
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 #: 0708221

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Comments:

Completed by:

Vera Belitsky Vera Belitsky / Document Control 8/28/07

(Signature) (Print Name & Title) (Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0708221

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 Bay Shore OU1
DATE RECEIVED:	08/10/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	08/23/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	UW AMS#1	Modified TO-15	10.5 "Hg
02A	DW AMS#5	Modified TO-15	6.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Fruman DATE: 08/23/07

Laboratory Director

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

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# 0708221

Two 6 Liter Summa Canister samples were received on August 10, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW AMS#1	0708221-01A	8/ 9/2007	8/10/2007	NA	14	8/23/2007	NA	Good
DW AMS#5	0708221-02A	8/ 9/2007	8/10/2007	NA	14	8/23/2007	NA	Good
Lab Blank	0708221-03A	NA	NA	NA	NA	8/22/2007	NA	Good
CCV	0708221-04A	NA	NA	NA	NA	8/22/2007	NA	Good
LCS	0708221-05A	NA	NA	NA	NA	8/22/2007	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS#1

Lab ID#: 0708221-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.0	5.5	3.9	21
m,p-Xylene	1.0	1.4	4.5	6.1
Acetone	4.1	4.4	9.8	10

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS#1

Lab ID#: 0708221-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082225**	**Date of Collection: 8/9/07**	
Dil. Factor:	**2.06**	**Date of Analysis: 8/23/07 01:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Bromomethane	1.0	Not Detected	4.0	Not Detected
Chloroethane	1.0	Not Detected	2.7	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Methylene Chloride	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Toluene	1.0	5.5	3.9	21
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	1.0	1.4	4.5	6.1
o-Xylene	1.0	Not Detected	4.5	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS#1

Lab ID#: 0708221-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082225**	**Date of Collection: 8/9/07**	
Dil. Factor:	**2.06**	**Date of Analysis: 8/23/07 01:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.0	Not Detected	4.2	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Chloromethane	4.1	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Acetone	4.1	4.4	9.8	10
Carbon Disulfide	1.0	Not Detected	3.2	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	Not Detected	3.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
Ethanol	4.1	Not Detected	7.8	Not Detected
Methyl tert-butyl ether	1.0	Not Detected	3.7	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Naphthalene	4.1	Not Detected	22	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	86	70-130

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AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082225.d
Lab Smp Id: 0708221-01A
Inj Date : 23-AUG-2007 01:06
Operator : kr Inst ID: msdt.i
Smp Info : 200mL #9913
Misc Info : 10.5"Hg-5psi
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 23-Aug-2007 09:39 ctaylor Quant Type: ISTD
Cal Date : 22-AUG-2007 13:48 Cal File: t082211.d
Als bottle: 1
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	202467	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	162634			26.10- 126.10	80.33
13.886	13.886 (1.000)	49	399609			227.80- 327.80	197.37
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.655	15.628 (1.000)	114	794556	25.0000		80.00- 120.00	100.00
15.655	15.628 (1.000)	88	126903			0.00- 65.83	15.97
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	702171	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	431540			12.31- 112.31	61.46
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	364036	23.5730	23.573	80.00- 120.00	100.00
14.964	14.964 (1.078)	67	181643			2.98- 102.98	49.90
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.164)	98	761416	24.6055	24.606	80.00- 120.00	100.00
18.227	18.227 (1.164)	70	96729			0.00- 62.07	12.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.164)	100	529114			18.35- 118.35	69.49
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	279420	21.4644	21.464	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	408897			93.21- 193.21	146.34
22.789	22.789 (1.096)	176	274770			45.69- 145.69	98.34
45 Acetone					CAS #: 67-64-1		
10.236	10.208 (0.737)	58	21263	2.16027	4.450	80.00- 120.00	100.00
10.236	10.208 (0.737)	43	89989			306.72- 406.72	423.22
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.171)	91	109044	2.66258	5.485	80.00- 120.00	100.00
18.337	18.337 (1.171)	92	67503			13.41- 113.41	61.90
129 m,p-Xylene					CAS #: 108-38-3		
21.158	21.157 (1.017)	106	14718	0.68018	1.401	80.00- 120.00	100.00
21.158	21.157 (1.017)	91	30364			151.06- 251.06	206.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082225.d
Lab Smp Id: 0708221-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 10.5"Hg-5psi

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	202467	-3.68
97 1,4-Difluorobenze	855220	513132	1197308	794556	-7.09
126 Chlorobenzene-d5	776619	465971	1087267	702171	-9.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.66	0.18
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 22Aug2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0708221-01A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 10.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	23.573	94.29	70-130
$ 113 Toluene-d8	25.000	24.606	98.42	70-130
$ 137 Bromofluorobenzene	25.000	21.464	85.86	70-130

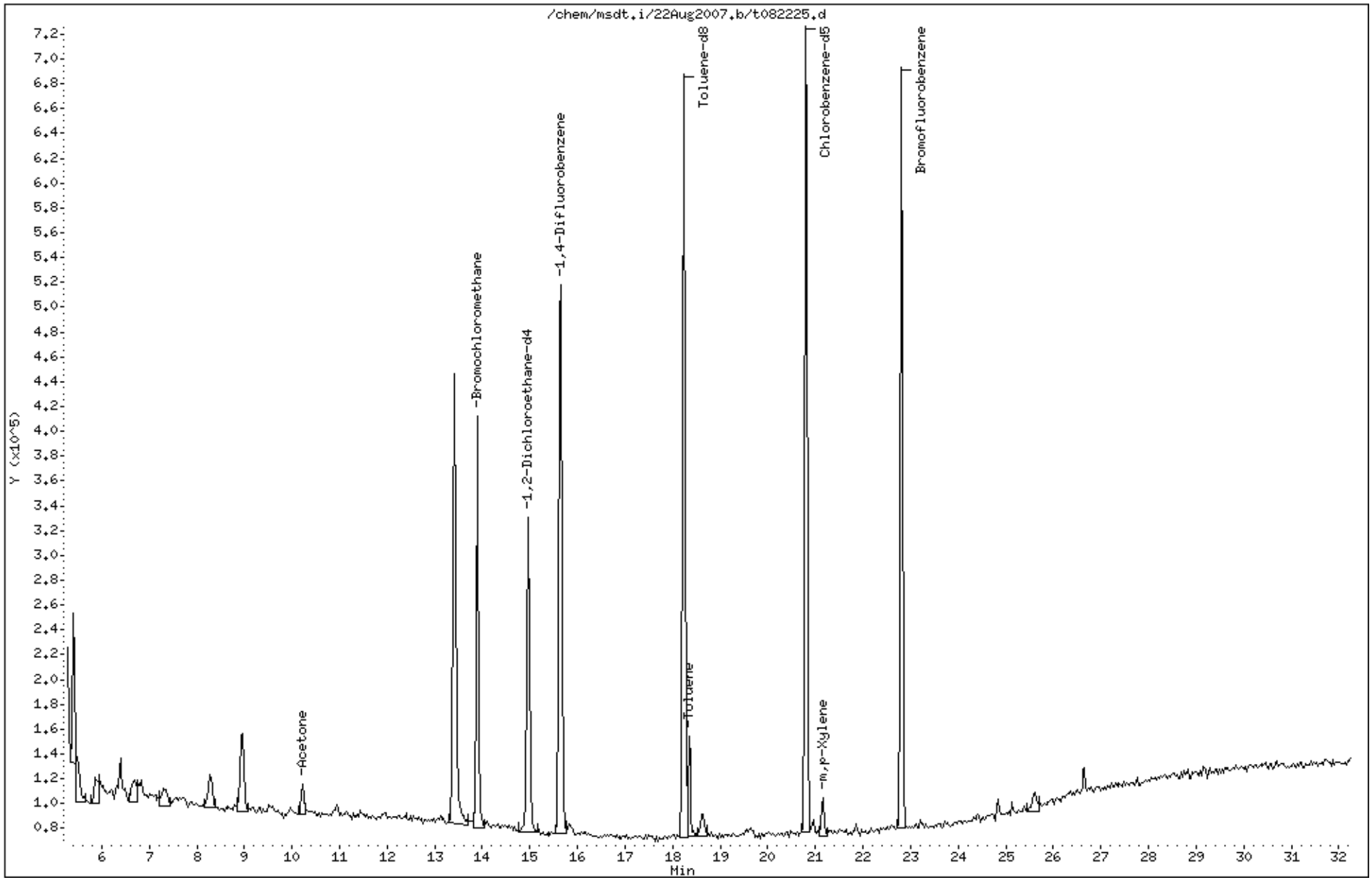
0013

Data File: /chem/msdt.i/22Aug2007.b/t082225.d
Date : 23-AUG-2007 01:06
Client ID:
Sample Info: 200mL #9913

Instrument: msdt.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msdt.i/22Aug2007.b/t082225.d

Date : 23-AUG-2007 01:06

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9913

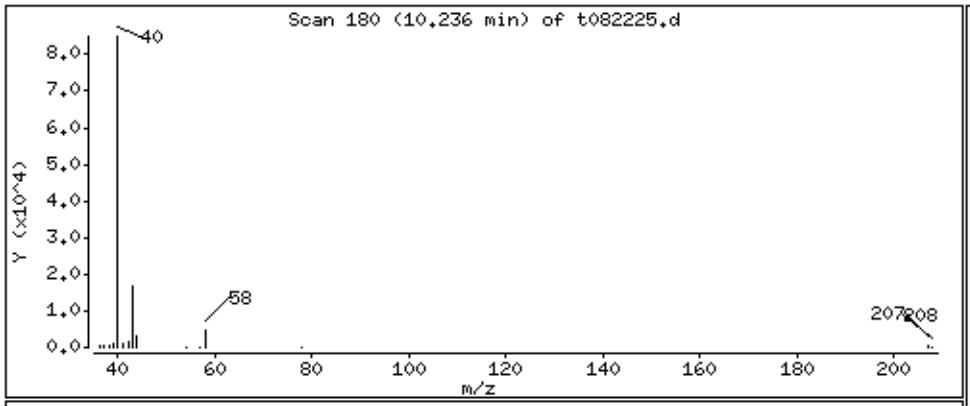
Operator: kr

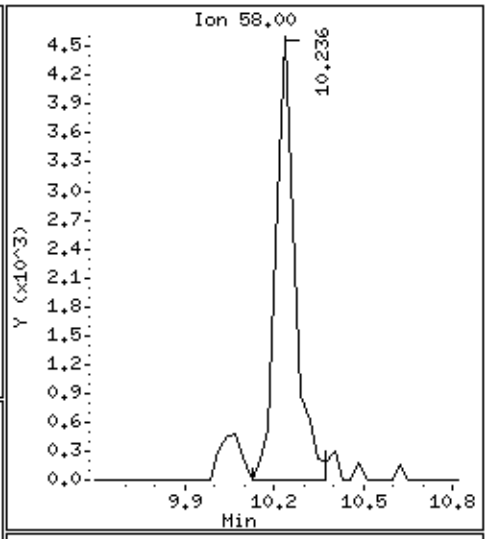
Column phase: RTx-624

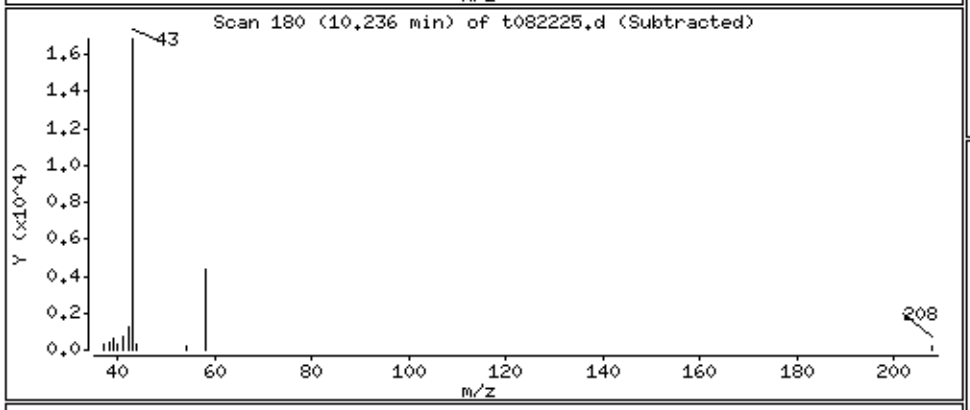
Column diameter: 0.53

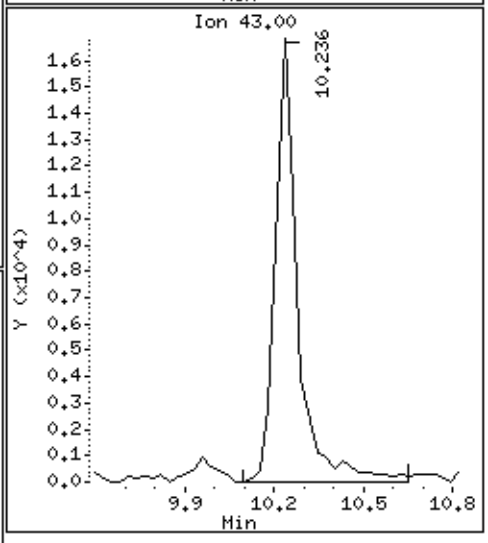
45 Acetone

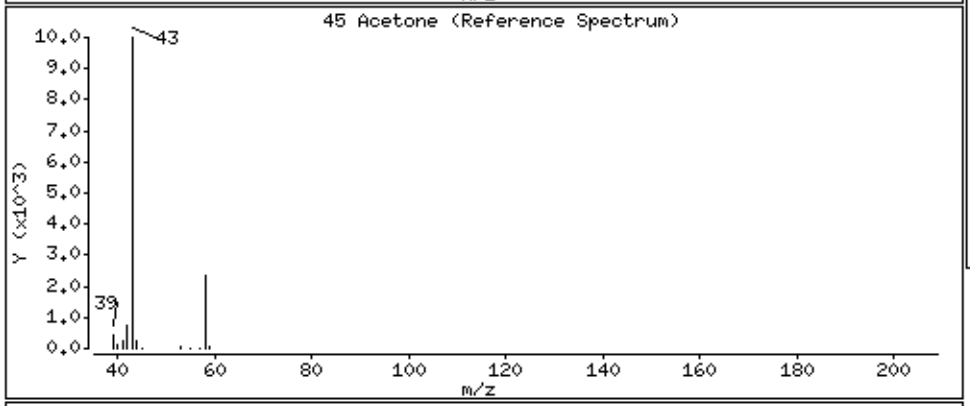
Concentration: 4.450 PPBV

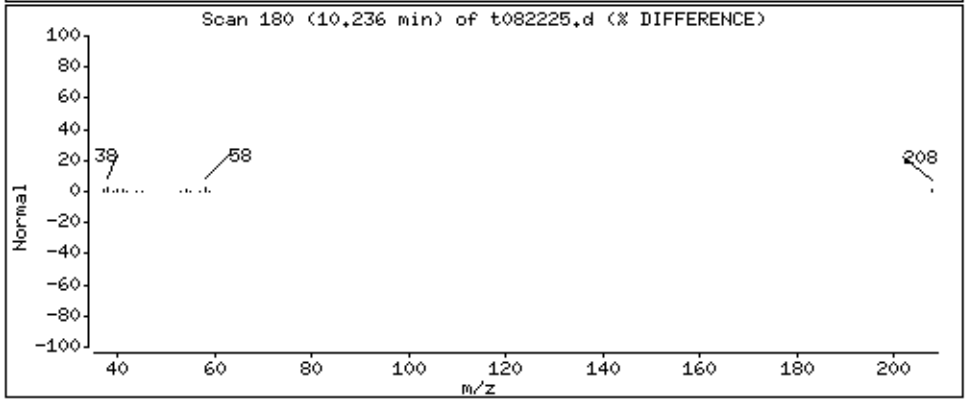












Data File: /chem/msdt.i/22Aug2007.b/t082225.d

Date : 23-AUG-2007 01:06

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9913

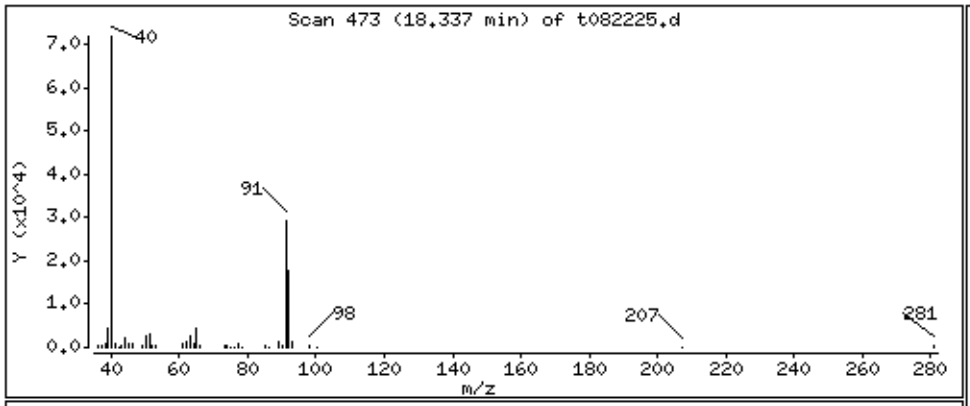
Operator: kr

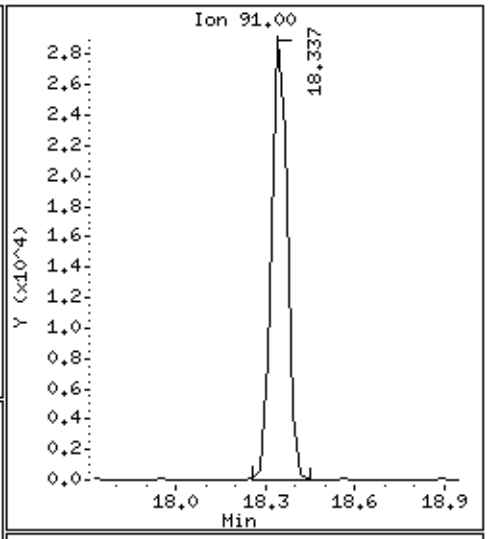
Column phase: RTx-624

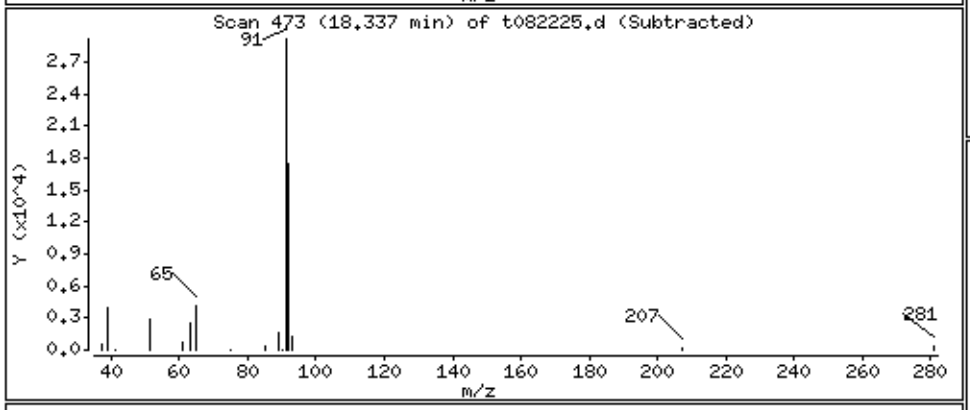
Column diameter: 0.53

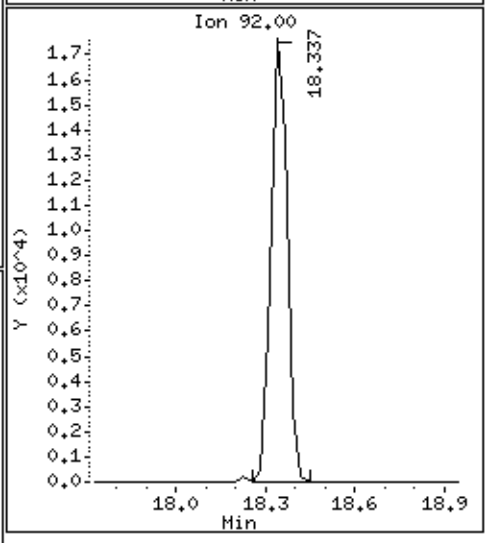
114 Toluene

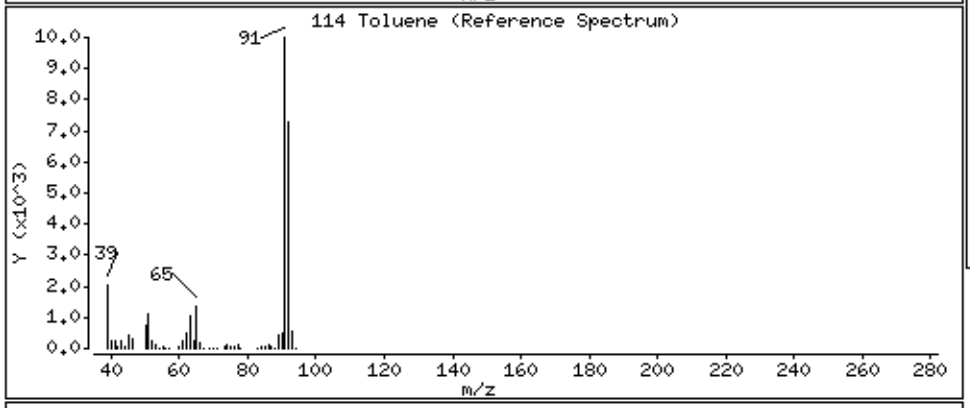
Concentration: 5.485 PPBV

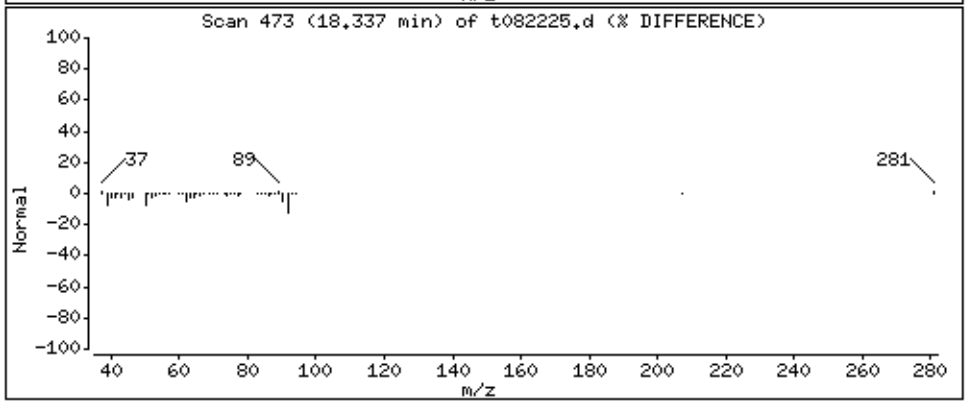












Data File: /chem/msdt.i/22Aug2007.b/t082225.d

Date : 23-AUG-2007 01:06

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9913

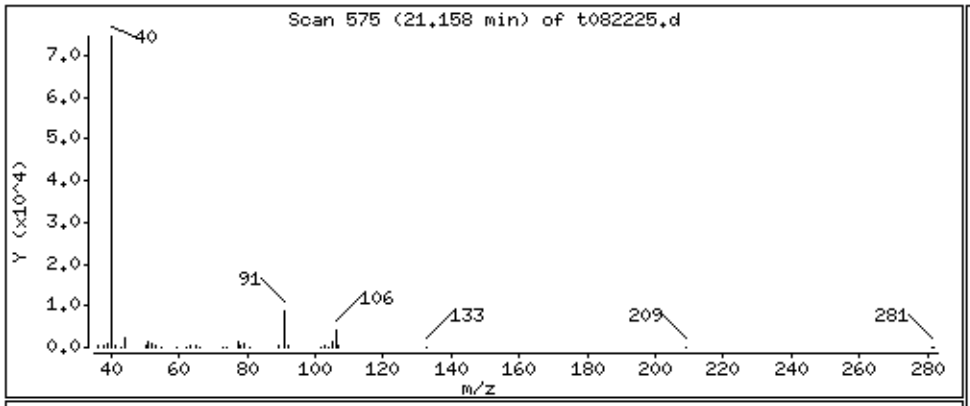
Operator: kr

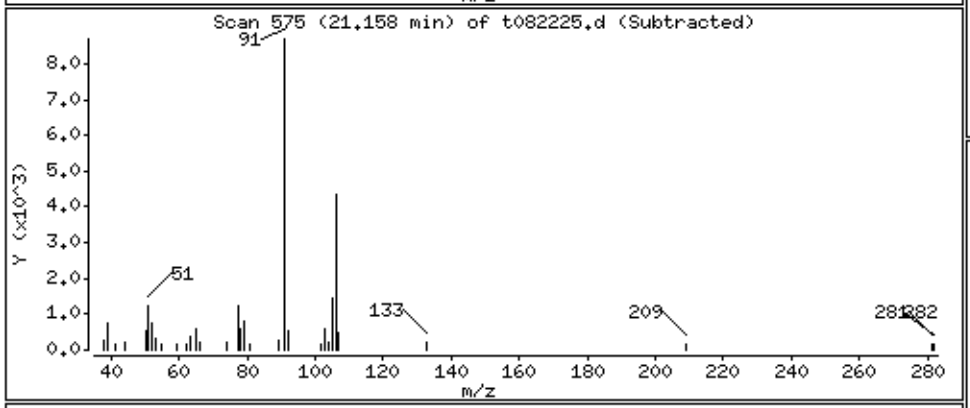
Column phase: RTx-624

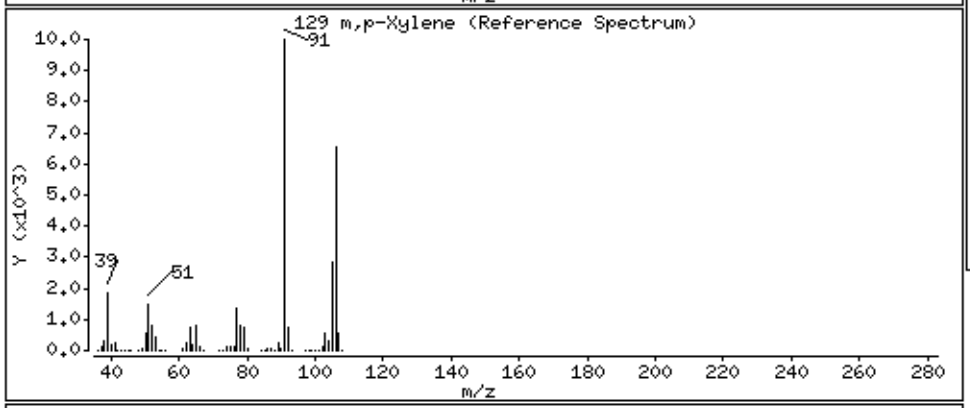
Column diameter: 0.53

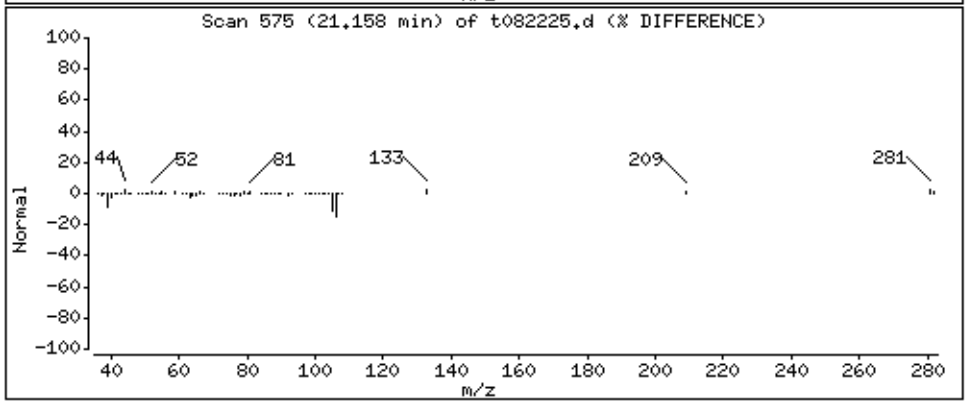
129 m,p-Xylene

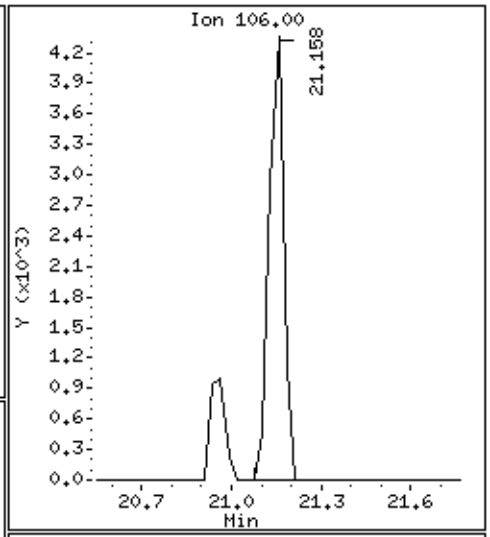
Concentration: 1.401 PPBV

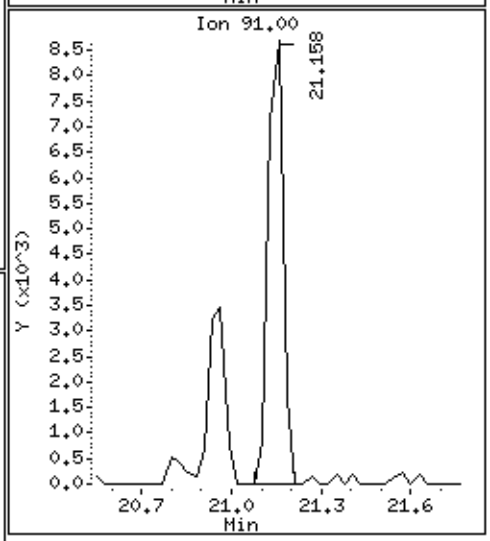












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS#5

Lab ID#: 0708221-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.86	2.0	3.2	7.5
Ethyl Benzene	0.86	1.3	3.7	5.8
m,p-Xylene	0.86	21	3.7	90
o-Xylene	0.86	7.2	3.7	31
Acetone	3.4	9.2	8.1	22
2-Butanone (Methyl Ethyl Ketone)	0.86	3.6	2.5	10
4-Methyl-2-pentanone	0.86	2.9	3.5	12

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS#5

Lab ID#: 0708221-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082227**	**Date of Collection:**	**8/9/07**
Dil. Factor:	**1.71**	**Date of Analysis:**	**8/23/07 02:26 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	2.0	3.2	7.5
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	1.3	3.7	5.8
m,p-Xylene	0.86	21	3.7	90
o-Xylene	0.86	7.2	3.7	31
Styrene	0.86	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS#5

Lab ID#: 0708221-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082227**	**Date of Collection: 8/9/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 8/23/07 02:26 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	9.2	8.1	22
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	3.6	2.5	10
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	2.9	3.5	12
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082227.d
Lab Smp Id: 0708221-02A
Inj Date : 23-AUG-2007 02:26
Operator : kr Inst ID: msdt.i
Smp Info : 200mL #9408
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 23-Aug-2007 09:39 ctaylor Quant Type: ISTD
Cal Date : 22-AUG-2007 13:48 Cal File: t082211.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	202114	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	158792			26.10- 126.10	78.57
13.886	13.886 (1.000)	49	402952			227.80- 327.80	199.37
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.655	15.628 (1.000)	114	782466	25.0000		80.00- 120.00	100.00
15.628	15.628 (1.000)	88	124880			0.00- 65.83	15.96
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.826	20.798 (1.000)	117	689732	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	434684			12.31- 112.31	63.02
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.964	14.964 (1.078)	65	376969	24.4531	24.453	80.00- 120.00	100.00
14.964	14.964 (1.078)	67	178106			2.98- 102.98	47.25
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.227	18.227 (1.164)	98	768194	25.2081	25.208	80.00- 120.00	100.00
18.227	18.227 (1.164)	70	95234			0.00- 62.07	12.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.164)	100	533129			18.35- 118.35	69.40
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.094)	174	304691	23.8277	23.828	80.00- 120.00	100.00
22.789	22.789 (1.094)	95	427293			93.21- 193.21	140.24
22.789	22.789 (1.094)	176	285533			45.69- 145.69	93.71
45 Acetone					CAS #: 67-64-1		
10.236	10.208 (0.737)	58	52873	5.38115	9.202	80.00- 120.00	100.00
10.208	10.208 (0.735)	43	226577			306.72- 406.72	428.53
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	13726	2.10150	3.594	80.00- 120.00	100.00
13.416	13.416 (0.966)	43	78721			501.13- 601.13	573.52
13.416	13.416 (0.966)	57	5713			0.00- 87.31	41.62
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.148)	58	21847	1.71486	2.932	80.00- 120.00	100.00
17.978	17.978 (1.148)	43	61779			230.40- 330.40	282.78
18.006	17.978 (1.150)	85	7811			0.00- 84.16	35.75
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.171)	91	47105	1.16796	1.997	80.00- 120.00	100.00
18.337	18.337 (1.171)	92	29359			13.41- 113.41	62.33
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.007)	106	13865	0.78376	1.340	80.00- 120.00	100.00
20.964	20.964 (1.007)	91	49076			265.67- 365.67	353.96
129 m,p-Xylene					CAS #: 108-38-3		
21.158	21.157 (1.016)	106	258344	12.1544	20.784	80.00- 120.00	100.00
21.158	21.157 (1.016)	91	519393			151.06- 251.06	201.05
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.049)	106	81536	4.21785	7.212	80.00- 120.00	100.00
21.849	21.849 (1.049)	91	174916			160.35- 260.35	214.53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082227.d
Lab Smp Id: 0708221-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 6.5"Hg-5psi

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	202114	-3.85
97 1,4-Difluorobenze	855220	513132	1197308	782466	-8.51
126 Chlorobenzene-d5	776619	465971	1087267	689732	-11.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.66	0.18
126 Chlorobenzene-d5	20.80	20.47	21.13	20.83	0.13

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 22Aug2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0708221-02A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 6.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	24.453	97.81	70-130
$ 113 Toluene-d8	25.000	25.208	100.83	70-130
$ 137 Bromofluorobenzene	25.000	23.828	95.31	70-130

Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Sample Info: 200mL #9408

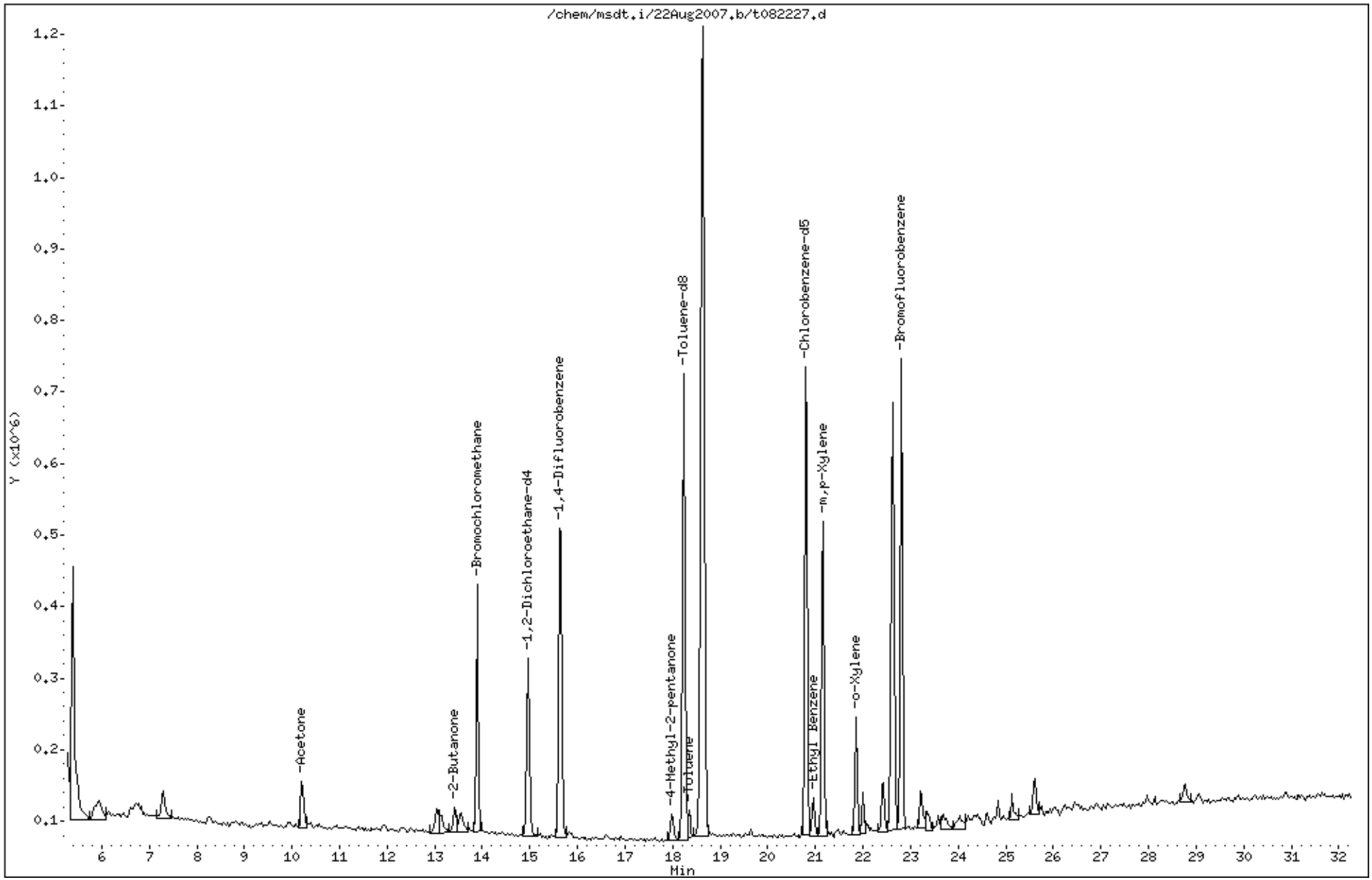
Column phase: RTx-624

Instrument: msdt.i

Operator: kr

Column diameter: 0.53

0024



Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9408

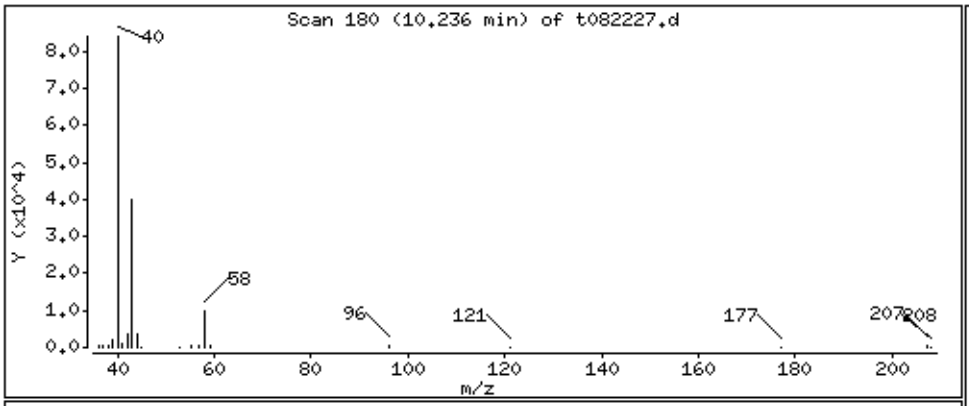
Operator: kr

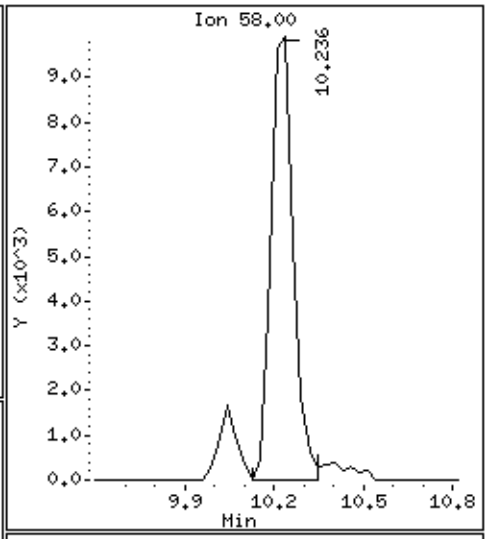
Column phase: RTx-624

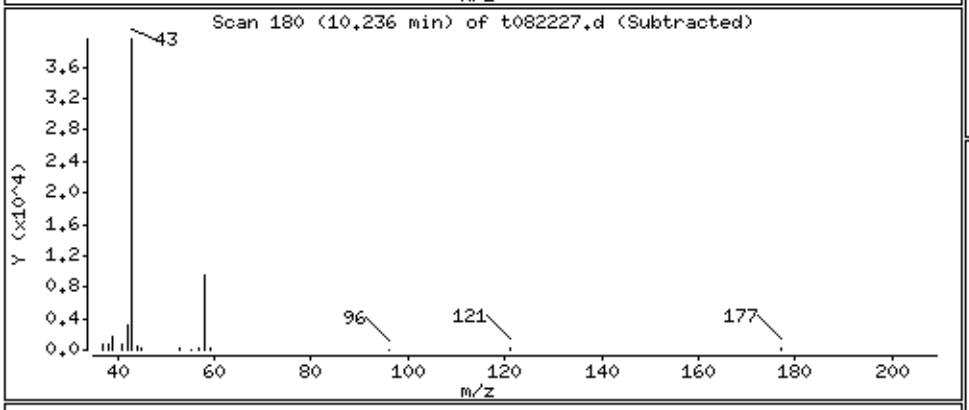
Column diameter: 0.53

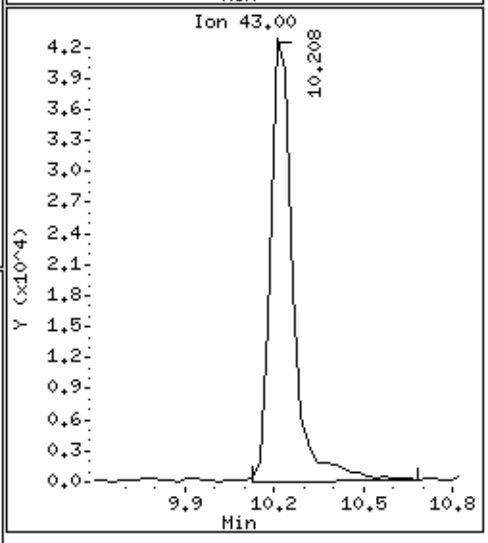
45 Acetone

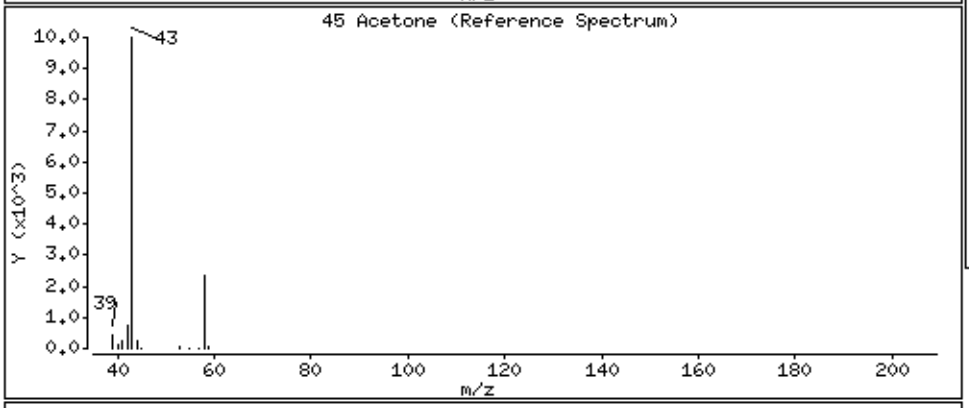
Concentration: 9.202 PPBV

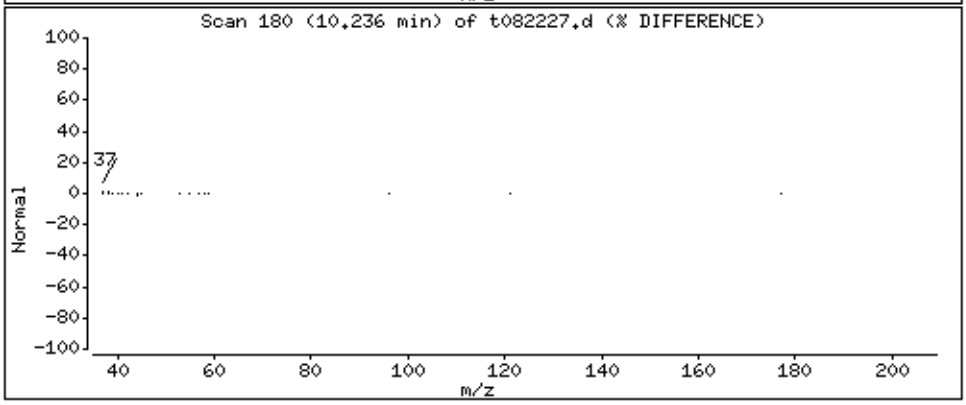












Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9408

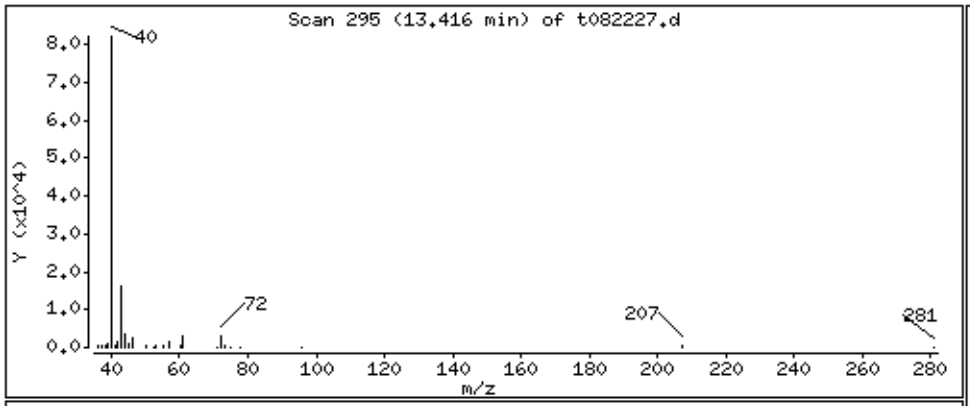
Operator: kr

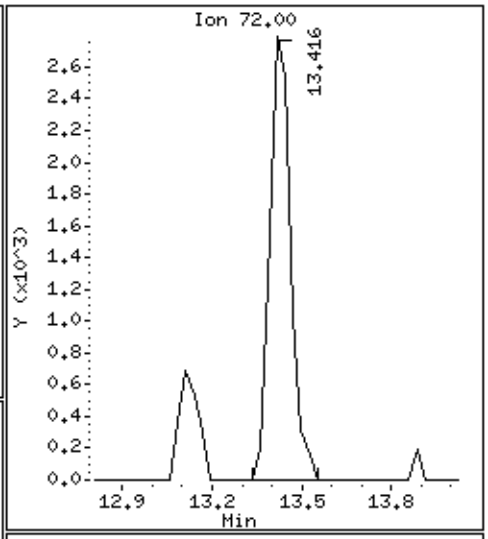
Column phase: RTx-624

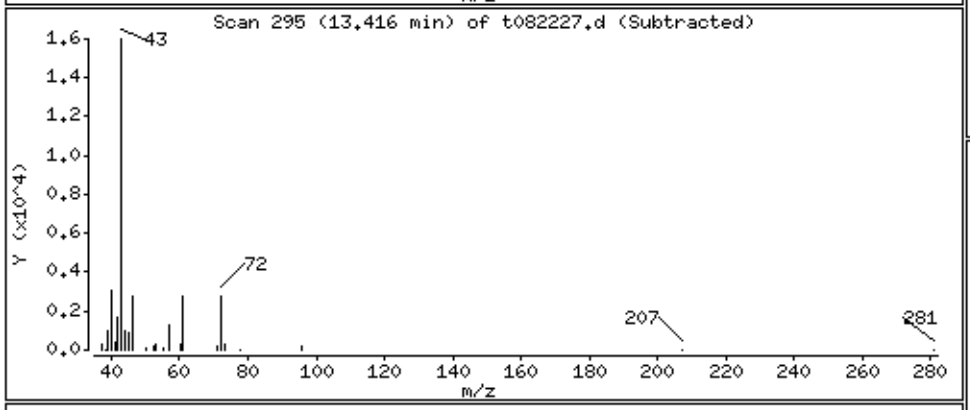
Column diameter: 0.53

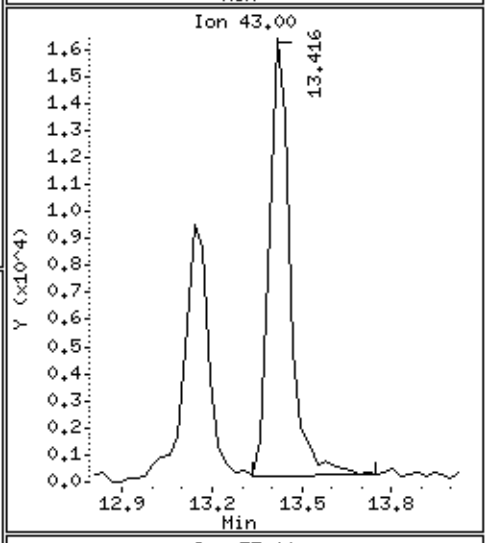
75 2-Butanone

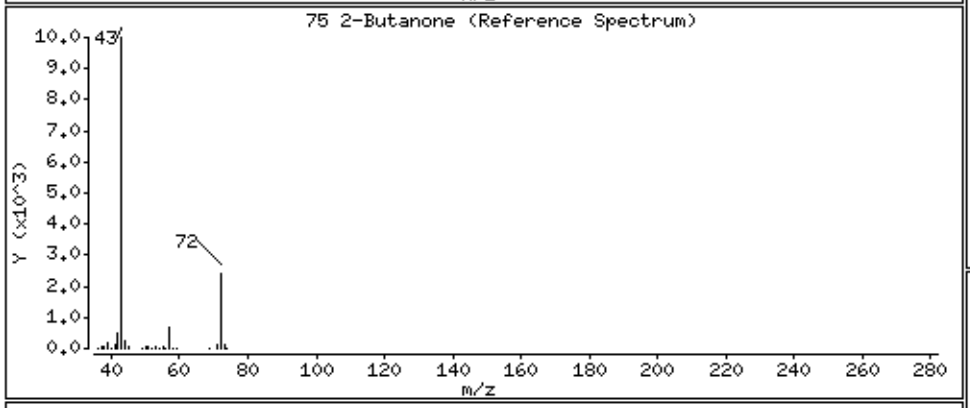
Concentration: 3.594 PPBV

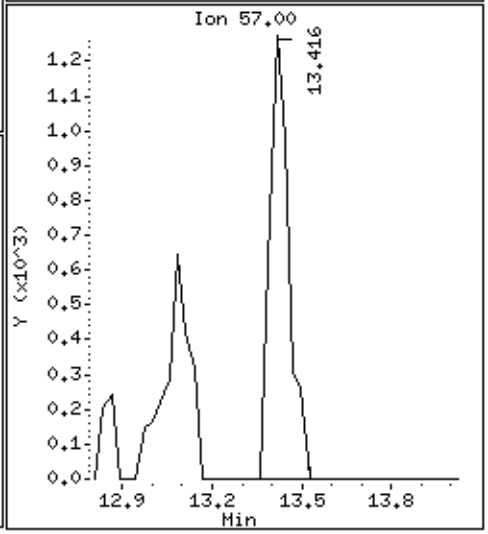


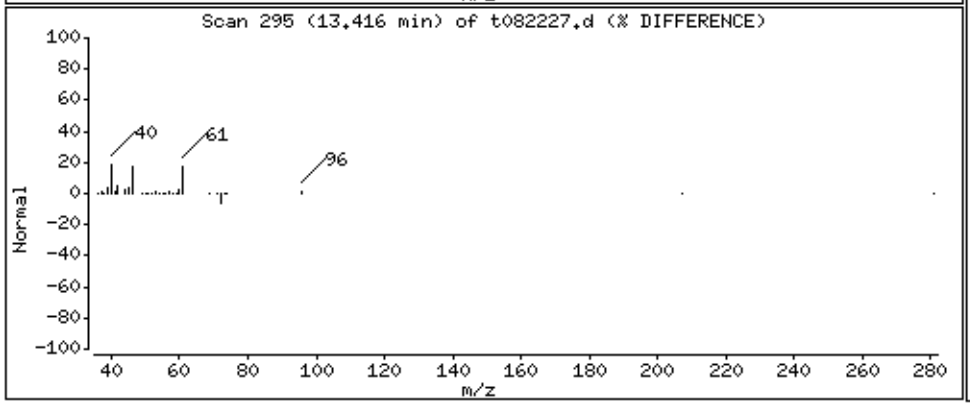












Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9408

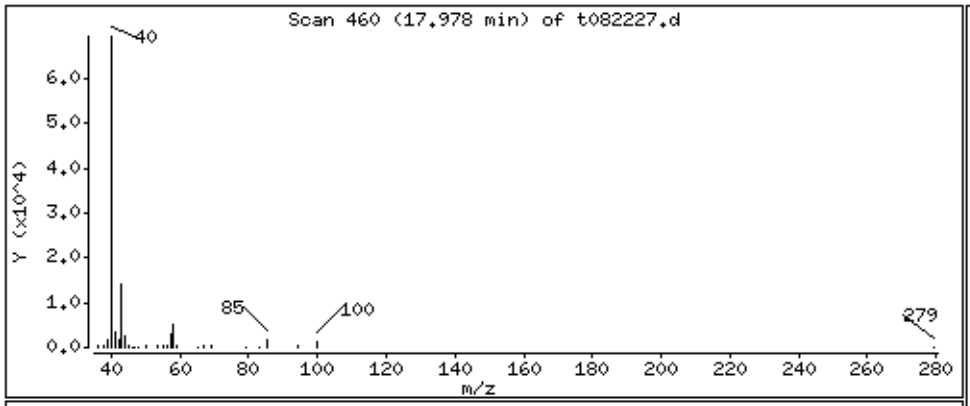
Operator: kr

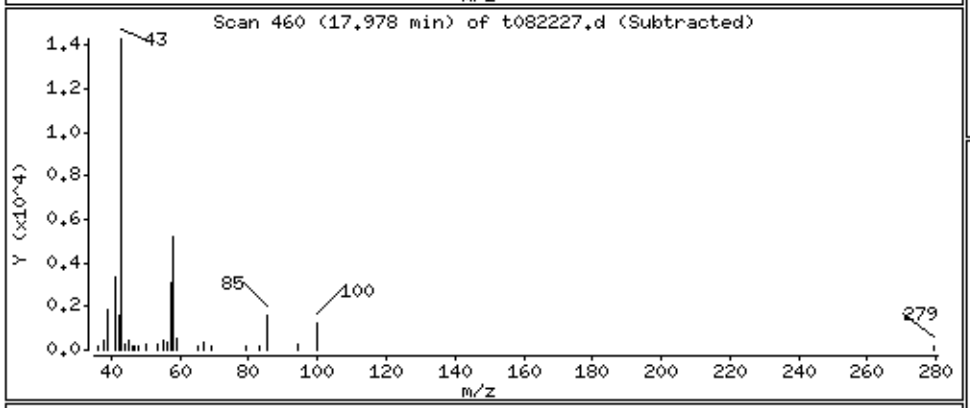
Column phase: RTx-624

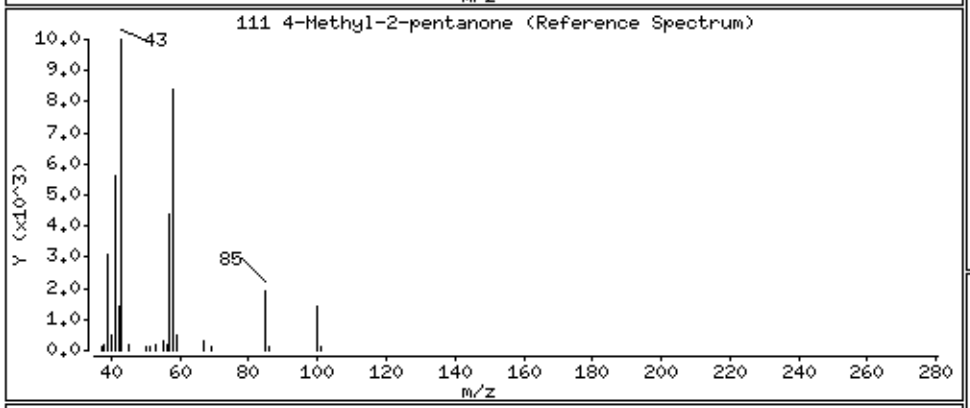
Column diameter: 0.53

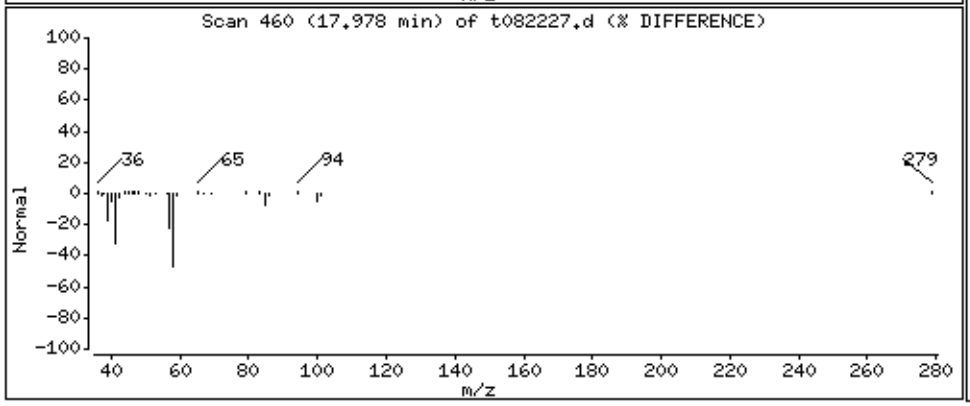
111 4-Methyl-2-pentanone

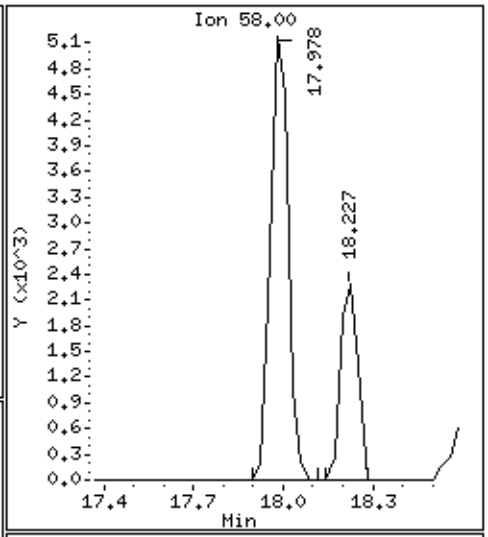
Concentration: 2.932 PPBV

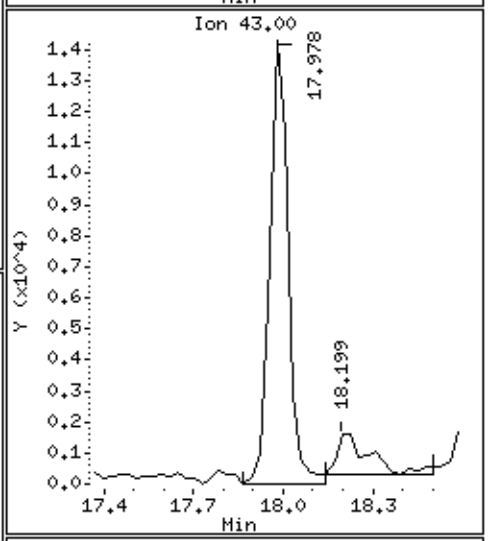


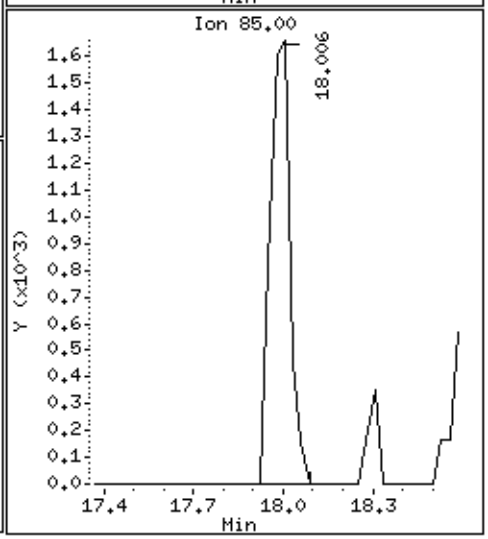












Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9408

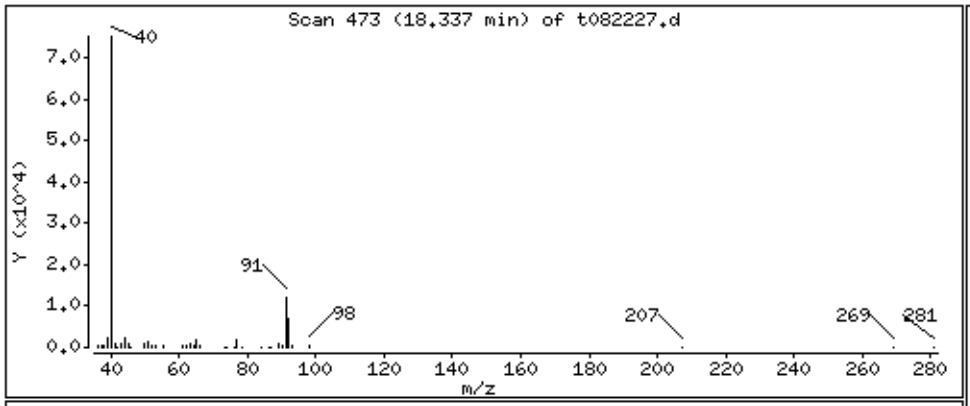
Operator: kr

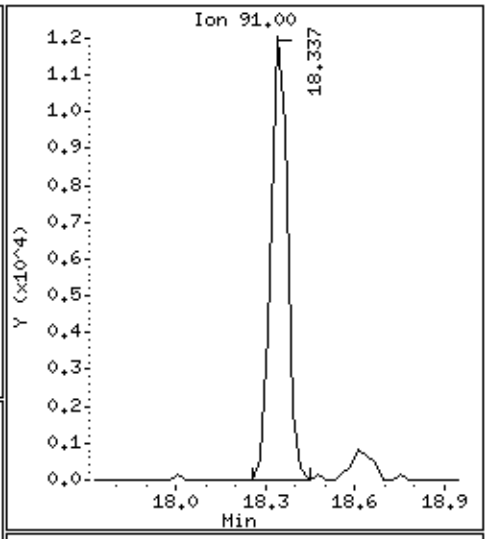
Column phase: RTx-624

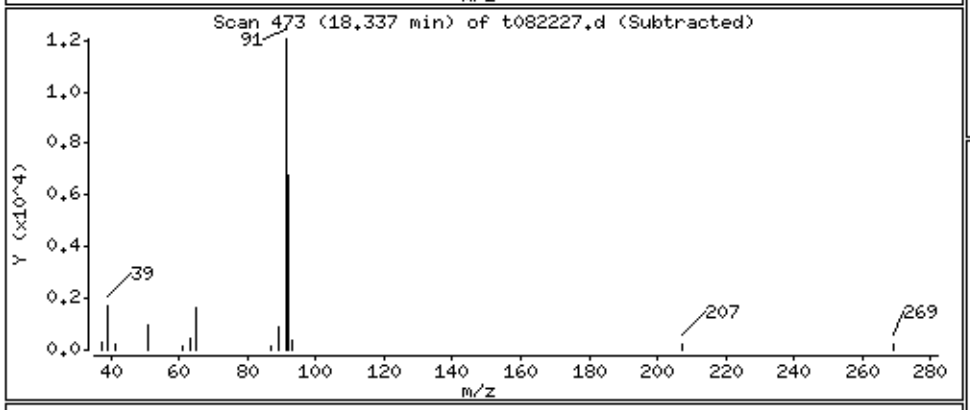
Column diameter: 0.53

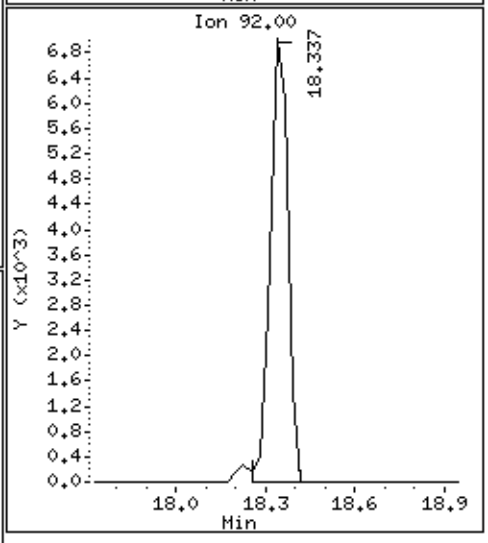
114 Toluene

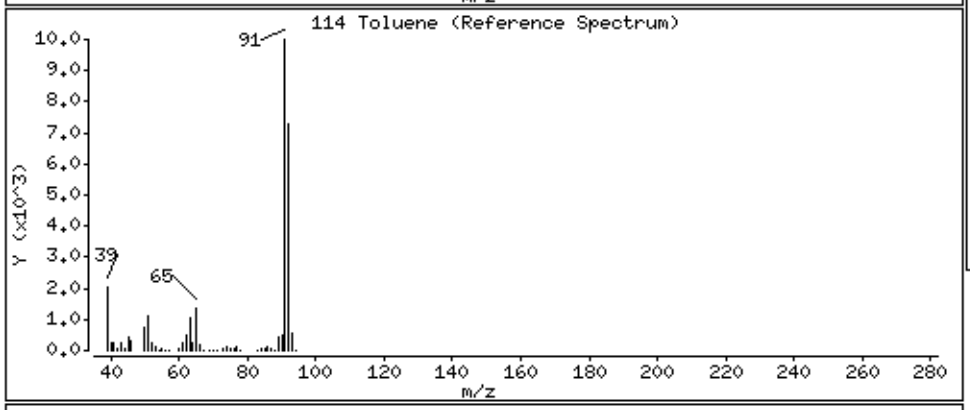
Concentration: 1.997 PPBV

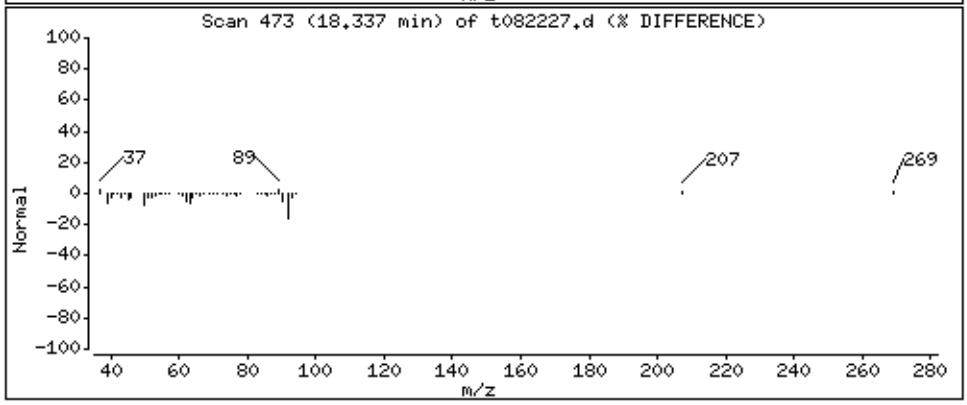












Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9408

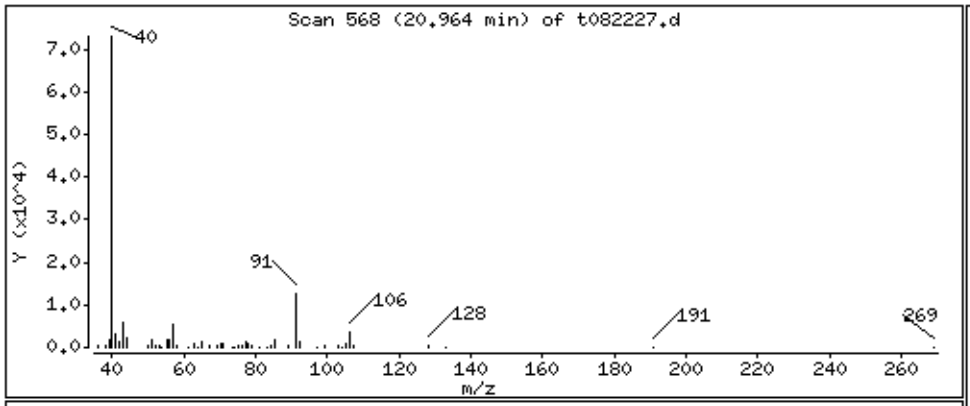
Operator: kr

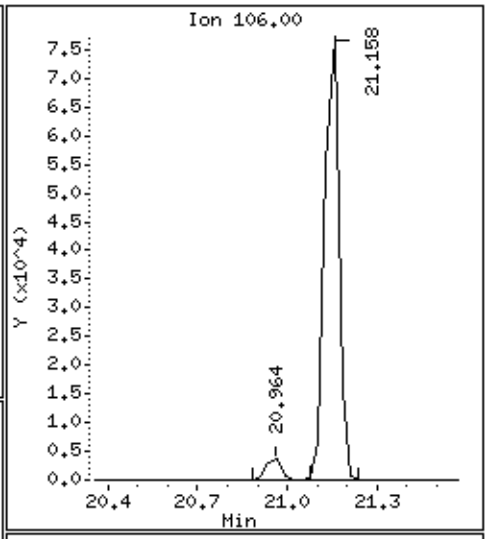
Column phase: RTx-624

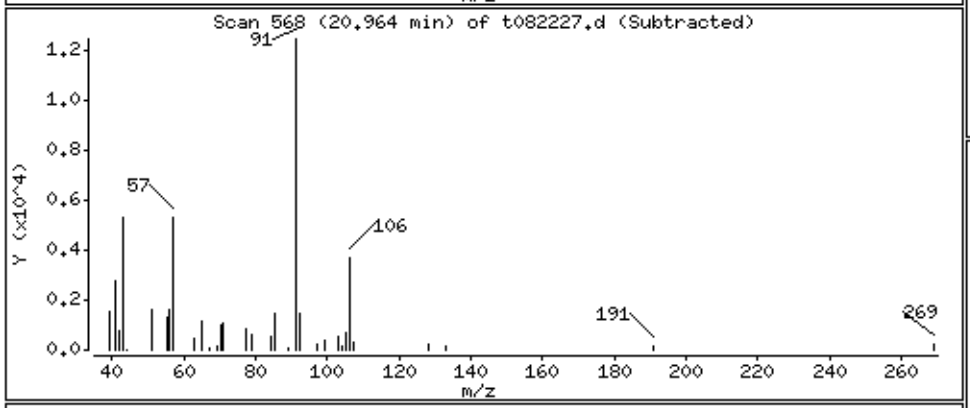
Column diameter: 0.53

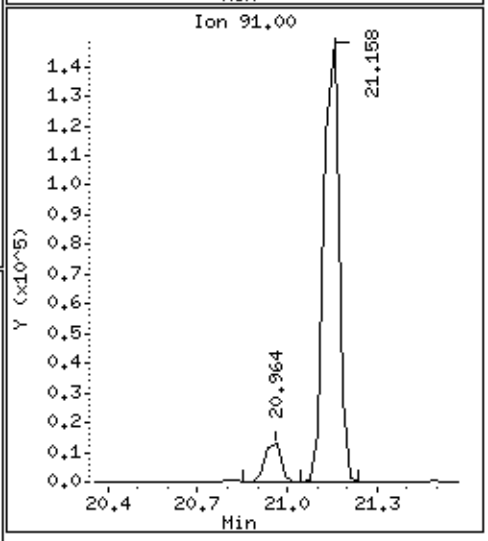
128 Ethyl Benzene

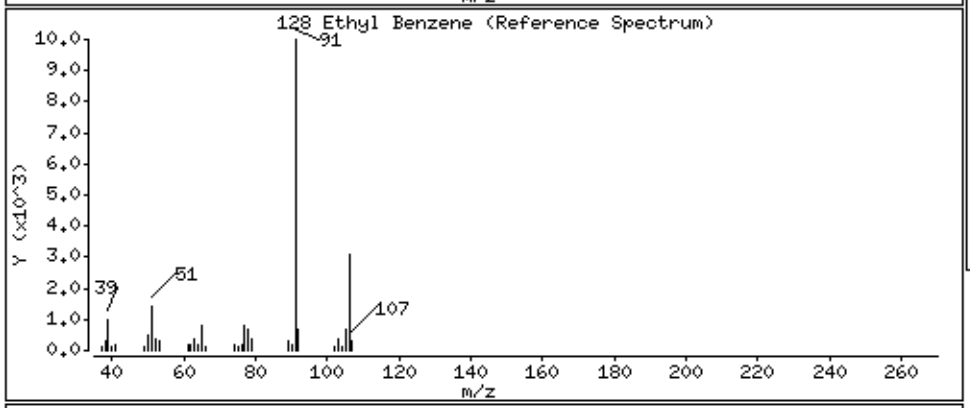
Concentration: 1.340 PPBV

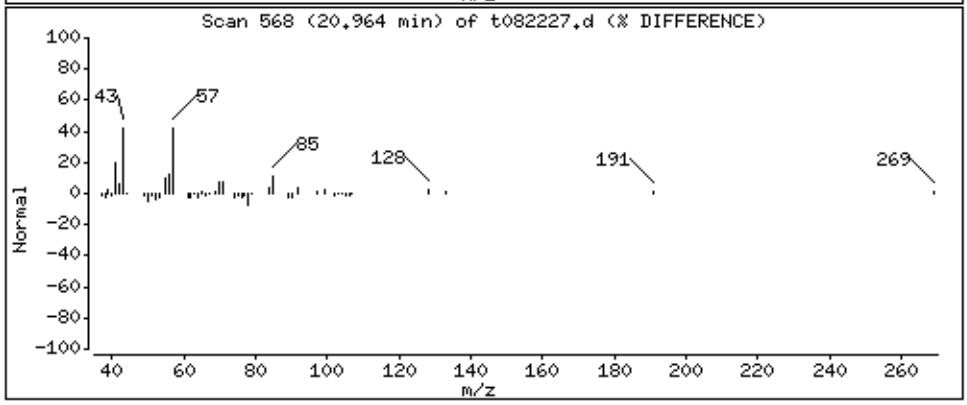












Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9408

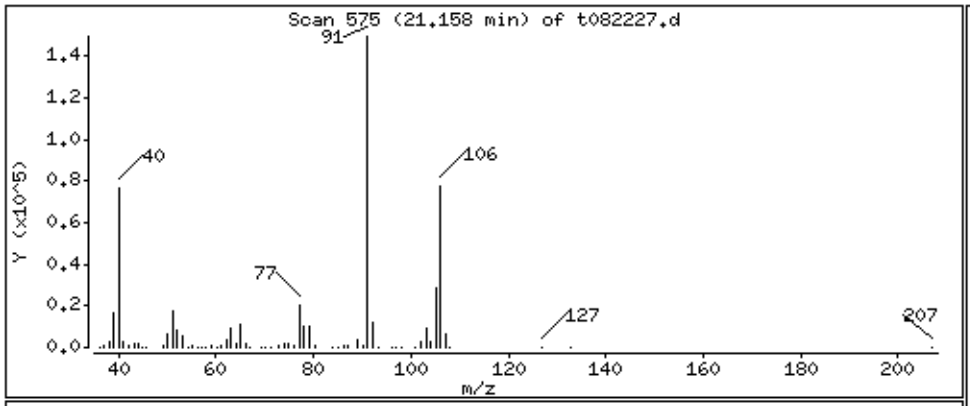
Operator: kr

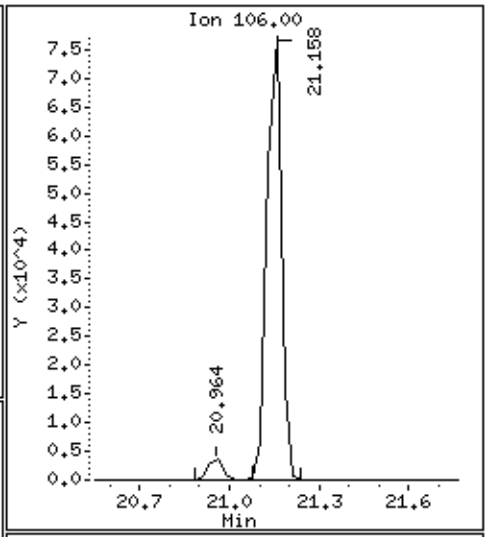
Column phase: RTx-624

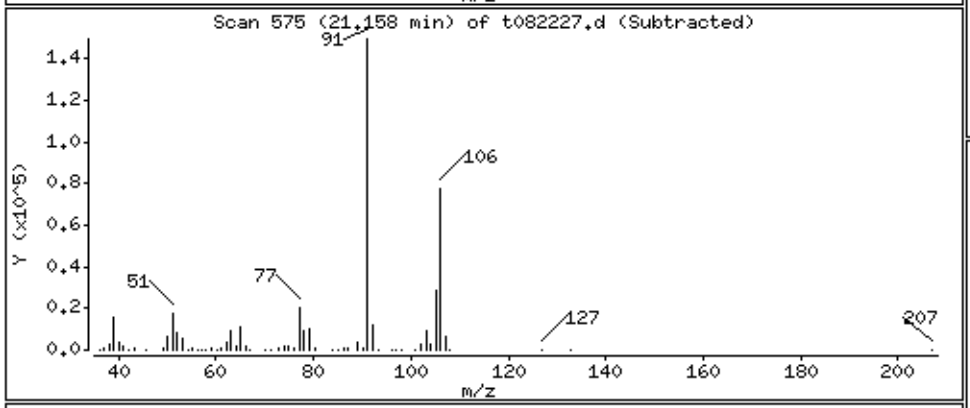
Column diameter: 0.53

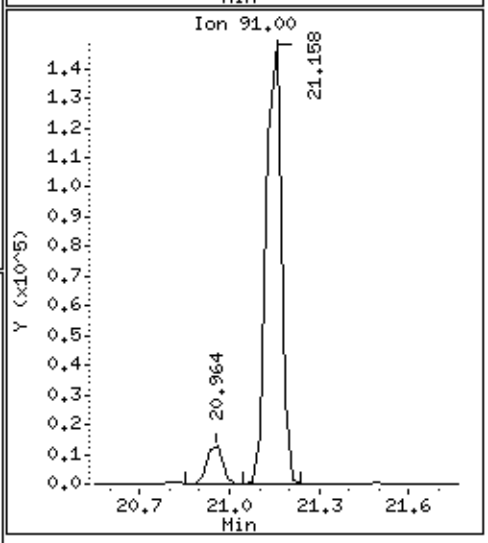
129 m,p-Xylene

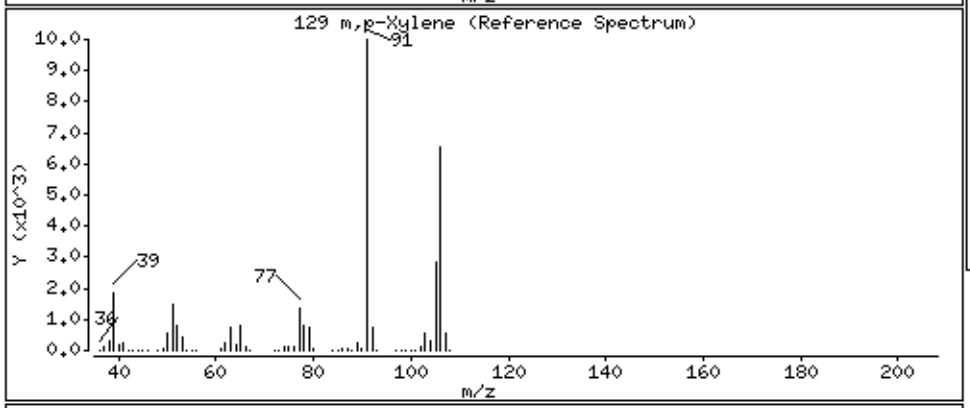
Concentration: 20.784 PPBV

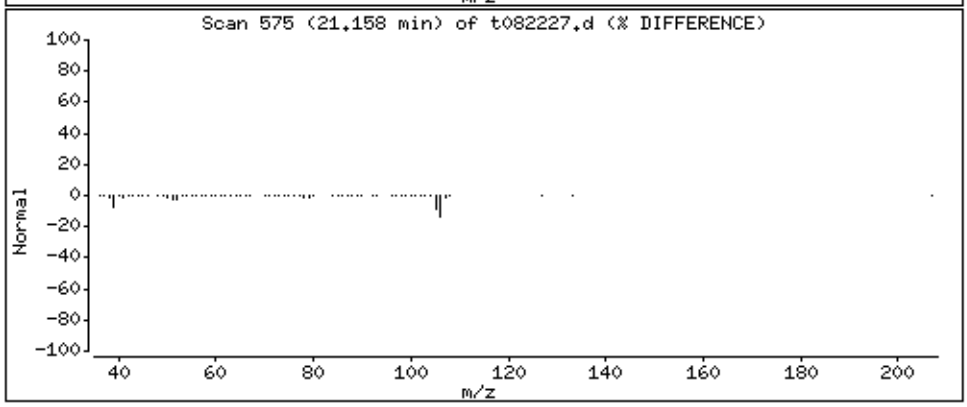












Data File: /chem/msdt.i/22Aug2007.b/t082227.d

Date : 23-AUG-2007 02:26

Client ID:

Instrument: msdt.i

Sample Info: 200mL #9408

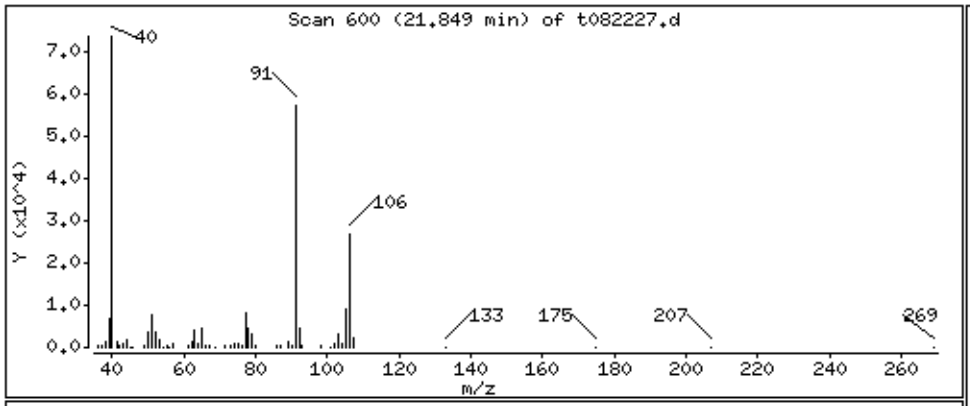
Operator: kr

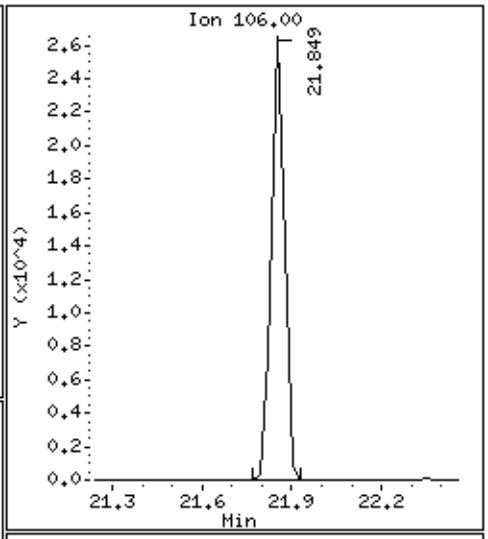
Column phase: RTx-624

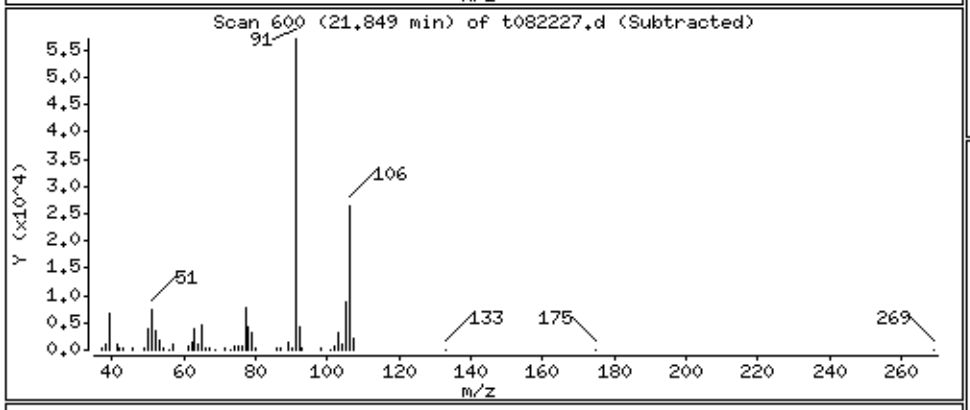
Column diameter: 0.53

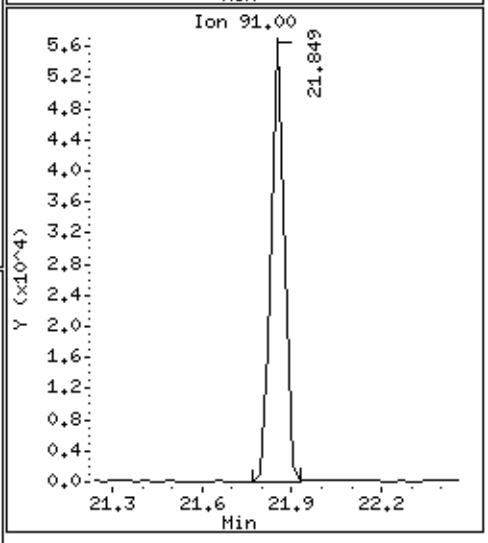
130 o-Xylene

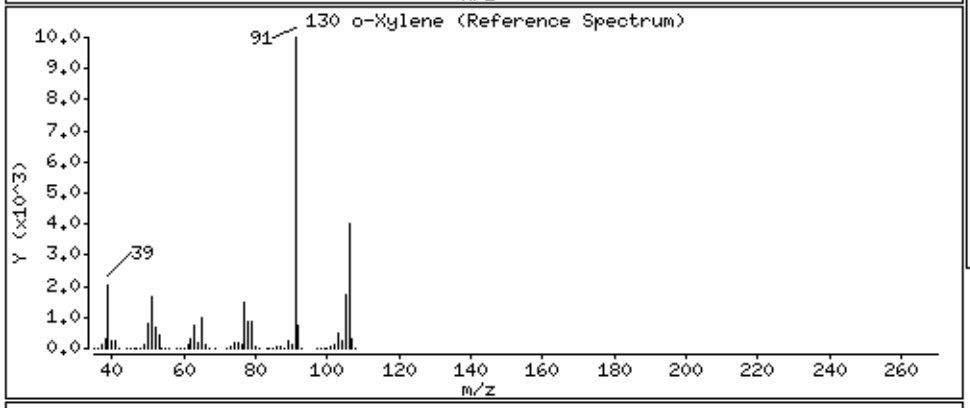
Concentration: 7.212 PPBV

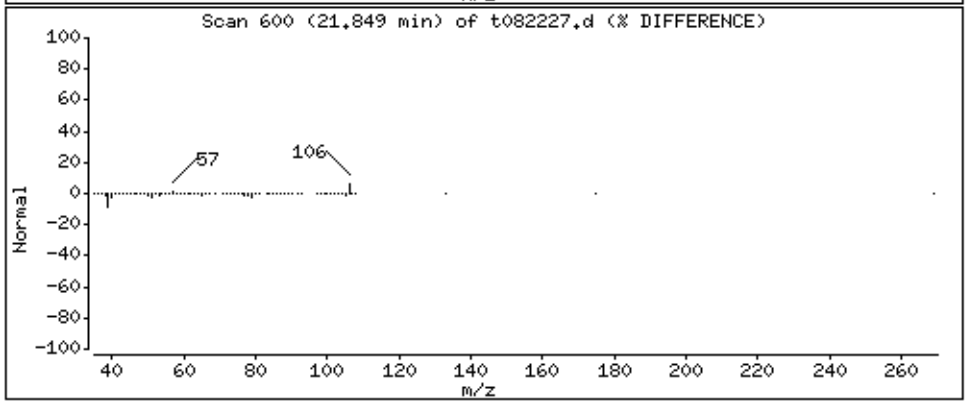












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0708221-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082215**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/07 04:43 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0708221-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082215**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/07 04:43 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082215.d
Lab Smp Id: Lab Blank
Inj Date : 22-AUG-2007 16:43
Operator : ab Inst ID: msdt.i
Smp Info : 200mL #31437
Misc Info : Humid
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 14:23 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 13:48 Cal File: t082211.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	209394	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	162387			26.10- 126.10	77.55
13.886	13.886 (1.000)	49	397975			227.80- 327.80	190.06
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.627	15.628 (1.000)	114	843650	25.0000		80.00- 120.00	100.00
15.627	15.628 (1.000)	88	133050			0.00- 65.83	15.77
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	753552	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	452351			12.31- 112.31	60.03
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	346369	21.6870	21.687	80.00- 120.00	100.00
14.964	14.964 (1.078)	67	167009			2.98- 102.98	48.22
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.226	18.227 (1.166)	98	811095	24.6856	24.686	80.00- 120.00	100.00
18.226	18.227 (1.166)	70	97265			0.00- 62.07	11.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.226	18.227 (1.166)	100	557236			18.35- 118.35	68.70
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	325847	23.3241	23.324	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	453743			93.21- 193.21	139.25
22.789	22.789 (1.096)	176	308801			45.69- 145.69	94.77

Report Date: 22-Aug-2007 17:01

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082215.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ab
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: Humid

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	209394	-0.39
97 1,4-Difluorobenze	855220	513132	1197308	843650	-1.35
126 Chlorobenzene-d5	776619	465971	1087267	753552	-2.97

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

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

Report Date: 22-Aug-2007 17:01

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 22Aug2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank
Level: LOW Operator: ab
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	21.687	86.75	70-130
$ 113 Toluene-d8	25.000	24.686	98.74	70-130
$ 137 Bromofluorobenzene	25.000	23.324	93.30	70-130

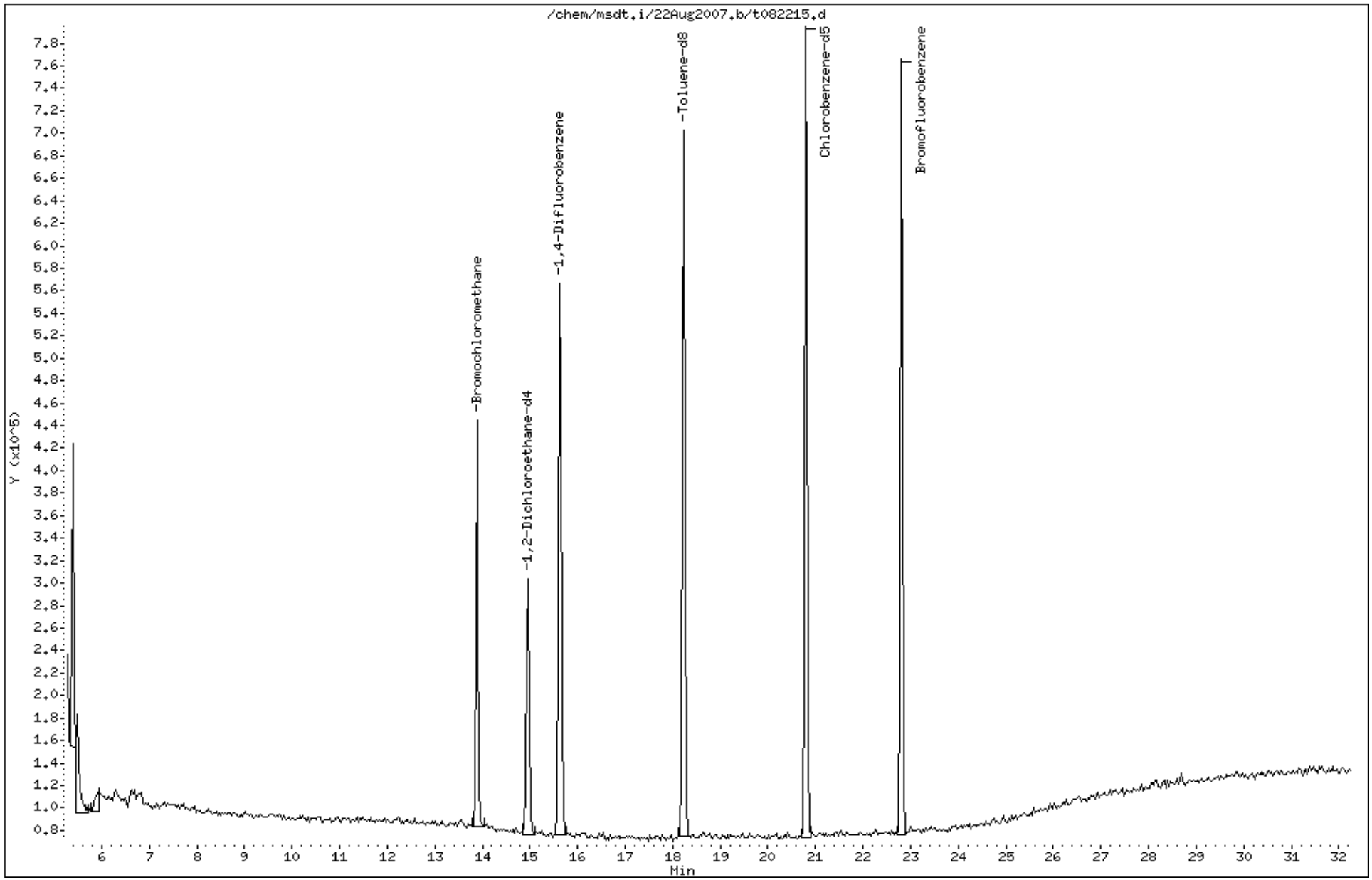
0039

Data File: /chem/msdt.i/22Aug2007.b/t082215.d
Date : 22-AUG-2007 16:43
Client ID:
Sample Info: 200mL #31437

Instrument: msdt.i

Operator: ab
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.: 0708221

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS#1	94		98		86				0
02	DW AMS#5	98		101		95				0
03	Lab Blank	87		99		93				0
04	CCV	100		102		101				0
05	LCS	92		100		103				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: 0708221
Lab File ID: t082209a.d
Date Analyzed: 08/22/2007
Instrument ID: msdt.i
Time Analyzed: 12:29 PM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	776619		20.8		855220		15.63		210206		13.89	
	UPPER LIMIT	1087267		21.13		1197308		15.96		294288		14.22	
	LOWER LIMIT	465971		20.47		513132		15.30		126124		13.56	
	CLIENT SAMPLE NO												
01	UW AMS#1	702171		20.8		794556		15.66		202467		13.89	
02	DW AMS#5	689732		20.83		782466		15.66		202114		13.89	
03	Lab Blank	753552		20.8		843650		15.63		209394		13.89	
04	CCV	776619		20.8		855220		15.63		210206		13.89	
05	LCS	803259		20.8		896057		15.63		216677		13.89	
06													
07													
08													
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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 : 22-AUG-2007 09:46
End Cal Date : 22-AUG-2007 13:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/22Aug2007.b/t14q822a.m
Cal Date : 22-Aug-2007 14:09 lover
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdt.i/22Aug2007.b/t082205.d
Level 2: /chem/msdt.i/22Aug2007.b/t082206.d
Level 3: /chem/msdt.i/22Aug2007.b/t082207.d
Level 4: /chem/msdt.i/22Aug2007.b/t082208.d
Level 5: /chem/msdt.i/22Aug2007.b/t082209.d
Level 6: /chem/msdt.i/22Aug2007.b/t082210.d
Level 7: /chem/msdt.i/22Aug2007.b/t082211.d

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Propylene	+++++	+++++	1.35098	1.45895	1.35206	1.31534	1.33695	1.36286	4.089
15 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Dichlorodifluoromethane/Fr12	+++++	4.16578	4.69001	5.11153	4.77978	4.51828	4.29692	4.59372	7.471
17 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
16 Freon 114	+++++	3.68168	3.24247	5.58966	4.02562	3.85795	3.09802	3.91590	22.824
18 Chloromethane	+++++	+++++	1.84498	1.74322	1.60306	1.51175	1.54224	1.64905	8.556
21 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Vinyl Chloride	+++++	1.55089	1.80980	1.95773	1.85969	1.82939	1.78689	1.79907	7.524
19 Butane	+++++	+++++	0.41526	0.76517	0.55376	0.55120	0.42279	0.54164	26.160
22 1,3-Butadiene	+++++	2.23619	1.87728	3.45849	2.48649	2.64875	2.02062	2.45464	23.159
26 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Bromomethane	+++++	1.29825	1.38236	1.59884	1.49828	1.49385	1.50212	1.46228	7.226
28 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Chloroethane	+++++	0.72943	0.90690	1.00589	0.90579	0.91496	0.91837	0.89689	10.083

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
29 Isopentane	*****	*****	4.96128	6.66255	5.71991	6.07874	5.38849	5.76219	11.293
30 2-Butanol	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 Dichlorofluoromethane/Fr21	*****	*****	*****	*****	*****	*****	*****	*****	*****
35 1-Pentene	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 Trichlorofluoromethane/Fr11	*****	6.48417	7.02775	10.58805	8.53864	8.67454	6.91550	8.03811	19.155
37 Pentane	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 3-Methyl-1-Hexene	*****	*****	*****	*****	*****	*****	*****	*****	*****
33 Vinyl Bromide	*****	*****	*****	*****	*****	*****	*****	*****	*****
36 Methacrylonitrile	*****	*****	*****	*****	*****	*****	*****	*****	*****
38 Ethanol	*****	*****	0.89190	1.54420	1.10119	1.01637	0.82928	1.07659	26.197

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
39 Ethyl Ether	*****	*****	*****	*****	*****	*****	*****	*****	*****
40 Freon123a	*****	*****	*****	*****	*****	*****	*****	*****	*****
41 Freon123	*****	*****	*****	*****	*****	*****	*****	*****	*****
44 Acrolein	*****	*****	*****	*****	*****	*****	*****	*****	*****
42 Freon 113	*****	4.71443	4.66741	6.15599	5.35168	5.80054	5.12597	5.30267	11.186
43 1,1-Dichloroethene	*****	2.90208	2.82224	4.28121	3.55610	3.95385	3.53633	3.50863	16.309
45 Acetone	*****	*****	1.11731	1.33315	1.09246	1.34938	1.18447	1.21535	9.866
46 2-Propanol	*****	*****	3.62812	6.41881	5.33691	6.39436	5.60726	5.47709	20.784
48 Ethyl acrylate	*****	*****	*****	*****	*****	*****	*****	*****	*****
47 Carbon Disulfide	*****	3.77447	4.05445	5.27615	4.79059	4.96376	4.80368	4.61052	12.444

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 3-Chloropropene	+++++	+++++	0.59672	0.89217	0.80425	0.94048	0.90107	0.82694	16.686
52 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Methylene Chloride	+++++	2.25535	2.31920	2.95250	2.46853	2.58826	2.34412	2.48799	10.318
57 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 MTBE	+++++	3.89323	2.93858	4.87506	4.27197	4.23620	3.50586	3.95348	17.023
61 trans-1,2-Dichloroethene	+++++	1.55341	1.62546	2.06251	1.79890	1.98087	1.92505	1.82437	11.098
62 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Hexane	+++++	2.72760	3.15056	4.86227	4.43013	5.02519	5.13946	4.22254	24.432
67 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 Isopropyl ether	*****	*****	*****	*****	*****	*****	*****	*****	*****
69 Vinyl Acetate	*****	*****	0.24631	0.44949	0.43402	0.47676	0.46923	0.41516	23.091
70 1,1-Dichloroethane	*****	3.12623	3.22596	4.59285	4.07664	4.39528	4.18491	3.93365	15.605
71 1-Propanol	*****	*****	*****	*****	*****	*****	*****	*****	*****
24 Chloroprene	*****	*****	*****	*****	*****	*****	*****	*****	*****
72 2,4,4-Trimethyl-2-pentene	*****	*****	*****	*****	*****	*****	*****	*****	*****
73 t-Butylethyl Ether	*****	*****	*****	*****	*****	*****	*****	*****	*****
74 Butanal	*****	*****	*****	*****	*****	*****	*****	*****	*****
77 Ethyl Acetate	*****	*****	*****	*****	*****	*****	*****	*****	*****
78 2,2-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	*****	*****

Air Toxics Ltd.

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
75 2-Butanone	+++++	0.61723	0.64375	0.92441	0.85213	0.91943	0.89047	0.80790	17.337
76 cis-1,2-Dichloroethene	+++++	1.79041	2.15778	2.89298	2.67553	2.71404	2.59709	2.47130	16.744
79 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Tetrahydrofuran	+++++	2.27956	2.00397	2.70120	2.49992	2.56561	2.42476	2.41250	10.139
82 Chloroform	3.16483	2.62246	3.36504	4.36806	3.89976	3.92881	3.65427	3.57189	16.105
84 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 1,1,1-Trichloroethane	+++++	3.33021	4.06192	5.44377	4.83488	5.02116	4.75662	4.57476	16.553
85 Cyclohexane	+++++	1.61039	1.89889	3.00609	2.78379	3.05884	2.97050	2.55475	24.788
86 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
87 Carbon Tetrachloride	+++++	2.98201	3.72285	4.89019	4.37971	4.44120	4.20907	4.10417	16.246
99 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 2,2,4-Trimethylpentane	+++++	7.42035	9.04993	14.60701	12.43152	14.35597	14.14824	12.00217	25.497
91 Benzene	1.68505	0.92870	1.09255	1.38603	1.30161	1.24587	1.21405	1.26484	18.771
92 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 1,2-Dichloroethane	+++++	0.47104	0.63413	0.76873	0.68815	0.64444	0.61447	0.63683	15.399
94 Heptane	+++++	0.26993	0.31873	0.47814	0.45743	0.45784	0.46512	0.40787	21.968
95 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
100 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Trichloroethene	+++++	0.37355	0.46497	0.56787	0.52832	0.50730	0.48673	0.48812	13.592
102 Methyl Cyclohexane	+++++	1.73066	2.28703	3.39017	3.20955	3.38954	3.35684	2.89396	24.567
103 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 1,2-Dichloropropane	+++++	0.34334	0.44998	0.55262	0.51848	0.49939	0.49476	0.47643	15.381
106 1,4-Dioxane	+++++	+++++	0.20146	0.31881	0.30531	0.29959	0.30049	0.28513	16.625
105 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 Bromodichloromethane	+++++	0.74190	0.87859	1.06810	1.00721	0.93288	0.89072	0.91990	12.299
108 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
109 Dodecane	*****	*****	*****	*****	*****	*****	*****	*****	*****
110 cis-1,3-Dichloropropene	*****	0.45674	0.52592	0.73653	0.70573	0.67208	0.66409	0.62685	17.593
111 4-Methyl-2-pentanone	*****	0.24814	0.28637	0.47897	0.47056	0.47063	0.48757	0.40704	26.810
112 Octane	*****	*****	*****	*****	*****	*****	*****	*****	*****
114 Toluene	*****	1.01387	1.13643	1.45616	1.40809	1.35708	1.35989	1.28859	13.475
115 Undecane	*****	*****	*****	*****	*****	*****	*****	*****	*****
116 trans-1,3-Dichloropropene	*****	0.52559	0.71959	0.95011	0.86364	0.84741	0.80420	0.78509	18.831
117 1,1,2-Trichloroethane	*****	0.39716	0.58616	0.66270	0.60650	0.59653	0.56905	0.56968	15.849
120 Tetrachloroethene	*****	0.52630	0.67642	0.81144	0.73691	0.72646	0.68667	0.69403	13.695
121 2-Hexanone	*****	*****	0.42140	0.75829	0.72068	0.74742	0.74118	0.67779	21.243

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/22Aug2007.b/t14q822a.m
Cal Date : 22-Aug-2007 14:09 lover
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
118 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 Dibromochloromethane	+++++	0.65451	0.91214	1.16867	1.07287	1.05002	1.00260	0.97680	18.321
123 1,2-Dibromoethane	+++++	0.63569	0.86629	1.07605	1.00774	0.99612	0.95165	0.92226	16.974
127 Chlorobenzene	+++++	0.95311	1.31028	1.45621	1.34006	1.33371	1.29690	1.28171	13.313
124 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl Benzene	+++++	0.47100	0.57555	0.74012	0.68870	0.69369	0.67818	0.64121	15.509
125 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 m,p-Xylene	+++++	0.48625	0.66518	0.90121	0.84893	0.86833	0.85259	0.77042	21.045
130 o-Xylene	+++++	0.44014	0.57859	0.83114	0.78413	0.79050	0.77956	0.70068	22.208

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-AUG-2007 09:46
End Cal Date : 22-AUG-2007 13:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/22Aug2007.b/t14q822a.m
Cal Date : 22-Aug-2007 14:09 lover
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
131 Styrene	0.92321	0.68558	0.80959	1.32863	1.27707	1.30228	1.30873	1.09073	25.243
132 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Bromoform	+++++	0.53720	0.84007	1.03081	0.97141	0.96787	0.94541	0.88213	20.416
134 Cumene	1.75709	1.18572	1.50004	2.11149	1.99757	2.03862	2.04253	1.80472	19.206
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 1,1,2,2-Tetrachloroethane	+++++	0.93194	1.16659	1.39472	1.29752	1.30262	1.28478	1.22970	13.254
136 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Propylbenzene	+++++	1.43779	1.76548	2.55386	2.44290	2.53802	2.57774	2.21930	22.154
139 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-AUG-2007 09:46
End Cal Date : 22-AUG-2007 13:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/22Aug2007.b/t14q822a.m
Cal Date : 22-Aug-2007 14:09 lover
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
144 beta-Pinene	#####	#####	#####	#####	#####	#####	#####	#####	#####
145 4-Ethyltoluene	#####	0.97413	1.37773	2.05816	1.94727	2.06946	2.13068	1.75957	26.908
141 2-Chlorotoluene	#####	#####	#####	#####	#####	#####	#####	#####	#####
147 1,3,5-Trimethylbenzene	#####	0.88505	1.36623	1.75846	1.66474	1.70794	1.72337	1.51763	22.466
143 4-Chlorotoluene	#####	#####	#####	#####	#####	#####	#####	#####	#####
146 Diisobutyl Ketone	#####	#####	#####	#####	#####	#####	#####	#####	#####
148 tert-Butylbenzene	#####	#####	#####	#####	#####	#####	#####	#####	#####
150 1,2,4-Trimethylbenzene	#####	0.81906	1.02741	1.48752	1.44476	1.52478	1.57257	1.31268	23.740
201 Pentachloroethane	#####	#####	#####	#####	#####	#####	#####	#####	#####
152 D-Limonene	#####	#####	#####	#####	#####	#####	#####	#####	#####

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-AUG-2007 09:46
End Cal Date : 22-AUG-2007 13:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/22Aug2007.b/t14q822a.m
Cal Date : 22-Aug-2007 14:09 lover
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
149 sec-Butylbenzene	#####	#####	#####	#####	#####	#####	#####	#####	#####
151 bis(2-chloroethyl)ether	#####	#####	#####	#####	#####	#####	#####	#####	#####
153 p-Cymene	#####	#####	#####	#####	#####	#####	#####	#####	#####
155 1,3-Dichlorobenzene	#####	0.65942	0.86196	1.03983	0.99255	1.06147	1.10288	0.95302	17.420
154 1,2,3-Trimethylbenzene	#####	#####	#####	#####	#####	#####	#####	#####	#####
156 1,4-Dichlorobenzene	#####	0.73974	0.84423	1.04260	1.00126	1.06915	1.12147	0.96974	15.146
157 Indan	#####	#####	#####	#####	#####	#####	#####	#####	#####
159 alpha-Chlorotoluene	#####	0.92339	0.95547	1.40959	1.40245	1.53233	1.65155	1.31246	23.102
158 Butylbenzene	#####	#####	#####	#####	#####	#####	#####	#####	#####
160 Indene	#####	#####	#####	#####	#####	#####	#####	#####	#####

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-AUG-2007 09:46
End Cal Date : 22-AUG-2007 13:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/22Aug2007.b/t14q822a.m
Cal Date : 22-Aug-2007 14:09 lover
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
161 1,2-Dichlorobenzene	+++++	0.53970	0.67873	0.91009	0.88453	0.94582	1.00520	0.82734	21.663
203 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
164 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 1,2,4-Trichlorobenzene	+++++	+++++	0.32857	0.33947	0.30559	0.38951	0.45722	0.36407	16.599
166 Hexachlorobutadiene	+++++	+++++	0.55981	0.51405	0.47824	0.54690	0.56481	0.53276	6.821
167 Naphthalene	+++++	+++++	0.82505	0.75505	0.66924	0.89589	1.04971	0.83899	17.241
202 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-AUG-2007 09:46
End Cal Date : 22-AUG-2007 13:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/22Aug2007.b/t14q822a.m
Cal Date : 22-Aug-2007 14:09 lover
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
169 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 90 1,2-Dichloroethane-d4	1.81943	1.87966	1.97627	1.90192	1.90727	1.91184	1.95150	1.90684	2.643
$ 113 Toluene-d8	0.95825	0.96423	0.96238	0.97304	0.99647	0.97197	0.98923	0.97365	1.464
$ 137 Bromofluorobenzene	0.43022	0.43610	0.42869	0.47548	0.46994	0.49246	0.51149	0.46349	7.045

Calibration History

Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Start Cal Date: 22-AUG-2007 09:46
End Cal Date : 22-AUG-2007 13:48

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
22-AUG-2007 09:46	AFCEElow	/chem/msdt.i/22Aug2007.b/t082205.d
Cal Level: 2 , Cal Amount: 0.50000		
22-AUG-2007 10:27	AT04low+ENSR	/chem/msdt.i/22Aug2007.b/t082206.d
Cal Level: 3 , Cal Amount: 2.00000		
22-AUG-2007 11:09	AT04mdl+ENSR	/chem/msdt.i/22Aug2007.b/t082207.d
Cal Level: 4 , Cal Amount: 25.00000		
22-AUG-2007 11:50	AT04mdl+ENSR	/chem/msdt.i/22Aug2007.b/t082208.d
Cal Level: 5 , Cal Amount: 50.00000		
22-AUG-2007 12:29	AT04mdl+ENSR	/chem/msdt.i/22Aug2007.b/t082209.d
Cal Level: 6 , Cal Amount: 100.00000		
22-AUG-2007 13:08	AT04mdl+ENSR	/chem/msdt.i/22Aug2007.b/t082210.d
Cal Level: 7 , Cal Amount: 200.00000		
22-AUG-2007 13:48	AT04mdl+ENSR	/chem/msdt.i/22Aug2007.b/t082211.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
22-AUG-2007 12:29	AT04mdl+ENSR	/chem/msdt.i/22Aug2007.b/t082209.d
Ccal Level: 5 , Ccal Amount: 50.000		
22-AUG-2007 12:29	AT04mdl+ENSR	/chem/msdt.i/22Aug2007.b/t082209a.d

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-T on 22 August 2007.

The following compounds used 0.2 ppbv as the lowest calibration concentration:

Chloroform, Benzene, Cumene, and Styrene.

@ Air Toxics Ltd.

MSD-T

Logbook #: 1533

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	24.49
75	30.0 – 60.0% of mass 95	47.26
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	(0.65)[1]
174	Greater than 50.0% of mass 95	66.40
175	5.0 – 9.0% of mass 174	(7.13)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.93)[1]
177	5.0 – 9.0% of mass 176	(6.56)[2]

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

BFB Injection Date: 8/22/07
BFB Injection Time: 0923
BFB File ID: T082204
Tekmar Purge Flow: N/A
Vacuum: 2.31 x 10^{-5} torr

IS/S Std.#: ~~81210414~~ 1487-369	Exp. Date: 11/20/07	
BCM	210206	
1,4-DFB	855220	
CB-d5	776619	

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

Verify 176/174 m/z Ratio: 690856 / 720202 x 100 = 95.925%

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 400920\ )}{(\ 210206\ )} \times \frac{(\ 25.0\ )}{(\ 1.90684\ )} = 25.006$

Reported Result 25.006

File ID:	T082209
Compound:	1,2-DCA-d4
Initials:	CB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	T082204	BFB Tune Check	1476-58	50 mg	2 uL	1.00	CB	8/22/07	0923	CB	
2	✓	05	ICAL Level 1	1443-270	200 ppbv – 0.2 ppbv	0.2 mL		CB		0946	CB	t/14q822a
3	✓	06	2		200 ppbv – 0.5 ppbv	0.5 mL		CB		1027	CB	
4	✓	07	3		200 ppbv – 2 ppbv	2 mL		CB		1109	CB	
5	✓	08	4		200 ppbv – 25 ppbv	25 mL		CB		1150	CB	
6	✓	09	5		200 ppbv – 50 ppbv	50 mL		CB		1229	CB	CCV
7	✓	10	6		200 ppbv – 100 ppbv	100 mL		CB		1308	CB	
8	✓	11	7		200 ppbv	200 mL		CB		1348	CB	
9	✓	12	System Blank	31437	Humid	200 mL	↓	CB	↓	1430	CB	

Signature

8/22/07
Date

10	✓	T082213	LCS-1 (200 ppbv)	1443-164	50 ppbv	50mL	1.00	CB	8/22/07	1513	CB	ICAL LCS
11	✓	14	LCSD (200 ppbv)	↓	↓	↓	1.00	CB		1552	AB/LO	
12	✓	15	Lab Blank	31437	Humid	200mL	1.00	AB		1643	AB/LO	
13	✓	16	0708212E-97A	9397	3.5"Hg-5psi	200mL	1.52	AB		1729	AB/LO	
14	✓	17	0708225-01A	2124	5.0"Hg-15psi	7.0mL	69.1	AB		1819	LO	RR @ 10mL
15	✓	18	↓ -01A	↓	↓	10mL	48.4	AB		1905	AB/LO	
16	X	19	0708262C-11AB	35156	5.0"Hg-5psi	10mL	32.2	AB		1953	SM	RR @ 50mL
17	X ✓	20	0708262C-11AB	35156	5.0"Hg-5psi	55mL	5.85	SM		2039	AB/SM	Dilute for NT
18	✓	21	0708203B-01A	33580	↓	25mL	12.9	AB		2134	AB/LO	
19	X	22	↓ -03A	13132	4.5"Hg-5psi	15mL	21.1	AB		2238	—	
20	✓	23	↓ -03A	↓	↓	125mL	2.53	AB		2336	KR	
21	✓	24	0708396-01A	12363	20"Hg-15psi	15mL	28.8	KR	8/23/07	0023	KR	
22	✓	25	0708221-01A	9913	10.5"Hg-5psi	200mL	2.06	KR		0106	KR	
23	✓	26	0708396-01AA	12363	20"Hg-15psi	15mL	28.8	KR		0144	KR	
24	✓	27	0708221-02A	9408	6.5"Hg-5psi	200mL	1.71	KR		0226	KR	
25	X	28	0708432-01A	bag	NA	100mL	2.00	KR		0306	KR	RR 200mL
26	✓	29	0708258-01A	05709	6.0"Hg-5psi	200mL	1.68	KR		0345	KR	
27	✓	30	↓ -02A	20943	6.0"Hg-5psi	200mL	1.68	KR		0423	KR	
28	✓	31	0708432-01A	bag	NA	200mL	1.00	KR	↓	0519	KR	
29												
30												
31			LO 8/23/07									
32												

Comments: Flow Controller SN #AA98123220

NIST Flowmeter SN # 118812 Actual = 24.6 mL/min

Nominal = 22.1 mL/min

0064

Laura Ormonyer
Signature

8/23/07
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/msdt.i/22Aug2007.b/t082213.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 22-AUG-2007 15:13
Operator : cb Inst ID: msdt.i
Smp Info : 50mL #1443-164
Misc Info : 200ppbv --> 50ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 14:23 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 13:48 Cal File: t082211.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	216677	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	164801			26.10- 126.10	76.06
13.886	13.886 (1.000)	49	569445			227.80- 327.80	262.81
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.628	15.628 (1.000)	114	896057	25.0000		80.00- 120.00	100.00
15.628	15.628 (1.000)	88	146575			0.00- 65.83	16.36
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	803259	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	476079			12.31- 112.31	59.27
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	378907	22.9269	22.927	80.00- 120.00	100.00
14.964	14.964 (1.078)	67	216313			2.98- 102.98	57.09
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.166)	98	873914	25.0420	25.042	80.00- 120.00	100.00
18.227	18.227 (1.166)	70	101690			0.00- 62.07	11.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	594726			18.35- 118.35	68.05
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	383081	25.7240	25.724	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	530632			93.21- 193.21	138.52
22.789	22.789 (1.096)	176	367728			45.69- 145.69	95.99
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	569687	48.2296	48.230	80.00- 120.00	100.00
5.840	5.840 (0.421)	42	395181			24.48- 124.48	69.37
5.840	5.840 (0.421)	39	435083			30.62- 130.62	76.37
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	1905320	47.8554	47.855	80.00- 120.00	100.00
5.950	5.950 (0.429)	87	618261			0.00- 82.77	32.45
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	1862397	54.8741	54.874	80.00- 120.00	100.00
6.310	6.310 (0.454)	137	597688			0.00- 80.13	32.09
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	657674	46.0155	46.016	80.00- 120.00	100.00
6.559	6.559 (0.472)	52	215245			0.00- 82.25	32.73
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	794561	50.9574	50.957	80.00- 120.00	100.00
6.918	6.918 (0.498)	64	262468			6.28- 106.28	33.03
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	1205125	56.6464	56.646	80.00- 120.00	100.00
6.973	6.973 (0.502)	39	1209256			68.34- 168.34	100.34
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	658193	51.9337	51.934	80.00- 120.00	100.00
7.941	7.941 (0.572)	96	620449			44.10- 144.10	94.27
27 Chloroethane					CAS #: 75-00-3		
8.218	8.217 (0.592)	64	397106	51.0852	51.085	80.00- 120.00	100.00
8.218	8.217 (0.592)	49	134244			0.00- 83.92	33.81
8.218	8.217 (0.592)	66	127059			0.00- 81.21	32.00
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.798 (0.632)	101	3626008	52.0478	52.048	80.00- 120.00	100.00
8.771	8.798 (0.632)	103	2332467			13.52- 113.52	64.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.268 (0.665)	45	462793	49.5981	49.598	80.00- 120.00	100.00
9.241	9.268 (0.665)	43	107350			0.00- 76.10	23.20
9.241	9.268 (0.665)	46	173047			0.00- 85.59	37.39
42 Freon 113					CAS #: 76-13-1		
9.960	9.959 (0.717)	151	2620076	57.0094	57.009	80.00- 120.00	100.00
9.960	9.959 (0.717)	153	1671593			13.26- 113.26	63.80
9.932	9.959 (0.715)	101	3564035			88.80- 188.80	136.03
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.070 (0.723)	61	1643852	54.0570	54.057	80.00- 120.00	100.00
10.042	10.070 (0.723)	96	853821			0.00- 99.48	51.94
10.042	10.070 (0.723)	98	549154			0.00- 81.48	33.41
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	537699	51.0463	51.046	80.00- 120.00	100.00
10.208	10.208 (0.735)	43	1931494			306.72- 406.72	359.21
46 2-Propanol					CAS #: 67-63-0		
10.374	10.402 (0.747)	45	2485112	52.3508	52.351	80.00- 120.00	100.00
10.374	10.402 (0.747)	43	527731			0.00- 76.17	21.24
10.374	10.402 (0.747)	59	87893			0.00- 53.25	3.54
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	2120556	53.0674	53.067	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	390077	54.4258	54.426	80.00- 120.00	100.00
10.844	10.844 (0.781)	41	1374063			346.11- 446.11	352.25
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	1098338	50.9347	50.935	80.00- 120.00	100.00
11.121	11.121 (0.801)	84	651632			7.95- 107.95	59.33
11.121	11.121 (0.801)	51	334996			0.00- 83.86	30.50
60 MTBE					CAS #: 1634-04-4		
11.453	11.480 (0.825)	73	1535431	44.8103	44.810	80.00- 120.00	100.00
11.453	11.480 (0.825)	57	403518			0.00- 75.14	26.28
11.453	11.480 (0.825)	41	438591			0.00- 84.65	28.56
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	846634	53.5440	53.544	80.00- 120.00	100.00
11.563	11.563 (0.833)	61	1400554			124.24- 224.24	165.43
11.563	11.563 (0.833)	98	539168			11.14- 111.14	63.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.922 (0.857)	57	2013698	55.0235	55.024	80.00- 120.00	100.00
11.895	11.922 (0.857)	43	1370481			25.69- 125.69	68.06
11.923	11.922 (0.859)	86	260158			0.00- 61.56	12.92
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.393 (0.890)	86	201799	56.0828	56.083	80.00- 120.00	100.00
12.365	12.393 (0.890)	43	2853962			1612.40-1712.40	1414.26
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	1804509	52.9287	52.929	80.00- 120.00	100.00
12.393	12.393 (0.892)	65	550087			0.00- 81.07	30.48
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	373861	53.3923	53.392	80.00- 120.00	100.00
13.416	13.416 (0.966)	43	1985999			501.13- 601.13	531.21
13.416	13.416 (0.966)	57	149562			0.00- 87.31	40.00
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	1144287	53.4239	53.424	80.00- 120.00	100.00
13.443	13.443 (0.968)	96	743762			12.87- 112.87	65.00
13.443	13.443 (0.968)	98	479391			0.00- 89.32	41.89
80 Tetrahydrofuran					CAS #: 109-99-9		
13.886	13.886 (1.000)	42	1034741	49.4870	49.487	80.00- 120.00	100.00
13.886	13.886 (1.000)	71	339326			0.00- 80.84	32.79
13.886	13.886 (1.000)	72	366970			0.00- 80.46	35.46
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	1628884	52.6161	52.616	80.00- 120.00	100.00
13.969	13.969 (1.006)	85	1022285			12.43- 112.43	62.76
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	2021262	50.9779	50.978	80.00- 120.00	100.00
14.300	14.300 (1.030)	99	1304616			15.14- 115.14	64.54
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.328 (1.030)	84	1267703	57.2527	57.253	80.00- 120.00	100.00
14.300	14.300 (1.030)	56	1747363			91.13- 191.13	137.84
14.300	14.300 (1.030)	41	995204			34.77- 134.77	78.50
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	1772092	49.8182	49.818	80.00- 120.00	100.00
14.549	14.549 (1.048)	117	1868815			54.57- 154.57	105.46
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	5939015	57.0929	57.093	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)							
14.881	14.881 (1.072)	56	2006572			0.00- 85.64	33.79
14.881	14.881 (1.072)	41	1633969			0.00- 83.48	27.51
91 Benzene					CAS #: 71-43-2		
14.964	14.992 (0.958)	78	2262831	49.9139	49.914	80.00- 120.00	100.00
14.964	14.992 (0.958)	77	494693			0.00- 71.98	21.86
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	1162165	50.9156	50.916	80.00- 120.00	100.00
15.102	15.102 (0.966)	64	358586			0.00- 82.98	30.85
94 Heptane					CAS #: 142-82-5		
15.185	15.213 (0.972)	71	796568	54.4892	54.489	80.00- 120.00	100.00
15.185	15.185 (0.972)	43	1710122			176.84- 276.84	214.69
15.185	15.213 (0.972)	57	891132			64.59- 164.59	111.87
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	921720	52.6835	52.684	80.00- 120.00	100.00
16.098	16.098 (1.030)	130	855153			42.67- 142.67	92.78
16.098	16.098 (1.030)	97	598697			14.82- 114.82	64.95
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	903395	52.9036	52.904	80.00- 120.00	100.00
16.568	16.568 (1.060)	62	672452			23.45- 123.45	74.44
16.568	16.568 (1.060)	41	596833			19.51- 119.51	66.07
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	529884	51.8490	51.849	80.00- 120.00	100.00
16.706	16.706 (1.069)	58	427595			31.06- 131.06	80.70
16.706	16.706 (1.069)	57	148118			0.00- 79.47	27.95
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	1660041	50.3480	50.348	80.00- 120.00	100.00
17.010	17.010 (1.088)	85	1030716			11.60- 111.60	62.09
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	1211340	53.9146	53.915	80.00- 120.00	100.00
17.784	17.784 (1.138)	77	381787			0.00- 81.89	31.52
17.784	17.784 (1.138)	39	795523			16.79- 116.79	65.67
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	832232	57.0441	57.044	80.00- 120.00	100.00
17.978	17.978 (1.150)	43	2174071			230.40- 330.40	261.23
17.978	17.978 (1.150)	85	289138			0.00- 84.16	34.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	2488237	53.8743	53.874	80.00- 120.00	100.00
18.337	18.337 (1.173)	92	1554068			13.41- 113.41	62.46
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	1324835	52.5203	52.520	80.00- 120.00	100.00
18.780	18.780 (0.903)	77	418454			0.00- 81.60	31.59
18.780	18.780 (0.903)	39	815084			11.72- 111.72	61.52
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	944782	51.6157	51.616	80.00- 120.00	100.00
19.111	19.111 (0.919)	99	597470			12.35- 112.35	63.24
19.111	19.111 (0.919)	83	830931			36.45- 136.45	87.95
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	1178860	52.8648	52.865	80.00- 120.00	100.00
19.277	19.277 (0.927)	129	883581			26.02- 126.02	74.95
19.277	19.277 (0.927)	131	839214			22.30- 122.30	71.19
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	1146400	52.6408	52.641	80.00- 120.00	100.00
19.443	19.443 (0.935)	43	2204046			149.89- 249.89	192.26
19.443	19.443 (0.935)	100	173997			0.00- 64.15	15.18
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	1674710	53.3602	53.360	80.00- 120.00	100.00
19.803	19.803 (0.952)	127	1289831			28.89- 128.89	77.02
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	1585347	53.5004	53.500	80.00- 120.00	100.00
20.079	20.079 (0.965)	109	1497676			44.25- 144.25	94.47
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	2152025	52.2566	52.257	80.00- 120.00	100.00
20.853	20.853 (1.003)	114	687261			0.00- 82.05	31.94
20.853	20.853 (1.003)	77	1299159			11.32- 111.32	60.37
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	1122467	54.4828	54.483	80.00- 120.00	100.00
20.936	20.964 (1.007)	91	3508995			265.67- 365.67	312.61
129 m,p-Xylene					CAS #: 108-38-3		
21.158	21.157 (1.017)	106	1400284	56.5686	56.569	80.00- 120.00	100.00
21.158	21.157 (1.017)	91	2750942			151.06- 251.06	196.46
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	1293125	57.4390	57.439	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)							
21.849	21.849 (1.051)	91	2628934			160.35- 260.35	203.30
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	2030818	57.9482	57.948	80.00- 120.00	100.00
21.876	21.876 (1.052)	78	1050702			4.10- 104.10	51.74
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	1524043	53.7712	53.771	80.00- 120.00	100.00
22.291	22.291 (1.072)	171	780088			1.60- 101.60	51.19
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	3256092	56.1526	56.153	80.00- 120.00	100.00
22.429	22.429 (1.078)	120	833204			0.00- 75.19	25.59
22.429	22.429 (1.078)	51	403284			0.00- 64.41	12.39
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	2071684	52.4337	52.434	80.00- 120.00	100.00
23.010	23.010 (1.106)	85	1298650			12.15- 112.15	62.69
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	3993219	56.0005	56.000	80.00- 120.00	100.00
23.121	23.121 (1.112)	120	862381			0.00- 70.05	21.60
23.121	23.121 (1.112)	105	155206			0.00- 66.51	3.89
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.286 (1.120)	105	3269608	57.8326	57.833	80.00- 120.00	100.00
23.287	23.314 (1.120)	120	967888			0.00- 79.46	29.60
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	2728735	55.9603	55.960	80.00- 120.00	100.00
23.397	23.397 (1.125)	120	1301582			0.00- 97.91	47.70
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	2408456	57.1036	57.104	80.00- 120.00	100.00
24.033	24.033 (1.156)	120	1092292			0.00- 92.97	45.35
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	1710210	55.8512	55.851	80.00- 120.00	100.00
24.586	24.586 (1.182)	148	1078728			13.45- 113.45	63.08
24.586	24.586 (1.182)	111	715461			0.00- 93.47	41.83
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	1715381	55.0540	55.054	80.00- 120.00	100.00
24.752	24.752 (1.190)	148	1091334			13.03- 113.03	63.62
24.752	24.752 (1.190)	111	688798			0.00- 89.21	40.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.946	24.945 (1.199)	91	2336784	55.4135	55.414	80.00- 120.00	100.00
24.946	24.945 (1.199)	126	455053			0.00- 69.32	19.47
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	1514258	56.9637	56.964	80.00- 120.00	100.00
25.360	25.360 (1.219)	148	960011			13.50- 113.50	63.40
25.360	25.360 (1.219)	111	665959			0.00- 93.85	43.98
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	563899	48.2057	48.206	80.00- 120.00	100.00
28.153	28.153 (1.354)	182	536323			46.65- 146.65	95.11
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	876219	51.1875	51.188	80.00- 120.00	100.00
28.319	28.319 (1.362)	223	556471			12.39- 112.39	63.51
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	2556579	51.1916	51.192	80.00- 120.00	100.00
8.273	8.273 (0.596)	57	1644211			10.13- 110.13	64.31
19 Butane					CAS #: 106-97-8		
6.808	6.807 (0.490)	58	253823	54.0693	54.069	80.00- 120.00	100.00
6.808	6.807 (0.490)	43	2113368			840.77- 940.77	832.61
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	1396866	55.6915	55.691	80.00- 120.00	100.00
16.374	16.374 (1.179)	98	629990			0.00- 93.08	45.10
16.374	16.374 (1.179)	55	1386832			52.63- 152.63	99.28
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	1157621	42.9432	42.943	80.00- 120.00	100.00
28.678	28.678 (1.379)	127	143243			0.00- 62.34	12.37

Report Date: 22-Aug-2007 15:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082213.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 50ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	216677	3.08
97 1,4-Difluorobenze	855220	513132	1197308	896057	4.78
126 Chlorobenzene-d5	776619	465971	1087267	803259	3.43

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

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

Report Date: 22-Aug-2007 15:37

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 22Aug2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	47.855	95.71	70-130
16 Freon 114	50.000	54.874	109.75	70-130
18 Chloromethane	50.000	46.016	92.03	70-130
20 Vinyl Chloride	50.000	50.957	101.91	70-130
22 1,3-Butadiene	50.000	56.646	113.29	60-140
25 Bromomethane	50.000	51.934	103.87	70-130
27 Chloroethane	50.000	51.085	102.17	70-130
31 Trichlorofluoromet	50.000	52.048	104.10	70-130
38 Ethanol	50.000	49.598	99.20	60-140
42 Freon 113	50.000	57.009	114.02	70-130
43 1,1-Dichloroethene	50.000	54.057	108.11	70-130
45 Acetone	50.000	51.046	102.09	60-140
47 Carbon Disulfide	50.000	53.067	106.13	60-140
46 2-Propanol	50.000	52.351	104.70	60-140
54 Methylene Chloride	50.000	50.935	101.87	70-130
60 MTBE	50.000	44.810	89.62	60-140
61 trans-1,2-Dichloro	50.000	53.544	107.09	60-140
65 Hexane	50.000	55.024	110.05	60-140
70 1,1-Dichloroethane	50.000	52.929	105.86	70-130
76 cis-1,2-Dichloroet	50.000	53.424	106.85	70-130
75 2-Butanone	50.000	53.392	106.78	60-140
80 Tetrahydrofuran	50.000	49.487	98.97	60-140
82 Chloroform	50.000	52.616	105.23	70-130
85 Cyclohexane	50.000	57.253	114.51	60-140
83 1,1,1-Trichloroeth	50.000	50.978	101.96	70-130
87 Carbon Tetrachlori	50.000	49.818	99.64	70-130
91 Benzene	50.000	49.914	99.83	70-130
93 1,2-Dichloroethane	50.000	50.916	101.83	70-130
94 Heptane	50.000	54.489	108.98	60-140
101 Trichloroethene	50.000	52.684	105.37	70-130
104 1,2-Dichloropropan	50.000	52.904	105.81	70-130
106 1,4-Dioxane	50.000	51.849	103.70	60-140
107 Bromodichlorometha	50.000	50.348	100.70	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
110 cis-1,3-Dichloropr	50.000	53.915	107.83	70-130
111 4-Methyl-2-pentano	50.000	57.044	114.09	60-140
114 Toluene	50.000	53.874	107.75	70-130
116 trans-1,3-Dichloro	50.000	52.520	105.04	70-130
117 1,1,2-Trichloroeth	50.000	51.616	103.23	70-130
120 Tetrachloroethene	50.000	52.865	105.73	70-130
121 2-Hexanone	50.000	52.641	105.28	60-140
122 Dibromochlorometha	50.000	53.360	106.72	60-140
123 1,2-Dibromoethane	50.000	53.500	107.00	70-130
127 Chlorobenzene	50.000	52.257	104.51	70-130
128 Ethyl Benzene	50.000	54.483	108.97	70-130
129 m,p-Xylene	50.000	56.569	113.14	70-130
130 o-Xylene	50.000	57.439	114.88	70-130
131 Styrene	50.000	57.948	115.90	70-130
133 Bromoform	50.000	53.771	107.54	60-140
140 1,1,2,2-Tetrachlor	50.000	52.434	104.87	70-130
145 4-Ethyltoluene	50.000	57.833	115.67	60-140
147 1,3,5-Trimethylben	50.000	55.960	111.92	70-130
150 1,2,4-Trimethylben	50.000	57.104	114.21	70-130
155 1,3-Dichlorobenzen	50.000	55.851	111.70	70-130
156 1,4-Dichlorobenzen	50.000	55.054	110.11	70-130
159 alpha-Chlorotoluen	50.000	55.414	110.83	70-130
161 1,2-Dichlorobenzen	50.000	56.964	113.93	70-130
165 1,2,4-Trichloroben	50.000	48.206	96.41	70-130
166 Hexachlorobutadien	50.000	51.188	102.38	70-130
142 Propylbenzene	50.000	56.000	112.00	60-140
134 Cumene	50.000	56.153	112.31	60-140
51 3-Chloropropene	50.000	54.426	108.85	60-140
89 2,2,4-Trimethylpen	50.000	57.093	114.19	60-140
19 Butane	50.000	54.069	108.14	70-130
29 Isopentane	50.000	51.192	102.38	70-130
102 Methyl Cyclohexane	50.000	55.691	111.38	70-130
11 Propylene	50.000	48.230	96.46	60-140
167 Naphthalene	50.000	42.943	85.89	60-140

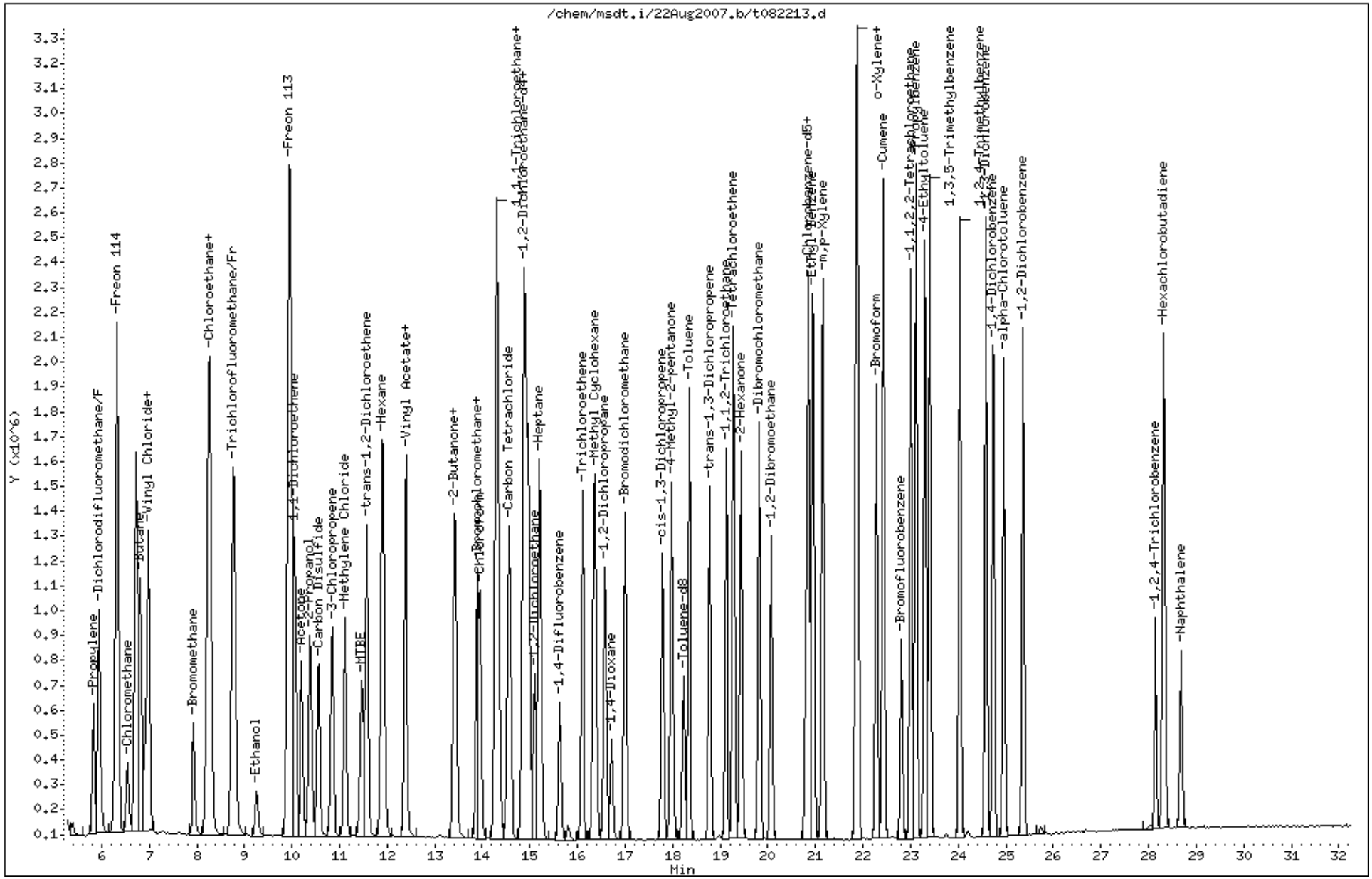
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	22.927	91.71	70-130
$ 113 Toluene-d8	25.000	25.042	100.17	70-130
$ 137 Bromofluorobenzene	25.000	25.724	102.90	70-130

Data File: /chem/msdt.i/22Aug2007.b/t082213.d
Date : 22-AUG-2007 15:13
Client ID: LCS-1
Sample Info: 50mL #1443-164

Instrument: msdt.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082205.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 22-AUG-2007 09:46
Operator : cb Inst ID: msdt.i
Smp Info : 0.2mL #1443-170
Misc Info : 200ppbv --> 0.2ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 12:57 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 09:46 Cal File: t082205.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	
13.886	13.886 (1.000)	130	210438	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	161775			26.88- 126.88	76.88
13.886	13.886 (1.000)	49	404492			142.21- 242.21	192.21
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.628	15.628 (1.000)	114	854277	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	138345			0.00- 66.19	16.19
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	748610	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	462019			11.72- 111.72	61.72
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	382877	25.0000	25.000	50.00- 150.00	100.00
14.964	14.964 (1.078)	67	185230			0.00- 98.38	48.38
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.166)	98	818613	25.0000	25.000	50.00- 150.00	100.00
18.227	18.227 (1.166)	70	98459			0.00- 62.03	12.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	555879			17.90- 117.90	67.90
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	322069	25.0000	25.000	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	459677			92.73- 192.73	142.73
22.789	22.789 (1.096)	176	312550			47.04- 147.04	97.04
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	5328	0.20000	0.2000	50.00- 150.00	100.00(a)
13.969	13.969 (1.006)	85	3830			21.88- 121.88	71.88
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	11516	0.20000	0.2000	50.00- 150.00	100.00(a)
14.964	14.964 (0.958)	77	1924			0.00- 66.71	16.71
131 Styrene					CAS #: 100-42-5		
21.877	21.877 (1.052)	104	5529	0.20000	0.2000	50.00- 150.00	100.00(a)
21.877	21.877 (1.052)	78	4456			30.59- 130.59	80.59
134 Cumene					CAS #: 98-82-8		
22.430	22.430 (1.078)	105	10523	0.20000	0.2000	50.00- 150.00	100.00(a)
22.430	22.430 (1.078)	120	2282			0.00- 71.69	21.69
22.430	22.430 (1.078)	51	2345			0.00- 72.28	22.28

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082205.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 0.2ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	210438	0.11
97 1,4-Difluorobenze	855220	513132	1197308	854277	-0.11
126 Chlorobenzene-d5	776619	465971	1087267	748610	-3.61

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

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

Data File: /chem/msdt.i/22Aug2007.b/t082205.d

Date : 22-AUG-2007 09:46

Client ID: Level 1

Sample Info: 0.2mL #1443-170

Column phase: RTx-624

Instrument: msdt.i

Operator: cb

Column diameter: 0.53

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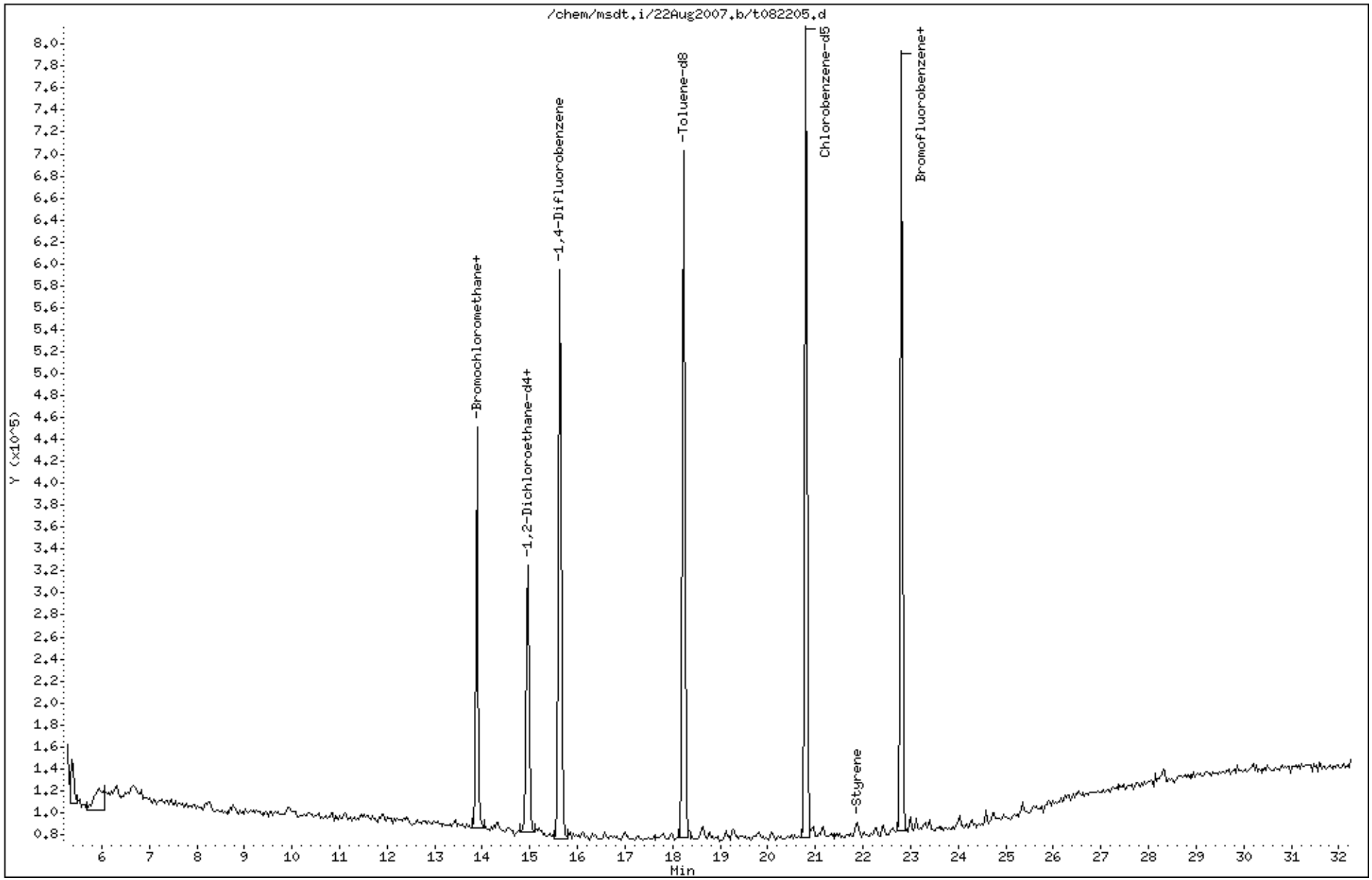


Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082206.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 22-AUG-2007 10:27
Operator : cb Inst ID: msdt.i
Smp Info : 0.5mL #1443-170
Misc Info : 200ppbv --> 0.5ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 12:57 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 10:27 Cal File: t082206.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	198306	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	152501			26.89- 126.89	76.90
13.886	13.886 (1.000)	49	392242			145.01- 245.01	197.80
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.655	15.655 (1.000)	114	807795	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	135794			0.00- 66.50	16.81
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	701598	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	442448			12.39- 112.39	63.06
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	372748	25.0000	25.407	50.00- 150.00	100.00
14.964	14.964 (1.078)	67	175430			0.00- 97.72	47.06
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.164)	98	778904	25.0000	25.078	50.00- 150.00	100.00
18.227	18.227 (1.164)	70	94332			0.00- 62.07	12.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.164)	100	530295			17.99- 117.99	68.08
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	305969	25.0000	25.170	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	426878			91.12- 191.12	139.52
22.789	22.789 (1.096)	176	293777			46.53- 146.53	96.02
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.978	5.978 (0.430)	85	16522	0.50000	0.5000	50.00- 150.00	100.00
5.950	5.950 (0.429)	87	5562			0.00- 83.66	33.66
16 Freon 114					CAS #: 76-14-2		
6.337	6.337 (0.456)	135	14602	0.50000	0.5000	50.00- 150.00	100.00
6.337	6.337 (0.456)	137	3760			0.00- 75.75	25.75
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	6151	0.50000	0.5000	50.00- 150.00	100.00
6.918	6.918 (0.498)	64	7936			79.02- 179.02	129.02
22 1,3-Butadiene					CAS #: 106-99-0		
7.001	7.001 (0.504)	54	8869	0.50000	0.5000	50.00- 150.00	100.00
7.001	7.001 (0.504)	39	13252			99.42- 199.42	149.42
25 Bromomethane					CAS #: 74-83-9		
7.969	7.969 (0.574)	94	5149	0.50000	0.5000	50.00- 150.00	100.00
7.969	7.969 (0.574)	96	6247			71.32- 171.32	121.32
27 Chloroethane					CAS #: 75-00-3		
8.245	8.245 (0.594)	64	2893	0.50000	0.5000	50.00- 150.00	100.00
0.000	1.000 (0.000)	49	0			0.00- 50.00	0.00
8.245	8.245 (0.594)	66	1050			0.00- 86.29	36.29
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.798	8.798 (0.634)	101	25717	0.50000	0.5000	50.00- 150.00	100.00
8.798	8.798 (0.634)	103	18356			21.38- 121.38	71.38
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	18698	0.50000	0.5000	50.00- 150.00	100.00
9.959	9.959 (0.717)	153	11448			11.23- 111.23	61.23
9.959	9.959 (0.717)	101	23287			74.54- 174.54	124.54
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.070	10.070 (0.725)	61	11510	0.50000	0.5000	50.00- 150.00	100.00
10.070	10.070 (0.725)	96	6854			9.55- 109.55	59.55
10.070	10.070 (0.725)	98	3252			0.00- 78.25	28.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 Carbon Disulfide						CAS #: 75-15-0	
10.568	10.568 (0.761)	76	14970	0.50000	0.5000	50.00- 150.00	100.00
54 Methylene Chloride						CAS #: 75-09-2	
11.121	11.121 (0.801)	49	8945	0.50000	0.5000	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	5011			6.02- 106.02	56.02
11.121	11.121 (0.801)	51	4610			1.54- 101.54	51.54
60 MTBE						CAS #: 1634-04-4	
11.480	11.480 (0.827)	73	15441	0.50000	0.5000	50.00- 150.00	100.00
11.480	11.480 (0.827)	57	3266			0.00- 71.15	21.15
11.480	11.480 (0.827)	41	6907			0.00- 94.73	44.73
61 trans-1,2-Dichloroethene						CAS #: 156-60-5	
11.563	11.563 (0.833)	96	6161	0.50000	0.5000	50.00- 150.00	100.00
11.591	11.591 (0.835)	61	8314			84.95- 184.95	134.95
11.591	11.591 (0.835)	98	3583			8.16- 108.16	58.16
65 Hexane						CAS #: 110-54-3	
11.923	11.923 (0.859)	57	10818	0.50000	0.5000	50.00- 150.00	100.00
11.923	11.923 (0.859)	43	9716			39.81- 139.81	89.81
11.923	11.923 (0.859)	86	1091			0.00- 60.09	10.09
70 1,1-Dichloroethane						CAS #: 75-34-3	
12.393	12.393 (0.892)	63	12399	0.50000	0.5000	50.00- 150.00	100.00
12.393	12.393 (0.892)	65	3553			0.00- 78.66	28.66
75 2-Butanone						CAS #: 78-93-3	
13.416	13.416 (0.966)	72	2448	0.50000	0.5000	50.00- 150.00	100.00
13.443	13.443 (0.968)	43	11107			403.72- 503.72	453.72
0.000	1.000 (0.000)	57	0			0.00- 50.00	0.00
76 cis-1,2-Dichloroethene						CAS #: 156-59-2	
13.443	13.443 (0.968)	61	7101	0.50000	0.5000	50.00- 150.00	100.00
13.443	13.443 (0.968)	96	5157			22.62- 122.62	72.62
13.443	13.443 (0.968)	98	3014			0.00- 92.44	42.44
80 Tetrahydrofuran						CAS #: 109-99-9	
13.886	13.886 (1.000)	42	9041	0.50000	0.5000	50.00- 150.00	100.00
13.886	13.886 (1.000)	71	1834			0.00- 70.29	20.29
13.913	13.913 (1.002)	72	1755			0.00- 69.41	19.41
82 Chloroform						CAS #: 67-66-3	
13.969	13.969 (1.006)	83	10401	0.50000	0.4531	50.00- 150.00	100.00(a)
13.969	13.969 (1.006)	85	7233			20.71- 120.71	69.54

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	
14.300	14.300 (1.030)	97	13208	0.50000	0.5000	50.00- 150.00	100.00
14.300	14.300 (1.030)	99	8573			14.91- 114.91	64.91
85 Cyclohexane						CAS #: 110-82-7	
14.328	14.328 (1.032)	84	6387	0.50000	0.5000	50.00- 150.00	100.00
14.300	14.300 (1.030)	56	10028			107.01- 207.01	157.01
14.328	14.328 (1.032)	41	8397			81.47- 181.47	131.47
87 Carbon Tetrachloride						CAS #: 56-23-5	
14.549	14.549 (1.048)	119	11827	0.50000	0.5000	50.00- 150.00	100.00
14.549	14.549 (1.048)	117	11669			48.66- 148.66	98.66
91 Benzene						CAS #: 71-43-2	
14.992	14.992 (0.958)	78	15004	0.50000	0.3553	50.00- 150.00	100.00(a)
14.964	14.964 (0.956)	77	4218			0.00- 72.41	28.11
89 2,2,4-Trimethylpentane						CAS #: 540-84-1	
14.881	14.881 (1.072)	57	29430	0.50000	0.5000	50.00- 150.00	100.00
14.909	14.909 (1.074)	56	12115			0.00- 91.17	41.17
14.909	14.909 (1.074)	41	13405			0.00- 95.55	45.55
93 1,2-Dichloroethane						CAS #: 107-06-2	
15.102	15.102 (0.965)	62	7610	0.50000	0.5000	50.00- 150.00	100.00
15.102	15.102 (0.965)	64	2800			0.00- 86.79	36.79
94 Heptane						CAS #: 142-82-5	
15.185	15.185 (0.970)	71	4361	0.50000	0.5000	50.00- 150.00	100.00
15.213	15.213 (0.972)	43	10878			199.44- 299.44	249.44
15.213	15.213 (0.972)	57	5239			70.13- 170.13	120.13
101 Trichloroethene						CAS #: 79-01-6	
16.098	16.098 (1.028)	95	6035	0.50000	0.5000	50.00- 150.00	100.00
16.098	16.098 (1.028)	130	5514			41.37- 141.37	91.37
16.098	16.098 (1.028)	97	4165			19.01- 119.01	69.01
104 1,2-Dichloropropane						CAS #: 78-87-5	
16.595	16.595 (1.060)	63	5547	0.50000	0.5000	50.00- 150.00	100.00
16.595	16.595 (1.060)	62	3951			21.23- 121.23	71.23
16.595	16.595 (1.060)	41	6127			60.46- 160.46	110.46
107 Bromodichloromethane						CAS #: 75-27-4	
17.010	17.010 (1.087)	83	11986	0.50000	0.5000	50.00- 150.00	100.00
17.010	17.010 (1.087)	85	6654			5.51- 105.51	55.51
110 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
17.812	17.812 (1.138)	75	7379	0.50000	0.5000	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
110 cis-1,3-Dichloropropene (continued)							
17.812	17.812 (1.138)	77	2513			0.00- 84.06	34.06
17.784	17.784 (1.136)	39	5979			31.03- 131.03	81.03
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.148)	58	4009	0.50000	0.5000	50.00- 150.00	100.00
17.978	17.978 (1.148)	43	11319			232.34- 332.34	282.34
18.005	18.005 (1.150)	85	1219			0.00- 80.41	30.41
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.171)	91	16380	0.50000	0.5000	50.00- 150.00	100.00
18.337	18.337 (1.171)	92	11328			19.16- 119.16	69.16
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	7375	0.50000	0.5000	50.00- 150.00	100.00
18.780	18.780 (0.903)	77	3399			0.00- 96.09	46.09
18.780	18.780 (0.903)	39	6448			37.43- 137.43	87.43
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	5573	0.50000	0.5000	50.00- 150.00	100.00
19.111	19.111 (0.919)	99	4052			22.71- 122.71	72.71
19.111	19.111 (0.919)	83	5308			45.24- 145.24	95.24
120 Tetrachloroethene					CAS #: 127-18-4		
19.305	19.305 (0.928)	166	7385	0.50000	0.5000	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	6272			34.93- 134.93	84.93
19.277	19.277 (0.927)	131	6198			33.93- 133.93	83.93
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	9184	0.50000	0.5000	50.00- 150.00	100.00
19.803	19.803 (0.952)	127	7900			36.02- 136.02	86.02
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	8920	0.50000	0.5000	50.00- 150.00	100.00
20.079	20.079 (0.965)	109	9575			57.34- 157.34	107.34
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	13374	0.50000	0.5000	50.00- 150.00	100.00
20.853	20.853 (1.003)	114	5658			0.00- 92.31	42.31
20.853	20.853 (1.003)	77	15395			65.11- 165.11	115.11
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	6609	0.50000	0.5000	50.00- 150.00	100.00
20.936	20.936 (1.007)	91	20846			265.42- 365.42	315.42
129 m,p-Xylene					CAS #: 108-38-3		
21.157	21.157 (1.017)	106	6823	0.50000	0.5000	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
129 m,p-Xylene (continued)							
21.157	21.157 (1.017)	91	13432			146.86- 246.86	196.86
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	6176	0.50000	0.5000	50.00- 150.00	100.00
21.849	21.849 (1.051)	91	15435			199.92- 299.92	249.92
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	9620	0.50000	0.4261	50.00- 150.00	100.00(a)
21.876	21.876 (1.052)	78	6448			23.81- 123.81	67.03
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	7538	0.50000	0.5000	50.00- 150.00	100.00
22.291	22.291 (1.072)	171	4106			4.47- 104.47	54.47
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	16638	0.50000	0.4029	50.00- 150.00	100.00(a)
22.429	22.429 (1.078)	120	4543			0.00- 74.50	27.30
22.429	22.429 (1.078)	51	2133			0.00- 67.55	12.82
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	13077	0.50000	0.5000	50.00- 150.00	100.00
23.010	23.010 (1.106)	85	7968			10.93- 110.93	60.93
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	20175	0.50000	0.5000	50.00- 150.00	100.00
23.121	23.121 (1.112)	120	3407			0.00- 66.89	16.89
23.314	23.314 (1.121)	105	13669			17.75- 117.75	67.75
145 4-Ethyltoluene					CAS #: 622-96-8		
23.314	23.314 (1.121)	105	13669	0.50000	0.5000	50.00- 150.00	100.00
23.286	23.286 (1.120)	120	4527			0.00- 83.12	33.12
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	12419	0.50000	0.5000	50.00- 150.00	100.00
23.397	23.397 (1.125)	120	6480			2.18- 102.18	52.18
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	11493	0.50000	0.5000	50.00- 150.00	100.00
24.033	24.033 (1.156)	120	4282			0.00- 87.26	37.26
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	9253	0.50000	0.5000	50.00- 150.00	100.00
24.586	24.586 (1.182)	148	6017			15.03- 115.03	65.03
24.586	24.586 (1.182)	111	4129			0.00- 94.62	44.62

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		
24.752	24.752 (1.190)	146	10380	0.50000	0.5000	50.00- 150.00	100.00
24.752	24.752 (1.190)	148	6677			14.33- 114.33	64.33
24.752	24.752 (1.190)	111	3573			0.00- 84.42	34.42
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	12957	0.50000	0.5000	50.00- 150.00	100.00
24.945	24.945 (1.199)	126	2397			0.00- 68.50	18.50
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	7573	0.50000	0.5000	50.00- 150.00	100.00
25.360	25.360 (1.219)	148	5552			23.31- 123.31	73.31
25.360	25.360 (1.219)	111	3777			0.00- 99.87	49.87
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.346	16.346 (1.177)	83	6864	0.50000	0.5000	50.00- 150.00	100.00
16.374	16.374 (1.179)	98	2579			0.00- 87.57	37.57
16.374	16.374 (1.179)	55	7747			62.86- 162.86	112.86

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: msdt.i
Lab File ID: t082206.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 0.5ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	198306	-5.66
97 1,4-Difluorobenze	855220	513132	1197308	807795	-5.55
126 Chlorobenzene-d5	776619	465971	1087267	701598	-9.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.66	0.18
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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

Data File: /chem/msdt.i/22Aug2007.b/t082206.d

Date : 22-AUG-2007 10:27

Client ID: Level 2

Sample Info: 0.5mL #1443-170

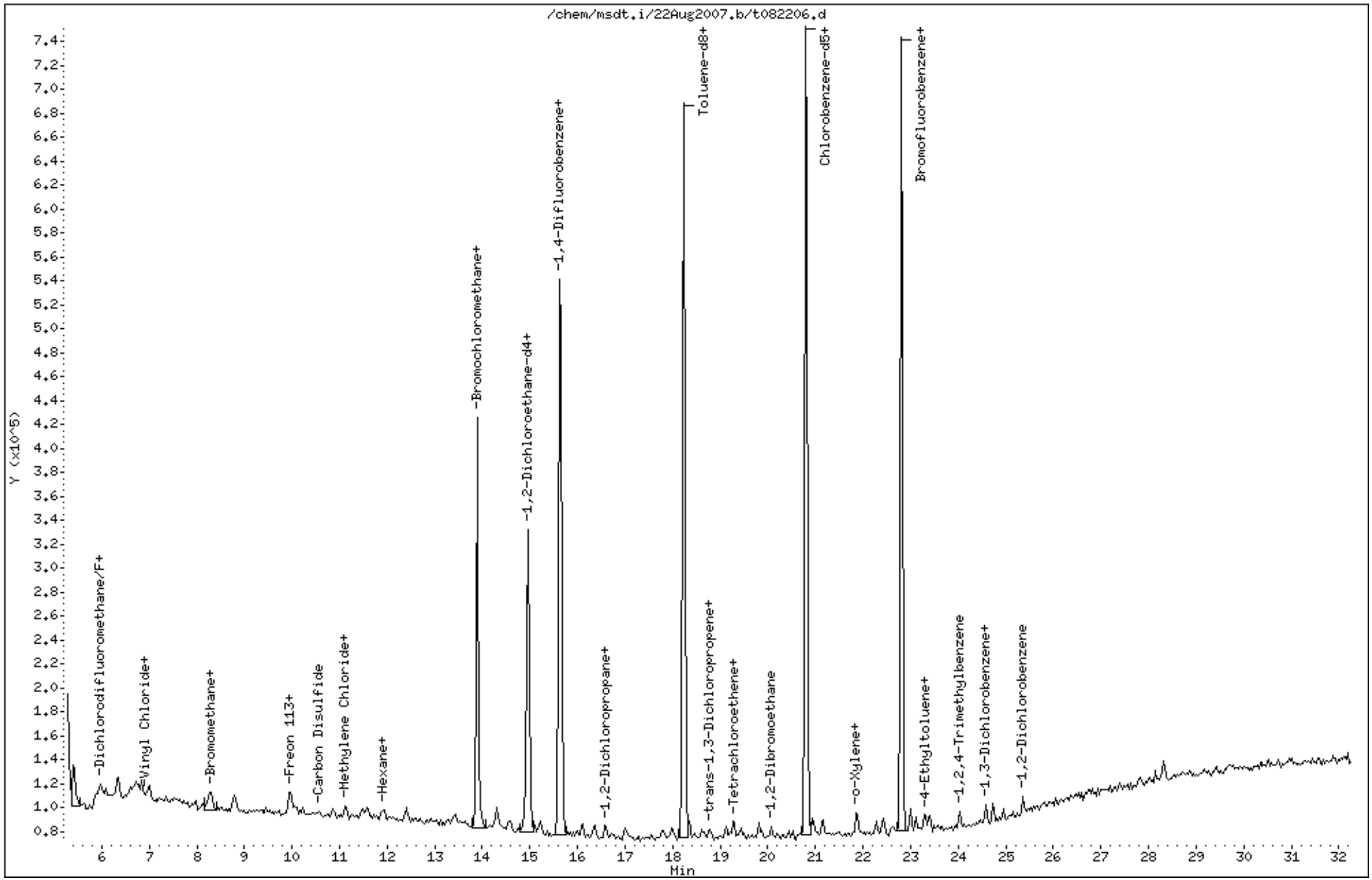
Column phase: RTx-624

Instrument: msdt.i

Operator: cb

Column diameter: 0.53

0090



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082207.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 22-AUG-2007 11:09
Operator : cb Inst ID: msdt.i
Smp Info : 2mL #1443-170
Misc Info : 200ppbv --> 2ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 12:57 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 11:09 Cal File: t082207.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	190815	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	150222			27.50- 127.50	78.73
13.886	13.886 (1.000)	49	379956			146.38- 246.38	199.12
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.628	15.628 (1.000)	114	788876	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	129191			0.00- 66.46	16.38
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	681656	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	432909			12.76- 112.76	63.51
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	377102	25.0000	26.116	50.00- 150.00	100.00
14.964	14.964 (1.078)	67	178534			0.00- 97.60	47.34
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.166)	98	759199	25.0000	25.020	50.00- 150.00	100.00
18.227	18.227 (1.166)	70	94677			0.00- 62.20	12.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	522727			18.28- 118.28	68.85
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	292222	25.0000	24.827	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	428571			92.97- 192.97	146.66
22.789	22.789 (1.096)	176	282161			46.54- 146.54	96.56
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	20623	2.00000	2.000	50.00- 150.00	100.00
5.840	5.840 (0.421)	42	18045			37.50- 137.50	87.50
5.840	5.840 (0.421)	39	18076			37.65- 137.65	87.65
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	71594	2.00000	2.118	50.00- 150.00	100.00
5.950	5.950 (0.429)	87	23423			0.00- 83.19	32.72
16 Freon 114					CAS #: 76-14-2		
6.337	6.337 (0.456)	135	49497	2.00000	1.873	50.00- 150.00	100.00
6.337	6.337 (0.456)	137	14735			0.00- 77.76	29.77
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	28164	2.00000	2.000	50.00- 150.00	100.00
6.586	6.586 (0.474)	52	9594			0.00- 84.06	34.06
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	27627	2.00000	2.154	50.00- 150.00	100.00
6.918	6.918 (0.498)	64	15173			41.97- 141.97	54.92
22 1,3-Butadiene					CAS #: 106-99-0		
7.001	7.001 (0.504)	54	28657	2.00000	1.825	50.00- 150.00	100.00
7.001	7.001 (0.504)	39	34334			84.61- 184.61	119.81
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	21102	2.00000	2.063	50.00- 150.00	100.00
7.941	7.941 (0.572)	96	22690			64.42- 164.42	107.53
27 Chloroethane					CAS #: 75-00-3		
8.218	8.218 (0.592)	64	13844	2.00000	2.217	50.00- 150.00	100.00
8.218	8.218 (0.592)	49	4241			0.00- 80.63	30.63
8.245	8.245 (0.594)	66	3599			0.00- 81.15	26.00
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.798	8.798 (0.634)	101	107280	2.00000	2.080	50.00- 150.00	100.00
8.798	8.798 (0.634)	103	68032			17.40- 117.40	63.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.268	9.268 (0.667)	45	13615	2.00000	2.000	50.00- 150.00	100.00
9.268	9.268 (0.667)	43	4821			0.00- 85.41	35.41
9.268	9.268 (0.667)	46	3706			0.00- 77.22	27.22
42 Freon 113					CAS #: 76-13-1		
9.960	9.960 (0.717)	151	71249	2.00000	1.990	50.00- 150.00	100.00
9.960	9.960 (0.717)	153	45657			12.65- 112.65	64.08
9.960	9.960 (0.717)	101	99682			82.22- 182.22	139.91
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.043	10.043 (0.723)	61	43082	2.00000	1.972	50.00- 150.00	100.00
10.070	10.070 (0.725)	96	23254			6.76- 106.76	53.98
10.043	10.043 (0.723)	98	13801			0.00- 80.14	32.03
45 Acetone					CAS #: 67-64-1		
10.236	10.236 (0.737)	58	17056	2.00000	2.000	50.00- 150.00	100.00
10.236	10.236 (0.737)	43	50470			245.91- 345.91	295.91
46 2-Propanol					CAS #: 67-63-0		
10.402	10.402 (0.749)	45	55384	2.00000	2.000	50.00- 150.00	100.00
10.402	10.402 (0.749)	43	21119			0.00- 88.13	38.13
10.402	10.402 (0.749)	59	1587			0.00- 52.87	2.87
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	61892	2.00000	2.072	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	9109	2.00000	2.000	50.00- 150.00	100.00
10.844	10.844 (0.781)	41	37972			366.86- 466.86	416.86
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	35403	2.00000	2.028	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	18270			3.81- 103.81	51.61
11.121	11.121 (0.801)	51	9593			0.00- 89.32	27.10
60 MTBE					CAS #: 1634-04-4		
11.480	11.480 (0.827)	73	44858	2.00000	1.720	50.00- 150.00	100.00
11.453	11.453 (0.825)	57	10890			0.00- 72.71	24.28
11.480	11.480 (0.827)	41	17359			0.00- 91.71	38.70
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	24813	2.00000	2.045	50.00- 150.00	100.00
11.563	11.563 (0.833)	61	39756			97.58- 197.58	160.22
11.563	11.563 (0.833)	98	13750			6.79- 106.79	55.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.923	11.923 (0.859)	57	48094	2.00000	2.144	50.00- 150.00	100.00
11.923	11.923 (0.859)	43	37456			33.85- 133.85	77.88
11.923	11.923 (0.859)	86	5414			0.00- 60.67	11.26
69 Vinyl Acetate					CAS #: 108-05-4		
12.393	12.393 (0.892)	86	3760	2.00000	2.000	50.00- 150.00	100.00
12.393	12.393 (0.892)	43	75408			1955.53-2055.53	2005.53
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	49245	2.00000	2.031	50.00- 150.00	100.00
12.393	12.393 (0.892)	65	16503			0.00- 81.08	33.51
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	9827	2.00000	2.042	50.00- 150.00	100.00
13.416	13.416 (0.966)	43	56774			465.73- 565.73	577.73
13.443	13.443 (0.968)	57	3030			0.00- 80.83	30.83
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	32939	2.00000	2.186	50.00- 150.00	100.00
13.443	13.443 (0.968)	96	22675			20.73- 120.73	68.84
13.443	13.443 (0.968)	98	14587			0.00- 93.36	44.28
80 Tetrahydrofuran					CAS #: 109-99-9		
13.886	13.886 (1.000)	42	30591	2.00000	1.871	50.00- 150.00	100.00
13.886	13.886 (1.000)	71	9752			0.00- 76.08	31.88
13.886	13.886 (1.000)	72	9525			0.00- 75.27	31.14
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	51368	2.00000	2.206	50.00- 150.00	100.00
13.969	13.969 (1.006)	85	34312			19.41- 119.41	66.80
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.301	14.301 (1.030)	97	62006	2.00000	2.198	50.00- 150.00	100.00
14.301	14.301 (1.030)	99	37863			12.99- 112.99	61.06
85 Cyclohexane					CAS #: 110-82-7		
14.328	14.328 (1.032)	84	28987	2.00000	2.164	50.00- 150.00	100.00
14.328	14.328 (1.032)	56	43230			103.07- 203.07	149.14
14.301	14.301 (1.030)	41	30225			67.87- 167.87	104.27
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	56830	2.00000	2.221	50.00- 150.00	100.00
14.549	14.549 (1.048)	117	56366			48.92- 148.92	99.18
91 Benzene					CAS #: 71-43-2		
14.992	14.992 (0.959)	78	68951	2.00000	1.769	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.992	14.992 (0.959)	77	14634			0.00- 72.01	21.22
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	138149	2.00000	2.198	50.00- 150.00	100.00
14.909	14.909 (1.074)	56	48776			0.00- 88.24	35.31
14.881	14.881 (1.072)	41	47201			0.00- 89.86	34.17
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	40020	2.00000	2.295	50.00- 150.00	100.00
15.102	15.102 (0.966)	64	13653			0.00- 85.45	34.12
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	20115	2.00000	2.166	50.00- 150.00	100.00
15.185	15.185 (0.972)	43	45615			188.10- 288.10	226.77
15.213	15.213 (0.973)	57	23673			68.91- 168.91	117.69
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	29344	2.00000	2.218	50.00- 150.00	100.00
16.098	16.098 (1.030)	130	27262			42.14- 142.14	92.90
16.098	16.098 (1.030)	97	19290			17.38- 117.38	65.74
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.595	16.595 (1.062)	63	28398	2.00000	2.269	50.00- 150.00	100.00
16.568	16.568 (1.060)	62	21102			22.77- 122.77	74.31
16.568	16.568 (1.060)	41	24465			48.30- 148.30	86.15
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	12714	2.00000	2.000	50.00- 150.00	100.00
16.706	16.706 (1.069)	58	10738			34.46- 134.46	84.46
16.706	16.706 (1.069)	57	4412			0.00- 84.70	34.70
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	55448	2.00000	2.169	50.00- 150.00	100.00
17.010	17.010 (1.088)	85	34543			8.91- 108.91	62.30
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	33191	2.00000	2.141	50.00- 150.00	100.00
17.784	17.784 (1.138)	77	11830			0.00- 84.85	35.64
17.784	17.784 (1.138)	39	27239			31.55- 131.55	82.07
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	18073	2.00000	2.143	50.00- 150.00	100.00
17.978	17.978 (1.150)	43	53635			239.55- 339.55	296.77
18.006	18.006 (1.152)	85	6556			0.00- 83.34	36.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	71720	2.00000	2.114	50.00- 150.00	100.00
18.337	18.337 (1.173)	92	46096			16.71- 116.71	64.27
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	39241	2.00000	2.312	50.00- 150.00	100.00
18.780	18.780 (0.903)	77	13532			0.00- 90.29	34.48
18.780	18.780 (0.903)	39	27756			29.08- 129.08	70.73
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.112	19.112 (0.919)	97	31965	2.00000	2.384	50.00- 150.00	100.00
19.112	19.112 (0.919)	99	19766			17.27- 117.27	61.84
19.112	19.112 (0.919)	83	26198			38.60- 138.60	81.96
120 Tetrachloroethene					CAS #: 127-18-4		
19.305	19.305 (0.928)	166	36887	2.00000	2.250	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	26741			28.71- 128.71	72.49
19.277	19.277 (0.927)	131	26562			27.97- 127.97	72.01
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	22980	2.00000	2.000	50.00- 150.00	100.00
19.443	19.443 (0.935)	43	51553			174.34- 274.34	224.34
19.443	19.443 (0.935)	100	2840			0.00- 62.36	12.36
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	49741	2.00000	2.329	50.00- 150.00	100.00
19.803	19.803 (0.952)	127	38040			31.25- 131.25	76.48
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	47241	2.00000	2.307	50.00- 150.00	100.00
20.079	20.079 (0.965)	109	45242			51.56- 151.56	95.77
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	71453	2.00000	2.316	50.00- 150.00	100.00
20.853	20.853 (1.003)	114	21512			0.00- 86.21	30.11
20.853	20.853 (1.003)	77	51880			43.86- 143.86	72.61
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	31386	2.00000	2.200	50.00- 150.00	100.00
20.964	20.964 (1.008)	91	96139			260.87- 360.87	306.31
129 m,p-Xylene					CAS #: 108-38-3		
21.158	21.158 (1.017)	106	36274	2.00000	2.311	50.00- 150.00	100.00
21.158	21.158 (1.017)	91	72534			148.41- 248.41	199.96
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	31552	2.00000	2.272	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)							
21.849	21.849 (1.051)	91	70862			187.25- 287.25	224.59
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	44149	2.00000	2.008	50.00- 150.00	100.00
21.876	21.876 (1.052)	78	27959			20.32- 120.32	63.33
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	45811	2.00000	2.440	50.00- 150.00	100.00
22.291	22.291 (1.072)	171	22320			1.60- 101.60	48.72
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	81801	2.00000	2.026	50.00- 150.00	100.00
22.429	22.429 (1.078)	120	20311			0.00- 74.61	24.83
22.429	22.429 (1.078)	51	10791			0.00- 66.10	13.19
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	63617	2.00000	2.224	50.00- 150.00	100.00
23.010	23.010 (1.106)	85	40147			12.02- 112.02	63.11
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	96276	2.00000	2.204	50.00- 150.00	100.00
23.121	23.121 (1.112)	120	19209			0.00- 68.42	19.95
23.121	23.121 (1.112)	105	3523			0.00- 85.71	3.66
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.287 (1.120)	105	75131	2.00000	2.343	50.00- 150.00	100.00
23.287	23.287 (1.120)	120	22874			0.00- 81.78	30.45
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	74504	2.00000	2.427	50.00- 150.00	100.00
23.397	23.397 (1.125)	120	33822			0.00- 98.79	45.40
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	56027	2.00000	2.226	50.00- 150.00	100.00
24.033	24.033 (1.156)	120	22867			0.00- 89.04	40.81
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	47005	2.00000	2.266	50.00- 150.00	100.00
24.586	24.586 (1.182)	148	28896			13.25- 113.25	61.47
24.586	24.586 (1.182)	111	20989			0.00- 94.64	44.65
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	46038	2.00000	2.132	50.00- 150.00	100.00
24.752	24.752 (1.190)	148	28312			12.91- 112.91	61.50
24.724	24.724 (1.189)	111	18079			0.00- 86.85	39.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.946	24.946 (1.199)	91	52104	2.00000	2.034	50.00- 150.00	100.00
24.946	24.946 (1.199)	126	11679			0.00- 70.46	22.41
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	37013	2.00000	2.228	50.00- 150.00	100.00
25.360	25.360 (1.219)	148	25717			21.40- 121.40	69.48
25.360	25.360 (1.219)	111	18806			0.34- 100.34	50.81
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	17918	2.00000	2.000	50.00- 150.00	100.00
28.153	28.153 (1.354)	182	19841			60.73- 160.73	110.73
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	30528	2.00000	2.000	50.00- 150.00	100.00
28.319	28.319 (1.362)	223	18907			11.93- 111.93	61.93
19 Butane					CAS #: 106-97-8		
6.835	6.835 (0.492)	58	6339	2.00000	2.000	50.00- 150.00	100.00
6.835	6.835 (0.492)	43	61261			916.41-1016.41	966.41
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	75735	2.00000	2.000	50.00- 150.00	100.00
8.273	8.273 (0.596)	57	43109			6.92- 106.92	56.92
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	34912	2.00000	2.277	50.00- 150.00	100.00
16.374	16.374 (1.179)	98	15226			0.00- 90.59	43.61
16.374	16.374 (1.179)	55	35566			57.37- 157.37	101.87
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	44992	2.00000	2.000	50.00- 150.00	100.00
28.678	28.678 (1.379)	127	5706			0.00- 62.68	12.68

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082207.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 2ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	190815	-9.22
97 1,4-Difluorobenze	855220	513132	1197308	788876	-7.76
126 Chlorobenzene-d5	776619	465971	1087267	681656	-12.23

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

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

Data File: /chem/msdt.i/22Aug2007.b/t082207.d

Date : 22-AUG-2007 11:09

Client ID: Level 3

Sample Info: 2mL #1443-170

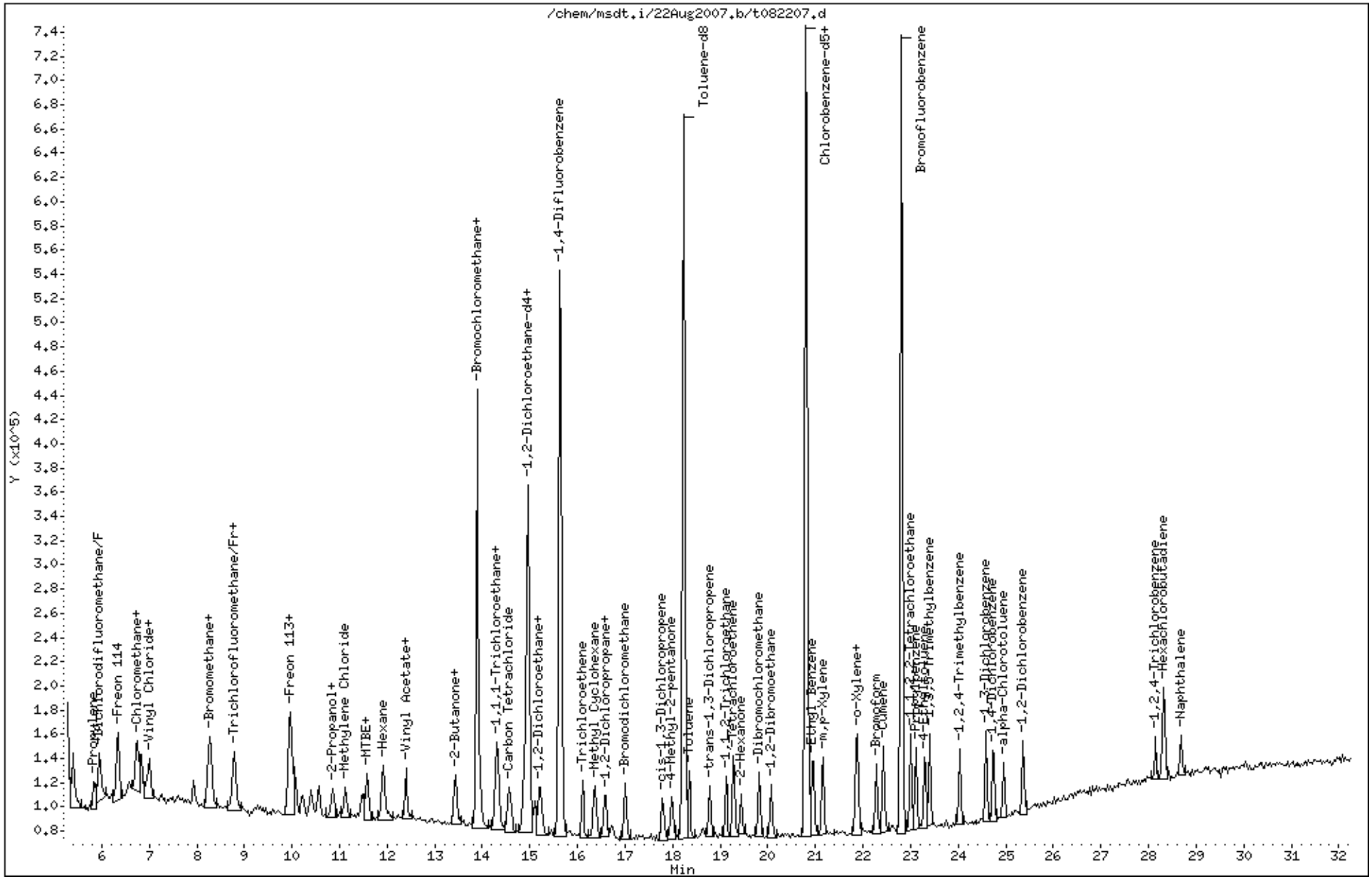
Column phase: RTx-624

Instrument: msdt.i

Operator: cb

Column diameter: 0.53

0100



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082208.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 22-AUG-2007 11:50
Operator : cb Inst ID: msdt.i
Smp Info : 25mL #1443-170
Misc Info : 200ppbv --> 25ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 12:57 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 11:50 Cal File: t082208.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	208401	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	157261			26.99- 126.99	75.46
13.886	13.886 (1.000)	49	500578			157.33- 257.33	240.20
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.628	15.628 (1.000)	114	845167	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	135532			0.00- 66.35	16.04
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	733481	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	461548			12.80- 112.80	62.93
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	396362	25.0000	25.100	50.00- 150.00	100.00
14.964	14.964 (1.078)	67	209959			0.00- 98.94	52.97
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.166)	98	822382	25.0000	25.222	50.00- 150.00	100.00
18.227	18.227 (1.166)	70	97209			0.00- 62.11	11.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	557937			18.17- 118.17	67.84
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	348759	25.0000	26.856	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	508490			93.68- 193.68	145.80
22.789	22.789 (1.096)	176	334256			46.36- 146.36	95.84
11 Propylene					CAS #: 115-07-1		
5.812	5.812 (0.419)	41	304046	25.0000	25.960	50.00- 150.00	100.00
5.812	5.812 (0.419)	42	213496			28.86- 128.86	70.22
5.812	5.812 (0.419)	39	239130			33.15- 133.15	78.65
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	1065247	25.0000	27.447	50.00- 150.00	100.00
5.950	5.950 (0.429)	87	351448			0.00- 83.12	32.99
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	1164890	25.0000	33.501	50.00- 150.00	100.00
6.310	6.310 (0.454)	137	364437			0.00- 78.93	31.29
18 Chloromethane					CAS #: 74-87-3		
6.531	6.531 (0.470)	50	363289	25.0000	24.291	50.00- 150.00	100.00
6.531	6.531 (0.470)	52	113095			0.00- 82.60	31.13
20 Vinyl Chloride					CAS #: 75-01-4		
6.890	6.890 (0.496)	62	407993	25.0000	27.608	50.00- 150.00	100.00
6.890	6.890 (0.496)	64	131643			22.07- 122.07	32.27
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	720753	25.0000	34.256	50.00- 150.00	100.00
6.973	6.973 (0.502)	39	796525			76.58- 176.58	110.51
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	333200	25.0000	28.021	50.00- 150.00	100.00
7.941	7.941 (0.572)	96	312510			57.55- 157.55	93.79
27 Chloroethane					CAS #: 75-00-3		
8.190	8.190 (0.590)	64	209629	25.0000	28.552	50.00- 150.00	100.00
8.190	8.190 (0.590)	49	72596			0.00- 82.63	34.63
8.190	8.190 (0.590)	66	67221			0.00- 81.45	32.07
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.771 (0.632)	101	2206561	25.0000	32.950	50.00- 150.00	100.00
8.771	8.771 (0.632)	103	1419372			16.37- 116.37	64.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.241 (0.665)	45	321812	25.0000	31.694	50.00- 150.00	100.00
9.241	9.241 (0.665)	43	79186			0.00- 80.01	24.61
9.241	9.241 (0.665)	46	121862			0.00- 82.54	37.87
42 Freon 113					CAS #: 76-13-1		
9.932	9.932 (0.715)	151	1282915	25.0000	29.714	50.00- 150.00	100.00
9.932	9.932 (0.715)	153	828503			13.30- 113.30	64.58
9.932	9.932 (0.715)	101	1792452			84.72- 184.72	139.72
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	892208	25.0000	32.091	50.00- 150.00	100.00
10.042	10.042 (0.723)	96	434816			4.09- 104.09	48.73
10.042	10.042 (0.723)	98	275118			0.00- 80.37	30.84
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	277829	25.0000	27.202	50.00- 150.00	100.00
10.208	10.208 (0.735)	43	1090739			294.25- 394.25	392.59
46 2-Propanol					CAS #: 67-63-0		
10.374	10.374 (0.747)	45	1337687	25.0000	31.944	50.00- 150.00	100.00
10.374	10.374 (0.747)	43	303903			0.00- 80.43	22.72
10.374	10.374 (0.747)	59	45549			0.00- 53.14	3.41
47 Carbon Disulfide					CAS #: 75-15-0		
10.540	10.540 (0.759)	76	1099554	25.0000	30.195	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	185929	25.0000	29.961	50.00- 150.00	100.00
10.817	10.817 (0.779)	41	757403			362.11- 462.11	407.36
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	615303	25.0000	29.419	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	341379			4.37- 104.37	55.48
11.121	11.121 (0.801)	51	191310			0.00- 86.58	31.09
60 MTBE					CAS #: 1634-04-4		
11.453	11.453 (0.825)	73	1015967	25.0000	31.232	50.00- 150.00	100.00
11.453	11.453 (0.825)	57	251521			0.00- 73.39	24.76
11.453	11.453 (0.825)	41	319412			0.00- 88.29	31.44
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	429830	25.0000	29.513	50.00- 150.00	100.00
11.563	11.563 (0.833)	61	754546			106.90- 206.90	175.55
11.563	11.563 (0.833)	98	278414			9.45- 109.45	64.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.895 (0.857)	57	1013302	25.0000	33.953	50.00- 150.00	100.00
11.895	11.895 (0.857)	43	724103			29.72- 129.72	71.46
11.923	11.923 (0.859)	86	118935			0.00- 61.03	11.74
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.365 (0.890)	86	93675	25.0000	32.300	50.00- 150.00	100.00
12.365	12.365 (0.890)	43	1522110			1765.21-1865.21	1624.88
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	957155	25.0000	31.472	50.00- 150.00	100.00
12.393	12.393 (0.892)	65	295538			0.00- 81.01	30.88
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	192647	25.0000	31.724	50.00- 150.00	100.00
13.416	13.416 (0.966)	43	1087689			482.02- 582.02	564.60
13.416	13.416 (0.966)	57	75396			0.00- 84.99	39.14
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	602899	25.0000	31.716	50.00- 150.00	100.00
13.443	13.443 (0.968)	96	377222			18.01- 118.01	62.57
13.443	13.443 (0.968)	98	243507			0.00- 92.37	40.39
80 Tetrahydrofuran					CAS #: 109-99-9		
13.886	13.886 (1.000)	42	562932	25.0000	29.005	50.00- 150.00	100.00
13.886	13.886 (1.000)	71	171608			0.00- 77.55	30.48
13.886	13.886 (1.000)	72	191594			0.00- 78.19	34.04
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	910309	25.0000	32.307	50.00- 150.00	100.00
13.969	13.969 (1.006)	85	574661			17.84- 117.84	63.13
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	1134487	25.0000	31.808	50.00- 150.00	100.00
14.300	14.300 (1.030)	99	727887			13.38- 113.38	64.16
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	626473	25.0000	34.604	50.00- 150.00	100.00
14.300	14.300 (1.030)	56	895685			99.70- 199.70	142.97
14.300	14.300 (1.030)	41	560285			58.39- 158.39	89.43
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	1019120	25.0000	31.631	50.00- 150.00	100.00
14.549	14.549 (1.048)	117	1048342			50.24- 150.24	102.87
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	1171430	25.0000	27.218	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.964	14.964 (0.958)	77	259719			0.00- 72.05	22.17
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	3044116	25.0000	35.252	50.00- 150.00	100.00
14.881	14.881 (1.072)	56	1048755			0.00- 86.97	34.45
14.881	14.881 (1.072)	41	930302			0.00- 86.76	30.56
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	649704	25.0000	30.767	50.00- 150.00	100.00
15.102	15.102 (0.966)	64	199649			0.00- 83.88	30.73
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	404110	25.0000	33.615	50.00- 150.00	100.00
15.185	15.185 (0.972)	43	901447			183.09- 283.09	223.07
15.185	15.185 (0.972)	57	460845			67.29- 167.29	114.04
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	479945	25.0000	30.284	50.00- 150.00	100.00
16.098	16.098 (1.030)	130	432197			41.44- 141.44	90.05
16.098	16.098 (1.030)	97	310057			16.45- 116.45	64.60
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	467053	25.0000	30.794	50.00- 150.00	100.00
16.568	16.568 (1.060)	62	341413			22.88- 122.88	73.10
16.568	16.568 (1.060)	41	340327			39.82- 139.82	72.87
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	269451	25.0000	30.639	50.00- 150.00	100.00
16.706	16.706 (1.069)	58	221562			33.34- 133.34	82.23
16.706	16.706 (1.069)	57	75739			0.00- 81.41	28.11
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	902723	25.0000	29.795	50.00- 150.00	100.00
17.010	17.010 (1.088)	85	568391			10.26- 110.26	62.96
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	622493	25.0000	32.131	50.00- 150.00	100.00
17.784	17.784 (1.138)	77	206208			0.00- 84.27	33.13
17.784	17.784 (1.138)	39	418547			26.78- 126.78	67.24
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	404809	25.0000	35.445	50.00- 150.00	100.00
17.978	17.978 (1.150)	43	1137186			236.68- 336.68	280.92
17.978	17.978 (1.150)	85	138838			0.00- 83.66	34.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	1230701	25.0000	30.282	50.00- 150.00	100.00
18.337	18.337 (1.173)	92	776175			15.50- 115.50	63.07
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	696887	25.0000	32.460	50.00- 150.00	100.00
18.780	18.780 (0.903)	77	223163			0.00- 87.53	32.02
18.780	18.780 (0.903)	39	432195			23.39- 123.39	62.02
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	486078	25.0000	30.195	50.00- 150.00	100.00
19.111	19.111 (0.919)	99	303122			15.63- 115.63	62.36
19.111	19.111 (0.919)	83	432629			38.74- 138.74	89.00
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	595176	25.0000	30.215	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	456322			28.03- 128.03	76.67
19.277	19.277 (0.927)	131	427819			25.94- 125.94	71.88
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	556193	25.0000	32.139	50.00- 150.00	100.00
19.443	19.443 (0.935)	43	1139425			164.60- 264.60	204.86
19.443	19.443 (0.935)	100	79331			0.00- 63.31	14.26
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	857196	25.0000	32.044	50.00- 150.00	100.00
19.803	19.803 (0.952)	127	663647			29.97- 129.97	77.42
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	789259	25.0000	31.304	50.00- 150.00	100.00
20.079	20.079 (0.965)	109	747918			49.29- 149.29	94.76
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	1068105	25.0000	29.362	50.00- 150.00	100.00
20.853	20.853 (1.003)	114	344959			0.00- 84.90	32.30
20.853	20.853 (1.003)	77	669409			33.46- 133.46	62.67
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	542867	25.0000	31.069	50.00- 150.00	100.00
20.936	20.936 (1.007)	91	1737067			263.90- 363.90	319.98
129 m,p-Xylene					CAS #: 108-38-3		
21.158	21.158 (1.017)	106	661019	25.0000	32.929	50.00- 150.00	100.00
21.158	21.158 (1.017)	91	1356511			150.68- 250.68	205.22
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	609626	25.0000	33.697	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)							
21.849	21.849 (1.051)	91	1272610			177.75- 277.75	208.75
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	974526	25.0000	35.458	50.00- 150.00	100.00
21.876	21.876 (1.052)	78	545301			16.73- 116.73	55.96
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	756082	25.0000	32.105	50.00- 150.00	100.00
22.291	22.291 (1.072)	171	393661			1.75- 101.75	52.07
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	1548741	25.0000	32.215	50.00- 150.00	100.00
22.429	22.429 (1.078)	120	397965			0.00- 74.88	25.70
22.429	22.429 (1.078)	51	202988			0.00- 65.35	13.11
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	1023002	25.0000	29.945	50.00- 150.00	100.00
23.010	23.010 (1.106)	85	638739			12.16- 112.16	62.44
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	1873211	25.0000	33.270	50.00- 150.00	100.00
23.121	23.121 (1.112)	120	396720			0.00- 69.34	21.18
23.121	23.121 (1.112)	105	66174			0.00- 74.98	3.53
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.287 (1.120)	105	1509621	25.0000	35.002	50.00- 150.00	100.00
23.287	23.287 (1.120)	120	443059			0.00- 80.97	29.35
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	1289794	25.0000	32.891	50.00- 150.00	100.00
23.397	23.397 (1.125)	120	602051			0.00- 98.08	46.68
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	1091067	25.0000	33.463	50.00- 150.00	100.00
24.033	24.033 (1.156)	120	497562			0.00- 91.22	45.60
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	762692	25.0000	30.449	50.00- 150.00	100.00
24.586	24.586 (1.182)	148	480589			13.17- 113.17	63.01
24.586	24.586 (1.182)	111	328455			0.00- 94.11	43.07
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	764725	25.0000	29.771	50.00- 150.00	100.00
24.752	24.752 (1.190)	148	477130			12.74- 112.74	62.39
24.724	24.724 (1.189)	111	312553			0.00- 88.19	40.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.946	24.946 (1.199)	91	1033908	25.0000	32.149	50.00- 150.00	100.00
24.946	24.946 (1.199)	126	191549			0.00- 69.81	18.53
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	667535	25.0000	32.068	50.00- 150.00	100.00
25.360	25.360 (1.219)	148	428038			18.97- 118.97	64.12
25.360	25.360 (1.219)	111	304079			0.00- 98.75	45.55
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	248992	25.0000	25.408	50.00- 150.00	100.00
28.153	28.153 (1.354)	182	237213			53.00- 153.00	95.27
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	377047	25.0000	23.935	50.00- 150.00	100.00
28.319	28.319 (1.362)	223	236077			12.27- 112.27	62.61
19 Butane					CAS #: 106-97-8		
6.807	6.807 (0.490)	58	159463	25.0000	32.411	50.00- 150.00	100.00
6.807	6.807 (0.490)	43	1393029			869.99- 969.99	873.58
29 Isopentane					CAS #: 78-78-4		
8.245	8.245 (0.594)	43	1388482	25.0000	28.659	50.00- 150.00	100.00
8.245	8.245 (0.594)	57	831977			8.42- 108.42	59.92
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	706515	25.0000	34.323	50.00- 150.00	100.00
16.374	16.374 (1.179)	98	314944			0.00- 91.92	44.58
16.374	16.374 (1.179)	55	726013			55.83- 155.83	102.76
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	553818	25.0000	23.892	50.00- 150.00	100.00
28.678	28.678 (1.379)	127	67652			0.00- 62.45	12.22

Report Date: 22-Aug-2007 12:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

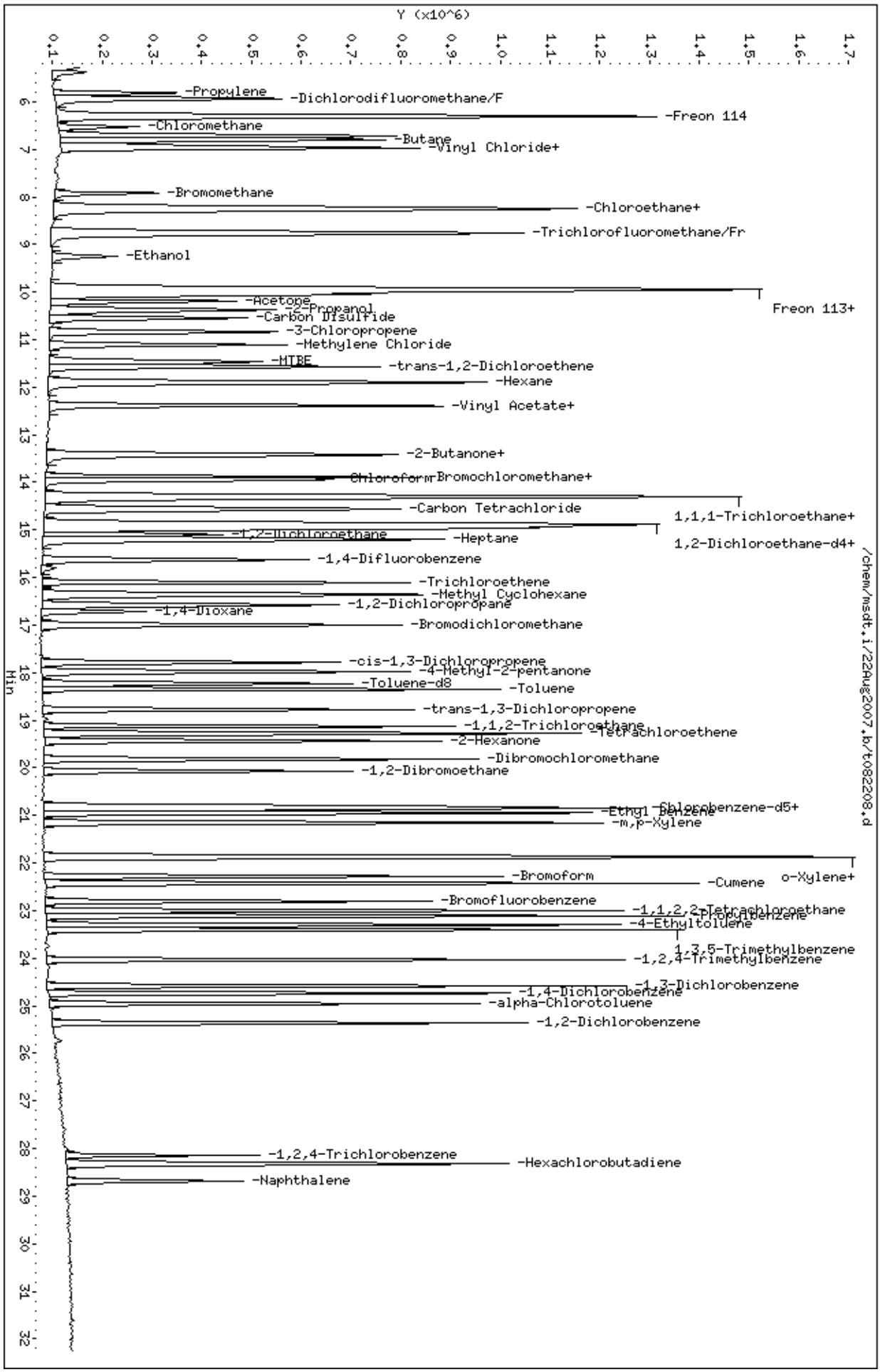
Instrument ID: msdt.i
Lab File ID: t082208.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 25ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	208401	-0.86
97 1,4-Difluorobenze	855220	513132	1197308	845167	-1.18
126 Chlorobenzene-d5	776619	465971	1087267	733481	-5.55

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

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



Data File: /chem/msdt.i/22Aug2007.b/t082208.d
Date : 22-AUG-2007 11:50
Client ID: Level 4
Sample Info: 25mL #1443-170
Column phase: RTx-624

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082209.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 22-AUG-2007 12:29
Operator : cb Inst ID: msdt.i
Smp Info : 50mL #1443-170
Misc Info : 200ppbv --> 50ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 12:57 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 12:29 Cal File: t082209.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	210206	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	159965			26.10- 126.10	76.10
13.886	13.886 (1.000)	49	583942			227.80- 327.80	277.80
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.628	15.628 (1.000)	114	855220	25.0000		80.00- 120.00	100.00
15.628	15.628 (1.000)	88	135413			0.00- 65.83	15.83
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	776619	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	471574			12.39- 112.39	60.72
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	400920	25.0000	25.136	80.00- 120.00	100.00
14.964	14.964 (1.078)	67	228513			0.55- 100.55	57.00
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.166)	98	852203	25.0000	25.659	80.00- 120.00	100.00
18.227	18.227 (1.166)	70	105786			0.00- 62.17	12.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	579423			18.13- 118.13	67.99
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	364966	25.0000	26.219	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	522679			93.21- 193.21	143.21
22.789	22.789 (1.096)	176	349252			45.69- 145.69	95.69
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	568423	50.0000	48.729	80.00- 120.00	100.00
5.840	5.840 (0.421)	42	396754			25.84- 125.84	69.80
5.840	5.840 (0.421)	39	441070			31.30- 131.30	77.60
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.428)	85	2009475	50.0000	50.992	80.00- 120.00	100.00
5.950	5.950 (0.428)	87	643866			0.00- 82.85	32.04
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	1692421	50.0000	48.679	80.00- 120.00	100.00
6.310	6.310 (0.454)	137	546156			0.00- 79.77	32.27
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	673944	50.0000	46.320	80.00- 120.00	100.00
6.559	6.559 (0.472)	52	215261			0.00- 82.38	31.94
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	781835	50.0000	51.816	80.00- 120.00	100.00
6.918	6.918 (0.498)	64	265278			12.53- 112.53	33.93
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	1045349	50.0000	49.441	80.00- 120.00	100.00
6.973	6.973 (0.502)	39	1136990			72.13- 172.13	108.77
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	629896	50.0000	51.864	80.00- 120.00	100.00
7.941	7.941 (0.572)	96	592723			44.10- 144.10	94.10
27 Chloroethane					CAS #: 75-00-3		
8.217	8.217 (0.592)	64	380803	50.0000	51.059	80.00- 120.00	100.00
8.217	8.217 (0.592)	49	134437			0.00- 83.52	35.30
8.217	8.217 (0.592)	66	117185			0.00- 81.28	30.77
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.798	8.798 (0.634)	101	3589747	50.0000	52.322	80.00- 120.00	100.00
8.798	8.798 (0.634)	103	2280136			13.52- 113.52	63.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.268	9.268 (0.667)	45	462955	50.0000	46.696	80.00- 120.00	100.00
9.268	9.268 (0.667)	43	104372			0.00- 77.52	22.54
9.268	9.268 (0.667)	46	183878			0.00- 84.94	39.72
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	2249912	50.0000	51.238	80.00- 120.00	100.00
9.959	9.959 (0.717)	153	1423359			13.26- 113.26	63.26
9.959	9.959 (0.717)	101	3122856			88.80- 188.80	138.80
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.070	10.070 (0.725)	61	1495029	50.0000	52.444	80.00- 120.00	100.00
10.070	10.070 (0.725)	96	739726			0.00- 99.48	49.48
10.070	10.070 (0.725)	98	470605			0.00- 81.48	31.48
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	459284	50.0000	46.252	80.00- 120.00	100.00
10.208	10.208 (0.735)	43	1764439			307.56- 407.56	384.17
46 2-Propanol					CAS #: 67-63-0		
10.402	10.402 (0.749)	45	2243699	50.0000	52.037	80.00- 120.00	100.00
10.402	10.402 (0.749)	43	514105			0.00- 77.92	22.91
10.402	10.402 (0.749)	59	75472			0.00- 53.21	3.36
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	2014022	50.0000	53.539	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	338117	50.0000	52.608	80.00- 120.00	100.00
10.844	10.844 (0.781)	41	1312003			354.09- 454.09	388.03
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	1037799	50.0000	49.392	80.00- 120.00	100.00
11.121	11.121 (0.801)	84	601427			7.95- 107.95	57.95
11.121	11.121 (0.801)	51	306890			0.00- 84.82	29.57
60 MTBE					CAS #: 1634-04-4		
11.480	11.480 (0.827)	73	1795988	50.0000	53.470	80.00- 120.00	100.00
11.480	11.480 (0.827)	57	451586			0.00- 75.14	25.14
11.480	11.480 (0.827)	41	546879			0.00- 86.33	30.45
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	756280	50.0000	51.103	80.00- 120.00	100.00
11.563	11.563 (0.833)	61	1317756			124.24- 224.24	174.24
11.563	11.563 (0.833)	98	486529			10.67- 110.67	64.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.922	11.922 (0.859)	57	1862479	50.0000	58.404	80.00- 120.00	100.00
11.922	11.922 (0.859)	43	1308766			27.36- 127.36	70.27
11.922	11.922 (0.859)	86	227213			0.00- 61.32	12.20
69 Vinyl Acetate					CAS #: 108-05-4		
12.393	12.393 (0.892)	86	182466	50.0000	57.622	80.00- 120.00	100.00
12.393	12.393 (0.892)	43	2767983			1665.80-1765.80	1516.99
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	1713868	50.0000	54.277	80.00- 120.00	100.00
12.393	12.393 (0.892)	65	532573			0.00- 81.07	31.07
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	358244	50.0000	56.107	80.00- 120.00	100.00
13.416	13.416 (0.966)	43	1974402			501.13- 601.13	551.13
13.416	13.416 (0.966)	57	143055			0.00- 86.63	39.93
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	1124823	50.0000	56.228	80.00- 120.00	100.00
13.443	13.443 (0.968)	96	707150			12.87- 112.87	62.87
13.443	13.443 (0.968)	98	442325			0.00- 89.32	39.32
80 Tetrahydrofuran					CAS #: 109-99-9		
13.886	13.886 (1.000)	42	1050997	50.0000	52.715	80.00- 120.00	100.00
13.886	13.886 (1.000)	71	324151			0.00- 80.84	30.84
13.886	13.886 (1.000)	72	352048			0.00- 79.52	33.50
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	1639507	50.0000	55.966	80.00- 120.00	100.00
13.969	13.969 (1.006)	85	1023542			12.43- 112.43	62.43
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	2032641	50.0000	54.722	80.00- 120.00	100.00
14.300	14.300 (1.030)	99	1324130			15.14- 115.14	65.14
85 Cyclohexane					CAS #: 110-82-7		
14.328	14.328 (1.032)	84	1170338	50.0000	59.872	80.00- 120.00	100.00
14.300	14.300 (1.030)	56	1651700			91.13- 191.13	141.13
14.300	14.300 (1.030)	41	992093			34.77- 134.77	84.77
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	1841282	50.0000	54.833	80.00- 120.00	100.00
14.549	14.549 (1.048)	117	1925342			54.57- 154.57	104.57
91 Benzene					CAS #: 71-43-2		
14.992	14.992 (0.959)	78	2226334	50.0000	50.892	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.992	14.992 (0.959)	77	486023			0.00- 72.01	21.83
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	5226359	50.0000	57.145	80.00- 120.00	100.00
14.881	14.881 (1.072)	56	1759218			0.00- 86.15	33.66
14.881	14.881 (1.072)	41	1521515			0.00- 84.85	29.11
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	1177042	50.0000	53.719	80.00- 120.00	100.00
15.102	15.102 (0.966)	64	372221			0.00- 83.32	31.62
94 Heptane					CAS #: 142-82-5		
15.213	15.213 (0.973)	71	782412	50.0000	60.021	80.00- 120.00	100.00
15.185	15.185 (0.972)	43	1720731			179.80- 279.80	219.93
15.213	15.213 (0.973)	57	866331			65.65- 165.65	110.73
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	903653	50.0000	54.615	80.00- 120.00	100.00
16.098	16.098 (1.030)	130	837373			42.67- 142.67	92.67
16.098	16.098 (1.030)	97	585718			14.82- 114.82	64.82
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	886826	50.0000	55.618	80.00- 120.00	100.00
16.568	16.568 (1.060)	62	651374			23.45- 123.45	73.45
16.568	16.568 (1.060)	41	616474			19.51- 119.51	69.51
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	522210	50.0000	55.472	80.00- 120.00	100.00
16.706	16.706 (1.069)	58	423298			31.06- 131.06	81.06
16.706	16.706 (1.069)	57	146630			0.00- 80.30	28.08
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	1722780	50.0000	54.506	80.00- 120.00	100.00
17.010	17.010 (1.088)	85	1061179			11.60- 111.60	61.60
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	1207114	50.0000	58.206	80.00- 120.00	100.00
17.784	17.784 (1.138)	77	384952			0.00- 81.89	31.89
17.784	17.784 (1.138)	39	806227			16.79- 116.79	66.79
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	804872	50.0000	63.416	80.00- 120.00	100.00
17.978	17.978 (1.150)	43	2192463			233.11- 333.11	272.40
17.978	17.978 (1.150)	85	279895			0.00- 83.94	34.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	2408451	50.0000	56.160	80.00- 120.00	100.00
18.337	18.337 (1.173)	92	1527291			13.41- 113.41	63.41
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	1341443	50.0000	56.467	80.00- 120.00	100.00
18.780	18.780 (0.903)	77	423894			0.00- 81.60	31.60
18.780	18.780 (0.903)	39	827888			11.72- 111.72	61.72
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	942034	50.0000	53.850	80.00- 120.00	100.00
19.111	19.111 (0.919)	99	587377			12.35- 112.35	62.35
19.111	19.111 (0.919)	83	814431			36.45- 136.45	86.45
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	1144592	50.0000	53.572	80.00- 120.00	100.00
19.277	19.277 (0.927)	129	870097			26.02- 126.02	76.02
19.277	19.277 (0.927)	131	827577			22.30- 122.30	72.30
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	1119395	50.0000	56.885	80.00- 120.00	100.00
19.443	19.443 (0.935)	43	2237539			149.89- 249.89	199.89
19.443	19.443 (0.935)	100	169206			0.00- 63.91	15.12
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	1666427	50.0000	56.346	80.00- 120.00	100.00
19.803	19.803 (0.952)	127	1277187			29.14- 129.14	76.64
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	1565266	50.0000	56.208	80.00- 120.00	100.00
20.079	20.079 (0.965)	109	1475196			44.25- 144.25	94.25
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	2081432	50.0000	52.970	80.00- 120.00	100.00
20.853	20.853 (1.003)	114	667095			0.00- 82.05	32.05
20.853	20.853 (1.003)	77	1276409			11.32- 111.32	61.32
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	1069713	50.0000	55.644	80.00- 120.00	100.00
20.964	20.964 (1.008)	91	3417817			265.30- 365.30	319.51
129 m,p-Xylene					CAS #: 108-38-3		
21.157	21.157 (1.017)	106	1318592	50.0000	58.515	80.00- 120.00	100.00
21.157	21.157 (1.017)	91	2688764			151.49- 251.49	203.91
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	1217943	50.0000	59.539	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	2561933			160.35- 260.35	210.35
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	1983586	50.0000	63.547	80.00- 120.00	100.00
21.876	21.876 (1.052)	78	1073105			4.10- 104.10	54.10
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	1508828	50.0000	57.488	80.00- 120.00	100.00
22.291	22.291 (1.072)	171	778603			1.60- 101.60	51.60
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	3102704	50.0000	58.395	80.00- 120.00	100.00
22.429	22.429 (1.078)	120	798284			0.00- 75.05	25.73
22.429	22.429 (1.078)	51	388423			0.00- 64.78	12.52
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	2015363	50.0000	54.168	80.00- 120.00	100.00
23.010	23.010 (1.106)	85	1252528			12.15- 112.15	62.15
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	3794407	50.0000	59.583	80.00- 120.00	100.00
23.121	23.121 (1.112)	120	804183			0.00- 69.80	21.19
23.121	23.121 (1.112)	105	146340			0.00- 69.70	3.86
145 4-Ethyltoluene					CAS #: 622-96-8		
23.286	23.286 (1.120)	105	3024568	50.0000	61.261	80.00- 120.00	100.00
23.314	23.314 (1.121)	120	890991			0.00- 79.46	29.46
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	2585730	50.0000	58.674	80.00- 120.00	100.00
23.397	23.397 (1.125)	120	1227801			0.00- 97.93	47.48
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	2244057	50.0000	60.466	80.00- 120.00	100.00
24.033	24.033 (1.156)	120	1022459			0.00- 92.31	45.56
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	1541666	50.0000	55.859	80.00- 120.00	100.00
24.586	24.586 (1.182)	148	994865			13.51- 113.51	64.53
24.586	24.586 (1.182)	111	660074			0.00- 93.79	42.82
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	1555199	50.0000	55.199	80.00- 120.00	100.00
24.752	24.752 (1.190)	148	991741			13.00- 113.00	63.77
24.752	24.752 (1.190)	111	639264			0.00- 88.92	41.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	2178339	50.0000	59.794	80.00- 120.00	100.00
24.945	24.945 (1.199)	126	404057			0.00- 69.50	18.55
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	1373880	50.0000	58.713	80.00- 120.00	100.00
25.360	25.360 (1.219)	148	872391			13.50- 113.50	63.50
25.360	25.360 (1.219)	111	602410			0.00- 93.85	43.85
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	474658	50.0000	47.080	80.00- 120.00	100.00
28.153	28.153 (1.354)	182	458768			46.65- 146.65	96.65
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	742813	50.0000	46.218	80.00- 120.00	100.00
28.319	28.319 (1.362)	223	468936			12.56- 112.56	63.13
19 Butane					CAS #: 106-97-8		
6.807	6.807 (0.490)	58	232807	50.0000	47.898	80.00- 120.00	100.00
6.807	6.807 (0.490)	43	2039561			855.35- 955.35	876.07
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	2404717	50.0000	49.469	80.00- 120.00	100.00
8.273	8.273 (0.596)	57	1452220			9.08- 109.08	60.39
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	1349333	50.0000	60.458	80.00- 120.00	100.00
16.374	16.374 (1.179)	98	599786			0.00- 92.55	44.45
16.374	16.374 (1.179)	55	1317073			53.78- 153.78	97.61
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	1039491	50.0000	44.629	80.00- 120.00	100.00
28.678	28.678 (1.379)	127	129105			0.00- 62.44	12.42

Report Date: 22-Aug-2007 12:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 50ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	210206	0.00
97 1,4-Difluorobenze	855220	513132	1197308	855220	0.00
126 Chlorobenzene-d5	776619	465971	1087267	776619	0.00

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

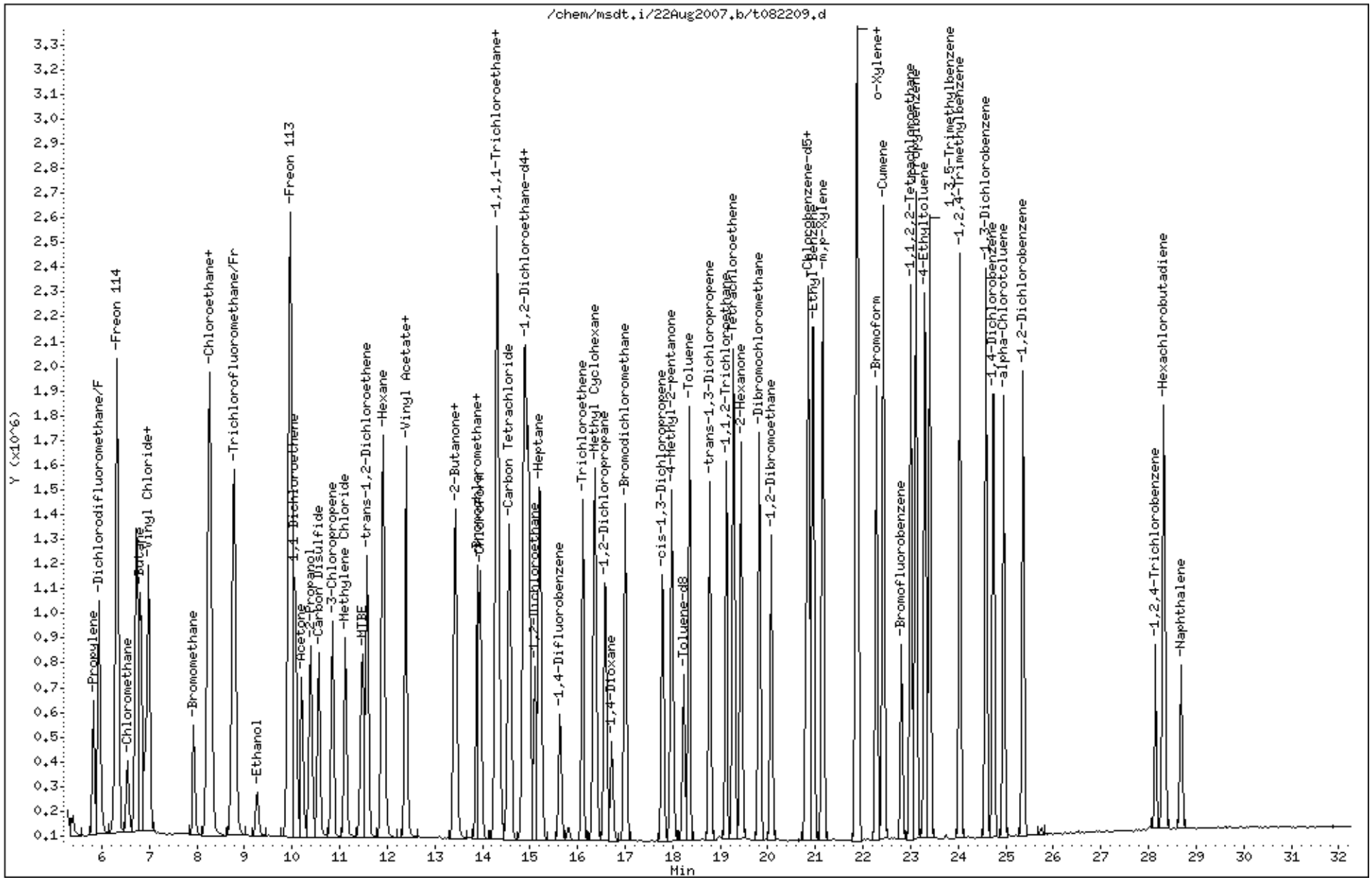
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0120

Data File: /chem/msdt.i/22Aug2007.b/t082209.d
Date : 22-AUG-2007 12:29
Client ID: Level 5
Sample Info: 50mL #1443-170

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082210.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 22-AUG-2007 13:08
Operator : cb Inst ID: msdt.i
Smp Info : 100mL #1443-170
Misc Info : 200ppbv --> 100ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 14:09 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 13:08 Cal File: t082210.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane						CAS #: 74-97-5	
13.885	13.885 (1.000)	130	214920	25.0000		50.00- 150.00	100.00
13.885	13.885 (1.000)	128	171285			27.29- 127.29	79.70
13.885	13.885 (1.000)	49	769422			194.19- 294.19	358.00
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.627	15.627 (1.000)	114	911439	25.0000		50.00- 150.00	100.00
15.627	15.627 (1.000)	88	141647			0.00- 66.13	15.54
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	801282	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	495998			12.31- 112.31	61.90
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	410892	25.0000	25.164	50.00- 150.00	100.00
14.964	14.964 (1.078)	67	267530			2.98- 102.98	65.11
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.226	18.226 (1.166)	98	885892	25.0000	25.023	50.00- 150.00	100.00
18.226	18.226 (1.166)	70	102536			0.00- 62.07	11.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.226	18.226 (1.166)	100	615150			18.35- 118.35	69.44
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	394599	25.0000	27.029	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	546416			92.73- 192.73	138.47
22.789	22.789 (1.096)	176	380257			46.25- 146.25	96.37
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	1130771	100.000	96.057	50.00- 150.00	100.00
5.840	5.840 (0.421)	42	796181			24.48- 124.48	70.41
5.840	5.840 (0.421)	39	888618			30.62- 130.62	78.59
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.428)	85	3884273	100.000	97.103	50.00- 150.00	100.00
5.950	5.950 (0.428)	87	1259372			0.00- 82.77	32.42
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	3316604	100.000	94.570	50.00- 150.00	100.00
6.310	6.310 (0.454)	137	1047459			0.00- 80.13	31.58
18 Chloromethane					CAS #: 74-87-3		
6.558	6.558 (0.472)	50	1299622	100.000	90.213	50.00- 150.00	100.00
6.558	6.558 (0.472)	52	414051			0.00- 82.25	31.86
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	1572692	100.000	101.55	50.00- 150.00	100.00
6.918	6.918 (0.498)	64	492013			6.28- 106.28	31.28
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	2277075	100.000	104.22	50.00- 150.00	100.00
6.973	6.973 (0.502)	39	2349761			68.34- 168.34	103.19
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	1284233	100.000	102.72	50.00- 150.00	100.00
7.941	7.941 (0.572)	96	1202708			52.08- 152.08	93.65
27 Chloroethane					CAS #: 75-00-3		
8.217	8.217 (0.592)	64	786570	100.000	102.50	50.00- 150.00	100.00
8.217	8.217 (0.592)	49	276238			0.00- 83.92	35.12
8.217	8.217 (0.592)	66	243269			0.00- 81.21	30.93
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.798	8.798 (0.634)	101	7457326	100.000	104.98	50.00- 150.00	100.00
8.798	8.798 (0.634)	103	4795042			15.39- 115.39	64.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.268	9.268 (0.667)	45	873751	100.000	89.279	50.00- 150.00	100.00
9.268	9.268 (0.667)	43	190923			0.00- 76.10	21.85
9.268	9.268 (0.667)	46	328031			0.00- 85.59	37.54
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	4986604	100.000	108.66	50.00- 150.00	100.00
9.959	9.959 (0.717)	153	3161535			13.31- 113.31	63.40
9.959	9.959 (0.717)	101	6782248			85.79- 185.79	136.01
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	3399042	100.000	112.87	50.00- 150.00	100.00
10.042	10.042 (0.723)	96	1717371			2.45- 102.45	50.53
10.070	10.070 (0.725)	98	1107347			0.00- 81.04	32.58
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	1160031	100.000	110.33	50.00- 150.00	100.00
10.208	10.208 (0.735)	43	4109132			306.72- 406.72	354.23
46 2-Propanol					CAS #: 67-63-0		
10.402	10.402 (0.749)	45	5497106	100.000	117.44	50.00- 150.00	100.00
10.402	10.402 (0.749)	43	1148855			0.00- 76.17	20.90
10.402	10.402 (0.749)	59	185043			0.00- 53.25	3.37
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	4267243	100.000	108.57	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	808510	100.000	116.34	50.00- 150.00	100.00
10.844	10.844 (0.781)	41	3009173			346.11- 446.11	372.19
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	2225077	100.000	102.84	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	1304040			5.93- 105.93	58.61
11.121	11.121 (0.801)	51	667760			0.00- 83.86	30.01
60 MTBE					CAS #: 1634-04-4		
11.480	11.480 (0.827)	73	3641779	100.000	104.78	50.00- 150.00	100.00
11.452	11.452 (0.825)	57	939526			0.00- 74.23	25.80
11.452	11.452 (0.825)	41	1017620			0.00- 84.65	27.94
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	1702917	100.000	109.79	50.00- 150.00	100.00
11.563	11.563 (0.833)	61	2912538			113.20- 213.20	171.03
11.563	11.563 (0.833)	98	1073489			11.14- 111.14	63.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.922	11.922 (0.859)	57	4320052	100.000	124.41	50.00- 150.00	100.00
11.922	11.922 (0.859)	43	2982580			25.69- 125.69	69.04
11.922	11.922 (0.859)	86	541636			0.00- 61.56	12.54
69 Vinyl Acetate					CAS #: 108-05-4		
12.392	12.392 (0.892)	86	409857	100.000	118.70	50.00- 150.00	100.00
12.365	12.365 (0.890)	43	6156868			1612.40-1712.40	1502.20
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.392	12.392 (0.892)	63	3778532	100.000	113.18	50.00- 150.00	100.00
12.392	12.392 (0.892)	65	1159494			0.00- 80.96	30.69
75 2-Butanone					CAS #: 78-93-3		
13.415	13.415 (0.966)	72	790419	100.000	116.18	50.00- 150.00	100.00
13.415	13.415 (0.966)	43	4219551			486.20- 586.20	533.84
13.415	13.415 (0.966)	57	310985			0.00- 87.31	39.34
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	2333203	100.000	110.95	50.00- 150.00	100.00
13.443	13.443 (0.968)	96	1504161			16.27- 116.27	64.47
13.443	13.443 (0.968)	98	955908			0.00- 91.48	40.97
80 Tetrahydrofuran					CAS #: 109-99-9		
13.885	13.885 (1.000)	42	2205600	100.000	106.45	50.00- 150.00	100.00
13.885	13.885 (1.000)	71	694805			0.00- 79.00	31.50
13.885	13.885 (1.000)	72	754728			0.00- 80.46	34.22
82 Chloroform					CAS #: 67-66-3		
13.968	13.968 (1.006)	83	3377523	100.000	110.42	50.00- 150.00	100.00
13.968	13.968 (1.006)	85	2118194			16.08- 116.08	62.71
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	4316590	100.000	110.64	50.00- 150.00	100.00
14.300	14.300 (1.030)	99	2767004			13.88- 113.88	64.10
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	2629620	100.000	123.76	50.00- 150.00	100.00
14.300	14.300 (1.030)	56	3679617			96.03- 196.03	139.93
14.300	14.300 (1.030)	41	2154435			48.38- 148.38	81.93
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	3818015	100.000	108.77	50.00- 150.00	100.00
14.549	14.549 (1.048)	117	3998865			52.00- 152.00	104.74
91 Benzene					CAS #: 71-43-2		
14.991	14.991 (0.959)	78	4542139	100.000	97.845	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.964	14.964 (0.958)	77	992089			0.00- 71.98	21.84
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	12341540	100.000	124.05	50.00- 150.00	100.00
14.881	14.881 (1.072)	56	4151226			0.00- 85.64	33.64
14.881	14.881 (1.072)	41	3457049			0.00- 83.48	28.01
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	2349486	100.000	100.49	50.00- 150.00	100.00
15.102	15.102 (0.966)	64	742999			0.00- 82.98	31.62
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	1669161	100.000	115.49	50.00- 150.00	100.00
15.185	15.185 (0.972)	43	3588762			176.84- 276.84	215.00
15.185	15.185 (0.972)	57	1842248			64.59- 164.59	110.37
101 Trichloroethene					CAS #: 79-01-6		
16.097	16.097 (1.030)	95	1849496	100.000	103.87	50.00- 150.00	100.00
16.097	16.097 (1.030)	130	1701239			41.79- 141.79	91.98
16.097	16.097 (1.030)	97	1182384			15.62- 115.62	63.93
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.567	16.567 (1.060)	63	1820653	100.000	105.63	50.00- 150.00	100.00
16.567	16.567 (1.060)	62	1339881			23.14- 123.14	73.59
16.567	16.567 (1.060)	41	1248328			31.51- 131.51	68.56
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	1092238	100.000	106.50	50.00- 150.00	100.00
16.706	16.706 (1.069)	58	889275			32.29- 132.29	81.42
16.706	16.706 (1.069)	57	294797			0.00- 79.47	26.99
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	3401041	100.000	100.77	50.00- 150.00	100.00
17.010	17.010 (1.088)	85	2098226			10.81- 110.81	61.69
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	2450248	100.000	108.50	50.00- 150.00	100.00
17.784	17.784 (1.138)	77	780370			0.00- 83.31	31.85
17.784	17.784 (1.138)	39	1615038			22.61- 122.61	65.91
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	1715784	100.000	120.38	50.00- 150.00	100.00
17.978	17.978 (1.150)	43	4625428			230.40- 330.40	269.58
17.978	17.978 (1.150)	85	601583			0.00- 84.16	35.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	4947599	100.000	106.49	50.00- 150.00	100.00
18.337	18.337 (1.173)	92	3084445			14.45- 114.45	62.34
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.779	18.779 (0.903)	75	2716044	100.000	108.46	50.00- 150.00	100.00
18.779	18.779 (0.903)	77	855594			0.00- 85.14	31.50
18.779	18.779 (0.903)	39	1669499			18.67- 118.67	61.47
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	1911940	100.000	104.69	50.00- 150.00	100.00
19.111	19.111 (0.919)	99	1194708			14.35- 114.35	62.49
19.111	19.111 (0.919)	83	1659981			37.90- 137.90	86.82
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	2328408	100.000	104.45	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	1752192			27.07- 127.07	75.25
19.277	19.277 (0.927)	131	1670745			24.38- 124.38	71.75
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	2395561	100.000	112.91	50.00- 150.00	100.00
19.443	19.443 (0.935)	43	4651125			155.81- 255.81	194.16
19.443	19.443 (0.935)	100	355729			0.00- 64.15	14.85
122 Dibromochloromethane					CAS #: 124-48-1		
19.802	19.802 (0.952)	129	3365460	100.000	108.07	50.00- 150.00	100.00
19.802	19.802 (0.952)	127	2622205			28.89- 128.89	77.92
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	3192685	100.000	108.70	50.00- 150.00	100.00
20.079	20.079 (0.965)	109	2984056			47.12- 147.12	93.47
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	4274713	100.000	104.30	50.00- 150.00	100.00
20.853	20.853 (1.003)	114	1374334			0.00- 83.78	32.15
20.853	20.853 (1.003)	77	2576428			24.40- 124.40	60.27
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	2223378	100.000	109.45	50.00- 150.00	100.00
20.964	20.964 (1.008)	91	7050814			265.67- 365.67	317.12
129 m,p-Xylene					CAS #: 108-38-3		
21.157	21.157 (1.017)	106	2783117	100.000	115.17	50.00- 150.00	100.00
21.157	21.157 (1.017)	91	5547520			151.06- 251.06	199.33
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	2533641	100.000	115.42	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)							
21.849	21.849 (1.051)	91	5286751			170.45- 270.45	208.66
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	4173966	100.000	123.51	50.00- 150.00	100.00
21.876	21.876 (1.052)	78	2201448			12.29- 112.29	52.74
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	3102152	100.000	111.32	50.00- 150.00	100.00
22.291	22.291 (1.072)	171	1599234			1.68- 101.68	51.55
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	6534034	100.000	115.50	50.00- 150.00	100.00
22.429	22.429 (1.078)	120	1693544			0.00- 75.19	25.92
22.429	22.429 (1.078)	51	821084			0.00- 64.41	12.57
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	4175052	100.000	106.89	50.00- 150.00	100.00
23.010	23.010 (1.106)	85	2591309			12.14- 112.14	62.07
142 Propylbenzene					CAS #: 103-65-1		
23.120	23.120 (1.112)	91	8134665	100.000	118.18	50.00- 150.00	100.00
23.120	23.120 (1.112)	120	1712494			0.00- 70.05	21.05
23.120	23.120 (1.112)	105	307006			0.00- 66.51	3.77
145 4-Ethyltoluene					CAS #: 622-96-8		
23.286	23.286 (1.120)	105	6632894	100.000	122.79	50.00- 150.00	100.00
23.314	23.314 (1.121)	120	1945458			0.00- 80.34	29.33
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	5474152	100.000	115.68	50.00- 150.00	100.00
23.397	23.397 (1.125)	120	2616513			0.00- 97.91	47.80
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	4887107	100.000	120.95	50.00- 150.00	100.00
24.033	24.033 (1.156)	120	2228130			0.00- 92.97	45.59
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	3402141	100.000	115.00	50.00- 150.00	100.00
24.586	24.586 (1.182)	148	2149652			13.45- 113.45	63.19
24.586	24.586 (1.182)	111	1435837			0.00- 93.47	42.20
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	3426778	100.000	113.81	50.00- 150.00	100.00
24.752	24.752 (1.190)	148	2165374			13.03- 113.03	63.19
24.752	24.752 (1.190)	111	1384647			0.00- 89.21	40.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	4911322	100.000	123.11	50.00- 150.00	100.00
24.945	24.945 (1.199)	126	913202			0.00- 69.32	18.59
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	3031464	100.000	119.46	50.00- 150.00	100.00
25.360	25.360 (1.219)	148	1933823			16.84- 116.84	63.79
25.360	25.360 (1.219)	111	1341983			0.00- 96.87	44.27
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	1248418	100.000	114.30	50.00- 150.00	100.00
28.153	28.153 (1.354)	182	1196037			49.61- 149.61	95.80
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.318	28.318 (1.362)	225	1752886	100.000	104.22	50.00- 150.00	100.00
28.318	28.318 (1.362)	223	1084888			12.39- 112.39	61.89
19 Butane					CAS #: 106-97-8		
6.807	6.807 (0.490)	58	473858	100.000	96.474	50.00- 150.00	100.00
6.807	6.807 (0.490)	43	4013655			840.77- 940.77	847.02
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	5225774	100.000	103.81	50.00- 150.00	100.00
8.273	8.273 (0.596)	57	3308161			10.13- 110.13	63.30
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	2913917	100.000	120.99	50.00- 150.00	100.00
16.374	16.374 (1.179)	98	1316454			0.00- 93.08	45.18
16.374	16.374 (1.179)	55	2856757			52.63- 152.63	98.04
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	2871448	100.000	113.94	50.00- 150.00	100.00
28.678	28.678 (1.379)	127	345373			0.00- 62.34	12.03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082210.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 100ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	214920	2.24
97 1,4-Difluorobenze	855220	513132	1197308	911439	6.57
126 Chlorobenzene-d5	776619	465971	1087267	801282	3.18

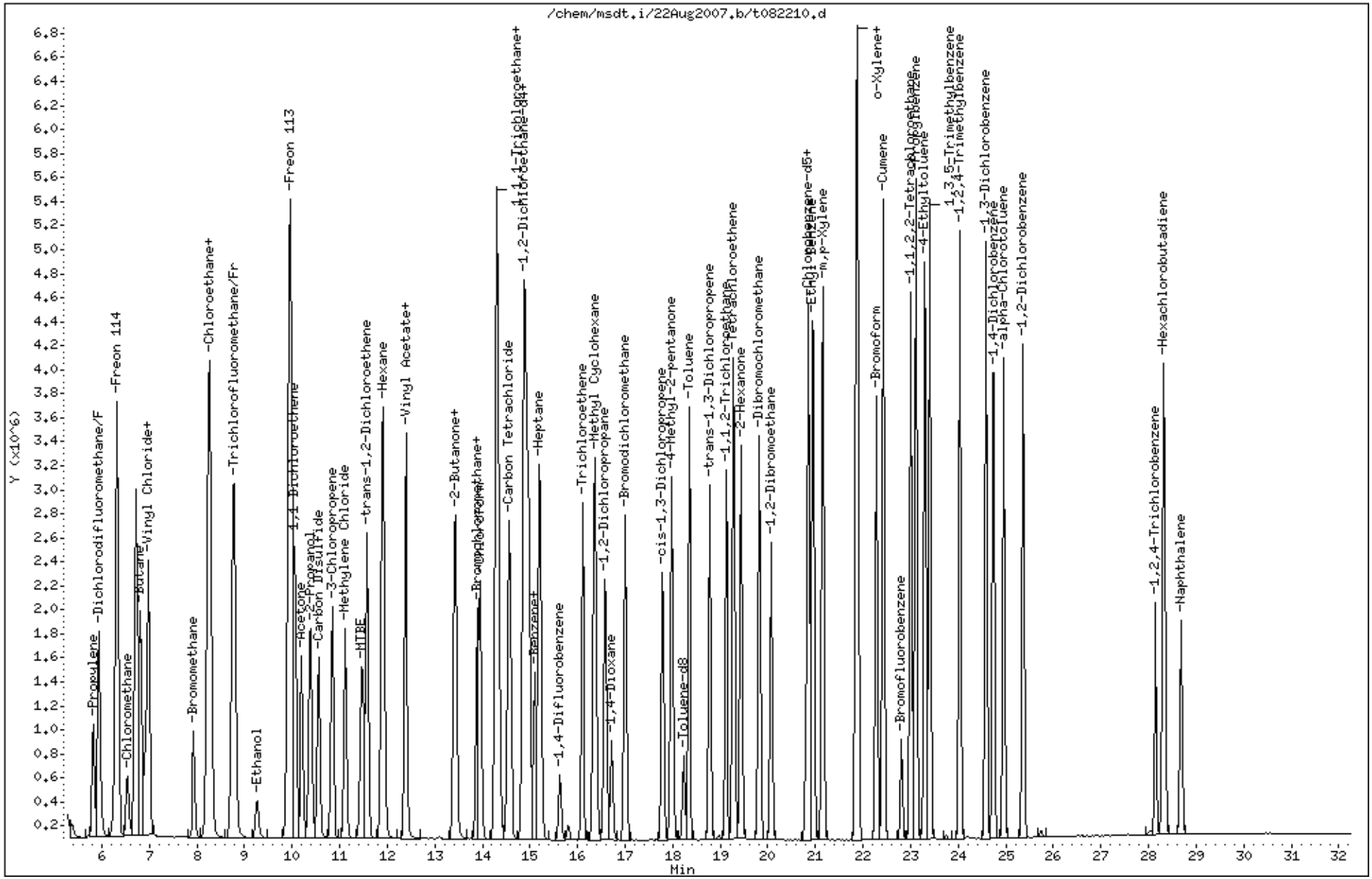
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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

Data File: /chem/msdt.i/22Aug2007.b/t082210.d
Date : 22-AUG-2007 13:08
Client ID: Level 6
Sample Info: 100mL #1443-170

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082211.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 22-AUG-2007 13:48
Operator : cb Inst ID: msdt.i
Smp Info : 200mL #1443-170
Misc Info : 200ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 14:09 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 13:48 Cal File: t082211.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	216168	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	163331			27.29- 127.29	75.56
13.969	13.969 (1.000)	49	1065899			194.19- 294.19	493.09
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	900067	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	142166			0.00- 66.13	15.80
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	817455	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	490884			12.31- 112.31	60.05
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.964	14.964 (1.078)	65	421852	25.0000	25.586	50.00- 150.00	100.00
14.964	14.964 (1.078)	67	337538			2.98- 102.98	80.01
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.227	18.227 (1.166)	98	890373	25.0000	25.400	50.00- 150.00	100.00
18.227	18.227 (1.166)	70	103359			0.00- 62.07	11.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	622476			18.35- 118.35	69.91
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	418124	25.0000	27.590	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	567092			92.73- 192.73	135.63
22.789	22.789 (1.096)	176	395936			46.25- 146.25	94.69
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	2312042	200.000	196.20	50.00- 150.00	100.00
5.840	5.840 (0.421)	42	1618855			24.48- 124.48	70.02
5.840	5.840 (0.421)	39	1800389			30.62- 130.62	77.87
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	7430845	200.000	187.08	50.00- 150.00	100.00
5.950	5.950 (0.429)	87	2411201			0.00- 82.77	32.45
16 Freon 114					CAS #: 76-14-2		
6.337	6.337 (0.456)	135	5357544	200.000	158.23	50.00- 150.00	100.00
6.337	6.337 (0.456)	137	1681827			0.00- 80.13	31.39
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	2667055	200.000	187.04	50.00- 150.00	100.00
6.559	6.559 (0.472)	52	872301			0.00- 82.25	32.71
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	3090154	200.000	198.65	50.00- 150.00	100.00
6.918	6.918 (0.498)	64	970847			6.28- 106.28	31.42
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	3494348	200.000	164.64	50.00- 150.00	100.00
6.973	6.973 (0.502)	39	3546767			68.34- 168.34	101.50
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	2597685	200.000	205.45	50.00- 150.00	100.00(A)
7.941	7.941 (0.572)	96	2448704			52.08- 152.08	94.26
27 Chloroethane					CAS #: 75-00-3		
8.218	8.218 (0.592)	64	1588171	200.000	204.79	50.00- 150.00	100.00(A)
8.218	8.218 (0.592)	49	532956			0.00- 83.92	33.56
8.218	8.218 (0.592)	66	495254			0.00- 81.21	31.18
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.798	8.798 (0.634)	101	11959280	200.000	172.07	50.00- 150.00	100.00
8.798	8.798 (0.634)	103	7635954			15.39- 115.39	63.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.268	9.268 (0.667)	45	1434102	200.000	154.06	50.00- 150.00	100.00
9.268	9.268 (0.667)	43	300921			0.00- 76.10	20.98
9.268	9.268 (0.667)	46	536480			0.00- 85.59	37.41
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	8864567	200.000	193.34	50.00- 150.00	100.00
9.959	9.959 (0.717)	153	5608238			13.31- 113.31	63.27
9.959	9.959 (0.717)	101	12040289			85.79- 185.79	135.82
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	6115533	200.000	201.58	50.00- 150.00	100.00(A)
10.070	10.070 (0.725)	96	3133326			2.45- 102.45	51.24
10.070	10.070 (0.725)	98	1990043			0.00- 81.04	32.54
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	2048352	200.000	194.92	50.00- 150.00	100.00
10.208	10.208 (0.735)	43	7188096			306.72- 406.72	350.92
46 2-Propanol					CAS #: 67-63-0		
10.402	10.402 (0.749)	45	9696878	200.000	204.75	50.00- 150.00	100.00(A)
10.402	10.402 (0.749)	43	2004754			0.00- 76.17	20.67
10.402	10.402 (0.749)	59	350060			0.00- 53.25	3.61
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	8307214	200.000	208.38	50.00- 150.00	100.00(A)
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	1558260	200.000	217.93	50.00- 150.00	100.00(A)
10.844	10.844 (0.781)	41	5571736			346.11- 446.11	357.56
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	4053793	200.000	188.43	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	2429761			5.93- 105.93	59.94
11.121	11.121 (0.801)	51	1233569			0.00- 83.86	30.43
60 MTBE					CAS #: 1634-04-4		
11.453	11.453 (0.825)	73	6062844	200.000	177.36	50.00- 150.00	100.00
11.453	11.453 (0.825)	57	1558663			0.00- 74.23	25.71
11.453	11.453 (0.825)	41	1671543			0.00- 84.65	27.57
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	3329068	200.000	211.04	50.00- 150.00	100.00(A)
11.563	11.563 (0.833)	61	5556251			113.20- 213.20	166.90
11.563	11.563 (0.833)	98	2110541			11.14- 111.14	63.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.923	11.923 (0.859)	57	8887893	200.000	243.43	50.00- 150.00	100.00(A)
11.923	11.923 (0.859)	43	5990259			25.69- 125.69	67.40
11.923	11.923 (0.859)	86	1137236			0.00- 61.56	12.80
69 Vinyl Acetate					CAS #: 108-05-4		
12.393	12.393 (0.892)	86	811453	200.000	226.04	50.00- 150.00	100.00(A)
12.365	12.365 (0.890)	43	11874547			1612.40-1712.40	1463.37
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	7237155	200.000	212.78	50.00- 150.00	100.00(A)
12.393	12.393 (0.892)	65	2221092			0.00- 80.96	30.69
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	1539921	200.000	220.44	50.00- 150.00	100.00(A)
13.416	13.416 (0.966)	43	8066376			486.20- 586.20	523.82
13.416	13.416 (0.966)	57	602703			0.00- 87.31	39.14
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	4491258	200.000	210.18	50.00- 150.00	100.00(A)
13.443	13.443 (0.968)	96	2947168			16.27- 116.27	65.62
13.443	13.443 (0.968)	98	1878903			0.00- 91.48	41.83
80 Tetrahydrofuran					CAS #: 109-99-9		
13.886	13.886 (1.000)	42	4193244	200.000	201.02	50.00- 150.00	100.00(A)
13.886	13.886 (1.000)	71	1353765			0.00- 79.00	32.28
13.886	13.886 (1.000)	72	1463339			0.00- 80.46	34.90
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	6319495	200.000	204.61	50.00- 150.00	100.00(A)
13.969	13.969 (1.006)	85	3956924			16.08- 116.08	62.61
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	8225831	200.000	207.95	50.00- 150.00	100.00(A)
14.300	14.300 (1.030)	99	5273790			13.88- 113.88	64.11
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	5137023	200.000	232.55	50.00- 150.00	100.00(A)
14.300	14.300 (1.030)	56	7283668			96.03- 196.03	141.79
14.300	14.300 (1.030)	41	4081625			48.38- 148.38	79.46
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	7278924	200.000	205.11	50.00- 150.00	100.00(A)
14.549	14.549 (1.048)	117	7573617			52.00- 152.00	104.05
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	8741779	200.000	191.97	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.964	14.964 (0.958)	77	1926901			0.00- 71.98	22.04
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	24467180	200.000	235.76	50.00- 150.00	100.00(A)
14.881	14.881 (1.072)	56	8230281			0.00- 85.64	33.64
14.881	14.881 (1.072)	41	6594986			0.00- 83.48	26.95
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	4424511	200.000	192.98	50.00- 150.00	100.00
15.102	15.102 (0.966)	64	1377276			0.00- 82.98	31.13
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	3349117	200.000	228.08	50.00- 150.00	100.00(A)
15.185	15.185 (0.972)	43	7229984			176.84- 276.84	215.88
15.185	15.185 (0.972)	57	3809384			64.59- 164.59	113.74
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	3504742	200.000	199.43	50.00- 150.00	100.00
16.098	16.098 (1.030)	130	3248628			41.79- 141.79	92.69
16.098	16.098 (1.030)	97	2239051			15.62- 115.62	63.89
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	3562568	200.000	207.70	50.00- 150.00	100.00(A)
16.568	16.568 (1.060)	62	2622796			23.14- 123.14	73.62
16.568	16.568 (1.060)	41	2319107			31.51- 131.51	65.10
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	2163666	200.000	210.77	50.00- 150.00	100.00(A)
16.706	16.706 (1.069)	58	1739587			32.29- 132.29	80.40
16.706	16.706 (1.069)	57	587188			0.00- 79.47	27.14
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	6413665	200.000	193.66	50.00- 150.00	100.00
17.010	17.010 (1.088)	85	3960145			10.81- 110.81	61.75
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	4781826	200.000	211.88	50.00- 150.00	100.00(A)
17.784	17.784 (1.138)	77	1520578			0.00- 83.31	31.80
17.784	17.784 (1.138)	39	3122266			22.61- 122.61	65.29
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	3510752	200.000	239.57	50.00- 150.00	100.00(A)
17.978	17.978 (1.150)	43	9228201			230.40- 330.40	262.86
17.978	17.978 (1.150)	85	1205773			0.00- 84.16	34.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	9791968	200.000	211.07	50.00- 150.00	100.00(A)
18.337	18.337 (1.173)	92	6065400			14.45- 114.45	61.94
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	5259171	200.000	204.87	50.00- 150.00	100.00(A)
18.780	18.780 (0.903)	77	1675599			0.00- 85.14	31.86
18.780	18.780 (0.903)	39	3218123			18.67- 118.67	61.19
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	3721402	200.000	199.78	50.00- 150.00	100.00
19.111	19.111 (0.919)	99	2332841			14.35- 114.35	62.69
19.111	19.111 (0.919)	83	3214859			37.90- 137.90	86.39
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	4490548	200.000	197.88	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	3371885			27.07- 127.07	75.09
19.277	19.277 (0.927)	131	3214785			24.38- 124.38	71.59
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	4847034	200.000	218.70	50.00- 150.00	100.00(A)
19.443	19.443 (0.935)	43	9134494			155.81- 255.81	188.46
19.443	19.443 (0.935)	100	722321			0.00- 64.15	14.90
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	6556658	200.000	205.28	50.00- 150.00	100.00(A)
19.803	19.803 (0.952)	127	5082779			28.89- 128.89	77.52
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	6223433	200.000	206.37	50.00- 150.00	100.00(A)
20.079	20.079 (0.965)	109	5872083			47.12- 147.12	94.35
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	8481237	200.000	202.37	50.00- 150.00	100.00(A)
20.853	20.853 (1.003)	114	2691981			0.00- 83.78	31.74
20.853	20.853 (1.003)	77	5046502			24.40- 124.40	59.50
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	4435074	200.000	211.53	50.00- 150.00	100.00(A)
20.936	20.936 (1.007)	91	14074153			265.67- 365.67	317.34
129 m,p-Xylene					CAS #: 108-38-3		
21.157	21.157 (1.017)	106	5575634	200.000	221.33	50.00- 150.00	100.00(A)
21.157	21.157 (1.017)	91	11065075			151.06- 251.06	198.45
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	5098067	200.000	222.52	50.00- 150.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	10555767			170.45- 270.45	207.05
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	8558618	200.000	239.97	50.00- 150.00	100.00(A)
21.876	21.876 (1.052)	78	4397582			12.29- 112.29	51.38
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	6182631	200.000	214.35	50.00- 150.00	100.00(A)
22.291	22.291 (1.072)	171	3178184			1.68- 101.68	51.41
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	13357432	200.000	226.35	50.00- 150.00	100.00(A)
22.429	22.429 (1.078)	120	3451846			0.00- 75.19	25.84
22.429	22.429 (1.078)	51	1617002			0.00- 64.41	12.11
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	8402008	200.000	208.96	50.00- 150.00	100.00(A)
23.010	23.010 (1.106)	85	5215370			12.14- 112.14	62.07
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	16857510	200.000	232.30	50.00- 150.00	100.00(A)
23.121	23.121 (1.112)	120	3576443			0.00- 70.05	21.22
23.121	23.121 (1.112)	105	581784			0.00- 66.51	3.45
145 4-Ethyltoluene					CAS #: 622-96-8		
23.286	23.286 (1.120)	105	13933901	200.000	242.18	50.00- 150.00	100.00(A)
23.286	23.286 (1.120)	120	4070042			0.00- 80.34	29.21
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	11270202	200.000	227.11	50.00- 150.00	100.00(A)
23.397	23.397 (1.125)	120	5375778			0.00- 97.91	47.70
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	10284032	200.000	239.60	50.00- 150.00	100.00(A)
24.033	24.033 (1.156)	120	4720105			0.00- 92.97	45.90
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	7212464	200.000	231.45	50.00- 150.00	100.00(A)
24.586	24.586 (1.182)	148	4571429			13.45- 113.45	63.38
24.586	24.586 (1.182)	111	2999933			0.00- 93.47	41.59
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	7334004	200.000	231.29	50.00- 150.00	100.00(A)
24.752	24.752 (1.190)	148	4622274			13.03- 113.03	63.03
24.724	24.724 (1.189)	111	2917230			0.00- 89.21	39.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	10800524	200.000	251.67	50.00- 150.00	100.00(A)
24.945	24.945 (1.199)	126	2055175			0.00- 69.32	19.03
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	6573634	200.000	242.99	50.00- 150.00	100.00(A)
25.360	25.360 (1.219)	148	4129139			16.84- 116.84	62.81
25.360	25.360 (1.219)	111	2819449			0.00- 96.87	42.89
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	2990058	200.000	251.17	50.00- 150.00	100.00(A)
28.153	28.153 (1.354)	182	2822556			49.61- 149.61	94.40
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	3693647	200.000	212.03	50.00- 150.00	100.00(A)
28.319	28.319 (1.362)	223	2326478			12.39- 112.39	62.99
19 Butane					CAS #: 106-97-8		
6.835	6.835 (0.492)	58	731144	200.000	156.11	50.00- 150.00	100.00
6.835	6.835 (0.492)	43	6097297			840.77- 940.77	833.94
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	9318550	200.000	187.03	50.00- 150.00	100.00
8.273	8.273 (0.596)	57	5991935			10.13- 110.13	64.30
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	5805124	200.000	231.99	50.00- 150.00	100.00(A)
16.374	16.374 (1.179)	98	2604873			0.00- 93.08	44.87
16.374	16.374 (1.179)	55	5725324			52.63- 152.63	98.63
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	6864724	200.000	250.23	50.00- 150.00	100.00(A)
28.678	28.678 (1.379)	127	832455			0.00- 62.34	12.13

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082211.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	216168	2.84
97 1,4-Difluorobenze	855220	513132	1197308	900067	5.24
126 Chlorobenzene-d5	776619	465971	1087267	817455	5.26

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

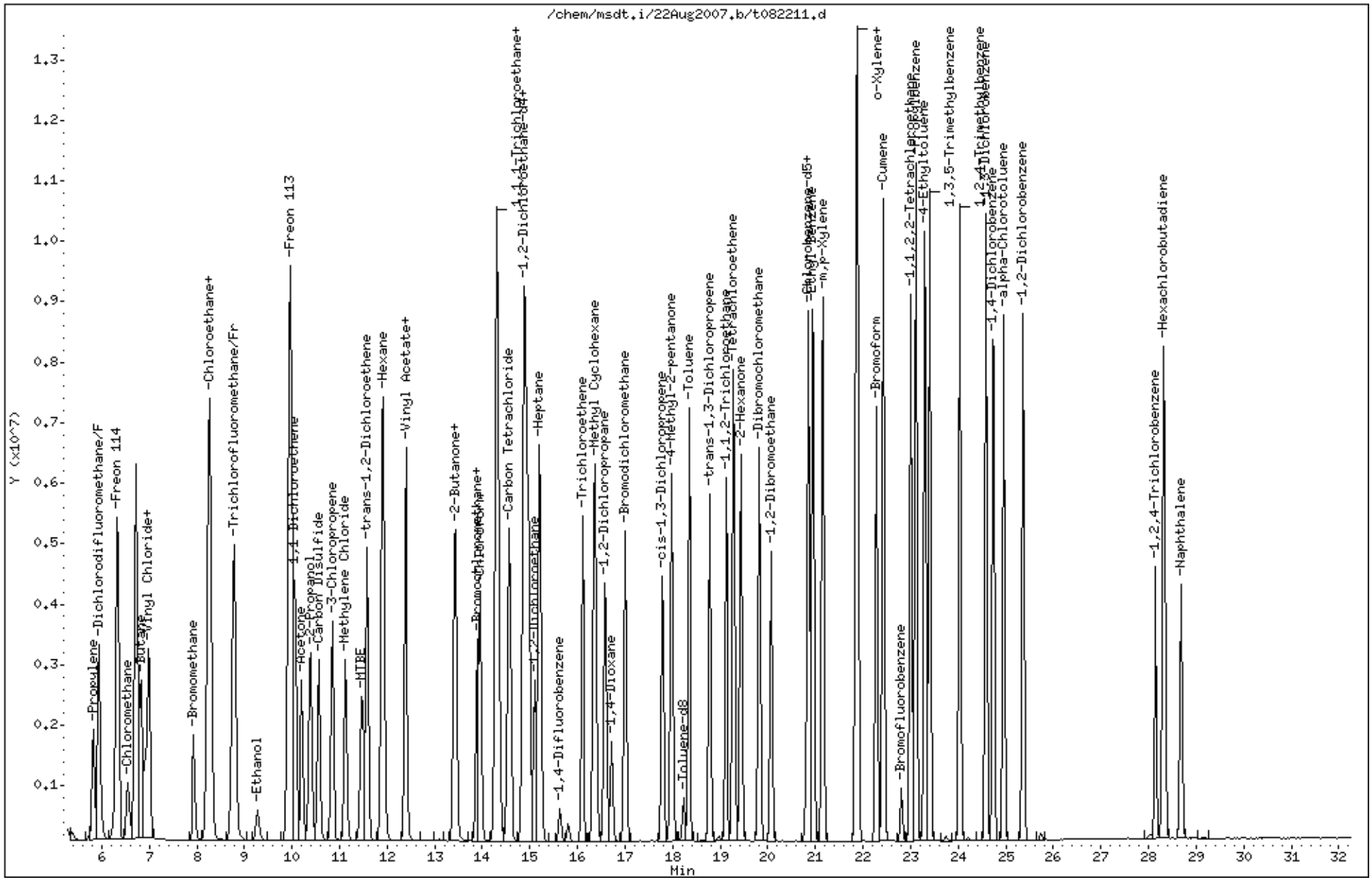
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdt.i/22Aug2007.b/t082211.d
Date : 22-AUG-2007 13:48
Client ID: Level 7
Sample Info: 200mL #1443-170

Instrument: msdt.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



0140

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0708221-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082209a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/07 12:29 PM**	

Compound	%Recovery
Freon 12	104
Freon 114	103
Vinyl Chloride	103
Bromomethane	102
Chloroethane	101
Freon 11	106
1,1-Dichloroethene	101
Freon 113	101
Methylene Chloride	99
1,1-Dichloroethane	104
cis-1,2-Dichloroethene	108
Chloroform	109
1,1,1-Trichloroethane	106
Carbon Tetrachloride	107
Benzene	103
1,2-Dichloroethane	108
Trichloroethene	108
1,2-Dichloropropane	109
cis-1,3-Dichloropropene	112
Toluene	109
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	106
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	109
Chlorobenzene	104
Ethyl Benzene	107
m,p-Xylene	110
o-Xylene	112
Styrene	117
1,1,2,2-Tetrachloroethane	106
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	107
1,3-Butadiene	101
Hexane	105
Cyclohexane	109

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0708221-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082209a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/07 12:29 PM**	

Compound	**%Recovery**
Heptane	112
Bromodichloromethane	109
Dibromochloromethane	110
Cumene	111
Propylbenzene	110
Chloromethane	97
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	90
Acetone	90
Carbon Disulfide	104
2-Propanol	97
trans-1,2-Dichloroethene	99
2-Butanone (Methyl Ethyl Ketone)	105
Tetrahydrofuran	104
1,4-Dioxane	107
4-Methyl-2-pentanone	116
2-Hexanone	106
Bromoform	110
4-Ethyltoluene	111
Ethanol	102
Methyl tert-butyl ether	108
3-Chloropropene	97
2,2,4-Trimethylpentane	104
Naphthalene	80

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdt.i Injection Date: 22-AUG-2007 12:29
Lab File ID: t082209a.d Init. Cal. Date(s): 22-AUG-2007 22-AUG-2007
Analysis Type: AIR Init. Cal. Times: 09:46 13:48
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdt.i/22Aug2007.b/t14q822a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 90 1,2-Dichloroethane-d4	1.90684	1.90727	0.010	-0.02258	30.00000	Averaged
$ 113 Toluene-d8	0.97365	0.99647	0.010	-2.34352	30.00000	Averaged
$ 137 Bromofluorobenzene	0.46349	0.46994	0.010	-1.39298	30.00000	Averaged
11 Propylene	1.36286	1.35206	0.010	0.79198	30.00000	Averaged
12 Dichlorodifluoromethane/Fr1	4.59372	4.77978	0.010	-4.05032	30.00000	Averaged
16 Freon 114	3.91590	4.02562	0.010	-2.80199	30.00000	Averaged
18 Chloromethane	1.64905	1.60306	0.010	2.78904	30.00000	Averaged
20 Vinyl Chloride	1.79907	1.85969	0.010	-3.36965	30.00000	Averaged
22 1,3-Butadiene	2.45464	2.48649	0.010	-1.29761	30.00000	Averaged
25 Bromomethane	1.46228	1.49828	0.010	-2.46184	30.00000	Averaged
27 Chloroethane	0.89689	0.90579	0.010	-0.99201	30.00000	Averaged
31 Trichlorofluoromethane/Fr11	8.03811	8.53864	0.010	-6.22699	30.00000	Averaged
38 Ethanol	1.07659	1.10119	0.010	-2.28570	30.00000	Averaged
42 Freon 113	5.30267	5.35168	0.010	-0.92430	30.00000	Averaged
43 1,1-Dichloroethene	3.50863	3.55610	0.010	-1.35295	30.00000	Averaged
45 Acetone	1.21535	1.09246	0.010	10.11155	30.00000	Averaged
46 2-Propanol	5.47709	5.33691	0.010	2.55951	30.00000	Averaged
47 Carbon Disulfide	4.61052	4.79059	0.010	-3.90576	30.00000	Averaged
51 3-Chloropropene	0.82694	0.80425	0.010	2.74332	30.00000	Averaged
54 Methylene Chloride	2.48799	2.46853	0.010	0.78233	30.00000	Averaged
60 MTBE	3.95348	4.27197	0.010	-8.05588	30.00000	Averaged
61 trans-1,2-Dichloroethene	1.82437	1.79890	0.010	1.39585	30.00000	Averaged
65 Hexane	4.22254	4.43013	0.010	-4.91631	30.00000	Averaged
69 Vinyl Acetate	0.41516	0.43402	0.010	-4.54192	30.00000	Averaged
70 1,1-Dichloroethane	3.93365	4.07664	0.010	-3.63513	30.00000	Averaged
75 2-Butanone	0.80790	0.85213	0.010	-5.47397	30.00000	Averaged
76 cis-1,2-Dichloroethene	2.47130	2.67553	0.010	-8.26371	30.00000	Averaged
80 Tetrahydrofuran	2.41250	2.49992	0.010	-3.62361	30.00000	Averaged
82 Chloroform	3.57189	3.89976	0.010	-9.17919	30.00000	Averaged
83 1,1,1-Trichloroethane	4.57476	4.83488	0.010	-5.68598	30.00000	Averaged
85 Cyclohexane	2.55475	2.78379	0.010	-8.96515	30.00000	Averaged
87 Carbon Tetrachloride	4.10417	4.37971	0.010	-6.71361	30.00000	Averaged
91 Benzene	1.26484	1.30161	0.010	-2.90761	30.00000	Averaged
89 2,2,4-Trimethylpentane	12.00217	12.43152	0.010	-3.57724	30.00000	Averaged
93 1,2-Dichloroethane	0.63683	0.68815	0.010	-8.05950	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdt.i Injection Date: 22-AUG-2007 12:29
Lab File ID: t082209a.d Init. Cal. Date(s): 22-AUG-2007 22-AUG-2007
Analysis Type: AIR Init. Cal. Times: 09:46 13:48
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdt.i/22Aug2007.b/t14q822a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
94 Heptane	0.40787	0.45743	0.010	-12.15291	30.00000	Averaged
101 Trichloroethene	0.48812	0.52832	0.010	-8.23437	30.00000	Averaged
104 1,2-Dichloropropane	0.47643	0.51848	0.010	-8.82623	30.00000	Averaged
106 1,4-Dioxane	0.28513	0.30531	0.010	-7.07602	30.00000	Averaged
107 Bromodichloromethane	0.91990	1.00721	0.010	-9.49174	30.00000	Averaged
110 cis-1,3-Dichloropropene	0.62685	0.70573	0.010	-12.58402	30.00000	Averaged
111 4-Methyl-2-pentanone	0.40704	0.47056	0.010	-15.60621	30.00000	Averaged
114 Toluene	1.28859	1.40809	0.010	-9.27375	30.00000	Averaged
116 trans-1,3-Dichloropropene	0.78509	0.86364	0.010	-10.00578	30.00000	Averaged
117 1,1,2-Trichloroethane	0.56968	0.60650	0.010	-6.46196	30.00000	Averaged
120 Tetrachloroethene	0.69403	0.73691	0.010	-6.17753	30.00000	Averaged
121 2-Hexanone	0.67779	0.72068	0.010	-6.32800	30.00000	Averaged
122 Dibromochloromethane	0.97680	1.07287	0.010	-9.83532	30.00000	Averaged
123 1,2-Dibromoethane	0.92226	1.00774	0.010	-9.26939	30.00000	Averaged
127 Chlorobenzene	1.28171	1.34006	0.010	-4.55232	30.00000	Averaged
128 Ethyl Benzene	0.64121	0.68870	0.010	-7.40658	30.00000	Averaged
129 m,p-Xylene	0.77042	0.84893	0.010	-10.19138	30.00000	Averaged
130 o-Xylene	0.70068	0.78413	0.010	-11.91058	30.00000	Averaged
131 Styrene	1.09073	1.27707	0.010	-17.08393	30.00000	Averaged
133 Bromoform	0.88213	0.97141	0.010	-10.12091	30.00000	Averaged
134 Cumene	1.80472	1.99757	0.010	-10.68568	30.00000	Averaged
140 1,1,2,2-Tetrachloroethane	1.22970	1.29752	0.010	-5.51580	30.00000	Averaged
142 Propylbenzene	2.21930	2.44290	0.010	-10.07536	30.00000	Averaged
145 4-Ethyltoluene	1.75957	1.94727	0.010	-10.66701	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.51763	1.66474	0.010	-9.69313	30.00000	Averaged
150 1,2,4-Trimethylbenzene	1.31268	1.44476	0.010	-10.06175	30.00000	Averaged
155 1,3-Dichlorobenzene	0.95302	0.99255	0.010	-4.14796	30.00000	Averaged
156 1,4-Dichlorobenzene	0.96974	1.00126	0.010	-3.25037	30.00000	Averaged
159 alpha-Chlorotoluene	1.31246	1.40245	0.010	-6.85634	30.00000	Averaged
161 1,2-Dichlorobenzene	0.82734	0.88453	0.010	-6.91159	30.00000	Averaged
165 1,2,4-Trichlorobenzene	0.36407	0.30559	0.010	16.06263	30.00000	Averaged
166 Hexachlorobutadiene	0.53276	0.47824	0.010	10.23472	30.00000	Averaged
19 Butane	0.54164	0.55376	0.010	-2.23821	30.00000	Averaged
29 Isopentane	5.76219	5.71991	0.010	0.73390	30.00000	Averaged
102 Methyl Cyclohexane	2.89396	3.20955	0.010	-10.90495	30.00000	Averaged
167 Naphthalene	0.83899	0.66924	0.010	20.23245	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082209a.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 22-AUG-2007 12:29
Operator : cb Inst ID: msdt.i
Smp Info : 50mL #1443-170
Misc Info : 200ppbv --> 50ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 14:23 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 13:48 Cal File: t082211.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane						CAS #: 74-97-5	
13.886	13.886 (1.000)	130	210206	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	159965			26.10- 126.10	76.10
13.886	13.886 (1.000)	49	583942			227.80- 327.80	277.80
* 97 1,4-Difluorobenzene						CAS #: 540-36-3	
15.628	15.628 (1.000)	114	855220	25.0000		80.00- 120.00	100.00
15.628	15.628 (1.000)	88	135413			0.00- 65.83	15.83
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
20.798	20.798 (1.000)	117	776619	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	471574			12.31- 112.31	60.72
$ 90 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.964	14.964 (1.078)	65	400920	25.0000	25.006	80.00- 120.00	100.00
14.964	14.964 (1.078)	67	228513			2.98- 102.98	57.00
$ 113 Toluene-d8						CAS #: 2037-26-5	
18.227	18.227 (1.166)	98	852203	25.0000	25.586	80.00- 120.00	100.00
18.227	18.227 (1.166)	70	105786			0.00- 62.07	12.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	579423			18.35- 118.35	67.99
$ 137 Bromofluorobenzene						CAS #: 460-00-4	
22.789	22.789 (1.096)	174	364966	25.0000	25.348	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	522679			93.21- 193.21	143.21
22.789	22.789 (1.096)	176	349252			45.69- 145.69	95.69
11 Propylene						CAS #: 115-07-1	
5.840	5.840 (0.421)	41	568423	50.0000	49.604	80.00- 120.00	100.00
5.840	5.840 (0.421)	42	396754			24.48- 124.48	69.80
5.840	5.840 (0.421)	39	441070			30.62- 130.62	77.60
12 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
5.950	5.950 (0.428)	85	2009475	50.0000	52.025	80.00- 120.00	100.00
5.950	5.950 (0.428)	87	643866			0.00- 82.77	32.04
16 Freon 114						CAS #: 76-14-2	
6.310	6.310 (0.454)	135	1692421	50.0000	51.401	80.00- 120.00	100.00
6.310	6.310 (0.454)	137	546156			0.00- 80.13	32.27
18 Chloromethane						CAS #: 74-87-3	
6.559	6.559 (0.472)	50	673944	50.0000	48.605	80.00- 120.00	100.00
6.559	6.559 (0.472)	52	215261			0.00- 82.25	31.94
20 Vinyl Chloride						CAS #: 75-01-4	
6.918	6.918 (0.498)	62	781835	50.0000	51.685	80.00- 120.00	100.00
6.918	6.918 (0.498)	64	265278			6.28- 106.28	33.93
22 1,3-Butadiene						CAS #: 106-99-0	
6.973	6.973 (0.502)	54	1045349	50.0000	50.649	80.00- 120.00	100.00
6.973	6.973 (0.502)	39	1136990			68.34- 168.34	108.77
25 Bromomethane						CAS #: 74-83-9	
7.941	7.941 (0.572)	94	629896	50.0000	51.231	80.00- 120.00	100.00
7.941	7.941 (0.572)	96	592723			44.10- 144.10	94.10
27 Chloroethane						CAS #: 75-00-3	
8.217	8.217 (0.592)	64	380803	50.0000	50.496	80.00- 120.00	100.00
8.217	8.217 (0.592)	49	134437			0.00- 83.92	35.30
8.217	8.217 (0.592)	66	117185			0.00- 81.21	30.77
31 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
8.798	8.798 (0.634)	101	3589747	50.0000	53.113	80.00- 120.00	100.00
8.798	8.798 (0.634)	103	2280136			13.52- 113.52	63.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.268	9.268 (0.667)	45	462955	50.0000	51.143	80.00- 120.00	100.00
9.268	9.268 (0.667)	43	104372			0.00- 76.10	22.54
9.268	9.268 (0.667)	46	183878			0.00- 85.59	39.72
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	2249912	50.0000	50.462	80.00- 120.00	100.00
9.959	9.959 (0.717)	153	1423359			13.26- 113.26	63.26
9.959	9.959 (0.717)	101	3122856			88.80- 188.80	138.80
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.070	10.070 (0.725)	61	1495029	50.0000	50.676	80.00- 120.00	100.00
10.070	10.070 (0.725)	96	739726			0.00- 99.48	49.48
10.070	10.070 (0.725)	98	470605			0.00- 81.48	31.48
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	459284	50.0000	44.944	80.00- 120.00	100.00
10.208	10.208 (0.735)	43	1764439			306.72- 406.72	384.17
46 2-Propanol					CAS #: 67-63-0		
10.402	10.402 (0.749)	45	2243699	50.0000	48.720	80.00- 120.00	100.00
10.402	10.402 (0.749)	43	514105			0.00- 76.17	22.91
10.402	10.402 (0.749)	59	75472			0.00- 53.25	3.36
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	2014022	50.0000	51.953	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	338117	50.0000	48.628	80.00- 120.00	100.00
10.844	10.844 (0.781)	41	1312003			346.11- 446.11	388.03
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	1037799	50.0000	49.609	80.00- 120.00	100.00
11.121	11.121 (0.801)	84	601427			7.95- 107.95	57.95
11.121	11.121 (0.801)	51	306890			0.00- 83.86	29.57
60 MTBE					CAS #: 1634-04-4		
11.480	11.480 (0.827)	73	1795988	50.0000	54.028	80.00- 120.00	100.00
11.480	11.480 (0.827)	57	451586			0.00- 75.14	25.14
11.480	11.480 (0.827)	41	546879			0.00- 84.65	30.45
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	756280	50.0000	49.302	80.00- 120.00	100.00
11.563	11.563 (0.833)	61	1317756			124.24- 224.24	174.24
11.563	11.563 (0.833)	98	486529			11.14- 111.14	64.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.922	11.922 (0.859)	57	1862479	50.0000	52.458	80.00- 120.00	100.00
11.922	11.922 (0.859)	43	1308766			25.69- 125.69	70.27
11.922	11.922 (0.859)	86	227213			0.00- 61.56	12.20
69 Vinyl Acetate					CAS #: 108-05-4		
12.393	12.393 (0.892)	86	182466	50.0000	52.271	80.00- 120.00	100.00
12.393	12.393 (0.892)	43	2767983			1612.40-1712.40	1516.99
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	1713868	50.0000	51.818	80.00- 120.00	100.00
12.393	12.393 (0.892)	65	532573			0.00- 81.07	31.07
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	358244	50.0000	52.737	80.00- 120.00	100.00
13.416	13.416 (0.966)	43	1974402			501.13- 601.13	551.13
13.416	13.416 (0.966)	57	143055			0.00- 87.31	39.93
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	1124823	50.0000	54.132	80.00- 120.00	100.00
13.443	13.443 (0.968)	96	707150			12.87- 112.87	62.87
13.443	13.443 (0.968)	98	442325			0.00- 89.32	39.32
80 Tetrahydrofuran					CAS #: 109-99-9		
13.886	13.886 (1.000)	42	1050997	50.0000	51.812	80.00- 120.00	100.00
13.886	13.886 (1.000)	71	324151			0.00- 80.84	30.84
13.886	13.886 (1.000)	72	352048			0.00- 80.46	33.50
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	1639507	50.0000	54.590	80.00- 120.00	100.00
13.969	13.969 (1.006)	85	1023542			12.43- 112.43	62.43
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	2032641	50.0000	52.843	80.00- 120.00	100.00
14.300	14.300 (1.030)	99	1324130			15.14- 115.14	65.14
85 Cyclohexane					CAS #: 110-82-7		
14.328	14.328 (1.032)	84	1170338	50.0000	54.482	80.00- 120.00	100.00
14.300	14.300 (1.030)	56	1651700			91.13- 191.13	141.13
14.300	14.300 (1.030)	41	992093			34.77- 134.77	84.77
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	1841282	50.0000	53.357	80.00- 120.00	100.00
14.549	14.549 (1.048)	117	1925342			54.57- 154.57	104.57
91 Benzene					CAS #: 71-43-2		
14.992	14.992 (0.959)	78	2226334	50.0000	51.454	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.992	14.992 (0.959)	77	486023			0.00- 71.98	21.83
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	5226359	50.0000	51.789	80.00- 120.00	100.00
14.881	14.881 (1.072)	56	1759218			0.00- 85.64	33.66
14.881	14.881 (1.072)	41	1521515			0.00- 83.48	29.11
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	1177042	50.0000	54.030	80.00- 120.00	100.00
15.102	15.102 (0.966)	64	372221			0.00- 82.98	31.62
94 Heptane					CAS #: 142-82-5		
15.213	15.213 (0.973)	71	782412	50.0000	56.076	80.00- 120.00	100.00
15.185	15.185 (0.972)	43	1720731			176.84- 276.84	219.93
15.213	15.213 (0.973)	57	866331			64.59- 164.59	110.73
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	903653	50.0000	54.117	80.00- 120.00	100.00
16.098	16.098 (1.030)	130	837373			42.67- 142.67	92.67
16.098	16.098 (1.030)	97	585718			14.82- 114.82	64.82
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	886826	50.0000	54.413	80.00- 120.00	100.00
16.568	16.568 (1.060)	62	651374			23.45- 123.45	73.45
16.568	16.568 (1.060)	41	616474			19.51- 119.51	69.51
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	522210	50.0000	53.538	80.00- 120.00	100.00
16.706	16.706 (1.069)	58	423298			31.06- 131.06	81.06
16.706	16.706 (1.069)	57	146630			0.00- 79.47	28.08
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	1722780	50.0000	54.746	80.00- 120.00	100.00
17.010	17.010 (1.088)	85	1061179			11.60- 111.60	61.60
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	1207114	50.0000	56.292	80.00- 120.00	100.00
17.784	17.784 (1.138)	77	384952			0.00- 81.89	31.89
17.784	17.784 (1.138)	39	806227			16.79- 116.79	66.79
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	804872	50.0000	57.803	80.00- 120.00	100.00
17.978	17.978 (1.150)	43	2192463			230.40- 330.40	272.40
17.978	17.978 (1.150)	85	279895			0.00- 84.16	34.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	2408451	50.0000	54.637	80.00- 120.00	100.00
18.337	18.337 (1.173)	92	1527291			13.41- 113.41	63.41
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	1341443	50.0000	55.003	80.00- 120.00	100.00
18.780	18.780 (0.903)	77	423894			0.00- 81.60	31.60
18.780	18.780 (0.903)	39	827888			11.72- 111.72	61.72
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	942034	50.0000	53.231	80.00- 120.00	100.00
19.111	19.111 (0.919)	99	587377			12.35- 112.35	62.35
19.111	19.111 (0.919)	83	814431			36.45- 136.45	86.45
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	1144592	50.0000	53.089	80.00- 120.00	100.00
19.277	19.277 (0.927)	129	870097			26.02- 126.02	76.02
19.277	19.277 (0.927)	131	827577			22.30- 122.30	72.30
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	1119395	50.0000	53.164	80.00- 120.00	100.00
19.443	19.443 (0.935)	43	2237539			149.89- 249.89	199.89
19.443	19.443 (0.935)	100	169206			0.00- 64.15	15.12
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	1666427	50.0000	54.918	80.00- 120.00	100.00
19.803	19.803 (0.952)	127	1277187			28.89- 128.89	76.64
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	1565266	50.0000	54.635	80.00- 120.00	100.00
20.079	20.079 (0.965)	109	1475196			44.25- 144.25	94.25
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	2081432	50.0000	52.276	80.00- 120.00	100.00
20.853	20.853 (1.003)	114	667095			0.00- 82.05	32.05
20.853	20.853 (1.003)	77	1276409			11.32- 111.32	61.32
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	1069713	50.0000	53.703	80.00- 120.00	100.00
20.964	20.964 (1.008)	91	3417817			265.67- 365.67	319.51
129 m,p-Xylene					CAS #: 108-38-3		
21.157	21.157 (1.017)	106	1318592	50.0000	55.096	80.00- 120.00	100.00
21.157	21.157 (1.017)	91	2688764			151.06- 251.06	203.91
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	1217943	50.0000	55.955	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)							
21.849	21.849 (1.051)	91	2561933			160.35- 260.35	210.35
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	1983586	50.0000	58.542	80.00- 120.00	100.00
21.876	21.876 (1.052)	78	1073105			4.10- 104.10	54.10
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	1508828	50.0000	55.060	80.00- 120.00	100.00
22.291	22.291 (1.072)	171	778603			1.60- 101.60	51.60
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	3102704	50.0000	55.343	80.00- 120.00	100.00
22.429	22.429 (1.078)	120	798284			0.00- 75.19	25.73
22.429	22.429 (1.078)	51	388423			0.00- 64.41	12.52
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	2015363	50.0000	52.758	80.00- 120.00	100.00
23.010	23.010 (1.106)	85	1252528			12.15- 112.15	62.15
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	3794407	50.0000	55.038	80.00- 120.00	100.00
23.121	23.121 (1.112)	120	804183			0.00- 70.05	21.19
23.121	23.121 (1.112)	105	146340			0.00- 66.51	3.86
145 4-Ethyltoluene					CAS #: 622-96-8		
23.286	23.286 (1.120)	105	3024568	50.0000	55.334	80.00- 120.00	100.00
23.314	23.314 (1.121)	120	890991			0.00- 79.46	29.46
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	2585730	50.0000	54.846	80.00- 120.00	100.00
23.397	23.397 (1.125)	120	1227801			0.00- 97.91	47.48
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	2244057	50.0000	55.031	80.00- 120.00	100.00
24.033	24.033 (1.156)	120	1022459			0.00- 92.97	45.56
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	1541666	50.0000	52.074	80.00- 120.00	100.00
24.586	24.586 (1.182)	148	994865			13.45- 113.45	64.53
24.586	24.586 (1.182)	111	660074			0.00- 93.47	42.82
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	1555199	50.0000	51.625	80.00- 120.00	100.00
24.752	24.752 (1.190)	148	991741			13.03- 113.03	63.77
24.752	24.752 (1.190)	111	639264			0.00- 89.21	41.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	2178339	50.0000	53.428	80.00- 120.00	100.00
24.945	24.945 (1.199)	126	404057			0.00- 69.32	18.55
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	1373880	50.0000	53.456	80.00- 120.00	100.00
25.360	25.360 (1.219)	148	872391			13.50- 113.50	63.50
25.360	25.360 (1.219)	111	602410			0.00- 93.85	43.85
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	474658	50.0000	41.969	80.00- 120.00	100.00
28.153	28.153 (1.354)	182	458768			46.65- 146.65	96.65
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	742813	50.0000	44.883	80.00- 120.00	100.00
28.319	28.319 (1.362)	223	468936			12.39- 112.39	63.13
19 Butane					CAS #: 106-97-8		
6.807	6.807 (0.490)	58	232807	50.0000	51.119	80.00- 120.00	100.00
6.807	6.807 (0.490)	43	2039561			840.77- 940.77	876.07
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	2404717	50.0000	49.633	80.00- 120.00	100.00
8.273	8.273 (0.596)	57	1452220			10.13- 110.13	60.39
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	1349333	50.0000	55.452	80.00- 120.00	100.00
16.374	16.374 (1.179)	98	599786			0.00- 93.08	44.45
16.374	16.374 (1.179)	55	1317073			52.63- 152.63	97.61
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	1039491	50.0000	39.884	80.00- 120.00	100.00
28.678	28.678 (1.379)	127	129105			0.00- 62.34	12.42

Report Date: 22-Aug-2007 14:23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082209a.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 50ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	210206	0.00
97 1,4-Difluorobenze	855220	513132	1197308	855220	0.00
126 Chlorobenzene-d5	776619	465971	1087267	776619	0.00

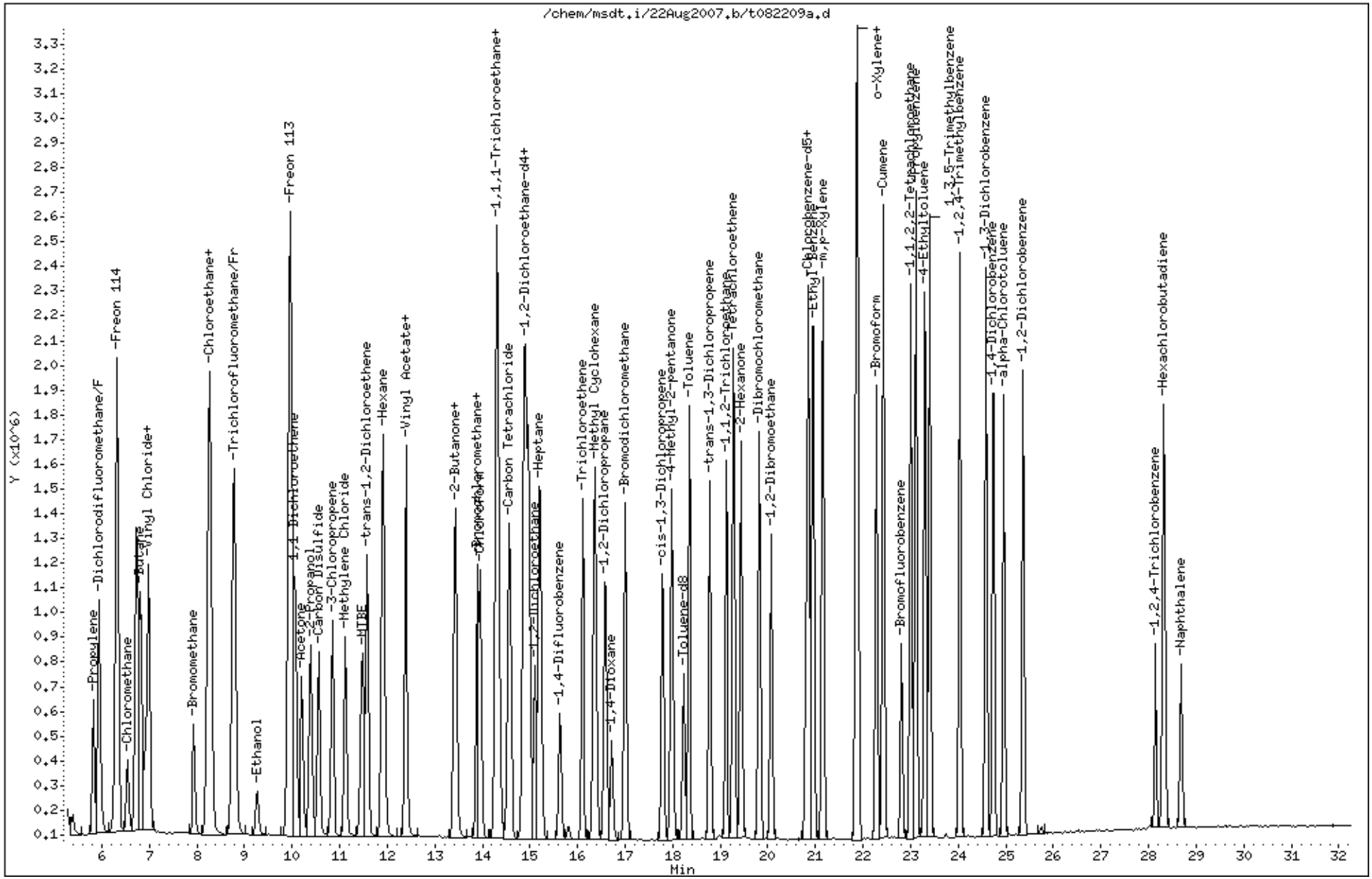
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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

Data File: /chem/msdt.i/22Aug2007.b/t082209a.d
Date : 22-AUG-2007 12:29
Client ID: CCV
Sample Info: 50mL #1443-170

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

Column phase: RTx-624



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0708221-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082213**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/07 03:13 PM**	

Compound	%Recovery
Freon 12	96
Freon 114	110
Vinyl Chloride	102
Bromomethane	104
Chloroethane	102
Freon 11	104
1,1-Dichloroethene	108
Freon 113	114
Methylene Chloride	102
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	107
Chloroform	105
1,1,1-Trichloroethane	102
Carbon Tetrachloride	100
Benzene	100
1,2-Dichloroethane	102
Trichloroethene	105
1,2-Dichloropropane	106
cis-1,3-Dichloropropene	108
Toluene	108
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	103
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	107
Chlorobenzene	104
Ethyl Benzene	109
m,p-Xylene	113
o-Xylene	115
Styrene	116
1,1,2,2-Tetrachloroethane	105
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	114
1,3-Butadiene	113
Hexane	110
Cyclohexane	114

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0708221-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t082213**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/07 03:13 PM**	

Compound	%Recovery
Heptane	109
Bromodichloromethane	101
Dibromochloromethane	107
Cumene	112
Propylbenzene	112
Chloromethane	92
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	102
Acetone	102
Carbon Disulfide	106
2-Propanol	105
trans-1,2-Dichloroethene	107
2-Butanone (Methyl Ethyl Ketone)	107
Tetrahydrofuran	99
1,4-Dioxane	104
4-Methyl-2-pentanone	114
2-Hexanone	105
Bromoform	108
4-Ethyltoluene	116
Ethanol	99
Methyl tert-butyl ether	90
3-Chloropropene	109
2,2,4-Trimethylpentane	114
Naphthalene	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	103	70-130

Report Date: 22-Aug-2007 15:37

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 22Aug2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	47.855	95.71	70-130
16 Freon 114	50.000	54.874	109.75	70-130
18 Chloromethane	50.000	46.016	92.03	70-130
20 Vinyl Chloride	50.000	50.957	101.91	70-130
22 1,3-Butadiene	50.000	56.646	113.29	60-140
25 Bromomethane	50.000	51.934	103.87	70-130
27 Chloroethane	50.000	51.085	102.17	70-130
31 Trichlorofluoromet	50.000	52.048	104.10	70-130
38 Ethanol	50.000	49.598	99.20	60-140
42 Freon 113	50.000	57.009	114.02	70-130
43 1,1-Dichloroethene	50.000	54.057	108.11	70-130
45 Acetone	50.000	51.046	102.09	60-140
47 Carbon Disulfide	50.000	53.067	106.13	60-140
46 2-Propanol	50.000	52.351	104.70	60-140
54 Methylene Chloride	50.000	50.935	101.87	70-130
60 MTBE	50.000	44.810	89.62	60-140
61 trans-1,2-Dichloro	50.000	53.544	107.09	60-140
65 Hexane	50.000	55.024	110.05	60-140
70 1,1-Dichloroethane	50.000	52.929	105.86	70-130
76 cis-1,2-Dichloroet	50.000	53.424	106.85	70-130
75 2-Butanone	50.000	53.392	106.78	60-140
80 Tetrahydrofuran	50.000	49.487	98.97	60-140
82 Chloroform	50.000	52.616	105.23	70-130
85 Cyclohexane	50.000	57.253	114.51	60-140
83 1,1,1-Trichloroeth	50.000	50.978	101.96	70-130
87 Carbon Tetrachlori	50.000	49.818	99.64	70-130
91 Benzene	50.000	49.914	99.83	70-130
93 1,2-Dichloroethane	50.000	50.916	101.83	70-130
94 Heptane	50.000	54.489	108.98	60-140
101 Trichloroethene	50.000	52.684	105.37	70-130
104 1,2-Dichloropropan	50.000	52.904	105.81	70-130
106 1,4-Dioxane	50.000	51.849	103.70	60-140
107 Bromodichlorometha	50.000	50.348	100.70	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
110 cis-1,3-Dichloropr	50.000	53.915	107.83	70-130
111 4-Methyl-2-pentano	50.000	57.044	114.09	60-140
114 Toluene	50.000	53.874	107.75	70-130
116 trans-1,3-Dichloro	50.000	52.520	105.04	70-130
117 1,1,2-Trichloroeth	50.000	51.616	103.23	70-130
120 Tetrachloroethene	50.000	52.865	105.73	70-130
121 2-Hexanone	50.000	52.641	105.28	60-140
122 Dibromochlorometha	50.000	53.360	106.72	60-140
123 1,2-Dibromoethane	50.000	53.500	107.00	70-130
127 Chlorobenzene	50.000	52.257	104.51	70-130
128 Ethyl Benzene	50.000	54.483	108.97	70-130
129 m,p-Xylene	50.000	56.569	113.14	70-130
130 o-Xylene	50.000	57.439	114.88	70-130
131 Styrene	50.000	57.948	115.90	70-130
133 Bromoform	50.000	53.771	107.54	60-140
140 1,1,2,2-Tetrachlor	50.000	52.434	104.87	70-130
145 4-Ethyltoluene	50.000	57.833	115.67	60-140
147 1,3,5-Trimethylben	50.000	55.960	111.92	70-130
150 1,2,4-Trimethylben	50.000	57.104	114.21	70-130
155 1,3-Dichlorobenzen	50.000	55.851	111.70	70-130
156 1,4-Dichlorobenzen	50.000	55.054	110.11	70-130
159 alpha-Chlorotoluen	50.000	55.414	110.83	70-130
161 1,2-Dichlorobenzen	50.000	56.964	113.93	70-130
165 1,2,4-Trichloroben	50.000	48.206	96.41	70-130
166 Hexachlorobutadien	50.000	51.188	102.38	70-130
142 Propylbenzene	50.000	56.000	112.00	60-140
134 Cumene	50.000	56.153	112.31	60-140
51 3-Chloropropene	50.000	54.426	108.85	60-140
89 2,2,4-Trimethylpen	50.000	57.093	114.19	60-140
19 Butane	50.000	54.069	108.14	70-130
29 Isopentane	50.000	51.192	102.38	70-130
102 Methyl Cyclohexane	50.000	55.691	111.38	70-130
11 Propylene	50.000	48.230	96.46	60-140
167 Naphthalene	50.000	42.943	85.89	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	22.927	91.71	70-130
$ 113 Toluene-d8	25.000	25.042	100.17	70-130
$ 137 Bromofluorobenzene	25.000	25.724	102.90	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/22Aug2007.b/t082213.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 22-AUG-2007 15:13
Operator : cb Inst ID: msdt.i
Smp Info : 50mL #1443-164
Misc Info : 200ppbv --> 50ppbv
Comment :
Method : /chem/msdt.i/22Aug2007.b/t14q822a.m
Meth Date : 22-Aug-2007 14:23 lover Quant Type: ISTD
Cal Date : 22-AUG-2007 13:48 Cal File: t082211.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	216677	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	164801			26.10- 126.10	76.06
13.886	13.886 (1.000)	49	569445			227.80- 327.80	262.81
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	896057	25.0000		80.00- 120.00	100.00
15.628	15.628 (1.000)	88	146575			0.00- 65.83	16.36
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	803259	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	476079			12.31- 112.31	59.27
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.964	14.964 (1.078)	65	378907	22.9269	22.927	80.00- 120.00	100.00
14.964	14.964 (1.078)	67	216313			2.98- 102.98	57.09
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.227	18.227 (1.166)	98	873914	25.0420	25.042	80.00- 120.00	100.00
18.227	18.227 (1.166)	70	101690			0.00- 62.07	11.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	594726			18.35- 118.35	68.05
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	383081	25.7240	25.724	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	530632			93.21- 193.21	138.52
22.789	22.789 (1.096)	176	367728			45.69- 145.69	95.99
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	569687	48.2296	48.230	80.00- 120.00	100.00
5.840	5.840 (0.421)	42	395181			24.48- 124.48	69.37
5.840	5.840 (0.421)	39	435083			30.62- 130.62	76.37
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	1905320	47.8554	47.855	80.00- 120.00	100.00
5.950	5.950 (0.429)	87	618261			0.00- 82.77	32.45
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	1862397	54.8741	54.874	80.00- 120.00	100.00
6.310	6.310 (0.454)	137	597688			0.00- 80.13	32.09
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	657674	46.0155	46.016	80.00- 120.00	100.00
6.559	6.559 (0.472)	52	215245			0.00- 82.25	32.73
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	794561	50.9574	50.957	80.00- 120.00	100.00
6.918	6.918 (0.498)	64	262468			6.28- 106.28	33.03
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	1205125	56.6464	56.646	80.00- 120.00	100.00
6.973	6.973 (0.502)	39	1209256			68.34- 168.34	100.34
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	658193	51.9337	51.934	80.00- 120.00	100.00
7.941	7.941 (0.572)	96	620449			44.10- 144.10	94.27
27 Chloroethane					CAS #: 75-00-3		
8.218	8.217 (0.592)	64	397106	51.0852	51.085	80.00- 120.00	100.00
8.218	8.217 (0.592)	49	134244			0.00- 83.92	33.81
8.218	8.217 (0.592)	66	127059			0.00- 81.21	32.00
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.798 (0.632)	101	3626008	52.0478	52.048	80.00- 120.00	100.00
8.771	8.798 (0.632)	103	2332467			13.52- 113.52	64.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.268 (0.665)	45	462793	49.5981	49.598	80.00- 120.00	100.00
9.241	9.268 (0.665)	43	107350			0.00- 76.10	23.20
9.241	9.268 (0.665)	46	173047			0.00- 85.59	37.39
42 Freon 113					CAS #: 76-13-1		
9.960	9.959 (0.717)	151	2620076	57.0094	57.009	80.00- 120.00	100.00
9.960	9.959 (0.717)	153	1671593			13.26- 113.26	63.80
9.932	9.959 (0.715)	101	3564035			88.80- 188.80	136.03
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.070 (0.723)	61	1643852	54.0570	54.057	80.00- 120.00	100.00
10.042	10.070 (0.723)	96	853821			0.00- 99.48	51.94
10.042	10.070 (0.723)	98	549154			0.00- 81.48	33.41
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	537699	51.0463	51.046	80.00- 120.00	100.00
10.208	10.208 (0.735)	43	1931494			306.72- 406.72	359.21
46 2-Propanol					CAS #: 67-63-0		
10.374	10.402 (0.747)	45	2485112	52.3508	52.351	80.00- 120.00	100.00
10.374	10.402 (0.747)	43	527731			0.00- 76.17	21.24
10.374	10.402 (0.747)	59	87893			0.00- 53.25	3.54
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	2120556	53.0674	53.067	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	390077	54.4258	54.426	80.00- 120.00	100.00
10.844	10.844 (0.781)	41	1374063			346.11- 446.11	352.25
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	1098338	50.9347	50.935	80.00- 120.00	100.00
11.121	11.121 (0.801)	84	651632			7.95- 107.95	59.33
11.121	11.121 (0.801)	51	334996			0.00- 83.86	30.50
60 MTBE					CAS #: 1634-04-4		
11.453	11.480 (0.825)	73	1535431	44.8103	44.810	80.00- 120.00	100.00
11.453	11.480 (0.825)	57	403518			0.00- 75.14	26.28
11.453	11.480 (0.825)	41	438591			0.00- 84.65	28.56
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	846634	53.5440	53.544	80.00- 120.00	100.00
11.563	11.563 (0.833)	61	1400554			124.24- 224.24	165.43
11.563	11.563 (0.833)	98	539168			11.14- 111.14	63.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.922 (0.857)	57	2013698	55.0235	55.024	80.00- 120.00	100.00
11.895	11.922 (0.857)	43	1370481			25.69- 125.69	68.06
11.923	11.922 (0.859)	86	260158			0.00- 61.56	12.92
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.393 (0.890)	86	201799	56.0828	56.083	80.00- 120.00	100.00
12.365	12.393 (0.890)	43	2853962			1612.40-1712.40	1414.26
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	1804509	52.9287	52.929	80.00- 120.00	100.00
12.393	12.393 (0.892)	65	550087			0.00- 81.07	30.48
75 2-Butanone					CAS #: 78-93-3		
13.416	13.416 (0.966)	72	373861	53.3923	53.392	80.00- 120.00	100.00
13.416	13.416 (0.966)	43	1985999			501.13- 601.13	531.21
13.416	13.416 (0.966)	57	149562			0.00- 87.31	40.00
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	1144287	53.4239	53.424	80.00- 120.00	100.00
13.443	13.443 (0.968)	96	743762			12.87- 112.87	65.00
13.443	13.443 (0.968)	98	479391			0.00- 89.32	41.89
80 Tetrahydrofuran					CAS #: 109-99-9		
13.886	13.886 (1.000)	42	1034741	49.4870	49.487	80.00- 120.00	100.00
13.886	13.886 (1.000)	71	339326			0.00- 80.84	32.79
13.886	13.886 (1.000)	72	366970			0.00- 80.46	35.46
82 Chloroform					CAS #: 67-66-3		
13.969	13.969 (1.006)	83	1628884	52.6161	52.616	80.00- 120.00	100.00
13.969	13.969 (1.006)	85	1022285			12.43- 112.43	62.76
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	2021262	50.9779	50.978	80.00- 120.00	100.00
14.300	14.300 (1.030)	99	1304616			15.14- 115.14	64.54
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.328 (1.030)	84	1267703	57.2527	57.253	80.00- 120.00	100.00
14.300	14.300 (1.030)	56	1747363			91.13- 191.13	137.84
14.300	14.300 (1.030)	41	995204			34.77- 134.77	78.50
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	1772092	49.8182	49.818	80.00- 120.00	100.00
14.549	14.549 (1.048)	117	1868815			54.57- 154.57	105.46
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	5939015	57.0929	57.093	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)							
14.881	14.881 (1.072)	56	2006572			0.00- 85.64	33.79
14.881	14.881 (1.072)	41	1633969			0.00- 83.48	27.51
91 Benzene					CAS #: 71-43-2		
14.964	14.992 (0.958)	78	2262831	49.9139	49.914	80.00- 120.00	100.00
14.964	14.992 (0.958)	77	494693			0.00- 71.98	21.86
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	1162165	50.9156	50.916	80.00- 120.00	100.00
15.102	15.102 (0.966)	64	358586			0.00- 82.98	30.85
94 Heptane					CAS #: 142-82-5		
15.185	15.213 (0.972)	71	796568	54.4892	54.489	80.00- 120.00	100.00
15.185	15.185 (0.972)	43	1710122			176.84- 276.84	214.69
15.185	15.213 (0.972)	57	891132			64.59- 164.59	111.87
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	921720	52.6835	52.684	80.00- 120.00	100.00
16.098	16.098 (1.030)	130	855153			42.67- 142.67	92.78
16.098	16.098 (1.030)	97	598697			14.82- 114.82	64.95
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	903395	52.9036	52.904	80.00- 120.00	100.00
16.568	16.568 (1.060)	62	672452			23.45- 123.45	74.44
16.568	16.568 (1.060)	41	596833			19.51- 119.51	66.07
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	529884	51.8490	51.849	80.00- 120.00	100.00
16.706	16.706 (1.069)	58	427595			31.06- 131.06	80.70
16.706	16.706 (1.069)	57	148118			0.00- 79.47	27.95
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	1660041	50.3480	50.348	80.00- 120.00	100.00
17.010	17.010 (1.088)	85	1030716			11.60- 111.60	62.09
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	1211340	53.9146	53.915	80.00- 120.00	100.00
17.784	17.784 (1.138)	77	381787			0.00- 81.89	31.52
17.784	17.784 (1.138)	39	795523			16.79- 116.79	65.67
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	832232	57.0441	57.044	80.00- 120.00	100.00
17.978	17.978 (1.150)	43	2174071			230.40- 330.40	261.23
17.978	17.978 (1.150)	85	289138			0.00- 84.16	34.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	2488237	53.8743	53.874	80.00- 120.00	100.00
18.337	18.337 (1.173)	92	1554068			13.41- 113.41	62.46
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	1324835	52.5203	52.520	80.00- 120.00	100.00
18.780	18.780 (0.903)	77	418454			0.00- 81.60	31.59
18.780	18.780 (0.903)	39	815084			11.72- 111.72	61.52
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	944782	51.6157	51.616	80.00- 120.00	100.00
19.111	19.111 (0.919)	99	597470			12.35- 112.35	63.24
19.111	19.111 (0.919)	83	830931			36.45- 136.45	87.95
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	1178860	52.8648	52.865	80.00- 120.00	100.00
19.277	19.277 (0.927)	129	883581			26.02- 126.02	74.95
19.277	19.277 (0.927)	131	839214			22.30- 122.30	71.19
121 2-Hexanone					CAS #: 591-78-6		
19.443	19.443 (0.935)	58	1146400	52.6408	52.641	80.00- 120.00	100.00
19.443	19.443 (0.935)	43	2204046			149.89- 249.89	192.26
19.443	19.443 (0.935)	100	173997			0.00- 64.15	15.18
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	1674710	53.3602	53.360	80.00- 120.00	100.00
19.803	19.803 (0.952)	127	1289831			28.89- 128.89	77.02
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	1585347	53.5004	53.500	80.00- 120.00	100.00
20.079	20.079 (0.965)	109	1497676			44.25- 144.25	94.47
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	2152025	52.2566	52.257	80.00- 120.00	100.00
20.853	20.853 (1.003)	114	687261			0.00- 82.05	31.94
20.853	20.853 (1.003)	77	1299159			11.32- 111.32	60.37
128 Ethyl Benzene					CAS #: 100-41-4		
20.964	20.964 (1.008)	106	1122467	54.4828	54.483	80.00- 120.00	100.00
20.936	20.964 (1.007)	91	3508995			265.67- 365.67	312.61
129 m,p-Xylene					CAS #: 108-38-3		
21.158	21.157 (1.017)	106	1400284	56.5686	56.569	80.00- 120.00	100.00
21.158	21.157 (1.017)	91	2750942			151.06- 251.06	196.46
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	1293125	57.4390	57.439	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)							
21.849	21.849 (1.051)	91	2628934			160.35- 260.35	203.30
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	2030818	57.9482	57.948	80.00- 120.00	100.00
21.876	21.876 (1.052)	78	1050702			4.10- 104.10	51.74
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	1524043	53.7712	53.771	80.00- 120.00	100.00
22.291	22.291 (1.072)	171	780088			1.60- 101.60	51.19
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	3256092	56.1526	56.153	80.00- 120.00	100.00
22.429	22.429 (1.078)	120	833204			0.00- 75.19	25.59
22.429	22.429 (1.078)	51	403284			0.00- 64.41	12.39
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	2071684	52.4337	52.434	80.00- 120.00	100.00
23.010	23.010 (1.106)	85	1298650			12.15- 112.15	62.69
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	3993219	56.0005	56.000	80.00- 120.00	100.00
23.121	23.121 (1.112)	120	862381			0.00- 70.05	21.60
23.121	23.121 (1.112)	105	155206			0.00- 66.51	3.89
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.286 (1.120)	105	3269608	57.8326	57.833	80.00- 120.00	100.00
23.287	23.314 (1.120)	120	967888			0.00- 79.46	29.60
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	2728735	55.9603	55.960	80.00- 120.00	100.00
23.397	23.397 (1.125)	120	1301582			0.00- 97.91	47.70
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	2408456	57.1036	57.104	80.00- 120.00	100.00
24.033	24.033 (1.156)	120	1092292			0.00- 92.97	45.35
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	1710210	55.8512	55.851	80.00- 120.00	100.00
24.586	24.586 (1.182)	148	1078728			13.45- 113.45	63.08
24.586	24.586 (1.182)	111	715461			0.00- 93.47	41.83
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	1715381	55.0540	55.054	80.00- 120.00	100.00
24.752	24.752 (1.190)	148	1091334			13.03- 113.03	63.62
24.752	24.752 (1.190)	111	688798			0.00- 89.21	40.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.946	24.945 (1.199)	91	2336784	55.4135	55.414	80.00- 120.00	100.00
24.946	24.945 (1.199)	126	455053			0.00- 69.32	19.47
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	1514258	56.9637	56.964	80.00- 120.00	100.00
25.360	25.360 (1.219)	148	960011			13.50- 113.50	63.40
25.360	25.360 (1.219)	111	665959			0.00- 93.85	43.98
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	563899	48.2057	48.206	80.00- 120.00	100.00
28.153	28.153 (1.354)	182	536323			46.65- 146.65	95.11
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	876219	51.1875	51.188	80.00- 120.00	100.00
28.319	28.319 (1.362)	223	556471			12.39- 112.39	63.51
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	2556579	51.1916	51.192	80.00- 120.00	100.00
8.273	8.273 (0.596)	57	1644211			10.13- 110.13	64.31
19 Butane					CAS #: 106-97-8		
6.808	6.807 (0.490)	58	253823	54.0693	54.069	80.00- 120.00	100.00
6.808	6.807 (0.490)	43	2113368			840.77- 940.77	832.61
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	1396866	55.6915	55.691	80.00- 120.00	100.00
16.374	16.374 (1.179)	98	629990			0.00- 93.08	45.10
16.374	16.374 (1.179)	55	1386832			52.63- 152.63	99.28
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	1157621	42.9432	42.943	80.00- 120.00	100.00
28.678	28.678 (1.379)	127	143243			0.00- 62.34	12.37

Report Date: 22-Aug-2007 15:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t082213.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdt.i/22Aug2007.b/t14q822a.m
Misc Info: 200ppbv --> 50ppbv

Calibration Date: 22-AUG-2007
Calibration Time: 12:29
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	210206	126124	294288	216677	3.08
97 1,4-Difluorobenze	855220	513132	1197308	896057	4.78
126 Chlorobenzene-d5	776619	465971	1087267	803259	3.43

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

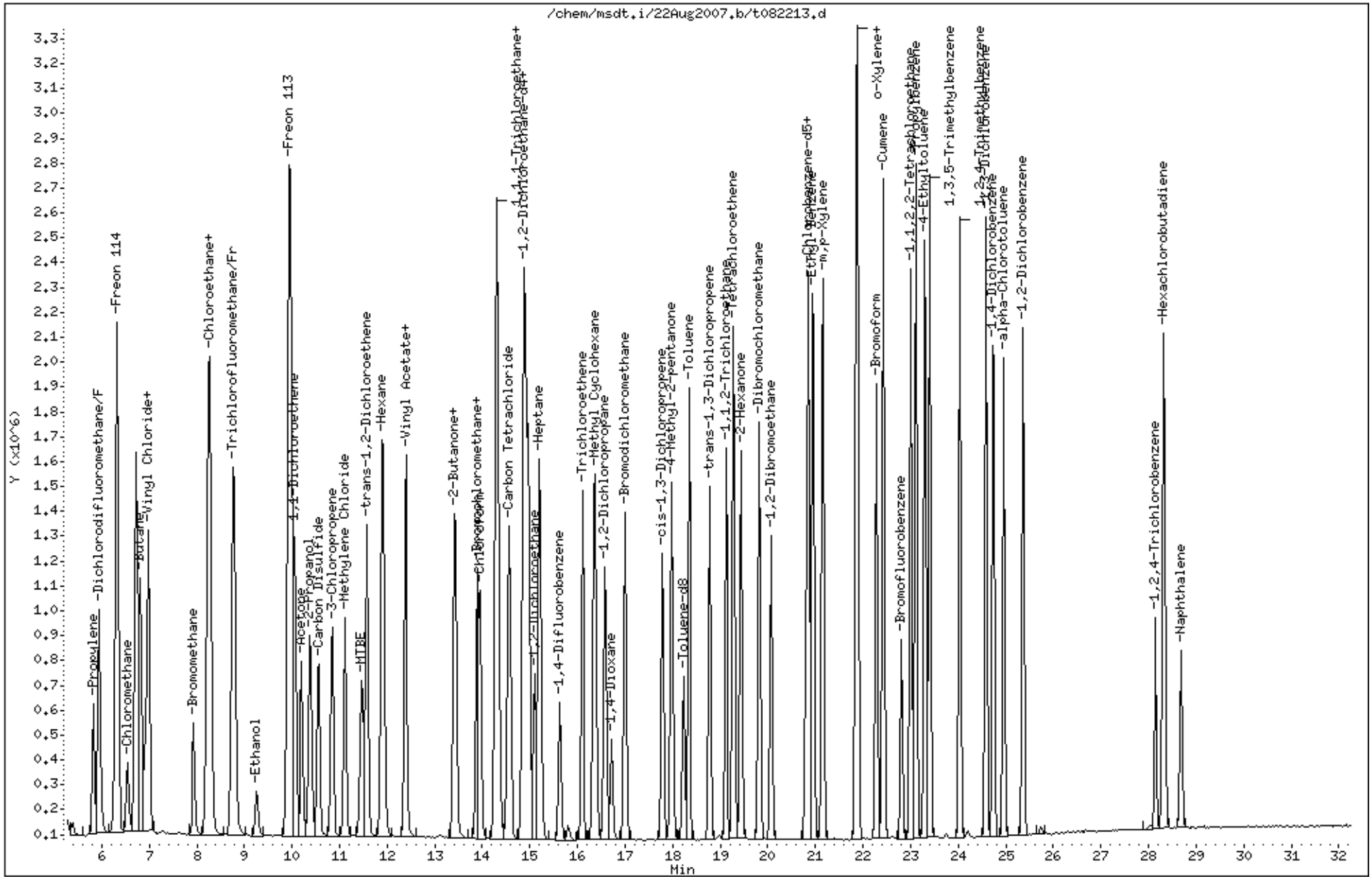
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdt.i/22Aug2007.b/t082213.d
Date : 22-AUG-2007 15:13
Client ID: LCS-1
Sample Info: 50mL #1443-164

Instrument: msdt.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



@ Air Toxics Ltd.

MSD-T

Logbook #: 1533

0169

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	24.49
75	30.0 – 60.0% of mass 95	47.26
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	(0.65)[1]
174	Greater than 50.0% of mass 95	66.40
175	5.0 – 9.0% of mass 174	(7.13)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.93)[1]
177	5.0 – 9.0% of mass 176	(6.56)[2]

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

Verify 176/174 m/z Ratio: 690856 / 720202 x 100 = 95.925%

BFB Injection Date: 8/22/07
BFB Injection Time: 0923
BFB File ID: T082204
Tekmar Purge Flow: N/A
Vacuum: 2.31 x 10⁻⁵ torr

IS/S Std.#: ~~[illegible]~~ 1487-369	Exp. Date: 11/20/07
BCM	210206
1,4-DFB	855220
CB-d5	776619

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

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(400920)}{(210206)} \times \frac{(25.0)}{(1.90684)} = 25.006$

Reported Result 25.006

File ID:	T082209
Compound:	1,2-DCA-d4
Initials:	CB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	T082204	BFB Tune Check	1476-58	50ng	2mL	1.00	CB	8/22/07	0923	CB	
2	✓	05	ICAL Level 1	1443-170	200ppbv - 0.2ppbv	0.2mL	↓	CB	↓	0946	CB	t14q822a
3	✓	06	2	↓	200ppbv - 0.5ppbv	0.5mL		CB		1027	CB	↓
4	✓	07	3		200ppbv - 2ppbv	2mL		CB		1109	CB	
5	✓	08	4		200ppbv - 25ppbv	25mL		CB		1150	CB	
6	✓	09	5		200ppbv - 50ppbv	50mL		CB		1229	CB	CCV
7	✓	10	6		200ppbv - 100ppbv	100mL		CB		1308	CB	
8	✓	11	7	↓	200ppbv	200mL		CB		1348	CB	↓
9	✓	12	System Blank	31437	Humid	200mL	↓	CB	↓	1430	CB	

Signature: [signature] Date: 8/22/07

10	✓	T082213	LCS-1 (200 ppbv)	1443-164	50 ppbv	50 mL	1.00	CB	8/22/07	1513	CB		
11	✓	14	LCSD (200 ppbv)	↓	↓	↓	1.00	CB		1552	CB/LO		
12	✓	15	Lab Blank	31437	Humid	200 mL	1.00	AB		1643	AB/LO		
13	✓	16	07082126-97A	9317	3.5"Hg-5psi	200 mL	1.52	AB		1729	AB/LO		
14	✓	17	0708225-01A	2124	5.6"Hg-15psi	7.0 mL	69.1	AB		1819	LO	RR @ 10mL	
15	✓	18	↓ -01A	↓	↓	10 mL	48.4	AB		1905	AB/LO		
16	X	19	07082062C-11AB	35156	5.0"Hg-5psi	10 mL	32.2	AB		1953	SM	RR @ 50mL	
17	X ✓	20	07082062C-11AB	35156	5.0"Hg-5psi	55mL	5.85	SM		2039	AB/SM	Double for NT	
18	✓	21	07082038-01A	33580	↓	25mL	12.9	AB		2134	AB/LO		
19	X	22	↓ -03A	13132	4.5"Hg-5psi	15 mL	21.1	AB		2238	—		
20	✓	23	↓ -03A	↓	↓	125mL	2.53	AB		2336	KR		
21	✓	24	07083968-01A	12363	20"Hg-15psi	15mL	28.8	KR	8/23/07	0023	KR		
22	✓	25	0708221-01A	9913	10.5"Hg-5psi	200mL	2.06	KR		0106	KR		
23	X	26	07083968-01AA	12363	20"Hg-15psi	15mL	28.8	KR		0144	KR	Not Needed	
24	✓	27	0708221-02A	9408	6.5"Hg-5psi	200mL	1.71	KR		0226	KR		
25	X	28	0708432-01A	bag	NA	100mL	2.00	KR		0306	KR	RR 200mL	
26	✓	29	0708258-01A	05709	6.0"Hg-5psi	200mL	1.68	KR		0345	KR		
27	✓	30	↓ -02A	20943	6.0"Hg-5psi	200mL	1.68	KR		0423	KR		
28	✓	31	0708432-01A	bag	NA	200mL	1.00	KR	↓	0519	KR		
29													
30													
31			LO 8/23/07										
32													

0170

Comments: Flow Controller SN #AA98123220

NIST Flowmeter SN # 11881Z Actual = 24.6 mL/min

Nominal = 22.1 mL/min

Laura Overmyer
Signature

8/23/07
Date

Air Toxics Ltd.

Data file : /chem/msdt.i/22Aug2007.b/t082204.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 22-AUG-2007 09:23
Operator : cb Inst ID: msdt.i
Smp Info : 2uL #1476-58;BFB tune check;BFB tune check
Misc Info : 50ng
Comment :
Method : /chem/msdt.i/22Aug2007.b/bfb.m
Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

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		
8.110	8.228	-0.118	95	1084693			100.00- 100.00	100.00
8.110	8.228	-0.118	50	265652			15.00- 40.00	24.49
8.110	8.228	-0.118	75	512606			30.00- 60.00	47.26
8.110	8.228	-0.118	96	73262			5.00- 9.00	6.75
8.110	8.228	-0.118	173	4697			0.00- 2.00	0.65
8.110	8.228	-0.118	174	720202			50.00- 100.00	66.40
8.110	8.228	-0.118	175	51381			5.00- 9.00	7.13
8.110	8.228	-0.118	176	690856			95.00- 101.00	95.93
8.110	8.228	-0.118	177	45289			5.00- 9.00	6.56

Data File: /chem/msdt.i/22Aug2007.b/t082204.d

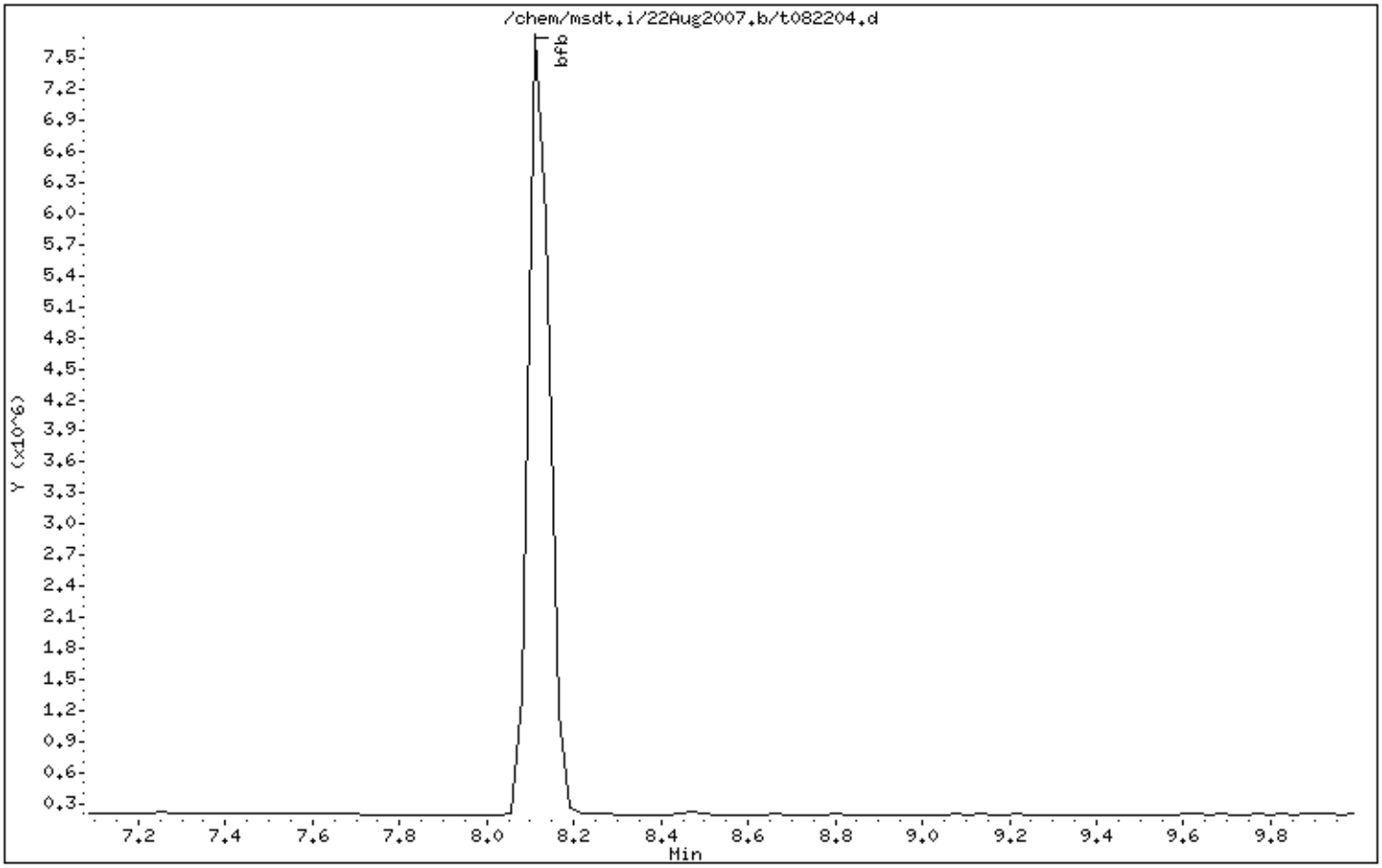
Date : 22-AUG-2007 09:23

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1476-58;BFB tune check;BFB tune check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00



Data File: /chem/msdt.i/22Aug2007.b/t082204.d

Date : 22-AUG-2007 09:23

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1476-58;BFB tune check;BFB tune check

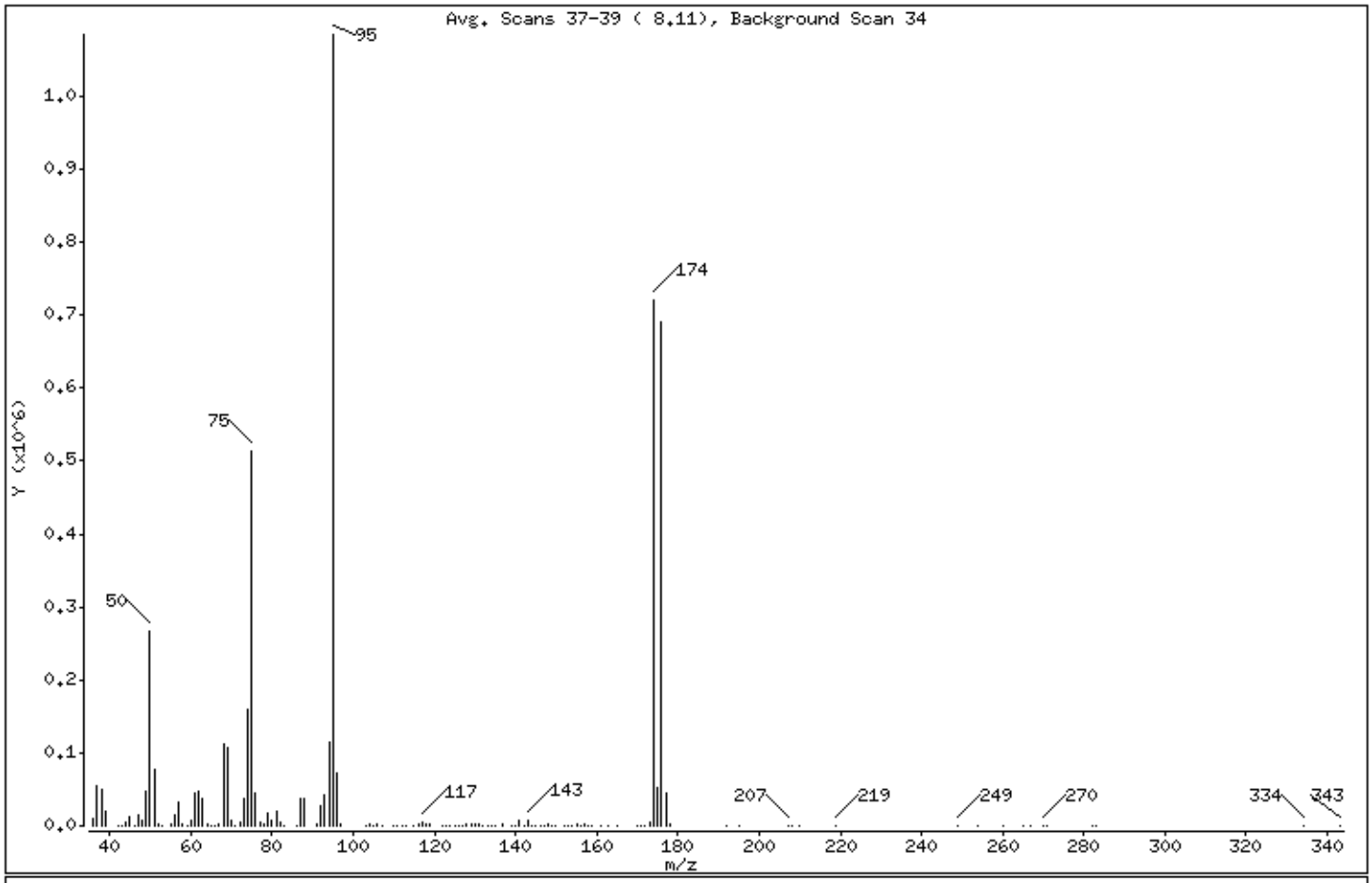
Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.49
75	30.00 - 60.00% of mass 95	47.26
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.43 (0.65)
174	50.00 - 100.00% of mass 95	66.40
175	5.00 - 9.00% of mass 174	4.74 (7.13)
176	95.00 - 101.00% of mass 174	63.69 (95.93)
177	5.00 - 9.00% of mass 176	4.18 (6.56)

Date : 22-AUG-2007 09:23

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1476-58;BFB tune check;BFB tune check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: t082204.d
Spectrum: Avg. Scans 37-39 (8.11), Background Scan 34
Location of Maximum: 95.00
Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9052	73.00	38360	119.00	3587	158.00	314
37.00	54912	74.00	160000	122.00	283	159.00	899
38.00	50592	75.00	512576	123.00	137	161.00	1173
39.00	21104	76.00	44112	124.00	489	163.00	143
42.00	51	77.00	5383	125.00	349	165.00	442
43.00	420	78.00	3183	126.00	387	170.00	277
44.00	5972	79.00	18048	127.00	257	171.00	387
45.00	11344	80.00	6315	128.00	3002	172.00	1197
46.00	529	81.00	18720	129.00	1397	173.00	4697
47.00	15739	82.00	4574	130.00	2817	174.00	720192
48.00	6599	83.00	533	131.00	1313	175.00	51376
49.00	47744	86.00	740	132.00	124	176.00	690816
50.00	265600	87.00	37696	133.00	63	177.00	45288
51.00	78504	88.00	36776	134.00	203	178.00	1380
52.00	3102	91.00	2524	135.00	1034	192.00	45
53.00	3	92.00	26544	137.00	1377	195.00	159
55.00	2501	93.00	42352	139.00	303	207.00	630
56.00	15618	94.00	114152	140.00	456	208.00	160
57.00	31952	95.00	1084416	141.00	6713	210.00	131
58.00	1397	96.00	73256	142.00	755	219.00	267
59.00	239	97.00	2307	143.00	7345	249.00	248
60.00	8622	103.00	212	144.00	482	254.00	105
61.00	45712	104.00	3365	145.00	834	260.00	107
62.00	46880	105.00	861	146.00	1241	265.00	118
63.00	37344	106.00	2889	147.00	544	267.00	300
64.00	3434	107.00	1055	148.00	1720	270.00	504
65.00	767	110.00	318	149.00	845	271.00	114
66.00	229	111.00	542	150.00	802	282.00	221
67.00	2552	112.00	379	152.00	422	283.00	39
68.00	111992	113.00	691	153.00	689	334.00	372
69.00	108040	115.00	1051	154.00	496	343.00	64
70.00	8057	116.00	2597	155.00	2007		
71.00	275	117.00	4626	156.00	601		
72.00	4709	118.00	2615	157.00	1464		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0708221
# of pages (Including Cover): 1

8/28/2007

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **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.

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

Page ____ of ____

Project Manager: Brian McCarthy
Collected by: (Print and Sign) ______
Company: GEI Email: ______
Address: 1 Orinoco Drive City: Brightwaters State: NY Zip: 11718
Phone: ______ Fax: ______

Project Info:
P.O. #: ______
Project #: 061140-8-1703
Project Name: Bay Shore OU2

Turn Around Time: ☒ Normal ☐ Rush ______ specify

Lab Use Only Pressurized by: VF
Date: 8/11/07
Pressurization Gas: (N$_2$) He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	~~DW~~ UW AMS#1	9913	08/09/07	1530	TO15 & Naphthalene	-30	-11.5	10.5"Hg	5 psi
02A	DW AMS#5	9408	08/09/07	1530	TO15 & Naphthalene	-30	-7.5	6.5"Hg	↓

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
Thomas R Taaf 8/9/07 1600	T. LaFleigh ATL 8/10/07 0845	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8617 5870 7820	NA	Good	Yes No (None)	0708221

Form 1293 rev.11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0708221

Client

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

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 08/24/07
Date Completed: 8/23/07
Date Received: 8/10/07
PO#: NR
Project#: 061140-8-1703 Bay Shore OU1

Total $: $ 554.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS#1	Modified TO-15	8/9/2007	10.5 "Hg	$225.00
02A	DW AMS#5	Modified TO-15	8/9/2007	6.5 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges 6 Liter Summa Canister (2) @ $50.00 each.	$100.00
Fuel Surcharge (2) @ $2.00 each.	$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MG **Date:** 8/10/07 **Discrepancy Type:** (I.) II. III. (circle all that apply)

Workorder(s) affected: 0708221 **Sample(s) affected:** all / 01A-02A

I. Sample Receipt Discrepancies

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

Narration not required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☒ No brass cap on canister.
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm.

Narration Required:

- ☐ COC improperly relinquished / received.
- ☐ Sample tags / can numbers do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: _____

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of initiation

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☐ Canister was at ambient pressure at time of pressurization and (check all that apply): ☐ canister failed leak check on two manifolds, ☐ canister valve was open, ☐ brass nut was loose. Sample can / cannot be analyzed (circle one).
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☐ Other (describe below)

Initials: _____ (if not the original initiator) **Date:** _____ ☐ **CSR Notified** (see section below)

Describe the Discrepancy: _____

Other Records

DILUTION FACTORS

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0708221

A	R	T	M	Q	
☑	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☑	☐	☐	☐	The final report has the correct reporting list, special units, and header info.
	☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	NA	☐	NA	☐	Corrective Action issued - #
☑	NA	☐	NA	☐	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 (24hr)
	☐	☐			Retention times have been verified
☑	☐	☐		☐	Appropriate ICAL(s) included
	☐	☐	☐	☐	At least one result per sample is verified against the target quant sheets/raw data

☑	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☑			Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	NA	☐			TICs resemble reference spectra
	☐	☐			TICs between duplicate samples are consistent
NA	☐	☐	☐		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☐		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		NA		Extra printed copies are provided per client profile
	☑		☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	NA	☐	NA	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: All QC met

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
CB 8/23/07	R: [illegible] 8/29/07	NL 8/29/07	

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