
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 #: 0805371

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	5/29/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805371

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	05/12/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	05/23/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 3	Modified TO-15	7.0 "Hg	5 psi
02A	UW AMS 5	Modified TO-15	7.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 05/23/08

Laboratory Director

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

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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0805371

Two 6 Liter Summa Canister samples were received on May 12, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference 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

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

The daily calibration verification (CCV) analyzed on 05/20/2008 did not meet laboratory/project acceptance criteria for Bromoform. Recovery for this compound was high, and no hits for this compound were detected in the associated samples. There is no impact on data quality.

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
DW AMS 3	0805371-01A	5/ 8/2008	5/12/2008	NA	13	5/21/2008	NA	Good
UW AMS 5	0805371-02A	5/ 8/2008	5/12/2008	NA	13	5/21/2008	NA	Good
Lab Blank	0805371-03A	NA	NA	NA	NA	5/20/2008	NA	Good
CCV	0805371-04A	NA	NA	NA	NA	5/20/2008	NA	Good
LCS	0805371-05A	NA	NA	NA	NA	5/20/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3

Lab ID#: 0805371-01A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0805371-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052020**	**Date of Collection: 5/8/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 5/21/08 01:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.88	Not Detected	4.3	Not Detected
Freon 114	0.88	Not Detected	6.1	Not Detected
Vinyl Chloride	0.88	Not Detected	2.2	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.88	Not Detected	4.9	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Freon 113	0.88	Not Detected	6.7	Not Detected
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Chloroform	0.88	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.5	Not Detected
Benzene	0.88	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.88	Not Detected	3.5	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
Toluene	0.88	Not Detected	3.3	Not Detected
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.88	Not Detected	6.7	Not Detected
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
Ethyl Benzene	0.88	Not Detected	3.8	Not Detected
m,p-Xylene	0.88	Not Detected	3.8	Not Detected
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.88	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0805371-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052020**	**Date of Collection: 5/8/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 5/21/08 01:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.88	Not Detected	3.6	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
Chloromethane	3.5	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected
Acetone	3.5	Not Detected	8.3	Not Detected
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
2-Propanol	3.5	Not Detected	8.6	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
Ethanol	3.5	Not Detected	6.6	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Naphthalene	3.5	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/20May2008.b/z052020.d
Lab Smp Id: 0805371-01A
Inj Date : 21-MAY-2008 01:15
Operator : cb Inst ID: msdz.i
Smp Info : 500mL #14123
Misc Info : 7.0"Hg -> 5psi
Comment :
Method : /chem/msdz.i/20May2008.b/t14l0422c.m
Meth Date : 20-May-2008 14:03 nkhan Quant Type: ISTD
Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d
Als bottle: 1
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: TO15Nq.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
* 39 Bromochloromethane					CAS #: 74-97-5		
13.605	13.605 (1.000)	130	318688	10.0000		80.00- 120.00	100.00
13.605	13.605 (1.000)	128	253079			0.00- 30.00	79.41
13.605	13.605 (1.000)	49	630538			0.00- 30.00	197.85
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.859	14.859 (1.000)	114	821459	10.0000		80.00- 120.00	100.00
14.859	14.859 (1.000)	88	176530			0.00- 30.00	21.49
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1077418	10.0000		80.00- 120.00	100.00
19.117	19.117 (1.000)	82	732613			0.00- 30.00	68.00
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	746729	10.5264	10.526	80.00- 120.00	100.00
14.365	14.365 (1.056)	67	351768			0.00- 30.00	47.11
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	933983	10.7501	10.750	80.00- 120.00	100.00
17.038	17.038 (1.147)	70	175329			0.00- 30.00	18.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.061	17.038 (1.148)	100	617350			37.49- 97.49	66.10
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.076)	174	825822	10.2433	10.243	80.00- 120.00	100.00
20.574	20.574 (1.076)	95	1180928			113.97- 173.97	143.00
20.574	20.574 (1.076)	176	787325			65.09- 125.09	95.34

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052020.d
Lab Smp Id: 0805371-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: 7.0"Hg -> 5psi

Calibration Date: 20-MAY-2008
Calibration Time: 09:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	457449	274469	640429	318688	-30.33
52 1,4-Difluorobenze	1351567	810940	1892194	821459	-39.22
68 Chlorobenzene-d5	1715015	1029009	2401021	1077418	-37.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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: 23-May-2008 08:56

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 21May2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0805371-01A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: SpectraENSR.spk Quant Type: ISTD
Sublist File: TO15Nq.sub
Method File: /chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: 7.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.526	105.26	0-130
$ 59 Toluene-d8	10.000	10.750	107.50	0-130
$ 77 Bromofluorobenzene	10.000	10.243	102.43	0-130

Data File: /chem/msdz.i/20May2008.b/z052020.d

Date : 21-MAY-2008 01:15

Client ID:

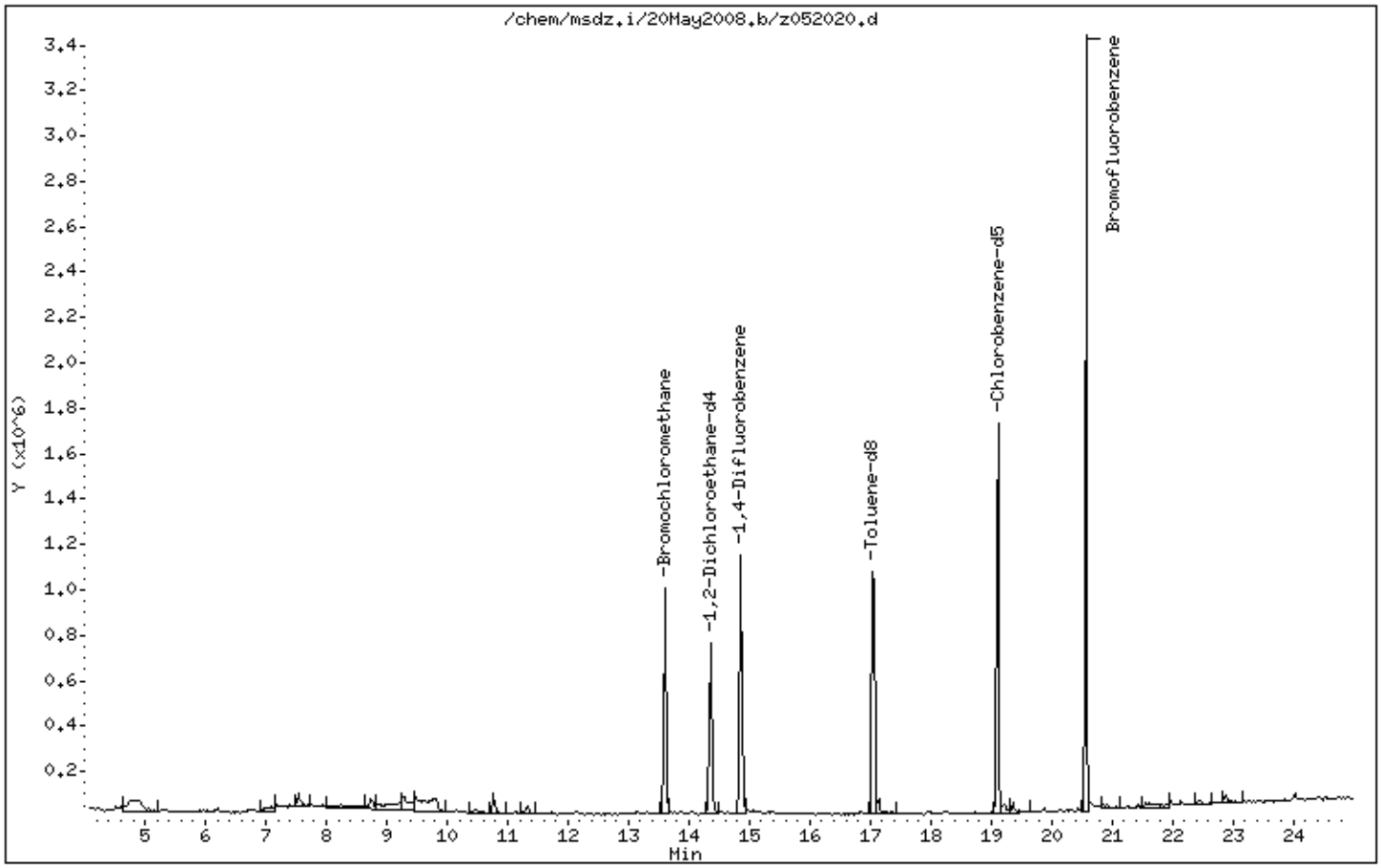
Instrument: msdz.i

Sample Info: 500mL #14123

Operator: cb

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 5

Lab ID#: 0805371-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Carbon Disulfide	0.88	1.0	2.7	3.3

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0805371-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052021**	**Date of Collection:**	**5/8/08**
Dil. Factor:	**1.75**	**Date of Analysis:**	**5/21/08 01:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.88	Not Detected	4.3	Not Detected
Freon 114	0.88	Not Detected	6.1	Not Detected
Vinyl Chloride	0.88	Not Detected	2.2	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.88	Not Detected	4.9	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Freon 113	0.88	Not Detected	6.7	Not Detected
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Chloroform	0.88	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.5	Not Detected
Benzene	0.88	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.88	Not Detected	3.5	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
Toluene	0.88	Not Detected	3.3	Not Detected
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.88	Not Detected	6.7	Not Detected
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
Ethyl Benzene	0.88	Not Detected	3.8	Not Detected
m,p-Xylene	0.88	Not Detected	3.8	Not Detected
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.88	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0805371-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052021**	**Date of Collection: 5/8/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 5/21/08 01:51 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.88	Not Detected	3.6	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
Chloromethane	3.5	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected
Acetone	3.5	Not Detected	8.3	Not Detected
Carbon Disulfide	0.88	1.0	2.7	3.3
2-Propanol	3.5	Not Detected	8.6	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
Ethanol	3.5	Not Detected	6.6	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Naphthalene	3.5	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/20May2008.b/z052021.d
Lab Smp Id: 0805371-02A
Inj Date : 21-MAY-2008 01:51
Operator : cb Inst ID: msdz.i
Smp Info : 500mL #9568
Misc Info : 7.0"Hg -> 5psi
Comment :
Method : /chem/msdz.i/20May2008.b/t14l0422c.m
Meth Date : 20-May-2008 14:03 nkhan Quant Type: ISTD
Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d
Als bottle: 1
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: TO15Nq.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
* 39 Bromochloromethane					CAS #: 74-97-5		
13.605	13.605 (1.000)	130	347394	10.0000		80.00- 120.00	100.00
13.605	13.605 (1.000)	128	271488			0.00- 30.00	78.15
13.605	13.605 (1.000)	49	637182			0.00- 30.00	183.42
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.860	14.859 (1.000)	114	865552	10.0000		80.00- 120.00	100.00
14.860	14.859 (1.000)	88	180695			0.00- 30.00	20.88
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1189779	10.0000		80.00- 120.00	100.00
19.117	19.117 (1.000)	82	781512			0.00- 30.00	65.69
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	774605	10.0171	10.017	80.00- 120.00	100.00
14.365	14.365 (1.056)	67	355697			0.00- 30.00	45.92
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.061	17.038 (1.148)	98	983356	10.7418	10.742	80.00- 120.00	100.00
17.039	17.038 (1.147)	70	186603			0.00- 30.00	18.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.061	17.038 (1.148)	100	633567			37.49- 97.49	64.43
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.575	20.574 (1.076)	174	964047	10.8285	10.828	80.00- 120.00	100.00
20.575	20.574 (1.076)	95	1288016			113.97- 173.97	133.61
20.575	20.574 (1.076)	176	918612			65.09- 125.09	95.29
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	90637	0.60380	1.057	80.00- 120.00	100.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052021.d
Lab Smp Id: 0805371-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: 7.0"Hg -> 5psi

Calibration Date: 20-MAY-2008
Calibration Time: 09:55
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	457449	274469	640429	347394	-24.06
52 1,4-Difluorobenze	1351567	810940	1892194	865552	-35.96
68 Chlorobenzene-d5	1715015	1029009	2401021	1189779	-30.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.61	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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: 23-May-2008 08:56

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 21May2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0805371-02A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: SpectraENSR.spk Quant Type: ISTD
Sublist File: TO15Nq.sub
Method File: /chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: 7.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.017	100.17	0-130
$ 59 Toluene-d8	10.000	10.742	107.42	0-130
$ 77 Bromofluorobenzene	10.000	10.828	108.29	0-130

Data File: /chem/msdz.i/20May2008.b/z052021.d

Date : 21-MAY-2008 01:51

Client ID:

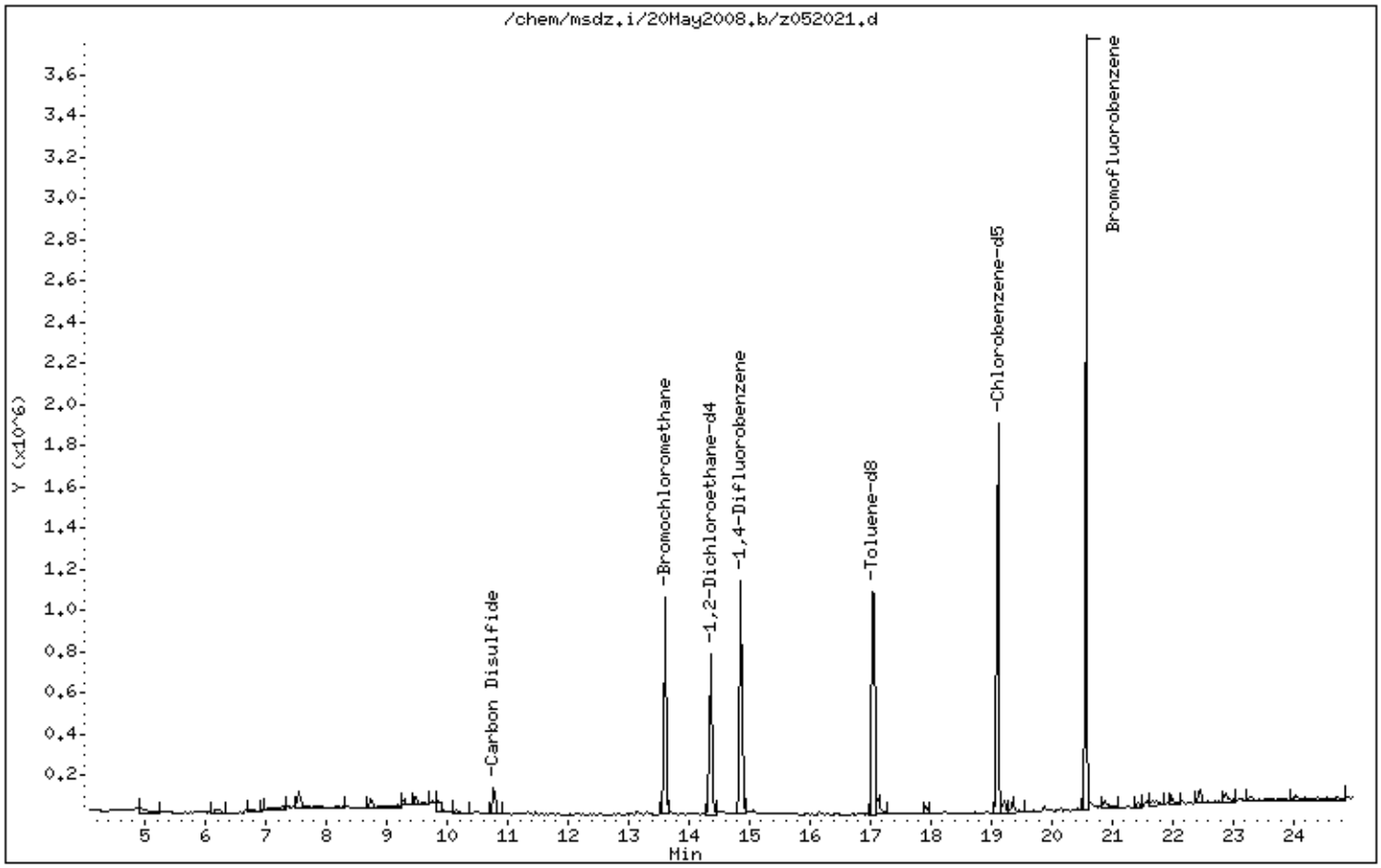
Instrument: msdz.i

Sample Info: 500mL #9568

Operator: cb

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdz.i/20May2008.b/z052021.d

Date : 21-MAY-2008 01:51

Client ID:

Instrument: msdz.i

Sample Info: 500mL #9568

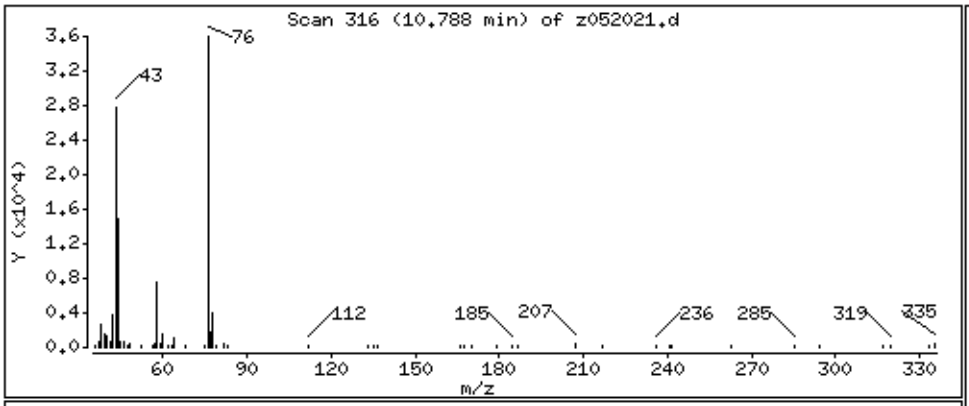
Operator: cb

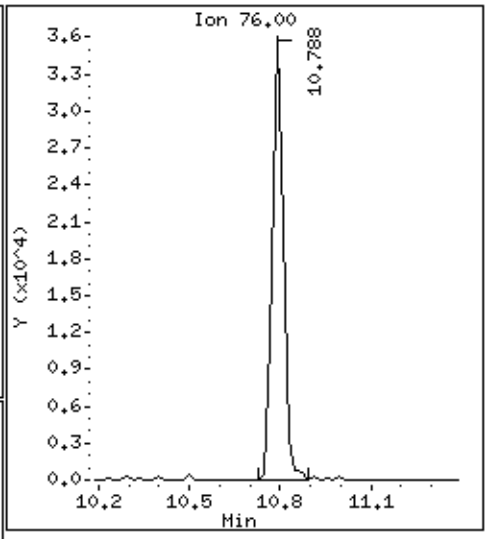
Column phase: RTx-624

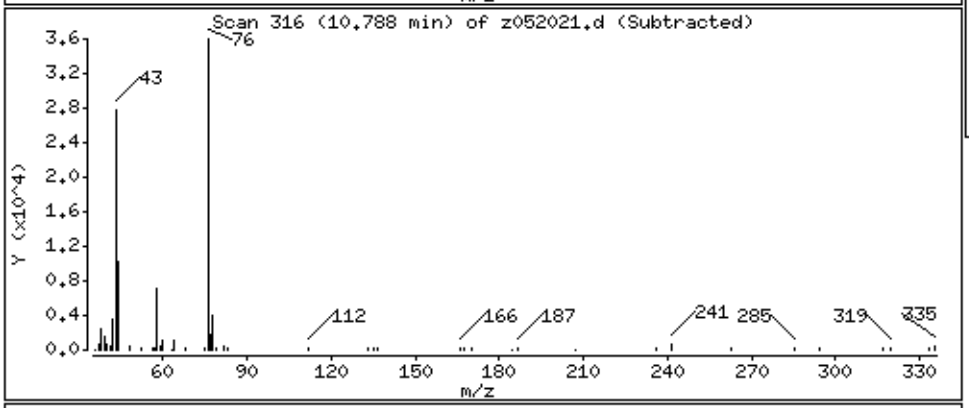
Column diameter: 0.32

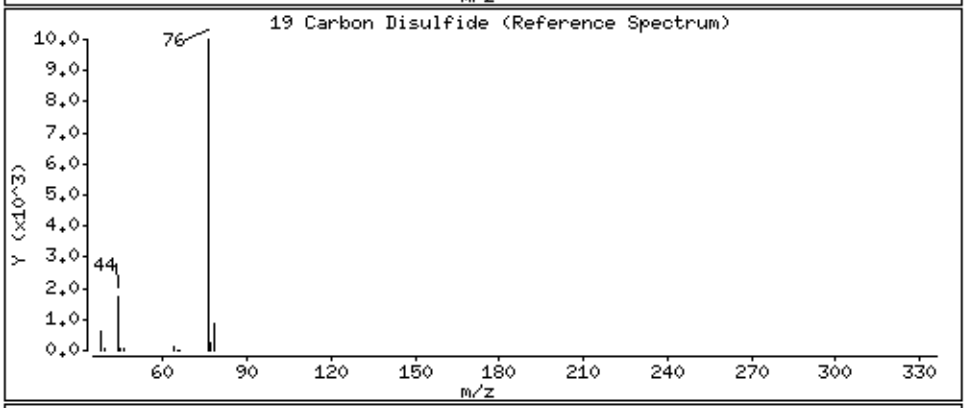
19 Carbon Disulfide

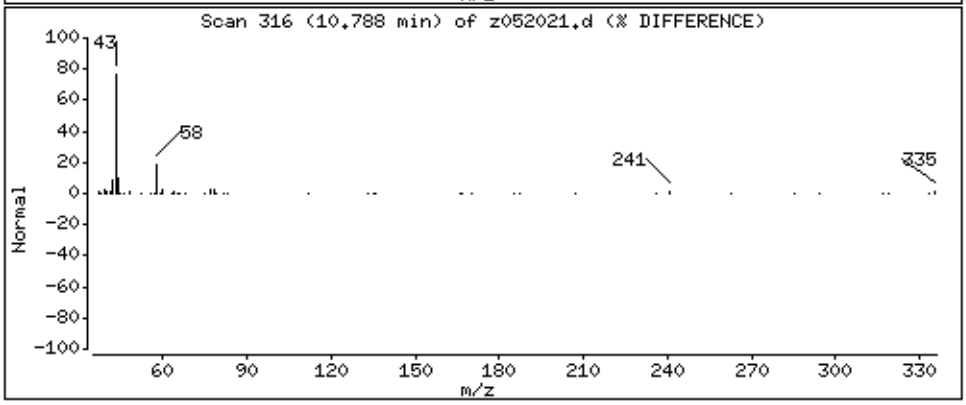
Concentration: 1.057 PPBV











QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805371-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/08 11:54 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805371-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/08 11:54 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/20May2008.b/z052004.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 20-MAY-2008 11:54
Operator : nk Inst ID: msdz.i
Smp Info : 500ml #30843
Misc Info : Humid
Comment :
Method : /var/chem/msdz.i/20May2008.b/t14l0422c.m
Meth Date : 20-May-2008 10:09 nkhan Quant Type: ISTD
Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15Nq.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS			
				ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 39 Bromochloromethane						CAS #: 74-97-5	
13.605	13.605 (1.000)	130	392081	10.0000		80.00- 120.00	100.00
13.605	13.605 (1.000)	128	315487			0.00- 30.00	80.46
13.605	13.605 (1.000)	49	779880			0.00- 30.00	198.91
* 52 1,4-Difluorobenzene						CAS #: 540-36-3	
14.859	14.859 (1.000)	114	1213915	10.0000		80.00- 120.00	100.00
14.859	14.859 (1.000)	88	253341			0.00- 30.00	20.87
* 68 Chlorobenzene-d5						CAS #: 3114-55-4	
19.117	19.117 (1.000)	117	1346674	10.0000		80.00- 120.00	100.00
19.117	19.093 (1.000)	82	917852			0.00- 30.00	68.16
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.365	14.365 (1.056)	65	880889	10.0932	10.093	80.00- 120.00	100.00
14.365	14.365 (1.056)	67	408254			0.00- 30.00	46.35
$ 59 Toluene-d8						CAS #: 2037-26-5	
17.038	17.038 (1.147)	98	1193130	9.29302	9.293	80.00- 120.00	100.00
17.038	17.038 (1.147)	70	213536			0.00- 30.00	17.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	793972			37.49- 97.49	66.55
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.076)	174	1007030	9.99350	9.994	80.00- 120.00	100.00
20.574	20.574 (1.076)	95	1451502			113.97- 173.97	144.14
20.574	20.574 (1.076)	176	957591			65.09- 125.09	95.09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052004.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: nk
Method File: /var/chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: Humid

Calibration Date: 20-MAY-2008
Calibration Time: 09:55
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	457449	274469	640429	392081	-14.29
52 1,4-Difluorobenze	1351567	810940	1892194	1213915	-10.18
68 Chlorobenzene-d5	1715015	1029009	2401021	1346674	-21.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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: 20-May-2008 12:06

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 20May2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: nk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: SpectraENSR.spk Quant Type: ISTD
Sublist File: TO15Nq.sub
Method File: /var/chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.093	100.93	0-130
$ 59 Toluene-d8	10.000	9.293	92.93	0-130
$ 77 Bromofluorobenzene	10.000	9.994	99.94	0-130

Data File: /chem/msdz.i/20May2008.b/z052004.d

Date : 20-MAY-2008 11:54

Client ID: Lab Blank

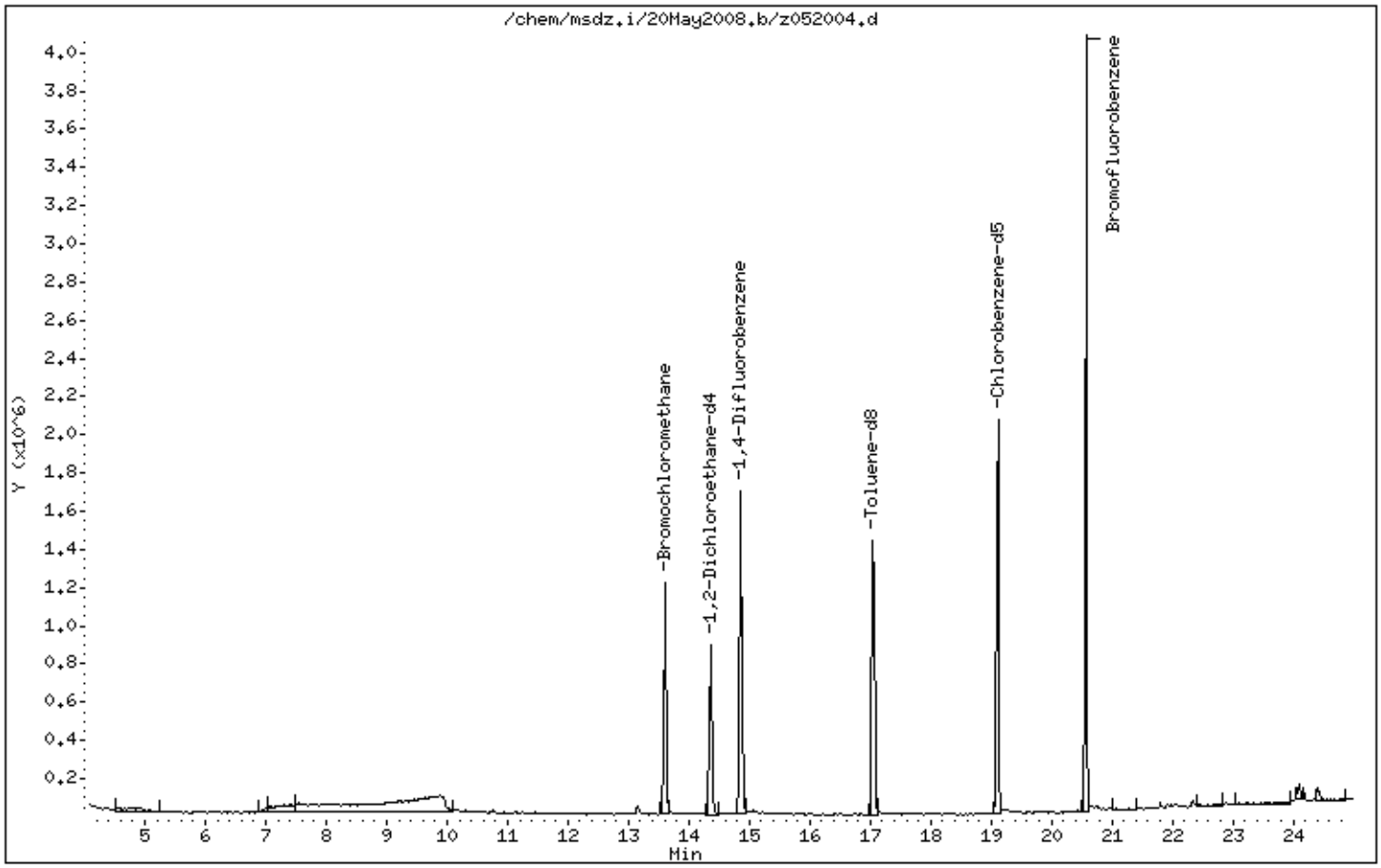
Instrument: msdz.i

Sample Info: 500ml #30843

Operator: nk

Column phase: RTx-624

Column diameter: 0.32



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0805371

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 3	105		108		102				0
02	UW AMS 5	100		107		108				0
03	Lab Blank	101		93		100				0
04	CCV	104		109		107				0
05	LCS	104		106		107				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: 0805371
Lab File ID: z052002.d
Date Analyzed: 05/20/2008
Instrument ID: msdz.i
Time Analyzed: 09:55 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1715015		19.12		1351567		14.86		457449		13.6	
	UPPER LIMIT	2401021		19.45		1892194		15.19		640429		13.93	
	LOWER LIMIT	1029009		18.79		810940		14.53		274469		13.27	
	CLIENT SAMPLE NO												
01	DW AMS 3	1077418		19.12		821459		14.86		318688		13.6	
02	UW AMS 5	1189779		19.12		865552		14.86		347394		13.61	
03	Lab Blank	1346674		19.12		1213915		14.86		392081		13.6	
04	CCV	1715015		19.12		1351567		14.86		457449		13.6	
05	LCS	1681428		19.12		1388668		14.86		453023		13.6	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-APR-2008 19:38
End Cal Date : 08-MAY-2008 10:02
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdz.i/08May2008.b/t14l0422c.m
Cal Date : 09-May-2008 12:18 ejakob
Curve Type : Average

Calibration File Names:
Level 5: /chem/msdz.i/22Apr2008.b/z042225.d
Level 6: /chem/msdz.i/29Apr2008.b/z042904.d
Level 7: /chem/msdz.i/29Apr2008.b/z042905.d
Level 8: /chem/msdz.i/22Apr2008.b/z042218.d
Level 9: /chem/msdz.i/29Apr2008.b/z042906.d
Level 10: /chem/msdz.i/29Apr2008.b/z042907.d
Level 11: /chem/msdz.i/29Apr2008.b/z042908.d
Level 12: /chem/msdz.i/08May2008.b/z050802.d

Compound	0.10000 Level 5 / 40.000 Level 11	0.50000 Level 6 / 100.000 Level 12	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	RRF	% RSD
181 Freon134a	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++ / +++++	+++++
183 2,2-Dichloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++ / +++++	+++++
184 1,1-Dichloropropene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++ / +++++	+++++
185 Pentachloroethane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++ / +++++	+++++
1 Propylene	+++++ / 1.72656	1.91287 / 1.94375	2.14539	2.26716	1.98456	1.90068	1.98300	8.882
2 Freon 152A	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++ / +++++	+++++
3 Dichlorodifluoromethane/Fr12	10.73191 / 5.99906	9.43099 / 5.99982	7.75395	8.24034	7.30728	6.82041	7.78547	21.237

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-APR-2008 19:38
End Cal Date : 08-MAY-2008 10:02
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdz.i/08May2008.b/t14l0422c.m
Cal Date : 09-May-2008 12:18 ejakob
Curve Type : Average

Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	___ RRF	% RSD
	40.000 Level 11	100.000 Level 12						
4 Freon 114	5.24031	4.71605	4.17606	4.07311	3.62898	3.41314		
	2.94876	2.81293					3.87617	21.719
5 Chloromethane	3.51853	2.56678	2.34356	2.48606	2.25373	2.06212		
	1.83988	1.90370					2.37179	22.417
179 Butane	+++++	0.69631	0.58878	0.56226	0.48865	0.46118		
	0.39296	0.38978					0.51142	21.807
6 Vinyl Chloride	3.14510	2.90887	2.54845	2.48856	2.24221	1.98073		
	1.75008	1.66435					2.34104	22.721
8 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
7 1,3-Butadiene	2.62528	1.61438	1.77127	1.82139	1.57612	1.48545		
	1.26672	1.41212					1.69659	24.558
9 Bromomethane	2.95260	2.28266	1.86059	1.77510	1.65861	1.48099		
	1.36476	1.31960					1.83686	29.796
10 Chloroethane	1.56190	1.17778	1.12863	1.04786	0.96540	0.93856		
	0.84395	0.85056					1.06433	22.027
11 Isopentane	+++++	2.07643	1.90350	1.89264	1.59796	1.45836		
	1.26293	1.27704					1.63841	19.815
12 Vinyl Bromide	+++++	1.51603	1.34026	+++++	1.23319	1.18857		
	1.12849	+++++					1.28131	11.890

Air Toxics Ltd.

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Method file : /chem/msdz.i/08May2008.b/t14l0422c.m
Cal Date : 09-May-2008 12:18 ejakob
Curve Type : Average

Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	___ RRF	% RSD	
	40.000 Level 11	100.000 Level 12							
13 Trichlorofluoromethane/Fr11	7.64235	5.57762	5.30141	4.91890	4.42664	4.09181			
	3.50181	3.54657					4.87589	27.734	
14 Ethanol	+++++	0.86750	0.74533	0.62772	0.57134	0.62232			
	0.52471	0.53349					0.64177	19.362	
16 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
15 1,1-Dichloroethene	1.70561	1.25243	1.11793	1.02726	0.95265	0.86982			
	0.79927	0.70250					1.05343	30.049	<-
17 Freon 113	4.05615	3.22025	2.96839	2.77314	2.44626	2.06478			
	1.81856	1.63875					2.62328	30.602	<-
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
20 Acetone	+++++	1.35675	1.09756	0.93997	0.85244	0.81514			
	0.73533	0.66617					0.92334	25.655	
19 Carbon Disulfide	5.42581	4.95705	4.66747	4.54242	4.14756	3.95065			
	3.58816	3.28927					4.32105	16.511	
21 2-Propanol	+++++	3.83484	3.61380	3.26518	2.92700	3.13516			
	2.90844	2.44313					3.16108	14.751	
22 3-Chloroprene	+++++	0.80606	0.88160	0.82817	0.79243	0.75273			
	0.65861	0.61067					0.76147	12.599	

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Curve Type : Average

Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	___ RRF	% RSD	
	40.000 Level 11	100.000 Level 12							
169 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
23 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
24 Acetonitrile	+++++	1.31535	1.24548	+++++	0.59280	0.61333			
	0.90620	+++++					0.93463	36.380	
25 Methylene Chloride	2.56920	1.54422	1.53066	1.39246	1.25876	1.20785			
	1.08380	0.98034					1.44591	34.293	<-
26 tert-butyl alcohol	+++++	4.88092	4.30011	4.08358	3.91046	3.66246			
	3.52988	2.48835					3.83654	19.372	
27 MTBE	4.95775	5.82910	5.47794	5.21555	4.69295	3.82348			
	3.52091	2.04731					4.44562	28.056	
28 trans-1,2-Dichloroethene	1.57916	1.38209	1.18242	1.16440	1.06762	1.01480			
	0.91364	0.84850					1.14408	21.176	
29 Acrylonitrile	+++++	1.01608	1.12775	+++++	1.00324	1.06714			
	1.08664	+++++					1.06017	4.833	
30 Hexane	3.17988	3.39813	3.00155	2.89662	2.65613	2.53131			
	2.26344	2.20720					2.76678	15.428	
31 1,1-Dichloroethane	3.88709	3.61928	3.55240	3.38623	3.07986	3.00367			
	2.70609	2.52310					3.21972	14.656	

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Curve Type : Average

Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	___ RRF	% RSD
	40.000 Level 11	100.000 Level 12						
32 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
33 Vinyl Acetate	+++++	3.21543	3.72583	3.63707	3.26032	3.51763		
	3.06408	2.64922					3.29565	11.286
34 Chlorprene	+++++	1.88578	1.81833	+++++	2.03725	2.03150		
	2.01499	+++++					1.95757	5.086
171 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
35 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
36 cis-1,2-Dichloroethene	1.49018	1.30848	1.18078	1.12108	1.07212	1.01078		
	0.92730	0.83288					1.11795	18.824
37 2-Butanone	0.94205	0.99513	0.91875	0.94365	0.87405	0.85175		
	0.77577	0.69230					0.87418	11.383
175 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
38 Tetrahydrofuran	+++++	2.65388	2.27900	2.18489	1.98776	1.95799		
	1.76741	1.87176					2.10038	14.303
40 Chloroform	5.26539	4.37806	4.16181	3.92809	3.75173	3.57484		
	3.21403	3.00365					3.90970	18.248

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	40.000 Level 11	100.000 Level 12						
42 Cyclohexane	3.26454	3.09553	2.58428	2.56124	2.41957	2.27597		
	2.02549	1.83084					2.50718	19.535
41 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
43 1,1,1-Trichloroethane	5.16455	5.27375	4.88861	4.66284	4.42736	4.17027		
	3.72465	3.46446					4.47206	14.637
44 Carbon Tetrachloride	3.96609	3.81059	3.53496	3.14287	3.07866	2.94690		
	2.68782	3.40208					3.32125	13.171
45 2,2,4-Trimethylpentane	3.86660	3.52659	3.32751	3.16149	2.96497	2.86025		
	2.51172	2.45847					3.08470	15.771
46 Benzene	2.08300	1.57085	1.40946	1.33394	1.23479	1.18897		
	1.07121	1.08448					1.37209	24.225
48 tert-amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
49 1,2-Dichloroethane	1.10967	1.01216	0.94587	0.92226	0.85777	0.81402		
	0.72292	0.79320					0.89724	14.036
50 Heptane	0.65609	0.59286	0.54190	0.52657	0.48610	0.46844		
	0.40741	0.43921					0.51482	15.941
51 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

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	40.000 Level 11	100.000 Level 12						
53 Trichloroethene	0.81019	0.71219	0.61143	0.57663	0.56879	0.52037		
	0.47478	0.48401					0.59480	19.449
167 Methylcyclohexane	+++++	4.05769	3.63697	3.55664	3.41567	3.24371		
	2.89061	2.57936					3.34009	14.696
54 1,2-Dichloropropane	0.69281	0.66762	0.61032	0.58988	0.54706	0.51734		
	0.46659	0.47578					0.57093	14.729
55 1,4-Dioxane	0.60434	0.43289	0.41646	0.39609	0.37226	0.35540		
	0.33140	0.31418					0.40288	22.572
56 Bromodichloromethane	1.30892	1.23121	1.12616	1.11344	1.07123	1.03974		
	0.96321	1.00791					1.10773	10.400
57 cis-1,3-Dichloropropene	0.82562	0.86135	0.81211	0.82963	0.80563	0.78347		
	0.73040	0.73528					0.79794	5.752
58 4-Methyl-2-pentanone	1.19964	1.28502	1.30521	1.24802	1.19899	1.18675		
	1.08397	1.25183					1.21993	5.692
65 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
60 Toluene	2.14264	1.89277	1.65487	1.64099	1.51896	1.45807		
	1.35334	1.36023					1.62774	16.805
61 trans-1,3-Dichloropropene	0.85677	0.86521	0.82591	0.77348	0.74004	0.71761		
	0.66631	0.69896					0.76804	9.736

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	40.000 Level 11	100.000 Level 12						
62 1,1,2-Trichloroethane	0.59993	0.58717	0.56217	0.52264	0.49724	0.46503		
	0.42794	0.41409					0.50953	13.886
63 Tetrachloroethene	0.78717	0.76692	0.76145	0.69492	0.66784	0.61212		
	0.55326	0.54556					0.67365	14.246
64 2-Hexanone	+++++	0.69637	0.66604	0.67822	0.64088	0.63522		
	0.55916	0.56693					0.63469	8.391
66 Dibromochloromethane	0.86906	0.87989	0.89780	0.84326	0.83788	0.78623		
	0.71861	0.76316					0.82449	7.588
67 1,2-Dibromoethane	1.06103	0.96542	0.95848	0.91908	0.86486	0.80591		
	0.71896	0.70211					0.87448	14.388
69 Chlorobenzene	1.93334	1.64281	1.57418	1.46829	1.35788	1.25311		
	1.11246	1.03785					1.42249	20.779
70 Ethyl Benzene	1.03092	0.91316	0.91460	0.84760	0.79441	0.73513		
	0.62753	0.58355					0.80586	18.883
180 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
174 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
71 m,p-Xylene	1.24812	1.19349	1.14571	1.10078	1.01372	0.93252		
	0.78872	0.73732					1.02005	18.361

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Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	___ RRF	% RSD
	40.000 Level 11	100.000 Level 12						
72 o-Xylene	1.23960	1.18502	1.18673	1.08892	1.04336	0.93841		
	0.77333	0.70017					1.01944	19.560
73 Styrene	1.57615	1.81360	1.83463	1.75940	1.65110	1.49084		
	1.25302	1.14514					1.56548	16.356
75 Bromoform	0.76642	0.84374	0.97818	0.88515	0.90298	0.86882		
	0.74454	0.83615					0.85325	8.757
177 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
76 Cumene	3.34890	3.54366	3.38063	3.14307	2.98537	2.73033		
	2.16674	1.61542					2.86427	23.307
74 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
79 1,1,2,2-Tetrachloroethane	2.05609	2.06028	1.95121	1.85331	1.74714	1.57546		
	1.32961	1.18285					1.71949	19.195
80 Propylbenzene	4.39791	4.36491	4.45984	4.17146	3.94838	3.66427		
	2.72638	1.94109					3.70928	24.609
176 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
82 4-Ethyltoluene	4.10702	4.25616	4.25173	3.94976	3.90175	3.51602		
	2.80455	2.16055					3.61844	20.982

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	40.000 Level 11	100.000 Level 12						
78 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
172 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
83 1,3,5-Trimethylbenzene	3.39801	3.31958	3.29379	2.98286	2.89483	2.63226		
	2.03608	1.45217					2.75120	25.044
182 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
81 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
84 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
85 1,2,4-Trimethylbenzene	3.05923	3.44217	3.43525	3.11272	2.94037	2.74855		
	2.05267	1.44859					2.77995	25.014
86 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
87 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
88 1,3-Dichlorobenzene	2.03683	2.23655	2.24382	2.02526	1.95455	1.80709		
	1.53599	1.30669					1.89335	17.422

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	40.000 Level 11	100.000 Level 12						
89 1,4-Dichlorobenzene	2.03034	2.30310	2.26844	2.03458	1.99463	1.85707		
	1.58003	1.30874					1.92211	17.502
173 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
90 alpha-chlorotoluene	1.65250	2.36306	2.71272	2.48875	2.52656	2.56356		
	2.24375	1.93642					2.31092	15.381
91 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
92 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
93 1,2-Dichlorobenzene	1.91072	2.12661	2.12168	1.88229	1.80614	1.72395		
	1.51174	1.33048					1.80170	15.395
94 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
168 1,2-dibromo-3-chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
95 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
97 1,2,4-Trichlorobenzene	+++++	1.43589	1.40801	1.05516	1.17710	1.21974		
	1.07711	0.98344					1.19378	14.611

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	40.000 Level 11	100.000 Level 12						
98 Hexachlorobutadiene	+++++	1.26641	1.25634	1.00221	1.01283	0.99452		
	0.88661	0.76004					1.02557	17.924
96 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
99 Naphthalene	+++++	2.33466	2.48904	1.88296	2.13392	2.27463		
	1.97161	1.65157					2.10548	13.745
170 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 47 1,2-Dichloroethane-d4	2.06474	2.11118	2.09765	2.19212	2.12249	2.22416		
	2.29858	2.69674					2.22596	9.213
$ 59 Toluene-d8	1.04112	1.06852	1.00560	1.04221	1.03603	1.05124		
	1.07405	1.14244					1.05765	3.800
$ 77 Bromofluorobenzene	0.73188	0.77379	0.77344	0.75172	0.78315	0.75606		
	0.69829	0.71789					0.74828	3.997

Calibration History

Method : /chem/msdz.i/08May2008.b/t14l0422c.m
Start Cal Date: 22-APR-2008 19:38
End Cal Date : 08-MAY-2008 10:02

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 0.10000		
23-APR-2008 11:45	Level#1	/chem/msdz.i/22Apr2008.b/z042225.d
Cal Level: 6 , Cal Amount: 0.50000		
29-APR-2008 11:21	sp4b	/chem/msdz.i/29Apr2008.b/z042904.d
22-APR-2008 19:38	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042216.d
Cal Level: 7 , Cal Amount: 2.00000		
29-APR-2008 12:17	sp4b	/chem/msdz.i/29Apr2008.b/z042905.d
22-APR-2008 20:39	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042217.d
Cal Level: 8 , Cal Amount: 5.00000		
22-APR-2008 21:12	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042218.d
Cal Level: 9 , Cal Amount: 10.00000		
29-APR-2008 13:01	sp4b	/chem/msdz.i/29Apr2008.b/z042906.d
22-APR-2008 21:50	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042219.d
Cal Level: 10, Cal Amount: 20.00000		
29-APR-2008 14:26	sp4b	/chem/msdz.i/29Apr2008.b/z042907.d
22-APR-2008 22:30	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042220.d
Cal Level: 11, Cal Amount: 40.00000		
29-APR-2008 15:50	sp4b	/chem/msdz.i/29Apr2008.b/z042908.d
22-APR-2008 23:25	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042221.d

Cal Level: 12, Cal Amount: 100.00000		
08-MAY-2008 10:02	HILOcrvENSR	/chem/msdz.i/08May2008.b/z050802.d

Initial Calibration Narrative

An initial calibration curve was analyzed on 4/22/08 on MSD-Z. The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

As noted on the accompanying analytical run log, ICAL level 5 (0.1ppbv) was re-analyzed due to:

A. anomalous unacceptable linearity for chloroethane

An additional calibration level, Level 12 (100ppbv), was added to the initial calibration curve on 5/8/08.

@ Air Toxics Ltd.

MSD-Z

Logbook #: 1653

0048

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.42
75	30.0 – 60.0% of mass 95	54.59
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	8.10
173	Less than 2.0% of mass 174	(0.00)[1]
174	50.0 – 100% of mass 95	75.47
175	5.0 – 9.0% of mass 174	(8.91)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.93)[1]
177	5.0 – 9.0% of mass 176	(8.05)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 4/22/08
BFB Injection Time: 1429
BFB File ID: Z042209
Tekmar Purge Flow: 19.2 mL/min
Vacuum: 7.50e-6

IS/S Std.#: 1541-108	Exp. Date: 7/8/08	
BCM	LL: 407140	SIM: 425406
1,4-DFB	1616499	1706173
CB-d5	203867	2108214

Verified CCV IS vs ICAL mid-point (- 40%D) GJC 4/23/08 Initials

Verify 176/174 m/z Ratio: 1340226/1382722 x 100 = 96.93

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\quad)}{(\quad)} =$

File ID:	
Compound:	
Initials:	

Reported Result GJC 4/25/08

Method: TI4L0422a
TI45042 2a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	Z042209	BFB Tune Check	14627	50psig	2mL	1.00	GJC	4/22/08	1429	GJC	
2	✓	10	System Blank	12020	Humid	500mL				1505	GJC	
3	✓	11	ICAL Level 1	1541-110	0.003ppbv	30mL				1610	RD	
4	X	12	2		0.01ppbv	100mL		ACT		1715	RD	Bad std.
5	X	13	3		0.02ppbv	200mL				1746	RD	
6	X	14	4		0.05ppbv	500mL				1821	RD	
7	X	15	5	1541-111	0.10ppbv	25mL				1907	RD	RE due to chloroethene

Signature

4/23/08
Date

@ Air Toxics Ltd.

MSD-Z

Logbook #: 1653

0400

8	✓	Z-042216	ICAL Level 6	1541-111	0.5 ppbv	125 mL	1.00	ACT	4/22/08	1938	BS	
9	✓	17	7	↓	2.0 ppbv	500 mL				2039	BS	
10	✓	18	8	1541-91	5.0 ppbv	50 mL				2112	BS	
11	✓	19	9		10 ppbv	100 mL				2150	BS	
12	✓	20	10		20 ppbv	200 mL				2230	BS	
13	✓	21	11	✓	40 ppbv	400 mL		↓	↓	2325	BS	
14	X	22	System Blank	12020	Humid	zero		ACT	4/23/08	0752	SJK	
15	X	23	↓	↓	↓	↓		↓		0927	SJK	
16	✓	24	↓	dry	—	↓		SJK		1022	SJK	
17	✓	25	ICAL Level 5	1541-111	0.10 ppbv	25 mL	↓	↓	↓	1145	BS	
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31									SJK 4/24/08			

Comments: Flow Controller SN: AA0048316 3

NIST Flow Meter: 200-7744; exp 8/27/08

Nominal	Actual
21.8 mL/min	25.0 mL/min
44.5 mL/min	50.0 mL/min

Signature

4/24/08
Date

@ Air Toxics Ltd.

MSD-Z

Logbook #: 1653

0050

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.15
75	30.0 – 60.0% of mass 95	55.34
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	8.30
173	Less than 2.0% of mass 174	(0.58)[1]
174	50.0 – 100% of mass 95	74.74
175	5.0 – 9.0% of mass 174	(8.89)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.38)[1]
177	5.0 – 9.0% of mass 176	(8.06)[2]

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

BFB Injection Date: 4/24/08
BFB Injection Time: 1312
BFB File ID: Z042401
Tekmar Purge Flow: ~~~
Vacuum: ~~~ 4/24/08

IS/S Std.#: 1541-108		Exp. Date: 7/8/08
BCM	395733	
1,4-DFB	1636065	
CB-d5	2105358	

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

Verify 176/174 m/z Ratio: 1110638/1152341 x 100 = 96.38

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

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1691984\ )}{(\ 1636065\ )} \times \frac{(\ 10.0\ )}{(\ 1.04554\ )} = 9.891$

Reported Result 9.891

File ID:	Z042405
Compound:	Tol-d8
Initials:	SJM

Method: T14L0422a
T14S0422a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	Z042401	BFB Tune Check	1476-277	50 psig	2mL	1.00	SJM	4/24/08	1312	SJM	
2	✓	02	ICAL Level 2	1541-129	0.01ppbv	100mL				1452	BS	
3	✓	03	3		0.02ppbv	200mL				1545	BS	
4	✓	04	4		0.05ppbv	500mL				1700	BS	
5	✓	05	CCV-1 (50 ppbv)	1541-91	10 psig	100mL		ACT		1730	ACT BS	
6	✓	06	LCS-1 (50ppbv)	1541-52	10 psig	100mL				1807	BS	ICAL LCS
7	✓	07	Lab Blank	12020	Humid	500mL				1840	BS	

Signature

4/24/08
Date

@ Air Toxics Ltd.

MSD-Z

Logbook #: 1653

0051

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	28.71
75	30.0 – 60.0% of mass 95	56.21
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	8.04
173	Less than 2.0% of mass 174	(1.05)[1]
174	50.0 – 100% of mass 95	78.27
175	5.0 – 9.0% of mass 174	(8.88)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.85)[1]
177	5.0 – 9.0% of mass 176	(7.93)[2]

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

BFB Injection Date: 4/29/08

BFB Injection Time: ~~2041~~ 0907

BFB File ID: Z042901

Tekmar Purge Flow: 2

Vacuum: SM 4/29/08

IS/S Std.#: 1541-108	Exp. Date: 7/8/08
BCM LL: 345737	
1,4-DFB 1241907	
CB-d5 1575992	

Verified CCV IS vs ICAL mid-point (- 40%D) SM 4/29/08 *initials*

Verify 176/174 m/z Ratio: 1136797/1173781 x 100 = 96.85

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

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(1327164)}{(1241907)} \times \frac{(10.0)}{(1.04554)} = 10.221$

File ID:	Z042902
Compound:	Tol-d8
Initials:	SM

Reported Result 10.221

SM 4/29/08

Method: TI4L0422b

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
*1	✓	Z042901	BFB Tune Check	1476-277	50psig	2mL	1.00	SM	4/29/08	0907	SM	
*2	✓	02	CCV-1 (50ppbv)	1541-91	10ppbv	100mL				0933	SM	0 out
*3	✓	03	LCS-1	1541-52						1014	SM	0 out
4	✓	04	ICAL Level 6	1541-116	0.5ppbv	125mL				1121	SM	TI4L0422b
5	✓	05	7	↓	2.0ppbv	500mL				1217	SM	
*6	✓	06	9	1541-115	10ppbv	100mL				1301	SM	sp4bCCV
7	✓	07	10	↓	20ppbv	200mL	↓	↓	↓	1426	SM	

Signature

4/29/08
Date

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MSD-Z

Logbook #: 1653

0052

8	✓	Z042908	ICAL Level II	1541-115	40ppbv	400mL	1.00	SJA	4/29/08	1550	SJA		
9	X	↓ 09	Lab Blank	12020	Humid	500mL	1.00	ACT	↓	1656	ACT/		Acetonitrile >RL
10	✓	10	~~08045944~~ -01A	12330	5.0"Hg→5psi		1.61			1801			
11		11	-02A	10973							4/29/08	ACT	
12	✓	Z042910	Lab Blank	12020	Humid	500mL	1.00	ACT	4/29/08	1801	ACT/	BD	
13	✓	11	08045944 -01A	12330	5.0"Hg→5psi		1.61			1846	ACT/	BD	
14	✓	12	-02A	10973						1916	ACT/	BD	
15	✓	13	-03A	33896						1947	ACT/	BD	
16	✓	14	-02AA	10973						2018	ACT/	BD	
17	✓	15	08044834 -01A	31145	1.0"Hg→5psi		1.39			2052	ACT/	BD	
18	✓	16	-02A	5657	0.0"Hg→5psi		1.34			2122	ACT/	BD	
19	✓	17	-03A	11307	0.5"Hg→5psi		1.36			2154	ACT/	BD	
20	✓	18	-01AA	31145	1.0"Hg→5psi		1.39			2225	ACT/	BD	
21	✓	19	-04A	12012	0.0"Hg→5psi		1.34			2256	ACT/	BD	
22	✓	20	-05A	5714	↓		↓			2329	ACT/	BD	
23	✓	21	-06A	4214	29.0"Hg→5psi		1.00		4/30/08	0003	DM/	BD	
24	✓	22	07A	14869	0.5"Hg→5psi		1.36	DM		0052	DM/	BD	
25	✓	23	08A	14121	0.0"Hg→5psi		1.34			0149	DM/	BD	
26	✓	24	09A	5777	↓		↓			0246	DM/	BD	
27	✓	25	10A	24489	↓		↓			0352	DM/	BD	
28	P	26	manifold #8	1593	—		1.00	BD		0751	SJA		
29													
30													
31													

Comments:

SJA 4/30/08

Signature

4/30/08
Date

@ Air Toxics Ltd.

MSD-Z

Logbook #: 1653

0053

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.49
75	30.0 – 60.0% of mass 95	58.10
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	8.38
173	Less than 2.0% of mass 174	(1.06)[1]
174	50.0 – 100% of mass 95	75.91
175	5.0 – 9.0% of mass 174	(8.80)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.72)[1]
177	5.0 – 9.0% of mass 176	(7.99)[2]

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

BFB Injection Date: 5/8/08
BFB Injection Time: 0900
BFB File ID: Z050801
Tekmar Purge Flow: 7
Vacuum: [illegible] 5/8/08

IS/S Std.#: 1541-156	Exp. Date: 8/6/08
BCM	303019
1,4-DFB	1056800
CB-d5	1305891

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

Verify 176/174 m/z Ratio: 917750 / 948906 x 100 = 96.72

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

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = $\frac{(1134839)}{(1056800)} \times \frac{(10.0)}{(1.05765)}$ = 10.153

File ID:	Z050804
Compound:	Tol-d8
Initials:	

Reported Result 10.153

Method: TI4L0422C

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	Z050801	BFB Tune Check	1476-277	50ng	2uL	1.00		5/8/08	0900		
2	✓	02	ICAL Level 12 (20ppbv)	1612-6	100ppbv	250mL				1002		
3	✓	03	System blank	12020	Humid	500mL				1231		
4	✓	04	CCV-1 (50ppbv)	1541-95	100ppbv	100mL				1318		2 out
5	✓	05	LCS-1	1541-52	"	"				1417		0 out
6	✓	06	Lab blank	30843	Humid	500mL				1507		
7	✓	07	080511BA-01A	33963	6.5"Hg-5psi	500mL	1.71		✓	1601	ACT	

Signature

5/8/08
Date

Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15 Low Level
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
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
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/TO15

Data file : /chem/msdz.i/08May2008.b/z050805.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 08-MAY-2008 14:17
Operator : sjr Inst ID: msdz.i
Smp Info : 100mL #1541-52;LCS-1;LCS-1
Misc Info : 50ppbv -> 10ppbv
Comment :
Method : /chem/msdz.i/08May2008.b/t14l0422c.m
Meth Date : 09-May-2008 12:23 ejakob Quant Type: ISTD
Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 39 Bromochloromethane					CAS #: 74-97-5		
13.605	13.605 (1.000)	130	293082	10.0000		80.00- 120.00	100.00
13.605	13.605 (1.000)	128	227933			0.00- 30.00	77.77
13.605	13.605 (1.000)	49	518406			0.00- 30.00	176.88
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.859	14.860 (1.000)	114	1002617	10.0000		80.00- 120.00	100.00
14.859	14.860 (1.000)	88	209618			0.00- 30.00	20.91
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	1207912	10.0000		80.00- 120.00	100.00
19.093	19.093 (1.000)	82	815212			0.00- 30.00	67.49
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	634991	9.73334	9.733	80.00- 120.00	100.00
14.365	14.365 (1.056)	67	348150			0.00- 30.00	54.83
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.038	17.039 (1.147)	98	1069562	10.0862	10.086	80.00- 120.00	100.00
17.038	17.039 (1.147)	70	177069			0.00- 30.00	16.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.039 (1.147)	100	731600			37.60- 97.60	68.40
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.575 (1.078)	174	897772	9.93273	9.933	80.00- 120.00	100.00
20.574	20.575 (1.078)	95	1215607			101.48- 161.48	135.40
20.574	20.575 (1.078)	176	883519			66.96- 126.96	98.41
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	646849	11.1299	11.130	80.00- 120.00	100.00
4.521	4.545 (0.332)	42	441318			0.00- 30.00	68.23
4.521	4.521 (0.332)	39	506109			0.00- 30.00	78.24
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	2071231	9.07725	9.077	80.00- 120.00	100.00
4.907	4.907 (0.361)	87	731871			4.71- 64.71	35.34
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.439)	135	1044758	9.19653	9.196	80.00- 120.00	100.00
5.991	5.967 (0.440)	137	367413			0.00- 30.00	35.17
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	663547	9.54565	9.546	80.00- 120.00	100.00
6.184	6.184 (0.455)	52	223505			0.00- 30.00	33.68
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.841 (0.502)	62	585379	8.53176	8.532	80.00- 120.00	100.00
6.841	6.841 (0.503)	64	201997			4.77- 64.77	34.51
7 1,3-Butadiene					CAS #: 106-99-0		
7.014	7.014 (0.516)	54	476280	9.57847	9.578	80.00- 120.00	100.00
7.014	7.032 (0.516)	39	485159			0.00- 30.00	101.86
9 Bromomethane					CAS #: 74-83-9		
8.198	8.198 (0.603)	94	465435	8.64555	8.646	80.00- 120.00	100.00
8.198	8.198 (0.603)	96	440088			64.13- 124.13	94.55
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	281288	9.01749	9.017	80.00- 120.00	100.00
8.612	8.612 (0.633)	49	97976			0.00- 30.00	34.83
8.612	8.612 (0.633)	66	96009			0.00- 30.00	34.13
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	1325742	9.27718	9.277	80.00- 120.00	100.00
9.296	9.296 (0.683)	103	871864			36.78- 96.78	65.76

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.146	10.146 (0.746)	45	156513	8.32110	8.321	80.00- 120.00	100.00
10.146	10.146 (0.746)	43	48013			0.00- 30.00	30.68
10.146	10.146 (0.746)	46	62961			0.00- 30.00	40.23
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.772)	98	262439	8.50026	8.500	80.00- 120.00	100.00
10.477	10.477 (0.770)	61	857423			0.00- 30.00	326.71
10.498	10.498 (0.772)	96	400319			0.00- 30.00	152.54
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	771745	10.0378	10.038	80.00- 120.00	100.00
10.498	10.498 (0.772)	153	501283			36.38- 96.38	64.95
10.498	10.498 (0.772)	101	907763			0.00- 30.00	117.62
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	1085958	8.57501	8.575	80.00- 120.00	100.00
20 Acetone					CAS #: 67-64-1		
10.747	10.747 (0.790)	58	227932	8.42277	8.423	80.00- 120.00	100.00
10.747	10.747 (0.790)	43	849167			0.00- 30.00	372.55
21 2-Propanol					CAS #: 67-63-0		
11.120	11.099 (0.817)	45	726882	7.84584	7.846	80.00- 120.00	100.00
11.120	11.099 (0.817)	43	242367			0.00- 30.00	33.34
11.120	11.099 (0.817)	59	33057			0.00- 30.00	4.55
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	190024	8.51466	8.515	80.00- 120.00	100.00
11.223	11.223 (0.825)	41	615124			0.00- 30.00	323.71
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.471 (0.843)	84	356386	8.40988	8.410	80.00- 120.00	100.00
11.470	11.471 (0.843)	49	601409			0.00- 30.00	168.75
11.470	11.471 (0.843)	51	192523			0.00- 30.00	54.02
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	1071990	8.22752	8.228	80.00- 120.00	100.00
11.800	11.800 (0.867)	57	304066			0.00- 30.00	28.36
11.800	11.800 (0.867)	41	411305			0.00- 30.00	38.37
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	287984	8.58862	8.589	80.00- 120.00	100.00
11.827	11.827 (0.869)	61	777832			0.00- 30.00	270.10
11.827	11.827 (0.869)	96	437873			0.00- 30.00	152.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	681548	8.40489	8.405	80.00- 120.00	100.00
12.129	12.129 (0.892)	43	461059			0.00- 30.00	67.65
12.129	12.129 (0.892)	86	110258			0.00- 30.00	16.18
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	850944	9.01767	9.018	80.00- 120.00	100.00
12.486	12.486 (0.918)	65	283941			0.00- 30.00	33.37
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	754219	7.80848	7.808	80.00- 120.00	100.00
12.541	12.541 (0.922)	42	96054			0.00- 30.00	12.74
12.541	12.541 (0.922)	86	68913			0.00- 30.00	9.14
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.285	13.285 (0.976)	98	268277	8.18789	8.188	80.00- 120.00	100.00
13.285	13.285 (0.976)	61	662109			0.00- 30.00	246.80
13.285	13.285 (0.976)	96	398315			127.14- 187.14	148.47
37 2-Butanone					CAS #: 78-93-3		
13.285	13.285 (0.976)	72	201229	7.85419	7.854	80.00- 120.00	100.00
13.285	13.285 (0.976)	43	920195			0.00- 30.00	457.29
13.285	13.285 (0.976)	57	88226			0.00- 30.00	43.84
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	519642	8.44143	8.441	80.00- 120.00	100.00
13.605	13.605 (1.000)	71	185135			0.00- 30.00	35.63
13.605	13.605 (1.000)	72	196338			0.00- 30.00	37.78
40 Chloroform					CAS #: 67-66-3		
13.667	13.667 (1.005)	83	1015488	8.86222	8.862	80.00- 120.00	100.00
13.667	13.667 (1.005)	85	680252			0.00- 30.00	66.99
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	575381	7.83034	7.830	80.00- 120.00	100.00
13.882	13.882 (1.020)	56	779819			0.00- 30.00	135.53
13.882	13.882 (1.020)	41	509420			0.00- 30.00	88.54
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	1212662	9.25215	9.252	80.00- 120.00	100.00
13.882	13.882 (1.020)	99	788574			0.00- 30.00	65.03
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.037 (1.032)	119	1143517	11.7477	11.748	80.00- 120.00	100.00
14.036	14.037 (1.032)	117	1198525			0.00- 30.00	104.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	1241588	9.02528	9.025	80.00- 120.00	100.00
14.338	14.338 (0.965)	77	325168			0.00- 30.00	26.19
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.311 (1.052)	56	748164	8.27551	8.276	80.00- 120.00	100.00
14.310	14.311 (1.052)	57	2077321			0.00- 30.00	277.66
14.310	14.311 (1.052)	41	780239			0.00- 30.00	104.29
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.448 (0.972)	62	943030	10.4830	10.483	80.00- 120.00	100.00
14.448	14.448 (0.972)	64	318133			0.00- 30.00	33.74
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	485761	9.41087	9.411	80.00- 120.00	100.00
14.530	14.530 (0.978)	100	158642			0.00- 30.00	32.66
14.530	14.530 (0.978)	43	922848			0.00- 30.00	189.98
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	558025	9.35724	9.357	80.00- 120.00	100.00
15.216	15.216 (1.024)	95	609612			0.00- 30.00	109.24
15.216	15.216 (1.024)	97	410859			0.00- 30.00	73.63
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.601	15.601 (1.050)	63	509034	8.89268	8.893	80.00- 120.00	100.00
15.601	15.601 (1.050)	62	381138			0.00- 30.00	74.87
15.601	15.601 (1.050)	41	484166			62.72- 122.72	95.11
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	313447	7.75992	7.760	80.00- 120.00	100.00
15.710	15.710 (1.057)	58	272580			0.00- 30.00	86.96
15.710	15.710 (1.057)	57	106881			0.00- 30.00	34.10
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	1115443	10.0434	10.043	80.00- 120.00	100.00
15.985	15.985 (1.076)	85	721168			0.00- 30.00	64.65
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.680	16.680 (1.123)	75	684383	8.55451	8.554	80.00- 120.00	100.00
16.680	16.680 (1.123)	77	235801			0.00- 30.00	34.45
16.680	16.680 (1.123)	39	528167			47.03- 107.03	77.17
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	1198296	9.79703	9.797	80.00- 120.00	100.00
16.859	16.859 (1.135)	58	450986			0.00- 30.00	37.64
16.859	16.859 (1.135)	85	195201			0.00- 30.00	16.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.151	17.151 (1.154)	91	1493453	9.15109	9.151	80.00- 120.00	100.00
17.151	17.151 (1.154)	92	919057			0.00- 30.00	61.54
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.918)	75	865292	9.32709	9.327	80.00- 120.00	100.00
17.531	17.531 (0.918)	77	295356			0.00- 30.00	34.13
17.531	17.531 (0.918)	39	582151			36.25- 96.25	67.28
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	597437	9.70711	9.707	80.00- 120.00	100.00
17.818	17.818 (0.933)	99	390893			0.00- 30.00	65.43
17.818	17.818 (0.933)	83	506177			55.98- 115.98	84.72
63 Tetrachloroethene					CAS #: 127-18-4		
17.906	17.906 (0.938)	166	830373	10.2047	10.205	80.00- 120.00	100.00
17.906	17.906 (0.938)	129	639746			0.00- 30.00	77.04
17.906	17.906 (0.938)	131	628613			43.88- 103.88	75.70
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.052 (0.945)	58	685104	8.93635	8.936	80.00- 120.00	100.00
18.051	18.052 (0.945)	43	1387373			0.00- 30.00	202.51
18.051	18.052 (0.945)	100	134274			0.00- 30.00	19.60
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	1137406	11.4208	11.421	80.00- 120.00	100.00
18.343	18.343 (0.961)	127	897966			0.00- 30.00	78.95
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	991286	9.38455	9.384	80.00- 120.00	100.00
18.547	18.547 (0.971)	109	925026			0.00- 30.00	93.32
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.142 (1.003)	112	1601568	9.32097	9.321	80.00- 120.00	100.00
19.141	19.142 (1.003)	114	562901			0.00- 30.00	35.15
19.141	19.142 (1.003)	77	1169398			42.08- 102.08	73.02
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.214 (1.006)	106	892440	9.16817	9.168	80.00- 120.00	100.00
19.214	19.214 (1.006)	91	2739518			0.00- 30.00	306.97
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	1153581	9.36251	9.362	80.00- 120.00	100.00
19.358	19.358 (1.014)	91	2289973			0.00- 30.00	198.51
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	1159671	9.41753	9.418	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.042)	91	2442755			0.00- 30.00	210.64
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.043)	104	1766683	9.34275	9.343	80.00- 120.00	100.00
19.912	19.912 (1.043)	78	1075085			0.00- 30.00	60.85
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.058)	173	1240192	12.0331	12.033	80.00- 120.00	100.00
20.201	20.201 (1.058)	171	671489			0.00- 30.00	54.14
76 Cumene					CAS #: 98-82-8		
20.298	20.298 (1.063)	105	3427787	9.90753	9.908	80.00- 120.00	100.00
20.298	20.298 (1.063)	120	974646			0.00- 30.00	28.43
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.086)	83	2051130	9.87547	9.875	80.00- 120.00	100.00
20.729	20.729 (1.086)	85	1349371			0.00- 30.00	65.79
80 Propylbenzene					CAS #: 103-65-1		
20.781	20.781 (1.088)	91	4511997	10.0703	10.070	80.00- 120.00	100.00
20.781	20.781 (1.088)	120	1069354			0.00- 30.00	23.70
82 4-Ethyltoluene					CAS #: 622-96-8		
20.910	20.910 (1.095)	105	4238133	9.69656	9.696	80.00- 120.00	100.00
20.910	20.910 (1.095)	120	1398435			0.00- 30.00	33.00
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.099)	105	3266807	9.83029	9.830	80.00- 120.00	100.00
20.987	20.987 (1.099)	120	1625196			0.00- 30.00	49.75
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.122)	105	3213351	9.56944	9.569	80.00- 120.00	100.00
21.425	21.425 (1.122)	120	1519259			0.00- 30.00	47.28
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.142)	146	2186648	9.56122	9.561	80.00- 120.00	100.00
21.812	21.812 (1.142)	148	1443386			0.00- 30.00	66.01
21.812	21.812 (1.142)	111	993928			0.00- 30.00	45.45
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.148)	146	2190750	9.43579	9.436	80.00- 120.00	100.00
21.915	21.915 (1.148)	148	1447659			0.00- 30.00	66.08
21.915	21.915 (1.148)	111	981992			0.00- 30.00	44.82
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.155)	91	2646225	9.47998	9.480	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.044	22.044 (1.155)	126	556977			0.00- 30.00	21.05
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.354	22.354 (1.171)	146	2072427	9.52272	9.523	80.00- 120.00	100.00
22.354	22.354 (1.171)	148	1342411			35.53- 95.53	64.77
22.354	22.354 (1.171)	111	983128			17.01- 77.01	47.44
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.263)	180	1613018	11.1861	11.186	80.00- 120.00	100.00
24.107	24.107 (1.263)	182	1540231			0.00- 30.00	95.49
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.267)	225	1191743	9.62020	9.620	80.00- 120.00	100.00
24.184	24.184 (1.267)	223	772259			0.00- 30.00	64.80
99 Naphthalene					CAS #: 91-20-3		
24.416	24.417 (1.279)	128	2503725	9.84463	9.845	80.00- 120.00	100.00
24.416	24.417 (1.279)	127	366958			0.00- 30.00	14.66
179 Butane					CAS #: 106-97-8		
6.754	6.737 (0.496)	58	131276	8.75832	8.758	80.00- 120.00	100.00
6.754	6.737 (0.496)	43	903911			0.00- 30.00	688.56
11 Isopentane					CAS #: 78-78-4		
8.736	8.737 (0.642)	57	469884	9.78542	9.785	80.00- 120.00	100.00
8.736	8.737 (0.642)	43	657370			0.00- 30.00	139.90
8.736	8.737 (0.642)	42	580747			0.00- 30.00	123.59
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.409 (1.133)	83	781325	7.98149	7.981	80.00- 120.00	100.00
15.408	15.409 (1.133)	98	389601			0.00- 30.00	49.86
15.408	15.409 (1.133)	55	838496			0.00- 30.00	107.32
26 tert-butyl alcohol					CAS #: 75-65-0		
11.718	11.718 (0.861)	59	816533	7.26181	7.262	80.00- 120.00	100.00
11.718	11.718 (0.861)	41	271293			0.00- 30.00	33.22
11.718	11.718 (0.861)	57	113874			0.00- 30.00	13.95

Report Date: 09-May-2008 12:24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z050805.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdz.i/08May2008.b/t14l0422c.m
Misc Info: 50ppbv -> 10ppbv

Calibration Date: 08-MAY-2008
Calibration Time: 13:18
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	303019	181811	424227	293082	-3.28
52 1,4-Difluorobenze	1056800	634080	1479520	1002617	-5.13
68 Chlorobenzene-d5	1305891	783535	1828247	1207912	-7.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.61	13.28	13.94	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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: 09-May-2008 12:24

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 08May2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: LCS
SpikeList File: SpectraENSR.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdz.i/08May2008.b/t14l0422c.m
Misc Info: 50ppbv -> 10ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
3 Dichlorodifluorome	10.000	9.077	90.77	70-130
1 Propylene	10.000	11.130	111.30	60-140
4 Freon 114	10.000	9.196	91.97	70-130
5 Chloromethane	10.000	9.546	95.46	70-130
6 Vinyl Chloride	10.000	8.532	85.32	70-130
7 1,3-Butadiene	10.000	9.578	95.78	60-140
9 Bromomethane	10.000	8.646	86.46	70-130
10 Chloroethane	10.000	9.017	90.17	70-130
13 Trichlorofluoromet	10.000	9.277	92.77	70-130
14 Ethanol	10.000	8.321	83.21	60-140
17 Freon 113	10.000	10.038	100.38	70-130
15 1,1-Dichloroethene	10.000	8.500	85.00	70-130
20 Acetone	10.000	8.423	84.23	60-140
19 Carbon Disulfide	10.000	8.575	85.75	60-140
21 2-Propanol	10.000	7.846	78.46	60-140
22 3-Chloroprene	10.000	8.515	85.15	60-140
25 Methylene Chloride	10.000	8.410	84.10	70-130
27 MTBE	10.000	8.228	82.28	60-140
28 trans-1,2-Dichloro	10.000	8.589	85.89	60-140
30 Hexane	10.000	8.405	84.05	60-140
31 1,1-Dichloroethane	10.000	9.018	90.18	70-130
33 Vinyl Acetate	10.000	7.808	78.08	60-140
36 cis-1,2-Dichloroet	10.000	8.188	81.88	70-130
37 2-Butanone	10.000	7.854	78.54	60-140
38 Tetrahydrofuran	10.000	8.441	84.41	60-140
40 Chloroform	10.000	8.862	88.62	70-130
42 Cyclohexane	10.000	7.830	78.30	60-140
43 1,1,1-Trichloroeth	10.000	9.252	92.52	70-130
44 Carbon Tetrachlori	10.000	11.748	117.48	70-130
45 2,2,4-Trimethylpen	10.000	8.276	82.76	60-140
46 Benzene	10.000	9.025	90.25	70-130
50 Heptane	10.000	9.411	94.11	60-140
49 1,2-Dichloroethane	10.000	10.483	104.83	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
53 Trichloroethene	10.000	9.357	93.57	70-130
54 1,2-Dichloropropan	10.000	8.893	88.93	70-130
55 1,4-Dioxane	10.000	7.760	77.60	60-140
56 Bromodichlorometha	10.000	10.043	100.43	60-140
57 cis-1,3-Dichloropr	10.000	8.554	85.55	70-130
58 4-Methyl-2-pentano	10.000	9.797	97.97	60-140
60 Toluene	10.000	9.151	91.51	70-130
61 trans-1,3-Dichloro	10.000	9.327	93.27	70-130
62 1,1,2-Trichloroeth	10.000	9.707	97.07	70-130
64 2-Hexanone	10.000	8.936	89.36	60-140
63 Tetrachloroethene	10.000	10.205	102.05	70-130
66 Dibromochlorometha	10.000	11.421	114.21	60-140
67 1,2-Dibromoethane	10.000	9.384	93.85	70-130
69 Chlorobenzene	10.000	9.321	93.21	70-130
70 Ethyl Benzene	10.000	9.168	91.68	70-130
71 m,p-Xylene	10.000	9.362	93.63	70-130
72 o-Xylene	10.000	9.418	94.18	70-130
73 Styrene	10.000	9.343	93.43	70-130
75 Bromoform	10.000	12.033	120.33	60-140
76 Cumene	10.000	9.908	99.08	60-140
79 1,1,2,2-Tetrachlor	10.000	9.875	98.75	70-130
80 Propylbenzene	10.000	10.070	100.70	70-130
82 4-Ethyltoluene	10.000	9.696	96.97	60-140
83 1,3,5-Trimethylben	10.000	9.830	98.30	70-130
85 1,2,4-Trimethylben	10.000	9.569	95.69	70-130
88 1,3-Dichlorobenzen	10.000	9.561	95.61	70-130
89 1,4-Dichlorobenzen	10.000	9.436	94.36	70-130
90 alpha-chlorotoluen	10.000	9.480	94.80	70-130
93 1,2-Dichlorobenzen	10.000	9.523	95.23	70-130
97 1,2,4-Trichloroben	10.000	11.186	111.86	70-130
98 Hexachlorobutadien	10.000	9.620	96.20	60-140
99 Naphthalene	10.000	9.845	98.45	60-140
11 Isopentane	10.000	9.785	97.85	60-140
179 Butane	10.000	8.758	87.58	60-140
167 Methylcyclohexane	10.000	7.981	79.81	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.733	97.33	70-130
$ 59 Toluene-d8	10.000	10.086	100.86	70-130
$ 77 Bromofluorobenzene	10.000	9.933	99.33	70-130

Data File: /chem/msdz.i/08May2008.b/z050805.d

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Date : 08-MAY-2008 14:17

Client ID: LCS-1

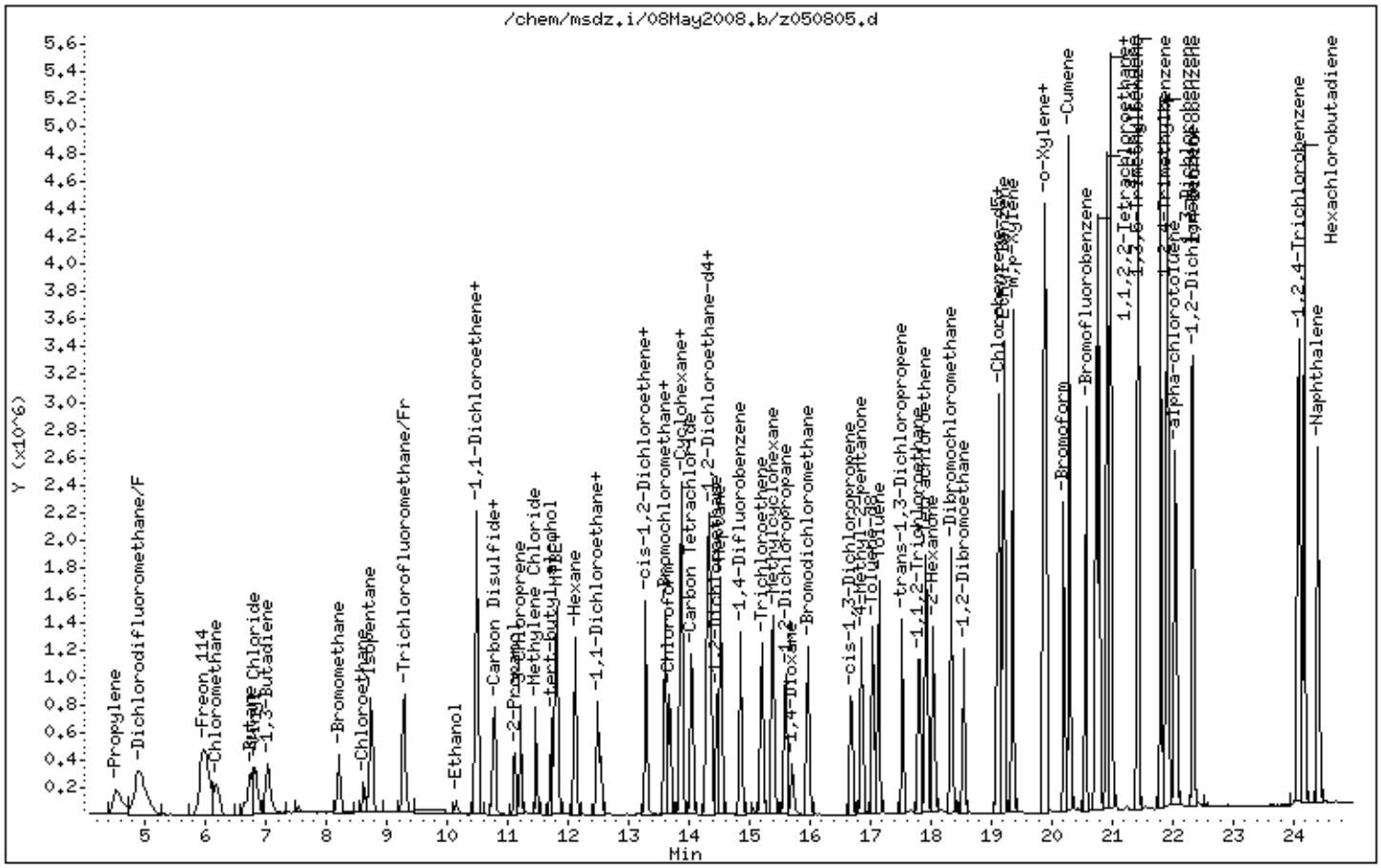
Instrument: msdz.i

Sample Info: 100mL #1541-52;LCS-1;LCS-1

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042225.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 23-APR-2008 11:45
Operator : sjr Inst ID: msdz.i
Smp Info : 25mL #1541-111;ICAL;Level 5
Misc Info : 2.0ppbv -> 0.10ppbv
Comment :
Method : /chem/msdz.i/22Apr2008.b/t14l0422a.m
Meth Date : 25-Apr-2008 07:37 sruth Quant Type: ISTD
Cal Date : 23-APR-2008 11:45 Cal File: z042225.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level#1.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
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	370894	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	292658			48.91- 108.91		78.91
13.605	13.605 (1.000)	49	595194			130.48- 190.48		160.48
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1470525	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	311085			0.00- 51.15		21.15
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	1879394	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	1224202			35.14- 95.14		65.14
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	765801	10.0000	9.565	70.00- 130.00		100.00
14.365	14.365 (1.056)	67	368448			18.11- 78.11		48.11
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1530995	10.0000	9.958	70.00- 130.00		100.00
17.038	17.038 (1.147)	70	241763			0.00- 45.79		15.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1038143			37.81- 97.81	67.81
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.078)	174	1375499	10.0000	9.724	70.00- 130.00	100.00
20.574	20.574 (1.078)	95	1823135			102.54- 162.54	132.54
20.574	20.574 (1.078)	176	1310263			65.26- 125.26	95.26
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.906	4.906 (0.361)	85	39804	0.10000	0.1335	70.00- 130.00	100.00
4.906	4.906 (0.361)	87	9976			0.00- 55.06	25.06
4 Freon 114					CAS #: 76-14-2		
5.991	5.991 (0.440)	135	19436	0.10000	0.1301	70.00- 130.00	100.00
5.967	5.967 (0.439)	137	5440			0.00- 57.99	27.99
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	13050	0.10000	0.1443	70.00- 130.00	100.00
6.208	6.208 (0.456)	52	4682			5.88- 65.88	35.88
6 Vinyl Chloride					CAS #: 75-01-4		
6.840	6.840 (0.503)	62	11665	0.10000	0.1290	70.00- 130.00	100.00
6.858	6.858 (0.504)	64	5075			13.51- 73.51	43.51
7 1,3-Butadiene					CAS #: 106-99-0		
7.031	7.031 (0.517)	54	9737	0.10000	0.1511	70.00- 130.00	100.00
7.014	7.014 (0.516)	39	12227			95.57- 155.57	125.57
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.604)	94	10951	0.10000	0.1545	70.00- 130.00	100.00
8.218	8.218 (0.604)	96	8722			49.65- 109.65	79.65
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	5793	0.10000	0.1426	70.00- 130.00	100.00
8.612	8.612 (0.633)	49	2748			17.44- 77.44	47.44
8.632	8.632 (0.635)	66	2444			12.19- 72.19	42.19
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	28345	0.10000	0.1509	70.00- 130.00	100.00
9.296	9.296 (0.683)	103	17871			33.05- 93.05	63.05
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	15044	0.10000	0.1468	70.00- 130.00	100.00
10.498	10.498 (0.772)	153	9815			35.24- 95.24	65.24
10.498	10.498 (0.772)	101	16504			79.70- 139.70	109.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.772)	98	6326	0.10000	0.1546	70.00- 130.00	100.00
10.498	10.498 (0.772)	61	15862			220.74- 280.74	250.74
10.498	10.498 (0.772)	96	7516			88.81- 148.81	118.81
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	20124	0.10000	0.1214	70.00- 130.00	100.00
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	9529	0.10000	0.1699	70.00- 130.00	100.00
11.470	11.470 (0.843)	49	11864			94.50- 154.50	124.50
11.470	11.470 (0.843)	51	3981			11.78- 71.78	41.78
27 MTBE					CAS #: 1634-04-4		
11.799	11.799 (0.867)	73	18388	0.10000	0.1035	70.00- 130.00	100.00
11.827	11.827 (0.869)	57	7443			10.48- 70.48	40.48
11.799	11.799 (0.867)	41	8242			14.82- 74.82	44.82
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	5857	0.10000	0.1331	70.00- 130.00	100.00
11.827	11.827 (0.869)	61	13645			202.97- 262.97	232.97
11.827	11.827 (0.869)	96	8451			114.29- 174.29	144.29
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	11794	0.10000	0.1117	70.00- 130.00	100.00
12.129	12.129 (0.892)	43	8468			41.80- 101.80	71.80
12.129	12.129 (0.892)	86	1943			0.00- 46.47	16.47
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	14417	0.10000	0.1171	70.00- 130.00	100.00
12.486	12.486 (0.918)	65	6040			11.89- 71.89	41.89
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.979)	72	3494	0.10000	0.1055	70.00- 130.00	100.00
13.326	13.326 (0.979)	43	14726			391.47- 451.47	421.47
13.326	13.326 (0.979)	57	1548			14.30- 74.30	44.30
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	5527	0.10000	0.1286	70.00- 130.00	100.00
13.284	13.284 (0.976)	61	14001			223.32- 283.32	253.32
13.284	13.284 (0.976)	96	8680			127.05- 187.05	157.05
40 Chloroform					CAS #: 67-66-3		
13.666	13.666 (1.005)	83	19529	0.10000	0.1304	70.00- 130.00	100.00
13.666	13.666 (1.005)	85	11819			30.52- 90.52	60.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	19155	0.10000	0.1119	70.00- 130.00	100.00
13.882	13.882 (1.020)	99	12952			37.62- 97.62	67.62
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	12108	0.10000	0.1254	70.00- 130.00	100.00
13.882	13.882 (1.020)	56	19100			127.75- 187.75	157.75
13.851	13.851 (1.018)	41	7677			33.40- 93.40	63.40
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.036 (1.032)	119	14710	0.10000	0.1198	70.00- 130.00	100.00
14.036	14.036 (1.032)	117	16108			79.50- 139.50	109.50
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	14341	0.10000	0.1218	70.00- 130.00	100.00
14.310	14.310 (1.052)	57	43245			271.55- 331.55	301.55
14.310	14.310 (1.052)	41	13842			66.52- 126.52	96.52
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	30631	0.10000	0.1474	70.00- 130.00	100.00
14.338	14.338 (0.965)	77	7064			0.00- 53.06	23.06
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.447	14.447 (0.972)	62	16318	0.10000	0.1217	70.00- 130.00	100.00
14.447	14.447 (0.972)	64	5248			2.16- 62.16	32.16
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	9648	0.10000	0.1248	70.00- 130.00	100.00
14.530	14.530 (0.978)	100	2874			0.00- 59.79	29.79
14.530	14.530 (0.978)	43	18423			160.95- 220.95	190.95
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	11914	0.10000	0.1327	70.00- 130.00	100.00
15.216	15.216 (1.024)	95	12821			77.61- 137.61	107.61
15.216	15.216 (1.024)	97	7919			36.47- 96.47	66.47
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.600	15.600 (1.050)	63	10188	0.10000	0.1185	70.00- 130.00	100.00
15.600	15.600 (1.050)	62	6553			34.32- 94.32	64.32
15.600	15.600 (1.050)	41	9885			67.03- 127.03	97.03
55 1,4-Dioxane					CAS #: 123-91-1		
15.737	15.737 (1.059)	88	8887	0.10000	0.1573	70.00- 130.00	100.00
15.737	15.737 (1.059)	58	6288			40.76- 100.76	70.76
15.710	15.710 (1.057)	57	1925			0.00- 51.66	21.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	19248	0.10000	0.1167	70.00- 130.00	100.00
15.985	15.985 (1.076)	85	12920			37.12- 97.12	67.12
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.702	16.702 (1.124)	75	12141	0.10000	0.1023	70.00- 130.00	100.00
16.702	16.702 (1.124)	77	3945			2.49- 62.49	32.49
16.702	16.702 (1.124)	39	9880			51.38- 111.38	81.38
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	17641	0.10000	0.09870	70.00- 130.00	100.00(a)
16.881	16.881 (1.136)	58	6070			4.41- 64.41	34.41
16.881	16.881 (1.136)	85	3304			0.00- 48.73	18.73
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	31508	0.10000	0.1286	70.00- 130.00	100.00
17.150	17.150 (1.154)	92	18713			29.39- 89.39	59.39
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.553	17.553 (0.919)	75	16102	0.10000	0.1101	70.00- 130.00	100.00
17.531	17.531 (0.918)	77	5611			4.85- 64.85	34.85
17.531	17.531 (0.918)	39	9126			26.68- 86.68	56.68
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	11275	0.10000	0.1147	70.00- 130.00	100.00
17.818	17.818 (0.933)	99	8264			43.29- 103.29	73.29
17.818	17.818 (0.933)	83	9983			58.54- 118.54	88.54
63 Tetrachloroethene					CAS #: 127-18-4		
17.934	17.934 (0.939)	166	14794	0.10000	0.1138	70.00- 130.00	100.00
17.905	17.905 (0.938)	129	12708			55.90- 115.90	85.90
17.934	17.934 (0.939)	131	11865			50.20- 110.20	80.20
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	16333	0.10000	0.1043	70.00- 130.00	100.00
18.343	18.343 (0.961)	127	14159			56.69- 116.69	86.69
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	19941	0.10000	0.1180	70.00- 130.00	100.00
18.547	18.547 (0.971)	109	18542			62.98- 122.98	92.98
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.003)	112	36335	0.10000	0.1308	70.00- 130.00	100.00
19.141	19.141 (1.003)	114	12679			4.89- 64.89	34.89
19.141	19.141 (1.003)	77	52836			115.41- 175.41	145.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
70 Ethyl Benzene					CAS #: 100-41-4		
19.213	19.213 (1.006)	106	19375	0.10000	0.1231	70.00- 130.00	100.00
19.213	19.213 (1.006)	91	55612			257.03- 317.03	287.03
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	23457	0.10000	0.1177	70.00- 130.00	100.00
19.358	19.358 (1.014)	91	48059			174.88- 234.88	204.88
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	23297	0.10000	0.1164	70.00- 130.00	100.00
19.888	19.888 (1.042)	91	50190			185.44- 245.44	215.44
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.043)	104	29622	0.10000	0.09696	70.00- 130.00	100.00(a)
19.912	19.912 (1.043)	78	21704			43.27- 103.27	73.27
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.058)	173	14404	0.10000	0.08957	70.00- 130.00	100.00(a)
20.201	20.201 (1.058)	171	6613			15.91- 75.91	45.91
76 Cumene					CAS #: 98-82-8		
20.297	20.297 (1.063)	105	62939	0.10000	0.1101	70.00- 130.00	100.00
20.297	20.297 (1.063)	120	19093			0.34- 60.34	30.34
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.086)	83	38642	0.10000	0.1145	70.00- 130.00	100.00
20.729	20.729 (1.086)	85	24100			32.37- 92.37	62.37
80 Propylbenzene					CAS #: 103-65-1		
20.780	20.780 (1.088)	91	82654	0.10000	0.1110	70.00- 130.00	100.00
20.806	20.806 (1.090)	120	18251			0.00- 52.08	22.08
82 4-Ethyltoluene					CAS #: 622-96-8		
20.909	20.909 (1.095)	105	77187	0.10000	0.1073	70.00- 130.00	100.00
20.909	20.909 (1.095)	120	25008			2.40- 62.40	32.40
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.099)	105	63862	0.10000	0.1157	70.00- 130.00	100.00
20.987	20.987 (1.099)	120	29260			15.82- 75.82	45.82
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.122)	105	57495	0.10000	0.1030	70.00- 130.00	100.00
21.425	21.425 (1.122)	120	28271			19.17- 79.17	49.17
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.142)	146	38280	0.10000	0.1030	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
88 1,3-Dichlorobenzene (continued)							
21.812	21.812 (1.142)	148	25106			35.59- 95.59	65.59
21.812	21.812 (1.142)	111	18956			19.52- 79.52	49.52
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.148)	146	38158	0.10000	0.1010	70.00- 130.00	100.00
21.915	21.915 (1.148)	148	27068			40.94- 100.94	70.94
21.915	21.915 (1.148)	111	19251			20.45- 80.45	50.45
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.070	22.070 (1.156)	91	31057	0.10000	0.06989	70.00- 130.00	100.00(a)
22.070	22.070 (1.156)	126	9189			0.00- 59.59	29.59
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.353	22.353 (1.171)	146	35910	0.10000	0.1022	70.00- 130.00	100.00
22.353	22.353 (1.171)	148	27976			47.91- 107.91	77.91
22.353	22.353 (1.171)	111	16516			15.99- 75.99	45.99

QC Flag Legend

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

Report Date: 25-Apr-2008 07:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042225.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdz.i/22Apr2008.b/t14l0422a.m
Misc Info: 2.0ppbv -> 0.10ppbv

Calibration Date: 22-APR-2008
Calibration Time: 21:50
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	407140	244284	569996	370894	-8.90
52 1,4-Difluorobenze	1616499	969899	2263099	1470525	-9.03
68 Chlorobenzene-d5	2038617	1223170	2854064	1879394	-7.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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/msdz.i/22Apr2008.b/z042225.d

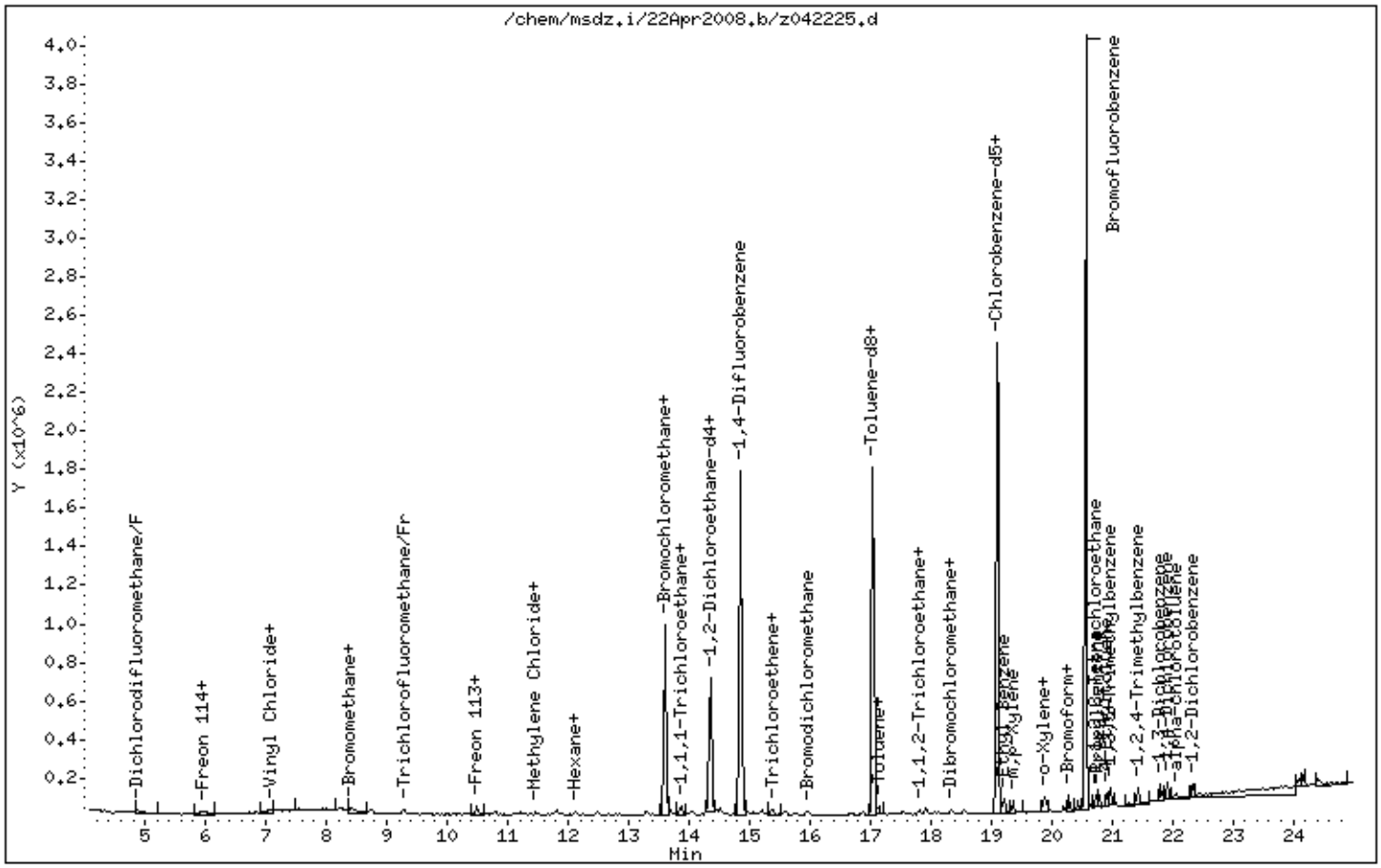
Date : 23-APR-2008 11:45

Client ID: Level 5 Instrument: msdz.i

Sample Info: 25mL #1541-111;ICAL;Level 5

Operator: sjr

Column phase: RTx-624 Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042904.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 29-APR-2008 11:21
Operator : sjr Inst ID: msdz.i
Smp Info : 125mL #1541-116
Misc Info : 2.0ppbv -> 0.5ppbv
Comment :
Method : /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD
Cal Date : 29-APR-2008 11:21 Cal File: z042904.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4b.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	301669	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	234048			0.00- 30.00		77.58
13.605	13.605 (1.000)	49	480418			0.00- 30.00		159.25
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1063156	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	227529			0.00- 30.00		21.40
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1350964	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	883411			0.00- 30.00		65.39
12 Vinyl Bromide						CAS #: 593-60-2		
9.130	9.130 (0.671)	106	22867	0.50000	0.5000	70.00- 130.00		100.00
9.130	9.130 (0.671)	108	22734			0.00- 30.00		99.42
24 Acetonitrile						CAS #: 75-05-8		
11.361	11.361 (0.835)	40	19840	0.50000	0.5000	70.00- 130.00		100.00
11.361	11.361 (0.835)	41	47163			0.00- 30.00		237.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
24 Acetonitrile (continued)							
11.388	11.388 (0.837)	39	25978			0.00- 30.00	130.94
29 Acrylonitrile					CAS #: 107-13-1		
11.965	11.965 (0.879)	53	15326	0.50000	0.5000	70.00- 130.00	100.00
11.965	11.965 (0.879)	52	16642			0.00- 30.00	108.59
34 Chlorprene					CAS #: 126-99-8		
12.569	12.569 (0.924)	53	28444	0.50000	0.5000	70.00- 130.00	100.00
12.569	12.569 (0.924)	88	10130			0.00- 30.00	35.61

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042904.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Misc Info: 2.0ppbv -> 0.5ppbv

Calibration Date: 29-APR-2008
Calibration Time: 13:01
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	327424	196454	458394	301669	-7.87
52 1,4-Difluorobenze	1205511	723307	1687715	1063156	-11.81
68 Chlorobenzene-d5	1420624	852374	1988874	1350964	-4.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/29Apr2008.b/z042904.d

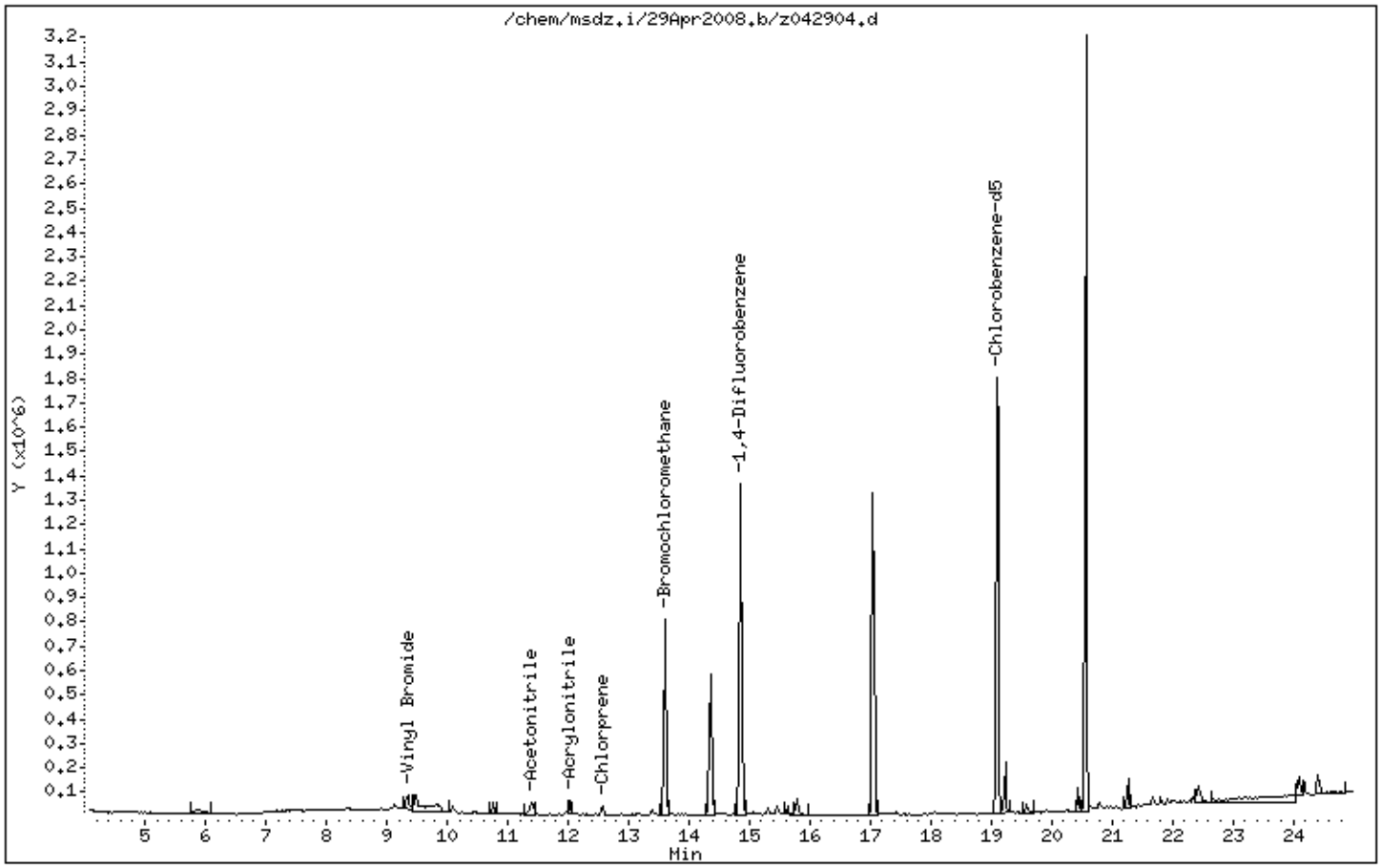
Date : 29-APR-2008 11:21

Client ID: Level 6 Instrument: msdz.i

Sample Info: 125mL #1541-116

Operator: sjr

Column phase: RTx-624 Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042216.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 22-APR-2008 19:38
Operator : ACT Inst ID: msdz.i
Smp Info : 125mL #1541-111
Misc Info : 2.0ppbv -> 0.50ppbv
Comment :
Method : /chem/msdz.i/22Apr2008.b/t14l0422a.m
Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD
Cal Date : 22-APR-2008 19:38 Cal File: z042216.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	364636	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	288442			0.00- 30.00		79.10
13.605	13.605 (1.000)	49	593576			0.00- 30.00		162.79
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1460612	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	320654			0.00- 30.00		21.95
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	1904107	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	1265539			0.00- 30.00		66.46
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	769811	10.0000	9.780	70.00- 130.00		100.00
14.365	14.365 (1.056)	67	362756			0.00- 30.00		47.12
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1560694	10.0000	10.220	70.00- 130.00		100.00
17.038	17.038 (1.147)	70	249902			0.00- 30.00		16.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1052652			37.57- 97.57	67.45
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.078)	174	1473375	10.0000	10.281	70.00- 130.00	100.00
20.574	20.574 (1.078)	95	1983242			103.94- 163.94	134.61
20.574	20.574 (1.078)	176	1415357			66.39- 126.39	96.06
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.331)	41	34875	0.50000	0.4807	70.00- 130.00	100.00(a)
4.521	4.521 (0.332)	42	18965			0.00- 30.00	54.38
4.497	4.497 (0.331)	39	14847			0.00- 30.00	42.57
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.359)	85	171944	0.50000	0.5865	70.00- 130.00	100.00
4.883	4.883 (0.359)	87	62498			5.02- 65.02	36.35
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.439)	135	85982	0.50000	0.5854	70.00- 130.00	100.00
5.991	5.991 (0.440)	137	30524			0.00- 30.00	35.50
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	46797	0.50000	0.5263	70.00- 130.00	100.00
6.184	6.184 (0.455)	52	17354			0.00- 30.00	37.08
6 Vinyl Chloride					CAS #: 75-01-4		
6.841	6.841 (0.503)	62	53034	0.50000	0.5966	70.00- 130.00	100.00
6.823	6.823 (0.502)	64	17903			4.56- 64.56	33.76
7 1,3-Butadiene					CAS #: 106-99-0		
7.014	7.014 (0.516)	54	29433	0.50000	0.4646	70.00- 130.00	100.00(a)
7.032	7.032 (0.517)	39	40563			0.00- 30.00	137.81
9 Bromomethane					CAS #: 74-83-9		
8.198	8.198 (0.603)	94	41617	0.50000	0.5973	70.00- 130.00	100.00
8.198	8.198 (0.603)	96	34715			62.26- 122.26	83.42
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	21473	0.50000	0.5379	70.00- 130.00	100.00
8.612	8.612 (0.633)	49	7036			0.00- 30.00	32.77
8.612	8.612 (0.633)	66	9048			0.00- 30.00	42.14
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	101690	0.50000	0.5505	70.00- 130.00	100.00
9.296	9.296 (0.683)	103	72105			36.19- 96.19	70.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.747)	45	15816	0.50000	0.6574	70.00- 130.00	100.00
10.146	10.146 (0.746)	43	5463			0.00- 30.00	34.54
10.166	10.166 (0.747)	46	9305			0.00- 30.00	58.83
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	58711	0.50000	0.5825	70.00- 130.00	100.00
10.498	10.498 (0.772)	153	37286			35.16- 95.16	63.51
10.498	10.498 (0.772)	101	72246			0.00- 30.00	123.05
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.772)	98	22834	0.50000	0.5674	70.00- 130.00	100.00
10.477	10.477 (0.770)	61	67644			0.00- 30.00	296.24
10.498	10.498 (0.772)	96	32634			0.00- 30.00	142.92
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.791)	58	24736	0.50000	0.7021	70.00- 130.00	100.00
10.767	10.767 (0.791)	43	82707			0.00- 30.00	334.36
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	14696	0.50000	0.5124	70.00- 130.00	100.00
11.223	11.223 (0.825)	41	48039			0.00- 30.00	326.88
21 2-Propanol					CAS #: 67-63-0		
11.120	11.120 (0.817)	45	69916	0.50000	0.5844	70.00- 130.00	100.00
11.120	11.120 (0.817)	43	18449			0.00- 30.00	26.39
11.120	11.120 (0.817)	59	2882			0.00- 30.00	4.12
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	90376	0.50000	0.5547	70.00- 130.00	100.00
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	28154	0.50000	0.5105	70.00- 130.00	100.00
11.470	11.470 (0.843)	49	42957			0.00- 30.00	152.58
11.470	11.470 (0.843)	51	14320			0.00- 30.00	50.86
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	106275	0.50000	0.6087	70.00- 130.00	100.00
11.800	11.800 (0.867)	57	26817			0.00- 30.00	25.23
11.800	11.800 (0.867)	41	28326			0.00- 30.00	26.65
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	25198	0.50000	0.5825	70.00- 130.00	100.00
11.827	11.827 (0.869)	61	62405			0.00- 30.00	247.66
11.827	11.827 (0.869)	96	35874			0.00- 30.00	142.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	61954	0.50000	0.5968	70.00- 130.00	100.00
12.129	12.129 (0.892)	43	35230			0.00- 30.00	56.86
12.129	12.129 (0.892)	86	10786			0.00- 30.00	17.41
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	65986	0.50000	0.5452	70.00- 130.00	100.00
12.486	12.486 (0.918)	65	21106			0.00- 30.00	31.99
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	58623	0.50000	0.4724	70.00- 130.00	100.00(a)
12.541	12.541 (0.922)	42	7488			0.00- 30.00	12.77
12.541	12.541 (0.922)	86	6068			0.00- 30.00	10.35
37 2-Butanone					CAS #: 78-93-3		
13.305	13.305 (0.978)	72	18143	0.50000	0.5571	70.00- 130.00	100.00
13.305	13.305 (0.978)	43	76505			0.00- 30.00	421.68
13.305	13.305 (0.978)	57	7443			0.00- 30.00	41.02
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.285	13.285 (0.976)	98	23856	0.50000	0.5646	70.00- 130.00	100.00
13.285	13.285 (0.976)	61	59339			0.00- 30.00	248.74
13.285	13.285 (0.976)	96	33959			124.79- 184.79	142.35
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	48385	0.50000	0.6205	70.00- 130.00	100.00
13.605	13.605 (1.000)	71	19486			0.00- 30.00	40.27
13.605	13.605 (1.000)	72	22495			0.00- 30.00	46.49
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.007)	83	79820	0.50000	0.5420	70.00- 130.00	100.00
13.697	13.697 (1.007)	85	58084			0.00- 30.00	72.77
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	96150	0.50000	0.5712	70.00- 130.00	100.00
13.882	13.882 (1.020)	99	64658			0.00- 30.00	67.25
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	56437	0.50000	0.5944	70.00- 130.00	100.00
13.882	13.882 (1.020)	56	68989			0.00- 30.00	122.24
13.882	13.882 (1.020)	41	41923			0.00- 30.00	74.28
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.034)	119	69474	0.50000	0.5757	70.00- 130.00	100.00
14.067	14.067 (1.034)	117	73759			0.00- 30.00	106.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	64296	0.50000	0.5555	70.00- 130.00	100.00
14.310	14.310 (1.052)	57	192037			0.00- 30.00	298.68
14.310	14.310 (1.052)	41	65868			0.00- 30.00	102.44
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	114720	0.50000	0.5558	70.00- 130.00	100.00
14.338	14.338 (0.965)	77	31072			0.00- 30.00	27.09
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.448 (0.972)	62	73919	0.50000	0.5548	70.00- 130.00	100.00
14.448	14.448 (0.972)	64	25648			0.00- 30.00	34.70
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	43297	0.50000	0.5640	70.00- 130.00	100.00
14.530	14.530 (0.978)	100	13447			0.00- 30.00	31.06
14.530	14.530 (0.978)	43	71993			0.00- 30.00	166.28
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	52012	0.50000	0.5832	70.00- 130.00	100.00
15.216	15.216 (1.024)	95	56753			0.00- 30.00	109.12
15.216	15.216 (1.024)	97	40175			0.00- 30.00	77.24
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.601	15.601 (1.050)	63	48757	0.50000	0.5711	70.00- 130.00	100.00
15.601	15.601 (1.050)	62	34134			0.00- 30.00	70.01
15.601	15.601 (1.050)	41	41683			47.90- 107.90	85.49
55 1,4-Dioxane					CAS #: 123-91-1		
15.738	15.738 (1.059)	88	31614	0.50000	0.5635	70.00- 130.00	100.00
15.710	15.710 (1.057)	58	26162			0.00- 30.00	82.75
15.738	15.738 (1.059)	57	10980			0.00- 30.00	34.73
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	89916	0.50000	0.5487	70.00- 130.00	100.00
15.985	15.985 (1.076)	85	57992			0.00- 30.00	64.50
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.702	16.702 (1.124)	75	62905	0.50000	0.5337	70.00- 130.00	100.00
16.702	16.702 (1.124)	77	20277			0.00- 30.00	32.23
16.702	16.702 (1.124)	39	42622			37.73- 97.73	67.76
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	93846	0.50000	0.5286	70.00- 130.00	100.00
16.859	16.859 (1.135)	58	38218			0.00- 30.00	40.72
16.859	16.859 (1.135)	85	18585			0.00- 30.00	19.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.151	17.151 (1.154)	91	138230	0.50000	0.5681	70.00- 130.00	100.00
17.151	17.151 (1.154)	92	80237			0.00- 30.00	58.05
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.918)	75	82373	0.50000	0.5561	70.00- 130.00	100.00
17.531	17.531 (0.918)	77	26731			0.00- 30.00	32.45
17.531	17.531 (0.918)	39	44039			29.55- 89.55	53.46
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	55902	0.50000	0.5612	70.00- 130.00	100.00
17.818	17.818 (0.933)	99	33824			0.00- 30.00	60.51
17.818	17.818 (0.933)	83	46911			56.32- 116.32	83.92
63 Tetrachloroethene					CAS #: 127-18-4		
17.935	17.935 (0.939)	166	73015	0.50000	0.5542	70.00- 130.00	100.00
17.935	17.935 (0.939)	129	55119			0.00- 30.00	75.49
17.906	17.906 (0.938)	131	56912			43.64- 103.64	77.95
64 2-Hexanone					CAS #: 591-78-6		
18.081	18.081 (0.947)	58	66298	0.50000	0.5390	70.00- 130.00	100.00
18.081	18.081 (0.947)	43	117291			0.00- 30.00	176.91
18.081	18.081 (0.947)	100	14169			0.00- 30.00	21.37
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	83770	0.50000	0.5280	70.00- 130.00	100.00
18.343	18.343 (0.961)	127	62983			0.00- 30.00	75.19
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	91913	0.50000	0.5369	70.00- 130.00	100.00
18.547	18.547 (0.971)	109	87887			0.00- 30.00	95.62
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.003)	112	156404	0.50000	0.5560	70.00- 130.00	100.00
19.141	19.141 (1.003)	114	54799			0.00- 30.00	35.04
19.141	19.141 (1.003)	77	137741			43.25- 103.25	88.07
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.214 (1.006)	106	86938	0.50000	0.5451	70.00- 130.00	100.00
19.214	19.214 (1.006)	91	273372			0.00- 30.00	314.44
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	113627	0.50000	0.5627	70.00- 130.00	100.00
19.358	19.358 (1.014)	91	228273			0.00- 30.00	200.90
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	112820	0.50000	0.5563	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.042)	91	241688			0.00- 30.00	214.22
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.043)	104	172664	0.50000	0.5578	70.00- 130.00	100.00
19.912	19.912 (1.043)	78	100015			0.00- 30.00	57.92
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.058)	173	80329	0.50000	0.4930	70.00- 130.00	100.00(a)
20.201	20.201 (1.058)	171	42045			0.00- 30.00	52.34
76 Cumene					CAS #: 98-82-8		
20.298	20.298 (1.063)	105	337375	0.50000	0.5823	70.00- 130.00	100.00
20.298	20.298 (1.063)	120	92995			0.00- 30.00	27.56
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.086)	83	196150	0.50000	0.5735	70.00- 130.00	100.00
20.729	20.729 (1.086)	85	124057			0.00- 30.00	63.25
80 Propylbenzene					CAS #: 103-65-1		
20.781	20.781 (1.088)	91	415563	0.50000	0.5509	70.00- 130.00	100.00
20.781	20.781 (1.088)	120	107691			0.00- 30.00	25.91
82 4-Ethyltoluene					CAS #: 622-96-8		
20.910	20.910 (1.095)	105	405209	0.50000	0.5561	70.00- 130.00	100.00
20.910	20.910 (1.095)	120	133117			0.00- 30.00	32.85
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.099)	105	316042	0.50000	0.5652	70.00- 130.00	100.00
20.987	20.987 (1.099)	120	156707			0.00- 30.00	49.58
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.122)	105	327713	0.50000	0.5795	70.00- 130.00	100.00
21.425	21.425 (1.122)	120	156386			0.00- 30.00	47.72
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.142)	146	212932	0.50000	0.5656	70.00- 130.00	100.00
21.812	21.812 (1.142)	148	139479			0.00- 30.00	65.50
21.812	21.812 (1.142)	111	98559			0.00- 30.00	46.29
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.148)	146	219267	0.50000	0.5730	70.00- 130.00	100.00
21.915	21.915 (1.148)	148	142710			0.00- 30.00	65.09
21.915	21.915 (1.148)	111	96559			0.00- 30.00	44.04
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.155)	91	224976	0.50000	0.4997	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.070	22.070 (1.156)	126	46129			0.00- 30.00	20.50
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.354	22.354 (1.171)	146	202465	0.50000	0.5689	70.00- 130.00	100.00
22.354	22.354 (1.171)	148	125398			35.51- 95.51	61.94
22.354	22.354 (1.171)	111	103291			17.92- 77.92	51.02
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.263)	180	136704	0.50000	0.5842	70.00- 130.00	100.00
24.107	24.107 (1.263)	182	125124			0.00- 30.00	91.53
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.267)	225	120569	0.50000	0.5919	70.00- 130.00	100.00
24.184	24.184 (1.267)	223	78269			0.00- 30.00	64.92
99 Naphthalene					CAS #: 91-20-3		
24.416	24.416 (1.279)	128	222272	0.50000	0.5352	70.00- 130.00	100.00
24.416	24.416 (1.279)	127	32598			0.00- 30.00	14.67
179 Butane					CAS #: 106-97-8		
6.737	6.737 (0.495)	58	12695	0.50000	0.6548	70.00- 130.00	100.00
6.737	6.737 (0.495)	43	74308			0.00- 30.00	585.33
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	37857	0.50000	0.6112	70.00- 130.00	100.00
8.736	8.736 (0.642)	43	52630			0.00- 30.00	139.02
8.736	8.736 (0.642)	42	43876			0.00- 30.00	115.90
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.408 (1.133)	83	73979	0.50000	0.5852	70.00- 130.00	100.00
15.408	15.408 (1.133)	98	38905			0.00- 30.00	52.59
15.408	15.408 (1.133)	55	73260			0.00- 30.00	99.03
26 tert-butyl alcohol					CAS #: 75-65-0		
11.718	11.718 (0.861)	59	88988	0.50000	0.6009	70.00- 130.00	100.00
11.718	11.718 (0.861)	41	27710			0.00- 30.00	31.14
11.718	11.718 (0.861)	57	15755			0.00- 30.00	17.70

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: msdz.i
Lab File ID: z042216.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ACT
Method File: /chem/msdz.i/22Apr2008.b/t14l0422a.m
Misc Info: 2.0ppbv -> 0.50ppbv

Calibration Date: 22-APR-2008
Calibration Time: 21:50
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	407140	244284	569996	364636	-10.44
52 1,4-Difluorobenze	1616499	969899	2263099	1460612	-9.64
68 Chlorobenzene-d5	2038617	1223170	2854064	1904107	-6.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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/msdz.i/22Apr2008.b/z042216.d

Date : 22-APR-2008 19:38

Client ID: Level 6

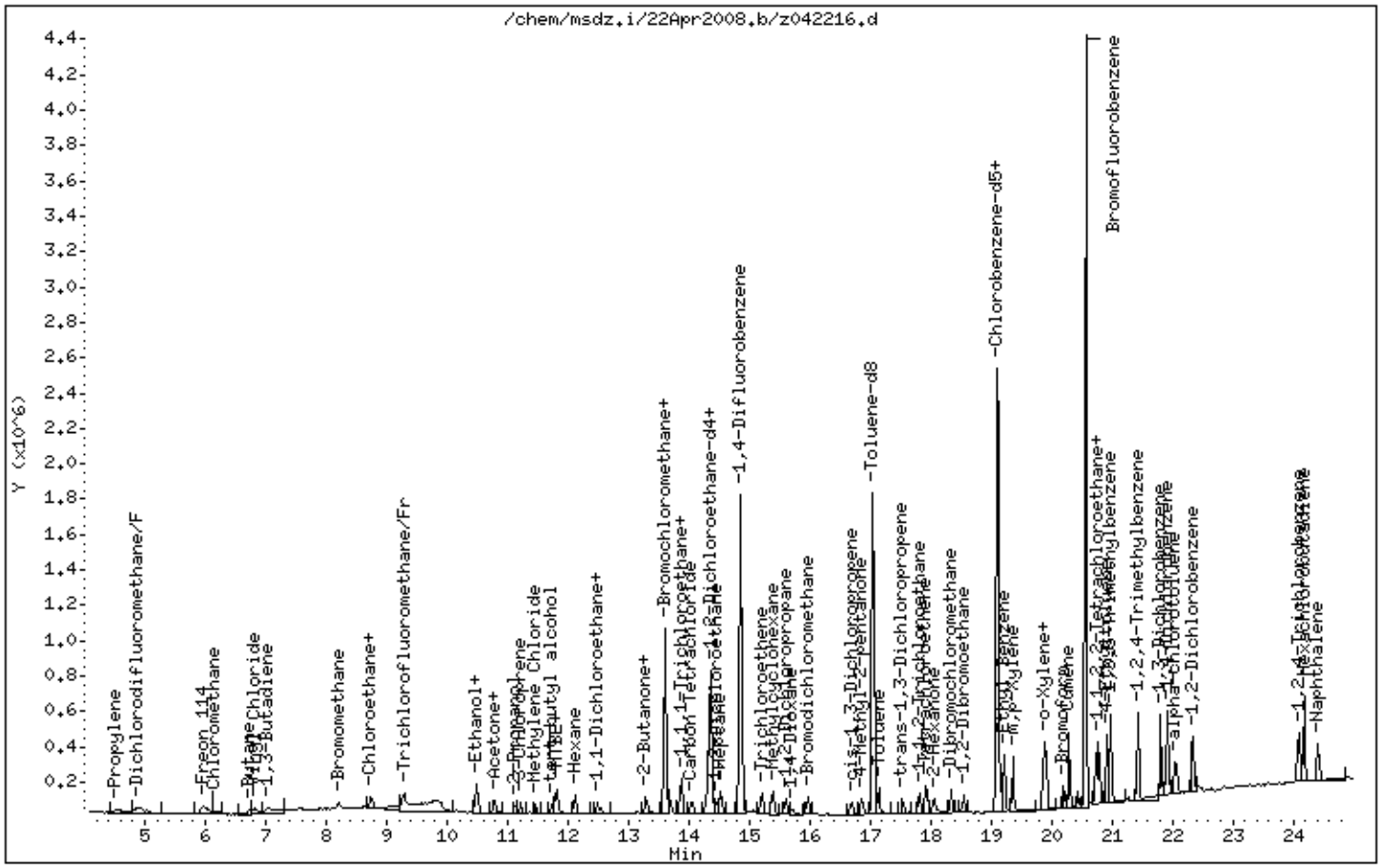
Instrument: msdz.i

Sample Info: 125mL #1541-111

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042905.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 29-APR-2008 12:17
Operator : sjr Inst ID: msdz.i
Smp Info : 500mL #1541-116
Misc Info : 2.0ppbv -> 2.0ppbv
Comment :
Method : /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD
Cal Date : 29-APR-2008 12:17 Cal File: z042905.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4b.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	305530	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	245839			0.00- 30.00		80.46
13.605	13.605 (1.000)	49	493499			0.00- 30.00		161.52
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1114642	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	223447			0.00- 30.00		20.05
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1377765	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	907283			0.00- 30.00		65.85
12 Vinyl Bromide						CAS #: 593-60-2		
9.130	9.130 (0.671)	106	81898	2.00000	1.877	70.00- 130.00		100.00
9.130	9.130 (0.671)	108	79662			0.00- 30.00		97.27
24 Acetonitrile						CAS #: 75-05-8		
11.333	11.333 (0.833)	40	76106	2.00000	1.945	70.00- 130.00		100.00
11.333	11.333 (0.833)	41	88138			0.00- 30.00		115.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
24 Acetonitrile (continued)							
11.388	11.388 (0.837)	39	83230			0.00- 30.00	109.36
29 Acrylonitrile					CAS #: 107-13-1		
11.937	11.937 (0.877)	53	68912	2.00000	2.104	70.00- 130.00	100.00
11.937	11.937 (0.877)	52	67928			0.00- 30.00	98.57
34 Chlorprene					CAS #: 126-99-8		
12.569	12.569 (0.924)	53	111111	2.00000	1.964	70.00- 130.00	100.00
12.569	12.569 (0.924)	88	47618			0.00- 30.00	42.86

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042905.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Misc Info: 2.0ppbv -> 2.0ppbv

Calibration Date: 29-APR-2008
Calibration Time: 13:01
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	327424	196454	458394	305530	-6.69
52 1,4-Difluorobenze	1205511	723307	1687715	1114642	-7.54
68 Chlorobenzene-d5	1420624	852374	1988874	1377765	-3.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.61	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/29Apr2008.b/z042905.d

Date : 29-APR-2008 12:17

Client ID: Level 7

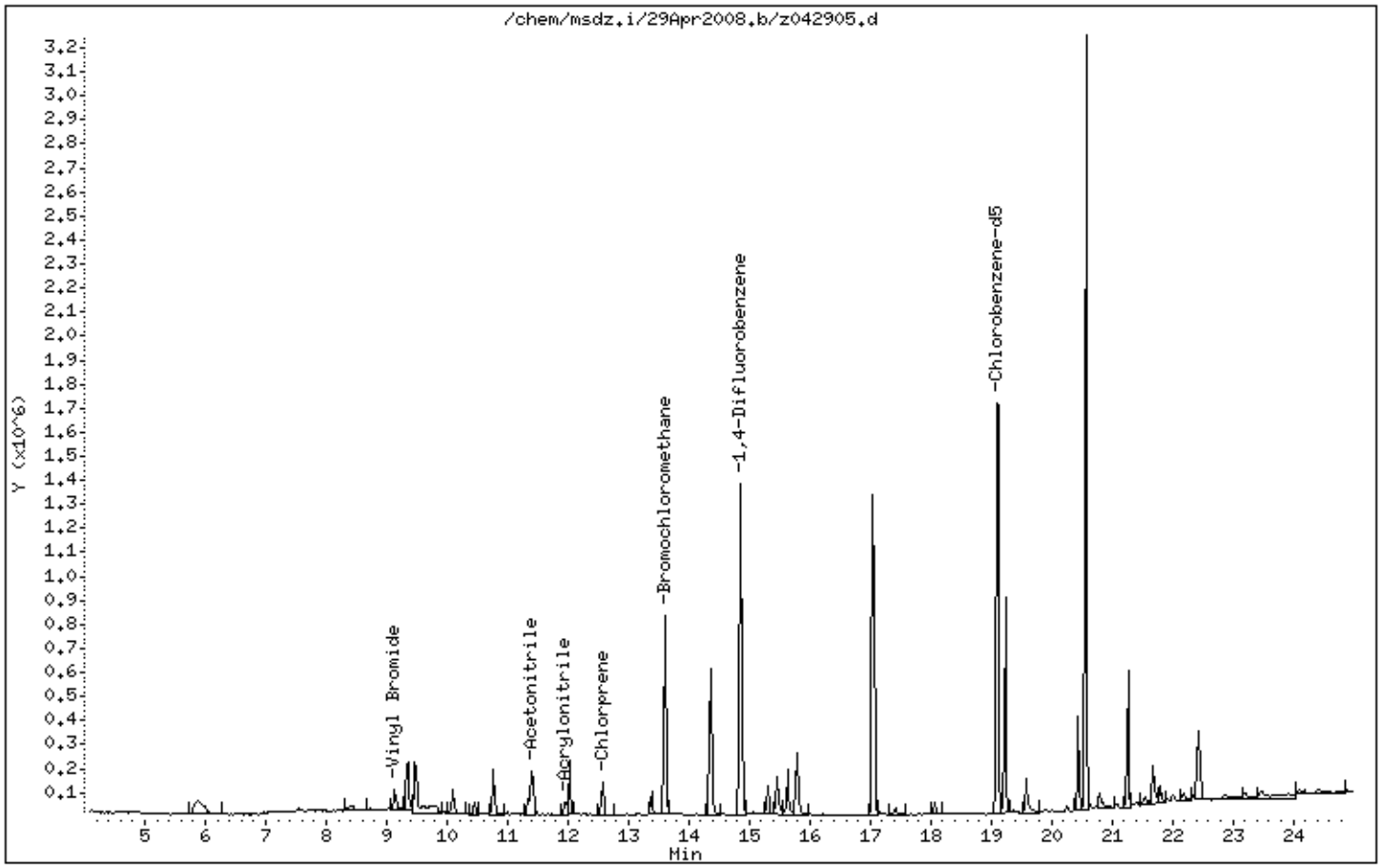
Instrument: msdz.i

Sample Info: 500mL #1541-116

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042217.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 22-APR-2008 20:39
Operator : ACT Inst ID: msdz.i
Smp Info : 500mL #1541-111
Misc Info : 2.0ppbv -> 2.0ppbv
Comment :
Method : /chem/msdz.i/22Apr2008.b/t14l0422a.m
Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD
Cal Date : 22-APR-2008 20:39 Cal File: z042217.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	384475	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	297268			0.00- 30.00		77.32
13.605	13.605 (1.000)	49	643136			0.00- 30.00		167.28
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.860	14.860 (1.000)	114	1513184	10.0000		70.00- 130.00		100.00
14.860	14.860 (1.000)	88	326777			0.00- 30.00		21.60
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	1831918	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	1224283			0.00- 30.00		66.83
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	806493	10.0000	9.717	70.00- 130.00		100.00
14.365	14.365 (1.056)	67	399131			0.00- 30.00		49.49
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.039	17.039 (1.147)	98	1521654	10.0000	9.618	70.00- 130.00		100.00
17.039	17.039 (1.147)	70	241138			0.00- 30.00		15.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.039	17.039 (1.147)	100	1029138			37.57- 97.57	67.63
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.575	20.575 (1.078)	174	1416871	10.0000	10.277	70.00- 130.00	100.00
20.575	20.575 (1.078)	95	1887367			103.94- 163.94	133.21
20.575	20.575 (1.078)	176	1344946			66.39- 126.39	94.92
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	164970	2.00000	2.157	70.00- 130.00	100.00
4.521	4.521 (0.332)	42	118901			0.00- 30.00	72.07
4.521	4.521 (0.332)	39	146659			0.00- 30.00	88.90
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	596240	2.00000	1.929	70.00- 130.00	100.00
4.883	4.883 (0.359)	87	209234			5.02- 65.02	35.09
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.439)	135	321118	2.00000	2.073	70.00- 130.00	100.00
5.992	5.992 (0.440)	137	112721			0.00- 30.00	35.10
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	180208	2.00000	1.922	70.00- 130.00	100.00
6.184	6.184 (0.455)	52	64551			0.00- 30.00	35.82
6 Vinyl Chloride					CAS #: 75-01-4		
6.841	6.841 (0.503)	62	195963	2.00000	2.091	70.00- 130.00	100.00
6.824	6.824 (0.502)	64	70650			4.56- 64.56	36.05
7 1,3-Butadiene					CAS #: 106-99-0		
7.014	7.014 (0.516)	54	136202	2.00000	2.039	70.00- 130.00	100.00
7.014	7.014 (0.516)	39	143045			0.00- 30.00	105.02
9 Bromomethane					CAS #: 74-83-9		
8.198	8.198 (0.603)	94	143070	2.00000	1.947	70.00- 130.00	100.00
8.198	8.198 (0.603)	96	133887			62.26- 122.26	93.58
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	86786	2.00000	2.062	70.00- 130.00	100.00
8.612	8.612 (0.633)	49	27170			0.00- 30.00	31.31
8.612	8.612 (0.633)	66	29395			0.00- 30.00	33.87
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	407652	2.00000	2.093	70.00- 130.00	100.00
9.296	9.296 (0.683)	103	265567			36.19- 96.19	65.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.146	10.146 (0.746)	45	57312	2.00000	2.259	70.00- 130.00	100.00
10.146	10.146 (0.746)	43	19148			0.00- 30.00	33.41
10.166	10.166 (0.747)	46	25943			0.00- 30.00	45.27
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	228254	2.00000	2.148	70.00- 130.00	100.00
10.498	10.498 (0.772)	153	151607			35.16- 95.16	66.42
10.498	10.498 (0.772)	101	279410			0.00- 30.00	122.41
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.477	10.477 (0.770)	98	85963	2.00000	2.026	70.00- 130.00	100.00
10.477	10.477 (0.770)	61	255341			0.00- 30.00	297.04
10.498	10.498 (0.772)	96	125624			0.00- 30.00	146.14
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.791)	58	84397	2.00000	2.272	70.00- 130.00	100.00
10.767	10.767 (0.791)	43	309471			0.00- 30.00	366.68
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	67791	2.00000	2.242	70.00- 130.00	100.00
11.223	11.223 (0.825)	41	199694			0.00- 30.00	294.57
21 2-Propanol					CAS #: 67-63-0		
11.120	11.120 (0.817)	45	277883	2.00000	2.203	70.00- 130.00	100.00
11.120	11.120 (0.817)	43	66046			0.00- 30.00	23.77
11.120	11.120 (0.817)	59	12649			0.00- 30.00	4.55
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	358905	2.00000	2.089	70.00- 130.00	100.00
25 Methylene Chloride					CAS #: 75-09-2		
11.471	11.471 (0.843)	84	117700	2.00000	2.024	70.00- 130.00	100.00
11.471	11.471 (0.843)	49	168561			0.00- 30.00	143.21
11.471	11.471 (0.843)	51	54166			0.00- 30.00	46.02
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	421226	2.00000	2.288	70.00- 130.00	100.00
11.800	11.800 (0.867)	57	112090			0.00- 30.00	26.61
11.800	11.800 (0.867)	41	133123			0.00- 30.00	31.60
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	90922	2.00000	1.993	70.00- 130.00	100.00
11.827	11.827 (0.869)	61	242752			0.00- 30.00	266.99
11.827	11.827 (0.869)	96	139089			0.00- 30.00	152.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	230804	2.00000	2.109	70.00- 130.00	100.00
12.129	12.129 (0.892)	43	150353			0.00- 30.00	65.14
12.129	12.129 (0.892)	86	38707			0.00- 30.00	16.77
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	273162	2.00000	2.140	70.00- 130.00	100.00
12.486	12.486 (0.918)	65	92951			0.00- 30.00	34.03
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	286498	2.00000	2.189	70.00- 130.00	100.00
12.541	12.541 (0.922)	42	35301			0.00- 30.00	12.32
12.541	12.541 (0.922)	86	28244			0.00- 30.00	9.86
37 2-Butanone					CAS #: 78-93-3		
13.305	13.305 (0.978)	72	70647	2.00000	2.057	70.00- 130.00	100.00
13.285	13.285 (0.976)	43	288179			0.00- 30.00	407.91
13.305	13.305 (0.978)	57	27018			0.00- 30.00	38.24
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.285	13.285 (0.976)	98	90796	2.00000	2.038	70.00- 130.00	100.00
13.285	13.285 (0.976)	61	222454			0.00- 30.00	245.00
13.285	13.285 (0.976)	96	134795			124.79- 184.79	148.46
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	175244	2.00000	2.131	70.00- 130.00	100.00
13.605	13.605 (1.000)	71	73897			0.00- 30.00	42.17
13.605	13.605 (1.000)	72	78931			0.00- 30.00	45.04
40 Chloroform					CAS #: 67-66-3		
13.667	13.667 (1.005)	83	320022	2.00000	2.061	70.00- 130.00	100.00
13.667	13.667 (1.005)	85	218614			0.00- 30.00	68.31
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	375910	2.00000	2.118	70.00- 130.00	100.00
13.882	13.882 (1.020)	99	243625			0.00- 30.00	64.81
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	198718	2.00000	1.985	70.00- 130.00	100.00
13.882	13.882 (1.020)	56	256175			0.00- 30.00	128.91
13.882	13.882 (1.020)	41	161556			0.00- 30.00	81.30
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.037	14.037 (1.032)	119	271821	2.00000	2.136	70.00- 130.00	100.00
14.067	14.067 (1.034)	117	281651			0.00- 30.00	103.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.311	14.311 (1.052)	56	255869	2.00000	2.097	70.00- 130.00	100.00
14.311	14.311 (1.052)	57	713119			0.00- 30.00	278.70
14.311	14.311 (1.052)	41	237476			0.00- 30.00	92.81
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	426554	2.00000	1.995	70.00- 130.00	100.00
14.338	14.338 (0.965)	77	110615			0.00- 30.00	25.93
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.448 (0.972)	62	286255	2.00000	2.074	70.00- 130.00	100.00
14.448	14.448 (0.972)	64	100159			0.00- 30.00	34.99
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	163998	2.00000	2.062	70.00- 130.00	100.00
14.530	14.530 (0.978)	100	52271			0.00- 30.00	31.87
14.530	14.530 (0.978)	43	282291			0.00- 30.00	172.13
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	185042	2.00000	2.003	70.00- 130.00	100.00
15.216	15.216 (1.024)	95	209537			0.00- 30.00	113.24
15.216	15.216 (1.024)	97	140029			0.00- 30.00	75.67
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.601	15.601 (1.050)	63	184705	2.00000	2.088	70.00- 130.00	100.00
15.601	15.601 (1.050)	62	128915			0.00- 30.00	69.80
15.601	15.601 (1.050)	41	147329			47.90- 107.90	79.76
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	126036	2.00000	2.168	70.00- 130.00	100.00
15.710	15.710 (1.057)	58	103176			0.00- 30.00	81.86
15.710	15.710 (1.057)	57	43133			0.00- 30.00	34.22
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	340817	2.00000	2.007	70.00- 130.00	100.00
15.985	15.985 (1.076)	85	224252			0.00- 30.00	65.80
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.703	16.703 (1.124)	75	245775	2.00000	2.013	70.00- 130.00	100.00
16.703	16.703 (1.124)	77	84049			0.00- 30.00	34.20
16.680	16.680 (1.123)	39	173861			37.73- 97.73	70.74
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	395006	2.00000	2.148	70.00- 130.00	100.00
16.859	16.859 (1.135)	58	154124			0.00- 30.00	39.02
16.859	16.859 (1.135)	85	75753			0.00- 30.00	19.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.151	17.151 (1.154)	91	500825	2.00000	1.987	70.00- 130.00	100.00
17.151	17.151 (1.154)	92	311846			0.00- 30.00	62.27
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.918)	75	302601	2.00000	2.123	70.00- 130.00	100.00
17.531	17.531 (0.918)	77	99074			0.00- 30.00	32.74
17.531	17.531 (0.918)	39	173551			29.55- 89.55	57.35
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	205970	2.00000	2.149	70.00- 130.00	100.00
17.818	17.818 (0.933)	99	127700			0.00- 30.00	62.00
17.818	17.818 (0.933)	83	175471			56.32- 116.32	85.19
63 Tetrachloroethene					CAS #: 127-18-4		
17.935	17.935 (0.939)	166	278984	2.00000	2.201	70.00- 130.00	100.00
17.906	17.906 (0.938)	129	214764			0.00- 30.00	76.98
17.906	17.906 (0.938)	131	206886			43.64- 103.64	74.16
64 2-Hexanone					CAS #: 591-78-6		
18.052	18.052 (0.945)	58	244027	2.00000	2.062	70.00- 130.00	100.00
18.052	18.052 (0.945)	43	415373			0.00- 30.00	170.22
18.052	18.052 (0.945)	100	53908			0.00- 30.00	22.09
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	328940	2.00000	2.155	70.00- 130.00	100.00
18.343	18.343 (0.961)	127	267765			0.00- 30.00	81.40
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	351171	2.00000	2.132	70.00- 130.00	100.00
18.547	18.547 (0.971)	109	337774			0.00- 30.00	96.19
69 Chlorobenzene					CAS #: 108-90-7		
19.142	19.142 (1.003)	112	576754	2.00000	2.131	70.00- 130.00	100.00
19.142	19.142 (1.003)	114	203963			0.00- 30.00	35.36
19.142	19.142 (1.003)	77	440164			43.25- 103.25	76.32
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.214 (1.006)	106	335095	2.00000	2.184	70.00- 130.00	100.00
19.214	19.214 (1.006)	91	1012378			0.00- 30.00	302.12
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	419769	2.00000	2.161	70.00- 130.00	100.00
19.358	19.358 (1.014)	91	857768			0.00- 30.00	204.34
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	434797	2.00000	2.228	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.042)	91	904497			0.00- 30.00	208.03
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.043)	104	672178	2.00000	2.257	70.00- 130.00	100.00
19.912	19.912 (1.043)	78	392244			0.00- 30.00	58.35
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.058)	173	358390	2.00000	2.286	70.00- 130.00	100.00
20.201	20.201 (1.058)	171	196998			0.00- 30.00	54.97
76 Cumene					CAS #: 98-82-8		
20.298	20.298 (1.063)	105	1238608	2.00000	2.222	70.00- 130.00	100.00
20.298	20.298 (1.063)	120	350941			0.00- 30.00	28.33
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.086)	83	714891	2.00000	2.173	70.00- 130.00	100.00
20.729	20.729 (1.086)	85	472560			0.00- 30.00	66.10
80 Propylbenzene					CAS #: 103-65-1		
20.781	20.781 (1.088)	91	1634011	2.00000	2.251	70.00- 130.00	100.00
20.781	20.781 (1.088)	120	392934			0.00- 30.00	24.05
82 4-Ethyltoluene					CAS #: 622-96-8		
20.910	20.910 (1.095)	105	1557765	2.00000	2.222	70.00- 130.00	100.00
20.910	20.910 (1.095)	120	518399			0.00- 30.00	33.28
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.099)	105	1206791	2.00000	2.243	70.00- 130.00	100.00
20.987	20.987 (1.099)	120	605854			0.00- 30.00	50.20
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.122)	105	1258621	2.00000	2.313	70.00- 130.00	100.00
21.425	21.425 (1.122)	120	592342			0.00- 30.00	47.06
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.142)	146	822100	2.00000	2.270	70.00- 130.00	100.00
21.812	21.812 (1.142)	148	531207			0.00- 30.00	64.62
21.812	21.812 (1.142)	111	380096			0.00- 30.00	46.23
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.148)	146	831118	2.00000	2.257	70.00- 130.00	100.00
21.915	21.915 (1.148)	148	536282			0.00- 30.00	64.53
21.915	21.915 (1.148)	111	378848			0.00- 30.00	45.58
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.155)	91	993896	2.00000	2.295	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.070	22.070 (1.156)	126	207742			0.00- 30.00	20.90
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.354	22.354 (1.171)	146	777348	2.00000	2.270	70.00- 130.00	100.00
22.354	22.354 (1.171)	148	505423			35.51- 95.51	65.02
22.354	22.354 (1.171)	111	370956			17.92- 77.92	47.72
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.263)	180	515873	2.00000	2.292	70.00- 130.00	100.00
24.107	24.107 (1.263)	182	488923			0.00- 30.00	94.78
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.267)	225	460302	2.00000	2.349	70.00- 130.00	100.00
24.184	24.184 (1.267)	223	303141			0.00- 30.00	65.86
99 Naphthalene					CAS #: 91-20-3		
24.417	24.417 (1.279)	128	911944	2.00000	2.282	70.00- 130.00	100.00
24.417	24.417 (1.279)	127	131388			0.00- 30.00	14.41
179 Butane					CAS #: 106-97-8		
6.737	6.737 (0.495)	58	45274	2.00000	2.215	70.00- 130.00	100.00
6.754	6.754 (0.496)	43	279542			0.00- 30.00	617.44
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	146370	2.00000	2.241	70.00- 130.00	100.00
8.736	8.736 (0.642)	43	193680			0.00- 30.00	132.32
8.736	8.736 (0.642)	42	161302			0.00- 30.00	110.20
167 Methylcyclohexane					CAS #: 108-87-2		
15.409	15.409 (1.133)	83	279665	2.00000	2.098	70.00- 130.00	100.00
15.409	15.409 (1.133)	98	140563			0.00- 30.00	50.26
15.409	15.409 (1.133)	55	277300			0.00- 30.00	99.15
26 tert-butyl alcohol					CAS #: 75-65-0		
11.718	11.718 (0.861)	59	330657	2.00000	2.118	70.00- 130.00	100.00
11.718	11.718 (0.861)	41	82486			0.00- 30.00	24.95
11.718	11.718 (0.861)	57	41499			0.00- 30.00	12.55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042217.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ACT
Method File: /chem/msdz.i/22Apr2008.b/t14l0422a.m
Misc Info: 2.0ppbv -> 2.0ppbv

Calibration Date: 22-APR-2008
Calibration Time: 21:50
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	407140	244284	569996	384475	-5.57
52 1,4-Difluorobenze	1616499	969899	2263099	1513184	-6.39
68 Chlorobenzene-d5	2038617	1223170	2854064	1831918	-10.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.61	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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/msdz.i/22Apr2008.b/z042217.d

Date : 22-APR-2008 20:39

Client ID: Level 7

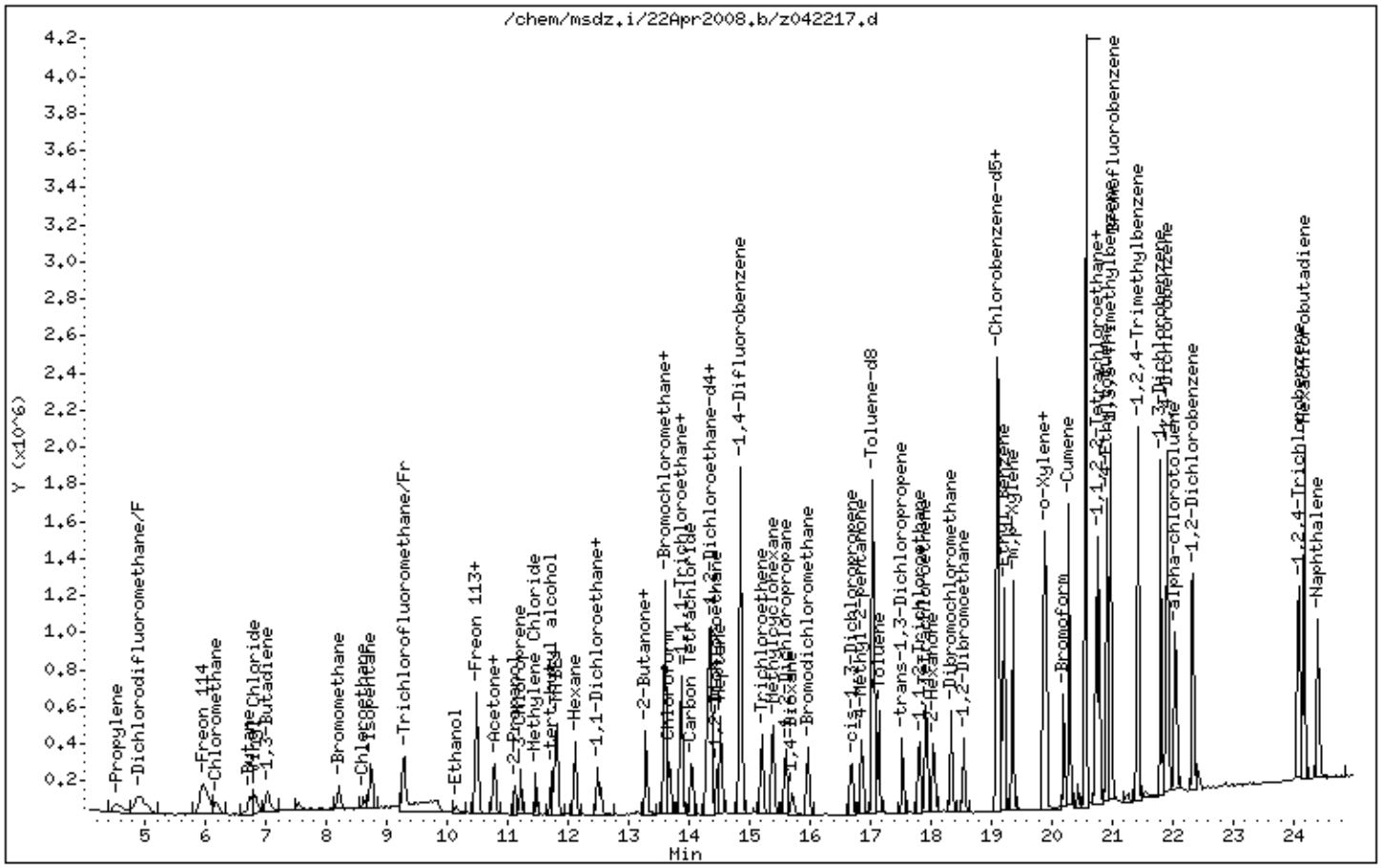
Instrument: msdz.i

Sample Info: 500mL #1541-111

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042218.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 22-APR-2008 21:12
Operator : ACT Inst ID: msdz.i
Smp Info : 50mL #1541-91
Misc Info : 50ppbv -> 5.0ppbv
Comment :
Method : /chem/msdz.i/22Apr2008.b/t14l0422a.m
Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD
Cal Date : 22-APR-2008 21:12 Cal File: z042218.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	363365	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	282258			0.00- 30.00		77.68
13.605	13.605 (1.000)	49	600732			0.00- 30.00		165.32
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1436533	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	314702			0.00- 30.00		21.91
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	1820012	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	1216653			0.00- 30.00		66.85
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	796539	10.0000	10.155	70.00- 130.00		100.00
14.365	14.365 (1.056)	67	396674			0.00- 30.00		49.80
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1497167	10.0000	9.968	70.00- 130.00		100.00
17.038	17.038 (1.147)	70	246182			0.00- 30.00		16.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1020488			37.57- 97.57	68.16
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.078)	174	1368142	10.0000	9.988	70.00- 130.00	100.00
20.574	20.574 (1.078)	95	1884918			103.94- 163.94	137.77
20.574	20.574 (1.078)	176	1314419			66.39- 126.39	96.07
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	411904	5.00000	5.698	70.00- 130.00	100.00
4.521	4.521 (0.332)	42	274427			0.00- 30.00	66.62
4.545	4.545 (0.334)	39	338397			0.00- 30.00	82.15
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	1497126	5.00000	5.124	70.00- 130.00	100.00
4.931	4.931 (0.362)	87	524001			5.02- 65.02	35.00
4 Freon 114					CAS #: 76-14-2		
5.991	5.991 (0.440)	135	740013	5.00000	5.056	70.00- 130.00	100.00
5.991	5.991 (0.440)	137	254815			0.00- 30.00	34.43
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	451673	5.00000	5.097	70.00- 130.00	100.00
6.184	6.184 (0.455)	52	157681			0.00- 30.00	34.91
6 Vinyl Chloride					CAS #: 75-01-4		
6.841	6.841 (0.503)	62	452127	5.00000	5.104	70.00- 130.00	100.00
6.841	6.841 (0.503)	64	157787			4.56- 64.56	34.90
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.517)	54	330914	5.00000	5.242	70.00- 130.00	100.00
7.032	7.032 (0.517)	39	343117			0.00- 30.00	103.69
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.604)	94	322505	5.00000	4.645	70.00- 130.00	100.00
8.218	8.218 (0.604)	96	293187			62.26- 122.26	90.91
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	190377	5.00000	4.785	70.00- 130.00	100.00
8.612	8.612 (0.633)	49	65409			0.00- 30.00	34.36
8.612	8.612 (0.633)	66	65837			0.00- 30.00	34.58
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	893678	5.00000	4.855	70.00- 130.00	100.00
9.296	9.296 (0.683)	103	592712			36.19- 96.19	66.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.146	10.146 (0.746)	45	114045	5.00000	4.757	70.00- 130.00	100.00
10.146	10.146 (0.746)	43	34981			0.00- 30.00	30.67
10.146	10.146 (0.746)	46	48072			0.00- 30.00	42.15
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	503831	5.00000	5.017	70.00- 130.00	100.00
10.498	10.498 (0.772)	153	324036			35.16- 95.16	64.31
10.498	10.498 (0.772)	101	618577			0.00- 30.00	122.77
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.772)	98	186635	5.00000	4.654	70.00- 130.00	100.00
10.498	10.498 (0.772)	61	601018			0.00- 30.00	322.03
10.498	10.498 (0.772)	96	292497			0.00- 30.00	156.72
20 Acetone					CAS #: 67-64-1		
10.747	10.747 (0.790)	58	170777	5.00000	4.864	70.00- 130.00	100.00
10.747	10.747 (0.790)	43	596833			0.00- 30.00	349.48
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	150464	5.00000	5.264	70.00- 130.00	100.00
11.223	11.223 (0.825)	41	442551			0.00- 30.00	294.12
21 2-Propanol					CAS #: 67-63-0		
11.099	11.099 (0.816)	45	593226	5.00000	4.976	70.00- 130.00	100.00
11.099	11.099 (0.816)	43	143327			0.00- 30.00	24.16
11.099	11.099 (0.816)	59	28009			0.00- 30.00	4.72
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	825279	5.00000	5.083	70.00- 130.00	100.00
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	252985	5.00000	4.603	70.00- 130.00	100.00
11.470	11.470 (0.843)	49	381822			0.00- 30.00	150.93
11.470	11.470 (0.843)	51	125384			0.00- 30.00	49.56
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	947575	5.00000	5.446	70.00- 130.00	100.00
11.800	11.800 (0.867)	57	243291			0.00- 30.00	25.68
11.800	11.800 (0.867)	41	271608			0.00- 30.00	28.66
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	211551	5.00000	4.908	70.00- 130.00	100.00
11.827	11.827 (0.869)	61	541561			0.00- 30.00	256.00
11.827	11.827 (0.869)	96	311437			0.00- 30.00	147.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	526266	5.00000	5.088	70.00- 130.00	100.00
12.129	12.129 (0.892)	43	340764			0.00- 30.00	64.75
12.129	12.129 (0.892)	86	91869			0.00- 30.00	17.46
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	615218	5.00000	5.101	70.00- 130.00	100.00
12.486	12.486 (0.918)	65	202518			0.00- 30.00	32.92
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	660792	5.00000	5.343	70.00- 130.00	100.00
12.541	12.541 (0.922)	42	80564			0.00- 30.00	12.19
12.541	12.541 (0.922)	86	65975			0.00- 30.00	9.98
37 2-Butanone					CAS #: 78-93-3		
13.284	13.284 (0.976)	72	171444	5.00000	5.282	70.00- 130.00	100.00
13.284	13.284 (0.976)	43	674201			0.00- 30.00	393.25
13.284	13.284 (0.976)	57	64660			0.00- 30.00	37.71
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	203681	5.00000	4.838	70.00- 130.00	100.00
13.284	13.284 (0.976)	61	513660			0.00- 30.00	252.19
13.284	13.284 (0.976)	96	313439			124.79- 184.79	153.89
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	396956	5.00000	5.108	70.00- 130.00	100.00
13.605	13.605 (1.000)	71	162909			0.00- 30.00	41.04
13.605	13.605 (1.000)	72	171611			0.00- 30.00	43.23
40 Chloroform					CAS #: 67-66-3		
13.666	13.666 (1.005)	83	713665	5.00000	4.862	70.00- 130.00	100.00
13.666	13.666 (1.005)	85	480793			0.00- 30.00	67.37
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	847157	5.00000	5.051	70.00- 130.00	100.00
13.882	13.882 (1.020)	99	558332			0.00- 30.00	65.91
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	465332	5.00000	4.918	70.00- 130.00	100.00
13.882	13.882 (1.020)	56	602118			0.00- 30.00	129.40
13.882	13.882 (1.020)	41	374636			0.00- 30.00	80.51
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.036 (1.032)	119	571004	5.00000	4.748	70.00- 130.00	100.00
14.036	14.036 (1.032)	117	593605			0.00- 30.00	103.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	574388	5.00000	4.980	70.00- 130.00	100.00
14.310	14.310 (1.052)	57	1645817			0.00- 30.00	286.53
14.310	14.310 (1.052)	41	567017			0.00- 30.00	98.72
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	958121	5.00000	4.720	70.00- 130.00	100.00
14.338	14.338 (0.965)	77	258051			0.00- 30.00	26.93
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.448 (0.972)	62	662431	5.00000	5.056	70.00- 130.00	100.00
14.448	14.448 (0.972)	64	228873			0.00- 30.00	34.55
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	378217	5.00000	5.009	70.00- 130.00	100.00
14.530	14.530 (0.978)	100	120544			0.00- 30.00	31.87
14.530	14.530 (0.978)	43	669280			0.00- 30.00	176.96
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	414177	5.00000	4.722	70.00- 130.00	100.00
15.216	15.216 (1.024)	95	492021			0.00- 30.00	118.79
15.216	15.216 (1.024)	97	321789			0.00- 30.00	77.69
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.600	15.600 (1.050)	63	423692	5.00000	5.046	70.00- 130.00	100.00
15.600	15.600 (1.050)	62	313801			0.00- 30.00	74.06
15.600	15.600 (1.050)	41	338840			47.90- 107.90	79.97
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	284496	5.00000	5.156	70.00- 130.00	100.00
15.710	15.710 (1.057)	58	231597			0.00- 30.00	81.41
15.710	15.710 (1.057)	57	92655			0.00- 30.00	32.57
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	799748	5.00000	4.962	70.00- 130.00	100.00
15.985	15.985 (1.076)	85	526938			0.00- 30.00	65.89
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.680	16.680 (1.123)	75	595893	5.00000	5.141	70.00- 130.00	100.00
16.680	16.680 (1.123)	77	208328			0.00- 30.00	34.96
16.680	16.680 (1.123)	39	425893			37.73- 97.73	71.47
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	896410	5.00000	5.134	70.00- 130.00	100.00
16.859	16.859 (1.135)	58	365526			0.00- 30.00	40.78
16.859	16.859 (1.135)	85	162918			0.00- 30.00	18.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	1178671	5.00000	4.925	70.00- 130.00	100.00
17.150	17.150 (1.154)	92	728124			0.00- 30.00	61.77
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.918)	75	703867	5.00000	4.972	70.00- 130.00	100.00
17.531	17.531 (0.918)	77	239537			0.00- 30.00	34.03
17.531	17.531 (0.918)	39	434646			29.55- 89.55	61.75
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	475603	5.00000	4.995	70.00- 130.00	100.00
17.818	17.818 (0.933)	99	309823			0.00- 30.00	65.14
17.818	17.818 (0.933)	83	403557			56.32- 116.32	84.85
63 Tetrachloroethene					CAS #: 127-18-4		
17.906	17.906 (0.938)	166	632380	5.00000	5.021	70.00- 130.00	100.00
17.906	17.906 (0.938)	129	492540			0.00- 30.00	77.89
17.906	17.906 (0.938)	131	475986			43.64- 103.64	75.27
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.051 (0.945)	58	617180	5.00000	5.249	70.00- 130.00	100.00
18.051	18.051 (0.945)	43	1077658			0.00- 30.00	174.61
18.051	18.051 (0.945)	100	127080			0.00- 30.00	20.59
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	767374	5.00000	5.060	70.00- 130.00	100.00
18.343	18.343 (0.961)	127	613010			0.00- 30.00	79.88
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	836368	5.00000	5.111	70.00- 130.00	100.00
18.547	18.547 (0.971)	109	765685			0.00- 30.00	91.55
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.003)	112	1336154	5.00000	4.969	70.00- 130.00	100.00
19.141	19.141 (1.003)	114	464399			0.00- 30.00	34.76
19.141	19.141 (1.003)	77	1001974			43.25- 103.25	74.99
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.214 (1.006)	106	771317	5.00000	5.060	70.00- 130.00	100.00
19.214	19.214 (1.006)	91	2349576			0.00- 30.00	304.62
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	1001713	5.00000	5.190	70.00- 130.00	100.00
19.358	19.358 (1.014)	91	2004763			0.00- 30.00	200.13
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	990920	5.00000	5.112	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.042)	91	2090393			0.00- 30.00	210.95
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.043)	104	1601063	5.00000	5.412	70.00- 130.00	100.00
19.912	19.912 (1.043)	78	934866			0.00- 30.00	58.39
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.058)	173	805489	5.00000	5.172	70.00- 130.00	100.00
20.201	20.201 (1.058)	171	432234			0.00- 30.00	53.66
76 Cumene					CAS #: 98-82-8		
20.297	20.297 (1.063)	105	2860215	5.00000	5.165	70.00- 130.00	100.00
20.297	20.297 (1.063)	120	780103			0.00- 30.00	27.27
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.086)	83	1686522	5.00000	5.159	70.00- 130.00	100.00
20.729	20.729 (1.086)	85	1100108			0.00- 30.00	65.23
80 Propylbenzene					CAS #: 103-65-1		
20.781	20.781 (1.088)	91	3796050	5.00000	5.264	70.00- 130.00	100.00
20.781	20.781 (1.088)	120	908158			0.00- 30.00	23.92
82 4-Ethyltoluene					CAS #: 622-96-8		
20.910	20.910 (1.095)	105	3594302	5.00000	5.161	70.00- 130.00	100.00
20.910	20.910 (1.095)	120	1204928			0.00- 30.00	33.52
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.099)	105	2714422	5.00000	5.078	70.00- 130.00	100.00
20.987	20.987 (1.099)	120	1343251			0.00- 30.00	49.49
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.122)	105	2832592	5.00000	5.240	70.00- 130.00	100.00
21.425	21.425 (1.122)	120	1302640			0.00- 30.00	45.99
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.142)	146	1842998	5.00000	5.122	70.00- 130.00	100.00
21.812	21.812 (1.142)	148	1188704			0.00- 30.00	64.50
21.812	21.812 (1.142)	111	850715			0.00- 30.00	46.16
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.148)	146	1851482	5.00000	5.062	70.00- 130.00	100.00
21.915	21.915 (1.148)	148	1229911			0.00- 30.00	66.43
21.915	21.915 (1.148)	111	829926			0.00- 30.00	44.82
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.155)	91	2264780	5.00000	5.263	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.044	22.044 (1.155)	126	468718			0.00- 30.00	20.70
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.354	22.354 (1.171)	146	1712894	5.00000	5.035	70.00- 130.00	100.00
22.354	22.354 (1.171)	148	1104202			35.51- 95.51	64.46
22.354	22.354 (1.171)	111	818471			17.92- 77.92	47.78
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.263)	180	960204	5.00000	4.293	70.00- 130.00	100.00
24.107	24.107 (1.263)	182	918288			0.00- 30.00	95.63
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.267)	225	912014	5.00000	4.684	70.00- 130.00	100.00
24.184	24.184 (1.267)	223	602018			0.00- 30.00	66.01
99 Naphthalene					CAS #: 91-20-3		
24.416	24.416 (1.279)	128	1713502	5.00000	4.316	70.00- 130.00	100.00
24.416	24.416 (1.279)	127	251587			0.00- 30.00	14.68
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.496)	58	102153	5.00000	5.287	70.00- 130.00	100.00
6.737	6.737 (0.495)	43	631373			0.00- 30.00	618.07
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	343860	5.00000	5.571	70.00- 130.00	100.00
8.736	8.736 (0.642)	43	435231			0.00- 30.00	126.57
8.736	8.736 (0.642)	42	377292			0.00- 30.00	109.72
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.408 (1.133)	83	646180	5.00000	5.129	70.00- 130.00	100.00
15.408	15.408 (1.133)	98	317467			0.00- 30.00	49.13
15.408	15.408 (1.133)	55	636384			0.00- 30.00	98.48
26 tert-butyl alcohol					CAS #: 75-65-0		
11.717	11.717 (0.861)	59	741915	5.00000	5.028	70.00- 130.00	100.00
11.717	11.717 (0.861)	41	180374			0.00- 30.00	24.31
11.717	11.717 (0.861)	57	99518			0.00- 30.00	13.41

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042218.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ACT
Method File: /chem/msdz.i/22Apr2008.b/t14l0422a.m
Misc Info: 50ppbv -> 5.0ppbv

Calibration Date: 22-APR-2008
Calibration Time: 21:50
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	407140	244284	569996	363365	-10.75
52 1,4-Difluorobenze	1616499	969899	2263099	1436533	-11.13
68 Chlorobenzene-d5	2038617	1223170	2854064	1820012	-10.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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/msdz.i/22Apr2008.b/z042218.d

Date : 22-APR-2008 21:12

Client ID: Level 8

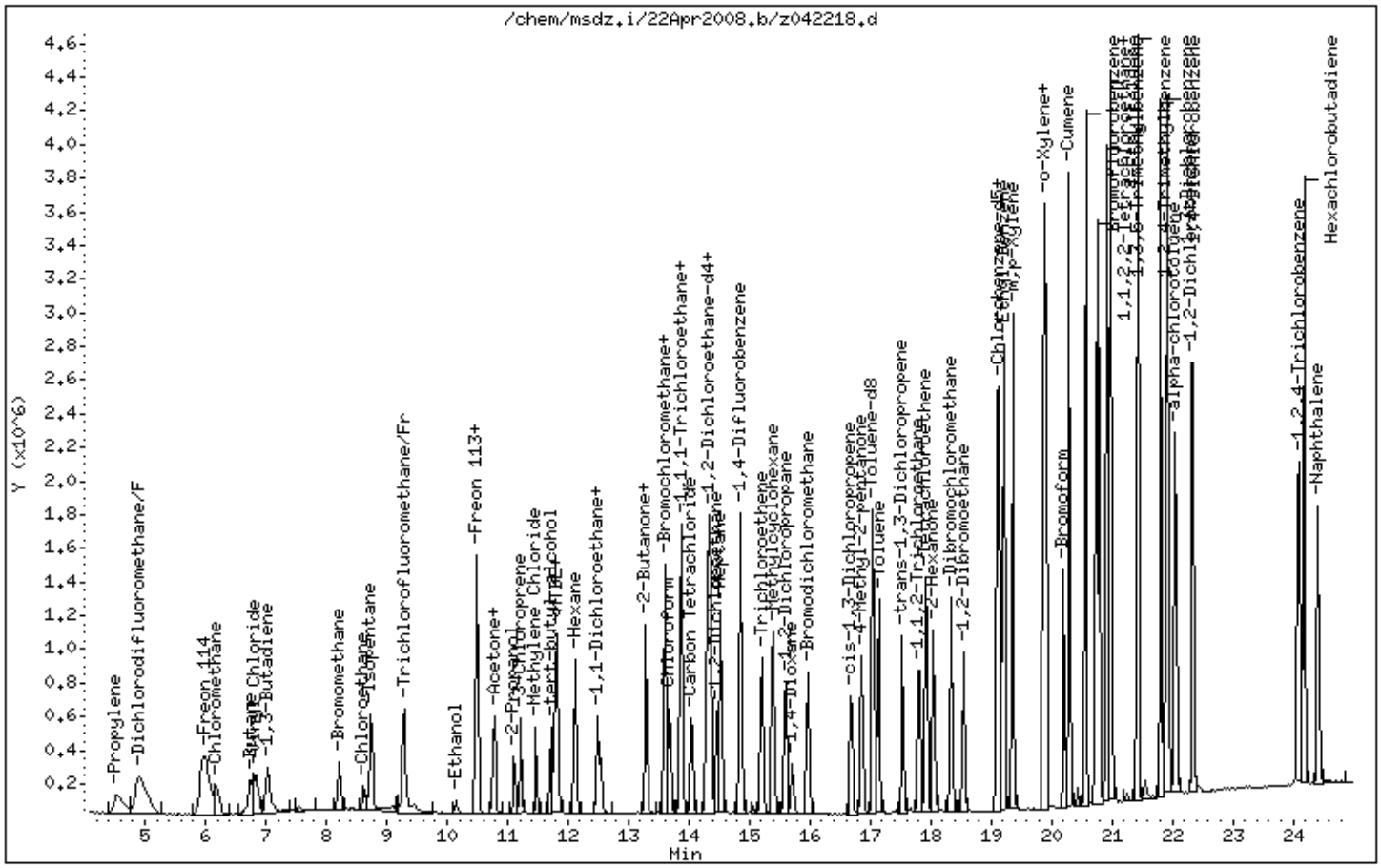
Instrument: msdz.i

Sample Info: 50mL #1541-91

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042906.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 29-APR-2008 13:01
Operator : sjr Inst ID: msdz.i
Smp Info : 100mL #1541-115
Misc Info : 50ppbv -> 10ppbv
Comment :
Method : /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD
Cal Date : 29-APR-2008 13:01 Cal File: z042906.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4b.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	327424	10.0000		80.00- 120.00		100.00
13.605	13.605 (1.000)	128	253798			0.00- 30.00		77.51
13.605	13.605 (1.000)	49	504912			0.00- 30.00		154.21
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1205511	10.0000		80.00- 120.00		100.00
14.859	14.859 (1.000)	88	252469			0.00- 30.00		20.94
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1420624	10.0000		80.00- 120.00		100.00
19.093	19.093 (1.000)	82	928822			0.00- 30.00		65.38
12 Vinyl Bromide						CAS #: 593-60-2		
9.130	9.130 (0.671)	106	403776	10.0000	9.046	80.00- 120.00		100.00
9.130	9.130 (0.671)	108	386070			0.00- 30.00		95.61
24 Acetonitrile						CAS #: 75-05-8		
11.333	11.333 (0.833)	40	194097	10.0000	5.639	80.00- 120.00		100.00
11.333	11.333 (0.833)	41	342287			0.00- 30.00		176.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
24 Acetonitrile (continued)							
11.388	11.388 (0.837)	39	434550			0.00- 30.00	223.88
29 Acrylonitrile					CAS #: 107-13-1		
11.937	11.937 (0.877)	53	328485	10.0000	9.564	80.00- 120.00	100.00
11.937	11.937 (0.877)	52	342996			0.00- 30.00	104.42
34 Chlorprene					CAS #: 126-99-8		
12.568	12.568 (0.924)	53	667046	10.0000	10.645	80.00- 120.00	100.00
12.568	12.568 (0.924)	88	270837			0.00- 30.00	40.60

Report Date: 09-May-2008 11:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042906.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Calibration Date: 29-APR-2008
Calibration Time: 13:01
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR
Method File: /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Misc Info: 50ppbv -> 10ppbv

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	327424	196454	458394	327424	0.00
52 1,4-Difluorobenze	1205511	723307	1687715	1205511	0.00
68 Chlorobenzene-d5	1420624	852374	1988874	1420624	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/29Apr2008.b/z042906.d

Date : 29-APR-2008 13:01

Client ID: Level 9

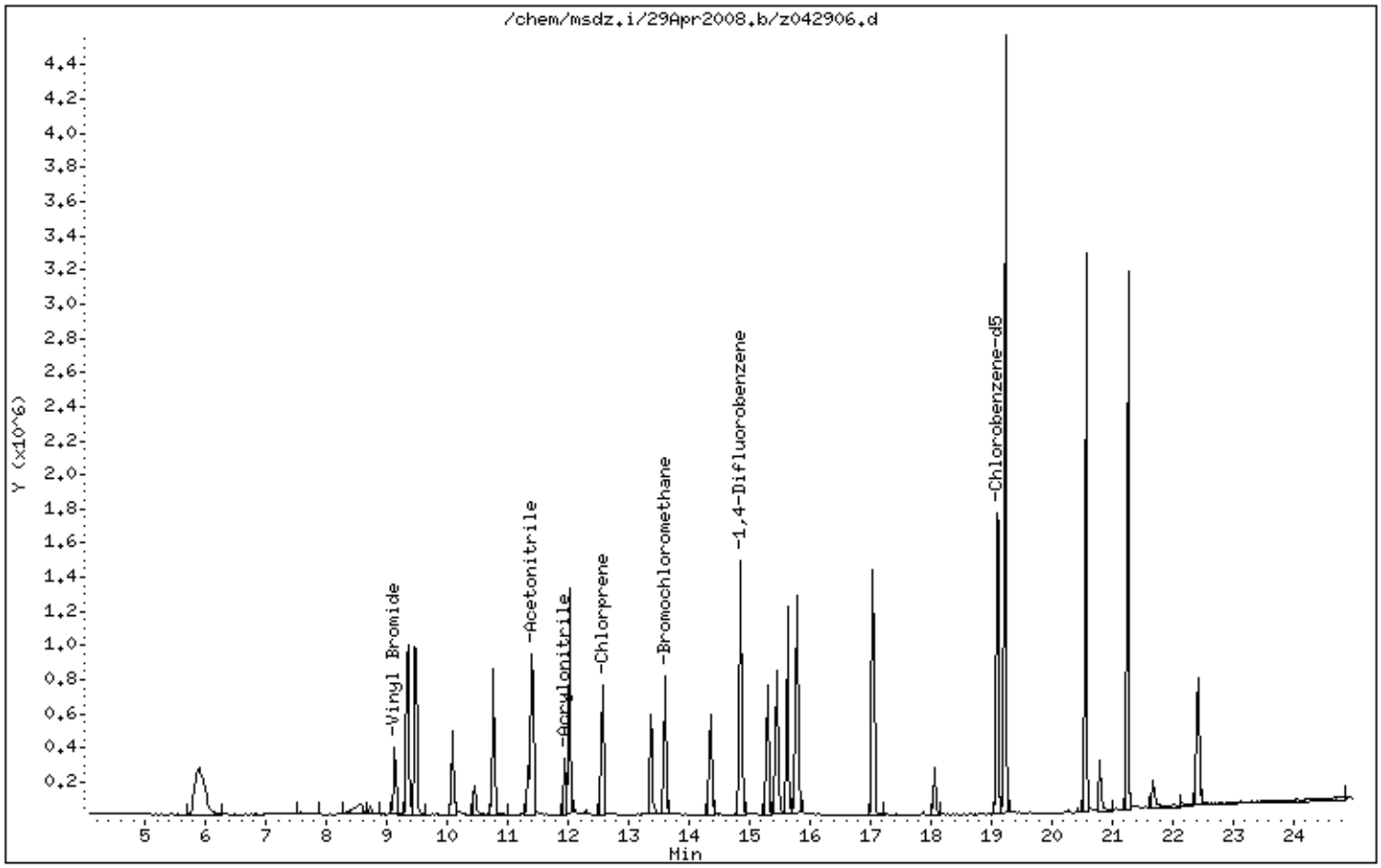
Instrument: msdz.i

Sample Info: 100mL #1541-115

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042219.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 22-APR-2008 21:50
Operator : ACT Inst ID: msdz.i
Smp Info : 100mL #1541-91
Misc Info : 50ppbv -> 10ppbv
Comment :
Method : /chem/msdz.i/22Apr2008.b/t14l0422a.m
Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD
Cal Date : 22-APR-2008 21:50 Cal File: z042219.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	407140	10.0000		80.00- 120.00		100.00
13.605	13.605 (1.000)	128	322640			0.00- 30.00		79.25
13.605	13.605 (1.000)	49	651438			0.00- 30.00		160.00
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1616499	10.0000		80.00- 120.00		100.00
14.859	14.859 (1.000)	88	352314			0.00- 30.00		21.79
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	2038617	10.0000		80.00- 120.00		100.00
19.093	19.093 (1.000)	82	1320151			0.00- 30.00		64.76
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	864149	10.0000	9.832	80.00- 120.00		100.00
14.365	14.365 (1.056)	67	474889			0.00- 30.00		54.95
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1674736	10.0000	9.909	80.00- 120.00		100.00
17.038	17.038 (1.147)	70	263459			0.00- 30.00		15.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1131602			37.57- 97.57	67.57
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.078)	174	1596540	10.0000	10.406	80.00- 120.00	100.00
20.574	20.574 (1.078)	95	2138439			103.94- 163.94	133.94
20.574	20.574 (1.078)	176	1538937			66.39- 126.39	96.39
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	807994	10.0000	9.975	80.00- 120.00	100.00
4.521	4.521 (0.332)	42	538762			0.00- 30.00	66.68
4.521	4.521 (0.332)	39	638752			0.00- 30.00	79.05
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	2975085	10.0000	9.088	80.00- 120.00	100.00
4.907	4.907 (0.361)	87	1041938			5.02- 65.02	35.02
4 Freon 114					CAS #: 76-14-2		
5.991	5.991 (0.440)	135	1477503	10.0000	9.009	80.00- 120.00	100.00
5.967	5.967 (0.439)	137	520900			0.00- 30.00	35.26
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	917585	10.0000	9.242	80.00- 120.00	100.00
6.184	6.184 (0.455)	52	309216			0.00- 30.00	33.70
6 Vinyl Chloride					CAS #: 75-01-4		
6.841	6.841 (0.503)	62	912892	10.0000	9.198	80.00- 120.00	100.00
6.841	6.841 (0.503)	64	315536			4.56- 64.56	34.56
7 1,3-Butadiene					CAS #: 106-99-0		
7.014	7.014 (0.516)	54	641703	10.0000	9.073	80.00- 120.00	100.00
7.032	7.032 (0.517)	39	652651			0.00- 30.00	101.71
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.604)	94	675286	10.0000	8.680	80.00- 120.00	100.00
8.218	8.218 (0.604)	96	622987			62.26- 122.26	92.26
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	393053	10.0000	8.817	80.00- 120.00	100.00
8.612	8.612 (0.633)	49	129638			0.00- 30.00	32.98
8.612	8.612 (0.633)	66	130621			0.00- 30.00	33.23
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	1802262	10.0000	8.738	80.00- 120.00	100.00
9.296	9.296 (0.683)	103	1192949			36.19- 96.19	66.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.146	10.146 (0.746)	45	232615	10.0000	8.659	80.00- 120.00	100.00
10.146	10.146 (0.746)	43	66153			0.00- 30.00	28.44
10.146	10.146 (0.746)	46	100916			0.00- 30.00	43.38
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	995971	10.0000	8.851	80.00- 120.00	100.00
10.498	10.498 (0.772)	153	649019			35.16- 95.16	65.16
10.498	10.498 (0.772)	101	1204176			0.00- 30.00	120.90
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.772)	98	387861	10.0000	8.632	80.00- 120.00	100.00
10.477	10.477 (0.770)	61	1205337			0.00- 30.00	310.77
10.477	10.477 (0.770)	96	587250			0.00- 30.00	151.41
20 Acetone					CAS #: 67-64-1		
10.747	10.747 (0.790)	58	347064	10.0000	8.823	80.00- 120.00	100.00
10.747	10.747 (0.790)	43	1220244			0.00- 30.00	351.59
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	322630	10.0000	10.074	80.00- 120.00	100.00
11.223	11.223 (0.825)	41	872519			0.00- 30.00	270.44
21 2-Propanol					CAS #: 67-63-0		
11.099	11.099 (0.816)	45	1191698	10.0000	8.922	80.00- 120.00	100.00
11.099	11.099 (0.816)	43	333630			0.00- 30.00	28.00
11.120	11.120 (0.817)	59	57840			0.00- 30.00	4.85
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	1688636	10.0000	9.282	80.00- 120.00	100.00
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	512491	10.0000	8.323	80.00- 120.00	100.00
11.470	11.470 (0.843)	49	771828			0.00- 30.00	150.60
11.470	11.470 (0.843)	51	252224			0.00- 30.00	49.22
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	1910686	10.0000	9.801	80.00- 120.00	100.00
11.800	11.800 (0.867)	57	522320			0.00- 30.00	27.34
11.800	11.800 (0.867)	41	579664			0.00- 30.00	30.34
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	434671	10.0000	9.000	80.00- 120.00	100.00
11.827	11.827 (0.869)	61	1133110			0.00- 30.00	260.68
11.827	11.827 (0.869)	96	659614			0.00- 30.00	151.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	1081415	10.0000	9.330	80.00- 120.00	100.00
12.129	12.129 (0.892)	43	686102			0.00- 30.00	63.44
12.129	12.129 (0.892)	86	192230			0.00- 30.00	17.78
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	1253935	10.0000	9.279	80.00- 120.00	100.00
12.486	12.486 (0.918)	65	429487			0.00- 30.00	34.25
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	1327407	10.0000	9.580	80.00- 120.00	100.00
12.541	12.541 (0.922)	42	163616			0.00- 30.00	12.33
12.541	12.541 (0.922)	86	139325			0.00- 30.00	10.50
37 2-Butanone					CAS #: 78-93-3		
13.284	13.284 (0.976)	72	355861	10.0000	9.786	80.00- 120.00	100.00
13.284	13.284 (0.976)	43	1426512			0.00- 30.00	400.86
13.284	13.284 (0.976)	57	143981			0.00- 30.00	40.46
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	436504	10.0000	9.253	80.00- 120.00	100.00
13.284	13.284 (0.976)	61	1054168			0.00- 30.00	241.50
13.284	13.284 (0.976)	96	675684			124.79- 184.79	154.79
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	809297	10.0000	9.295	80.00- 120.00	100.00
13.605	13.605 (1.000)	71	344445			0.00- 30.00	42.56
13.605	13.605 (1.000)	72	356593			0.00- 30.00	44.06
40 Chloroform					CAS #: 67-66-3		
13.667	13.667 (1.005)	83	1527478	10.0000	9.288	80.00- 120.00	100.00
13.667	13.667 (1.005)	85	1011699			0.00- 30.00	66.23
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	1802556	10.0000	9.591	80.00- 120.00	100.00
13.882	13.882 (1.020)	99	1184427			0.00- 30.00	65.71
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	985102	10.0000	9.292	80.00- 120.00	100.00
13.882	13.882 (1.020)	56	1227452			0.00- 30.00	124.60
13.882	13.882 (1.020)	41	757043			0.00- 30.00	76.85
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.034)	119	1253445	10.0000	9.302	80.00- 120.00	100.00
14.036	14.036 (1.032)	117	1307915			0.00- 30.00	104.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	1207158	10.0000	9.341	80.00- 120.00	100.00
14.310	14.310 (1.052)	57	3474946			0.00- 30.00	287.86
14.310	14.310 (1.052)	41	1168244			0.00- 30.00	96.78
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	1996032	10.0000	8.738	80.00- 120.00	100.00
14.338	14.338 (0.965)	77	530730			0.00- 30.00	26.59
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.448 (0.972)	62	1386592	10.0000	9.404	80.00- 120.00	100.00
14.448	14.448 (0.972)	64	492333			0.00- 30.00	35.51
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	785777	10.0000	9.248	80.00- 120.00	100.00
14.530	14.530 (0.978)	100	266356			0.00- 30.00	33.90
14.530	14.530 (0.978)	43	1382417			0.00- 30.00	175.93
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	919446	10.0000	9.315	80.00- 120.00	100.00
15.216	15.216 (1.024)	95	1040879			0.00- 30.00	113.21
15.216	15.216 (1.024)	97	694144			0.00- 30.00	75.50
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.601	15.601 (1.050)	63	884318	10.0000	9.359	80.00- 120.00	100.00
15.601	15.601 (1.050)	62	632096			0.00- 30.00	71.48
15.601	15.601 (1.050)	41	688865			47.90- 107.90	77.90
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	601751	10.0000	9.692	80.00- 120.00	100.00
15.710	15.710 (1.057)	58	478087			0.00- 30.00	79.45
15.710	15.710 (1.057)	57	182668			0.00- 30.00	30.36
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	1731650	10.0000	9.548	80.00- 120.00	100.00
15.985	15.985 (1.076)	85	1150478			0.00- 30.00	66.44
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.680	16.680 (1.123)	75	1302306	10.0000	9.984	80.00- 120.00	100.00
16.680	16.680 (1.123)	77	449109			0.00- 30.00	34.49
16.680	16.680 (1.123)	39	882075			37.73- 97.73	67.73
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	1938166	10.0000	9.865	80.00- 120.00	100.00
16.859	16.859 (1.135)	58	810383			0.00- 30.00	41.81
16.859	16.859 (1.135)	85	377633			0.00- 30.00	19.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	2455400	10.0000	9.118	80.00- 120.00	100.00
17.150	17.150 (1.154)	92	1548840			0.00- 30.00	63.08
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.918)	75	1508655	10.0000	9.513	80.00- 120.00	100.00
17.531	17.531 (0.918)	77	524983			0.00- 30.00	34.80
17.531	17.531 (0.918)	39	898449			29.55- 89.55	59.55
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	1013691	10.0000	9.505	80.00- 120.00	100.00
17.818	17.818 (0.933)	99	637904			0.00- 30.00	62.93
17.818	17.818 (0.933)	83	875029			56.32- 116.32	86.32
63 Tetrachloroethene					CAS #: 127-18-4		
17.935	17.935 (0.939)	166	1361460	10.0000	9.651	80.00- 120.00	100.00
17.906	17.906 (0.938)	129	1033279			0.00- 30.00	75.89
17.906	17.906 (0.938)	131	1002619			43.64- 103.64	73.64
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.051 (0.945)	58	1306517	10.0000	9.921	80.00- 120.00	100.00
18.051	18.051 (0.945)	43	2301280			0.00- 30.00	176.14
18.051	18.051 (0.945)	100	286366			0.00- 30.00	21.92
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	1708117	10.0000	10.056	80.00- 120.00	100.00
18.343	18.343 (0.961)	127	1353916			0.00- 30.00	79.26
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	1763110	10.0000	9.619	80.00- 120.00	100.00
18.547	18.547 (0.971)	109	1638667			0.00- 30.00	92.94
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.003)	112	2768195	10.0000	9.191	80.00- 120.00	100.00
19.141	19.141 (1.003)	114	978580			0.00- 30.00	35.35
19.141	19.141 (1.003)	77	2027790			43.25- 103.25	73.25
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.214 (1.006)	106	1619504	10.0000	9.484	80.00- 120.00	100.00
19.214	19.214 (1.006)	91	4935853			0.00- 30.00	304.78
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	2066593	10.0000	9.559	80.00- 120.00	100.00
19.358	19.358 (1.014)	91	4141088			0.00- 30.00	200.38
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	2127009	10.0000	9.796	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.042)	91	4455535			0.00- 30.00	209.47
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.043)	104	3365964	10.0000	10.157	80.00- 120.00	100.00
19.912	19.912 (1.043)	78	1996952			0.00- 30.00	59.33
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.058)	173	1840826	10.0000	10.553	80.00- 120.00	100.00
20.201	20.201 (1.058)	171	1015711			0.00- 30.00	55.18
76 Cumene					CAS #: 98-82-8		
20.298	20.298 (1.063)	105	6086031	10.0000	9.812	80.00- 120.00	100.00
20.298	20.298 (1.063)	120	1731082			0.00- 30.00	28.44
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.086)	83	3561747	10.0000	9.727	80.00- 120.00	100.00
20.729	20.729 (1.086)	85	2328704			0.00- 30.00	65.38
80 Propylbenzene					CAS #: 103-65-1		
20.781	20.781 (1.088)	91	8049233	10.0000	9.966	80.00- 120.00	100.00
20.781	20.781 (1.088)	120	1921045			0.00- 30.00	23.87
82 4-Ethyltoluene					CAS #: 622-96-8		
20.910	20.910 (1.095)	105	7954180	10.0000	10.196	80.00- 120.00	100.00
20.910	20.910 (1.095)	120	2622213			0.00- 30.00	32.97
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.099)	105	5901443	10.0000	9.857	80.00- 120.00	100.00
20.987	20.987 (1.099)	120	2950412			0.00- 30.00	49.99
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.122)	105	5994293	10.0000	9.900	80.00- 120.00	100.00
21.425	21.425 (1.122)	120	2798679			0.00- 30.00	46.69
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.142)	146	3984578	10.0000	9.886	80.00- 120.00	100.00
21.812	21.812 (1.142)	148	2580672			0.00- 30.00	64.77
21.812	21.812 (1.142)	111	1836965			0.00- 30.00	46.10
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.148)	146	4066281	10.0000	9.925	80.00- 120.00	100.00
21.915	21.915 (1.148)	148	2649137			0.00- 30.00	65.15
21.915	21.915 (1.148)	111	1777315			0.00- 30.00	43.71
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.155)	91	5150683	10.0000	10.686	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.044	22.044 (1.155)	126	1081261			0.00- 30.00	20.99
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.354	22.354 (1.171)	146	3682026	10.0000	9.664	80.00- 120.00	100.00
22.354	22.354 (1.171)	148	2412049			35.51- 95.51	65.51
22.328	22.328 (1.169)	111	1764576			17.92- 77.92	47.92
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.263)	180	2399656	10.0000	9.579	80.00- 120.00	100.00
24.107	24.107 (1.263)	182	2267845			0.00- 30.00	94.51
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.267)	225	2064768	10.0000	9.467	80.00- 120.00	100.00
24.184	24.184 (1.267)	223	1374170			0.00- 30.00	66.55
99 Naphthalene					CAS #: 91-20-3		
24.416	24.416 (1.279)	128	4350242	10.0000	9.784	80.00- 120.00	100.00
24.416	24.416 (1.279)	127	635178			0.00- 30.00	14.60
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.496)	58	198948	10.0000	9.190	80.00- 120.00	100.00
6.754	6.754 (0.496)	43	1207496			0.00- 30.00	606.94
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	650594	10.0000	9.407	80.00- 120.00	100.00
8.736	8.736 (0.642)	43	844589			0.00- 30.00	129.82
8.736	8.736 (0.642)	42	728428			0.00- 30.00	111.96
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.408 (1.133)	83	1390655	10.0000	9.852	80.00- 120.00	100.00
15.408	15.408 (1.133)	98	686902			0.00- 30.00	49.39
15.408	15.408 (1.133)	55	1339516			0.00- 30.00	96.32
26 tert-butyl alcohol					CAS #: 75-65-0		
11.717	11.717 (0.861)	59	1592106	10.0000	9.629	80.00- 120.00	100.00
11.717	11.717 (0.861)	41	390528			0.00- 30.00	24.53
11.717	11.717 (0.861)	57	202984			0.00- 30.00	12.75

Report Date: 25-Apr-2008 07:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042219.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ACT
Method File: /chem/msdz.i/22Apr2008.b/t14l0422a.m
Misc Info: 50ppbv -> 10ppbv

Calibration Date: 22-APR-2008
Calibration Time: 21:50
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	407140	244284	569996	407140	0.00
52 1,4-Difluorobenze	1616499	969899	2263099	1616499	0.00
68 Chlorobenzene-d5	2038617	1223170	2854064	2038617	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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/msdz.i/22Apr2008.b/z042219.d

Page 1

Date : 22-APR-2008 21:50

Client ID: Level 9

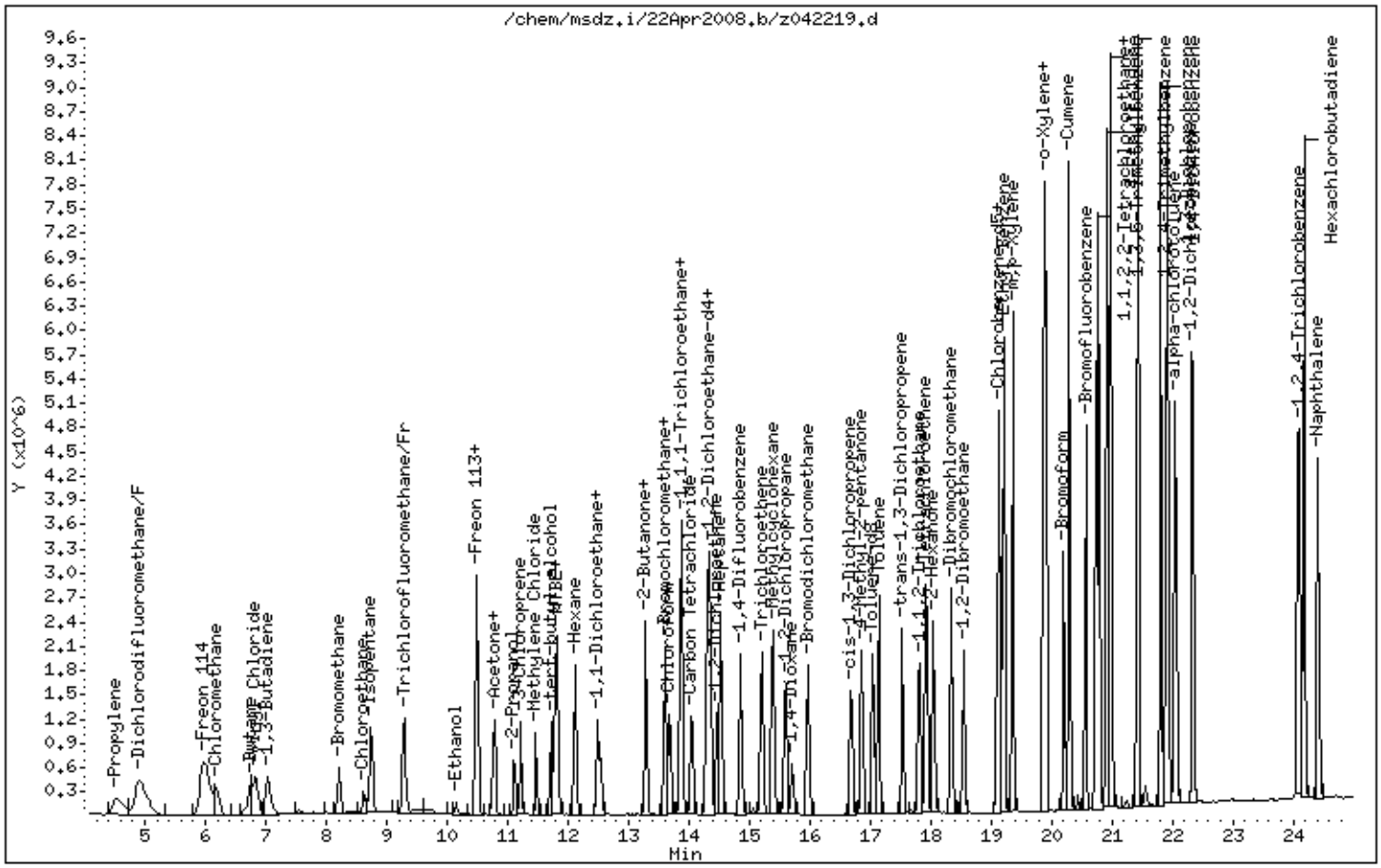
Instrument: msdz.i

Sample Info: 100mL #1541-91

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042907.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 29-APR-2008 14:26
Operator : sjr Inst ID: msdz.i
Smp Info : 200mL #1541-115
Misc Info : 50ppbv -> 20ppbv
Comment :
Method : /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD
Cal Date : 29-APR-2008 14:26 Cal File: z042907.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4b.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	356496	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	280279			0.00- 30.00		78.62
13.605	13.605 (1.000)	49	551119			0.00- 30.00		154.59
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1343512	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	283745			0.00- 30.00		21.12
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1403316	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	919353			0.00- 30.00		65.51
12 Vinyl Bromide						CAS #: 593-60-2		
9.130	9.130 (0.671)	106	847443	20.0000	18.015	70.00- 130.00		100.00
9.130	9.130 (0.671)	108	788899			0.00- 30.00		93.09
24 Acetonitrile						CAS #: 75-05-8		
11.333	11.333 (0.833)	40	437301	20.0000	13.026	70.00- 130.00		100.00
11.333	11.333 (0.833)	41	806517			0.00- 30.00		184.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
24 Acetonitrile (continued)							
11.388	11.388 (0.837)	39	893538			0.00- 30.00	204.33
29 Acrylonitrile					CAS #: 107-13-1		
11.937	11.937 (0.877)	53	760861	20.0000	20.258	70.00- 130.00	100.00
11.937	11.937 (0.877)	52	660061			0.00- 30.00	86.75
34 Chlorprene					CAS #: 126-99-8		
12.568	12.568 (0.924)	53	1448445	20.0000	20.909	70.00- 130.00	100.00
12.568	12.568 (0.924)	88	599414			0.00- 30.00	41.38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042907.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Misc Info: 50ppbv -> 20ppbv

Calibration Date: 29-APR-2008
Calibration Time: 13:01
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	327424	196454	458394	356496	8.88
52 1,4-Difluorobenze	1205511	723307	1687715	1343512	11.45
68 Chlorobenzene-d5	1420624	852374	1988874	1403316	-1.22

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/29Apr2008.b/z042907.d

Date : 29-APR-2008 14:26

Client ID: Level 10

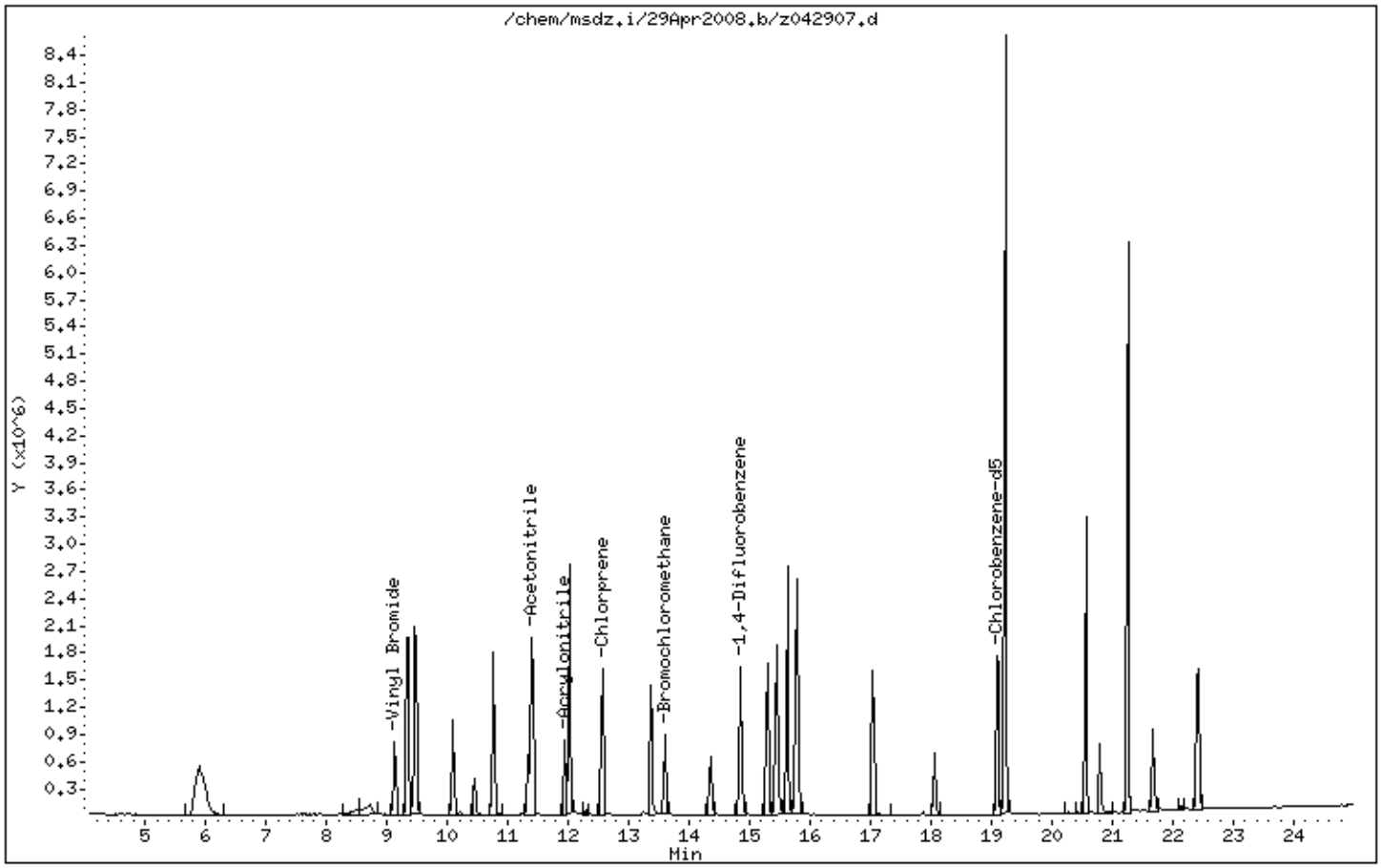
Instrument: msdz.i

Sample Info: 200mL #1541-115

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042220.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 22-APR-2008 22:30
Operator : ACT Inst ID: msdz.i
Smp Info : 200mL #1541-91
Misc Info : 50ppbv -> 20ppbv
Comment :
Method : /chem/msdz.i/22Apr2008.b/t14l0422a.m
Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD
Cal Date : 22-APR-2008 22:30 Cal File: z042220.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	====== ========	====	========	=======	=======		==========	=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	396921	10.0000			70.00- 130.00	100.00
13.605	13.605 (1.000)	128	307157				0.00- 30.00	77.38
13.605	13.605 (1.000)	49	646152				0.00- 30.00	162.79
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1582388	10.0000			70.00- 130.00	100.00
14.859	14.859 (1.000)	88	337112				0.00- 30.00	21.30
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	2016081	10.0000			70.00- 130.00	100.00
19.093	19.093 (1.000)	82	1343106				0.00- 30.00	66.62
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	882814	10.0000	10.303		70.00- 130.00	100.00
14.365	14.365 (1.056)	67	513183				0.00- 30.00	58.13
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1663476	10.0000	10.054		70.00- 130.00	100.00
17.038	17.038 (1.147)	70	269001				0.00- 30.00	16.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1120233			37.57- 97.57	67.34
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.078)	174	1524272	10.0000	10.046	70.00- 130.00	100.00
20.574	20.574 (1.078)	95	2046848			103.94- 163.94	134.28
20.574	20.574 (1.078)	176	1452220			66.39- 126.39	95.27
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	1508842	20.0000	19.107	70.00- 130.00	100.00
4.497	4.497 (0.331)	42	1013738			0.00- 30.00	67.19
4.521	4.521 (0.332)	39	1211560			0.00- 30.00	80.30
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	5414331	20.0000	16.965	70.00- 130.00	100.00
4.907	4.907 (0.361)	87	1897758			5.02- 65.02	35.05
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.439)	135	2709492	20.0000	16.947	70.00- 130.00	100.00
5.991	5.991 (0.440)	137	941995			0.00- 30.00	34.77
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	1636996	20.0000	16.912	70.00- 130.00	100.00
6.184	6.184 (0.455)	52	554122			0.00- 30.00	33.85
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.502)	62	1572389	20.0000	16.251	70.00- 130.00	100.00
6.823	6.823 (0.502)	64	544444			4.56- 64.56	34.63
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.517)	54	1179216	20.0000	17.101	70.00- 130.00	100.00
7.032	7.032 (0.517)	39	1185075			0.00- 30.00	100.50
9 Bromomethane					CAS #: 74-83-9		
8.198	8.198 (0.603)	94	1175675	20.0000	15.502	70.00- 130.00	100.00
8.198	8.198 (0.603)	96	1121442			62.26- 122.26	95.39
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	745070	20.0000	17.145	70.00- 130.00	100.00
8.612	8.612 (0.633)	49	245764			0.00- 30.00	32.99
8.612	8.612 (0.633)	66	253509			0.00- 30.00	34.02
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	3248247	20.0000	16.155	70.00- 130.00	100.00
9.296	9.296 (0.683)	103	2139503			36.19- 96.19	65.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.146	10.146 (0.746)	45	494024	20.0000	18.863	70.00- 130.00	100.00
10.146	10.146 (0.746)	43	140080			0.00- 30.00	28.35
10.146	10.146 (0.746)	46	210227			0.00- 30.00	42.55
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	1639109	20.0000	14.941	70.00- 130.00	100.00
10.498	10.498 (0.772)	153	1079582			35.16- 95.16	65.86
10.498	10.498 (0.772)	101	2008548			0.00- 30.00	122.54
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.772)	98	690500	20.0000	15.764	70.00- 130.00	100.00
10.477	10.477 (0.770)	61	2237383			0.00- 30.00	324.02
10.498	10.498 (0.772)	96	1069839			0.00- 30.00	154.94
20 Acetone					CAS #: 67-64-1		
10.747	10.747 (0.790)	58	647090	20.0000	16.873	70.00- 130.00	100.00
10.747	10.747 (0.790)	43	2301796			0.00- 30.00	355.71
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	597549	20.0000	19.139	70.00- 130.00	100.00
11.223	11.223 (0.825)	41	1668696			0.00- 30.00	279.26
21 2-Propanol					CAS #: 67-63-0		
11.099	11.099 (0.816)	45	2488821	20.0000	19.112	70.00- 130.00	100.00
11.099	11.099 (0.816)	43	603020			0.00- 30.00	24.23
11.120	11.120 (0.817)	59	111809			0.00- 30.00	4.49
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	3136190	20.0000	17.682	70.00- 130.00	100.00
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	958845	20.0000	15.972	70.00- 130.00	100.00
11.470	11.470 (0.843)	49	1424575			0.00- 30.00	148.57
11.470	11.470 (0.843)	51	481550			0.00- 30.00	50.22
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	3035239	20.0000	15.970	70.00- 130.00	100.00
11.800	11.800 (0.867)	57	832886			0.00- 30.00	27.44
11.800	11.800 (0.867)	41	924359			0.00- 30.00	30.45
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	805587	20.0000	17.108	70.00- 130.00	100.00
11.827	11.827 (0.869)	61	2108124			0.00- 30.00	261.69
11.827	11.827 (0.869)	96	1219301			0.00- 30.00	151.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	2009460	20.0000	17.784	70.00- 130.00	100.00
12.129	12.129 (0.892)	43	1276176			0.00- 30.00	63.51
12.129	12.129 (0.892)	86	348074			0.00- 30.00	17.32
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	2384438	20.0000	18.098	70.00- 130.00	100.00
12.486	12.486 (0.918)	65	792862			0.00- 30.00	33.25
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	2792443	20.0000	20.671	70.00- 130.00	100.00(A)
12.541	12.541 (0.922)	42	337598			0.00- 30.00	12.09
12.541	12.541 (0.922)	86	281326			0.00- 30.00	10.07
37 2-Butanone					CAS #: 78-93-3		
13.284	13.284 (0.976)	72	676152	20.0000	19.072	70.00- 130.00	100.00
13.284	13.284 (0.976)	43	2673062			0.00- 30.00	395.33
13.284	13.284 (0.976)	57	270404			0.00- 30.00	39.99
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	802398	20.0000	17.447	70.00- 130.00	100.00
13.284	13.284 (0.976)	61	1977421			0.00- 30.00	246.44
13.284	13.284 (0.976)	96	1238599			124.79- 184.79	154.36
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	1554335	20.0000	18.312	70.00- 130.00	100.00
13.605	13.605 (1.000)	71	645497			0.00- 30.00	41.53
13.605	13.605 (1.000)	72	678766			0.00- 30.00	43.67
40 Chloroform					CAS #: 67-66-3		
13.667	13.667 (1.005)	83	2837858	20.0000	17.701	70.00- 130.00	100.00
13.667	13.667 (1.005)	85	1873250			0.00- 30.00	66.01
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	3310532	20.0000	18.069	70.00- 130.00	100.00
13.882	13.882 (1.020)	99	2184498			0.00- 30.00	65.99
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	1806757	20.0000	17.482	70.00- 130.00	100.00
13.882	13.882 (1.020)	56	2335180			0.00- 30.00	129.25
13.882	13.882 (1.020)	41	1410475			0.00- 30.00	78.07
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.036 (1.032)	119	2339372	20.0000	17.808	70.00- 130.00	100.00
14.036	14.036 (1.032)	117	2418678			0.00- 30.00	103.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	2270588	20.0000	18.022	70.00- 130.00	100.00
14.310	14.310 (1.052)	57	6503107			0.00- 30.00	286.41
14.310	14.310 (1.052)	41	2206204			0.00- 30.00	97.16
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	3762839	20.0000	16.827	70.00- 130.00	100.00
14.338	14.338 (0.965)	77	983205			0.00- 30.00	26.13
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.448 (0.972)	62	2576192	20.0000	17.849	70.00- 130.00	100.00
14.448	14.448 (0.972)	64	913005			0.00- 30.00	35.44
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	1482518	20.0000	17.824	70.00- 130.00	100.00
14.530	14.530 (0.978)	100	495985			0.00- 30.00	33.46
14.530	14.530 (0.978)	43	2597840			0.00- 30.00	175.23
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	1646860	20.0000	17.044	70.00- 130.00	100.00
15.216	15.216 (1.024)	95	1901094			0.00- 30.00	115.44
15.216	15.216 (1.024)	97	1266516			0.00- 30.00	76.90
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.601	15.601 (1.050)	63	1637253	20.0000	17.701	70.00- 130.00	100.00
15.601	15.601 (1.050)	62	1201517			0.00- 30.00	73.39
15.601	15.601 (1.050)	41	1307626			47.90- 107.90	79.87
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	1124772	20.0000	18.507	70.00- 130.00	100.00
15.710	15.710 (1.057)	58	944850			0.00- 30.00	84.00
15.710	15.710 (1.057)	57	346734			0.00- 30.00	30.83
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	3290549	20.0000	18.534	70.00- 130.00	100.00
15.985	15.985 (1.076)	85	2145233			0.00- 30.00	65.19
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.680	16.680 (1.123)	75	2479516	20.0000	19.420	70.00- 130.00	100.00
16.680	16.680 (1.123)	77	839238			0.00- 30.00	33.85
16.680	16.680 (1.123)	39	1711049			37.73- 97.73	69.01
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	3755797	20.0000	19.529	70.00- 130.00	100.00
16.859	16.859 (1.135)	58	1555895			0.00- 30.00	41.43
16.859	16.859 (1.135)	85	721802			0.00- 30.00	19.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	4614477	20.0000	17.504	70.00- 130.00	100.00
17.150	17.150 (1.154)	92	2865385			0.00- 30.00	62.10
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.918)	75	2893505	20.0000	18.450	70.00- 130.00	100.00
17.531	17.531 (0.918)	77	999572			0.00- 30.00	34.55
17.531	17.531 (0.918)	39	1764962			29.55- 89.55	61.00
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	1875092	20.0000	17.778	70.00- 130.00	100.00
17.818	17.818 (0.933)	99	1205702			0.00- 30.00	64.30
17.818	17.818 (0.933)	83	1632044			56.32- 116.32	87.04
63 Tetrachloroethene					CAS #: 127-18-4		
17.935	17.935 (0.939)	166	2468156	20.0000	17.692	70.00- 130.00	100.00
17.906	17.906 (0.938)	129	1916093			0.00- 30.00	77.63
17.906	17.906 (0.938)	131	1867538			43.64- 103.64	75.67
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.051 (0.945)	58	2561330	20.0000	19.667	70.00- 130.00	100.00
18.051	18.051 (0.945)	43	4597237			0.00- 30.00	179.49
18.051	18.051 (0.945)	100	551003			0.00- 30.00	21.51
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	3170226	20.0000	18.872	70.00- 130.00	100.00
18.343	18.343 (0.961)	127	2551672			0.00- 30.00	80.49
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	3249554	20.0000	17.927	70.00- 130.00	100.00
18.547	18.547 (0.971)	109	3058701			0.00- 30.00	94.13
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.003)	112	5052736	20.0000	16.963	70.00- 130.00	100.00
19.141	19.141 (1.003)	114	1749448			0.00- 30.00	34.62
19.141	19.141 (1.003)	77	3744558			43.25- 103.25	74.11
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.214 (1.006)	106	2964156	20.0000	17.553	70.00- 130.00	100.00
19.214	19.214 (1.006)	91	9319496			0.00- 30.00	314.41
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	3760076	20.0000	17.587	70.00- 130.00	100.00
19.358	19.358 (1.014)	91	7734534			0.00- 30.00	205.70
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	3783808	20.0000	17.622	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	72 o-Xylene (continued)						
19.888	19.888 (1.042)	91	8080942			0.00- 30.00	213.57
	73 Styrene				CAS #: 100-42-5		
19.912	19.912 (1.043)	104	6011310	20.0000	18.343	70.00- 130.00	100.00
19.912	19.912 (1.043)	78	3622817			0.00- 30.00	60.27
	75 Bromoform				CAS #: 75-25-2		
20.201	20.201 (1.058)	173	3503209	20.0000	20.307	70.00- 130.00	100.00(A)
20.201	20.201 (1.058)	171	1889432			0.00- 30.00	53.93
	76 Cumene				CAS #: 98-82-8		
20.298	20.298 (1.063)	105	11009119	20.0000	17.947	70.00- 130.00	100.00
20.298	20.298 (1.063)	120	3046112			0.00- 30.00	27.67
	79 1,1,2,2-Tetrachloroethane				CAS #: 79-34-5		
20.729	20.729 (1.086)	83	6352504	20.0000	17.542	70.00- 130.00	100.00
20.729	20.729 (1.086)	85	4212672			0.00- 30.00	66.32
	80 Propylbenzene				CAS #: 103-65-1		
20.781	20.781 (1.088)	91	14774947	20.0000	18.498	70.00- 130.00	100.00
20.781	20.781 (1.088)	120	3494358			0.00- 30.00	23.65
	82 4-Ethyltoluene				CAS #: 622-96-8		
20.910	20.910 (1.095)	105	14177168	20.0000	18.376	70.00- 130.00	100.00
20.910	20.910 (1.095)	120	4580546			0.00- 30.00	32.31
	83 1,3,5-Trimethylbenzene				CAS #: 108-67-8		
20.987	20.987 (1.099)	105	10613690	20.0000	17.926	70.00- 130.00	100.00
20.987	20.987 (1.099)	120	5213929			0.00- 30.00	49.12
	85 1,2,4-Trimethylbenzene				CAS #: 95-63-6		
21.425	21.425 (1.122)	105	11082616	20.0000	18.508	70.00- 130.00	100.00
21.425	21.425 (1.122)	120	5162234			0.00- 30.00	46.58
	88 1,3-Dichlorobenzene				CAS #: 541-73-1		
21.812	21.812 (1.142)	146	7286461	20.0000	18.280	70.00- 130.00	100.00
21.812	21.812 (1.142)	148	4732394			0.00- 30.00	64.95
21.812	21.812 (1.142)	111	3383169			0.00- 30.00	46.43
	89 1,4-Dichlorobenzene				CAS #: 106-46-7		
21.915	21.915 (1.148)	146	7488022	20.0000	18.481	70.00- 130.00	100.00
21.915	21.915 (1.148)	148	4837702			0.00- 30.00	64.61
21.915	21.915 (1.148)	111	3327353			0.00- 30.00	44.44
	90 alpha-chlorotoluene				CAS #: 100-44-7		
22.044	22.044 (1.155)	91	10336676	20.0000	21.684	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.044	22.044 (1.155)	126	2122676			0.00- 30.00	20.54
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.354	22.354 (1.171)	146	6951252	20.0000	18.448	70.00- 130.00	100.00
22.354	22.354 (1.171)	148	4506896			35.51- 95.51	64.84
22.354	22.354 (1.171)	111	3344703			17.92- 77.92	48.12
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.263)	180	4918194	20.0000	19.852	70.00- 130.00	100.00
24.107	24.107 (1.263)	182	4651568			0.00- 30.00	94.58
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.267)	225	4010063	20.0000	18.592	70.00- 130.00	100.00
24.184	24.184 (1.267)	223	2656673			0.00- 30.00	66.25
99 Naphthalene					CAS #: 91-20-3		
24.416	24.416 (1.279)	128	9171689	20.0000	20.857	70.00- 130.00	100.00(A)
24.416	24.416 (1.279)	127	1335421			0.00- 30.00	14.56
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.496)	58	366105	20.0000	17.348	70.00- 130.00	100.00
6.737	6.737 (0.495)	43	2229204			0.00- 30.00	608.90
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	1157707	20.0000	17.171	70.00- 130.00	100.00
8.736	8.736 (0.642)	43	1475336			0.00- 30.00	127.44
8.736	8.736 (0.642)	42	1297355			0.00- 30.00	112.06
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.408 (1.133)	83	2574991	20.0000	18.712	70.00- 130.00	100.00
15.408	15.408 (1.133)	98	1239833			0.00- 30.00	48.15
15.408	15.408 (1.133)	55	2530693			0.00- 30.00	98.28
26 tert-butyl alcohol					CAS #: 75-65-0		
11.717	11.717 (0.861)	59	2907413	20.0000	18.036	70.00- 130.00	100.00
11.717	11.717 (0.861)	41	710831			0.00- 30.00	24.45
11.717	11.717 (0.861)	57	388956			0.00- 30.00	13.38

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: msdz.i
Lab File ID: z042220.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ACT
Method File: /chem/msdz.i/22Apr2008.b/t14l0422a.m
Misc Info: 50ppbv -> 20ppbv

Calibration Date: 22-APR-2008
Calibration Time: 21:50
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	407140	244284	569996	396921	-2.51
52 1,4-Difluorobenze	1616499	969899	2263099	1582388	-2.11
68 Chlorobenzene-d5	2038617	1223170	2854064	2016081	-1.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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/msdz.i/22Apr2008.b/z042220.d

Date : 22-APR-2008 22:30

Client ID: Level 10

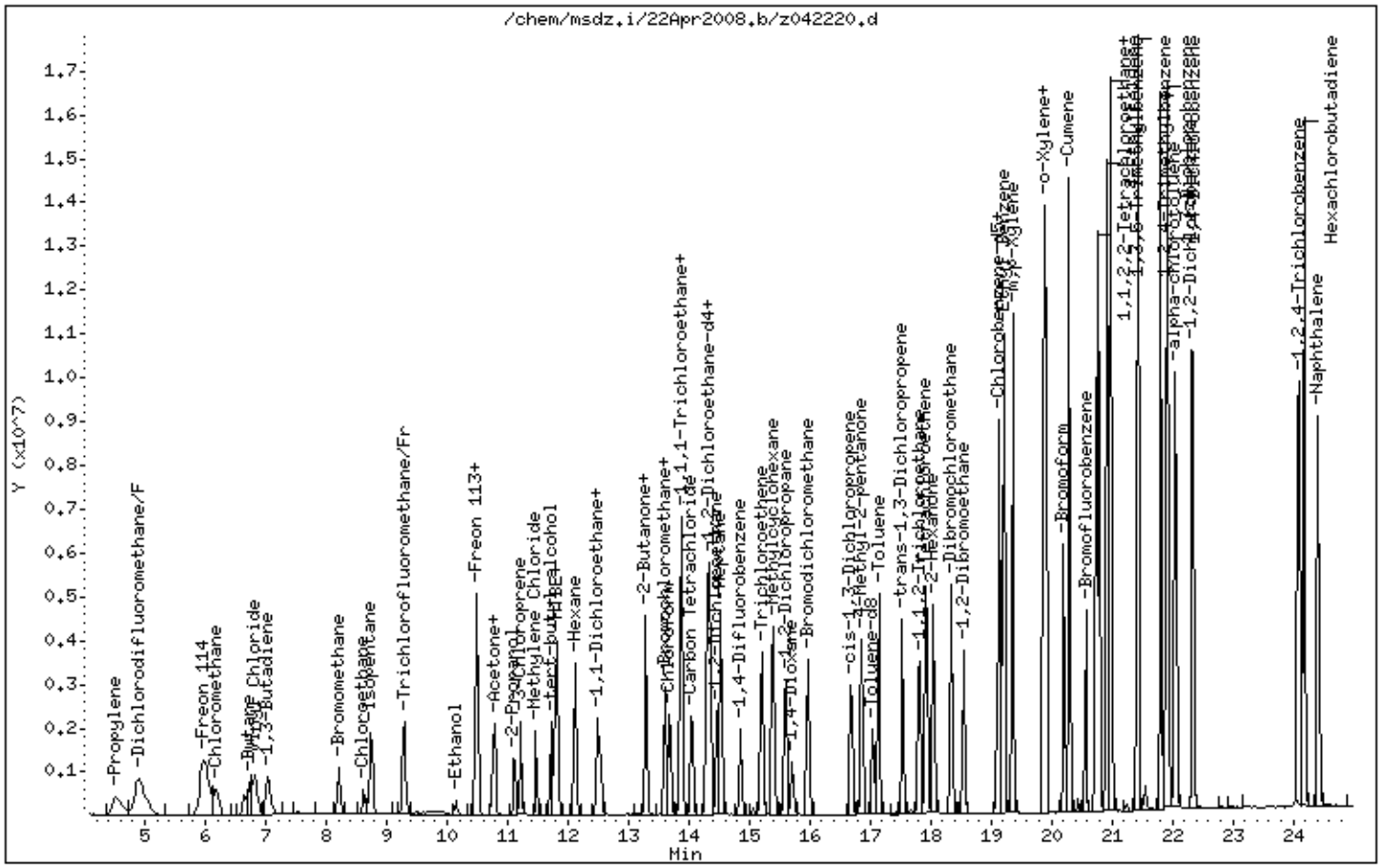
Instrument: msdz.i

Sample Info: 200mL #1541-91

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042908.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 29-APR-2008 15:50
Operator : sjr Inst ID: msdz.i
Smp Info : 400mL #1541-115
Misc Info : 50ppbv -> 40ppbv
Comment :
Method : /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD
Cal Date : 29-APR-2008 15:50 Cal File: z042908.d
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp4b.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	367950	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	287214			0.00- 30.00		78.06
13.605	13.605 (1.000)	49	585850			0.00- 30.00		159.22
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1420025	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	301480			0.00- 30.00		21.23
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1617379	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	1044015			0.00- 30.00		64.55
12 Vinyl Bromide						CAS #: 593-60-2		
9.109	9.109 (0.670)	106	1660906	40.0000	35.229	70.00- 130.00		100.00
9.130	9.130 (0.671)	108	1544376			0.00- 30.00		92.98
24 Acetonitrile						CAS #: 75-05-8		
11.333	11.333 (0.833)	40	1333744	40.0000	38.783	70.00- 130.00		100.00
11.388	11.388 (0.837)	41	3227681			0.00- 30.00		242.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
24 Acetonitrile (continued)							
11.388	11.388 (0.837)	39	1739688			0.00- 30.00	130.44
29 Acrylonitrile					CAS #: 107-13-1		
11.937	11.937 (0.877)	53	1599316	40.0000	40.999	70.00- 130.00	100.00(A)
11.937	11.937 (0.877)	52	1379453			0.00- 30.00	86.25
34 Chlorprene					CAS #: 126-99-8		
12.568	12.568 (0.924)	53	2965666	40.0000	41.173	70.00- 130.00	100.00(A)
12.568	12.568 (0.924)	88	1242614			0.00- 30.00	41.90

QC Flag Legend

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

Report Date: 09-May-2008 11:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042908.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdz.i/29Apr2008.b/t14l0422R1.m
Misc Info: 50ppbv -> 40ppbv

Calibration Date: 29-APR-2008
Calibration Time: 13:01
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	327424	196454	458394	367950	12.38
52 1,4-Difluorobenze	1205511	723307	1687715	1420025	17.79
68 Chlorobenzene-d5	1420624	852374	1988874	1617379	13.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/29Apr2008.b/z042908.d

Date : 29-APR-2008 15:50

Client ID: Level 11

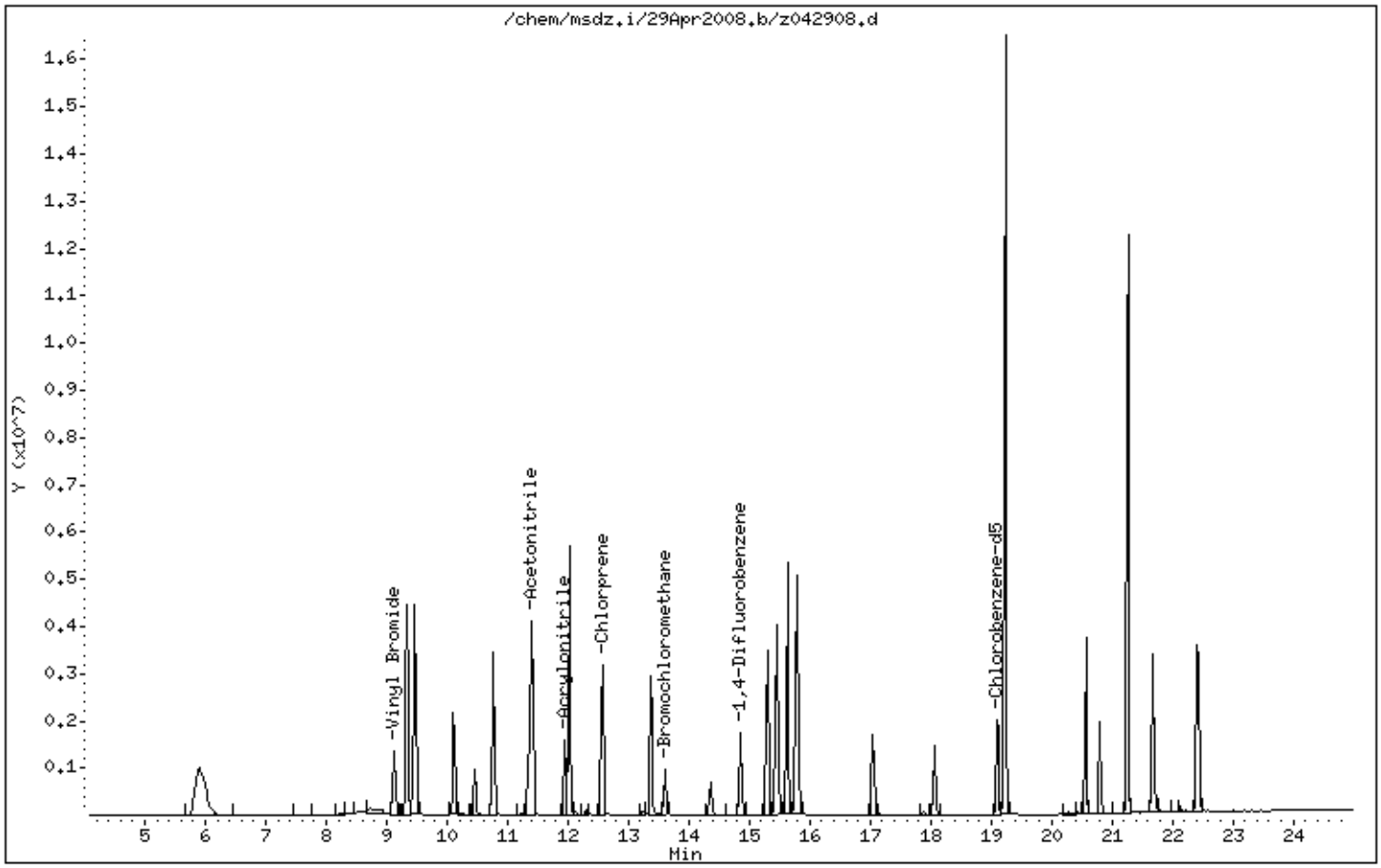
Instrument: msdz.i

Sample Info: 400mL #1541-115

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042221.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 22-APR-2008 23:25
Operator : ACT Inst ID: msdz.i
Smp Info : 400mL #1541-91
Misc Info : 50ppbv -> 40ppbv
Comment :
Method : /chem/msdz.i/22Apr2008.b/t14l0422a.m
Meth Date : 25-Apr-2008 07:37 sruth Quant Type: ISTD
Cal Date : 22-APR-2008 23:25 Cal File: z042221.d
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	429099	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	333791			0.00- 30.00		77.79
13.605	13.605 (1.000)	49	708068			0.00- 30.00		165.01
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1700904	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	359129			0.00- 30.00		21.11
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.093	19.093 (1.000)	117	2181747	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	1445756			0.00- 30.00		66.27
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	986318	10.0000	10.648	70.00- 130.00		100.00
14.365	14.365 (1.056)	67	606261			0.00- 30.00		61.47
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1826850	10.0000	10.273	70.00- 130.00		100.00
17.038	17.038 (1.147)	70	288749			0.00- 30.00		15.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1256543			37.57- 97.57	68.78
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.078)	174	1523488	10.0000	9.278	70.00- 130.00	100.00
20.574	20.574 (1.078)	95	2071459			103.94- 163.94	135.97
20.574	20.574 (1.078)	176	1457328			66.39- 126.39	95.66
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	2963454	40.0000	34.713	70.00- 130.00	100.00(A)
4.521	4.521 (0.332)	42	2031405			0.00- 30.00	68.55
4.521	4.521 (0.332)	39	2327035			0.00- 30.00	78.52
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	10296761	40.0000	29.844	70.00- 130.00	100.00(A)
4.907	4.907 (0.361)	87	3599846			5.02- 65.02	34.96
4 Freon 114					CAS #: 76-14-2		
5.991	5.991 (0.440)	135	5061248	40.0000	29.282	70.00- 130.00	100.00(A)
5.991	5.991 (0.440)	137	1749652			0.00- 30.00	34.57
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	3157962	40.0000	30.178	70.00- 130.00	100.00(A)
6.184	6.184 (0.455)	52	1066828			0.00- 30.00	33.78
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.502)	62	3003830	40.0000	28.717	70.00- 130.00	100.00(A)
6.823	6.823 (0.502)	64	1039371			4.56- 64.56	34.60
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.517)	54	2174185	40.0000	29.166	70.00- 130.00	100.00(A)
7.032	7.032 (0.517)	39	2200657			0.00- 30.00	101.22
9 Bromomethane					CAS #: 74-83-9		
8.198	8.198 (0.603)	94	2342472	40.0000	28.570	70.00- 130.00	100.00(A)
8.198	8.198 (0.603)	96	2198117			62.26- 122.26	93.84
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	1448556	40.0000	30.833	70.00- 130.00	100.00(A)
8.612	8.612 (0.633)	49	474368			0.00- 30.00	32.75
8.612	8.612 (0.633)	66	492412			0.00- 30.00	33.99
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	6010500	40.0000	27.651	70.00- 130.00	100.00(A)
9.296	9.296 (0.683)	103	3969852			36.19- 96.19	66.05

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.146	10.146 (0.746)	45	900611	40.0000	31.809	70.00- 130.00	100.00(A)
10.146	10.146 (0.746)	43	243207			0.00- 30.00	27.00
10.146	10.146 (0.746)	46	371657			0.00- 30.00	41.27
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	3121374	40.0000	26.318	70.00- 130.00	100.00(A)
10.498	10.498 (0.772)	153	2044846			35.16- 95.16	65.51
10.498	10.498 (0.772)	101	3805049			0.00- 30.00	121.90
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.772)	98	1371868	40.0000	28.970	70.00- 130.00	100.00(A)
10.477	10.477 (0.770)	61	4240300			0.00- 30.00	309.09
10.498	10.498 (0.772)	96	2086326			0.00- 30.00	152.08
20 Acetone					CAS #: 67-64-1		
10.747	10.747 (0.790)	58	1262121	40.0000	30.442	70.00- 130.00	100.00(A)
10.747	10.747 (0.790)	43	4417986			0.00- 30.00	350.04
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	1130432	40.0000	33.491	70.00- 130.00	100.00(A)
11.223	11.223 (0.825)	41	3247435			0.00- 30.00	287.27
21 2-Propanol					CAS #: 67-63-0		
11.099	11.099 (0.816)	45	4992035	40.0000	35.461	70.00- 130.00	100.00(A)
11.099	11.099 (0.816)	43	1110633			0.00- 30.00	22.25
11.099	11.099 (0.816)	59	214450			0.00- 30.00	4.30
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	6158712	40.0000	32.120	70.00- 130.00	100.00(A)
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	1860227	40.0000	28.664	70.00- 130.00	100.00(A)
11.470	11.470 (0.843)	49	2752189			0.00- 30.00	147.95
11.470	11.470 (0.843)	51	916119			0.00- 30.00	49.25
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	6043276	40.0000	29.413	70.00- 130.00	100.00(A)
11.800	11.800 (0.867)	57	1583346			0.00- 30.00	26.20
11.800	11.800 (0.867)	41	1690519			0.00- 30.00	27.97
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	1568173	40.0000	30.806	70.00- 130.00	100.00(A)
11.827	11.827 (0.869)	61	4070209			0.00- 30.00	259.55
11.827	11.827 (0.869)	96	2401607			0.00- 30.00	153.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	3884954	40.0000	31.804	70.00- 130.00	100.00(A)
12.129	12.129 (0.892)	43	2429859			0.00- 30.00	62.55
12.129	12.129 (0.892)	86	695079			0.00- 30.00	17.89
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	4644722	40.0000	32.611	70.00- 130.00	100.00(A)
12.486	12.486 (0.918)	65	1555459			0.00- 30.00	33.49
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	5259168	40.0000	36.012	70.00- 130.00	100.00(A)
12.541	12.541 (0.922)	42	656298			0.00- 30.00	12.48
12.541	12.541 (0.922)	86	545111			0.00- 30.00	10.36
37 2-Butanone					CAS #: 78-93-3		
13.284	13.284 (0.976)	72	1331521	40.0000	34.742	70.00- 130.00	100.00(A)
13.284	13.284 (0.976)	43	5149853			0.00- 30.00	386.76
13.284	13.284 (0.976)	57	527288			0.00- 30.00	39.60
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	1591611	40.0000	32.012	70.00- 130.00	100.00(A)
13.284	13.284 (0.976)	61	3872257			0.00- 30.00	243.29
13.284	13.284 (0.976)	96	2446854			124.79- 184.79	153.73
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	3033584	40.0000	33.059	70.00- 130.00	100.00(A)
13.605	13.605 (1.000)	71	1277538			0.00- 30.00	42.11
13.605	13.605 (1.000)	72	1338473			0.00- 30.00	44.12
40 Chloroform					CAS #: 67-66-3		
13.667	13.667 (1.005)	83	5516542	40.0000	31.829	70.00- 130.00	100.00(A)
13.667	13.667 (1.005)	85	3688129			0.00- 30.00	66.86
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	6392979	40.0000	32.276	70.00- 130.00	100.00(A)
13.882	13.882 (1.020)	99	4217581			0.00- 30.00	65.97
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	3476542	40.0000	31.116	70.00- 130.00	100.00(A)
13.882	13.882 (1.020)	56	4424922			0.00- 30.00	127.28
13.882	13.882 (1.020)	41	2654731			0.00- 30.00	76.36
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.036 (1.032)	119	4613367	40.0000	32.484	70.00- 130.00	100.00(A)
14.036	14.036 (1.032)	117	4748269			0.00- 30.00	102.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	4311102	40.0000	31.652	70.00- 130.00	100.00(A)
14.310	14.310 (1.052)	57	12477826			0.00- 30.00	289.43
14.310	14.310 (1.052)	41	4157062			0.00- 30.00	96.43
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	7288125	40.0000	30.321	70.00- 130.00	100.00(A)
14.338	14.338 (0.965)	77	1881363			0.00- 30.00	25.81
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.448 (0.972)	62	4918488	40.0000	31.704	70.00- 130.00	100.00(A)
14.448	14.448 (0.972)	64	1710381			0.00- 30.00	34.77
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	2771890	40.0000	31.004	70.00- 130.00	100.00(A)
14.530	14.530 (0.978)	100	940455			0.00- 30.00	33.93
14.530	14.530 (0.978)	43	4874119			0.00- 30.00	175.84
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	3230234	40.0000	31.101	70.00- 130.00	100.00(A)
15.216	15.216 (1.024)	95	3800635			0.00- 30.00	117.66
15.216	15.216 (1.024)	97	2493111			0.00- 30.00	77.18
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.601	15.601 (1.050)	63	3174515	40.0000	31.930	70.00- 130.00	100.00(A)
15.601	15.601 (1.050)	62	2313875			0.00- 30.00	72.89
15.601	15.601 (1.050)	41	2471074			47.90- 107.90	77.84
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	2254701	40.0000	34.513	70.00- 130.00	100.00(A)
15.710	15.710 (1.057)	58	1785692			0.00- 30.00	79.20
15.710	15.710 (1.057)	57	672713			0.00- 30.00	29.84
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	6553313	40.0000	34.339	70.00- 130.00	100.00(A)
15.985	15.985 (1.076)	85	4255676			0.00- 30.00	64.94
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.680	16.680 (1.123)	75	4969394	40.0000	36.208	70.00- 130.00	100.00(A)
16.680	16.680 (1.123)	77	1723067			0.00- 30.00	34.67
16.680	16.680 (1.123)	39	3375834			37.73- 97.73	67.93
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	7374890	40.0000	35.675	70.00- 130.00	100.00(A)
16.859	16.859 (1.135)	58	3086895			0.00- 30.00	41.86
16.859	16.859 (1.135)	85	1413759			0.00- 30.00	19.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	9207626	40.0000	32.494	70.00- 130.00	100.00(A)
17.150	17.150 (1.154)	92	5722434			0.00- 30.00	62.15
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.918)	75	5814899	40.0000	34.262	70.00- 130.00	100.00(A)
17.531	17.531 (0.918)	77	1984452			0.00- 30.00	34.13
17.531	17.531 (0.918)	39	3499484			29.55- 89.55	60.18
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.933)	97	3734590	40.0000	32.719	70.00- 130.00	100.00(A)
17.818	17.818 (0.933)	99	2404764			0.00- 30.00	64.39
17.818	17.818 (0.933)	83	3208622			56.32- 116.32	85.92
63 Tetrachloroethene					CAS #: 127-18-4		
17.906	17.906 (0.938)	166	4828281	40.0000	31.982	70.00- 130.00	100.00(A)
17.906	17.906 (0.938)	129	3727883			0.00- 30.00	77.21
17.906	17.906 (0.938)	131	3620057			43.64- 103.64	74.98
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.051 (0.945)	58	4879748	40.0000	34.624	70.00- 130.00	100.00(A)
18.051	18.051 (0.945)	43	8648519			0.00- 30.00	177.23
18.051	18.051 (0.945)	100	1035738			0.00- 30.00	21.23
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.961)	129	6271309	40.0000	34.497	70.00- 130.00	100.00(A)
18.343	18.343 (0.961)	127	4953906			0.00- 30.00	78.99
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.971)	107	6274329	40.0000	31.985	70.00- 130.00	100.00(A)
18.547	18.547 (0.971)	109	5862452			0.00- 30.00	93.44
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.003)	112	9708434	40.0000	30.119	70.00- 130.00	100.00(A)
19.141	19.141 (1.003)	114	3369518			0.00- 30.00	34.71
19.141	19.141 (1.003)	77	7270100			43.25- 103.25	74.88
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.214 (1.006)	106	5476487	40.0000	29.967	70.00- 130.00	100.00(A)
19.214	19.214 (1.006)	91	17360275			0.00- 30.00	317.00
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.014)	106	6883155	40.0000	29.751	70.00- 130.00	100.00(A)
19.358	19.358 (1.014)	91	14197672			0.00- 30.00	206.27
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.042)	106	6748871	40.0000	29.044	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	72 o-Xylene (continued)						
19.888	19.888 (1.042)	91	14750683			0.00- 30.00	218.57
	73 Styrene				CAS #: 100-42-5		
19.912	19.912 (1.043)	104	10935071	40.0000	30.833	70.00- 130.00	100.00(A)
19.912	19.912 (1.043)	78	6604228			0.00- 30.00	60.39
	75 Bromoform				CAS #: 75-25-2		
20.201	20.201 (1.058)	173	6497562	40.0000	34.804	70.00- 130.00	100.00(A)
20.201	20.201 (1.058)	171	3541354			0.00- 30.00	54.50
	76 Cumene				CAS #: 98-82-8		
20.298	20.298 (1.063)	105	18909132	40.0000	28.485	70.00- 130.00	100.00(A)
20.298	20.298 (1.063)	120	5384052			0.00- 30.00	28.47
	79 1,1,2,2-Tetrachloroethane				CAS #: 79-34-5		
20.729	20.729 (1.086)	83	11603466	40.0000	29.610	70.00- 130.00	100.00(A)
20.729	20.729 (1.086)	85	7556586			0.00- 30.00	65.12
	80 Propylbenzene				CAS #: 103-65-1		
20.781	20.781 (1.088)	91	23793117	40.0000	27.526	70.00- 130.00	100.00(A)
20.781	20.781 (1.088)	120	6105925			0.00- 30.00	25.66
	82 4-Ethyltoluene				CAS #: 622-96-8		
20.910	20.910 (1.095)	105	24475278	40.0000	29.316	70.00- 130.00	100.00(A)
20.910	20.910 (1.095)	120	8062779			0.00- 30.00	32.94
	83 1,3,5-Trimethylbenzene				CAS #: 108-67-8		
20.987	20.987 (1.099)	105	17768866	40.0000	27.732	70.00- 130.00	100.00(A)
20.987	20.987 (1.099)	120	8967655			0.00- 30.00	50.47
	85 1,2,4-Trimethylbenzene				CAS #: 95-63-6		
21.425	21.425 (1.122)	105	17913634	40.0000	27.644	70.00- 130.00	100.00(A)
21.425	21.425 (1.122)	120	9083811			0.00- 30.00	50.71
	88 1,3-Dichlorobenzene				CAS #: 541-73-1		
21.812	21.812 (1.142)	146	13404598	40.0000	31.075	70.00- 130.00	100.00(A)
21.812	21.812 (1.142)	148	8664818			0.00- 30.00	64.64
21.812	21.812 (1.142)	111	6205911			0.00- 30.00	46.30
	89 1,4-Dichlorobenzene				CAS #: 106-46-7		
21.915	21.915 (1.148)	146	13788889	40.0000	31.447	70.00- 130.00	100.00(A)
21.915	21.915 (1.148)	148	8956771			0.00- 30.00	64.96
21.915	21.915 (1.148)	111	6120894			0.00- 30.00	44.39
	90 alpha-chlorotoluene				CAS #: 100-44-7		
22.044	22.044 (1.155)	91	19581205	40.0000	37.959	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.044	22.044 (1.155)	126	3986377			0.00- 30.00	20.36
93 1,2-Dichlorobenzene						CAS #: 95-50-1	
22.354	22.354 (1.171)	146	13192969	40.0000	32.354	70.00- 130.00	100.00(A)
22.354	22.354 (1.171)	148	8481841			35.51- 95.51	64.29
22.354	22.354 (1.171)	111	6278891			17.92- 77.92	47.59
97 1,2,4-Trichlorobenzene						CAS #: 120-82-1	
24.107	24.107 (1.263)	180	9399947	40.0000	35.061	70.00- 130.00	100.00(A)
24.107	24.107 (1.263)	182	8861414			0.00- 30.00	94.27
98 Hexachlorobutadiene						CAS #: 87-68-3	
24.184	24.184 (1.267)	225	7737453	40.0000	33.150	70.00- 130.00	100.00(A)
24.184	24.184 (1.267)	223	5027074			0.00- 30.00	64.97
99 Naphthalene						CAS #: 91-20-3	
24.416	24.416 (1.279)	128	17206202	40.0000	36.157	70.00- 130.00	100.00(A)
24.416	24.416 (1.279)	127	2482563			0.00- 30.00	14.43
179 Butane						CAS #: 106-97-8	
6.754	6.754 (0.496)	58	674481	40.0000	29.563	70.00- 130.00	100.00(A)
6.754	6.754 (0.496)	43	4131819			0.00- 30.00	612.59
11 Isopentane						CAS #: 78-78-4	
8.736	8.736 (0.642)	57	2167683	40.0000	29.740	70.00- 130.00	100.00(A)
8.736	8.736 (0.642)	43	2784577			0.00- 30.00	128.46
8.736	8.736 (0.642)	42	2403460			0.00- 30.00	110.88
167 Methylcyclohexane						CAS #: 108-87-2	
15.408	15.408 (1.133)	83	4961433	40.0000	33.351	70.00- 130.00	100.00(A)
15.408	15.408 (1.133)	98	2425327			0.00- 30.00	48.88
15.408	15.408 (1.133)	55	4796351			0.00- 30.00	96.67
26 tert-butyl alcohol						CAS #: 75-65-0	
11.717	11.717 (0.861)	59	6058680	40.0000	34.767	70.00- 130.00	100.00
11.717	11.717 (0.861)	41	1436717			0.00- 30.00	23.71
11.717	11.717 (0.861)	57	798717			0.00- 30.00	13.18

QC Flag Legend

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

Report Date: 25-Apr-2008 07:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z042221.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ACT
Method File: /chem/msdz.i/22Apr2008.b/t14l0422a.m
Misc Info: 50ppbv -> 40ppbv

Calibration Date: 22-APR-2008
Calibration Time: 21:50
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	407140	244284	569996	429099	5.39
52 1,4-Difluorobenze	1616499	969899	2263099	1700904	5.22
68 Chlorobenzene-d5	2038617	1223170	2854064	2181747	7.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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/msdz.i/22Apr2008.b/z042221.d

Date : 22-APR-2008 23:25

Client ID: Level 11

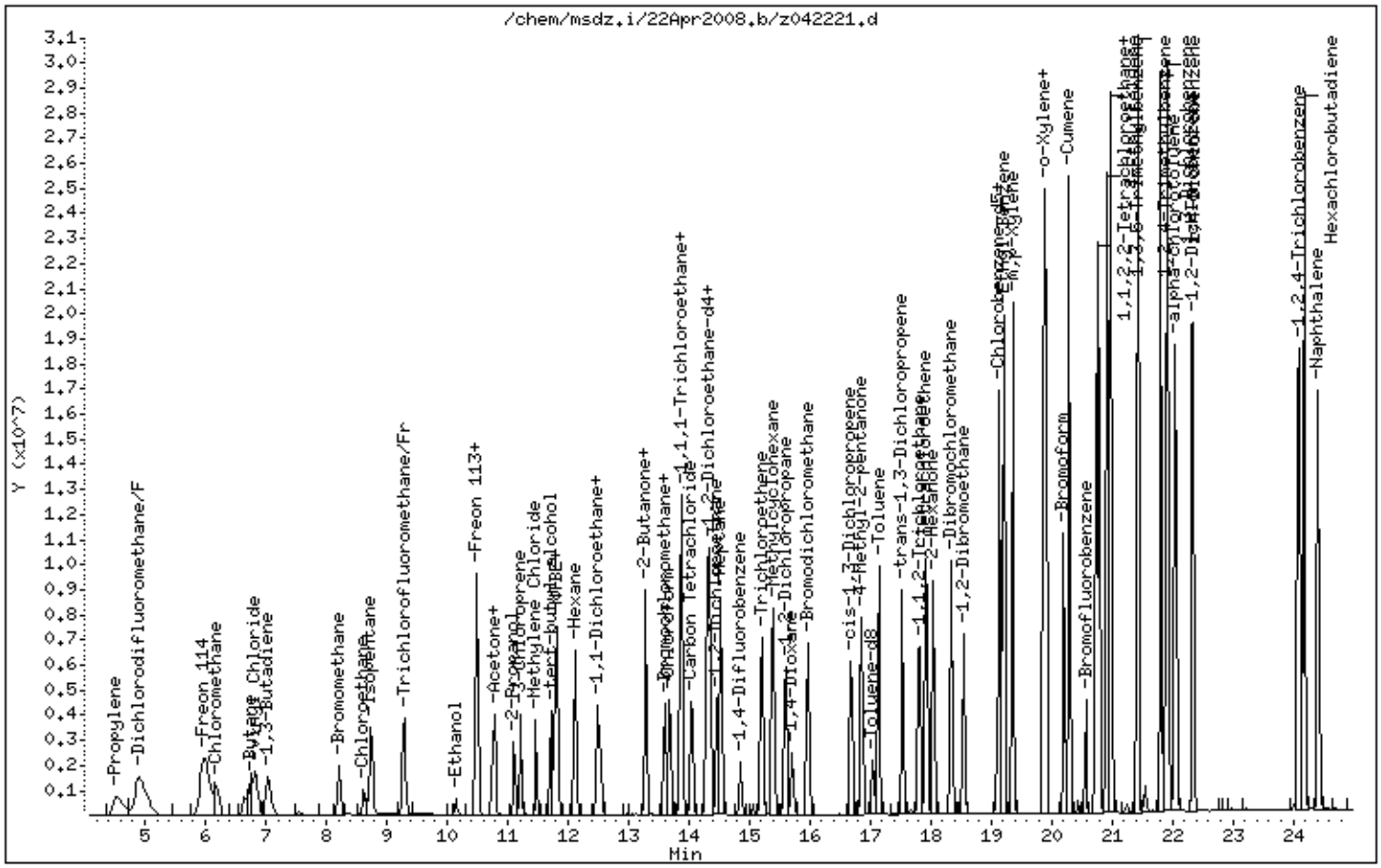
Instrument: msdz.i

Sample Info: 400mL #1541-91

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050802.d
Lab Smp Id: ICAL Client Smp ID: Level 12
Inj Date : 08-MAY-2008 10:02
Operator : sjr Inst ID: msdz.i
Smp Info : 250mL #1612-6
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msdz.i/08May2008.b/t14l0422c.m
Meth Date : 09-May-2008 12:18 ejakob Quant Type: ISTD
Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d
Als bottle: 1 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	304246	10.0000		70.00- 130.00		100.00
13.605	13.605 (1.000)	128	240883			0.00- 30.00		79.17
13.605	13.605 (1.000)	49	585947			0.00- 30.00		192.59
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1086229	10.0000		70.00- 130.00		100.00
14.859	14.859 (1.000)	88	228547			0.00- 30.00		21.04
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1389001	10.0000		70.00- 130.00		100.00
19.093	19.093 (1.000)	82	933142			0.00- 30.00		67.18
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	820472	10.0000	12.115	70.00- 130.00		100.00
14.365	14.365 (1.056)	67	620140			0.00- 30.00		75.58
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1240956	10.0000	10.802	70.00- 130.00		100.00
17.038	17.038 (1.147)	70	202064			0.00- 30.00		16.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	853346			37.59- 97.59	68.77
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.076)	174	997151	10.0000	9.594	70.00- 130.00	100.00
20.574	20.574 (1.076)	95	1360058			101.89- 161.89	136.39
20.574	20.574 (1.076)	176	962797			66.25- 126.25	96.55
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	5913794	100.000	98.021	70.00- 130.00	100.00(A)
4.521	4.521 (0.332)	42	4025193			0.00- 30.00	68.06
4.521	4.521 (0.332)	39	4715590			0.00- 30.00	79.74
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	18254219	100.000	77.064	70.00- 130.00	100.00(A)
4.907	4.907 (0.361)	87	6352405			4.96- 64.96	34.80
4 Freon 114					CAS #: 76-14-2		
5.991	5.991 (0.440)	135	8558238	100.000	72.570	70.00- 130.00	100.00(A)
5.967	5.967 (0.439)	137	2969851			0.00- 30.00	34.70
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	5791942	100.000	80.264	70.00- 130.00	100.00(A)
6.184	6.184 (0.455)	52	1919453			0.00- 30.00	33.14
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.502)	62	5063705	100.000	71.094	70.00- 130.00	100.00(A)
6.823	6.823 (0.502)	64	1755713			5.23- 65.23	34.67
7 1,3-Butadiene					CAS #: 106-99-0		
7.031	7.031 (0.517)	54	4296326	100.000	83.233	70.00- 130.00	100.00(A)
7.031	7.031 (0.517)	39	4584247			0.00- 30.00	106.70
9 Bromomethane					CAS #: 74-83-9		
8.197	8.197 (0.603)	94	4014845	100.000	71.840	70.00- 130.00	100.00(A)
8.197	8.197 (0.603)	96	3736698			65.93- 125.93	93.07
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	2587790	100.000	79.915	70.00- 130.00	100.00(A)
8.612	8.612 (0.633)	49	950396			0.00- 30.00	36.73
8.612	8.612 (0.633)	66	880990			0.00- 30.00	34.04
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.683)	101	10790286	100.000	72.737	70.00- 130.00	100.00(A)
9.296	9.296 (0.683)	103	7054975			36.03- 96.03	65.38

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.145	10.145 (0.746)	45	1623133	100.000	83.128	70.00- 130.00	100.00(A)
10.145	10.145 (0.746)	43	487252			0.00- 30.00	30.02
10.145	10.145 (0.746)	46	680964			0.00- 30.00	41.95
17 Freon 113					CAS #: 76-13-1		
10.498	10.498 (0.772)	151	4985826	100.000	62.469	70.00- 130.00	100.00(A)
10.498	10.498 (0.772)	153	3254167			34.98- 94.98	65.27
10.498	10.498 (0.772)	101	5971518			0.00- 30.00	119.77
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.477	10.477 (0.770)	98	2137325	100.000	66.687	70.00- 130.00	100.00(A)
10.477	10.477 (0.770)	61	7010335			0.00- 30.00	328.00
10.477	10.477 (0.770)	96	3252785			0.00- 30.00	152.19
20 Acetone					CAS #: 67-64-1		
10.746	10.746 (0.790)	58	2026807	100.000	72.148	70.00- 130.00	100.00(A)
10.746	10.746 (0.790)	43	7771194			0.00- 30.00	383.42
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	1857943	100.000	80.196	70.00- 130.00	100.00(A)
11.223	11.223 (0.825)	41	6155243			0.00- 30.00	331.29
21 2-Propanol					CAS #: 67-63-0		
11.099	11.099 (0.816)	45	7433136	100.000	77.288	70.00- 130.00	100.00(A)
11.099	11.099 (0.816)	43	2053550			0.00- 30.00	27.63
11.099	11.099 (0.816)	59	339758			0.00- 30.00	4.57
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	10007476	100.000	76.122	70.00- 130.00	100.00(A)
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	2982649	100.000	67.801	70.00- 130.00	100.00(A)
11.470	11.470 (0.843)	49	5009563			0.00- 30.00	167.96
11.470	11.470 (0.843)	51	1647595			0.00- 30.00	55.24
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	6228871	100.000	46.052	70.00- 130.00	100.00(A)
11.800	11.800 (0.867)	57	1753355			0.00- 30.00	28.15
11.800	11.800 (0.867)	41	2157474			0.00- 30.00	34.64
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	2581541	100.000	74.165	70.00- 130.00	100.00(A)
11.827	11.827 (0.869)	61	7020928			0.00- 30.00	271.97
11.827	11.827 (0.869)	96	3969234			0.00- 30.00	153.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	6715326	100.000	79.775	70.00- 130.00	100.00(A)
12.129	12.129 (0.892)	43	4524608			0.00- 30.00	67.38
12.129	12.129 (0.892)	86	1114578			0.00- 30.00	16.60
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	7676441	100.000	78.364	70.00- 130.00	100.00(A)
12.486	12.486 (0.918)	65	2546615			0.00- 30.00	33.17
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	8060158	100.000	80.385	70.00- 130.00	100.00(A)
12.541	12.541 (0.922)	42	965377			0.00- 30.00	11.98
12.541	12.541 (0.922)	86	731880			0.00- 30.00	9.08
37 2-Butanone					CAS #: 78-93-3		
13.284	13.284 (0.976)	72	2106285	100.000	79.194	70.00- 130.00	100.00(A)
13.284	13.284 (0.976)	43	9219498			0.00- 30.00	437.71
13.284	13.284 (0.976)	57	892786			0.00- 30.00	42.39
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	2533989	100.000	74.500	70.00- 130.00	100.00(A)
13.284	13.284 (0.976)	61	6491527			0.00- 30.00	256.18
13.284	13.284 (0.976)	96	3884165			119.42- 179.42	153.28
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	5694744	100.000	89.115	70.00- 130.00	100.00(A)
13.605	13.605 (1.000)	71	2011391			0.00- 30.00	35.32
13.605	13.605 (1.000)	72	2074239			0.00- 30.00	36.42
40 Chloroform					CAS #: 67-66-3		
13.666	13.666 (1.005)	83	9138494	100.000	76.826	70.00- 130.00	100.00(A)
13.666	13.666 (1.005)	85	6014351			0.00- 30.00	65.81
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	10540485	100.000	77.469	70.00- 130.00	100.00(A)
13.882	13.882 (1.020)	99	6870123			0.00- 30.00	65.18
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	5570257	100.000	73.024	70.00- 130.00	100.00(A)
13.882	13.882 (1.020)	56	7513187			0.00- 30.00	134.88
13.851	13.851 (1.018)	41	4675984			0.00- 30.00	83.95
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.036 (1.032)	119	10350688	100.000	102.43	70.00- 130.00	100.00(A)
14.036	14.036 (1.032)	117	10812034			0.00- 30.00	104.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	7479785	100.000	79.699	70.00- 130.00	100.00(A)
14.310	14.310 (1.052)	57	21545089			0.00- 30.00	288.04
14.310	14.310 (1.052)	41	7571310			0.00- 30.00	101.22
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	11779939	100.000	79.039	70.00- 130.00	100.00(A)
14.338	14.338 (0.965)	77	3024374			0.00- 30.00	25.67
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.447	14.447 (0.972)	62	8615950	100.000	88.405	70.00- 130.00	100.00(A)
14.447	14.447 (0.972)	64	2981239			0.00- 30.00	34.60
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	4770782	100.000	85.312	70.00- 130.00	100.00(A)
14.530	14.530 (0.978)	100	1508812			0.00- 30.00	31.63
14.530	14.530 (0.978)	43	8915623			0.00- 30.00	186.88
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	5257426	100.000	81.373	70.00- 130.00	100.00(A)
15.216	15.216 (1.024)	95	6014761			0.00- 30.00	114.41
15.216	15.216 (1.024)	97	3983528			0.00- 30.00	75.77
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.600	15.600 (1.050)	63	5168028	100.000	83.334	70.00- 130.00	100.00(A)
15.600	15.600 (1.050)	62	3744531			0.00- 30.00	72.46
15.600	15.600 (1.050)	41	4603136			56.56- 116.56	89.07
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	3412689	100.000	77.984	70.00- 130.00	100.00(A)
15.710	15.710 (1.057)	58	2982280			0.00- 30.00	87.39
15.710	15.710 (1.057)	57	1122614			0.00- 30.00	32.90
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	10948180	100.000	90.989	70.00- 130.00	100.00(A)
15.985	15.985 (1.076)	85	7127208			0.00- 30.00	65.10
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.680	16.680 (1.123)	75	7986789	100.000	92.147	70.00- 130.00	100.00(A)
16.680	16.680 (1.123)	77	2724978			0.00- 30.00	34.12
16.680	16.680 (1.123)	39	6143128			43.20- 103.20	76.92
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	13597712	100.000	102.61	70.00- 130.00	100.00(A)
16.859	16.859 (1.135)	58	5194602			0.00- 30.00	38.20
16.859	16.859 (1.135)	85	2231803			0.00- 30.00	16.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	14775235	100.000	83.566	70.00- 130.00	100.00(A)
17.150	17.150 (1.154)	92	9062485			0.00- 30.00	61.34
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.917)	75	9708519	100.000	91.006	70.00- 130.00	100.00(A)
17.531	17.531 (0.917)	77	3249742			0.00- 30.00	33.47
17.531	17.531 (0.917)	39	6481300			33.97- 93.97	66.76
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.932)	97	5751701	100.000	81.269	70.00- 130.00	100.00(A)
17.818	17.818 (0.932)	99	3684665			0.00- 30.00	64.06
17.789	17.789 (0.931)	83	5000133			53.58- 113.58	86.93
63 Tetrachloroethene					CAS #: 127-18-4		
17.935	17.935 (0.938)	166	7577795	100.000	80.985	70.00- 130.00	100.00(A)
17.905	17.905 (0.937)	129	5825294			0.00- 30.00	76.87
17.905	17.905 (0.937)	131	5667582			45.11- 105.11	74.79
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.051 (0.944)	58	7874685	100.000	89.324	70.00- 130.00	100.00(A)
18.051	18.051 (0.944)	43	15591473			0.00- 30.00	197.99
18.051	18.051 (0.944)	100	1571023			0.00- 30.00	19.95
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.959)	129	10600247	100.000	92.561	70.00- 130.00	100.00(A)
18.343	18.343 (0.959)	127	8469313			0.00- 30.00	79.90
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.970)	107	9752352	100.000	80.289	70.00- 130.00	100.00(A)
18.547	18.547 (0.970)	109	9075227			0.00- 30.00	93.06
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.001)	112	14415768	100.000	72.960	70.00- 130.00	100.00(A)
19.141	19.141 (1.001)	114	4942890			0.00- 30.00	34.29
19.141	19.141 (1.001)	77	10948468			41.05- 101.05	75.95
70 Ethyl Benzene					CAS #: 100-41-4		
19.213	19.213 (1.005)	106	8105499	100.000	72.413	70.00- 130.00	100.00(A)
19.213	19.213 (1.005)	91	21284234			0.00- 30.00	262.59
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.013)	106	10241451	100.000	72.283	70.00- 130.00	100.00(A)
19.358	19.358 (1.013)	91	19829267			0.00- 30.00	193.62
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.040)	106	9725412	100.000	68.682	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.040)	91	21711975			0.00- 30.00	223.25
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.042)	104	15906033	100.000	73.149	70.00- 130.00	100.00(A)
19.912	19.912 (1.042)	78	10289780			0.00- 30.00	64.69
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.057)	173	11614098	100.000	97.996	70.00- 130.00	100.00(A)
20.201	20.201 (1.057)	171	6413890			0.00- 30.00	55.23
76 Cumene					CAS #: 98-82-8		
20.297	20.297 (1.062)	105	22438238	100.000	56.399	70.00- 130.00	100.00(A)
20.297	20.297 (1.062)	120	7734241			0.00- 30.00	34.47
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.084)	83	16429763	100.000	68.790	70.00- 130.00	100.00(A)
20.729	20.729 (1.084)	85	10723794			0.00- 30.00	65.27
80 Propylbenzene					CAS #: 103-65-1		
20.780	20.780 (1.087)	91	26961703	100.000	52.330	70.00- 130.00	100.00(A)
20.780	20.780 (1.087)	120	8610102			0.00- 30.00	31.93
82 4-Ethyltoluene					CAS #: 622-96-8		
20.909	20.909 (1.094)	105	30010020	100.000	59.709	70.00- 130.00	100.00(A)
20.909	20.909 (1.094)	120	11036423			0.00- 30.00	36.78
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.098)	105	20170625	100.000	52.783	70.00- 130.00	100.00(A)
20.987	20.987 (1.098)	120	12647117			0.00- 30.00	62.70
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.121)	105	20120945	100.000	52.109	70.00- 130.00	100.00(A)
21.425	21.425 (1.121)	120	12415374			0.00- 30.00	61.70
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.141)	146	18149974	100.000	69.015	70.00- 130.00	100.00(A)
21.812	21.812 (1.141)	148	11787238			0.00- 30.00	64.94
21.812	21.812 (1.141)	111	8609460			0.00- 30.00	47.44
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.146)	146	18178360	100.000	68.088	70.00- 130.00	100.00(A)
21.915	21.915 (1.146)	148	12025311			0.00- 30.00	66.15
21.915	21.915 (1.146)	111	8494372			0.00- 30.00	46.73
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.153)	91	26896953	100.000	83.795	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.044	22.044 (1.153)	126	6348922			0.00- 30.00	23.60
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.353	22.353 (1.169)	146	18480401	100.000	73.846	70.00- 130.00	100.00(A)
22.353	22.353 (1.169)	148	11970321			35.81- 95.81	64.77
22.353	22.353 (1.169)	111	8949967			17.37- 77.37	48.43
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.261)	180	13660040	100.000	82.381	70.00- 130.00	100.00(A)
24.107	24.107 (1.261)	182	12691886			0.00- 30.00	92.91
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.265)	225	10557023	100.000	74.110	70.00- 130.00	100.00(A)
24.184	24.184 (1.265)	223	6994920			0.00- 30.00	66.26
99 Naphthalene					CAS #: 91-20-3		
24.416	24.416 (1.277)	128	22940264	100.000	78.441	70.00- 130.00	100.00(A)
24.416	24.416 (1.277)	127	3583174			0.00- 30.00	15.62
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.496)	58	1185890	100.000	76.216	70.00- 130.00	100.00(A)
6.754	6.754 (0.496)	43	7985570			0.00- 30.00	673.38
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	3885328	100.000	77.944	70.00- 130.00	100.00(A)
8.736	8.736 (0.642)	43	5383541			0.00- 30.00	138.56
8.736	8.736 (0.642)	42	4701157			0.00- 30.00	121.00
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.408 (1.133)	83	7847613	100.000	77.224	70.00- 130.00	100.00(A)
15.408	15.408 (1.133)	98	3814272			0.00- 30.00	48.60
15.408	15.408 (1.133)	55	8311748			0.00- 30.00	105.91
26 tert-butyl alcohol					CAS #: 75-65-0		
11.717	11.717 (0.861)	59	7570714	100.000	64.859	70.00- 130.00	100.00(A)
11.717	11.717 (0.861)	41	2243528			0.00- 30.00	29.63
11.717	11.717 (0.861)	57	1029114			0.00- 30.00	13.59

QC Flag Legend

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

Report Date: 09-May-2008 12:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z050802.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdz.i/08May2008.b/t14l0422c.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 08-MAY-2008
Calibration Time: 10:02
Client Smp ID: Level 12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	304246	182548	425944	304246	0.00
52 1,4-Difluorobenze	1086229	651737	1520721	1086229	0.00
68 Chlorobenzene-d5	1389001	833401	1944601	1389001	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/08May2008.b/z050802.d

Date : 08-MAY-2008 10:02

Client ID: Level 12

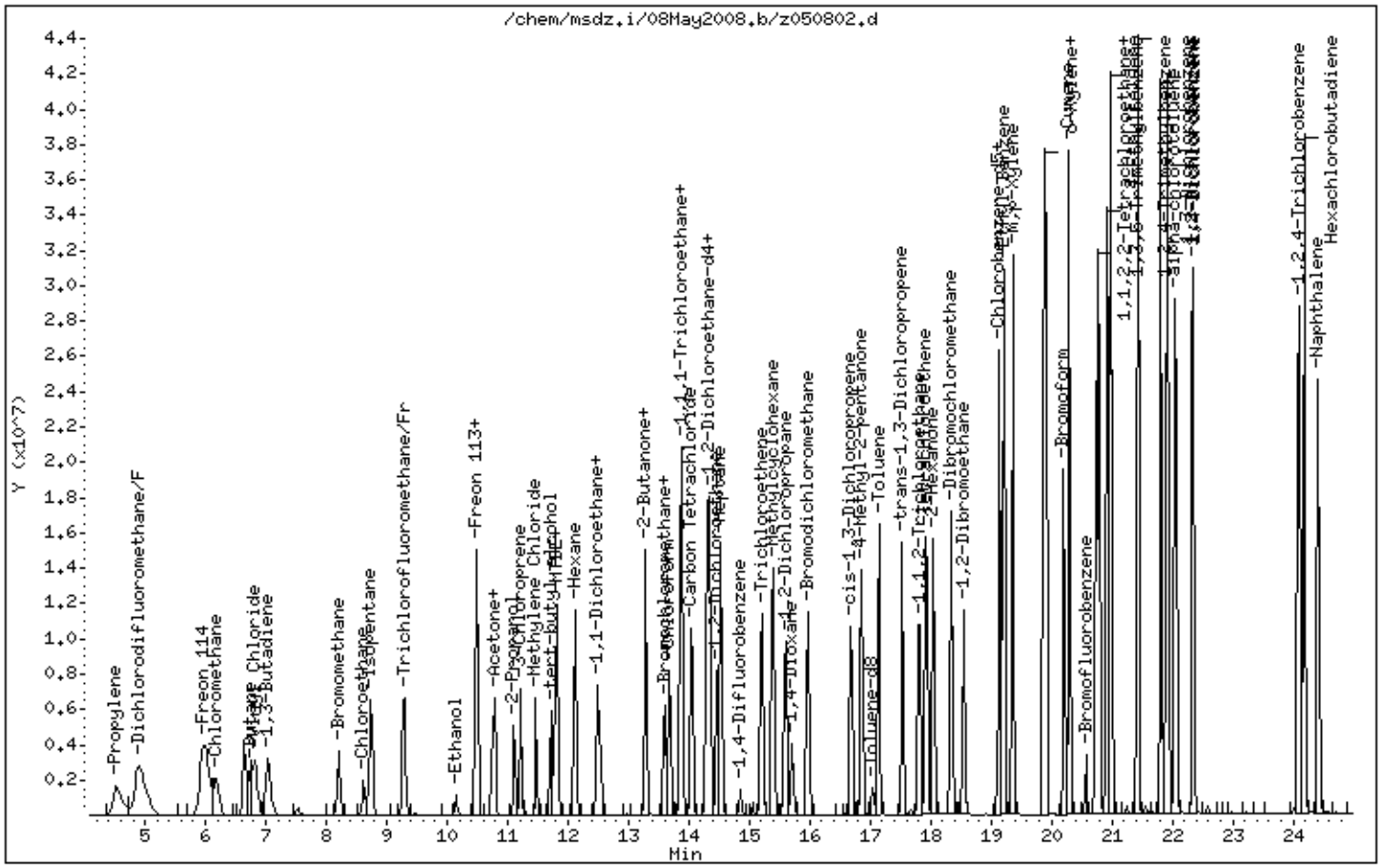
Instrument: msdz.i

Sample Info: 250mL #1612-6

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805371-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/08 09:55 AM**	

Compound	%Recovery
Freon 12	108
Freon 114	104
Vinyl Chloride	107
Bromomethane	103
Chloroethane	109
Freon 11	117
1,1-Dichloroethene	76
Freon 113	101
Methylene Chloride	92
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	82
Chloroform	95
1,1,1-Trichloroethane	98
Carbon Tetrachloride	124
Benzene	117
1,2-Dichloroethane	136 Q
Trichloroethene	109
1,2-Dichloropropane	114
cis-1,3-Dichloropropene	94
Toluene	105
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	110
Tetrachloroethene	114
1,2-Dibromoethane (EDB)	107
Chlorobenzene	105
Ethyl Benzene	104
m,p-Xylene	105
o-Xylene	99
Styrene	108
1,1,2,2-Tetrachloroethane	112
1,3,5-Trimethylbenzene	118
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	112
1,3-Butadiene	118
Hexane	89
Cyclohexane	82

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805371-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/08 09:55 AM**	

Compound	%Recovery
Heptane	121
Bromodichloromethane	120
Dibromochloromethane	127
Cumene	108
Propylbenzene	115
Chloromethane	119
1,2,4-Trichlorobenzene	115
Hexachlorobutadiene	112
Acetone	92
Carbon Disulfide	100
2-Propanol	81
trans-1,2-Dichloroethene	95
2-Butanone (Methyl Ethyl Ketone)	85
Tetrahydrofuran	98
1,4-Dioxane	101
4-Methyl-2-pentanone	126
2-Hexanone	106
Bromoform	142 Q
4-Ethyltoluene	113
Ethanol	101
Methyl tert-butyl ether	78
3-Chloropropene	86
2,2,4-Trimethylpentane	91
Naphthalene	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i Injection Date: 20-MAY-2008 09:55
Lab File ID: z052002.d Init. Cal. Date(s): 22-APR-2008 08-MAY-2008
Analysis Type: AIR Init. Cal. Times: 19:38 10:02
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msdz.i/20May2008.b/t14l0422c.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 47 1,2-Dichloroethane-d4	2.22596	2.30521	0.010	-3.56058	30.00000	Averaged
$ 59 Toluene-d8	1.05765	1.15520	0.010	-9.22310	30.00000	Averaged
$ 77 Bromofluorobenzene	0.74828	0.80312	0.010	-7.32868	30.00000	Averaged
1 Propylene	1.98300	2.41611	0.010	-21.84153	40.00000	Averaged
3 Dichlorodifluoromethane/Fr1	7.78547	8.44208	0.010	-8.43375	30.00000	Averaged
4 Freon 114	3.87617	4.03006	0.010	-3.97033	30.00000	Averaged
5 Chloromethane	2.37179	2.82522	0.010	-19.11731	30.00000	Averaged
6 Vinyl Chloride	2.34104	2.50586	0.010	-7.04010	30.00000	Averaged
7 1,3-Butadiene	1.69659	2.01074	0.010	-18.51660	30.00000	Averaged
9 Bromomethane	1.83686	1.88755	0.010	-2.75951	30.00000	Averaged
10 Chloroethane	1.06433	1.16373	0.010	-9.33940	30.00000	Averaged
13 Trichlorofluoromethane/Fr11	4.87589	5.69172	0.010	-16.73203	30.00000	Averaged
14 Ethanol	0.64177	0.64943	0.010	-1.19323	30.00000	Averaged
15 1,1-Dichloroethene	1.05343	0.80126	0.010	23.93780	30.00000	Averaged
17 Freon 113	2.62328	2.65241	0.010	-1.11024	30.00000	Averaged
19 Carbon Disulfide	4.32105	4.33666	0.010	-0.36125	30.00000	Averaged
20 Acetone	0.92334	0.84785	0.010	8.17532	30.00000	Averaged
21 2-Propanol	3.16108	2.56341	0.010	18.90716	30.00000	Averaged
22 3-Chloroprene	0.76147	0.65330	0.010	14.20498	40.00000	Averaged
25 Methylene Chloride	1.44591	1.32479	0.010	8.37655	30.00000	Averaged
27 MTBE	4.44562	3.47213	0.010	21.89786	30.00000	Averaged
28 trans-1,2-Dichloroethene	1.14408	1.08766	0.010	4.93154	30.00000	Averaged
30 Hexane	2.76678	2.47073	0.010	10.70023	30.00000	Averaged
31 1,1-Dichloroethane	3.21972	3.21459	0.010	0.15915	30.00000	Averaged
33 Vinyl Acetate	3.29565	2.45294	0.010	25.57062	40.00000	Averaged
36 cis-1,2-Dichloroethene	1.11795	0.91685	0.010	17.98853	30.00000	Averaged
37 2-Butanone	0.87418	0.74325	0.010	14.97680	30.00000	Averaged
38 Tetrahydrofuran	2.10038	2.06892	0.010	1.49829	30.00000	Averaged
40 Chloroform	3.90970	3.71241	0.010	5.04602	30.00000	Averaged
42 Cyclohexane	2.50718	2.05274	0.010	18.12568	30.00000	Averaged
43 1,1,1-Trichloroethane	4.47206	4.37320	0.010	2.21068	30.00000	Averaged
44 Carbon Tetrachloride	3.32125	4.11363	0.010	-23.85795	30.00000	Averaged
46 Benzene	1.37209	1.60939	0.010	-17.29501	30.00000	Averaged
45 2,2,4-Trimethylpentane	3.08470	2.81914	0.010	8.60895	30.00000	Averaged
49 1,2-Dichloroethane	0.89724	1.21690	0.010	-35.62732	30.00000	Averaged <-

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i Injection Date: 20-MAY-2008 09:55
Lab File ID: z052002.d Init. Cal. Date(s): 22-APR-2008 08-MAY-2008
Analysis Type: AIR Init. Cal. Times: 19:38 10:02
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msdz.i/20May2008.b/t14l0422c.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
50 Heptane	0.51482	0.62156	0.010	-20.73190	30.00000	Averaged	
53 Trichloroethene	0.59480	0.64760	0.010	-8.87697	30.00000	Averaged	
54 1,2-Dichloropropane	0.57093	0.65310	0.010	-14.39321	30.00000	Averaged	
55 1,4-Dioxane	0.40288	0.40611	0.010	-0.80339	30.00000	Averaged	
56 Bromodichloromethane	1.10773	1.33283	0.010	-20.32091	30.00000	Averaged	
57 cis-1,3-Dichloropropene	0.79794	0.75339	0.010	5.58331	30.00000	Averaged	
58 4-Methyl-2-pentanone	1.21993	1.54167	0.010	-26.37391	30.00000	Averaged	
60 Toluene	1.62774	1.71665	0.010	-5.46280	30.00000	Averaged	
61 trans-1,3-Dichloropropene	0.76804	0.79569	0.010	-3.60132	30.00000	Averaged	
62 1,1,2-Trichloroethane	0.50953	0.56106	0.010	-10.11417	30.00000	Averaged	
63 Tetrachloroethene	0.67365	0.76816	0.010	-14.02931	30.00000	Averaged	
64 2-Hexanone	0.63469	0.67002	0.010	-5.56663	30.00000	Averaged	
66 Dibromochloromethane	0.82449	1.04927	0.010	-27.26399	30.00000	Averaged	
67 1,2-Dibromoethane	0.87448	0.93418	0.010	-6.82715	30.00000	Averaged	
69 Chlorobenzene	1.42249	1.49901	0.010	-5.37904	30.00000	Averaged	
70 Ethyl Benzene	0.80586	0.83517	0.010	-3.63671	30.00000	Averaged	
71 m,p-Xylene	1.02005	1.07043	0.010	-4.93898	30.00000	Averaged	
72 o-Xylene	1.01944	1.01251	0.010	0.67958	30.00000	Averaged	
73 Styrene	1.56548	1.69118	0.010	-8.02890	30.00000	Averaged	
75 Bromoform	0.85325	1.20843	0.010	-41.62760	30.00000	Averaged	<-
76 Cumene	2.86427	3.09050	0.010	-7.89869	30.00000	Averaged	
79 1,1,2,2-Tetrachloroethane	1.71949	1.92532	0.010	-11.97006	30.00000	Averaged	
80 Propylbenzene	3.70928	4.28273	0.010	-15.46001	30.00000	Averaged	
82 4-Ethyltoluene	3.61844	4.08969	0.010	-13.02353	30.00000	Averaged	
83 1,3,5-Trimethylbenzene	2.75120	3.23361	0.010	-17.53481	30.00000	Averaged	
85 1,2,4-Trimethylbenzene	2.77995	3.11079	0.010	-11.90107	30.00000	Averaged	
88 1,3-Dichlorobenzene	1.89335	2.11365	0.010	-11.63564	30.00000	Averaged	
89 1,4-Dichlorobenzene	1.92211	2.18606	0.010	-13.73226	30.00000	Averaged	
90 alpha-chlorotoluene	2.31092	2.74780	0.010	-18.90516	30.00000	Averaged	
93 1,2-Dichlorobenzene	1.80170	2.01260	0.010	-11.70526	30.00000	Averaged	
97 1,2,4-Trichlorobenzene	1.19378	1.36837	0.010	-14.62513	30.00000	Averaged	
98 Hexachlorobutadiene	1.02557	1.14906	0.010	-12.04182	30.00000	Averaged	
99 Naphthalene	2.10548	2.04981	0.010	2.64429	30.00000	Averaged	
179 Butane	0.51142	0.53394	0.010	-4.40323	40.00000	Averaged	
11 Isopentane	1.63841	1.86608	0.010	-13.89602	40.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i Injection Date: 20-MAY-2008 09:55
Lab File ID: z052002.d Init. Cal. Date(s): 22-APR-2008 08-MAY-2008
Analysis Type: AIR Init. Cal. Times: 19:38 10:02
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msdz.i/20May2008.b/t14l0422c.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
167 Methylcyclohexane	3.34009	2.71985	0.010	18.56961	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/20May2008.b/z052002.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 20-MAY-2008 09:55
Operator : nk Inst ID: msdz.i
Smp Info : 200mL #1541-95A
Misc Info : 25ppbv -> 10ppbv
Comment :
Method : /var/chem/msdz.i/20May2008.b/t14l0422c.m
Meth Date : 20-May-2008 10:09 nkhan Quant Type: ISTD
Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.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
* 39 Bromochloromethane						CAS #: 74-97-5		
13.605	13.605 (1.000)	130	457449	10.0000		80.00- 120.00		100.00
13.605	13.605 (1.000)	128	358308			0.00- 30.00		78.33
13.605	13.605 (1.000)	49	885927			0.00- 30.00		193.67
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.859	14.859 (1.000)	114	1351567	10.0000		80.00- 120.00		100.00
14.859	14.859 (1.000)	88	283812			0.00- 30.00		21.00
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.117	19.117 (1.000)	117	1715015	10.0000		80.00- 120.00		100.00
19.093	19.093 (1.000)	82	1163819			0.00- 30.00		67.86
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.365	14.365 (1.056)	65	1054518	10.0000	10.356	80.00- 120.00		100.00
14.365	14.365 (1.056)	67	570910			0.00- 30.00		54.14
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.038	17.038 (1.147)	98	1561330	10.0000	10.922	80.00- 120.00		100.00
17.038	17.038 (1.147)	70	275504			0.00- 30.00		17.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1053704			37.49- 97.49	67.49
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.076)	174	1377355	10.0000	10.733	80.00- 120.00	100.00
20.574	20.574 (1.076)	95	1983031			113.97- 173.97	143.97
20.574	20.574 (1.076)	176	1309767			65.09- 125.09	95.09
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	1105250	10.0000	12.184	80.00- 120.00	100.00
4.521	4.521 (0.332)	42	780083			0.00- 30.00	70.58
4.521	4.521 (0.332)	39	936445			0.00- 30.00	84.73
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.361)	85	3861824	10.0000	10.843	80.00- 120.00	100.00
4.907	4.907 (0.361)	87	1354828			5.08- 65.08	35.08
4 Freon 114					CAS #: 76-14-2		
5.991	5.991 (0.440)	135	1843551	10.0000	10.397	80.00- 120.00	100.00
5.991	5.991 (0.440)	137	622624			0.00- 30.00	33.77
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	1292394	10.0000	11.912	80.00- 120.00	100.00
6.184	6.184 (0.455)	52	429491			0.00- 30.00	33.23
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.502)	62	1146302	10.0000	10.704	80.00- 120.00	100.00
6.823	6.823 (0.502)	64	386744			3.74- 63.74	33.74
7 1,3-Butadiene					CAS #: 106-99-0		
7.014	7.014 (0.516)	54	919813	10.0000	11.852	80.00- 120.00	100.00
7.014	7.014 (0.516)	39	1041030			0.00- 30.00	113.18
9 Bromomethane					CAS #: 74-83-9		
8.197	8.197 (0.603)	94	863460	10.0000	10.276	80.00- 120.00	100.00
8.197	8.197 (0.603)	96	820213			64.99- 124.99	94.99
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	532348	10.0000	10.934	80.00- 120.00	100.00
8.612	8.612 (0.633)	49	196701			0.00- 30.00	36.95
8.612	8.612 (0.633)	66	183116			0.00- 30.00	34.40
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.275	9.275 (0.682)	101	2603675	10.0000	11.673	80.00- 120.00	100.00
9.275	9.275 (0.682)	103	1706769			35.55- 95.55	65.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.145	10.145 (0.746)	45	297081	10.0000	10.119	80.00- 120.00	100.00
10.145	10.145 (0.746)	43	119882			0.00- 30.00	40.35
10.145	10.145 (0.746)	46	118653			0.00- 30.00	39.94
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.477	10.477 (0.770)	98	366537	10.0000	7.606	80.00- 120.00	100.00
10.477	10.477 (0.770)	61	1241691			0.00- 30.00	338.76
10.477	10.477 (0.770)	96	566554			0.00- 30.00	154.57
17 Freon 113					CAS #: 76-13-1		
10.477	10.477 (0.770)	151	1213343	10.0000	10.111	80.00- 120.00	100.00
10.477	10.477 (0.770)	153	804283			36.29- 96.29	66.29
10.477	10.477 (0.770)	101	1493909			0.00- 30.00	123.12
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	1983802	10.0000	10.036	80.00- 120.00	100.00
20 Acetone					CAS #: 67-64-1		
10.746	10.746 (0.790)	58	387850	10.0000	9.182	80.00- 120.00	100.00
10.746	10.746 (0.790)	43	1528057			0.00- 30.00	393.98
21 2-Propanol					CAS #: 67-63-0		
11.099	11.099 (0.816)	45	1172629	10.0000	8.109	80.00- 120.00	100.00
11.099	11.099 (0.816)	43	482822			0.00- 30.00	41.17
11.099	11.099 (0.816)	59	50191			0.00- 30.00	4.28
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	298852	10.0000	8.580	80.00- 120.00	100.00
11.202	11.202 (0.823)	41	1099662			0.00- 30.00	367.96
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	606026	10.0000	9.162	80.00- 120.00	100.00
11.470	11.470 (0.843)	49	1062669			0.00- 30.00	175.35
11.470	11.470 (0.843)	51	346015			0.00- 30.00	57.10
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	1588323	10.0000	7.810	80.00- 120.00	100.00
11.800	11.800 (0.867)	57	467887			0.00- 30.00	29.46
11.800	11.800 (0.867)	41	766519			0.00- 30.00	48.26
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	497548	10.0000	9.507	80.00- 120.00	100.00
11.827	11.827 (0.869)	61	1392246			0.00- 30.00	279.82
11.827	11.827 (0.869)	96	769947			0.00- 30.00	154.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	1130234	10.0000	8.930	80.00- 120.00	100.00
12.129	12.129 (0.892)	43	851487			0.00- 30.00	75.34
12.129	12.129 (0.892)	86	178597			0.00- 30.00	15.80
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	1470513	10.0000	9.984	80.00- 120.00	100.00
12.486	12.486 (0.918)	65	480428			0.00- 30.00	32.67
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	1122094	10.0000	7.443	80.00- 120.00	100.00
12.541	12.541 (0.922)	42	161768			0.00- 30.00	14.42
12.541	12.541 (0.922)	86	100263			0.00- 30.00	8.94
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	419411	10.0000	8.201	80.00- 120.00	100.00
13.284	13.284 (0.976)	61	1125453			0.00- 30.00	268.34
13.284	13.284 (0.976)	96	646774			124.21- 184.21	154.21
37 2-Butanone					CAS #: 78-93-3		
13.284	13.284 (0.976)	72	340001	10.0000	8.502	80.00- 120.00	100.00
13.284	13.284 (0.976)	43	1734054			0.00- 30.00	510.01
13.284	13.284 (0.976)	57	158302			0.00- 30.00	46.56
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	946424	10.0000	9.850	80.00- 120.00	100.00
13.605	13.605 (1.000)	71	287190			0.00- 30.00	30.34
13.605	13.605 (1.000)	72	318398			0.00- 30.00	33.64
40 Chloroform					CAS #: 67-66-3		
13.666	13.666 (1.005)	83	1698242	10.0000	9.495	80.00- 120.00	100.00
13.666	13.666 (1.005)	85	1129282			0.00- 30.00	66.50
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	939023	10.0000	8.187	80.00- 120.00	100.00
13.882	13.882 (1.020)	56	1311195			0.00- 30.00	139.63
13.851	13.851 (1.018)	41	963535			0.00- 30.00	102.61
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	2000518	10.0000	9.779	80.00- 120.00	100.00
13.882	13.882 (1.020)	99	1343910			0.00- 30.00	67.18
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.036 (1.032)	119	1881777	10.0000	12.386	80.00- 120.00	100.00
14.036	14.036 (1.032)	117	1935903			0.00- 30.00	102.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	2175198	10.0000	11.730	80.00- 120.00	100.00
14.338	14.338 (0.965)	77	570369			0.00- 30.00	26.22
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	1289614	10.0000	9.139	80.00- 120.00	100.00
14.310	14.310 (1.052)	57	3379884			0.00- 30.00	262.08
14.310	14.310 (1.052)	41	1434272			0.00- 30.00	111.22
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.447	14.447 (0.972)	62	1644718	10.0000	13.563	80.00- 120.00	100.00
14.447	14.447 (0.972)	64	570108			0.00- 30.00	34.66
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	840073	10.0000	12.073	80.00- 120.00	100.00
14.530	14.530 (0.978)	100	243644			0.00- 30.00	29.00
14.530	14.530 (0.978)	43	1662256			0.00- 30.00	197.87
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	875275	10.0000	10.888	80.00- 120.00	100.00
15.216	15.216 (1.024)	95	955678			0.00- 30.00	109.19
15.216	15.216 (1.024)	97	650617			0.00- 30.00	74.33
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.600	15.600 (1.050)	63	882708	10.0000	11.439	80.00- 120.00	100.00
15.600	15.600 (1.050)	62	628091			0.00- 30.00	71.16
15.600	15.600 (1.050)	41	938012			76.27- 136.27	106.27
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	548889	10.0000	10.080	80.00- 120.00	100.00
15.710	15.710 (1.057)	58	508371			0.00- 30.00	92.62
15.710	15.710 (1.057)	57	195490			0.00- 30.00	35.62
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	1801407	10.0000	12.032	80.00- 120.00	100.00
15.985	15.985 (1.076)	85	1165891			0.00- 30.00	64.72
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.702	16.702 (1.124)	75	1018252	10.0000	9.442	80.00- 120.00	100.00
16.702	16.702 (1.124)	77	348088			0.00- 30.00	34.18
16.680	16.680 (1.123)	39	859994			54.46- 114.46	84.46
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	2083673	10.0000	12.637	80.00- 120.00	100.00
16.859	16.859 (1.135)	58	717255			0.00- 30.00	34.42
16.859	16.859 (1.135)	85	299103			0.00- 30.00	14.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	2320175	10.0000	10.546	80.00- 120.00	100.00
17.150	17.150 (1.154)	92	1454169			0.00- 30.00	62.67
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.917)	75	1364628	10.0000	10.360	80.00- 120.00	100.00
17.531	17.531 (0.917)	77	469849			0.00- 30.00	34.43
17.531	17.531 (0.917)	39	1036119			45.93- 105.93	75.93
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.932)	97	962228	10.0000	11.011	80.00- 120.00	100.00
17.818	17.818 (0.932)	99	636926			0.00- 30.00	66.19
17.789	17.789 (0.931)	83	824459			55.68- 115.68	85.68
63 Tetrachloroethene					CAS #: 127-18-4		
17.905	17.905 (0.937)	166	1317411	10.0000	11.403	80.00- 120.00	100.00
17.905	17.905 (0.937)	129	1057034			0.00- 30.00	80.24
17.905	17.905 (0.937)	131	1020687			47.48- 107.48	77.48
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.051 (0.944)	58	1149094	10.0000	10.557	80.00- 120.00	100.00
18.051	18.051 (0.944)	43	2592622			0.00- 30.00	225.62
18.051	18.051 (0.944)	100	215975			0.00- 30.00	18.80
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.959)	129	1799522	10.0000	12.726	80.00- 120.00	100.00
18.343	18.343 (0.959)	127	1434797			0.00- 30.00	79.73
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.970)	107	1602138	10.0000	10.683	80.00- 120.00	100.00
18.547	18.547 (0.970)	109	1492229			0.00- 30.00	93.14
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.001)	112	2570818	10.0000	10.538	80.00- 120.00	100.00
19.141	19.141 (1.001)	114	888816			0.00- 30.00	34.57
19.141	19.141 (1.001)	77	1909422			44.27- 104.27	74.27
70 Ethyl Benzene					CAS #: 100-41-4		
19.213	19.213 (1.005)	106	1432329	10.0000	10.364	80.00- 120.00	100.00
19.213	19.213 (1.005)	91	4412947			0.00- 30.00	308.10
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.013)	106	1835800	10.0000	10.494	80.00- 120.00	100.00
19.358	19.358 (1.013)	91	3848736			0.00- 30.00	209.65
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.040)	106	1736477	10.0000	9.932	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.040)	91	3818732			0.00- 30.00	219.91
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.042)	104	2900392	10.0000	10.803	80.00- 120.00	100.00
19.912	19.912 (1.042)	78	1835119			0.00- 30.00	63.27
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.057)	173	2072480	10.0000	14.163	80.00- 120.00	100.00
20.201	20.201 (1.057)	171	1137269			0.00- 30.00	54.87
76 Cumene					CAS #: 98-82-8		
20.297	20.297 (1.062)	105	5300265	10.0000	10.790	80.00- 120.00	100.00
20.297	20.297 (1.062)	120	1477352			0.00- 30.00	27.87
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.084)	83	3301949	10.0000	11.197	80.00- 120.00	100.00
20.729	20.729 (1.084)	85	2191156			0.00- 30.00	66.36
80 Propylbenzene					CAS #: 103-65-1		
20.780	20.780 (1.087)	91	7344957	10.0000	11.546	80.00- 120.00	100.00
20.780	20.780 (1.087)	120	1704311			0.00- 30.00	23.20
82 4-Ethyltoluene					CAS #: 622-96-8		
20.909	20.909 (1.094)	105	7013884	10.0000	11.302	80.00- 120.00	100.00
20.909	20.909 (1.094)	120	2264379			0.00- 30.00	32.28
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.098)	105	5545700	10.0000	11.753	80.00- 120.00	100.00
20.987	20.987 (1.098)	120	2701885			0.00- 30.00	48.72
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.121)	105	5335051	10.0000	11.190	80.00- 120.00	100.00
21.425	21.425 (1.121)	120	2504912			0.00- 30.00	46.95
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.141)	146	3624945	10.0000	11.164	80.00- 120.00	100.00
21.812	21.812 (1.141)	148	2383642			0.00- 30.00	65.76
21.812	21.812 (1.141)	111	1709046			0.00- 30.00	47.15
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.146)	146	3749134	10.0000	11.373	80.00- 120.00	100.00
21.915	21.915 (1.146)	148	2432753			0.00- 30.00	64.89
21.915	21.915 (1.146)	111	1674639			0.00- 30.00	44.67
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.153)	91	4712517	10.0000	11.890	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.070	22.070 (1.154)	126	998536			0.00- 30.00	21.19
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.353	22.353 (1.169)	146	3451634	10.0000	11.170	80.00- 120.00	100.00
22.353	22.353 (1.169)	148	2229677			34.60- 94.60	64.60
22.353	22.353 (1.169)	111	1656277			17.99- 77.99	47.99
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.261)	180	2346779	10.0000	11.462	80.00- 120.00	100.00
24.107	24.107 (1.261)	182	2222664			0.00- 30.00	94.71
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.265)	225	1970660	10.0000	11.204	80.00- 120.00	100.00
24.184	24.184 (1.265)	223	1295702			0.00- 30.00	65.75
99 Naphthalene					CAS #: 91-20-3		
24.416	24.416 (1.277)	128	3515453	10.0000	9.736	80.00- 120.00	100.00
24.416	24.416 (1.277)	127	511002			0.00- 30.00	14.54
179 Butane					CAS #: 106-97-8		
6.736	6.736 (0.495)	58	244248	10.0000	10.440	80.00- 120.00	100.00
6.736	6.736 (0.495)	43	1724988			0.00- 30.00	706.24
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	853638	10.0000	11.390	80.00- 120.00	100.00
8.736	8.736 (0.642)	43	1272958			0.00- 30.00	149.12
8.715	8.715 (0.641)	42	1154091			0.00- 30.00	135.20
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.408 (1.133)	83	1244194	10.0000	8.143	80.00- 120.00	100.00
15.408	15.408 (1.133)	98	603620			0.00- 30.00	48.51
15.408	15.408 (1.133)	55	1410748			0.00- 30.00	113.39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052002.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: nk
Method File: /var/chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: 25ppbv -> 10ppbv

Calibration Date: 20-MAY-2008
Calibration Time: 09:55
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	457449	274469	640429	457449	0.00
52 1,4-Difluorobenze	1351567	810940	1892194	1351567	0.00
68 Chlorobenzene-d5	1715015	1029009	2401021	1715015	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/20May2008.b/z052002.d

Date : 20-MAY-2008 09:55

Client ID: CCV-1

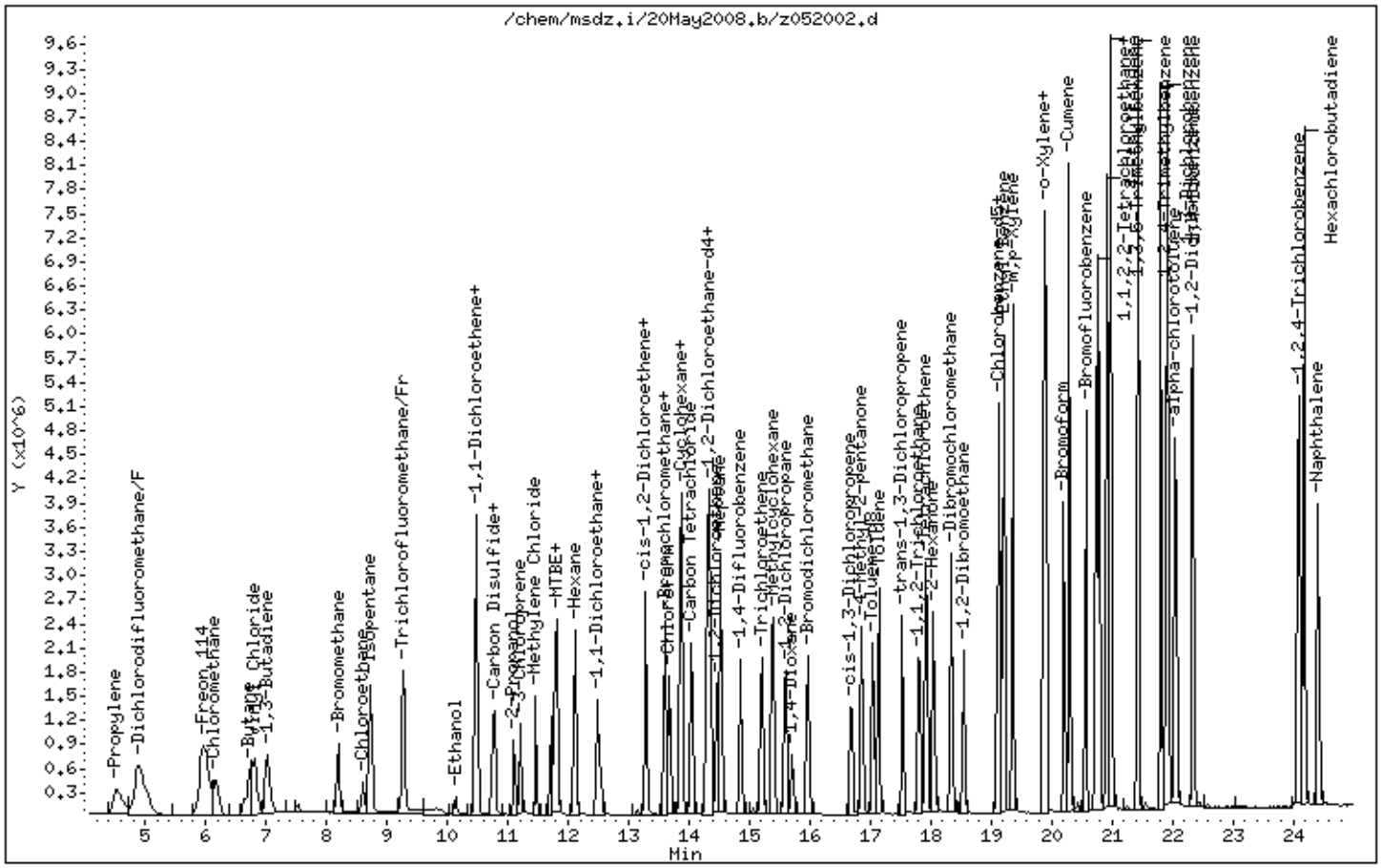
Instrument: msdz.i

Sample Info: 200mL #1541-95A

Operator: nk

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805371-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/08 10:40 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	98
Vinyl Chloride	102
Bromomethane	100
Chloroethane	106
Freon 11	108
1,1-Dichloroethene	79
Freon 113	106
Methylene Chloride	90
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	79
Chloroform	89
1,1,1-Trichloroethane	93
Carbon Tetrachloride	118
Benzene	106
1,2-Dichloroethane	125
Trichloroethene	98
1,2-Dichloropropane	103
cis-1,3-Dichloropropene	83
Toluene	99
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	102
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	95
Chlorobenzene	96
Ethyl Benzene	94
m,p-Xylene	96
o-Xylene	92
Styrene	95
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	100
1,3-Butadiene	115
Hexane	86
Cyclohexane	76

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805371-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/08 10:40 AM**	

Compound	%Recovery
Heptane	109
Bromodichloromethane	111
Dibromochloromethane	118
Cumene	102
Propylbenzene	107
Chloromethane	116
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	100
Acetone	86
Carbon Disulfide	95
2-Propanol	80
trans-1,2-Dichloroethene	88
2-Butanone (Methyl Ethyl Ketone)	80
Tetrahydrofuran	89
1,4-Dioxane	83
4-Methyl-2-pentanone	112
2-Hexanone	93
Bromoform	121
4-Ethyltoluene	100
Ethanol	86
Methyl tert-butyl ether	76
3-Chloropropene	83
2,2,4-Trimethylpentane	87
Naphthalene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	107	70-130

Report Date: 27-May-2008 09:30

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 20May2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: nk
Data Type: MS DATA SampleType: LCS
SpikeList File: SpectraENSR.spk Quant Type: ISTD
Sublist File: AT06ENSR.sub
Method File: /chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: 25ppbv -> 10ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
3 Dichlorodifluorome	10.000	10.096	100.96	70-130
1 Propylene	10.000	12.666	126.66	60-140
4 Freon 114	10.000	9.858	98.58	70-130
5 Chloromethane	10.000	11.645	116.45	70-130
6 Vinyl Chloride	10.000	10.151	101.51	70-130
7 1,3-Butadiene	10.000	11.537	115.37	60-140
9 Bromomethane	10.000	10.036	100.36	70-130
10 Chloroethane	10.000	10.579	105.79	70-130
13 Trichlorofluoromet	10.000	10.770	107.70	70-130
14 Ethanol	10.000	8.600	86.00	60-140
17 Freon 113	10.000	10.581	105.81	70-130
15 1,1-Dichloroethene	10.000	7.911	79.11	70-130
20 Acetone	10.000	8.623	86.23	60-140
19 Carbon Disulfide	10.000	9.465	94.65	60-140
21 2-Propanol	10.000	7.994	79.94	60-140
22 3-Chloroprene	10.000	8.346	83.46	60-140
25 Methylene Chloride	10.000	9.009	90.09	70-130
27 MTBE	10.000	7.611	76.11	60-140
28 trans-1,2-Dichloro	10.000	8.788	87.88	60-140
30 Hexane	10.000	8.596	85.96	60-140
31 1,1-Dichloroethane	10.000	9.685	96.85	70-130
33 Vinyl Acetate	10.000	7.858	78.58	60-140
36 cis-1,2-Dichloroet	10.000	7.926	79.27	70-130
37 2-Butanone	10.000	7.989	79.89	60-140
38 Tetrahydrofuran	10.000	8.929	89.29	60-140
40 Chloroform	10.000	8.907	89.07	70-130
42 Cyclohexane	10.000	7.659	76.59	60-140
43 1,1,1-Trichloroeth	10.000	9.330	93.30	70-130
44 Carbon Tetrachlori	10.000	11.754	117.55	70-130
45 2,2,4-Trimethylpen	10.000	8.688	86.88	60-140
46 Benzene	10.000	10.613	106.13	70-130
50 Heptane	10.000	10.870	108.70	60-140
49 1,2-Dichloroethane	10.000	12.484	124.84	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
53 Trichloroethene	10.000	9.816	98.16	70-130
54 1,2-Dichloropropan	10.000	10.270	102.70	70-130
55 1,4-Dioxane	10.000	8.330	83.30	60-140
56 Bromodichlorometha	10.000	11.122	111.22	60-140
57 cis-1,3-Dichloropr	10.000	8.326	83.26	70-130
58 4-Methyl-2-pentano	10.000	11.243	112.43	60-140
60 Toluene	10.000	9.939	99.39	70-130
61 trans-1,3-Dichloro	10.000	9.410	94.10	70-130
62 1,1,2-Trichloroeth	10.000	10.227	102.27	70-130
64 2-Hexanone	10.000	9.293	92.93	60-140
63 Tetrachloroethene	10.000	10.656	106.56	70-130
66 Dibromochlorometha	10.000	11.765	117.65	60-140
67 1,2-Dibromoethane	10.000	9.537	95.37	70-130
69 Chlorobenzene	10.000	9.597	95.97	70-130
70 Ethyl Benzene	10.000	9.359	93.59	70-130
71 m,p-Xylene	10.000	9.559	95.59	70-130
72 o-Xylene	10.000	9.196	91.96	70-130
73 Styrene	10.000	9.530	95.30	70-130
75 Bromoform	10.000	12.131	121.31	60-140
76 Cumene	10.000	10.175	101.75	60-140
79 1,1,2,2-Tetrachlor	10.000	10.352	103.52	70-130
80 Propylbenzene	10.000	10.668	106.68	70-130
82 4-Ethyltoluene	10.000	10.024	100.24	60-140
83 1,3,5-Trimethylben	10.000	10.320	103.21	70-130
85 1,2,4-Trimethylben	10.000	10.036	100.36	70-130
88 1,3-Dichlorobenzen	10.000	9.821	98.21	70-130
89 1,4-Dichlorobenzen	10.000	10.050	100.50	70-130
90 alpha-chlorotoluen	10.000	9.936	99.36	70-130
93 1,2-Dichlorobenzen	10.000	10.056	100.56	70-130
97 1,2,4-Trichloroben	10.000	11.784	117.84	70-130
98 Hexachlorobutadien	10.000	10.022	100.22	60-140
99 Naphthalene	10.000	10.342	103.42	60-140
11 Isopentane	10.000	11.496	114.96	60-140
179 Butane	10.000	10.605	106.05	60-140
167 Methylcyclohexane	10.000	7.732	77.32	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.359	103.59	70-130
$ 59 Toluene-d8	10.000	10.638	106.38	70-130
$ 77 Bromofluorobenzene	10.000	10.661	106.61	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/20May2008.b/z052003.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 20-MAY-2008 10:40
Operator : nk Inst ID: msdz.i
Smp Info : 200mL #1541-52A
Misc Info : 25ppbv -> 10ppbv
Comment :
Method : /chem/msdz.i/20May2008.b/t14l0422c.m
Meth Date : 20-May-2008 14:03 nkhan Quant Type: ISTD
Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS			
				ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 39 Bromochloromethane						CAS #: 74-97-5	
13.605	13.605 (1.000)	130	453023	10.0000		80.00- 120.00	100.00
13.605	13.605 (1.000)	128	356558			0.00- 30.00	78.71
13.605	13.605 (1.000)	49	888259			0.00- 30.00	196.07
* 52 1,4-Difluorobenzene						CAS #: 540-36-3	
14.859	14.859 (1.000)	114	1388668	10.0000		80.00- 120.00	100.00
14.859	14.859 (1.000)	88	285412			0.00- 30.00	20.55
* 68 Chlorobenzene-d5						CAS #: 3114-55-4	
19.117	19.117 (1.000)	117	1681428	10.0000		80.00- 120.00	100.00
19.093	19.117 (1.000)	82	1144708			0.00- 30.00	68.08
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.365	14.365 (1.056)	65	1044585	10.3587	10.359	80.00- 120.00	100.00
14.365	14.365 (1.056)	67	555874			0.00- 30.00	53.21
$ 59 Toluene-d8						CAS #: 2037-26-5	
17.038	17.038 (1.147)	98	1562484	10.6384	10.638	80.00- 120.00	100.00
17.038	17.038 (1.147)	70	268766			0.00- 30.00	17.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.038	17.038 (1.147)	100	1083262			37.49- 97.49	69.33
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.574	20.574 (1.076)	174	1341314	10.6608	10.661	80.00- 120.00	100.00
20.574	20.574 (1.076)	95	1900790			113.97- 173.97	141.71
20.574	20.574 (1.076)	176	1308044			65.09- 125.09	97.52
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	1137824	12.6658	12.666	80.00- 120.00	100.00
4.521	4.521 (0.332)	42	777976			0.00- 30.00	68.37
4.521	4.521 (0.332)	39	920039			0.00- 30.00	80.86
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.907 (0.359)	85	3560797	10.0958	10.096	80.00- 120.00	100.00
4.907	4.907 (0.361)	87	1246369			5.08- 65.08	35.00
4 Freon 114					CAS #: 76-14-2		
5.967	5.991 (0.439)	135	1731005	9.85770	9.858	80.00- 120.00	100.00
5.967	5.991 (0.439)	137	594105			0.00- 30.00	34.32
5 Chloromethane					CAS #: 74-87-3		
6.184	6.184 (0.455)	50	1251217	11.6449	11.645	80.00- 120.00	100.00
6.184	6.184 (0.455)	52	419644			0.00- 30.00	33.54
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.502)	62	1076571	10.1511	10.151	80.00- 120.00	100.00
6.823	6.823 (0.502)	64	361240			3.74- 63.74	33.55
7 1,3-Butadiene					CAS #: 106-99-0		
7.014	7.014 (0.516)	54	886723	11.5369	11.537	80.00- 120.00	100.00
7.014	7.014 (0.516)	39	976831			0.00- 30.00	110.16
9 Bromomethane					CAS #: 74-83-9		
8.197	8.197 (0.603)	94	835175	10.0364	10.036	80.00- 120.00	100.00
8.197	8.197 (0.603)	96	773558			64.99- 124.99	92.62
10 Chloroethane					CAS #: 75-00-3		
8.612	8.612 (0.633)	64	510093	10.5792	10.579	80.00- 120.00	100.00
8.612	8.612 (0.633)	49	186201			0.00- 30.00	36.50
8.612	8.612 (0.633)	66	172474			0.00- 30.00	33.81
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.275	9.275 (0.682)	101	2378946	10.7699	10.770	80.00- 120.00	100.00
9.275	9.275 (0.682)	103	1557422			35.55- 95.55	65.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.146	10.145 (0.746)	45	250021	8.59955	8.600	80.00- 120.00	100.00
10.146	10.145 (0.746)	43	94499			0.00- 30.00	37.80
10.146	10.145 (0.746)	46	102618			0.00- 30.00	41.04
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.477	10.477 (0.770)	98	377533	7.91094	7.911	80.00- 120.00	100.00
10.477	10.477 (0.770)	61	1323960			0.00- 30.00	350.69
10.477	10.477 (0.770)	96	591795			0.00- 30.00	156.75
17 Freon 113					CAS #: 76-13-1		
10.498	10.477 (0.772)	151	1257416	10.5807	10.581	80.00- 120.00	100.00
10.498	10.477 (0.772)	153	833434			36.29- 96.29	66.28
10.498	10.477 (0.772)	101	1526504			0.00- 30.00	121.40
19 Carbon Disulfide					CAS #: 75-15-0		
10.788	10.788 (0.793)	76	1852802	9.46498	9.465	80.00- 120.00	100.00
20 Acetone					CAS #: 67-64-1		
10.747	10.746 (0.790)	58	360693	8.62296	8.623	80.00- 120.00	100.00
10.747	10.746 (0.790)	43	1445194			0.00- 30.00	400.67
21 2-Propanol					CAS #: 67-63-0		
11.120	11.099 (0.817)	45	1144803	7.99421	7.994	80.00- 120.00	100.00
11.099	11.099 (0.816)	43	455646			0.00- 30.00	39.80
11.120	11.099 (0.817)	59	45692			0.00- 30.00	3.99
22 3-Chloroprene					CAS #: 107-05-1		
11.223	11.223 (0.825)	76	287923	8.34650	8.346	80.00- 120.00	100.00
11.223	11.223 (0.825)	41	1040384			0.00- 30.00	361.34
25 Methylene Chloride					CAS #: 75-09-2		
11.470	11.470 (0.843)	84	590115	9.00896	9.009	80.00- 120.00	100.00
11.470	11.470 (0.843)	49	1088644			0.00- 30.00	184.48
11.470	11.470 (0.843)	51	340253			0.00- 30.00	57.66
27 MTBE					CAS #: 1634-04-4		
11.800	11.800 (0.867)	73	1532846	7.61107	7.611	80.00- 120.00	100.00
11.800	11.800 (0.867)	57	441490			0.00- 30.00	28.80
11.800	11.800 (0.867)	41	736110			0.00- 30.00	48.02
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.827	11.827 (0.869)	98	455452	8.78752	8.788	80.00- 120.00	100.00
11.827	11.827 (0.869)	61	1308273			0.00- 30.00	287.25
11.827	11.827 (0.869)	96	703284			0.00- 30.00	154.41

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.129	12.129 (0.892)	57	1077412	8.59580	8.596	80.00- 120.00	100.00
12.129	12.129 (0.892)	43	805755			0.00- 30.00	74.79
12.129	12.129 (0.892)	86	177492			0.00- 30.00	16.47
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.486	12.486 (0.918)	63	1412677	9.68512	9.685	80.00- 120.00	100.00
12.486	12.486 (0.918)	65	467078			0.00- 30.00	33.06
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.922)	43	1173219	7.85809	7.858	80.00- 120.00	100.00
12.541	12.541 (0.922)	42	166314			0.00- 30.00	14.18
12.541	12.541 (0.922)	86	104903			0.00- 30.00	8.94
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.284	13.284 (0.976)	98	401444	7.92651	7.926	80.00- 120.00	100.00
13.284	13.284 (0.976)	61	1060073			0.00- 30.00	264.06
13.284	13.284 (0.976)	96	595435			124.21- 184.21	148.32
37 2-Butanone					CAS #: 78-93-3		
13.284	13.284 (0.976)	72	316402	7.98948	7.989	80.00- 120.00	100.00
13.284	13.284 (0.976)	43	1622433			0.00- 30.00	512.78
13.284	13.284 (0.976)	57	137839			0.00- 30.00	43.56
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (1.000)	42	849618	8.92904	8.929	80.00- 120.00	100.00
13.605	13.605 (1.000)	71	271397			0.00- 30.00	31.94
13.605	13.605 (1.000)	72	290934			0.00- 30.00	34.24
40 Chloroform					CAS #: 67-66-3		
13.667	13.666 (1.005)	83	1577539	8.90669	8.907	80.00- 120.00	100.00
13.667	13.666 (1.005)	85	1051342			0.00- 30.00	66.64
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.020)	84	869872	7.65860	7.659	80.00- 120.00	100.00
13.882	13.882 (1.020)	56	1204234			0.00- 30.00	138.44
13.882	13.882 (1.020)	41	873619			0.00- 30.00	100.43
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.882	13.882 (1.020)	97	1890120	9.32956	9.330	80.00- 120.00	100.00
13.882	13.882 (1.020)	99	1248367			0.00- 30.00	66.05
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.036	14.036 (1.032)	119	1768584	11.7545	11.754	80.00- 120.00	100.00
14.036	14.036 (1.032)	117	1845601			0.00- 30.00	104.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.338	14.338 (0.965)	78	2022181	10.6130	10.613	80.00- 120.00	100.00
14.338	14.338 (0.965)	77	530099			0.00- 30.00	26.21
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.310	14.310 (1.052)	56	1214156	8.68843	8.688	80.00- 120.00	100.00
14.310	14.310 (1.052)	57	3243875			0.00- 30.00	267.17
14.310	14.310 (1.052)	41	1344740			0.00- 30.00	110.76
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.448	14.447 (0.972)	62	1555430	12.4838	12.484	80.00- 120.00	100.00
14.448	14.447 (0.972)	64	530319			0.00- 30.00	34.09
50 Heptane					CAS #: 142-82-5		
14.530	14.530 (0.978)	57	777144	10.8704	10.870	80.00- 120.00	100.00
14.530	14.530 (0.978)	100	241342			0.00- 30.00	31.05
14.530	14.530 (0.978)	43	1586627			0.00- 30.00	204.16
53 Trichloroethene					CAS #: 79-01-6		
15.216	15.216 (1.024)	130	810748	9.81560	9.816	80.00- 120.00	100.00
15.216	15.216 (1.024)	95	905774			0.00- 30.00	111.72
15.216	15.216 (1.024)	97	592144			0.00- 30.00	73.04
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.601	15.600 (1.050)	63	814255	10.2703	10.270	80.00- 120.00	100.00
15.601	15.600 (1.050)	62	586586			0.00- 30.00	72.04
15.601	15.600 (1.050)	41	861474			76.27- 136.27	105.80
55 1,4-Dioxane					CAS #: 123-91-1		
15.710	15.710 (1.057)	88	466038	8.33012	8.330	80.00- 120.00	100.00
15.710	15.710 (1.057)	58	438801			0.00- 30.00	94.16
15.710	15.710 (1.057)	57	168328			0.00- 30.00	36.12
56 Bromodichloromethane					CAS #: 75-27-4		
15.985	15.985 (1.076)	83	1710836	11.1218	11.122	80.00- 120.00	100.00
15.985	15.985 (1.076)	85	1111494			0.00- 30.00	64.97
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.702	16.702 (1.124)	75	922584	8.32604	8.326	80.00- 120.00	100.00
16.702	16.702 (1.124)	77	313763			0.00- 30.00	34.01
16.680	16.702 (1.123)	39	791222			54.46- 114.46	85.76
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.859	16.859 (1.135)	43	1904600	11.2427	11.243	80.00- 120.00	100.00
16.859	16.859 (1.135)	58	657187			0.00- 30.00	34.51
16.859	16.859 (1.135)	85	276452			0.00- 30.00	14.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.150	17.150 (1.154)	91	2246552	9.93881	9.939	80.00- 120.00	100.00
17.150	17.150 (1.154)	92	1407509			0.00- 30.00	62.65
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.531	17.531 (0.917)	75	1215160	9.40966	9.410	80.00- 120.00	100.00
17.531	17.531 (0.917)	77	409860			0.00- 30.00	33.73
17.531	17.531 (0.917)	39	913673			45.93- 105.93	75.19
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.818	17.818 (0.932)	97	876166	10.2268	10.227	80.00- 120.00	100.00
17.818	17.818 (0.932)	99	563457			0.00- 30.00	64.31
17.818	17.818 (0.932)	83	766639			55.68- 115.68	87.50
63 Tetrachloroethene					CAS #: 127-18-4		
17.906	17.905 (0.937)	166	1206983	10.6558	10.656	80.00- 120.00	100.00
17.906	17.905 (0.937)	129	945364			0.00- 30.00	78.32
17.906	17.905 (0.937)	131	922708			47.48- 107.48	76.45
64 2-Hexanone					CAS #: 591-78-6		
18.051	18.051 (0.944)	58	991693	9.29262	9.293	80.00- 120.00	100.00
18.051	18.051 (0.944)	43	2183713			0.00- 30.00	220.20
18.051	18.051 (0.944)	100	187499			0.00- 30.00	18.91
66 Dibromochloromethane					CAS #: 124-48-1		
18.343	18.343 (0.959)	129	1631009	11.7651	11.765	80.00- 120.00	100.00
18.343	18.343 (0.959)	127	1298830			0.00- 30.00	79.63
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.547	18.547 (0.970)	107	1402316	9.53712	9.537	80.00- 120.00	100.00
18.547	18.547 (0.970)	109	1297124			0.00- 30.00	92.50
69 Chlorobenzene					CAS #: 108-90-7		
19.141	19.141 (1.001)	112	2295479	9.59723	9.597	80.00- 120.00	100.00
19.141	19.141 (1.001)	114	807819			0.00- 30.00	35.19
19.141	19.141 (1.001)	77	1750340			44.27- 104.27	76.25
70 Ethyl Benzene					CAS #: 100-41-4		
19.214	19.213 (1.005)	106	1268129	9.35888	9.359	80.00- 120.00	100.00
19.214	19.213 (1.005)	91	3930044			0.00- 30.00	309.91
71 m,p-Xylene					CAS #: 108-38-3		
19.358	19.358 (1.013)	106	1639532	9.55919	9.559	80.00- 120.00	100.00
19.358	19.358 (1.013)	91	3364363			0.00- 30.00	205.20
72 o-Xylene					CAS #: 95-47-6		
19.888	19.888 (1.040)	106	1576257	9.19573	9.196	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.888	19.888 (1.040)	91	3389835			0.00- 30.00	215.06
73 Styrene					CAS #: 100-42-5		
19.912	19.912 (1.042)	104	2508586	9.53020	9.530	80.00- 120.00	100.00
19.912	19.912 (1.042)	78	1605479			0.00- 30.00	64.00
75 Bromoform					CAS #: 75-25-2		
20.201	20.201 (1.057)	173	1740432	12.1312	12.131	80.00- 120.00	100.00
20.201	20.201 (1.057)	171	956491			0.00- 30.00	54.96
76 Cumene					CAS #: 98-82-8		
20.298	20.297 (1.062)	105	4900293	10.1749	10.175	80.00- 120.00	100.00
20.298	20.297 (1.062)	120	1350925			0.00- 30.00	27.57
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.729	20.729 (1.084)	83	2992949	10.3519	10.352	80.00- 120.00	100.00
20.729	20.729 (1.084)	85	1976891			0.00- 30.00	66.05
80 Propylbenzene					CAS #: 103-65-1		
20.781	20.780 (1.087)	91	6653357	10.6678	10.668	80.00- 120.00	100.00
20.781	20.780 (1.087)	120	1552658			0.00- 30.00	23.34
82 4-Ethyltoluene					CAS #: 622-96-8		
20.910	20.909 (1.094)	105	6098687	10.0239	10.024	80.00- 120.00	100.00
20.910	20.909 (1.094)	120	1979320			0.00- 30.00	32.45
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
20.987	20.987 (1.098)	105	4774203	10.3205	10.320	80.00- 120.00	100.00
20.987	20.987 (1.098)	120	2349964			0.00- 30.00	49.22
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.425	21.425 (1.121)	105	4691122	10.0360	10.036	80.00- 120.00	100.00
21.425	21.425 (1.121)	120	2193205			0.00- 30.00	46.75
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.812	21.812 (1.141)	146	3126686	9.82145	9.821	80.00- 120.00	100.00
21.812	21.812 (1.141)	148	2059457			0.00- 30.00	65.87
21.812	21.812 (1.141)	111	1471461			0.00- 30.00	47.06
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.915	21.915 (1.146)	146	3248030	10.0499	10.050	80.00- 120.00	100.00
21.915	21.915 (1.146)	148	2102852			0.00- 30.00	64.74
21.915	21.915 (1.146)	111	1407569			0.00- 30.00	43.34
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.044	22.044 (1.153)	91	3860602	9.93557	9.936	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.044	22.044 (1.153)	126	801837			0.00- 30.00	20.77
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.354	22.353 (1.169)	146	3046451	10.0562	10.056	80.00- 120.00	100.00
22.354	22.353 (1.169)	148	1981688			34.60- 94.60	65.05
22.354	22.353 (1.169)	111	1459017			17.99- 77.99	47.89
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.107	24.107 (1.261)	180	2365295	11.7837	11.784	80.00- 120.00	100.00
24.107	24.107 (1.261)	182	2222662			0.00- 30.00	93.97
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.184	24.184 (1.265)	225	1728242	10.0222	10.022	80.00- 120.00	100.00
24.184	24.184 (1.265)	223	1118055			0.00- 30.00	64.69
99 Naphthalene					CAS #: 91-20-3		
24.416	24.416 (1.277)	128	3661131	10.3415	10.342	80.00- 120.00	100.00
24.416	24.416 (1.277)	127	551557			0.00- 30.00	15.07
179 Butane					CAS #: 106-97-8		
6.737	6.736 (0.495)	58	245711	10.6054	10.605	80.00- 120.00	100.00
6.754	6.736 (0.496)	43	1746419			0.00- 30.00	710.76
11 Isopentane					CAS #: 78-78-4		
8.736	8.736 (0.642)	57	853271	11.4959	11.496	80.00- 120.00	100.00
8.736	8.736 (0.642)	43	1245569			0.00- 30.00	145.98
8.736	8.736 (0.642)	42	1123997			0.00- 30.00	131.73
167 Methylcyclohexane					CAS #: 108-87-2		
15.408	15.408 (1.133)	83	1169910	7.73167	7.732	80.00- 120.00	100.00
15.408	15.408 (1.133)	98	582695			0.00- 30.00	49.81
15.408	15.408 (1.133)	55	1345524			0.00- 30.00	115.01

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052003.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: nk
Method File: /chem/msdz.i/20May2008.b/t14l0422c.m
Misc Info: 25ppbv -> 10ppbv

Calibration Date: 20-MAY-2008
Calibration Time: 09:55
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	457449	274469	640429	453023	-0.97
52 1,4-Difluorobenze	1351567	810940	1892194	1388668	2.75
68 Chlorobenzene-d5	1715015	1029009	2401021	1681428	-1.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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/msdz.i/20May2008.b/z052003.d

Date : 20-MAY-2008 10:40

Client ID: LCS-1

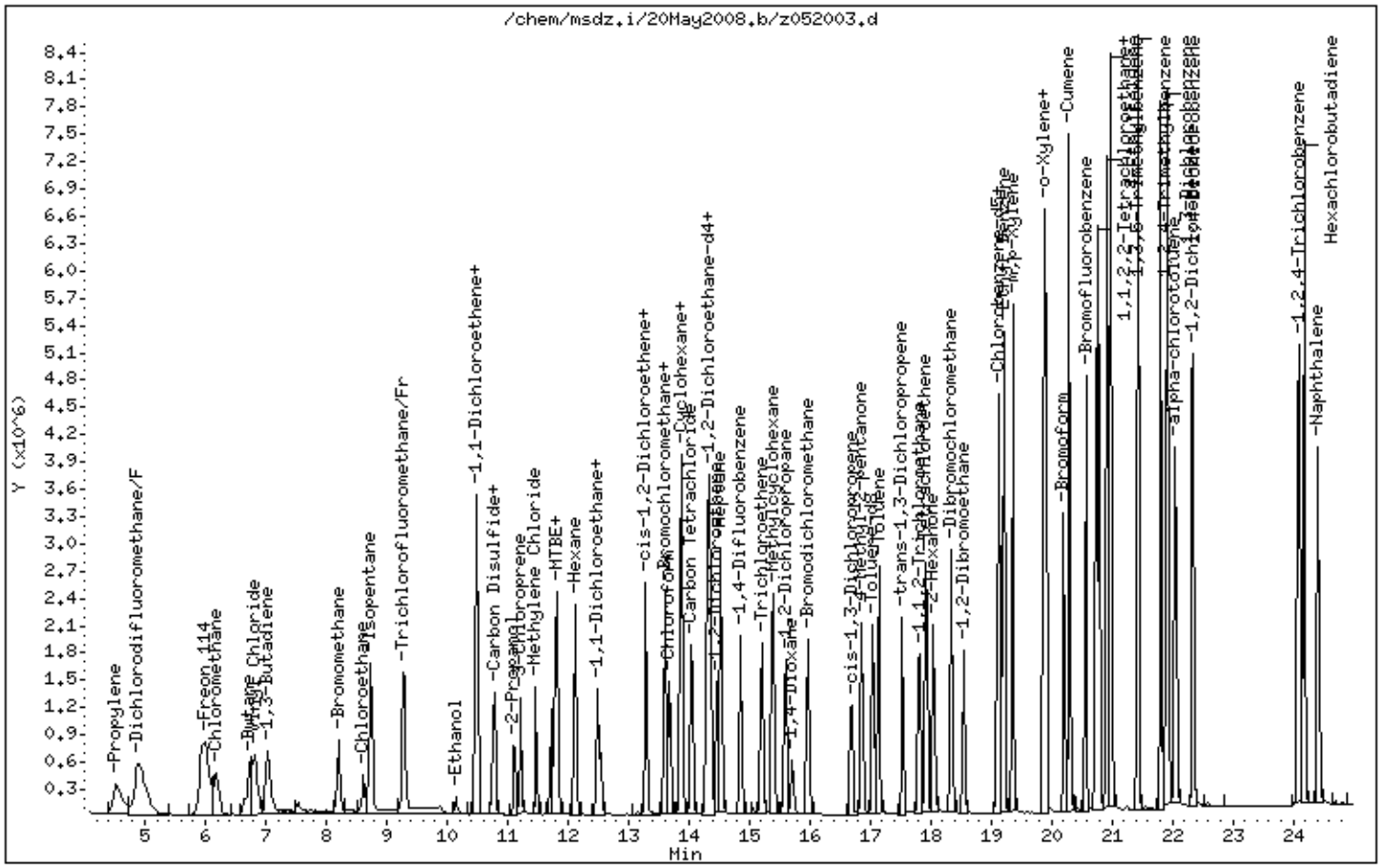
Instrument: msdz.i

Sample Info: 200mL #1541-52A

Operator: nk

Column phase: RTx-624

Column diameter: 0.32



MSD-Z

Logbook #: 1653

0195

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m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	33.83
75	30.0 – 60.0% of mass 95	59.58
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	8.25
173	Less than 2.0% of mass 174	(1.10)[1]
174	50.0 – 100% of mass 95	74.01
175	5.0 – 9.0% of mass 174	(8.80)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.63)[1]
177	5.0 – 9.0% of mass 176	(8.03)[2]

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

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

BFB Injection Date: 2 5/20/08

BFB Injection Time: 0919

BFB File ID: 2052001

Tekmar Purge Flow: —

Vacuum: 9.0 X10-6

IS/S Std.#:	152111 – 152	Exp. Date: 8-6-08
BCM	457449	
1,4-DFB	1351567	
CB-d5	1715015	

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

Verify 176/174 m/z Ratio: 1356461 / 1403733 %D = 96.63% **NOAH Cart #:** NA **File #:** NA

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1561330\ )}{(\ 1351567\ )} \times \frac{(\ 10.0\ )}{(\ 1.04534\ )_{1.05765}} = 10.922$

NK 5/20/08 *Reported Result* 10.922

File ID:	2052002
Compound:	Toluene-d8
Initials:	NK

Method: TJ1204220.d

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	2052001	BFB Tune check	1476 277	5psig	2.0ml	1.0	NK	5-20-8	0919	NK	
2	✓	2052002	CCV #1541-95A	25ppbv → 10ppbv		200ml	1.0	NK	5-20-08	0955	NK	
3	✓	2052003	LCS #1541-52A	25ppbv → 10ppbv		200ml	1.0	NK	5-20-08	1040	NK	
4	✓	2052004	Lab blank	3483	Humid	500ml	1.0	NK	5-20-08	1154	NK	bad bottle.
5	X	2052005	0805416 A-01A	00338	0.0"Hg 5psig	50ml	1.34	NK	5-20-08	1242	NK	
6	✓	2052006	0805416 A-01A	00388	0.0"Hg 5psig	500ml	1.34	NK	5-20-08	1347	NK	
7	✓	2052007	0805300A-04A	5779	7.0"Hg 5psig	500ml	1.75	NK	5-20-08	1449	KR	

Date

MSD-Z

@ Air Toxics Ltd.

Logbook #: 1653

0196

8	✓	Z052008	08052588A-01A	35553	25"Hg/15psi	500mL	2.29	KR	5-30-08	1548	KR		
9	✓	09	-02A	34163	30"Hg/15psi	500mL	2.24	KR		1630	KR		
10	✓	10	-03A	35611	25"Hg/15psi	500mL	2.20	KR		1728	KR		
11	✓	11	-03AA	↓	↓	↓	↓	KR		1833	KR		
12	✓	12	-04A	12350	30"Hg/15psi	500mL	2.24	KR		1911	KR		
13	✓	13	-05A	11444	35"Hg/15psi	500mL	2.29	KR		2003	KR		
14	✓	14	-06A	1480	25"Hg/15psi	500mL	2.20	KR		2046	KR		
15	✓	15	-07A	34659	40"Hg/15psi	500mL	2.33	KR		2124	KR		
16	✓	16	-08A	33367	40"Hg/15psi	500mL	2.33	KR		2208	KR		
17	✓	17	-09A	2124	25"Hg/15psi	500mL	2.20	KR		2352	CBI		
18	✓	18	0805234-01A	37244	60"Hg-5sec		1.68	CB		234	CBI		
19	✓	19	↓ -02A	34731	↓		↓		5-21-08	0029	CBI		
20	✓	20	0805371-01A	14423	70"Hg-5sec		1.78			0115	CBI		
21	✓	21	↓ -02A	9568	↓		↓			0151	CBI		
22	✓	22	0805242-01A	35988	65"Hg-5sec		1.71			0233	CBI		
23	X	23	-02A	4430	↓		↓			0312	CBI		IS ↓
24	X	24	-03A	14118	70"Hg-5sec	↓	1.75	↓	↓	0350	CBI	↓	IS ↓
25	-												
26													
27													
28													
29													
30													
31													

Comments:

Alice

5/21/08
Date

Air Toxics Ltd.

Data file : /var/chem/msdz.i/22Apr2008.b/z042209.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 22-APR-2008 14:29
Operator : sjr Inst ID: msdz.i
Smp Info : 2uL #1476-277;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdz.i/22Apr2008.b/bfb60.m
Meth Date : 22-Apr-2008 08:25 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.890	5.937	-0.047	95	1832106			100.00- 100.00	100.00
5.890	5.937	-0.047	50	484006			15.00- 40.00	26.42
5.890	5.937	-0.047	75	1000134			30.00- 60.00	54.59
5.890	5.937	-0.047	96	148450			5.00- 9.00	8.10
5.890	5.937	-0.047	173	0			0.00- 2.00	0.00
5.890	5.937	-0.047	174	1382722			50.00- 100.00	75.47
5.890	5.937	-0.047	175	123146			5.00- 9.00	8.91
5.890	5.937	-0.047	176	1340226			95.00- 101.00	96.93
5.890	5.937	-0.047	177	107942			5.00- 9.00	8.05

Data File: /var/chem/msdz.i/22Apr2008.b/z042209.d

Date : 22-APR-2008 14:29

Client ID: BFB

Instrument: msdz.i

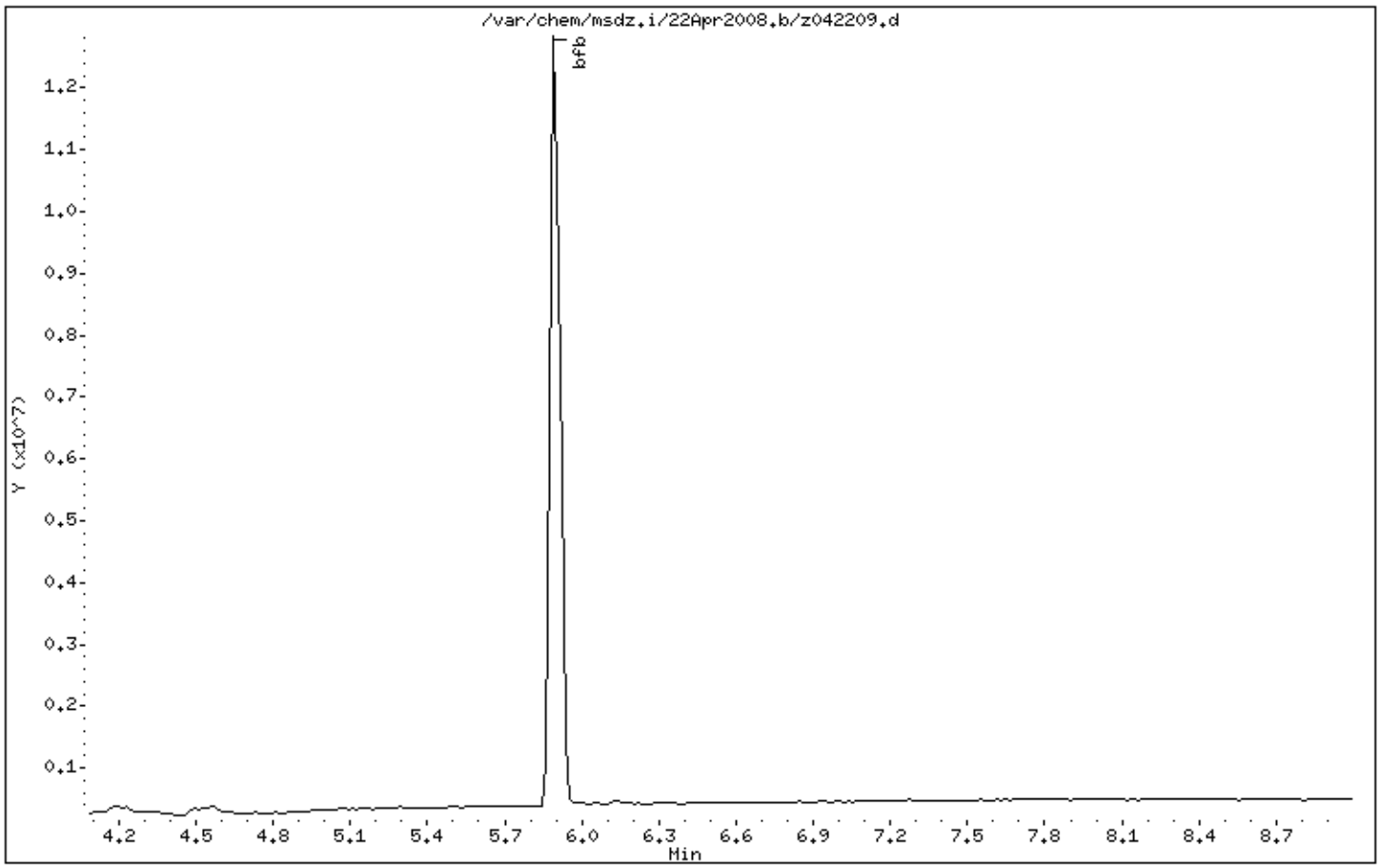
Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdz.i/22Apr2008.b/z042209.d

Date : 22-APR-2008 14:29

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

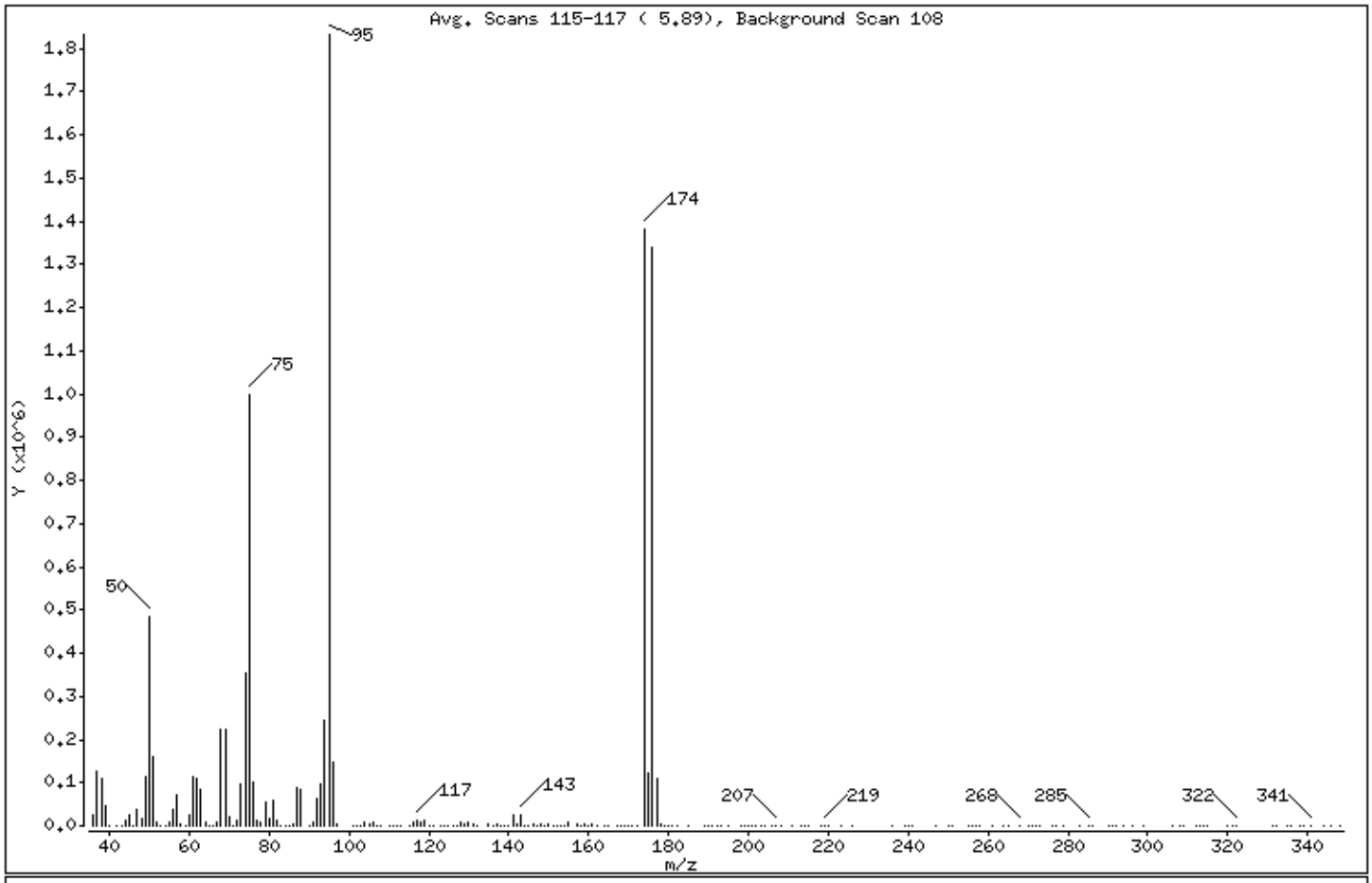
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.42
75	30.00 - 60.00% of mass 95	54.59
96	5.00 - 9.00% of mass 95	8.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	75.47
175	5.00 - 9.00% of mass 174	6.72 (8.91)
176	95.00 - 101.00% of mass 174	73.15 (96.93)
177	5.00 - 9.00% of mass 176	5.89 (8.05)

Date : 22-APR-2008 14:29

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00

Data File: z042209.d
Spectrum: Avg. Scans 115-117 (5.89), Background Scan 108
Location of Maximum: 95.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	24472	91.00	8223	152.00	1195	236.00	250
37.00	125728	92.00	63768	153.00	1805	239.00	78
38.00	109920	93.00	97000	154.00	1877	240.00	181
39.00	45792	94.00	244736	155.00	6410	241.00	112
40.00	1542	95.00	1831936	157.00	4534	247.00	167
42.00	473	96.00	148416	158.00	1066	250.00	177
43.00	1181	97.00	5395	159.00	2748	251.00	33
44.00	13791	101.00	163	160.00	221	255.00	573
45.00	24496	102.00	24	161.00	3278	256.00	278
46.00	1368	103.00	993	162.00	275	257.00	327
47.00	39736	104.00	9470	164.00	270	258.00	171
48.00	18552	105.00	2814	165.00	411	261.00	6
49.00	112792	106.00	8742	167.00	702	264.00	122
50.00	483968	107.00	2101	168.00	129	265.00	19
51.00	161344	108.00	281	169.00	320	268.00	817
52.00	8699	110.00	1909	170.00	537	270.00	372
53.00	345	111.00	1735	171.00	722	271.00	315
54.00	98	112.00	1039	172.00	929	272.00	6
55.00	7751	113.00	1991	174.00	1382400	273.00	261
56.00	38968	115.00	1929	175.00	123144	276.00	111
57.00	71248	116.00	7319	176.00	1339904	277.00	180
58.00	3678	117.00	12986	177.00	107936	279.00	180
59.00	1049	118.00	8754	178.00	4480	283.00	6
60.00	26064	119.00	11626	179.00	265	285.00	611
61.00	114136	120.00	385	180.00	242	286.00	211
62.00	111104	121.00	227	181.00	272	290.00	250
63.00	85488	123.00	897	182.00	44	291.00	89
64.00	8505	124.00	1368	185.00	147	292.00	63
65.00	734	125.00	1276	189.00	27	294.00	36
66.00	46	126.00	617	190.00	166	296.00	168
67.00	6725	127.00	1053	191.00	1278	299.00	154
68.00	224512	128.00	8290	192.00	312	306.00	217
69.00	221568	129.00	3652	193.00	206	308.00	369
70.00	20216	130.00	8998	195.00	122	309.00	118
71.00	390	131.00	3269	198.00	69	312.00	175

Date : 22-APR-2008 14:29

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00

Data File: z042209.d
Spectrum: Avg. Scans 115-117 (5.89), Background Scan 108
Location of Maximum: 95.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	13597	132.00	728	199.00	36	313.00	159
73.00	95864	135.00	4360	200.00	91	314.00	144
74.00	352704	136.00	496	201.00	238	315.00	71
75.00	1000128	137.00	4574	202.00	197	320.00	177
76.00	100888	138.00	193	203.00	60	321.00	76
77.00	14040	139.00	500	204.00	82	322.00	380
78.00	9882	140.00	2028	206.00	474	331.00	2
79.00	54848	141.00	24296	207.00	709	332.00	260
80.00	17688	142.00	3178	208.00	707	335.00	152
81.00	58760	143.00	24872	211.00	102	336.00	73
82.00	12359	144.00	1158	213.00	96	338.00	83
83.00	1512	145.00	1622	214.00	110	339.00	183
84.00	580	146.00	3785	215.00	71	341.00	523
85.00	129	147.00	1771	218.00	629	344.00	389
86.00	2726	148.00	5891	219.00	370	346.00	224
87.00	88480	149.00	1441	220.00	75	348.00	89
88.00	83784	150.00	3090	223.00	360		
90.00	92	151.00	234	226.00	67		

Air Toxics Ltd.

Data file : /var/chem/msdz.i/29Apr2008.b/z042901.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 29-APR-2008 09:07
Operator : sjr Inst ID: msdz.i
Smp Info : 2uL #1476-277;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdz.i/29Apr2008.b/bfb60.m
Meth Date : 29-Apr-2008 08:59 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.890	5.937	-0.047	95	1499648			100.00- 100.00	100.00
5.890	5.937	-0.047	50	430539			15.00- 40.00	28.71
5.890	5.937	-0.047	75	842901			30.00- 60.00	56.21
5.890	5.937	-0.047	96	120505			5.00- 9.00	8.04
5.890	5.937	-0.047	173	12359			0.00- 2.00	1.05
5.890	5.937	-0.047	174	1173781			50.00- 100.00	78.27
5.890	5.937	-0.047	175	104218			5.00- 9.00	8.88
5.890	5.937	-0.047	176	1136797			95.00- 101.00	96.85
5.890	5.937	-0.047	177	90196			5.00- 9.00	7.93

Data File: /chem/msdz.i/29Apr2008.b/z042901.d

Date : 29-APR-2008 09:07

Client ID: BFB

Instrument: msdz.i

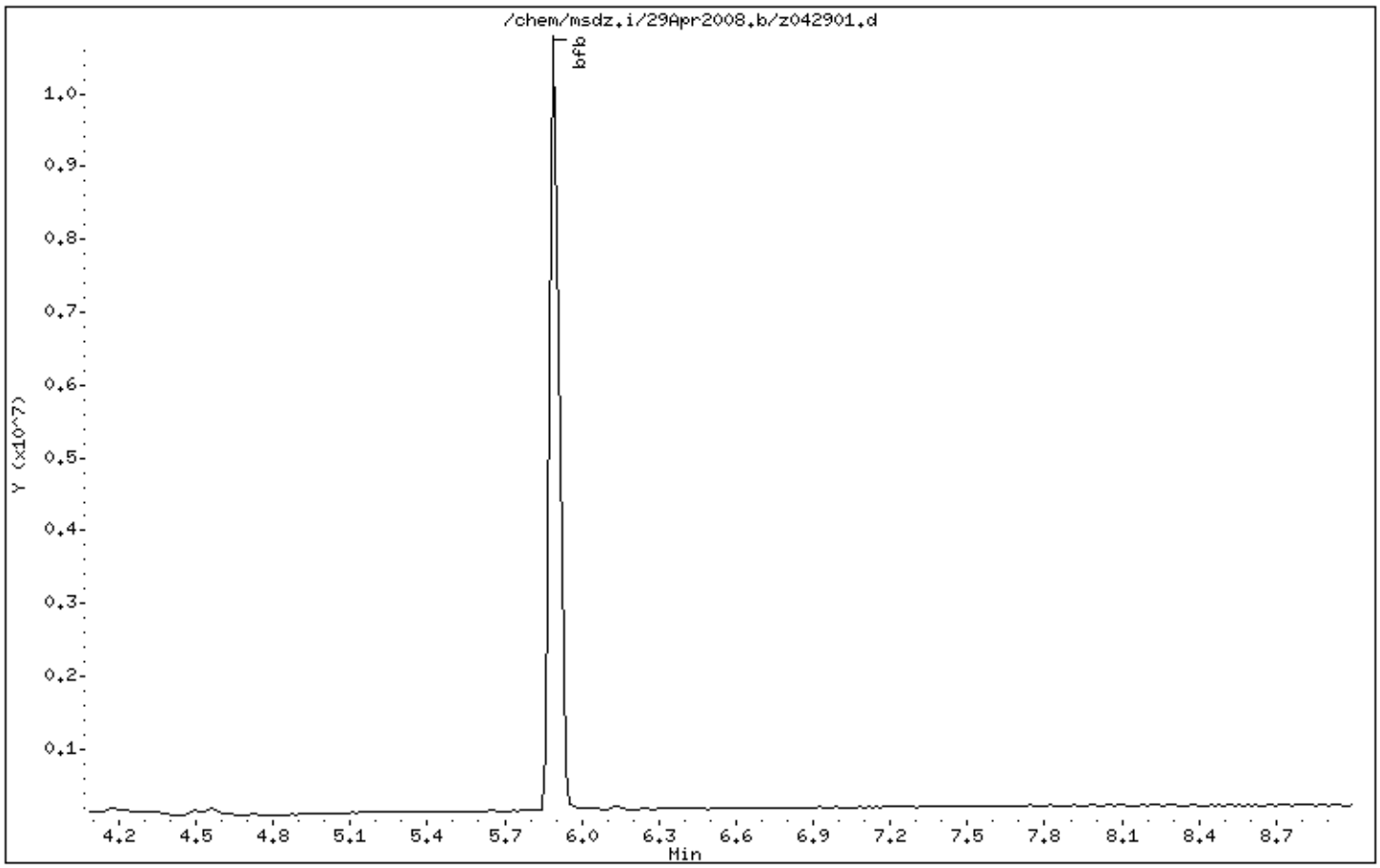
Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00



Data File: /chem/msdz.i/29Apr2008.b/z042901.d

Date : 29-APR-2008 09:07

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

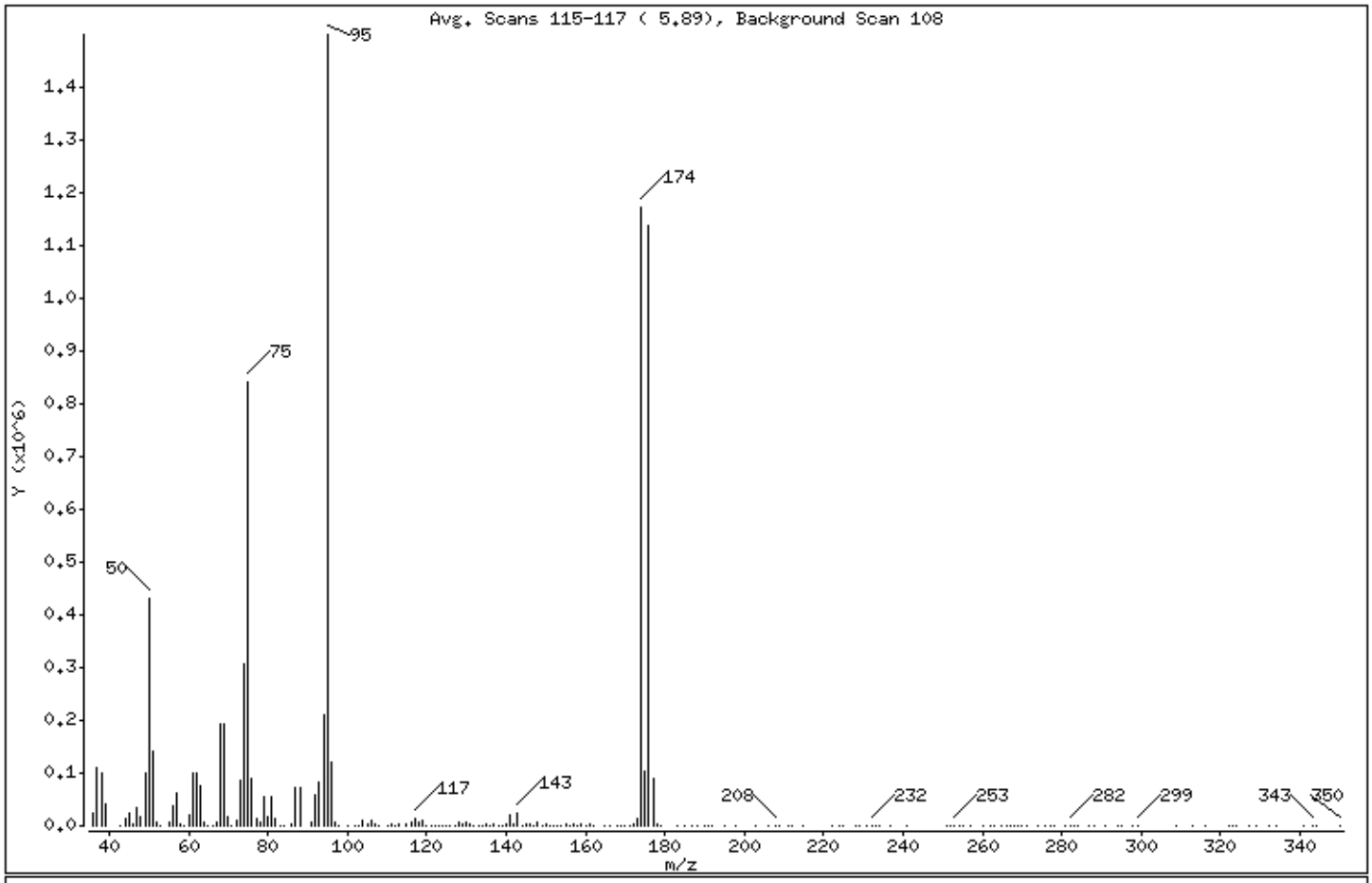
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.71
75	30.00 - 60.00% of mass 95	56.21
96	5.00 - 9.00% of mass 95	8.04
173	Less than 2.00% of mass 174	0.82 (1.05)
174	50.00 - 100.00% of mass 95	78.27
175	5.00 - 9.00% of mass 174	6.95 (8.88)
176	95.00 - 101.00% of mass 174	75.80 (96.85)
177	5.00 - 9.00% of mass 176	6.01 (7.93)

Data File: /chem/msdz.i/29Apr2008.b/z042901.d

Date : 29-APR-2008 09:07

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z042901.d
Spectrum: Avg. Scans 115-117 (5.89), Background Scan 108
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	22752	94.00	208832	149.00	1439	233.00	103
37.00	111944	95.00	1499648	150.00	2653	234.00	67
38.00	101064	96.00	120504	151.00	385	237.00	74
39.00	40440	97.00	5222	152.00	1090	241.00	258
43.00	1196	98.00	28	153.00	1621	251.00	48
44.00	13738	100.00	188	154.00	1486	252.00	149
45.00	23544	102.00	376	155.00	5120	253.00	1208
46.00	1773	103.00	1181	156.00	1578	254.00	248
47.00	33816	104.00	9651	157.00	3479	255.00	266
48.00	16392	105.00	3202	158.00	1380	257.00	105
49.00	99304	106.00	9664	159.00	2997	260.00	18
50.00	430528	107.00	1894	160.00	319	262.00	173
51.00	141312	108.00	476	161.00	2677	263.00	159
52.00	6837	110.00	1372	162.00	321	265.00	35
53.00	278	111.00	2201	165.00	135	266.00	233
55.00	6955	112.00	1620	166.00	441	267.00	522
56.00	36800	113.00	1768	168.00	81	268.00	324
57.00	63392	115.00	1835	169.00	168	269.00	439
58.00	2776	116.00	7678	170.00	401	270.00	217
59.00	88	117.00	12605	171.00	414	271.00	72
60.00	22056	118.00	8503	172.00	2333	274.00	81
61.00	99256	119.00	9983	173.00	12359	276.00	198
62.00	99056	120.00	456	174.00	1173504	277.00	89
63.00	74768	121.00	537	175.00	104216	278.00	81
64.00	8103	122.00	714	176.00	1136640	281.00	432
65.00	1610	123.00	827	177.00	90192	282.00	632
66.00	119	124.00	1323	178.00	3030	283.00	116
67.00	5530	125.00	592	179.00	133	284.00	48
68.00	194304	126.00	978	183.00	78	287.00	77
69.00	191744	127.00	35	185.00	100	288.00	71
70.00	17880	128.00	7010	187.00	85	291.00	76
71.00	71	129.00	4154	188.00	97	294.00	174
72.00	11836	130.00	7193	190.00	276	295.00	68
73.00	84696	131.00	3061	191.00	698	298.00	91
74.00	306560	132.00	340	192.00	200	299.00	121

Date : 29-APR-2008 09:07

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00

Data File: z042901.d
Spectrum: Avg. Scans 115-117 (5.89), Background Scan 108
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	842880	133.00	824	195.00	190	309.00	68
76.00	88160	134.00	543	198.00	91	313.00	107
77.00	12388	135.00	4560	203.00	98	316.00	67
78.00	8195	136.00	533	206.00	137	322.00	119
79.00	54088	137.00	4644	208.00	1045	323.00	81
80.00	16424	138.00	330	209.00	273	324.00	68
81.00	55896	139.00	1033	211.00	295	327.00	180
82.00	12410	140.00	1873	212.00	74	329.00	233
83.00	1676	141.00	21992	215.00	70	332.00	72
84.00	66	142.00	2969	222.00	164	334.00	128
86.00	2478	143.00	23008	224.00	70	341.00	111
87.00	73232	144.00	1635	225.00	13	343.00	354
88.00	70984	145.00	2440	228.00	69	344.00	240
91.00	7477	146.00	2858	229.00	117	350.00	90
92.00	58104	147.00	1525	231.00	69		
93.00	81904	148.00	5441	232.00	280		

Air Toxics Ltd.

Data file : /var/chem/msdz.i/08May2008.b/z050801.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 08-MAY-2008 09:00
Operator : sjr Inst ID: msdz.i
Smp Info : 2uL #1476-277;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdz.i/08May2008.b/bfb60.m
Meth Date : 08-May-2008 08:52 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.890	5.937	-0.047	95	1249972			100.00- 100.00	100.00
5.890	5.937	-0.047	50	393575			15.00- 40.00	31.49
5.890	5.937	-0.047	75	726268			30.00- 60.00	58.10
5.890	5.937	-0.047	96	104765			5.00- 9.00	8.38
5.890	5.937	-0.047	173	10014			0.00- 2.00	1.06
5.890	5.937	-0.047	174	948906			50.00- 100.00	75.91
5.890	5.937	-0.047	175	83507			5.00- 9.00	8.80
5.890	5.937	-0.047	176	917750			95.00- 101.00	96.72
5.890	5.937	-0.047	177	73373			5.00- 9.00	7.99

Data File: /var/chem/msdz.i/08May2008.b/z050801.d

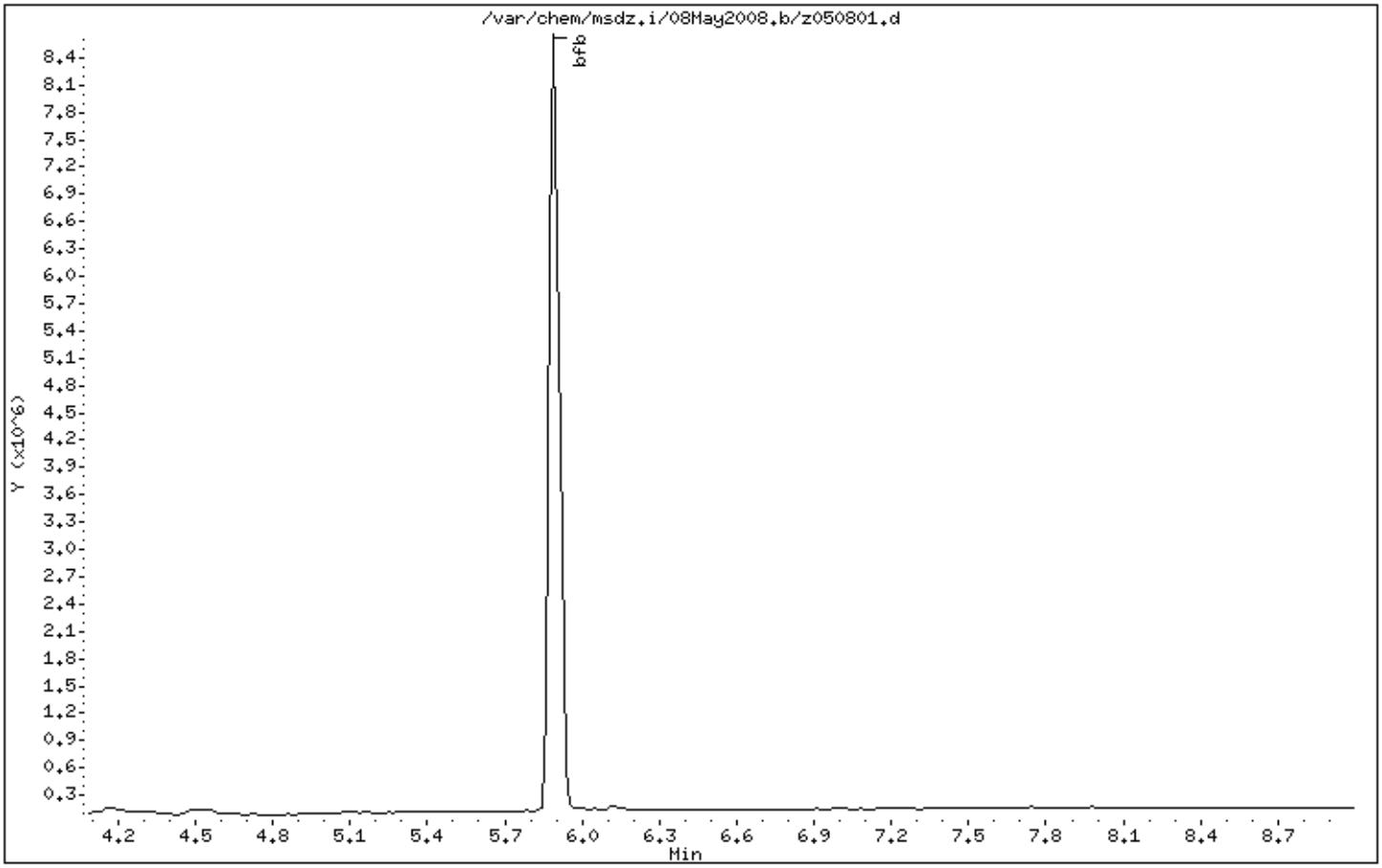
Date : 08-MAY-2008 09:00

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00



Data File: /var/chem/msdz.i/08May2008.b/z050801.d

Date : 08-MAY-2008 09:00

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

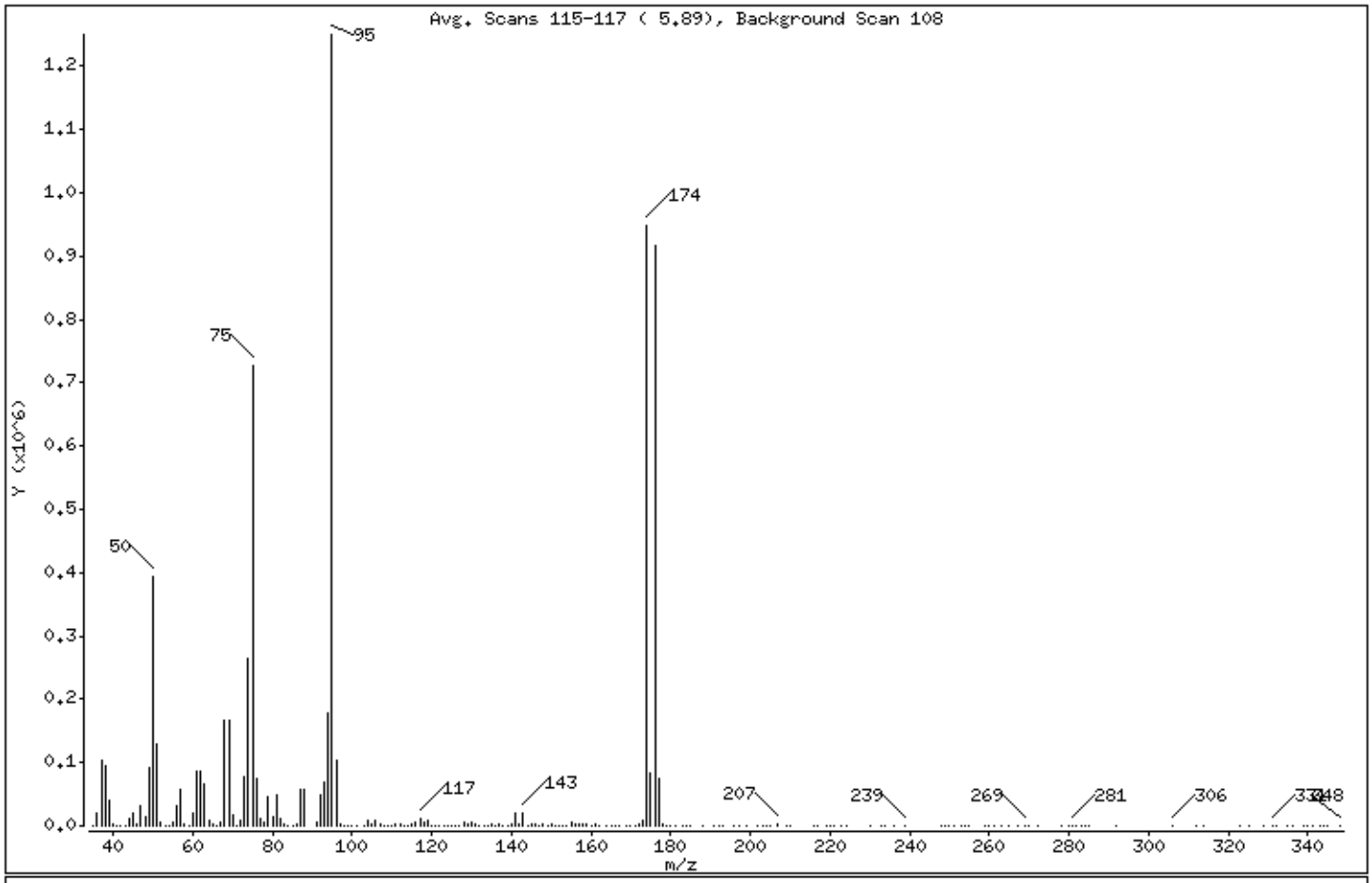
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	31.49
75	30.00 - 60.00% of mass 95	58.10
96	5.00 - 9.00% of mass 95	8.38
173	Less than 2.00% of mass 174	0.80 (1.06)
174	50.00 - 100.00% of mass 95	75.91
175	5.00 - 9.00% of mass 174	6.68 (8.80)
176	95.00 - 101.00% of mass 174	73.42 (96.72)
177	5.00 - 9.00% of mass 176	5.87 (7.99)

Data File: /var/chem/msdz.i/08May2008.b/z050801.d

Date : 08-MAY-2008 09:00

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z050801.d
Spectrum: Avg. Scans 115-117 (5.89), Background Scan 108
Location of Maximum: 95.00
Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	252	91.00	6742	146.00	2016	220.00	69
36.00	21200	92.00	48472	147.00	1309	221.00	97
37.00	104168	93.00	69080	148.00	4242	223.00	94
38.00	95448	94.00	176896	149.00	1331	224.00	89
39.00	40024	95.00	1249792	150.00	2214	230.00	71
40.00	1909	96.00	104760	151.00	196	233.00	72
41.00	463	97.00	3716	152.00	1125	234.00	79
42.00	309	98.00	364	153.00	1413	236.00	74
43.00	785	99.00	90	154.00	1366	239.00	381
44.00	12148	100.00	101	155.00	4382	248.00	71
45.00	21328	101.00	88	156.00	2359	249.00	153
46.00	1703	103.00	1003	157.00	3466	250.00	198
47.00	31504	104.00	7822	158.00	1870	251.00	268
48.00	15075	105.00	2694	159.00	2505	253.00	459
49.00	91624	106.00	8097	160.00	239	254.00	233
50.00	393536	107.00	1767	161.00	2129	255.00	31
51.00	128904	108.00	10	162.00	8	259.00	92
52.00	6618	109.00	189	164.00	79	260.00	99
53.00	652	110.00	1180	165.00	370	261.00	499
54.00	339	111.00	1705	166.00	93	263.00	181
55.00	6639	112.00	1634	167.00	135	265.00	178
56.00	31712	113.00	1408	169.00	244	267.00	451
57.00	58584	114.00	176	170.00	778	269.00	723
58.00	2551	115.00	2005	171.00	538	270.00	133
59.00	618	116.00	6684	172.00	3335	272.00	69
60.00	19176	117.00	11660	173.00	10014	278.00	75
61.00	87464	118.00	6598	174.00	948864	280.00	91
62.00	85632	119.00	9504	175.00	83504	281.00	685
63.00	65944	120.00	626	176.00	917696	282.00	18
64.00	7394	121.00	519	177.00	73368	283.00	40
65.00	2951	122.00	233	178.00	2205	284.00	105
66.00	235	123.00	701	179.00	9	285.00	84
67.00	5380	124.00	1218	180.00	67	292.00	78
68.00	167552	125.00	273	181.00	403	306.00	160
69.00	166208	126.00	725	183.00	156	312.00	100

Date : 08-MAY-2008 09:00

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00

Data File: z050801.d
Spectrum: Avg. Scans 115-117 (5.89), Background Scan 108
Location of Maximum: 95.00
Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	16243	127.00	587	184.00	157	314.00	79
71.00	683	128.00	6848	185.00	143	323.00	177
72.00	9783	129.00	3302	188.00	88	325.00	144
73.00	76144	130.00	6515	191.00	214	329.00	80
74.00	263040	131.00	2770	192.00	186	331.00	292
75.00	726208	132.00	591	193.00	357	332.00	93
76.00	75176	133.00	529	196.00	77	335.00	77
77.00	12703	134.00	589	197.00	108	336.00	92
78.00	6071	135.00	3721	199.00	111	339.00	87
79.00	46696	136.00	859	202.00	199	340.00	71
80.00	14479	137.00	4003	203.00	192	341.00	274
81.00	47776	138.00	202	204.00	261	343.00	143
82.00	10171	139.00	939	205.00	25	344.00	260
83.00	1508	140.00	1552	207.00	4226	345.00	9
84.00	179	141.00	18968	209.00	918	348.00	95
85.00	124	142.00	2908	210.00	168		
86.00	1695	143.00	19840	216.00	135		
87.00	58080	144.00	1222	217.00	200		
88.00	56344	145.00	2443	219.00	364		

Air Toxics Ltd.

Data file : /var/chem/msdz.i/20May2008.b/z052001.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 20-MAY-2008 09:19
Operator : nk Inst ID: msdz.i
Smp Info : 2uL #1476-277;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdz.i/20May2008.b/bfb60.m
Meth Date : 20-May-2008 09:11 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.905	5.937	-0.032	95	1896605			100.00- 100.00	100.00
5.905	5.937	-0.032	50	641587			15.00- 40.00	33.83
5.905	5.937	-0.032	75	1129956			30.00- 60.00	59.58
5.905	5.937	-0.032	96	156538			5.00- 9.00	8.25
5.905	5.937	-0.032	173	15389			0.00- 2.00	1.10
5.905	5.937	-0.032	174	1403733			50.00- 100.00	74.01
5.905	5.937	-0.032	175	123556			5.00- 9.00	8.80
5.905	5.937	-0.032	176	1356461			95.00- 101.00	96.63
5.905	5.937	-0.032	177	108862			5.00- 9.00	8.03

Data File: /var/chem/msdz.i/20May2008.b/z052001.d

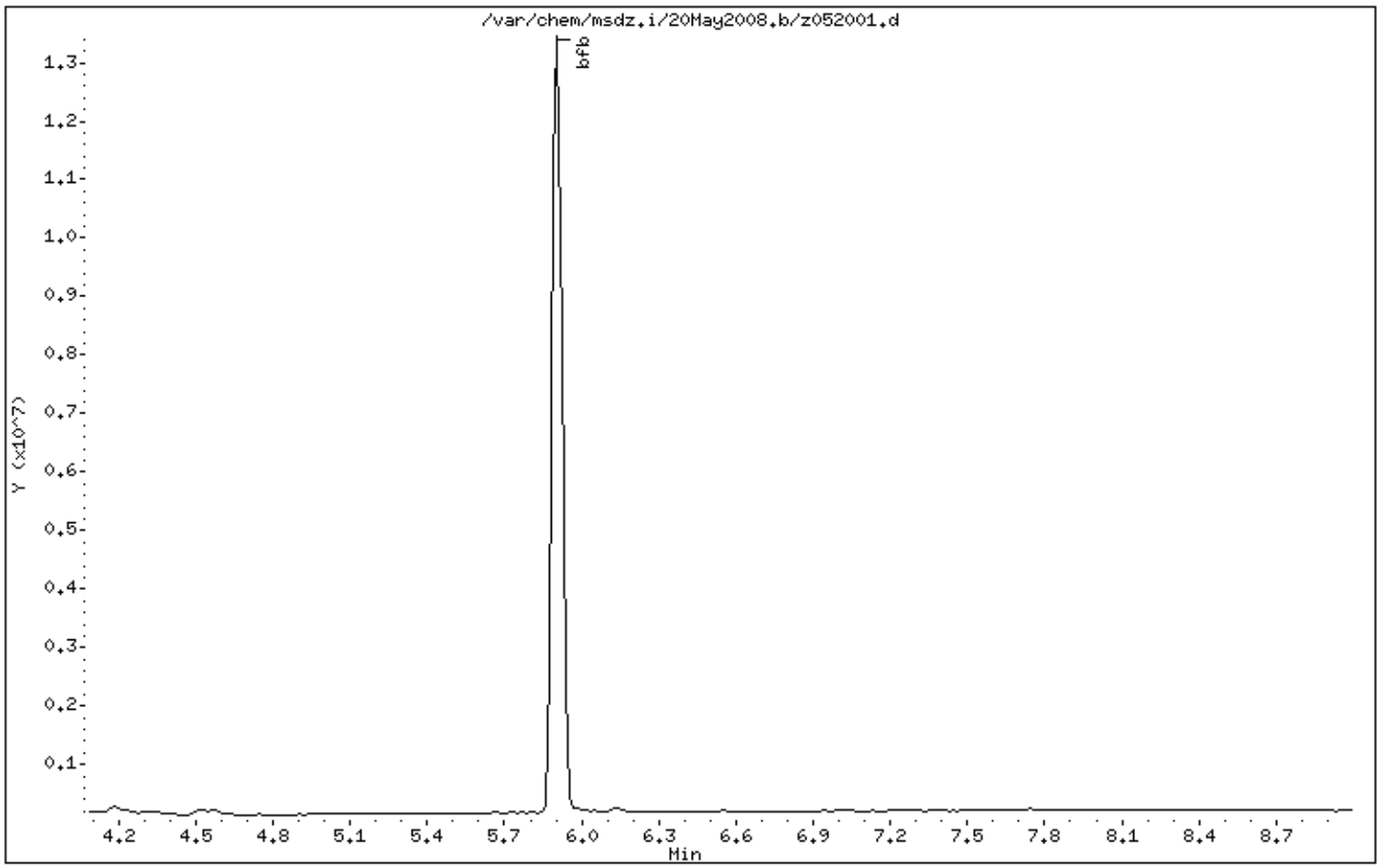
Date : 20-MAY-2008 09:19

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: nk

Column phase: Column diameter: 2.00



Data File: /var/chem/msdz.i/20May2008.b/z052001.d

Date : 20-MAY-2008 09:19

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

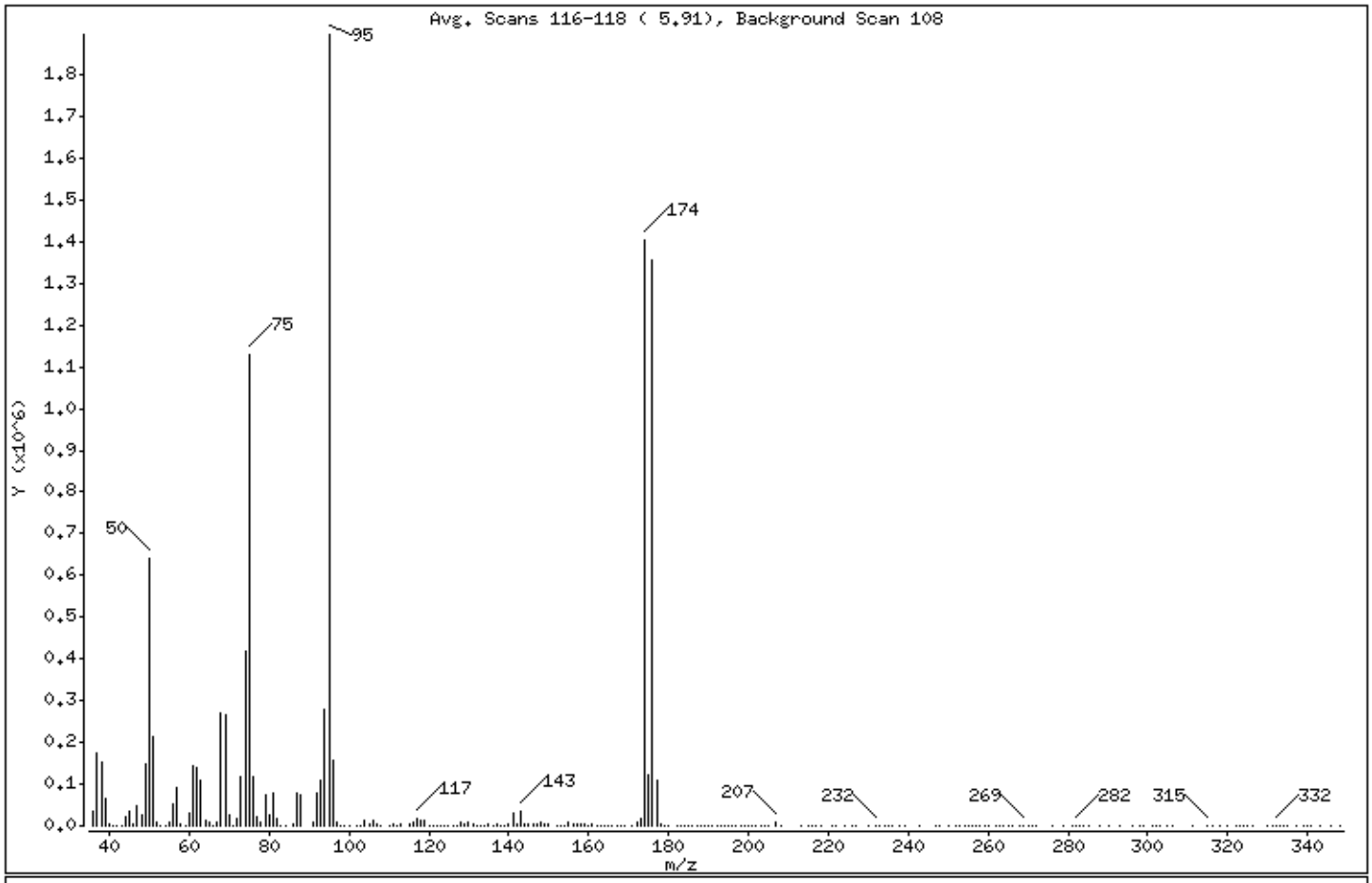
Volume Injected (uL): 1.0

Operator: nk

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	33.83
75	30.00 - 60.00% of mass 95	59.58
96	5.00 - 9.00% of mass 95	8.25
173	Less than 2.00% of mass 174	0.81 (1.10)
174	50.00 - 100.00% of mass 95	74.01
175	5.00 - 9.00% of mass 174	6.51 (8.80)
176	95.00 - 101.00% of mass 174	71.52 (96.63)
177	5.00 - 9.00% of mass 176	5.74 (8.03)

Date : 20-MAY-2008 09:19

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: nk

Column phase: Column diameter: 2.00

Data File: z052001.d
Spectrum: Avg. Scans 116-118 (5.91), Background Scan 108
Location of Maximum: 95.00
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	32960	102.00	205	167.00	245	253.00	718
37.00	173888	103.00	1712	168.00	271	254.00	291
38.00	154496	104.00	12424	169.00	156	255.00	122
39.00	65680	105.00	4095	171.00	1176	256.00	325
40.00	2684	106.00	12808	172.00	7905	257.00	68
41.00	1949	107.00	3464	173.00	15389	258.00	198
42.00	354	108.00	180	174.00	1403392	259.00	108
43.00	1144	110.00	1929	175.00	123552	260.00	129
44.00	20064	111.00	2992	176.00	1356288	262.00	54
45.00	33888	112.00	1901	177.00	108856	263.00	133
46.00	2566	113.00	2934	178.00	4601	264.00	72
47.00	46664	115.00	3343	179.00	946	265.00	331
48.00	24824	116.00	10486	180.00	255	266.00	25
49.00	149312	117.00	19472	182.00	21	268.00	341
50.00	641536	118.00	12015	183.00	136	269.00	1216
51.00	213056	119.00	14969	184.00	100	270.00	470
52.00	10300	120.00	1064	185.00	72	271.00	173
53.00	873	121.00	565	186.00	220	272.00	218
54.00	321	122.00	218	187.00	275	276.00	2
55.00	9338	123.00	1042	188.00	316	279.00	79
56.00	51024	124.00	1901	189.00	192	281.00	246
57.00	91208	125.00	1414	190.00	46	282.00	551
58.00	4551	126.00	637	191.00	905	283.00	12
59.00	711	127.00	583	192.00	712	284.00	163
60.00	29136	128.00	10325	193.00	1658	285.00	243
61.00	142208	129.00	5048	194.00	546	288.00	387
62.00	138240	130.00	9919	195.00	619	290.00	111
63.00	109976	131.00	4886	196.00	189	293.00	169
64.00	13356	132.00	644	197.00	142	296.00	79
65.00	8365	133.00	1535	198.00	125	298.00	185
66.00	1158	134.00	1157	199.00	162	299.00	166
67.00	7128	135.00	5143	200.00	73	301.00	81
68.00	268608	136.00	1030	201.00	88	302.00	89
69.00	265536	137.00	5741	202.00	166	303.00	76
70.00	25336	138.00	222	203.00	197	305.00	51

Date : 20-MAY-2008 09:19

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0 Operator: nk

Column phase: Column diameter: 2.00

Data File: z052001.d
Spectrum: Avg. Scans 116-118 (5.91), Background Scan 108
Location of Maximum: 95.00
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	1042	139.00	1377	204.00	217	306.00	94
72.00	16432	140.00	2324	205.00	24	311.00	161
73.00	117960	141.00	31176	207.00	9965	315.00	191
74.00	416576	142.00	3721	208.00	1669	316.00	145
75.00	1129472	143.00	34408	213.00	142	318.00	68
76.00	117944	144.00	2232	215.00	107	320.00	132
77.00	20192	145.00	3623	216.00	93	322.00	187
78.00	8945	146.00	2706	217.00	161	323.00	125
79.00	75968	147.00	3101	218.00	417	324.00	168
80.00	24096	148.00	7518	221.00	230	325.00	71
81.00	78496	149.00	2409	222.00	78	326.00	301
82.00	18680	150.00	2947	224.00	78	330.00	82
83.00	2095	152.00	1695	226.00	87	331.00	197
84.00	972	153.00	2142	227.00	167	332.00	331
86.00	2842	154.00	1968	230.00	264	333.00	200
87.00	79488	155.00	8308	232.00	439	334.00	50
88.00	76104	156.00	3656	233.00	220	335.00	299
91.00	9920	157.00	5743	234.00	205	337.00	72
92.00	76776	158.00	3244	235.00	222	339.00	80
93.00	110928	159.00	4293	236.00	424	340.00	176
94.00	277568	160.00	205	238.00	279	341.00	263
95.00	1896448	161.00	2914	239.00	126	343.00	126
96.00	156480	162.00	144	243.00	151	346.00	187
97.00	6620	163.00	1015	247.00	196	348.00	85
98.00	453	164.00	226	248.00	188		
99.00	215	165.00	497	250.00	296		
100.00	173	166.00	71	252.00	239		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0805371
# of pages (Including Cover): 1

5/29/2008

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

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

0219

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

Project Info:
P.O. #
Project # 061140 - 8 - 1703
Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:
☒ Normal
☐ Rush _____
Specify

Lab I.D.	Field Sample I.D.	Can #	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	DWAMS3	14123	5-8-08 545-1345	TO-15 + Naphthalene	-30	-8.5	
02A	UW AMS 5	9568	5-8-08 545-1345	TO-15 + Naphthalene	-30	-8	

Relinquished By: (Signature) Date/Time 5-8-08 1500
Received By: (Signature) Date/Time ATL 05-12-08 0850
Relinquished By: (Signature) Date/Time
Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time
Received By: (Signature) Date/Time

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

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	863184353232		NA	Good	Yes No None	080537 1

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0805371

Client

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

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 05/27/08
Date Completed: 5/23/08
Date Received: 5/12/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 711.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 3	Modified TO-15	5/8/2008	7.0 "Hg	$225.00
02A	UW AMS 5	Modified TO-15	5/8/2008	7.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (1) @ $50.00 each., Shipment 58428	$50.00
	6 Liter Summa Canister (2) @ $50.00 each., Shipment 58429	$100.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58428	$35.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 58429	$70.00
	Fuel Surcharge (3) @ $2.00 each.	$6.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
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 #: 0805371

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

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

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

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

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

A/R: 1,2-DCA ↑, Bromoform ↑ >40% in CCV

No hits for Bromoform in Samples No reason to qualify

M/Q: _____

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
NL 5/20/08	R: CTaylor 5-23-08	MD 5/23/08	
	T: _____		

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

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

Not Applicable