100.00(a)
19.905	19.905 (0.934)	43	161016			161.84- 261.84	216.87
19.905	19.905 (0.934)	100	7382			0.00- 59.97	9.94
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	91354	2.00000	1.798	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	67937			27.29- 127.29	74.37
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	79235	2.00000	1.790	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	71867			45.70- 145.70	90.70
127 Chlorobenzene					CAS #: 108-90-7		
21.343	21.343 (1.001)	112	134591	2.00000	1.990	50.00- 150.00	100.00
21.343	21.343 (1.001)	114	41783			0.00- 81.49	31.04
21.343	21.343 (1.001)	77	87905			19.57- 119.57	65.31
128 Ethyl Benzene					CAS #: 100-41-4		
21.426	21.426 (1.005)	106	64251	2.00000	2.037	50.00- 150.00	100.00
21.426	21.426 (1.005)	91	231790			312.17- 412.17	360.76
129 m,p-Xylene					CAS #: 108-38-3		
21.619	21.619 (1.014)	106	73281	2.00000	1.783	50.00- 150.00	100.00
21.619	21.619 (1.014)	91	182063			179.26- 279.26	248.45
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	67459	2.00000	1.833	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	172338			197.42- 297.42	255.47
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	110179	2.00000	1.762	50.00- 150.00	100.00
22.366	22.366 (1.049)	78	70142			14.43- 114.43	63.66
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	87938	2.00000	1.738	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	44020			0.46- 100.46	50.06
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	213390	2.00000	1.872	50.00- 150.00	100.00
22.919	22.919 (1.075)	120	59438			0.00- 77.67	27.85
22.891	22.891 (1.074)	51	46408			0.00- 71.10	21.75
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	135327	2.00000	1.930	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	88437			13.97- 113.97	65.35
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	328288	2.00000	2.040	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	65353			0.00- 71.33	19.91
23.582	23.582 (1.106)	105	12039			0.00- 53.45	3.67
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	271565	2.00000	2.008	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	85533			0.00- 82.31	31.50
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	220338	2.00000	2.046	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	106053			0.15- 100.15	48.13
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	208614	2.00000	1.987	50.00- 150.00	100.00
24.495	24.495 (1.149)	120	97978			0.00- 97.16	46.97
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	162220	2.00000	2.008	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	108599			14.61- 114.61	66.95
25.075	25.075 (1.176)	111	68897			0.00- 93.11	42.47
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	175589	2.00000	2.095	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	105320			13.36- 113.36	59.98
25.213	25.213 (1.183)	111	70233			0.00- 92.11	40.00

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	230505	2.00000	1.900	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	42077			0.00- 68.07	18.25
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	173992	2.00000	2.126	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	106117			13.29- 113.29	60.99
25.877	25.877 (1.214)	111	77656			0.00- 95.36	44.63
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	121455	2.00000	2.744	50.00- 150.00	100.00
28.753	28.753 (1.349)	182	113828			43.65- 143.65	93.72
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	111829	2.00000	2.877	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	76675			13.81- 113.81	68.56
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	215991	2.00000	2.581	50.00- 150.00	100.00
29.306	29.306 (1.375)	127	28070			0.00- 62.45	13.00
29 Isopentane					CAS #: 78-78-4		
8.320	8.320 (0.580)	43	124912	2.00000	1.939	50.00- 150.00	100.00(a)
8.320	8.320 (0.580)	57	73236			11.13- 111.13	58.63
19 Butane					CAS #: 106-97-8		
6.716	6.716 (0.468)	58	16822	2.00000	1.876	50.00- 150.00	100.00(a)
6.744	6.744 (0.470)	43	160061			840.33- 940.33	951.50
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	64460	2.00000	1.745	50.00- 150.00	100.00
16.863	16.863 (1.175)	98	30419			0.00- 95.26	47.19
16.836	16.836 (1.173)	55	112500			110.72- 210.72	174.53
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	85904	2.00000	1.974	50.00- 150.00	100.00(a)
11.444	11.444 (0.798)	41	26053			0.00- 80.33	30.33
11.472	11.472 (0.800)	57	8682			0.00- 60.11	10.11

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: 7072415.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	349339	-2.54
97 1,4-Difluorobenze	1288556	773134	1803978	1227596	-4.73
126 Chlorobenzene-d5	1202945	721767	1684123	1107085	-7.97

		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

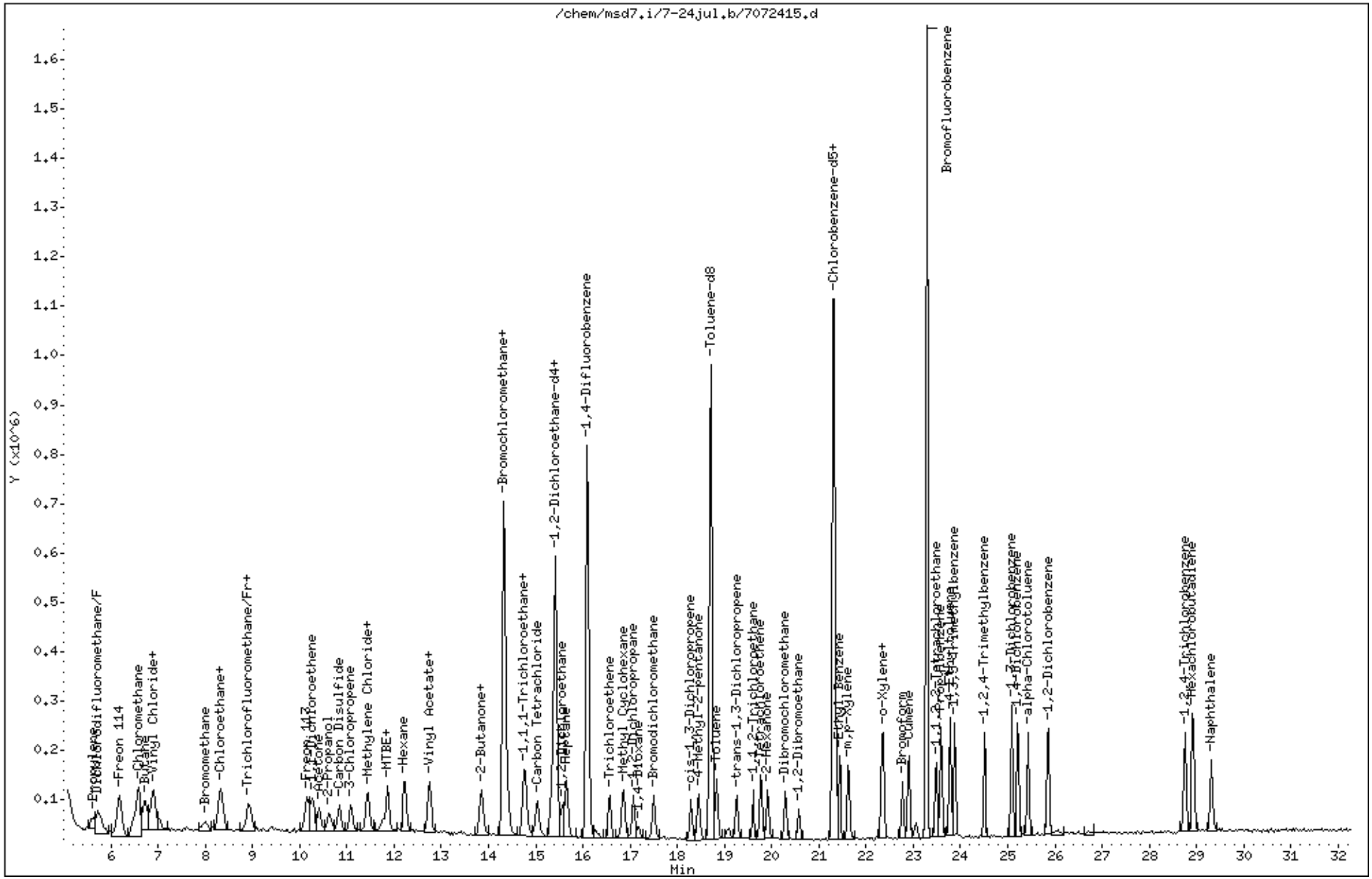
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd7.i/7-24jul.b/7072415.d
Date : 24-JUL-2008 19:21
Client ID: Level 3
Sample Info: 2.0mL#1541-210

Instrument: msd7.i

Operator: xp
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-24jul.b/7072409.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 24-JUL-2008 13:42
Operator : ra Inst ID: msd7.i
Smp Info : 25mL#1541-210
Misc Info : 25ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:02 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 13:42 Cal File: 7072409.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	371497	25.0000		50.00- 150.00		100.00
14.347	14.347 (1.000)	128	280404			27.95- 127.95		75.48
14.320	14.320 (1.000)	49	1385491			339.50- 439.50		372.95
* 97 1,4-Difluorobenzene						CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1284102	25.0000		50.00- 150.00		100.00
16.089	16.089 (1.000)	88	187101			0.00- 65.01		14.57
* 126 Chlorobenzene-d5						CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1226674	25.0000		50.00- 150.00		100.00
21.315	21.315 (1.000)	82	696658			7.70- 107.70		56.79
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
15.426	15.426 (1.075)	65	820669	25.0000	24.672	50.00- 150.00		100.00
15.426	15.426 (1.075)	67	384151			0.00- 97.26		46.81
$ 113 Toluene-d8						CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1252583	25.0000	25.249	50.00- 150.00		100.00
18.716	18.716 (1.161)	70	185437			0.00- 64.06		14.80

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	834786			17.06- 117.06	66.65
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	723569	25.0000	24.828	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1012180			90.47- 190.47	139.89
23.278	23.278 (1.092)	176	699646			46.73- 146.73	96.69
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	1027248	25.0000	25.041	50.00- 150.00	100.00
5.610	5.610 (0.391)	42	719962			17.57- 117.57	70.09
5.610	5.610 (0.391)	39	818126			28.91- 128.91	79.64
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.721	5.721 (0.399)	85	2358387	25.0000	25.360	50.00- 150.00	100.00
5.721	5.721 (0.399)	87	730793			0.00- 83.12	30.99
16 Freon 114					CAS #: 76-14-2		
6.163	6.163 (0.430)	135	1535562	25.0000	25.408	50.00- 150.00	100.00
6.163	6.163 (0.430)	137	484911			0.00- 82.77	31.58
18 Chloromethane					CAS #: 74-87-3		
6.467	6.467 (0.451)	50	1265514	25.0000	25.892	50.00- 150.00	100.00
6.467	6.467 (0.451)	52	362851			0.00- 80.60	28.67
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	1244630	25.0000	25.390	50.00- 150.00	100.00
6.854	6.854 (0.478)	64	342765			0.00- 79.39	27.54
22 1,3-Butadiene					CAS #: 106-99-0		
6.910	6.910 (0.482)	54	1150727	25.0000	25.023	50.00- 150.00	100.00
6.910	6.910 (0.482)	39	1189252			53.85- 153.85	103.35
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.557)	94	622360	25.0000	23.302	50.00- 150.00	100.00
8.015	8.015 (0.559)	96	589760			35.61- 135.61	94.76
27 Chloroethane					CAS #: 75-00-3		
8.347	8.347 (0.582)	64	550328	25.0000	24.719	50.00- 150.00	100.00
8.320	8.320 (0.580)	49	247944			0.00- 97.46	45.05
8.347	8.347 (0.582)	66	148492			0.00- 79.98	26.98
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	2434785	25.0000	25.302	50.00- 150.00	100.00
8.928	8.928 (0.622)	103	1522246			12.90- 112.90	62.52

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	515890	25.0000	25.525	50.00- 150.00	100.00
9.398	9.398 (0.655)	43	113050			0.00- 72.32	21.91
9.398	9.398 (0.655)	46	198363			0.00- 86.95	38.45
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	1120861	25.0000	25.505	50.00- 150.00	100.00
10.172	10.172 (0.709)	153	682043			13.38- 113.38	60.85
10.172	10.172 (0.709)	101	1447130			83.36- 183.36	129.11
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	2012360	25.0000	25.459	50.00- 150.00	100.00
10.283	10.283 (0.717)	96	684019			0.00- 83.70	33.99
10.283	10.283 (0.717)	98	429025			0.00- 71.10	21.32
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	605165	25.0000	24.985	50.00- 150.00	100.00
10.421	10.421 (0.726)	43	2340752			337.38- 437.38	386.80
46 2-Propanol					CAS #: 67-63-0		
10.615	10.615 (0.740)	45	2517227	25.0000	25.280	50.00- 150.00	100.00
10.615	10.615 (0.740)	43	666366			0.00- 74.82	26.47
10.642	10.642 (0.742)	59	75112			0.00- 53.58	2.98
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.836 (0.755)	76	2245594	25.0000	24.642	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	348631	25.0000	24.354	50.00- 150.00	100.00
11.112	11.112 (0.775)	41	1793813			426.83- 526.83	514.53
54 Methylene Chloride					CAS #: 75-09-2		
11.416	11.416 (0.796)	49	1776134	25.0000	21.315	50.00- 150.00	100.00
11.444	11.444 (0.798)	84	581852			0.00- 83.64	32.76
11.444	11.444 (0.798)	51	549568			0.00- 81.01	30.94
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	1351674	25.0000	26.667	50.00- 150.00	100.00
11.776	11.776 (0.821)	57	482328			0.00- 88.49	35.68
11.776	11.776 (0.821)	41	547614			0.00- 95.41	40.51
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	786717	25.0000	24.871	50.00- 150.00	100.00
11.886	11.886 (0.828)	61	1928245			188.86- 288.86	245.10
11.886	11.886 (0.828)	98	494843			9.25- 109.25	62.90

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	2012304	25.0000	25.757	50.00- 150.00	100.00
12.246	12.246 (0.854)	43	1423085			22.81- 122.81	70.72
12.246	12.246 (0.854)	86	158770			0.00- 58.81	7.89
69 Vinyl Acetate					CAS #: 108-05-4		
12.744	12.744 (0.888)	86	149845	25.0000	23.598	50.00- 150.00	100.00
12.716	12.716 (0.886)	43	3878141			2315.51-2415.51	2588.10
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	2143164	25.0000	25.247	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	633119			0.00- 78.79	29.54
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	331155	25.0000	24.781	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	2695502			700.25- 800.25	813.97
13.822	13.822 (0.963)	57	185938			11.32- 111.32	56.15
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.850	13.850 (0.965)	61	1590778	25.0000	25.694	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	708252			0.00- 94.94	44.52
13.877	13.877 (0.967)	98	443565			0.00- 77.78	27.88
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (0.998)	42	1403588	25.0000	26.906	50.00- 150.00	100.00
14.320	14.320 (0.998)	71	298187			0.00- 73.86	21.24
14.320	14.320 (0.998)	72	320497			0.00- 75.11	22.83
82 Chloroform					CAS #: 67-66-3		
14.403	14.403 (1.004)	83	1494560	25.0000	26.173	50.00- 150.00	100.00
14.403	14.403 (1.004)	85	940390			13.85- 113.85	62.92
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	1638489	25.0000	26.594	50.00- 150.00	100.00
14.762	14.762 (1.029)	99	1033409			15.12- 115.12	63.07
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	795219	25.0000	25.804	50.00- 150.00	100.00
14.790	14.790 (1.031)	56	1830417			175.01- 275.01	230.18
14.790	14.790 (1.031)	41	1119395			92.46- 192.46	140.77
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	1577093	25.0000	25.572	50.00- 150.00	100.00
15.038	15.038 (1.048)	117	1665536			52.22- 152.22	105.61
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	1825737	25.0000	26.252	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	387903			0.00- 73.75	21.25
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	4846824	25.0000	25.903	50.00- 150.00	100.00
15.370	15.370 (1.071)	56	1675593			0.00- 84.79	34.57
15.370	15.370 (1.071)	41	1521429			0.00- 82.30	31.39
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	1598003	25.0000	26.451	50.00- 150.00	100.00
15.564	15.564 (0.966)	64	458539			0.00- 79.85	28.69
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	635050	25.0000	26.667	50.00- 150.00	100.00
15.647	15.647 (0.971)	43	2025429			263.55- 363.55	318.94
15.647	15.647 (0.971)	57	996110			101.27- 201.27	156.86
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	816992	25.0000	25.411	50.00- 150.00	100.00
16.587	16.587 (1.029)	130	726363			35.92- 135.92	88.91
16.587	16.587 (1.029)	97	535054			14.51- 114.51	65.49
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	973314	25.0000	26.254	50.00- 150.00	100.00
17.057	17.057 (1.058)	62	733456			23.30- 123.30	75.36
17.057	17.057 (1.058)	41	850786			36.21- 136.21	87.41
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	392986	25.0000	25.705	50.00- 150.00	100.00
17.195	17.195 (1.067)	58	516272			81.32- 181.32	131.37
17.195	17.195 (1.067)	57	173275			0.00- 93.19	44.09
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	1478016	25.0000	26.440	50.00- 150.00	100.00
17.499	17.499 (1.086)	85	939191			13.63- 113.63	63.54
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	1087215	25.0000	26.718	50.00- 150.00	100.00
18.273	18.273 (1.134)	77	340879			0.00- 85.26	31.35
18.273	18.273 (1.134)	39	1128455			53.87- 153.87	103.79
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	980454	25.0000	28.097	50.00- 150.00	100.00
18.467	18.467 (1.146)	43	2832555			234.93- 334.93	288.90
18.467	18.467 (1.146)	85	226784			0.00- 75.34	23.13

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	2050624	25.0000	25.518	50.00- 150.00	100.00
18.826	18.826 (1.168)	92	1257685			11.96- 111.96	61.33
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	1231565	25.0000	25.807	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	383214			0.00- 81.98	31.12
19.269	19.269 (0.904)	39	1140460			41.64- 141.64	92.60
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	743763	25.0000	24.413	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	466535			14.05- 114.05	62.73
19.601	19.601 (0.920)	83	622728			33.78- 133.78	83.73
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	981275	25.0000	24.816	50.00- 150.00	100.00
19.767	19.767 (0.927)	129	728015			23.13- 123.13	74.19
19.794	19.794 (0.929)	131	757320			29.18- 129.18	77.18
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	1330513	25.0000	26.266	50.00- 150.00	100.00
19.905	19.905 (0.934)	43	2848006			161.84- 261.84	214.05
19.905	19.905 (0.934)	100	128046			0.00- 59.97	9.62
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	1430601	25.0000	25.412	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	1129295			27.29- 127.29	78.94
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	1240399	25.0000	25.287	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	1147269			45.70- 145.70	92.49
127 Chlorobenzene					CAS #: 108-90-7		
21.370	21.370 (1.003)	112	1842359	25.0000	24.581	50.00- 150.00	100.00
21.370	21.370 (1.003)	114	570878			0.00- 81.49	30.99
21.343	21.343 (1.001)	77	1133151			19.57- 119.57	61.51
128 Ethyl Benzene					CAS #: 100-41-4		
21.425	21.425 (1.005)	106	884222	25.0000	25.296	50.00- 150.00	100.00
21.425	21.425 (1.005)	91	3048950			312.17- 412.17	344.82
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	1106669	25.0000	24.297	50.00- 150.00	100.00
21.647	21.647 (1.016)	91	2535482			179.26- 279.26	229.11
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	1021854	25.0000	25.063	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	2465984			197.42- 297.42	241.32
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	1701246	25.0000	24.548	50.00- 150.00	100.00
22.366	22.366 (1.049)	78	1048806			14.43- 114.43	61.65
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	1371581	25.0000	24.463	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	706364			0.46- 100.46	51.50
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	3008028	25.0000	23.820	50.00- 150.00	100.00
22.919	22.919 (1.075)	120	830816			0.00- 77.67	27.62
22.891	22.891 (1.074)	51	631356			0.00- 71.10	20.99
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	1756145	25.0000	22.604	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	1091048			13.97- 113.97	62.13
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	4119755	25.0000	23.101	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	862595			0.00- 71.33	20.94
23.582	23.582 (1.106)	105	137611			0.00- 53.45	3.34
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	3448744	25.0000	23.016	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	1121065			0.00- 82.31	32.51
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	2662972	25.0000	22.318	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	1342554			0.15- 100.15	50.42
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	2596440	25.0000	22.317	50.00- 150.00	100.00
24.495	24.495 (1.149)	120	1232126			0.00- 97.16	47.45
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	1941333	25.0000	21.685	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	1226978			14.61- 114.61	63.20
25.075	25.075 (1.176)	111	828902			0.00- 93.11	42.70
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	2032714	25.0000	21.884	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	1284205			13.36- 113.36	63.18
25.213	25.213 (1.183)	111	838393			0.00- 92.11	41.25

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	3110264	25.0000	23.137	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	540809			0.00- 68.07	17.39
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	1959826	25.0000	21.613	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	1211365			13.29- 113.29	61.81
25.877	25.877 (1.214)	111	871864			0.00- 95.36	44.49
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	783051	25.0000	15.969	50.00- 150.00	100.00
28.753	28.753 (1.349)	182	717534			43.65- 143.65	91.63
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	779982	25.0000	18.108	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	471363			13.81- 113.81	60.43
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	1359581	25.0000	14.661	50.00- 150.00	100.00
29.306	29.306 (1.375)	127	167250			0.00- 62.45	12.30
29 Isopentane					CAS #: 78-78-4		
8.320	8.320 (0.580)	43	1763832	25.0000	25.750	50.00- 150.00	100.00
8.320	8.320 (0.580)	57	1081196			11.13- 111.13	61.30
19 Butane					CAS #: 106-97-8		
6.716	6.716 (0.468)	58	250074	25.0000	26.221	50.00- 150.00	100.00
6.716	6.716 (0.468)	43	2167604			840.33- 940.33	866.79
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	1014008	25.0000	25.815	50.00- 150.00	100.00
16.863	16.863 (1.175)	98	464928			0.00- 95.26	45.85
16.863	16.863 (1.175)	55	1654912			110.72- 210.72	163.21
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	1245984	25.0000	26.931	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	326876			0.00- 80.33	26.23
11.444	11.444 (0.798)	57	135150			0.00- 60.11	10.85

Report Date: 25-Jul-2008 08:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072409.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 25ppbv (200ppbv)

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	371497	3.64
97 1,4-Difluorobenze	1288556	773134	1803978	1284102	-0.35
126 Chlorobenzene-d5	1202945	721767	1684123	1226674	1.97

		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.

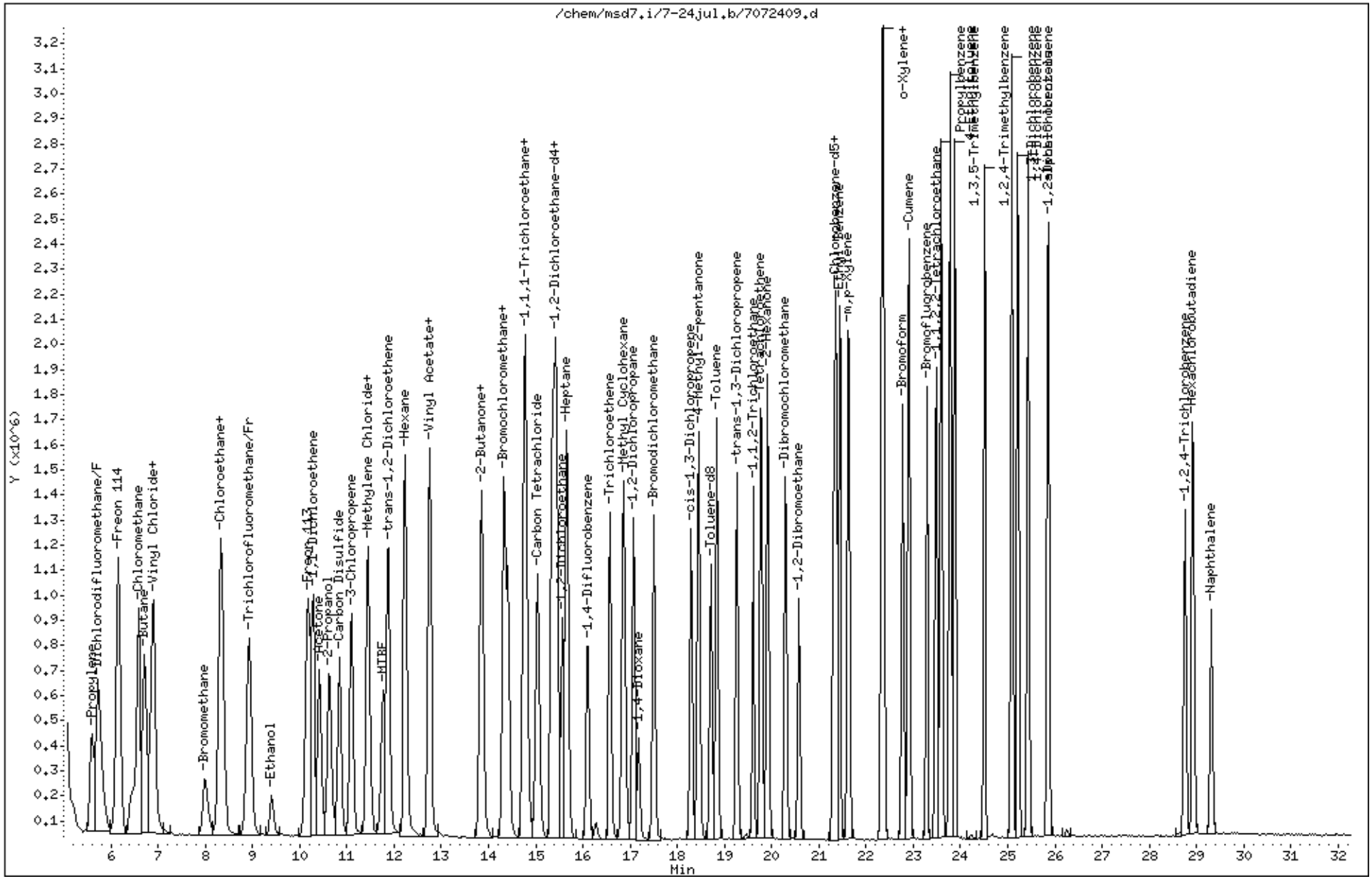
0106

Data File: /chem/msd7.i/7-24jul.b/7072409.d
Date : 24-JUL-2008 13:42
Client ID: Level 4
Sample Info: 25mL#1541-210

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/7-24jul.b/7072410.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 24-JUL-2008 14:21
Operator : ra Inst ID: msd7.i
Smp Info : 50mL#1541-210
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:02 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 14:21 Cal File: 7072410.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	358443	25.0000		80.00- 120.00	100.00
14.347	14.347 (1.000)	128	282361			28.77- 128.77	78.77
14.320	14.320 (1.000)	49	1671143			416.22- 516.22	466.22
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1288556	25.0000		80.00- 120.00	100.00
16.089	16.089 (1.000)	88	197818			0.00- 65.35	15.35
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1202945	25.0000		80.00- 120.00	100.00
21.315	21.315 (1.000)	82	705512			7.70- 107.70	58.65
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.426	15.426 (1.075)	65	828744	25.0000	25.822	80.00- 120.00	100.00
15.426	15.426 (1.075)	67	410815			0.00- 97.26	49.57
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1276651	25.0000	25.645	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	178117			0.00- 64.06	13.95

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	852537			17.06- 117.06	66.78
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	744345	25.0000	26.045	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	1021018			87.17- 187.17	137.17
23.278	23.278 (1.092)	176	719629			46.68- 146.68	96.68
11 Propylene					CAS #: 115-07-1		
5.582	5.582 (0.389)	41	1999280	50.0000	50.511	80.00- 120.00	100.00
5.582	5.582 (0.389)	42	1412910			17.57- 117.57	70.67
5.582	5.582 (0.389)	39	1625465			28.91- 128.91	81.30
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.721	5.721 (0.399)	85	4613712	50.0000	51.418	80.00- 120.00	100.00
5.721	5.721 (0.399)	87	1477147			0.00- 83.12	32.02
16 Freon 114					CAS #: 76-14-2		
6.163	6.163 (0.430)	135	3006401	50.0000	51.556	80.00- 120.00	100.00
6.163	6.163 (0.430)	137	970446			0.00- 82.28	32.28
18 Chloromethane					CAS #: 74-87-3		
6.467	6.467 (0.451)	50	2434952	50.0000	51.633	80.00- 120.00	100.00
6.467	6.467 (0.451)	52	756737			0.00- 80.60	31.08
20 Vinyl Chloride					CAS #: 75-01-4		
6.827	6.827 (0.476)	62	2468598	50.0000	52.192	80.00- 120.00	100.00
6.827	6.827 (0.476)	64	677982			0.00- 79.39	27.46
22 1,3-Butadiene					CAS #: 106-99-0		
6.882	6.882 (0.480)	54	2250131	50.0000	50.712	80.00- 120.00	100.00
6.882	6.882 (0.480)	39	2321925			53.85- 153.85	103.19
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.557)	94	1315411	50.0000	51.043	80.00- 120.00	100.00
7.988	7.988 (0.557)	96	1220791			42.81- 142.81	92.81
27 Chloroethane					CAS #: 75-00-3		
8.320	8.320 (0.580)	64	1118166	50.0000	52.054	80.00- 120.00	100.00
8.320	8.320 (0.580)	49	487263			0.00- 97.46	43.58
8.320	8.320 (0.580)	66	318426			0.00- 79.98	28.48
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.900	8.900 (0.620)	101	4730341	50.0000	50.948	80.00- 120.00	100.00
8.900	8.900 (0.620)	103	2975422			12.90- 112.90	62.90

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	1068094	50.0000	54.771	80.00- 120.00	100.00
9.398	9.398 (0.655)	43	225122			0.00- 72.32	21.08
9.398	9.398 (0.655)	46	394862			0.00- 86.95	36.97
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	2217349	50.0000	52.294	80.00- 120.00	100.00
10.172	10.172 (0.709)	153	1381432			12.30- 112.30	62.30
10.172	10.172 (0.709)	101	2873589			79.60- 179.60	129.60
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	4060102	50.0000	53.237	80.00- 120.00	100.00
10.283	10.283 (0.717)	96	1386001			0.00- 84.14	34.14
10.283	10.283 (0.717)	98	860003			0.00- 71.18	21.18
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	1225816	50.0000	52.452	80.00- 120.00	100.00
10.421	10.421 (0.726)	43	4712231			337.38- 437.38	384.42
46 2-Propanol					CAS #: 67-63-0		
10.615	10.615 (0.740)	45	5222137	50.0000	54.355	80.00- 120.00	100.00
10.615	10.615 (0.740)	43	1245107			0.00- 74.82	23.84
10.615	10.615 (0.740)	59	158129			0.00- 53.58	3.03
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.836 (0.755)	76	4593669	50.0000	52.245	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.085	11.085 (0.773)	76	733951	50.0000	53.139	80.00- 120.00	100.00
11.085	11.085 (0.773)	41	3664490			426.83- 526.83	499.28
54 Methylene Chloride					CAS #: 75-09-2		
11.416	11.416 (0.796)	49	3620795	50.0000	45.034	80.00- 120.00	100.00
11.416	11.416 (0.796)	84	1207961			0.00- 83.36	33.36
11.416	11.416 (0.796)	51	1087760			0.00- 81.01	30.04
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	2991391	50.0000	61.166	80.00- 120.00	100.00
11.776	11.776 (0.821)	57	1057035			0.00- 85.34	35.34
11.776	11.776 (0.821)	41	1161268			0.00- 95.41	38.82
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.859	11.859 (0.827)	96	1595679	50.0000	52.283	80.00- 120.00	100.00
11.859	11.859 (0.827)	61	3849918			191.27- 291.27	241.27
11.859	11.859 (0.827)	98	1001995			9.25- 109.25	62.79

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	4037799	50.0000	53.565	80.00- 120.00	100.00
12.218	12.218 (0.852)	43	2879846			22.81- 122.81	71.32
12.246	12.246 (0.854)	86	330141			0.00- 58.81	8.18
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.716 (0.886)	86	319728	50.0000	52.186	80.00- 120.00	100.00
12.716	12.716 (0.886)	43	7931008			2315.51-2415.51	2480.55
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.744	12.744 (0.888)	63	4304045	50.0000	52.548	80.00- 120.00	100.00
12.771	12.771 (0.890)	65	1242901			0.00- 78.88	28.88
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	684284	50.0000	53.071	80.00- 120.00	100.00
13.822	13.822 (0.963)	43	5469759			749.34- 849.34	799.34
13.822	13.822 (0.963)	57	385956			11.32- 111.32	56.40
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.850	13.850 (0.965)	61	3196155	50.0000	53.504	80.00- 120.00	100.00
13.850	13.850 (0.965)	96	1422505			0.00- 94.51	44.51
13.850	13.850 (0.965)	98	897240			0.00- 78.07	28.07
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (0.998)	42	2807157	50.0000	55.772	80.00- 120.00	100.00
14.320	14.320 (0.998)	71	612942			0.00- 71.83	21.83
14.320	14.320 (0.998)	72	672456			0.00- 75.11	23.96
82 Chloroform					CAS #: 67-66-3		
14.403	14.403 (1.004)	83	2970127	50.0000	53.908	80.00- 120.00	100.00
14.403	14.403 (1.004)	85	1871707			13.02- 113.02	63.02
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	3173554	50.0000	53.385	80.00- 120.00	100.00
14.762	14.762 (1.029)	99	2006611			13.23- 113.23	63.23
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	1618676	50.0000	54.436	80.00- 120.00	100.00
14.790	14.790 (1.031)	56	3609139			172.97- 272.97	222.97
14.790	14.790 (1.031)	41	2192396			85.44- 185.44	135.44
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.039	15.039 (1.048)	119	3144423	50.0000	52.842	80.00- 120.00	100.00
15.039	15.039 (1.048)	117	3274431			54.13- 154.13	104.13
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	3659207	50.0000	52.434	80.00- 120.00	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	816429			0.00- 73.75	22.31
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	9783135	50.0000	54.188	80.00- 120.00	100.00
15.370	15.370 (1.071)	56	3420692			0.00- 84.79	34.97
15.370	15.370 (1.071)	41	3000625			0.00- 82.30	30.67
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	3130013	50.0000	51.631	80.00- 120.00	100.00
15.564	15.564 (0.966)	64	901686			0.00- 79.85	28.81
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	1268735	50.0000	53.092	80.00- 120.00	100.00
15.647	15.647 (0.971)	43	3898977			263.55- 363.55	307.31
15.647	15.647 (0.971)	57	1962797			101.27- 201.27	154.71
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	1664449	50.0000	51.591	80.00- 120.00	100.00
16.587	16.587 (1.029)	130	1447222			36.95- 136.95	86.95
16.587	16.587 (1.029)	97	1042356			12.62- 112.62	62.62
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	1915988	50.0000	51.503	80.00- 120.00	100.00
17.057	17.057 (1.058)	62	1427322			24.50- 124.50	74.50
17.057	17.057 (1.058)	41	1622538			34.68- 134.68	84.68
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	807425	50.0000	52.630	80.00- 120.00	100.00
17.195	17.195 (1.067)	58	1039252			78.71- 178.71	128.71
17.195	17.195 (1.067)	57	350837			0.00- 93.19	43.45
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	2997370	50.0000	53.434	80.00- 120.00	100.00
17.499	17.499 (1.086)	85	1883930			12.85- 112.85	62.85
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	2227268	50.0000	54.546	80.00- 120.00	100.00
18.273	18.273 (1.134)	77	679033			0.00- 80.49	30.49
18.273	18.273 (1.134)	39	2250813			51.06- 151.06	101.06
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	1988983	50.0000	56.801	80.00- 120.00	100.00
18.467	18.467 (1.146)	43	5696260			234.93- 334.93	286.39
18.467	18.467 (1.146)	85	466281			0.00- 75.34	23.44

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	4081581	50.0000	50.615	80.00- 120.00	100.00
18.826	18.826 (1.168)	92	2551835			12.52- 112.52	62.52
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	2508124	50.0000	53.594	80.00- 120.00	100.00
19.269	19.269 (0.904)	77	761809			0.00- 80.37	30.37
19.269	19.269 (0.904)	39	2259156			40.07- 140.07	90.07
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	1508563	50.0000	50.493	80.00- 120.00	100.00
19.601	19.601 (0.920)	99	926184			11.40- 111.40	61.40
19.601	19.601 (0.920)	83	1257310			33.34- 133.34	83.34
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	1956559	50.0000	50.456	80.00- 120.00	100.00
19.767	19.767 (0.927)	129	1442518			23.73- 123.73	73.73
19.767	19.767 (0.927)	131	1485667			25.93- 125.93	75.93
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	2765607	50.0000	55.673	80.00- 120.00	100.00
19.905	19.905 (0.934)	43	5820085			160.45- 260.45	210.45
19.905	19.905 (0.934)	100	278322			0.00- 59.97	10.06
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	2883705	50.0000	52.234	80.00- 120.00	100.00
20.292	20.292 (0.952)	127	2240477			27.29- 127.29	77.69
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	2494669	50.0000	51.859	80.00- 120.00	100.00
20.568	20.568 (0.965)	109	2278747			41.34- 141.34	91.34
127 Chlorobenzene					CAS #: 108-90-7		
21.343	21.343 (1.001)	112	3561919	50.0000	48.461	80.00- 120.00	100.00
21.370	21.370 (1.003)	114	1141823			0.00- 82.06	32.06
21.343	21.343 (1.001)	77	2212248			12.11- 112.11	62.11
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.453 (1.006)	106	1751127	50.0000	51.086	80.00- 120.00	100.00
21.426	21.426 (1.005)	91	6168790			312.17- 412.17	352.28
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	2188770	50.0000	49.003	80.00- 120.00	100.00
21.647	21.647 (1.016)	91	5058908			179.26- 279.26	231.13
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	2058052	50.0000	51.473	80.00- 120.00	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	4972255			191.60- 291.60	241.60
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	3412412	50.0000	50.210	80.00- 120.00	100.00
22.366	22.366 (1.049)	78	2091098			11.28- 111.28	61.28
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	2786939	50.0000	50.686	80.00- 120.00	100.00
22.780	22.780 (1.069)	171	1466459			2.62- 102.62	52.62
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	6065260	50.0000	48.978	80.00- 120.00	100.00
22.919	22.919 (1.075)	120	1678706			0.00- 77.67	27.68
22.891	22.891 (1.074)	51	1238017			0.00- 71.10	20.41
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	3509765	50.0000	46.066	80.00- 120.00	100.00
23.499	23.499 (1.102)	85	2224282			13.37- 113.37	63.37
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	8399488	50.0000	48.027	80.00- 120.00	100.00
23.582	23.582 (1.106)	120	1772701			0.00- 71.33	21.10
23.582	23.582 (1.106)	105	282111			0.00- 53.45	3.36
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	6889078	50.0000	46.883	80.00- 120.00	100.00
23.776	23.776 (1.115)	120	2239688			0.00- 82.51	32.51
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	5314222	50.0000	45.416	80.00- 120.00	100.00
23.859	23.859 (1.119)	120	2734204			0.15- 100.15	51.45
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	5245899	50.0000	45.980	80.00- 120.00	100.00
24.495	24.495 (1.149)	120	2492231			0.00- 97.16	47.51
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	3950988	50.0000	45.004	80.00- 120.00	100.00
25.075	25.075 (1.176)	148	2491813			14.61- 114.61	63.07
25.075	25.075 (1.176)	111	1677678			0.00- 93.11	42.46
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	4127364	50.0000	45.312	80.00- 120.00	100.00
25.241	25.241 (1.184)	148	2583117			13.36- 113.36	62.59
25.213	25.213 (1.183)	111	1690509			0.00- 92.11	40.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.435	25.435 (1.193)	91	6407471	50.0000	48.606	80.00- 120.00	100.00
25.435	25.435 (1.193)	126	1134629			0.00- 68.07	17.71
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	3928954	50.0000	44.184	80.00- 120.00	100.00
25.877	25.877 (1.214)	148	2498353			13.59- 113.59	63.59
25.877	25.877 (1.214)	111	1750031			0.00- 94.54	44.54
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	1938777	50.0000	40.319	80.00- 120.00	100.00
28.753	28.753 (1.349)	182	1846301			45.23- 145.23	95.23
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	1785429	50.0000	42.268	80.00- 120.00	100.00
28.946	28.946 (1.358)	223	1136587			13.81- 113.81	63.66
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	3698936	50.0000	40.674	80.00- 120.00	100.00
29.306	29.306 (1.375)	127	463136			0.00- 62.45	12.52
29 Isopentane					CAS #: 78-78-4		
8.320	8.320 (0.580)	43	3481666	50.0000	52.680	80.00- 120.00	100.00
8.320	8.320 (0.580)	57	2147849			11.13- 111.13	61.69
19 Butane					CAS #: 106-97-8		
6.716	6.716 (0.468)	58	483809	50.0000	52.577	80.00- 120.00	100.00
6.716	6.716 (0.468)	43	4268578			840.33- 940.33	882.29
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	2068776	50.0000	54.585	80.00- 120.00	100.00
16.863	16.863 (1.175)	98	913928			0.00- 95.26	44.18
16.863	16.863 (1.175)	55	3309534			110.72- 210.72	159.98
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	2472694	50.0000	55.392	80.00- 120.00	100.00
11.444	11.444 (0.798)	41	629438			0.00- 80.33	25.46
11.444	11.444 (0.798)	57	260492			0.00- 60.11	10.53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072410.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	358443	0.00
97 1,4-Difluorobenze	1288556	773134	1803978	1288556	0.00
126 Chlorobenzene-d5	1202945	721767	1684123	1202945	0.00

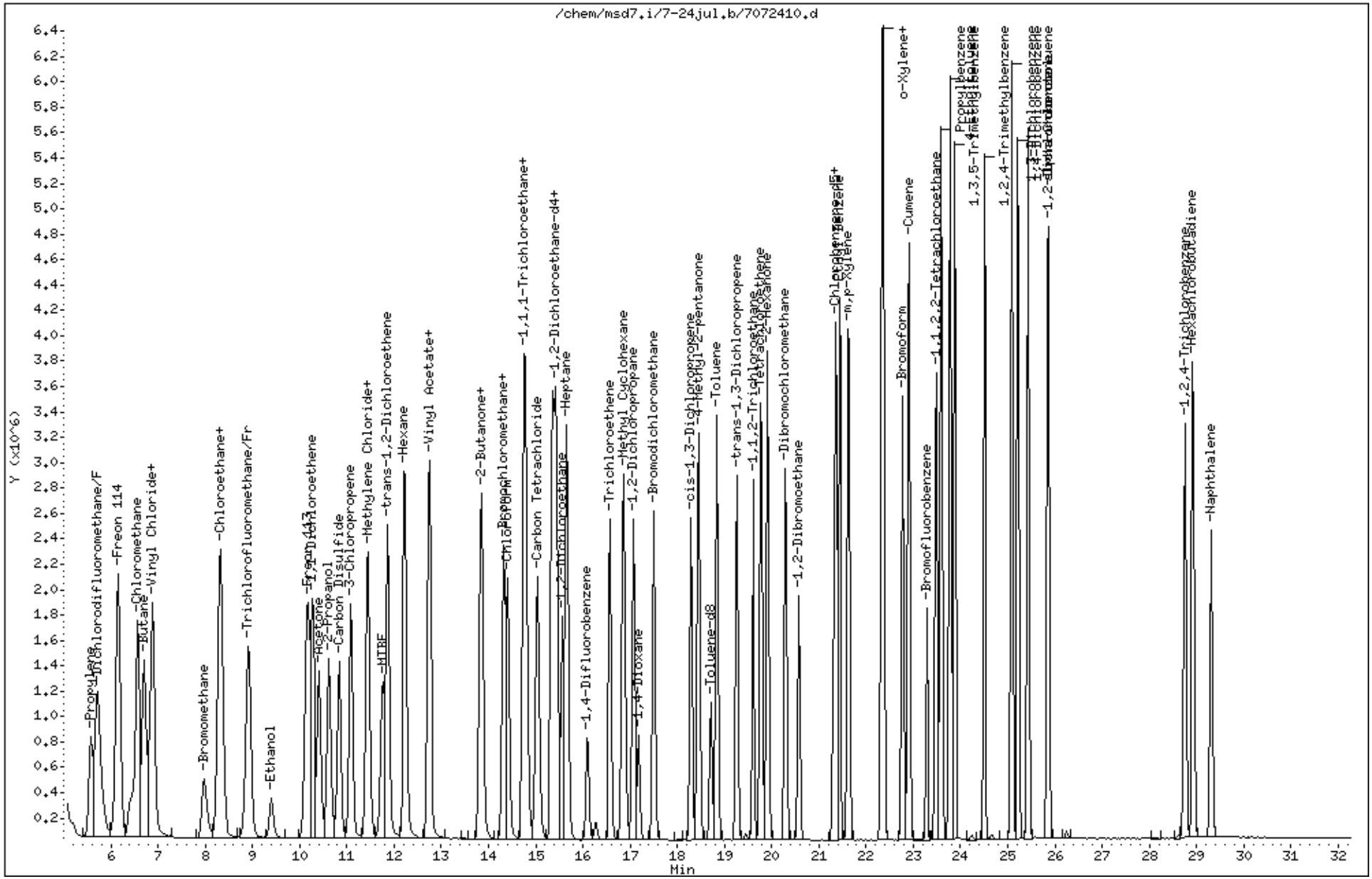
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.35	14.02	14.68	14.35	0.00
97 1,4-Difluorobenze	16.12	15.79	16.45	16.12	0.00
126 Chlorobenzene-d5	21.31	20.98	21.64	21.31	0.00

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.

Data File: /chem/msd7.i/7-24jul.b/7072410.d
Date : 24-JUL-2008 14:21
Client ID: Level 5
Sample Info: 50mL#1541-210

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

Column phase: RTx-624



0116

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-24jul.b/7072411.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 24-JUL-2008 15:00
Operator : ra Inst ID: msd7.i
Smp Info : 100mL#1541-210
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:02 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:00 Cal File: 7072411.d
Als bottle: 1 Calibration Sample, Level: 6
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	366109	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	294266			27.95- 127.95	80.38
14.347	14.347 (1.000)	49	2105833			339.50- 439.50	575.19
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1316824	25.0000		50.00- 150.00	100.00
16.117	16.117 (1.000)	88	193434			0.00- 65.01	14.69
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1240017	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	702961			7.70- 107.70	56.69
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.426	15.426 (1.075)	65	820626	25.0000	25.034	50.00- 150.00	100.00
15.426	15.426 (1.075)	67	463957			0.00- 97.26	56.54
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1300652	25.0000	25.566	50.00- 150.00	100.00
18.716	18.716 (1.161)	70	179510			0.00- 64.06	13.80

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	877664			17.06- 117.06	67.48
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	737718	25.0000	25.041	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1034070			90.47- 190.47	140.17
23.278	23.278 (1.092)	176	715899			46.73- 146.73	97.04
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	3851587	100.000	95.271	50.00- 150.00	100.00
5.610	5.610 (0.391)	42	2677679			17.57- 117.57	69.52
5.610	5.610 (0.391)	39	3041828			28.91- 128.91	78.98
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	8792435	100.000	95.937	50.00- 150.00	100.00
5.748	5.748 (0.401)	87	2774959			0.00- 83.12	31.56
16 Freon 114					CAS #: 76-14-2		
6.218	6.218 (0.433)	135	5788263	100.000	97.184	50.00- 150.00	100.00
6.218	6.218 (0.433)	137	1820620			0.00- 82.77	31.45
18 Chloromethane					CAS #: 74-87-3		
6.495	6.495 (0.453)	50	4447209	100.000	92.328	50.00- 150.00	100.00
6.495	6.495 (0.453)	52	1454927			0.00- 80.60	32.72
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	4660470	100.000	96.470	50.00- 150.00	100.00
6.854	6.854 (0.478)	64	1296737			0.00- 79.39	27.82
22 1,3-Butadiene					CAS #: 106-99-0		
6.937	6.937 (0.484)	54	4337953	100.000	95.718	50.00- 150.00	100.00
6.937	6.937 (0.484)	39	4398272			53.85- 153.85	101.39
25 Bromomethane					CAS #: 74-83-9		
8.015	8.015 (0.559)	94	2546573	100.000	96.748	50.00- 150.00	100.00
8.015	8.015 (0.559)	96	2388063			35.61- 135.61	93.78
27 Chloroethane					CAS #: 75-00-3		
8.347	8.347 (0.582)	64	2174692	100.000	99.120	50.00- 150.00	100.00
8.320	8.320 (0.580)	49	947848			0.00- 97.46	43.59
8.347	8.347 (0.582)	66	619458			0.00- 79.98	28.48
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.928 (0.622)	101	9012066	100.000	95.032	50.00- 150.00	100.00
8.928	8.928 (0.622)	103	5695470			12.90- 112.90	63.20

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	2045578	100.000	102.70	50.00- 150.00	100.00
9.426	9.426 (0.657)	43	436993			0.00- 72.32	21.36
9.426	9.426 (0.657)	46	784766			0.00- 86.95	38.36
42 Freon 113					CAS #: 76-13-1		
10.172	10.172 (0.709)	151	4148783	100.000	95.795	50.00- 150.00	100.00
10.172	10.172 (0.709)	153	2673570			13.38- 113.38	64.44
10.172	10.172 (0.709)	101	5400526			83.36- 183.36	130.17
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.283 (0.717)	61	7635924	100.000	98.028	50.00- 150.00	100.00
10.283	10.283 (0.717)	96	2658579			0.00- 83.70	34.82
10.283	10.283 (0.717)	98	1700490			0.00- 71.10	22.27
45 Acetone					CAS #: 67-64-1		
10.449	10.449 (0.728)	58	2400668	100.000	100.57	50.00- 150.00	100.00
10.449	10.449 (0.728)	43	9183877			337.38- 437.38	382.56
46 2-Propanol					CAS #: 67-63-0		
10.642	10.642 (0.742)	45	10279335	100.000	104.75	50.00- 150.00	100.00
10.642	10.642 (0.742)	43	2345736			0.00- 74.82	22.82
10.642	10.642 (0.742)	59	303563			0.00- 53.58	2.95
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	8938475	100.000	99.531	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.112 (0.775)	76	1478246	100.000	104.78	50.00- 150.00	100.00
11.112	11.112 (0.775)	41	7179496			426.83- 526.83	485.68
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.444 (0.798)	49	6894904	100.000	83.960	50.00- 150.00	100.00
11.444	11.444 (0.798)	84	2326977			0.00- 83.64	33.75
11.444	11.444 (0.798)	51	2105934			0.00- 81.01	30.54
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	5973500	100.000	119.58	50.00- 150.00	100.00
11.776	11.776 (0.821)	57	2104927			0.00- 88.49	35.24
11.776	11.776 (0.821)	41	2252445			0.00- 95.41	37.71
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	3068447	100.000	98.433	50.00- 150.00	100.00
11.886	11.886 (0.828)	61	7330789			188.86- 288.86	238.91
11.886	11.886 (0.828)	98	1940261			9.25- 109.25	63.23

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	7797961	100.000	101.28	50.00- 150.00	100.00
12.246	12.246 (0.854)	43	5482212			22.81- 122.81	70.30
12.246	12.246 (0.854)	86	651569			0.00- 58.81	8.36
69 Vinyl Acetate					CAS #: 108-05-4		
12.744	12.744 (0.888)	86	633263	100.000	101.20	50.00- 150.00	100.00
12.716	12.716 (0.886)	43	15162636			2315.51-2415.51	2394.37
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	8195839	100.000	97.968	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	2377073			0.00- 78.79	29.00
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	1348769	100.000	102.42	50.00- 150.00	100.00
13.822	13.822 (0.963)	43	10502337			700.25- 800.25	778.66
13.822	13.822 (0.963)	57	775708			11.32- 111.32	57.51
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.877 (0.967)	61	5943131	100.000	97.406	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	2734893			0.00- 94.94	46.02
13.877	13.877 (0.967)	98	1731856			0.00- 77.78	29.14
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (0.998)	42	5458544	100.000	106.18	50.00- 150.00	100.00
14.320	14.320 (0.998)	71	1237657			0.00- 73.86	22.67
14.320	14.320 (0.998)	72	1348634			0.00- 75.11	24.71
82 Chloroform					CAS #: 67-66-3		
14.402	14.402 (1.004)	83	5648101	100.000	100.37	50.00- 150.00	100.00
14.402	14.402 (1.004)	85	3603809			13.85- 113.85	63.81
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	6030448	100.000	99.319	50.00- 150.00	100.00
14.762	14.762 (1.029)	99	3800050			15.12- 115.12	63.01
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	3074966	100.000	101.25	50.00- 150.00	100.00
14.790	14.790 (1.031)	56	6798610			175.01- 275.01	221.10
14.790	14.790 (1.031)	41	4102697			92.46- 192.46	133.42
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	5947934	100.000	97.862	50.00- 150.00	100.00
15.038	15.038 (1.048)	117	6150090			52.22- 152.22	103.40
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	18574802	100.000	100.73	50.00- 150.00	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	6383417			0.00- 84.79	34.37
15.370	15.370 (1.071)	41	5674972			0.00- 82.30	30.55
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	7067992	100.000	99.104	50.00- 150.00	100.00
15.453	15.453 (0.959)	77	1570847			0.00- 73.75	22.22
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	5886280	100.000	95.013	50.00- 150.00	100.00
15.564	15.564 (0.966)	64	1693993			0.00- 79.85	28.78
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	2449836	100.000	100.32	50.00- 150.00	100.00
15.647	15.647 (0.971)	43	7490535			263.55- 363.55	305.76
15.647	15.647 (0.971)	57	3796481			101.27- 201.27	154.97
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	3186606	100.000	96.651	50.00- 150.00	100.00
16.587	16.587 (1.029)	130	2792426			35.92- 135.92	87.63
16.587	16.587 (1.029)	97	1997892			14.51- 114.51	62.70
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	3675525	100.000	96.680	50.00- 150.00	100.00
17.057	17.057 (1.058)	62	2786159			23.30- 123.30	75.80
17.057	17.057 (1.058)	41	3100525			36.21- 136.21	84.36
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	1611857	100.000	102.81	50.00- 150.00	100.00
17.195	17.195 (1.067)	58	2038983			81.32- 181.32	126.50
17.195	17.195 (1.067)	57	700607			0.00- 93.19	43.47
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	5681962	100.000	99.119	50.00- 150.00	100.00
17.499	17.499 (1.086)	85	3535120			13.63- 113.63	62.22
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	4286375	100.000	102.72	50.00- 150.00	100.00
18.273	18.273 (1.134)	77	1350112			0.00- 85.26	31.50
18.273	18.273 (1.134)	39	4297460			53.87- 153.87	100.26
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	3836133	100.000	107.20	50.00- 150.00	100.00
18.467	18.467 (1.146)	43	10828448			234.93- 334.93	282.28
18.467	18.467 (1.146)	85	903604			0.00- 75.34	23.56

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
114 Toluene						CAS #: 108-88-3	
18.826	18.826 (1.168)	91	7931327	100.000	96.244	50.00- 150.00	100.00
18.826	18.826 (1.168)	92	4924625			11.96- 111.96	62.09
116 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
19.269	19.269 (0.904)	75	4814903	100.000	99.809	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	1493680			0.00- 81.98	31.02
19.269	19.269 (0.904)	39	4306551			41.64- 141.64	89.44
117 1,1,2-Trichloroethane						CAS #: 79-00-5	
19.601	19.601 (0.920)	97	2935091	100.000	95.303	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	1789452			14.05- 114.05	60.97
19.601	19.601 (0.920)	83	2427209			33.78- 133.78	82.70
120 Tetrachloroethene						CAS #: 127-18-4	
19.794	19.794 (0.929)	166	3774024	100.000	94.416	50.00- 150.00	100.00
19.766	19.766 (0.927)	129	2754669			23.13- 123.13	72.99
19.794	19.794 (0.929)	131	2792510			29.18- 129.18	73.99
121 2-Hexanone						CAS #: 591-78-6	
19.905	19.905 (0.934)	58	5362350	100.000	104.72	50.00- 150.00	100.00
19.905	19.905 (0.934)	43	11046497			161.84- 261.84	206.00
19.905	19.905 (0.934)	100	548706			0.00- 59.97	10.23
122 Dibromochloromethane						CAS #: 124-48-1	
20.292	20.292 (0.952)	129	5514657	100.000	96.904	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	4281434			27.29- 127.29	77.64
123 1,2-Dibromoethane						CAS #: 106-93-4	
20.568	20.568 (0.965)	107	4789463	100.000	96.587	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	4406878			45.70- 145.70	92.01
127 Chlorobenzene						CAS #: 108-90-7	
21.343	21.343 (1.001)	112	6847092	100.000	90.372	50.00- 150.00	100.00
21.370	21.370 (1.003)	114	2198279			0.00- 81.49	32.11
21.343	21.343 (1.001)	77	4276853			19.57- 119.57	62.46
128 Ethyl Benzene						CAS #: 100-41-4	
21.425	21.425 (1.005)	106	3350695	100.000	94.828	50.00- 150.00	100.00
21.425	21.425 (1.005)	91	11896312			312.17- 412.17	355.04
129 m,p-Xylene						CAS #: 108-38-3	
21.647	21.647 (1.016)	106	4198011	100.000	91.177	50.00- 150.00	100.00
21.619	21.619 (1.014)	91	9664262			179.26- 279.26	230.21
130 o-Xylene						CAS #: 95-47-6	
22.338	22.338 (1.048)	106	3937021	100.000	95.523	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	9523022			197.42- 297.42	241.88
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	6623971	100.000	94.550	50.00- 150.00	100.00
22.366	22.366 (1.049)	78	3969368			14.43- 114.43	59.92
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	5417466	100.000	95.583	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	2797515			0.46- 100.46	51.64
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	11635101	100.000	91.146	50.00- 150.00	100.00
22.919	22.919 (1.075)	120	3238920			0.00- 77.67	27.84
22.891	22.891 (1.074)	51	2326375			0.00- 71.10	19.99
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	6745401	100.000	85.887	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	4234731			13.97- 113.97	62.78
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	16167474	100.000	89.680	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	3453062			0.00- 71.33	21.36
23.582	23.582 (1.106)	105	546763			0.00- 53.45	3.38
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	13497781	100.000	89.113	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	4430022			0.00- 82.31	32.82
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	10479206	100.000	86.879	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	5293326			0.15- 100.15	50.51
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	10368706	100.000	88.164	50.00- 150.00	100.00
24.495	24.495 (1.149)	120	4962327			0.00- 97.16	47.86
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	7798915	100.000	86.177	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	4931144			14.61- 114.61	63.23
25.075	25.075 (1.176)	111	3378768			0.00- 93.11	43.32
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	8195673	100.000	87.286	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	5164147			13.36- 113.36	63.01
25.213	25.213 (1.183)	111	3345444			0.00- 92.11	40.82

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	12968245	100.000	95.433	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	2297827			0.00- 68.07	17.72
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	7903263	100.000	86.220	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	4964555			13.29- 113.29	62.82
25.877	25.877 (1.214)	111	3508913			0.00- 95.36	44.40
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	5588908	100.000	112.75	50.00- 150.00	100.00
28.753	28.753 (1.349)	182	5254442			43.65- 143.65	94.02
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	4527318	100.000	103.98	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	2833202			13.81- 113.81	62.58
29 Isopentane					CAS #: 78-78-4		
8.347	8.347 (0.582)	43	6661761	100.000	98.687	50.00- 150.00	100.00
8.347	8.347 (0.582)	57	4190229			11.13- 111.13	62.90
19 Butane					CAS #: 106-97-8		
6.744	6.744 (0.470)	58	942165	100.000	100.24	50.00- 150.00	100.00
6.744	6.744 (0.470)	43	8109679			840.33- 940.33	860.75
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	3969411	100.000	102.54	50.00- 150.00	100.00
16.863	16.863 (1.175)	98	1802402			0.00- 95.26	45.41
16.863	16.863 (1.175)	55	6308121			110.72- 210.72	158.92
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	11234047	100.000	119.84	50.00- 150.00	100.00
29.306	29.306 (1.375)	127	1346938			0.00- 62.45	11.99
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	4396522	100.000	96.427	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	1112785			0.00- 80.33	25.31
11.444	11.444 (0.798)	57	488101			0.00- 60.11	11.10

Report Date: 25-Jul-2008 08:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072411.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	366109	2.14
97 1,4-Difluorobenze	1288556	773134	1803978	1316824	2.19
126 Chlorobenzene-d5	1202945	721767	1684123	1240017	3.08

		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.

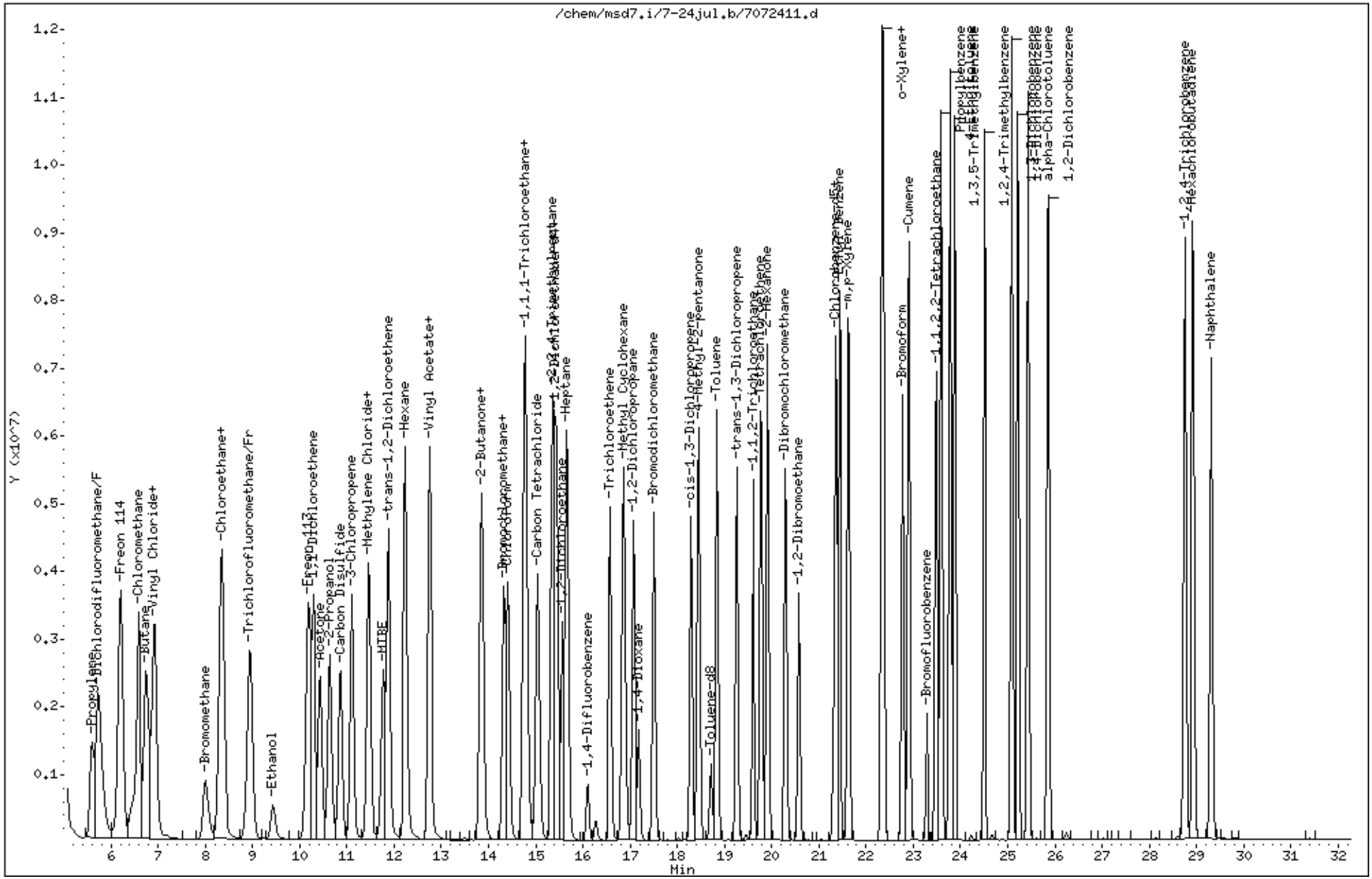
0126

Data File: /chem/msd7.i/7-24jul.b/7072411.d
Date : 24-JUL-2008 15:00
Client ID: Level 6
Sample Info: 100mL#1541-210

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/7-24jul.b/7072412.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 24-JUL-2008 15:39
Operator : ra Inst ID: msd7.i
Smp Info : 200mL#1541-210
Misc Info : 200ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-24jul.b/t14q724a.m
Meth Date : 25-Jul-2008 08:02 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:39 Cal File: 7072412.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	369879	25.0000		50.00- 150.00	100.00
14.347	14.347 (1.000)	128	288063			27.95- 127.95	77.88
14.403	14.403 (1.000)	49	3021086			339.50- 439.50	816.78
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.117 (1.000)	114	1339131	25.0000		50.00- 150.00	100.00
16.117	16.117 (1.000)	88	207220			0.00- 65.01	15.47
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1280918	25.0000		50.00- 150.00	100.00
21.315	21.315 (1.000)	82	746994			7.70- 107.70	58.32
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.426	15.426 (1.075)	65	847439	25.0000	25.589	50.00- 150.00	100.00
15.426	15.426 (1.075)	67	560478			0.00- 97.26	66.14
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1338592	25.0000	25.874	50.00- 150.00	100.00
18.716	18.716 (1.161)	70	186686			0.00- 64.06	13.95

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	916715			17.06- 117.06	68.48
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	779208	25.0000	25.605	50.00- 150.00	100.00
23.278	23.278 (1.092)	95	1064263			90.47- 190.47	136.58
23.278	23.278 (1.092)	176	756640			46.73- 146.73	97.10
11 Propylene					CAS #: 115-07-1		
5.610	5.610 (0.391)	41	7690567	200.000	188.29	50.00- 150.00	100.00
5.610	5.610 (0.391)	42	5313975			17.57- 117.57	69.10
5.610	5.610 (0.391)	39	6073365			28.91- 128.91	78.97
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.748 (0.401)	85	17217946	200.000	185.96	50.00- 150.00	100.00
5.748	5.748 (0.401)	87	5538032			0.00- 83.12	32.16
16 Freon 114					CAS #: 76-14-2		
6.246	6.246 (0.435)	135	11015708	200.000	183.07	50.00- 150.00	100.00
6.246	6.246 (0.435)	137	3451073			0.00- 82.77	31.33
18 Chloromethane					CAS #: 74-87-3		
6.522	6.522 (0.455)	50	8878207	200.000	182.44	50.00- 150.00	100.00
6.522	6.522 (0.455)	52	2957304			0.00- 80.60	33.31
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.854 (0.478)	62	8888273	200.000	182.11	50.00- 150.00	100.00
6.854	6.854 (0.478)	64	2499068			0.00- 79.39	28.12
22 1,3-Butadiene					CAS #: 106-99-0		
6.965	6.965 (0.485)	54	8665680	200.000	189.26	50.00- 150.00	100.00
6.965	6.965 (0.485)	39	8970177			53.85- 153.85	103.51
25 Bromomethane					CAS #: 74-83-9		
8.016	8.016 (0.559)	94	5337915	200.000	200.73	50.00- 150.00	100.00(A)
8.016	8.016 (0.559)	96	4912647			35.61- 135.61	92.03
27 Chloroethane					CAS #: 75-00-3		
8.347	8.347 (0.582)	64	4441364	200.000	200.37	50.00- 150.00	100.00(A)
8.347	8.347 (0.582)	49	1871449			0.00- 97.46	42.14
8.347	8.347 (0.582)	66	1271575			0.00- 79.98	28.63
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.956	8.956 (0.624)	101	17754434	200.000	185.31	50.00- 150.00	100.00
8.956	8.956 (0.624)	103	11196181			12.90- 112.90	63.06

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.453	9.453 (0.659)	45	4077929	200.000	202.65	50.00- 150.00	100.00(A)
9.453	9.453 (0.659)	43	852060			0.00- 72.32	20.89
9.453	9.453 (0.659)	46	1529071			0.00- 86.95	37.50
42 Freon 113					CAS #: 76-13-1		
10.200	10.200 (0.711)	151	8211140	200.000	187.66	50.00- 150.00	100.00
10.200	10.200 (0.711)	153	5221483			13.38- 113.38	63.59
10.200	10.200 (0.711)	101	10616731			83.36- 183.36	129.30
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.310	10.310 (0.719)	61	14854097	200.000	188.75	50.00- 150.00	100.00
10.310	10.310 (0.719)	96	5354212			0.00- 83.70	36.05
10.310	10.310 (0.719)	98	3398262			0.00- 71.10	22.88
45 Acetone					CAS #: 67-64-1		
10.449	10.449 (0.728)	58	4788391	200.000	198.56	50.00- 150.00	100.00
10.449	10.449 (0.728)	43	17824382			337.38- 437.38	372.24
46 2-Propanol					CAS #: 67-63-0		
10.642	10.642 (0.742)	45	20960819	200.000	211.43	50.00- 150.00	100.00(A)
10.642	10.642 (0.742)	43	4839193			0.00- 74.82	23.09
10.642	10.642 (0.742)	59	648821			0.00- 53.58	3.10
47 Carbon Disulfide					CAS #: 75-15-0		
10.863	10.863 (0.757)	76	18304742	200.000	201.75	50.00- 150.00	100.00(A)
51 3-Chloropropene					CAS #: 107-05-1		
11.140	11.140 (0.776)	76	3025174	200.000	212.25	50.00- 150.00	100.00(A)
11.112	11.112 (0.775)	41	14446840			426.83- 526.83	477.55
54 Methylene Chloride					CAS #: 75-09-2		
11.472	11.472 (0.800)	49	13696289	200.000	165.08	50.00- 150.00	100.00
11.472	11.472 (0.800)	84	4822924			0.00- 83.64	35.21
11.472	11.472 (0.800)	51	4211147			0.00- 81.01	30.75
60 MTBE					CAS #: 1634-04-4		
11.776	11.776 (0.821)	73	12382582	200.000	245.36	50.00- 150.00	100.00(A)
11.776	11.776 (0.821)	57	4357160			0.00- 88.49	35.19
11.776	11.776 (0.821)	41	4566158			0.00- 95.41	36.88
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.886 (0.828)	96	6094509	200.000	193.51	50.00- 150.00	100.00
11.886	11.886 (0.828)	61	14254858			188.86- 288.86	233.90
11.886	11.886 (0.828)	98	3882845			9.25- 109.25	63.71

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	15260069	200.000	196.18	50.00- 150.00	100.00
12.246	12.246 (0.854)	43	10604349			22.81- 122.81	69.49
12.246	12.246 (0.854)	86	1308605			0.00- 58.81	8.58
69 Vinyl Acetate					CAS #: 108-05-4		
12.744	12.744 (0.888)	86	1273878	200.000	201.49	50.00- 150.00	100.00(A)
12.716	12.716 (0.886)	43	29247026			2315.51-2415.51	2295.90
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.771 (0.890)	63	15922951	200.000	188.39	50.00- 150.00	100.00
12.771	12.771 (0.890)	65	4671294			0.00- 78.79	29.34
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	2738109	200.000	205.79	50.00- 150.00	100.00(A)
13.822	13.822 (0.963)	43	20168627			700.25- 800.25	736.59
13.822	13.822 (0.963)	57	1501753			11.32- 111.32	54.85
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.877 (0.967)	61	11496645	200.000	186.50	50.00- 150.00	100.00
13.877	13.877 (0.967)	96	5400388			0.00- 94.94	46.97
13.877	13.877 (0.967)	98	3432486			0.00- 77.78	29.86
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.320 (0.998)	42	10720147	200.000	206.40	50.00- 150.00	100.00(A)
14.320	14.320 (0.998)	71	2503927			0.00- 73.86	23.36
14.320	14.320 (0.998)	72	2666585			0.00- 75.11	24.87
82 Chloroform					CAS #: 67-66-3		
14.403	14.403 (1.004)	83	11176749	200.000	196.59	50.00- 150.00	100.00
14.403	14.403 (1.004)	85	7068646			13.85- 113.85	63.24
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.029)	97	11758932	200.000	191.69	50.00- 150.00	100.00
14.762	14.762 (1.029)	99	7448783			15.12- 115.12	63.35
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.790 (1.031)	84	6026084	200.000	196.39	50.00- 150.00	100.00
14.790	14.790 (1.031)	56	13035074			175.01- 275.01	216.31
14.790	14.790 (1.031)	41	7703097			92.46- 192.46	127.83
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.039	15.039 (1.048)	119	11603024	200.000	188.96	50.00- 150.00	100.00
15.039	15.039 (1.048)	117	12201112			52.22- 152.22	105.15
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	13816287	200.000	190.50	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	3094232			0.00- 73.75	22.40
	89 2,2,4-Trimethylpentane				CAS #: 540-84-1		
15.370	15.370 (1.071)	57	36154654	200.000	194.06	50.00- 150.00	100.00
15.370	15.370 (1.071)	56	12548671			0.00- 84.79	34.71
15.370	15.370 (1.071)	41	10857761			0.00- 82.30	30.03
	93 1,2-Dichloroethane				CAS #: 107-06-2		
15.564	15.564 (0.966)	62	11354865	200.000	180.23	50.00- 150.00	100.00
15.564	15.564 (0.966)	64	3281691			0.00- 79.85	28.90
	94 Heptane				CAS #: 142-82-5		
15.647	15.647 (0.971)	71	4772818	200.000	192.18	50.00- 150.00	100.00
15.647	15.647 (0.971)	43	14363003			263.55- 363.55	300.93
15.647	15.647 (0.971)	57	7234033			101.27- 201.27	151.57
	101 Trichloroethene				CAS #: 79-01-6		
16.587	16.587 (1.029)	95	6238526	200.000	186.06	50.00- 150.00	100.00
16.587	16.587 (1.029)	130	5515367			35.92- 135.92	88.41
16.587	16.587 (1.029)	97	3971699			14.51- 114.51	63.66
	104 1,2-Dichloropropane				CAS #: 78-87-5		
17.057	17.057 (1.058)	63	7156129	200.000	185.10	50.00- 150.00	100.00
17.057	17.057 (1.058)	62	5379900			23.30- 123.30	75.18
17.057	17.057 (1.058)	41	5928488			36.21- 136.21	82.84
	106 1,4-Dioxane				CAS #: 123-91-1		
17.195	17.195 (1.067)	88	3202085	200.000	200.84	50.00- 150.00	100.00(A)
17.195	17.195 (1.067)	58	4013197			81.32- 181.32	125.33
17.195	17.195 (1.067)	57	1377334			0.00- 93.19	43.01
	107 Bromodichloromethane				CAS #: 75-27-4		
17.499	17.499 (1.086)	83	11038169	200.000	189.35	50.00- 150.00	100.00
17.499	17.499 (1.086)	85	6937312			13.63- 113.63	62.85
	110 cis-1,3-Dichloropropene				CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	8543755	200.000	201.34	50.00- 150.00	100.00(A)
18.273	18.273 (1.134)	77	2678619			0.00- 85.26	31.35
18.273	18.273 (1.134)	39	8220499			53.87- 153.87	96.22
	111 4-Methyl-2-pentanone				CAS #: 108-10-1		
18.467	18.467 (1.146)	58	7450920	200.000	204.75	50.00- 150.00	100.00(A)
18.467	18.467 (1.146)	43	20820955			234.93- 334.93	279.44
18.467	18.467 (1.146)	85	1860181			0.00- 75.34	24.97

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	15796875	200.000	188.50	50.00- 150.00	100.00
18.826	18.826 (1.168)	92	9816523			11.96- 111.96	62.14
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	9489295	200.000	190.42	50.00- 150.00	100.00
19.269	19.269 (0.904)	77	2970168			0.00- 81.98	31.30
19.269	19.269 (0.904)	39	8240349			41.64- 141.64	86.84
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.601 (0.920)	97	5757151	200.000	180.97	50.00- 150.00	100.00
19.601	19.601 (0.920)	99	3512109			14.05- 114.05	61.00
19.601	19.601 (0.920)	83	4782342			33.78- 133.78	83.07
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.794 (0.929)	166	7444714	200.000	180.30	50.00- 150.00	100.00
19.794	19.794 (0.929)	129	5328835			23.13- 123.13	71.58
19.794	19.794 (0.929)	131	5432380			29.18- 129.18	72.97
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	10332439	200.000	195.34	50.00- 150.00	100.00
19.905	19.905 (0.934)	43	21204402			161.84- 261.84	205.22
19.905	19.905 (0.934)	100	1098125			0.00- 59.97	10.63
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	10649949	200.000	181.17	50.00- 150.00	100.00
20.292	20.292 (0.952)	127	8287588			27.29- 127.29	77.82
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	9226964	200.000	180.13	50.00- 150.00	100.00
20.568	20.568 (0.965)	109	8554947			45.70- 145.70	92.72
127 Chlorobenzene					CAS #: 108-90-7		
21.370	21.370 (1.003)	112	13559542	200.000	173.25	50.00- 150.00	100.00
21.370	21.370 (1.003)	114	4282804			0.00- 81.49	31.59
21.343	21.343 (1.001)	77	8209349			19.57- 119.57	60.54
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.453 (1.006)	106	6585685	200.000	180.43	50.00- 150.00	100.00
21.426	21.426 (1.005)	91	22920636			312.17- 412.17	348.04
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.647 (1.016)	106	8417558	200.000	176.98	50.00- 150.00	100.00
21.647	21.647 (1.016)	91	18982082			179.26- 279.26	225.51
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	7800165	200.000	183.21	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	18133468			197.42- 297.42	232.48
131 Styrene					CAS #: 100-42-5		
22.366	22.366 (1.049)	104	13032995	200.000	180.09	50.00- 150.00	100.00
22.366	22.366 (1.049)	78	7424350			14.43- 114.43	56.97
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	10350773	200.000	176.79	50.00- 150.00	100.00
22.780	22.780 (1.069)	171	5355916			0.46- 100.46	51.74
134 Cumene					CAS #: 98-82-8		
22.919	22.919 (1.075)	105	22494593	200.000	170.59	50.00- 150.00	100.00
22.919	22.919 (1.075)	120	6256934			0.00- 77.67	27.82
22.891	22.891 (1.074)	51	4217224			0.00- 71.10	18.75
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	12750675	200.000	157.16	50.00- 150.00	100.00
23.499	23.499 (1.102)	85	8081493			13.97- 113.97	63.38
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	29451605	200.000	158.15	50.00- 150.00	100.00
23.582	23.582 (1.106)	120	6712384			0.00- 71.33	22.79
23.582	23.582 (1.106)	105	1079763			0.00- 53.45	3.67
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	26014837	200.000	166.27	50.00- 150.00	100.00
23.776	23.776 (1.115)	120	8593643			0.00- 82.31	33.03
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.859 (1.119)	105	20189416	200.000	162.04	50.00- 150.00	100.00
23.859	23.859 (1.119)	120	10358520			0.15- 100.15	51.31
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.495 (1.149)	105	20127684	200.000	165.68	50.00- 150.00	100.00
24.495	24.495 (1.149)	120	9702313			0.00- 97.16	48.20
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	15033898	200.000	160.82	50.00- 150.00	100.00
25.075	25.075 (1.176)	148	9438362			14.61- 114.61	62.78
25.075	25.075 (1.176)	111	6491292			0.00- 93.11	43.18
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.241 (1.184)	146	15722708	200.000	162.10	50.00- 150.00	100.00
25.241	25.241 (1.184)	148	9863865			13.36- 113.36	62.74
25.213	25.213 (1.183)	111	6478593			0.00- 92.11	41.21

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	24696718	200.000	175.94	50.00- 150.00	100.00
25.435	25.435 (1.193)	126	4518362			0.00- 68.07	18.30
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	15080754	200.000	159.27	50.00- 150.00	100.00
25.877	25.877 (1.214)	148	9522306			13.29- 113.29	63.14
25.877	25.877 (1.214)	111	6705639			0.00- 95.36	44.46
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.753 (1.349)	180	10804906	200.000	211.02	50.00- 150.00	100.00(A)
28.753	28.753 (1.349)	182	10194895			43.65- 143.65	94.35
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	8565536	200.000	190.44	50.00- 150.00	100.00
28.946	28.946 (1.358)	223	5429868			13.81- 113.81	63.39
167 Naphthalene					CAS #: 91-20-3		
29.306	29.306 (1.375)	128	21524442	200.000	222.28	50.00- 150.00	100.00(A)
29.306	29.306 (1.375)	127	2682647			0.00- 62.45	12.46
29 Isopentane					CAS #: 78-78-4		
8.347	8.347 (0.582)	43	13092343	200.000	191.97	50.00- 150.00	100.00
8.347	8.347 (0.582)	57	8191893			11.13- 111.13	62.57
19 Butane					CAS #: 106-97-8		
6.799	6.799 (0.474)	58	1821762	200.000	191.86	50.00- 150.00	100.00
6.799	6.799 (0.474)	43	15860366			840.33- 940.33	870.61
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	7935170	200.000	202.90	50.00- 150.00	100.00(A)
16.863	16.863 (1.175)	98	3591688			0.00- 95.26	45.26
16.863	16.863 (1.175)	55	12149364			110.72- 210.72	153.11
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.798)	59	7954046	200.000	172.67	50.00- 150.00	100.00
11.444	11.444 (0.798)	41	1944924			0.00- 80.33	24.45
11.444	11.444 (0.798)	57	840391			0.00- 60.11	10.57

QC Flag Legend

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

Report Date: 25-Jul-2008 08:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072412.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-24jul.b/t14q724a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 24-JUL-2008
Calibration Time: 14:21
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

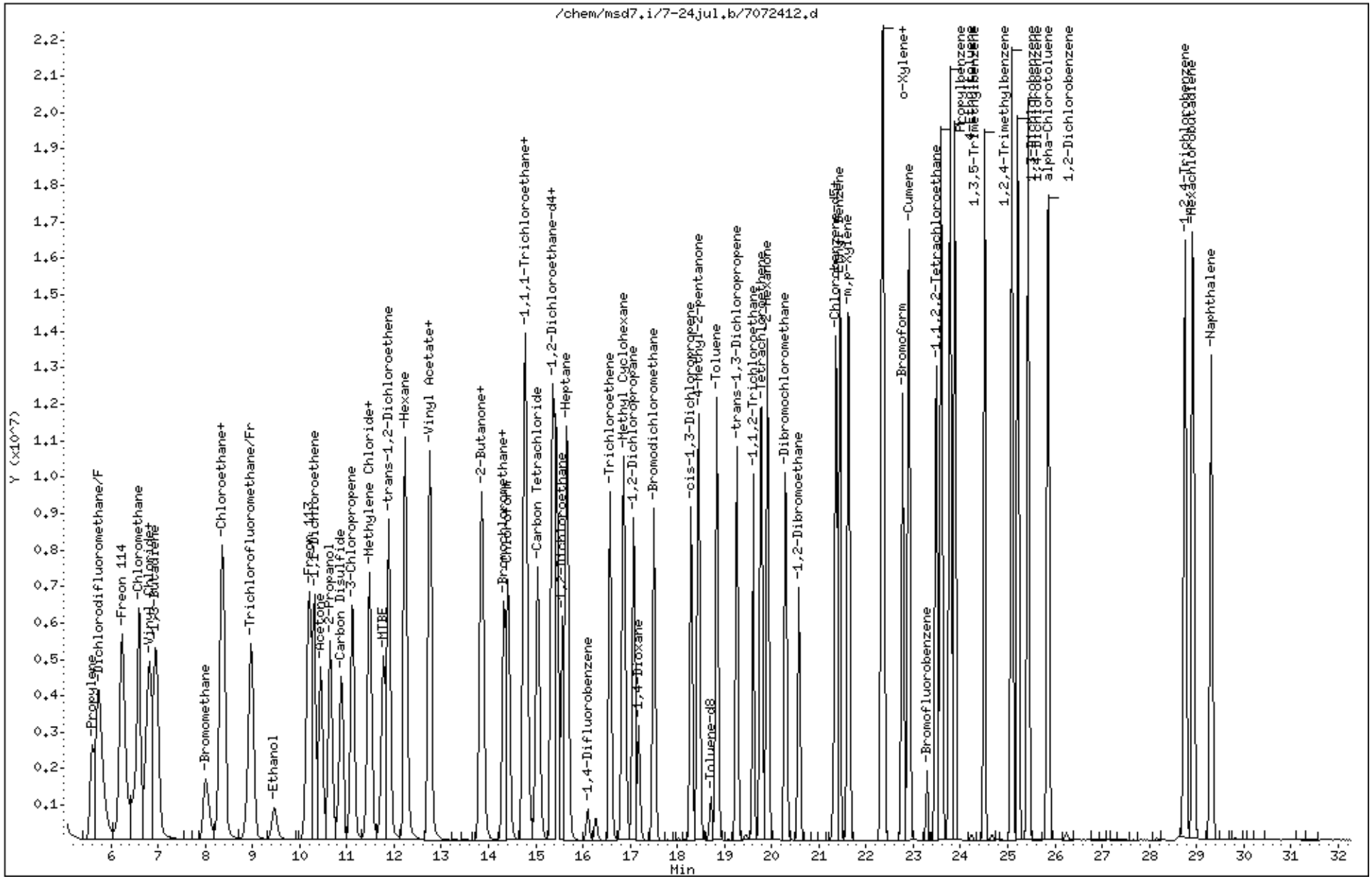
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	358443	215066	501820	369879	3.19
97 1,4-Difluorobenze	1288556	773134	1803978	1339131	3.92
126 Chlorobenzene-d5	1202945	721767	1684123	1280918	6.48

		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.

Data File: /chem/msd7.i/7-24jul.b/7072412.d
Date : 24-JUL-2008 15:39
Client ID: Level 7
Sample Info: 200mL#1541-210

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



0136

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807300-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/25/08 08:46 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	104
Vinyl Chloride	105
Bromomethane	107
Chloroethane	106
Freon 11	101
1,1-Dichloroethene	103
Freon 113	104
Methylene Chloride	87
1,1-Dichloroethane	102
cis-1,2-Dichloroethene	103
Chloroform	107
1,1,1-Trichloroethane	105
Carbon Tetrachloride	100
Benzene	108
1,2-Dichloroethane	100
Trichloroethene	105
1,2-Dichloropropane	104
cis-1,3-Dichloropropene	110
Toluene	104
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	102
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	103
Chlorobenzene	98
Ethyl Benzene	102
m,p-Xylene	100
o-Xylene	105
Styrene	101
1,1,2,2-Tetrachloroethane	93
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	92
1,3-Butadiene	103
Hexane	107
Cyclohexane	108

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807300-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/25/08 08:46 AM**	

Compound	**%Recovery**
Heptane	106
Bromodichloromethane	106
Dibromochloromethane	104
Cumene	99
Propylbenzene	97
Chloromethane	99
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	114
Acetone	104
Carbon Disulfide	106
2-Propanol	108
trans-1,2-Dichloroethene	104
2-Butanone (Methyl Ethyl Ketone)	109
Tetrahydrofuran	109
1,4-Dioxane	105
4-Methyl-2-pentanone	113
2-Hexanone	110
Bromoform	101
4-Ethyltoluene	97
Ethanol	112
Methyl tert-butyl ether	138 Q
3-Chloropropene	109
2,2,4-Trimethylpentane	106
Naphthalene	122

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i Injection Date: 25-JUL-2008 08:46
Lab File ID: 7072502.d Init. Cal. Date(s): 24-JUL-2008 24-JUL-2008
Analysis Type: AIR Init. Cal. Times: 11:12 19:21
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd7.i/7-25jul.b/t14q724a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 90 1,2-Dichloroethane-d4	2.23841	2.17180	0.010	2.97604	30.00000	Averaged	
$ 113 Toluene-d8	0.96584	0.99789	0.010	-3.31923	30.00000	Averaged	
$ 137 Bromofluorobenzene	0.59395	0.60068	0.010	-1.13265	30.00000	Averaged	
11 Propylene	2.76062	2.86033	0.010	-3.61159	30.00000	Averaged	
12 Dichlorodifluoromethane/Fr1	6.25822	6.41018	0.010	-2.42825	30.00000	Averaged	
16 Freon 114	4.06709	4.22323	0.010	-3.83914	30.00000	Averaged	
18 Chloromethane	3.28914	3.27186	0.010	0.52544	30.00000	Averaged	
20 Vinyl Chloride	3.29886	3.47427	0.010	-5.31726	30.00000	Averaged	
22 1,3-Butadiene	3.09472	3.18670	0.010	-2.97216	30.00000	Averaged	
25 Bromomethane	1.79739	1.92885	0.010	-7.31417	30.00000	Averaged	
27 Chloroethane	1.49819	1.58463	0.010	-5.76924	30.00000	Averaged	
31 Trichlorofluoromethane/Fr11	6.47566	6.56774	0.010	-1.42190	30.00000	Averaged	
38 Ethanol	1.36012	1.51760	0.010	-11.57851	30.00000	Averaged	
42 Freon 113	2.95737	3.07174	0.010	-3.86715	30.00000	Averaged	
43 1,1-Dichloroethene	5.31915	5.50417	0.010	-3.47826	30.00000	Averaged	
45 Acetone	1.62998	1.69370	0.010	-3.90928	30.00000	Averaged	
46 2-Propanol	6.70082	7.23594	0.010	-7.98585	30.00000	Averaged	
47 Carbon Disulfide	6.13245	6.53715	0.010	-6.59932	30.00000	Averaged	
51 3-Chloropropene	0.96333	1.04652	0.010	-8.63507	30.00000	Averaged	
54 Methylene Chloride	5.60768	4.85653	0.010	13.39496	30.00000	Averaged	
60 MTBE	3.41102	4.70613	0.010	-37.96853	30.00000	Averaged	<-
61 trans-1,2-Dichloroethene	2.12867	2.22413	0.010	-4.48460	30.00000	Averaged	
65 Hexane	5.25754	5.63306	0.010	-7.14265	30.00000	Averaged	
69 Vinyl Acetate	0.42732	0.43623	0.010	-2.08554	30.00000	Averaged	
70 1,1-Dichloroethane	5.71264	5.82852	0.010	-2.02842	30.00000	Averaged	
75 2-Butanone	0.89928	0.98343	0.010	-9.35721	30.00000	Averaged	
76 cis-1,2-Dichloroethene	4.16638	4.30194	0.010	-3.25362	30.00000	Averaged	
80 Tetrahydrofuran	3.51052	3.81465	0.010	-8.66333	30.00000	Averaged	
82 Chloroform	3.84272	4.10168	0.010	-6.73893	30.00000	Averaged	
83 1,1,1-Trichloroethane	4.14617	4.34053	0.010	-4.68782	30.00000	Averaged	
85 Cyclohexane	2.07391	2.24051	0.010	-8.03299	30.00000	Averaged	
87 Carbon Tetrachloride	4.15031	4.17163	0.010	-0.51376	30.00000	Averaged	
89 2,2,4-Trimethylpentane	12.59202	13.32791	0.010	-5.84415	30.00000	Averaged	
91 Benzene	1.35399	1.45780	0.010	-7.66688	30.00000	Averaged	
93 1,2-Dichloroethane	1.17617	1.17901	0.010	-0.24132	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i Injection Date: 25-JUL-2008 08:46
Lab File ID: 7072502.d Init. Cal. Date(s): 24-JUL-2008 24-JUL-2008
Analysis Type: AIR Init. Cal. Times: 11:12 19:21
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd7.i/7-25jul.b/t14q724a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Heptane	0.46364	0.49363	0.010	-6.46784	30.00000	Averaged
101 Trichloroethene	0.62594	0.65488	0.010	-4.62278	30.00000	Averaged
104 1,2-Dichloropropane	0.72176	0.75011	0.010	-3.92743	30.00000	Averaged
106 1,4-Dioxane	0.29765	0.31336	0.010	-5.27981	30.00000	Averaged
107 Bromodichloromethane	1.08832	1.15760	0.010	-6.36606	30.00000	Averaged
110 cis-1,3-Dichloropropene	0.79222	0.87241	0.010	-10.12302	30.00000	Averaged
111 4-Methyl-2-pentanone	0.67937	0.76701	0.010	-12.89912	30.00000	Averaged
114 Toluene	1.56454	1.62785	0.010	-4.04639	30.00000	Averaged
116 trans-1,3-Dichloropropene	0.97259	1.02371	0.010	-5.25597	30.00000	Averaged
117 1,1,2-Trichloroethane	0.62091	0.63203	0.010	-1.79132	30.00000	Averaged
120 Tetrachloroethene	0.80588	0.82569	0.010	-2.45827	30.00000	Averaged
121 2-Hexanone	1.03238	1.13468	0.010	-9.90957	30.00000	Averaged
122 Dibromochloromethane	1.14733	1.19087	0.010	-3.79537	30.00000	Averaged
123 1,2-Dibromoethane	0.99972	1.02922	0.010	-2.95025	30.00000	Averaged
127 Chlorobenzene	1.52752	1.50588	0.010	1.41660	30.00000	Averaged
128 Ethyl Benzene	0.71238	0.73055	0.010	-2.55059	30.00000	Averaged
129 m,p-Xylene	0.92826	0.92670	0.010	0.16781	30.00000	Averaged
130 o-Xylene	0.83094	0.86953	0.010	-4.64338	30.00000	Averaged
131 Styrene	1.41244	1.42929	0.010	-1.19336	30.00000	Averaged
133 Bromoform	1.14269	1.15978	0.010	-1.49506	30.00000	Averaged
134 Cumene	2.57363	2.54156	0.010	1.24599	30.00000	Averaged
140 1,1,2,2-Tetrachloroethane	1.58341	1.47386	0.010	6.91846	30.00000	Averaged
142 Propylbenzene	3.63461	3.53004	0.010	2.87727	30.00000	Averaged
145 4-Ethyltoluene	3.05376	2.95027	0.010	3.38920	30.00000	Averaged
147 1,3,5-Trimethylbenzene	2.43180	2.26641	0.010	6.80114	30.00000	Averaged
150 1,2,4-Trimethylbenzene	2.37108	2.25222	0.010	5.01306	30.00000	Averaged
155 1,3-Dichlorobenzene	1.82454	1.68452	0.010	7.67436	30.00000	Averaged
156 1,4-Dichlorobenzene	1.89300	1.75022	0.010	7.54266	30.00000	Averaged
159 alpha-Chlorotoluene	2.73964	2.77605	0.010	-1.32898	30.00000	Averaged
161 1,2-Dichlorobenzene	1.84803	1.69214	0.010	8.43536	30.00000	Averaged
165 1,2,4-Trichlorobenzene	0.99935	1.17972	0.010	-18.04956	30.00000	Averaged
166 Hexachlorobutadiene	0.87785	0.99709	0.010	-13.58289	30.00000	Averaged
29 Isopentane	4.60954	4.81072	0.010	-4.36446	30.00000	Averaged
19 Butane	0.64180	0.68866	0.010	-7.30182	30.00000	Averaged
102 Methyl Cyclohexane	2.64338	2.84984	0.010	-7.81026	30.00000	Averaged
167 Naphthalene	1.88998	2.30433	0.010	-21.92349	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd7.i Injection Date: 25-JUL-2008 08:46
Lab File ID: 7072502.d Init. Cal. Date(s): 24-JUL-2008 24-JUL-2008
Analysis Type: AIR Init. Cal. Times: 11:12 19:21
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd7.i/7-25jul.b/t14q724a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 tert-Butyl-Alcohol	3.11345	3.78170	0.010	-21.46357	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-25jul.b/7072502.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 25-JUL-2008 08:46
Operator : ra Inst ID: msd7.i
Smp Info : 50mL#1541-210
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-25jul.b/t14q724a.m
Meth Date : 25-Jul-2008 11:04 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:39 Cal File: 7072412.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		
14.319	14.319 (1.000)	130	379144	25.0000		80.00- 120.00	100.00
14.319	14.319 (1.000)	128	294107			27.57- 127.57	77.57
14.319	14.319 (1.000)	49	1695496			397.19- 497.19	447.19
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.089	16.089 (1.000)	114	1330831	25.0000		80.00- 120.00	100.00
16.089	16.089 (1.000)	88	205920			0.00- 65.47	15.47
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1248438	25.0000		80.00- 120.00	100.00
21.287	21.287 (1.000)	82	738885			7.70- 107.70	59.18
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.425	15.425 (1.077)	65	823424	25.0000	24.256	80.00- 120.00	100.00
15.425	15.425 (1.077)	67	408285			0.00- 97.26	49.58
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.163)	98	1328028	25.0000	25.830	80.00- 120.00	100.00
18.716	18.716 (1.163)	70	183170			0.00- 64.06	13.79

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	897884			17.06- 117.06	67.61
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	749907	25.0000	25.283	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	1033439			87.81- 187.81	137.81
23.278	23.278 (1.092)	176	734819			47.99- 147.99	97.99
11 Propylene					CAS #: 115-07-1		
5.582	5.582 (0.390)	41	2168951	50.0000	51.806	80.00- 120.00	100.00
5.582	5.582 (0.390)	42	1532968			17.57- 117.57	70.68
5.582	5.582 (0.390)	39	1684460			28.91- 128.91	77.66
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.720	5.720 (0.399)	85	4860764	50.0000	51.214	80.00- 120.00	100.00
5.720	5.720 (0.399)	87	1549913			0.00- 83.12	31.89
16 Freon 114					CAS #: 76-14-2		
6.135	6.135 (0.428)	135	3202427	50.0000	51.920	80.00- 120.00	100.00
6.135	6.135 (0.428)	137	1014364			0.00- 81.67	31.67
18 Chloromethane					CAS #: 74-87-3		
6.467	6.467 (0.452)	50	2481009	50.0000	49.737	80.00- 120.00	100.00
6.439	6.439 (0.450)	52	777084			0.00- 80.60	31.32
20 Vinyl Chloride					CAS #: 75-01-4		
6.826	6.826 (0.477)	62	2634500	50.0000	52.659	80.00- 120.00	100.00
6.826	6.826 (0.477)	64	726947			0.00- 79.39	27.59
22 1,3-Butadiene					CAS #: 106-99-0		
6.882	6.882 (0.481)	54	2416433	50.0000	51.486	80.00- 120.00	100.00
6.882	6.882 (0.481)	39	2421169			53.85- 153.85	100.20
25 Bromomethane					CAS #: 74-83-9		
7.988	7.988 (0.558)	94	1462625	50.0000	53.657	80.00- 120.00	100.00
7.960	7.960 (0.556)	96	1339598			41.59- 141.59	91.59
27 Chloroethane					CAS #: 75-00-3		
8.292	8.292 (0.579)	64	1201603	50.0000	52.885	80.00- 120.00	100.00
8.292	8.292 (0.579)	49	512150			0.00- 97.46	42.62
8.292	8.292 (0.579)	66	342540			0.00- 79.98	28.51
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.900	8.900 (0.622)	101	4980239	50.0000	50.711	80.00- 120.00	100.00
8.900	8.900 (0.622)	103	3149435			13.24- 113.24	63.24

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 (0.656)	45	1150775	50.0000	55.789	80.00- 120.00	100.00
9.370	9.370 (0.654)	43	245042			0.00- 72.32	21.29
9.398	9.398 (0.656)	46	435636			0.00- 86.95	37.86
42 Freon 113					CAS #: 76-13-1		
10.144	10.144 (0.708)	151	2329262	50.0000	51.934	80.00- 120.00	100.00
10.144	10.144 (0.708)	153	1464478			12.87- 112.87	62.87
10.144	10.144 (0.708)	101	3034312			80.27- 180.27	130.27
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.255	10.255 (0.716)	61	4173745	50.0000	51.739	80.00- 120.00	100.00
10.255	10.255 (0.716)	96	1495071			0.00- 85.82	35.82
10.255	10.255 (0.716)	98	930680			0.00- 72.30	22.30
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.728)	58	1284310	50.0000	51.955	80.00- 120.00	100.00
10.393	10.393 (0.726)	43	4949022			337.38- 437.38	385.34
46 2-Propanol					CAS #: 67-63-0		
10.614	10.614 (0.741)	45	5486923	50.0000	53.993	80.00- 120.00	100.00
10.614	10.614 (0.741)	43	1255776			0.00- 74.82	22.89
10.614	10.614 (0.741)	59	171538			0.00- 53.58	3.13
47 Carbon Disulfide					CAS #: 75-15-0		
10.808	10.808 (0.755)	76	4957045	50.0000	53.300	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.084	11.084 (0.774)	76	793561	50.0000	54.318	80.00- 120.00	100.00
11.084	11.084 (0.774)	41	3855716			426.83- 526.83	485.88
54 Methylene Chloride					CAS #: 75-09-2		
11.416	11.416 (0.797)	49	3682650	50.0000	43.302	80.00- 120.00	100.00
11.416	11.416 (0.797)	84	1268030			0.00- 84.43	34.43
11.416	11.416 (0.797)	51	1111498			0.00- 81.01	30.18
60 MTBE					CAS #: 1634-04-4		
11.748	11.748 (0.820)	73	3568604	50.0000	68.984	80.00- 120.00	100.00
11.748	11.748 (0.820)	57	1250564			0.00- 85.04	35.04
11.748	11.748 (0.820)	41	1315577			0.00- 95.41	36.87
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.859	11.859 (0.828)	96	1686532	50.0000	52.242	80.00- 120.00	100.00
11.859	11.859 (0.828)	61	4012896			187.94- 287.94	237.94
11.859	11.859 (0.828)	98	1061005			9.25- 109.25	62.91

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 (0.853)	57	4271485	50.0000	53.571	80.00- 120.00	100.00
12.218	12.218 (0.853)	43	3027418			22.81- 122.81	70.88
12.218	12.218 (0.853)	86	355558			0.00- 58.81	8.32
69 Vinyl Acetate					CAS #: 108-05-4		
12.716	12.716 (0.888)	86	330787	50.0000	51.043	80.00- 120.00	100.00
12.716	12.716 (0.888)	43	8202358			2315.51-2415.51	2479.65
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.743	12.743 (0.890)	63	4419697	50.0000	51.014	80.00- 120.00	100.00
12.743	12.743 (0.890)	65	1289900			0.00- 79.19	29.19
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.965)	72	745724	50.0000	54.679	80.00- 120.00	100.00
13.794	13.794 (0.963)	43	5637781			706.01- 806.01	756.01
13.794	13.794 (0.963)	57	405901			11.32- 111.32	54.43
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.849	13.849 (0.967)	61	3262111	50.0000	51.627	80.00- 120.00	100.00
13.849	13.849 (0.967)	96	1496129			0.00- 95.86	45.86
13.849	13.849 (0.967)	98	947697			0.00- 79.05	29.05
80 Tetrahydrofuran					CAS #: 109-99-9		
14.319	14.319 (1.000)	42	2892604	50.0000	54.332	80.00- 120.00	100.00
14.319	14.319 (1.000)	71	656205			0.00- 72.69	22.69
14.319	14.319 (1.000)	72	708198			0.00- 75.11	24.48
82 Chloroform					CAS #: 67-66-3		
14.402	14.402 (1.006)	83	3110257	50.0000	53.369	80.00- 120.00	100.00
14.402	14.402 (1.006)	85	1958045			12.95- 112.95	62.95
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.762	14.762 (1.031)	97	3291372	50.0000	52.344	80.00- 120.00	100.00
14.762	14.762 (1.031)	99	2104725			13.95- 113.95	63.95
85 Cyclohexane					CAS #: 110-82-7		
14.789	14.789 (1.033)	84	1698953	50.0000	54.016	80.00- 120.00	100.00
14.762	14.762 (1.031)	56	3683844			166.83- 266.83	216.83
14.762	14.762 (1.031)	41	2248197			82.33- 182.33	132.33
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.050)	119	3163296	50.0000	50.257	80.00- 120.00	100.00
15.038	15.038 (1.050)	117	3349423			55.88- 155.88	105.88
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.073)	57	10106396	50.0000	52.922	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 (1.073)	56	3475455			0.00- 84.79	34.39
15.370	15.370 (1.073)	41	3052449			0.00- 82.30	30.20
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.960)	78	3880162	50.0000	53.833	80.00- 120.00	100.00
15.453	15.453 (0.960)	77	866069			0.00- 73.75	22.32
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.967)	62	3138134	50.0000	50.121	80.00- 120.00	100.00
15.564	15.564 (0.967)	64	918271			0.00- 79.85	29.26
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.972)	71	1313863	50.0000	53.234	80.00- 120.00	100.00
15.647	15.647 (0.972)	43	4075942			263.55- 363.55	310.23
15.647	15.647 (0.972)	57	2030702			101.27- 201.27	154.56
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.031)	95	1743061	50.0000	52.311	80.00- 120.00	100.00
16.587	16.587 (1.031)	130	1509419			36.60- 136.60	86.60
16.587	16.587 (1.031)	97	1090773			12.58- 112.58	62.58
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.060)	63	1996540	50.0000	51.964	80.00- 120.00	100.00
17.057	17.057 (1.060)	62	1484805			24.37- 124.37	74.37
17.057	17.057 (1.060)	41	1666500			33.47- 133.47	83.47
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.069)	88	834070	50.0000	52.640	80.00- 120.00	100.00
17.195	17.195 (1.069)	58	1084601			80.04- 180.04	130.04
17.195	17.195 (1.069)	57	377500			0.00- 93.19	45.26
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.088)	83	3081139	50.0000	53.183	80.00- 120.00	100.00
17.499	17.499 (1.088)	85	1911941			12.05- 112.05	62.05
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.136)	75	2322067	50.0000	55.062	80.00- 120.00	100.00
18.273	18.273 (1.136)	77	719334			0.00- 80.98	30.98
18.273	18.273 (1.136)	39	2268003			47.67- 147.67	97.67
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.148)	58	2041513	50.0000	56.450	80.00- 120.00	100.00
18.439	18.439 (1.146)	43	5817922			234.93- 334.93	284.98
18.467	18.467 (1.148)	85	495478			0.00- 75.34	24.27

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	4332777	50.0000	52.023	80.00- 120.00	100.00
18.826	18.826 (1.170)	92	2676741			11.78- 111.78	61.78
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	2556079	50.0000	52.628	80.00- 120.00	100.00
19.269	19.269 (0.904)	77	809686			0.00- 81.68	31.68
19.241	19.241 (0.903)	39	2290838			39.62- 139.62	89.62
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.600	19.600 (0.920)	97	1578094	50.0000	50.896	80.00- 120.00	100.00
19.600	19.600 (0.920)	99	953990			10.45- 110.45	60.45
19.600	19.600 (0.920)	83	1320156			33.66- 133.66	83.66
120 Tetrachloroethene					CAS #: 127-18-4		
19.766	19.766 (0.927)	166	2061650	50.0000	51.229	80.00- 120.00	100.00
19.766	19.766 (0.927)	129	1488839			22.22- 122.22	72.22
19.766	19.766 (0.927)	131	1531975			24.31- 124.31	74.31
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	2833155	50.0000	54.955	80.00- 120.00	100.00
19.905	19.905 (0.934)	43	5858901			156.80- 256.80	206.80
19.905	19.905 (0.934)	100	299308			0.00- 59.97	10.56
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	2973458	50.0000	51.898	80.00- 120.00	100.00
20.292	20.292 (0.952)	127	2292434			27.29- 127.29	77.10
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	2569827	50.0000	51.475	80.00- 120.00	100.00
20.568	20.568 (0.965)	109	2373770			42.37- 142.37	92.37
127 Chlorobenzene					CAS #: 108-90-7		
21.342	21.342 (1.001)	112	3759997	50.0000	49.292	80.00- 120.00	100.00
21.342	21.342 (1.001)	114	1183412			0.00- 81.47	31.47
21.342	21.342 (1.001)	77	2307851			11.38- 111.38	61.38
128 Ethyl Benzene					CAS #: 100-41-4		
21.425	21.425 (1.005)	106	1824088	50.0000	51.275	80.00- 120.00	100.00
21.425	21.425 (1.005)	91	6437920			312.17- 412.17	352.94
129 m,p-Xylene					CAS #: 108-38-3		
21.619	21.619 (1.014)	106	2313863	50.0000	49.916	80.00- 120.00	100.00
21.619	21.619 (1.014)	91	5288278			179.26- 279.26	228.55
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	2171100	50.0000	52.322	80.00- 120.00	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	5222604			190.55- 290.55	240.55
131 Styrene					CAS #: 100-42-5		
22.365	22.365 (1.049)	104	3568772	50.0000	50.597	80.00- 120.00	100.00
22.365	22.365 (1.049)	78	2150483			10.26- 110.26	60.26
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	2895818	50.0000	50.748	80.00- 120.00	100.00
22.780	22.780 (1.069)	171	1503241			1.91- 101.91	51.91
134 Cumene					CAS #: 98-82-8		
22.918	22.918 (1.075)	105	6345961	50.0000	49.377	80.00- 120.00	100.00
22.918	22.918 (1.075)	120	1732611			0.00- 77.67	27.30
22.891	22.891 (1.074)	51	1265943			0.00- 71.10	19.95
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	3680056	50.0000	46.541	80.00- 120.00	100.00
23.499	23.499 (1.102)	85	2314087			12.88- 112.88	62.88
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	8814064	50.0000	48.561	80.00- 120.00	100.00
23.582	23.582 (1.106)	120	1869473			0.00- 71.33	21.21
23.582	23.582 (1.106)	105	302180			0.00- 53.45	3.43
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	7366449	50.0000	48.305	80.00- 120.00	100.00
23.776	23.776 (1.115)	120	2419291			0.00- 82.84	32.84
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.858	23.858 (1.119)	105	5658945	50.0000	46.599	80.00- 120.00	100.00
23.858	23.858 (1.119)	120	2895577			0.15- 100.15	51.17
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.494	24.494 (1.149)	105	5623504	50.0000	47.493	80.00- 120.00	100.00
24.494	24.494 (1.149)	120	2718325			0.00- 97.16	48.34
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	4206027	50.0000	46.163	80.00- 120.00	100.00
25.075	25.075 (1.176)	148	2645405			14.61- 114.61	62.90
25.075	25.075 (1.176)	111	1832012			0.00- 93.11	43.56
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.213	25.213 (1.183)	146	4370075	50.0000	46.229	80.00- 120.00	100.00
25.241	25.241 (1.184)	148	2775037			13.36- 113.36	63.50
25.213	25.213 (1.183)	111	1837938			0.00- 92.11	42.06

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	6931450	50.0000	50.664	80.00- 120.00	100.00
25.435	25.435 (1.193)	126	1236032			0.00- 68.07	17.83
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	4225074	50.0000	45.782	80.00- 120.00	100.00
25.877	25.877 (1.214)	148	2719942			14.38- 114.38	64.38
25.877	25.877 (1.214)	111	1898406			0.00- 94.93	44.93
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.752	28.752 (1.349)	180	2945622	50.0000	59.025	80.00- 120.00	100.00
28.752	28.752 (1.349)	182	2783460			44.49- 144.49	94.49
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	2489599	50.0000	56.791	80.00- 120.00	100.00
28.946	28.946 (1.358)	223	1550420			13.81- 113.81	62.28
29 Isopentane					CAS #: 78-78-4		
8.292	8.292 (0.579)	43	3647913	50.0000	52.182	80.00- 120.00	100.00
8.292	8.292 (0.579)	57	2323210			11.13- 111.13	63.69
19 Butane					CAS #: 106-97-8		
6.688	6.688 (0.467)	58	522201	50.0000	53.651	80.00- 120.00	100.00
6.688	6.688 (0.467)	43	4447312			840.33- 940.33	851.65
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.178)	83	2160996	50.0000	53.905	80.00- 120.00	100.00
16.863	16.863 (1.178)	98	964954			0.00- 95.26	44.65
16.863	16.863 (1.178)	55	3388039			110.72- 210.72	156.78
167 Naphthalene					CAS #: 91-20-3		
29.305	29.305 (1.375)	128	5753638	50.0000	60.962	80.00- 120.00	100.00
29.305	29.305 (1.375)	127	701324			0.00- 62.45	12.19
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.444	11.444 (0.799)	59	2867619	50.0000	60.732	80.00- 120.00	100.00
11.444	11.444 (0.799)	41	713269			0.00- 80.33	24.87
11.444	11.444 (0.799)	57	305678			0.00- 60.11	10.66

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072502.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 25-JUL-2008
Calibration Time: 08:46
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	379144	227486	530802	379144	0.00
97 1,4-Difluorobenze	1330831	798499	1863163	1330831	0.00
126 Chlorobenzene-d5	1248438	749063	1747813	1248438	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.

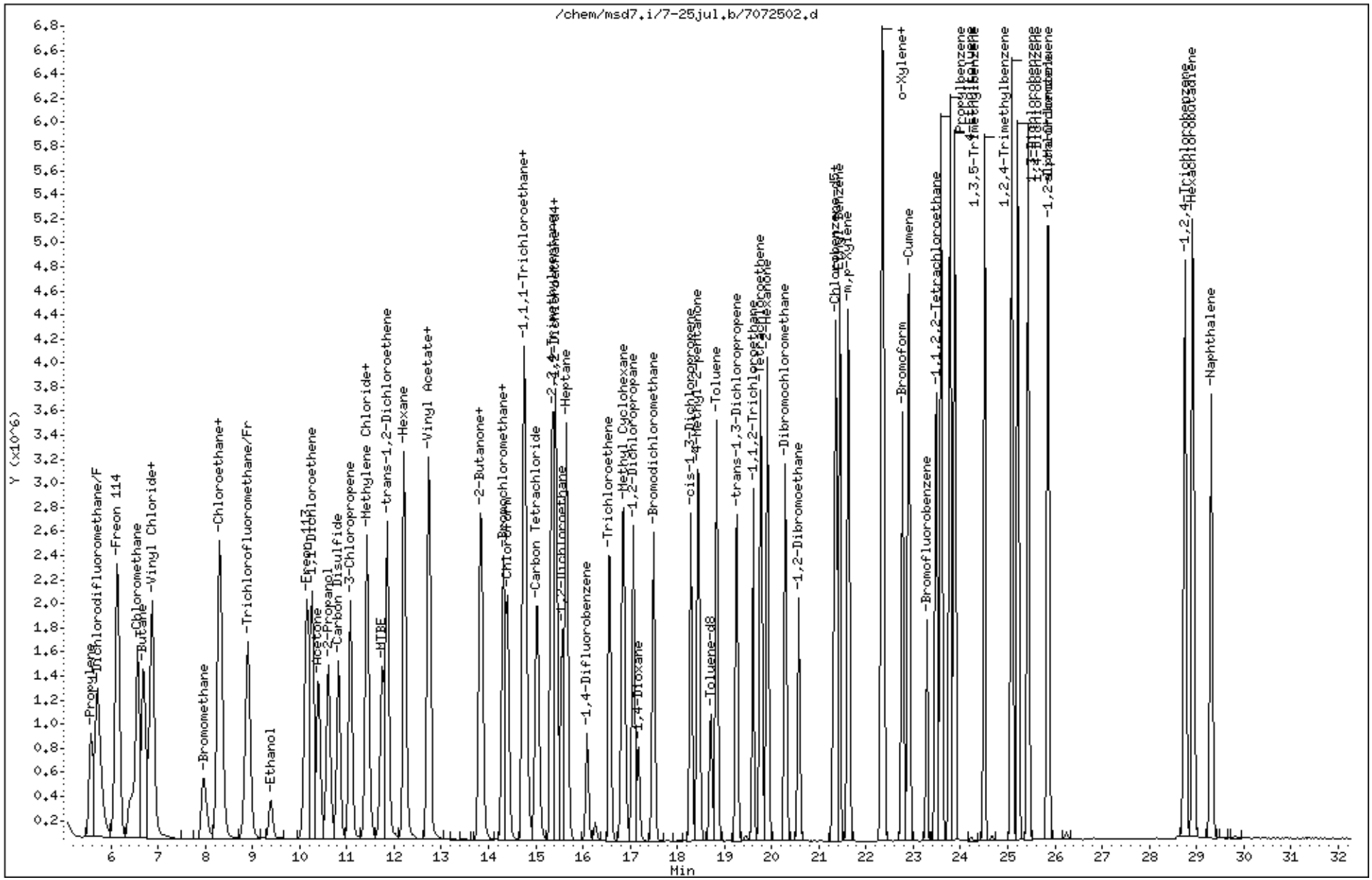
0151

Data File: /chem/msd7.i/7-25jul.b/7072502.d
Date : 25-JUL-2008 08:46
Client ID: CCV-1
Sample Info: 50mL#1541-210

Instrument: msd7.i

Operator: ra
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0807300-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/25/08 09:25 AM**	

Compound	%Recovery
Freon 12	91
Freon 114	94
Vinyl Chloride	93
Bromomethane	94
Chloroethane	94
Freon 11	91
1,1-Dichloroethene	105
Freon 113	105
Methylene Chloride	86
1,1-Dichloroethane	99
cis-1,2-Dichloroethene	97
Chloroform	101
1,1,1-Trichloroethane	99
Carbon Tetrachloride	94
Benzene	98
1,2-Dichloroethane	93
Trichloroethene	94
1,2-Dichloropropane	93
cis-1,3-Dichloropropene	98
Toluene	100
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	92
Tetrachloroethene	93
1,2-Dibromoethane (EDB)	89
Chlorobenzene	87
Ethyl Benzene	90
m,p-Xylene	87
o-Xylene	93
Styrene	90
1,1,2,2-Tetrachloroethane	84
1,3,5-Trimethylbenzene	81
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	81
1,4-Dichlorobenzene	80
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	78
1,3-Butadiene	91
Hexane	99
Cyclohexane	101

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0807300-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7072503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/25/08 09:25 AM**	

Compound	%Recovery
Heptane	99
Bromodichloromethane	98
Dibromochloromethane	92
Cumene	89
Propylbenzene	88
Chloromethane	89
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	85
Acetone	98
Carbon Disulfide	98
2-Propanol	102
trans-1,2-Dichloroethene	98
2-Butanone (Methyl Ethyl Ketone)	101
Tetrahydrofuran	103
1,4-Dioxane	96
4-Methyl-2-pentanone	105
2-Hexanone	99
Bromoform	92
4-Ethyltoluene	85
Ethanol	102
Methyl tert-butyl ether	128
3-Chloropropene	100
2,2,4-Trimethylpentane	99
Naphthalene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 25-Jul-2008 11:04

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 7-25jul
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/7-25jul.b/t14q724a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	45.523	91.05	70-130
16 Freon 114	50.000	46.761	93.52	70-130
18 Chloromethane	50.000	44.413	88.83	70-130
20 Vinyl Chloride	50.000	46.504	93.01	70-130
22 1,3-Butadiene	50.000	45.640	91.28	60-140
25 Bromomethane	50.000	46.803	93.61	70-130
27 Chloroethane	50.000	47.257	94.51	70-130
31 Trichlorofluoromet	50.000	45.422	90.84	70-130
38 Ethanol	50.000	50.754	101.51	60-140
42 Freon 113	50.000	52.318	104.64	70-130
43 1,1-Dichloroethene	50.000	52.371	104.74	70-130
45 Acetone	50.000	48.985	97.97	60-140
47 Carbon Disulfide	50.000	49.009	98.02	60-140
46 2-Propanol	50.000	51.112	102.22	60-140
54 Methylene Chloride	50.000	43.136	86.27	70-130
60 MTBE	50.000	64.088	128.18	60-140
61 trans-1,2-Dichloro	50.000	48.957	97.91	60-140
65 Hexane	50.000	49.589	99.18	60-140
69 Vinyl Acetate	50.000	50.804	101.61	60-140
70 1,1-Dichloroethane	50.000	49.426	98.85	70-130
76 cis-1,2-Dichloroet	50.000	48.616	97.23	70-130
75 2-Butanone	50.000	50.531	101.06	60-140
80 Tetrahydrofuran	50.000	51.591	103.18	60-140
82 Chloroform	50.000	50.311	100.62	70-130
85 Cyclohexane	50.000	50.425	100.85	60-140
83 1,1,1-Trichloroeth	50.000	49.638	99.28	70-130
87 Carbon Tetrachlori	50.000	47.193	94.39	70-130
91 Benzene	50.000	49.042	98.08	70-130
93 1,2-Dichloroethane	50.000	46.600	93.20	70-130
94 Heptane	50.000	49.511	99.02	60-140
101 Trichloroethene	50.000	47.092	94.18	70-130
104 1,2-Dichloropropan	50.000	46.745	93.49	70-130
106 1,4-Dioxane	50.000	48.257	96.51	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 Bromodichlorometha	50.000	49.229	98.46	60-140
110 cis-1,3-Dichloropr	50.000	49.220	98.44	70-130
111 4-Methyl-2-pentano	50.000	52.474	104.95	60-140
114 Toluene	50.000	49.882	99.76	70-130
116 trans-1,3-Dichloro	50.000	46.653	93.31	70-130
117 1,1,2-Trichloroeth	50.000	46.104	92.21	70-130
120 Tetrachloroethene	50.000	46.418	92.84	70-130
121 2-Hexanone	50.000	49.522	99.05	60-140
122 Dibromochlorometha	50.000	46.066	92.13	60-140
123 1,2-Dibromoethane	50.000	44.561	89.12	70-130
127 Chlorobenzene	50.000	43.695	87.39	70-130
128 Ethyl Benzene	50.000	45.263	90.53	70-130
129 m,p-Xylene	50.000	43.532	87.06	70-130
130 o-Xylene	50.000	46.486	92.97	70-130
131 Styrene	50.000	45.103	90.21	70-130
133 Bromoform	50.000	45.760	91.52	60-140
140 1,1,2,2-Tetrachlor	50.000	42.048	84.10	70-130
145 4-Ethyltoluene	50.000	42.315	84.63	60-140
147 1,3,5-Trimethylben	50.000	40.594	81.19	70-130
150 1,2,4-Trimethylben	50.000	41.437	82.87	70-130
155 1,3-Dichlorobenzen	50.000	40.379	80.76	70-130
156 1,4-Dichlorobenzen	50.000	40.124	80.25	70-130
159 alpha-Chlorotoluen	50.000	44.310	88.62	70-130
161 1,2-Dichlorobenzen	50.000	39.208	78.42	70-130
165 1,2,4-Trichloroben	50.000	43.943	87.89	70-130
166 Hexachlorobutadien	50.000	42.560	85.12	70-130
142 Propylbenzene	50.000	43.879	87.76	60-140
134 Cumene	50.000	44.544	89.09	60-140
51 3-Chloropropene	50.000	50.041	100.08	60-140
89 2,2,4-Trimethylpen	50.000	49.404	98.81	60-140
29 Isopentane	50.000	46.422	92.85	70-130
19 Butane	50.000	48.287	96.57	70-130
102 Methyl Cyclohexane	50.000	51.500	103.00	70-130
11 Propylene	50.000	47.924	95.85	60-140
167 Naphthalene	50.000	46.955	93.91	60-140
57 tert-Butyl-Alcohol	50.000	54.641	109.28	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	24.632	98.53	70-130
$ 113 Toluene-d8	25.000	25.457	101.83	70-130
$ 137 Bromofluorobenzene	25.000	25.004	100.02	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd7.i/7-25jul.b/7072503.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 25-JUL-2008 09:25
Operator : ra Inst ID: msd7.i
Smp Info : 50mL#1541-137
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd7.i/7-25jul.b/t14q724a.m
Meth Date : 25-Jul-2008 11:04 lover Quant Type: ISTD
Cal Date : 24-JUL-2008 15:39 Cal File: 7072412.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	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.347	14.319 (1.000)	130	369976	25.0000		80.00- 120.00	100.00
14.347	14.319 (1.000)	128	291909			27.57- 127.57	78.90
14.347	14.319 (1.000)	49	1612728			397.19- 497.19	435.90
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
16.117	16.089 (1.000)	114	1336369	25.0000		80.00- 120.00	100.00
16.117	16.089 (1.000)	88	206870			0.00- 65.47	15.48
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
21.315	21.315 (1.000)	117	1273544	25.0000		80.00- 120.00	100.00
21.315	21.287 (1.000)	82	729074			7.70- 107.70	57.25
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.426	15.425 (1.075)	65	815957	24.6316	24.632	80.00- 120.00	100.00
15.426	15.425 (1.075)	67	409950			0.00- 97.26	50.24
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.716	18.716 (1.161)	98	1314305	25.4570	25.457	80.00- 120.00	100.00
18.716	18.716 (1.161)	70	180149			0.00- 64.06	13.71

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	892902			17.06- 117.06	67.94
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
23.278	23.278 (1.092)	174	756557	25.0045	25.004	80.00- 120.00	100.00
23.278	23.278 (1.092)	95	1028490			87.81- 187.81	135.94
23.278	23.278 (1.092)	176	722427			47.99- 147.99	95.49
11 Propylene					CAS #: 115-07-1		
5.610	5.582 (0.391)	41	1957895	47.9235	47.924	80.00- 120.00	100.00
5.610	5.582 (0.391)	42	1343207			17.57- 117.57	68.60
5.610	5.582 (0.391)	39	1599099			28.91- 128.91	81.67
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.748	5.720 (0.401)	85	4216130	45.5229	45.523	80.00- 120.00	100.00
5.748	5.720 (0.401)	87	1313059			0.00- 83.12	31.14
16 Freon 114					CAS #: 76-14-2		
6.191	6.135 (0.431)	135	2814506	46.7611	46.761	80.00- 120.00	100.00
6.191	6.135 (0.431)	137	889365			0.00- 81.67	31.60
18 Chloromethane					CAS #: 74-87-3		
6.495	6.467 (0.453)	50	2161852	44.4130	44.413	80.00- 120.00	100.00
6.495	6.439 (0.453)	52	652522			0.00- 80.60	30.18
20 Vinyl Chloride					CAS #: 75-01-4		
6.854	6.826 (0.478)	62	2270344	46.5044	46.504	80.00- 120.00	100.00
6.854	6.826 (0.478)	64	634610			0.00- 79.39	27.95
22 1,3-Butadiene					CAS #: 106-99-0		
6.910	6.882 (0.482)	54	2090250	45.6398	45.640	80.00- 120.00	100.00
6.910	6.882 (0.482)	39	2134623			53.85- 153.85	102.12
25 Bromomethane					CAS #: 74-83-9		
8.016	7.988 (0.559)	94	1244948	46.8032	46.803	80.00- 120.00	100.00
8.016	7.960 (0.559)	96	1160474			41.59- 141.59	93.21
27 Chloroethane					CAS #: 75-00-3		
8.347	8.292 (0.582)	64	1047771	47.2569	47.257	80.00- 120.00	100.00
8.347	8.292 (0.582)	49	451022			0.00- 97.46	43.05
8.347	8.292 (0.582)	66	288607			0.00- 79.98	27.54
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.928	8.900 (0.622)	101	4352955	45.4220	45.422	80.00- 120.00	100.00
8.928	8.900 (0.622)	103	2750820			13.24- 113.24	63.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.426	9.398 (0.657)	45	1021594	50.7539	50.754	80.00- 120.00	100.00
9.426	9.370 (0.657)	43	206489			0.00- 72.32	20.21
9.426	9.398 (0.657)	46	382489			0.00- 86.95	37.44
42 Freon 113					CAS #: 76-13-1		
10.172	10.144 (0.709)	151	2289756	52.3178	52.318	80.00- 120.00	100.00
10.172	10.144 (0.709)	153	1453632			12.87- 112.87	63.48
10.172	10.144 (0.709)	101	2982566			80.27- 180.27	130.26
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.283	10.255 (0.717)	61	4122547	52.3708	52.371	80.00- 120.00	100.00
10.283	10.255 (0.717)	96	1472696			0.00- 85.82	35.72
10.283	10.255 (0.717)	98	949041			0.00- 72.30	23.02
45 Acetone					CAS #: 67-64-1		
10.421	10.421 (0.726)	58	1181611	48.9846	48.985	80.00- 120.00	100.00
10.421	10.393 (0.726)	43	4509925			337.38- 437.38	381.68
46 2-Propanol					CAS #: 67-63-0		
10.642	10.614 (0.742)	45	5068602	51.1125	51.112	80.00- 120.00	100.00
10.642	10.614 (0.742)	43	1178909			0.00- 74.82	23.26
10.642	10.614 (0.742)	59	153801			0.00- 53.58	3.03
47 Carbon Disulfide					CAS #: 75-15-0		
10.836	10.808 (0.755)	76	4447812	49.0093	49.009	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.112	11.084 (0.775)	76	713411	50.0415	50.041	80.00- 120.00	100.00
11.112	11.084 (0.775)	41	3545709			426.83- 526.83	497.01
54 Methylene Chloride					CAS #: 75-09-2		
11.444	11.416 (0.798)	49	3579759	43.1357	43.136	80.00- 120.00	100.00
11.444	11.416 (0.798)	84	1247757			0.00- 84.43	34.86
11.444	11.416 (0.798)	51	1090115			0.00- 81.01	30.45
60 MTBE					CAS #: 1634-04-4		
11.776	11.748 (0.821)	73	3235149	64.0880	64.088	80.00- 120.00	100.00
11.776	11.748 (0.821)	57	1145406			0.00- 85.04	35.41
11.776	11.748 (0.821)	41	1198386			0.00- 95.41	37.04
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.886	11.859 (0.828)	96	1542266	48.9573	48.957	80.00- 120.00	100.00
11.886	11.859 (0.828)	61	3612369			187.94- 287.94	234.22
11.886	11.859 (0.828)	98	950237			9.25- 109.25	61.61

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	12.218 (0.854)	57	3858372	49.5893	49.589	80.00- 120.00	100.00
12.246	12.218 (0.854)	43	2689694			22.81- 122.81	69.71
12.246	12.218 (0.854)	86	321614			0.00- 58.81	8.34
69 Vinyl Acetate					CAS #: 108-05-4		
12.744	12.716 (0.888)	86	321276	50.8036	50.804	80.00- 120.00	100.00
12.744	12.716 (0.888)	43	7474220			2315.51-2415.51	2326.42
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.771	12.743 (0.890)	63	4178589	49.4264	49.426	80.00- 120.00	100.00
12.771	12.743 (0.890)	65	1223926			0.00- 79.19	29.29
75 2-Butanone					CAS #: 78-93-3		
13.822	13.822 (0.963)	72	672492	50.5309	50.531	80.00- 120.00	100.00
13.822	13.794 (0.963)	43	5165214			706.01- 806.01	768.07
13.822	13.794 (0.963)	57	382526			11.32- 111.32	56.88
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.877	13.849 (0.967)	61	2997587	48.6160	48.616	80.00- 120.00	100.00
13.877	13.849 (0.967)	96	1398210			0.00- 95.86	46.64
13.877	13.849 (0.967)	98	870442			0.00- 79.05	29.04
80 Tetrahydrofuran					CAS #: 109-99-9		
14.320	14.319 (0.998)	42	2680263	51.5908	51.591	80.00- 120.00	100.00
14.320	14.319 (0.998)	71	621200			0.00- 72.69	23.18
14.320	14.319 (0.998)	72	660842			0.00- 75.11	24.66
82 Chloroform					CAS #: 67-66-3		
14.403	14.402 (1.004)	83	2861099	50.3107	50.311	80.00- 120.00	100.00
14.403	14.402 (1.004)	85	1802617			12.95- 112.95	63.00
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.790	14.762 (1.031)	97	3045762	49.6382	49.638	80.00- 120.00	100.00
14.762	14.762 (1.029)	99	1905848			13.95- 113.95	62.57
85 Cyclohexane					CAS #: 110-82-7		
14.790	14.789 (1.031)	84	1547650	50.4253	50.425	80.00- 120.00	100.00
14.790	14.762 (1.031)	56	3459353			166.83- 266.83	223.52
14.790	14.762 (1.031)	41	2057323			82.33- 182.33	132.93
87 Carbon Tetrachloride					CAS #: 56-23-5		
15.038	15.038 (1.048)	119	2898629	47.1931	47.193	80.00- 120.00	100.00
15.038	15.038 (1.048)	117	3055108			55.88- 155.88	105.40
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.370	15.370 (1.071)	57	9206532	49.4046	49.404	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	3191031			0.00- 84.79	34.66
15.370	15.370 (1.071)	41	2818861			0.00- 82.30	30.62
91 Benzene					CAS #: 71-43-2		
15.453	15.453 (0.959)	78	3549549	49.0424	49.042	80.00- 120.00	100.00
15.453	15.453 (0.959)	77	780216			0.00- 73.75	21.98
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.564	15.564 (0.966)	62	2929860	46.6003	46.600	80.00- 120.00	100.00
15.564	15.564 (0.966)	64	827453			0.00- 79.85	28.24
94 Heptane					CAS #: 142-82-5		
15.647	15.647 (0.971)	71	1227067	49.5112	49.511	80.00- 120.00	100.00
15.647	15.647 (0.971)	43	3709619			263.55- 363.55	302.32
15.674	15.647 (0.973)	57	1905587			101.27- 201.27	155.30
101 Trichloroethene					CAS #: 79-01-6		
16.587	16.587 (1.029)	95	1575680	47.0921	47.092	80.00- 120.00	100.00
16.587	16.587 (1.029)	130	1392455			36.60- 136.60	88.37
16.587	16.587 (1.029)	97	990580			12.58- 112.58	62.87
104 1,2-Dichloropropane					CAS #: 78-87-5		
17.057	17.057 (1.058)	63	1803499	46.7449	46.745	80.00- 120.00	100.00
17.057	17.057 (1.058)	62	1352672			24.37- 124.37	75.00
17.057	17.057 (1.058)	41	1518485			33.47- 133.47	84.20
106 1,4-Dioxane					CAS #: 123-91-1		
17.195	17.195 (1.067)	88	767812	48.2574	48.257	80.00- 120.00	100.00
17.195	17.195 (1.067)	58	970518			80.04- 180.04	126.40
17.195	17.195 (1.067)	57	347740			0.00- 93.19	45.29
107 Bromodichloromethane					CAS #: 75-27-4		
17.499	17.499 (1.086)	83	2863918	49.2288	49.229	80.00- 120.00	100.00
17.499	17.499 (1.086)	85	1772432			12.05- 112.05	61.89
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.273	18.273 (1.134)	75	2084359	49.2201	49.220	80.00- 120.00	100.00
18.273	18.273 (1.134)	77	629655			0.00- 80.98	30.21
18.273	18.273 (1.134)	39	2062890			47.67- 147.67	98.97
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.467	18.467 (1.146)	58	1905646	52.4744	52.474	80.00- 120.00	100.00
18.467	18.439 (1.146)	43	5401745			234.93- 334.93	283.46
18.467	18.467 (1.146)	85	473909			0.00- 75.34	24.87

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	4171753	49.8822	49.882	80.00- 120.00	100.00
18.826	18.826 (1.168)	92	2572402			11.78- 111.78	61.66
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.269	19.269 (0.904)	75	2311436	46.6528	46.653	80.00- 120.00	100.00
19.269	19.269 (0.904)	77	711025			0.00- 81.68	30.76
19.269	19.241 (0.904)	39	2088858			39.62- 139.62	90.37
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.601	19.600 (0.920)	97	1458254	46.1035	46.104	80.00- 120.00	100.00
19.601	19.600 (0.920)	99	884701			10.45- 110.45	60.67
19.601	19.600 (0.920)	83	1213405			33.66- 133.66	83.21
120 Tetrachloroethene					CAS #: 127-18-4		
19.794	19.766 (0.929)	166	1905597	46.4180	46.418	80.00- 120.00	100.00
19.767	19.766 (0.927)	129	1383412			22.22- 122.22	72.60
19.794	19.766 (0.929)	131	1418697			24.31- 124.31	74.45
121 2-Hexanone					CAS #: 591-78-6		
19.905	19.905 (0.934)	58	2604444	49.5226	49.522	80.00- 120.00	100.00
19.905	19.905 (0.934)	43	5397770			156.80- 256.80	207.25
19.905	19.905 (0.934)	100	264372			0.00- 59.97	10.15
122 Dibromochloromethane					CAS #: 124-48-1		
20.292	20.292 (0.952)	129	2692402	46.0658	46.066	80.00- 120.00	100.00
20.292	20.292 (0.952)	127	2121613			27.29- 127.29	78.80
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.568	20.568 (0.965)	107	2269399	44.5613	44.561	80.00- 120.00	100.00
20.568	20.568 (0.965)	109	2127381			42.37- 142.37	93.74
127 Chlorobenzene					CAS #: 108-90-7		
21.370	21.342 (1.003)	112	3400127	43.6953	43.695	80.00- 120.00	100.00
21.343	21.342 (1.001)	114	1078232			0.00- 81.47	31.71
21.343	21.342 (1.001)	77	2140090			11.38- 111.38	62.94
128 Ethyl Benzene					CAS #: 100-41-4		
21.453	21.425 (1.006)	106	1642572	45.2626	45.263	80.00- 120.00	100.00
21.425	21.425 (1.005)	91	5849261			312.17- 412.17	356.10
129 m,p-Xylene					CAS #: 108-38-3		
21.647	21.619 (1.016)	106	2058525	43.5324	43.532	80.00- 120.00	100.00
21.647	21.619 (1.016)	91	4733828			179.26- 279.26	229.96
130 o-Xylene					CAS #: 95-47-6		
22.338	22.338 (1.048)	106	1967723	46.4857	46.486	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
22.338	22.338 (1.048)	91	4741351			190.55- 290.55	240.96
131 Styrene					CAS #: 100-42-5		
22.366	22.365 (1.049)	104	3245247	45.1029	45.103	80.00- 120.00	100.00
22.366	22.365 (1.049)	78	1951544			10.26- 110.26	60.14
133 Bromoform					CAS #: 75-25-2		
22.780	22.780 (1.069)	173	2663709	45.7597	45.760	80.00- 120.00	100.00
22.780	22.780 (1.069)	171	1384102			1.91- 101.91	51.96
134 Cumene					CAS #: 98-82-8		
22.919	22.918 (1.075)	105	5839907	44.5437	44.544	80.00- 120.00	100.00
22.919	22.918 (1.075)	120	1590116			0.00- 77.67	27.23
22.891	22.891 (1.074)	51	1182212			0.00- 71.10	20.24
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.499	23.499 (1.102)	83	3391699	42.0484	42.048	80.00- 120.00	100.00
23.499	23.499 (1.102)	85	2123569			12.88- 112.88	62.61
142 Propylbenzene					CAS #: 103-65-1		
23.582	23.582 (1.106)	91	8124350	43.8790	43.879	80.00- 120.00	100.00
23.582	23.582 (1.106)	120	1694796			0.00- 71.33	20.86
23.582	23.582 (1.106)	105	275460			0.00- 53.45	3.39
145 4-Ethyltoluene					CAS #: 622-96-8		
23.776	23.776 (1.115)	105	6582771	42.3155	42.315	80.00- 120.00	100.00
23.776	23.776 (1.115)	120	2174882			0.00- 82.84	33.04
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.859	23.858 (1.119)	105	5028843	40.5944	40.594	80.00- 120.00	100.00
23.859	23.858 (1.119)	120	2532086			0.15- 100.15	50.35
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.495	24.494 (1.149)	105	5005088	41.4373	41.437	80.00- 120.00	100.00
24.495	24.494 (1.149)	120	2383909			0.00- 97.16	47.63
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
25.075	25.075 (1.176)	146	3753062	40.3793	40.379	80.00- 120.00	100.00
25.075	25.075 (1.176)	148	2383604			14.61- 114.61	63.51
25.075	25.075 (1.176)	111	1627913			0.00- 93.11	43.38
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
25.241	25.213 (1.184)	146	3869242	40.1237	40.124	80.00- 120.00	100.00
25.241	25.241 (1.184)	148	2417897			13.36- 113.36	62.49
25.213	25.213 (1.183)	111	1579971			0.00- 92.11	40.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
25.435	25.435 (1.193)	91	6184067	44.3105	44.310	80.00- 120.00	100.00
25.435	25.435 (1.193)	126	1097601			0.00- 68.07	17.75
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.877	25.877 (1.214)	146	3691147	39.2083	39.208	80.00- 120.00	100.00
25.877	25.877 (1.214)	148	2344661			14.38- 114.38	63.52
25.877	25.877 (1.214)	111	1658202			0.00- 94.93	44.92
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.753	28.752 (1.349)	180	2237080	43.9432	43.943	80.00- 120.00	100.00
28.753	28.752 (1.349)	182	2100658			44.49- 144.49	93.90
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.946	28.946 (1.358)	225	1903237	42.5598	42.560	80.00- 120.00	100.00
28.946	28.946 (1.358)	223	1222515			13.81- 113.81	64.23
29 Isopentane					CAS #: 78-78-4		
8.347	8.292 (0.582)	43	3166800	46.4226	46.422	80.00- 120.00	100.00
8.320	8.292 (0.580)	57	1978209			11.13- 111.13	62.47
19 Butane					CAS #: 106-97-8		
6.744	6.688 (0.470)	58	458629	48.2871	48.287	80.00- 120.00	100.00
6.744	6.688 (0.470)	43	3979050			840.33- 940.33	867.60
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.863	16.863 (1.175)	83	2014638	51.4996	51.500	80.00- 120.00	100.00
16.863	16.863 (1.175)	98	895194			0.00- 95.26	44.43
16.863	16.863 (1.175)	55	3119160			110.72- 210.72	154.82
167 Naphthalene					CAS #: 91-20-3		
29.306	29.305 (1.375)	128	4520804	46.9552	46.955	80.00- 120.00	100.00
29.306	29.305 (1.375)	127	556843			0.00- 62.45	12.32
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.472	11.444 (0.800)	59	2517642	54.6411	54.641	80.00- 120.00	100.00
11.444	11.444 (0.798)	41	621606			0.00- 80.33	24.69
11.472	11.444 (0.800)	57	259076			0.00- 60.11	10.29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd7.i
Lab File ID: 7072503.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd7.i/7-25jul.b/t14q724a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 25-JUL-2008
Calibration Time: 08:46
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

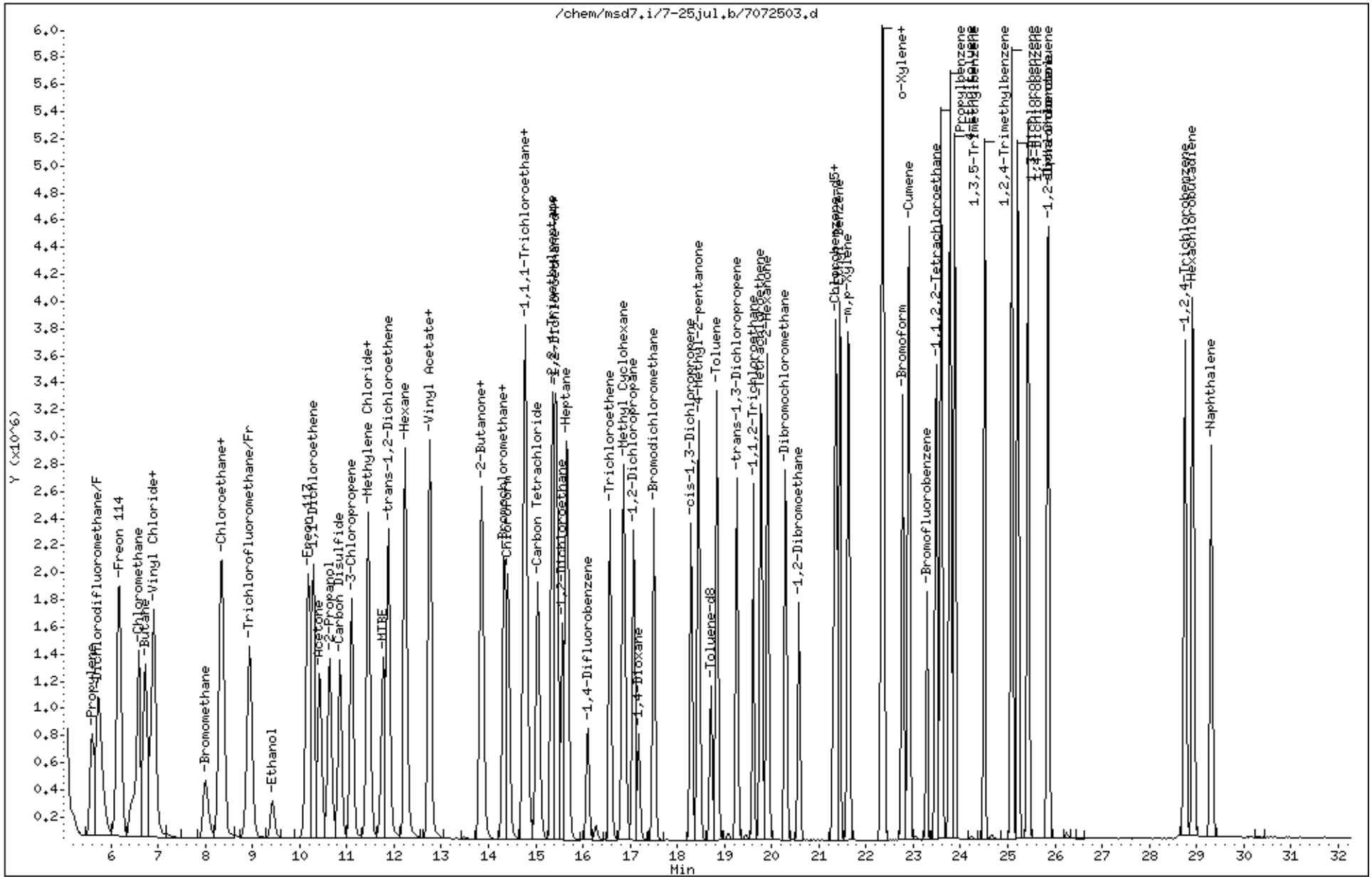
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	379144	227486	530802	369976	-2.42
97 1,4-Difluorobenze	1330831	798499	1863163	1336369	0.42
126 Chlorobenzene-d5	1248438	749063	1747813	1273544	2.01

		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	16.12	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.

Data File: /chem/msd7.i/7-25jul.b/7072503.d
Date : 25-JUL-2008 09:25
Client ID: LCS-1
Sample Info: 50mL#1541-137

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



0166

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

0167

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	37.92
75	30.0 – 60.0% of mass 95	49.23
95	Base peak, 100.00% relative abundance	100 ~~6.45~~ RA 7-25-08
96	5.0 – 9.0% of mass 95	6.45 ~~0.40~~ RA 7-25-08
173	Less than 2.0% of mass 174	(0.40)[1]
174	50.0 – 100% of mass 95	72.73
175	5.0 – 9.0% of mass 174	(7.09)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(98.58)[1]
177	5.0 – 9.0% of mass 176	(6.13)[2]

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

BFB Injection Date: 7-25-08
BFB Injection Time: 0827
BFB File ID: 7072501
Tekmar Purge Flow: 16.7ml/min
Vacuum: 2.8×10^{-5}

IS/S Std.#: 1612-59	Exp. Date: 10-3-08
BCM 379144	
1,4-DFB 1330831	
CB-d5 1248438	

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

Verify 176/174 m/z Ratio: 806144/817792 x 100 = 98.576

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1328028)}{(1330831)} \times \frac{(25)}{(0.96584)} = 25.82969$

File ID:	7072502
Compound:	TO1-28
Initials:	RA

Reported Result 25.830

Method: Tiq724a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	7072501	BFB Tune Check	1476-434	50ng	2ml	1.00	RA	7-25-08	0827	RA/	Apex +/-
2	✓	02	CCV-1 (200ppbv)	1541-210	50ppbv	50ml	1.00	RA	7-25-08	0846	RA/	1 out MTBE +40
3	✓	03	LCS-1 (200ppbv)	1541-137	50ppbv	50ml	1.00	RA	7-25-08	0925	RA/	0 out
4	✓	04	Lab Blank	33668	Humid	200ml	1.00	RA	7-25-08	1011	RA/	
5	✓	05	0807411-31A	NSV-10	Bag	7ml	28.5	RA	7-25-08	1107	RA/	
6	✓	06	0807411-32A	NSV-11	Bag	9ml	22.2	RA		1155		
7	✓	07	0807411-33A	NSV-12	Bag	35ml	5.71	RA		1244		
8	✓	08	-34A	NSV-16	Bag	150ml	1.33	RA		1323	RA/	

RAu
Signature

7-25-08
Date

@ Air Toxics Ltd.

MSD-7

Logbook #: 1706

9	✓	7072509	0807411-35A	NSV-14	Bag	200ml	1.00	RA	7-25-08	1408	RA	SKS		
10	✓	10	-35A	NSV-15	Bag	200ml	1.00	RA	7-25-08	1447	RA	SKS		
11	✓	11	-34AA	NSV-16	Bag	150ml	1.33	RA	7-25-08	1526	RA	SKS		
12	✓	12	-31A	NSV-9	Bag	200ml	1.00	RA	7-25-08	1605	SKS			
13	✓	13	0807414A-04A	33716	8.5"Hg-5psi	200ml	1.87	SKS		1647	SKS			
14	✓	14	05A	27263	10.5"Hg-5psi	200ml	2.06	SKS		1726	SKS			
15	✓	15	0807300-04A	33543	9.5"Hg-5psi	200ml	1.96	SKS		1805	SKS			
16	✓	16	02A	34736	10.0"Hg-5psi	200ml	2.01	SKS		1853	SKS			
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														

7/25/08

Comments:

Signature

7/25/08
Date

Air Toxics Ltd.

Data file : /chem/msd7.i/7-24jul.b/7072405.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 24-JUL-2008 10:45
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/7-24jul.b/bfb105.m
Meth Date : 24-Jul-2008 10:37 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.148	8.232	-0.084	95	1101312			100.00- 100.00	100.00
8.148	8.232	-0.084	50	430784			15.00- 40.00	39.12
8.148	8.232	-0.084	75	577408			30.00- 60.00	52.43
8.148	8.232	-0.084	96	73864			5.00- 9.00	6.71
8.148	8.232	-0.084	173	4620			0.00- 2.00	0.53
8.148	8.232	-0.084	174	874752			50.00- 100.00	79.43
8.148	8.232	-0.084	175	63344			5.00- 9.00	7.24
8.148	8.232	-0.084	176	848576			95.00- 101.00	97.01
8.148	8.232	-0.084	177	55032			5.00- 9.00	6.49

Data File: /chem/msd7.i/7-24jul.b/7072405.d

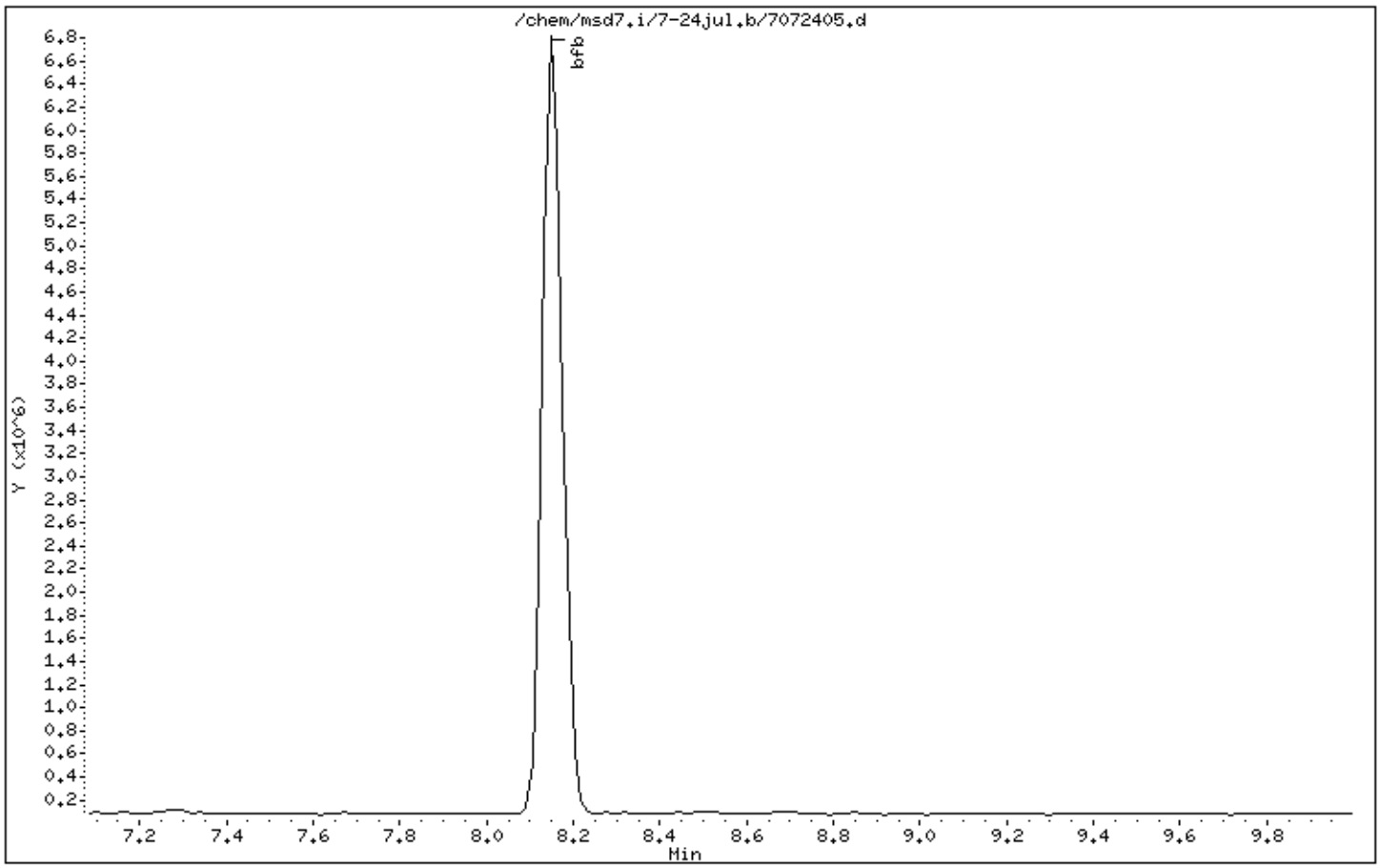
Date : 24-JUL-2008 10:45

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/7-24jul.b/7072405.d

Date : 24-JUL-2008 10:45

Client ID: BFB

Instrument: msd7.i

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

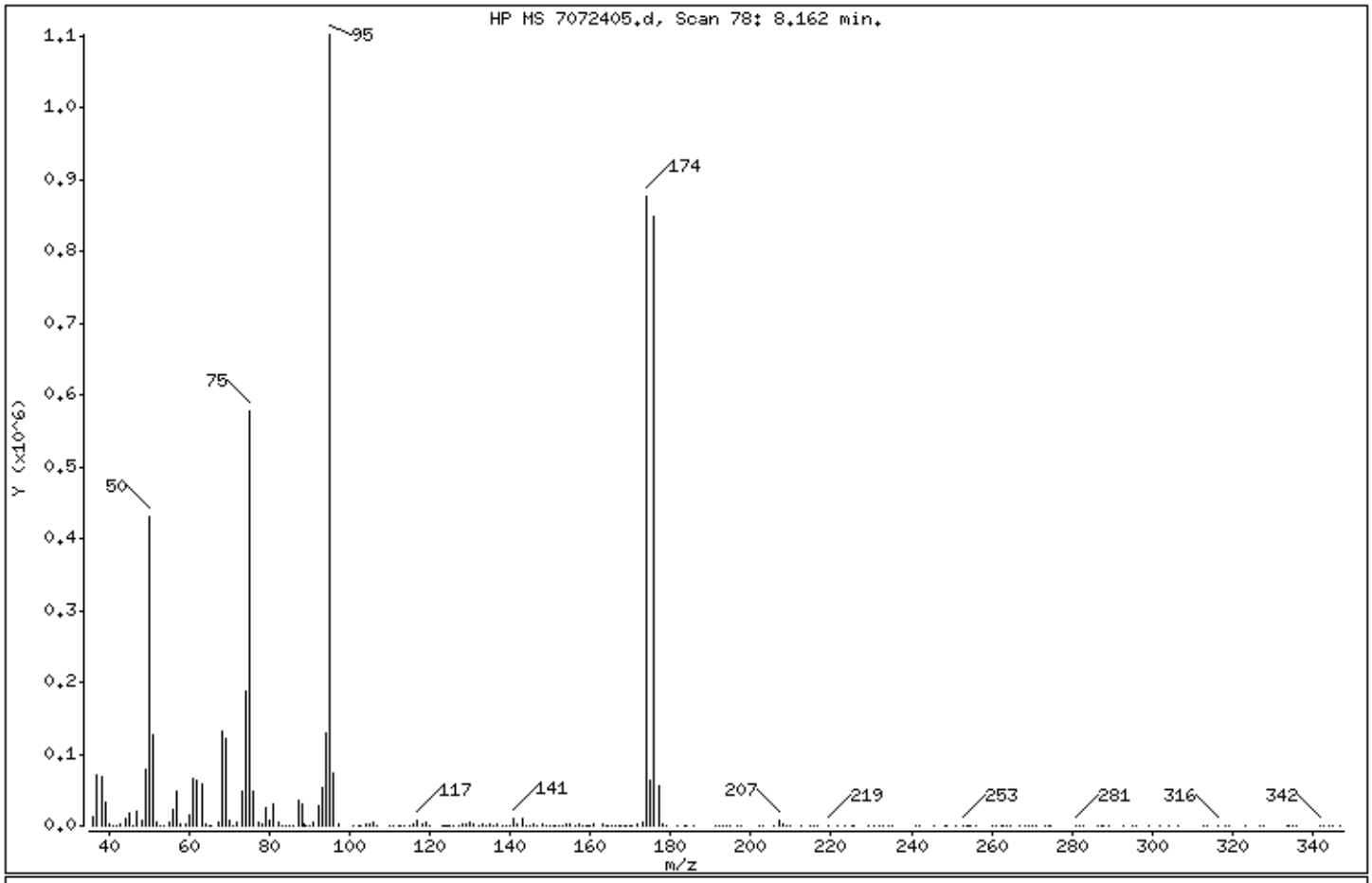
Volume Injected (uL): 2.0

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	39.12
75	30.00 - 60.00% of mass 95	52.43
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.42 (0.53)
174	50.00 - 100.00% of mass 95	79.43
175	5.00 - 9.00% of mass 174	5.75 (7.24)
176	95.00 - 101.00% of mass 174	77.05 (97.01)
177	5.00 - 9.00% of mass 176	5.00 (6.49)

Date : 24-JUL-2008 10:45

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: 7072405.d
Spectrum: HP MS 7072405.d, Scan 78: 8.162 min.
Location of Maximum: 95.00
Number of points: 233

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	13227	94.00	128240	157.00	2328	241.20	257
37.00	71528	95.00	1101312	158.00	567	242.00	252
38.00	69448	96.00	73864	158.80	1136	245.50	206
39.00	32928	97.00	2606	159.60	258	248.30	168
40.00	3154	100.90	188	160.00	306	249.00	364
41.00	961	102.00	211	160.90	1450	250.90	364
41.90	799	102.80	686	162.90	1313	252.90	902
42.90	1643	103.90	3642	163.80	186	253.70	151
44.00	10640	105.00	2384	164.30	326	254.30	169
45.00	17640	105.90	4342	165.10	481	254.90	253
46.00	1060	106.90	790	166.30	457	255.90	236
47.00	20224	110.00	561	166.90	431	260.20	419
48.00	8771	110.90	559	167.60	240	261.10	263
49.00	79680	112.10	301	168.60	501	262.30	163
50.00	430784	112.70	852	169.10	851	263.10	231
51.00	125472	113.60	251	170.00	749	264.00	234
52.00	4557	114.90	705	170.40	684	264.80	505
52.90	526	115.90	3210	171.80	2905	266.80	345
53.50	550	116.90	6450	172.90	4620	268.50	166
55.00	4012	118.00	3729	173.90	874752	269.10	841
56.00	23600	118.90	5389	175.00	63344	270.10	669
57.00	49320	119.80	585	175.90	848576	271.20	453
57.90	2049	122.90	430	177.00	55032	273.30	180
59.00	1300	123.70	338	178.00	2047	274.20	163
60.00	14900	124.10	649	179.00	177	274.90	168
61.00	65824	124.60	395	181.50	236	281.10	954
62.00	63768	125.00	251	183.60	396	282.10	857
63.00	57872	125.90	689	184.10	329	283.00	877
64.00	3316	127.10	438	185.80	189	286.30	150
65.00	589	127.90	3400	191.20	909	287.50	288
65.50	776	129.10	1782	192.10	572	287.80	305
67.10	3839	129.90	4193	193.00	1089	289.40	279
68.00	132480	130.90	2261	194.10	357	293.00	222
69.00	121832	132.10	328	194.80	378	295.30	523
70.00	8144	133.10	1279	196.60	322	296.10	189

Date : 24-JUL-2008 10:45

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: 7072405.d
Spectrum: HP MS 7072405.d, Scan 78: 8.162 min.
Location of Maximum: 95.00
Number of points: 233

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	631	133.90	635	197.60	212	299.20	206
72.00	5870	135.00	1928	202.00	219	301.90	328
73.00	47952	135.90	405	203.10	152	304.00	157
74.00	186688	136.90	1649	205.80	179	306.30	168
75.00	577408	138.00	267	207.00	7557	312.90	242
76.00	47448	139.00	405	208.00	1853	313.90	162
77.00	5151	139.80	1146	209.00	1257	316.30	556
78.00	2447	140.90	11357	210.00	340	318.30	183
78.90	26400	141.90	1430	212.60	164	319.40	267
80.00	7994	142.90	10736	214.60	159	323.20	164
80.90	29488	143.90	765	215.90	182	326.90	153
82.00	4825	144.90	970	216.70	221	327.80	173
83.00	1085	146.00	1703	219.10	477	333.80	243
84.10	241	146.90	939	221.50	351	334.40	221
85.10	178	148.00	2696	223.20	225	335.00	166
85.90	805	149.10	752	225.10	374	336.00	182
87.00	34888	149.90	917	225.90	160	341.70	359
88.00	29984	150.70	412	229.20	237	342.90	297
88.60	1840	151.30	256	230.80	291	344.30	331
89.10	696	152.10	442	231.90	231	345.10	165
90.10	227	152.90	801	232.10	234	346.80	301
90.90	4259	154.00	1399	232.90	184		
92.00	28496	155.00	1427	234.30	256		
93.00	52152	156.10	742	235.30	205		

Air Toxics Ltd.

Data file : /chem/msd7.i/7-25jul.b/7072501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 25-JUL-2008 08:27
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/7-25jul.b/bfb105.m
Meth Date : 25-Jul-2008 08:19 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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	
8.148	8.232	-0.084	95	1124352			100.00- 100.00	100.00
8.148	8.232	-0.084	50	426368			15.00- 40.00	37.92
8.148	8.232	-0.084	75	553536			30.00- 60.00	49.23
8.148	8.232	-0.084	96	72536			5.00- 9.00	6.45
8.148	8.232	-0.084	173	3287			0.00- 2.00	0.40
8.148	8.232	-0.084	174	817792			50.00- 100.00	72.73
8.148	8.232	-0.084	175	57992			5.00- 9.00	7.09
8.148	8.232	-0.084	176	806144			95.00- 101.00	98.58
8.148	8.232	-0.084	177	49392			5.00- 9.00	6.13

Data File: /chem/msd7.i/7-25jul.b/7072501.d

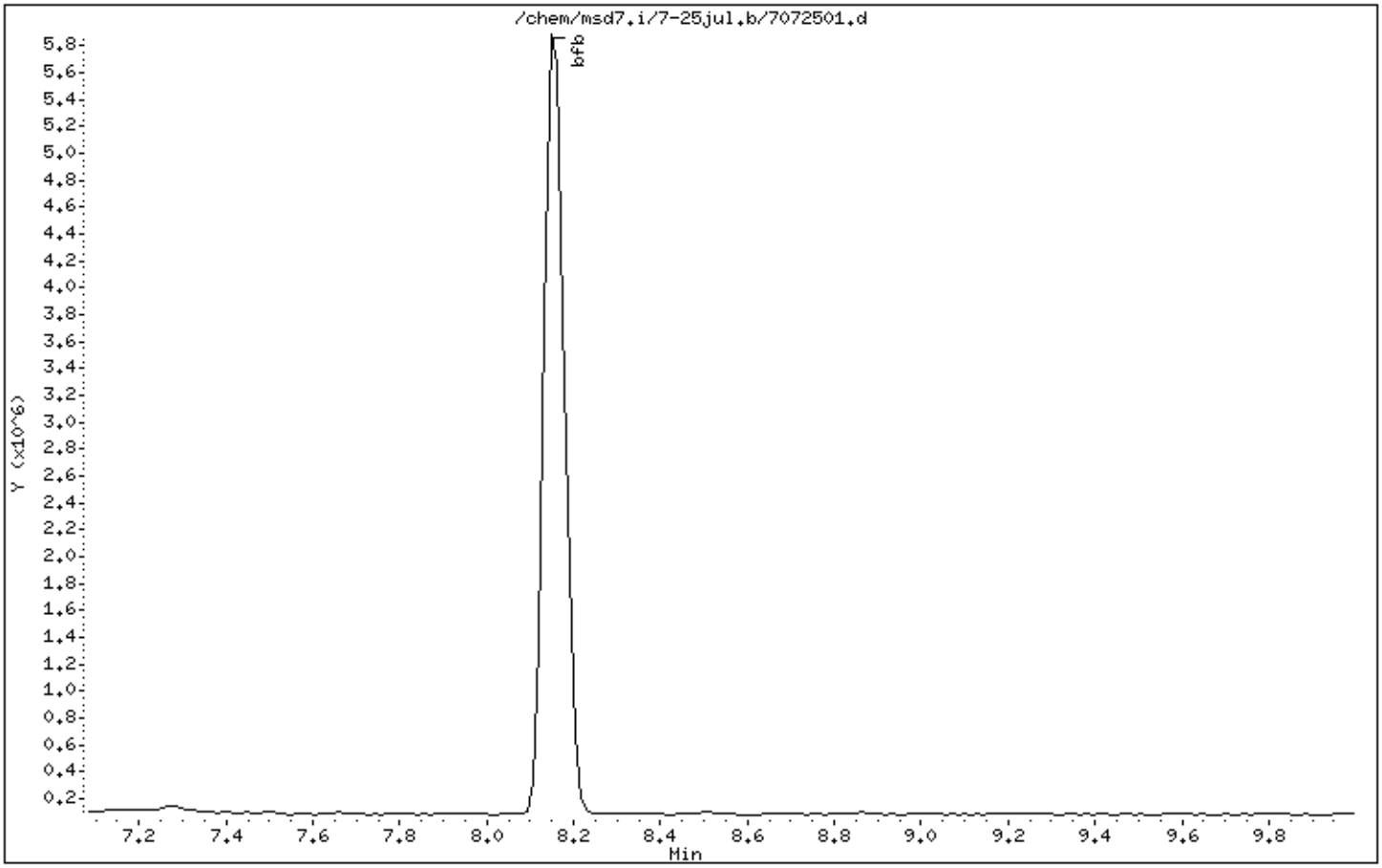
Date : 25-JUL-2008 08:27

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/7-25jul.b/7072501.d

Date : 25-JUL-2008 08:27

Client ID: BFB

Instrument: msd7.i

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

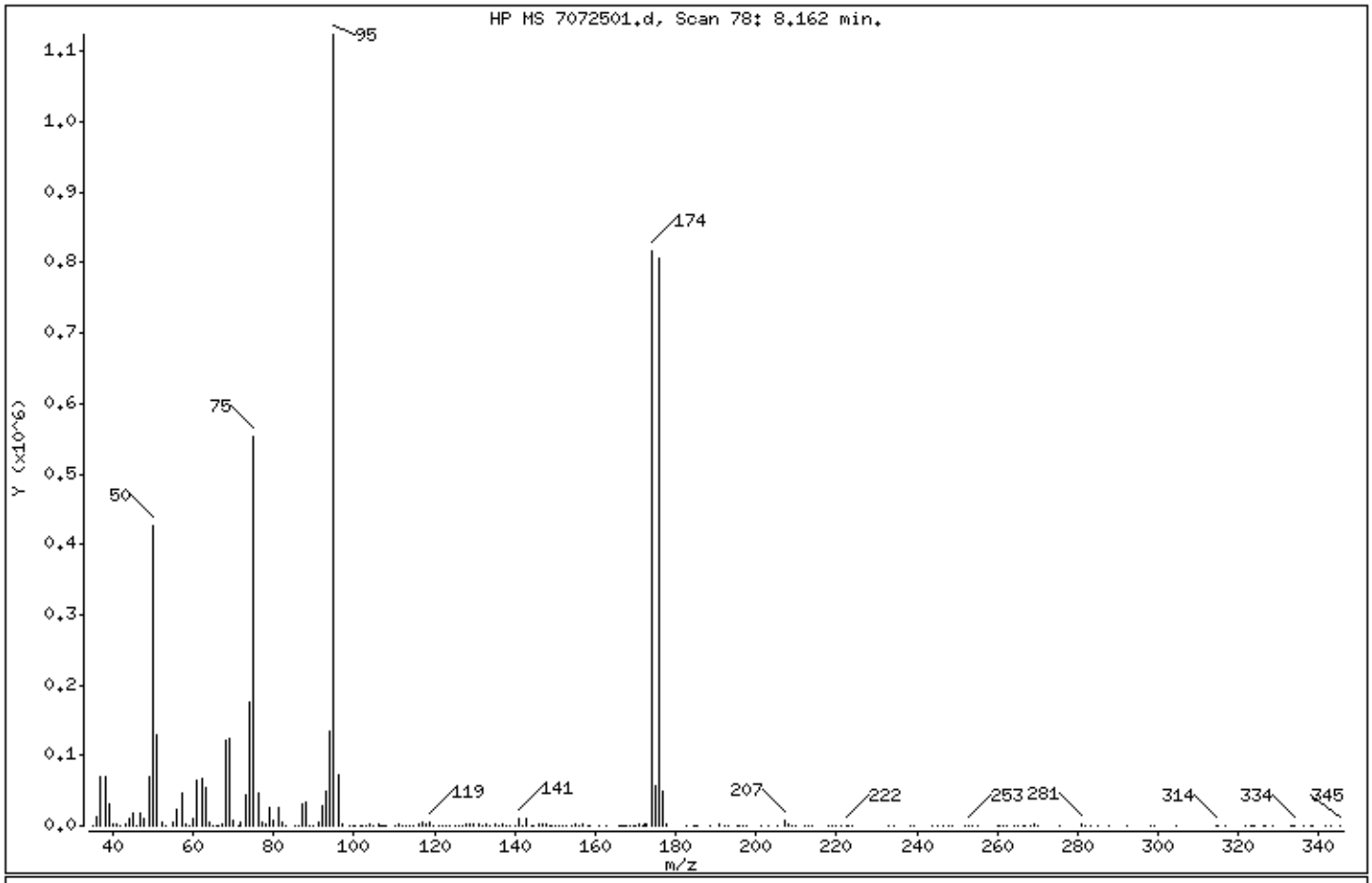
Volume Injected (uL): 2.0

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	37.92
75	30.00 - 60.00% of mass 95	49.23
96	5.00 - 9.00% of mass 95	6.45
173	Less than 2.00% of mass 174	0.29 (0.40)
174	50.00 - 100.00% of mass 95	72.73
175	5.00 - 9.00% of mass 174	5.16 (7.09)
176	95.00 - 101.00% of mass 174	71.70 (98.58)
177	5.00 - 9.00% of mass 176	4.39 (6.13)

Date : 25-JUL-2008 08:27

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: 7072501.d
Spectrum: HP MS 7072501.d, Scan 78: 8.162 min.
Location of Maximum: 95.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	220	94.00	135232	150.10	512	223.90	152
36.00	12215	95.00	1124352	151.10	204	233.10	167
37.00	69152	96.00	72536	152.00	674	234.50	201
38.00	69368	97.00	2771	152.90	992	238.40	224
39.00	31344	99.10	229	154.00	366	239.10	340
40.00	3012	99.90	155	154.90	2215	243.90	309
41.00	1679	100.20	191	156.00	446	245.30	370
42.00	484	101.50	171	156.80	2105	246.70	399
43.00	1456	102.10	478	158.00	479	248.10	290
44.00	9981	103.00	534	158.70	982	248.90	332
45.00	17784	104.00	3429	160.80	1240	252.10	162
46.10	647	104.90	1114	162.90	548	252.90	1041
47.00	18672	105.90	3787	165.80	344	253.60	198
47.90	9623	106.60	436	166.20	351	255.00	476
49.00	69336	107.10	535	167.00	365	260.00	380
50.00	426368	107.70	185	167.40	189	260.70	311
51.00	128704	108.10	158	167.80	190	261.40	157
52.10	6132	110.00	527	168.60	351	262.20	179
53.10	742	111.00	1845	169.70	966	264.20	455
55.00	3912	111.90	1265	170.10	894	265.20	499
56.00	22568	113.10	684	171.10	1568	266.50	302
57.00	47336	114.00	179	171.70	1235	267.10	322
58.00	1759	114.80	1244	172.20	1795	268.30	290
58.90	1071	116.00	3662	172.90	3287	269.00	1321
60.00	11246	116.90	4163	174.00	817792	270.10	651
61.00	64400	117.90	3139	174.90	57992	275.40	154
62.00	66192	118.90	6024	176.00	806144	281.00	2108
63.00	54424	119.90	327	177.00	49392	281.90	475
64.10	4231	121.10	216	177.90	1429	283.10	186
64.70	299	122.00	220	182.50	151	285.10	199
65.70	561	122.70	520	184.60	213	287.80	178
66.20	380	123.90	598	185.10	278	292.40	166
67.00	3445	125.00	811	185.60	172	298.10	360
68.00	120896	126.00	403	188.40	264	298.90	160
69.00	124304	126.80	422	191.00	2234	304.30	196

Date : 25-JUL-2008 08:27

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: 7072501.d
Spectrum: HP MS 7072501.d, Scan 78: 8.162 min.
Location of Maximum: 95.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	6830	127.90	2650	192.10	612	314.60	377
71.30	572	128.90	1451	192.40	535	315.10	171
71.90	4607	129.90	2661	192.90	728	316.60	183
73.00	44344	131.00	1449	195.50	153	321.80	222
74.00	174656	131.80	302	196.00	191	323.00	227
75.00	553536	133.00	2123	196.50	158	323.70	306
76.10	45312	133.90	633	197.50	155	324.10	433
77.10	5395	134.90	1841	201.10	505	326.10	153
78.00	3408	136.00	601	203.00	221	326.90	293
78.90	26264	137.00	1639	205.10	179	328.60	154
80.00	7292	137.90	191	207.00	8354	333.00	168
81.00	26888	138.60	247	208.10	1455	333.50	203
81.90	6105	140.00	664	209.10	1220	334.10	485
83.00	788	140.90	9452	210.00	556	336.40	377
85.30	437	142.00	1157	212.10	257	337.90	219
86.00	813	142.90	9120	213.00	175	338.60	226
87.00	30376	144.00	553	214.10	217	341.60	203
88.00	32528	144.80	702	218.10	156	343.00	424
88.70	822	145.90	1545	219.10	192	345.20	200
89.80	180	147.10	1300	219.80	258		
91.00	3963	147.90	1839	221.00	218		
92.00	29032	148.70	504	222.40	353		
93.00	49144	149.00	498	223.10	282		

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 #: 0807300
# of pages (Including Cover): 1

8/4/2008

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

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

0181

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

Project Info:
P.O. #
Project # 061140-8-1703
Project Name BaySinora 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
01A	DW AMS 3 33543	07/16/08 0545/1345	TO-15 + Naphthalene	-30	-9	
02A	UW AMS 4 34738	07/16/08 0545/1345	TO-15 + Naphthalene	-30	-11	

Relinquished By: (Signature) Date/Time: Thomas R Tart 07/16/08 0545/1345
Received By: (Signature) Date/Time: Monica Gregen AFL 7/17/08 900
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

Notes: used flow controllers included
Initial and final can preassures 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		MC	NA	Good	Yes No (None)	080730

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0807300

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: 07/31/08
Date Completed: 7/30/08
Date Received: 7/17/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 3	Modified TO-15	7/16/2008	9.5 "Hg	$225.00
02A	UW AMS 4	Modified TO-15	7/16/2008	10.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each., Shipment 58431	$100.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 58431	$70.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

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

BILL TO: Ms. 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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

DATA REVIEW CHECKLIST

Work Order #: 0807302

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

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

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

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

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

A/R: 1 out in CCV: MtBE @ 140%

14-day HT

M/Q: _____

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
7/25/08	R: ADBailey 7-30-08	TJS 7-30-08	
C Taylor 7/29/08	T: _____		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable