Air Toxics LTD.

Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-4A

INVENTORY SHEET

Work Order #: 0907124A

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	7/20/09
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
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WORK ORDER #: 0907124A

Work Order Summary

CLIENT:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706	**BILL TO:**	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706
PHONE:	208-389-1030	**P.O. #**	103P0333.005
FAX:		**PROJECT #**	103P0333.006 BMI Offsite
DATE RECEIVED:	07/07/2009	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/16/2009		

FRACTION #	NAME	TEST
01A	OFF03-070209	Modified TO-4A
04A	OFF04-070209	Modified TO-4A
05A	Lab Blank	Modified TO-4A
06A	LCS	Modified TO-4A

CERTIFIED BY: Linda L. Freeman DATE: 07/16/09

Laboratory Director

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

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LABORATORY NARRATIVE
Modified TO-4A
Tetra Tech
Workorder# 0907124A

Two PUF Cartridge samples were received on July 07, 2009. The laboratory performed analysis via Modified EPA Method TO-4A using GC/ECD. The PUF samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. Following the extraction, the solvent is switched to hexane and the extract concentrated. Analysis is carried out on a HP GC/ECD and second column confirmation is used to positively identify pesticide results. Duplicate extraction cannot be performed on PUF media, therefore duplicate results are derived from analyzing the extract twice.

Method modifications taken to run these samples include:

Requirement	***Method TO-4A***	***ATL Modifications***
Extraction Solvent	10 % Diethyl Ether in Hexane	DCM, exchanging to Hexane during the concentration step.
Reagent Blank	Set up extraction system without filter/PUF; reflux with solvent	No Reagent Blank is extracted. Reagent lots are certified as acceptable prior to use.
Initial Calibration Verification (ICV)	Second source standard analyzed after ICAL; recovery 85 - 115 %	Recovery limits are 85-115% for pesticides; 80-120% for PCBs.
PCB Quantitation	Requires a minimum of 5 peaks	Use 4 peaks for quantitation.
Frequency of Continuing Calibration Verification	Every 10 samples.	Every 20 samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The associated comprehensive data validation package provided at a later date shows the time of analysis in GMT in the raw data files. Due to software limitations the time cannot be adjusted. However, the time on the final PDF and EDD reports are provided in PST.

Sampling volume was supplied by the client. A sample volume of 82 m3 was assumed for all QC samples.

The recovery for Endrin Aldehyde in the LCS was outside the method specified control limits. Historically derived control limits for this compound indicate a trend toward low recovery from the PUF media. In house generated control limits for Endrin Aldehyde were used to evaluate recovery for PUF media. Endrin Aldehyde results are qualified as estimated values. All other LCS recoveries were within acceptance limits.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
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 detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
OFF03-070209	0907124A-01A	7/ 2/2009	7/ 7/2009	7/ 9/2009	7	7/14/2009	5	Good
OFF04-070209	0907124A-04A	7/ 2/2009	7/ 7/2009	7/ 9/2009	7	7/14/2009	5	Good
Lab Blank	0907124A-05A	NA	NA	7/ 9/2009	NA	7/14/2009	5	Good
LCS	0907124A-06A	NA	NA	7/ 9/2009	NA	7/14/2009	5	Good

Sample Results and Raw Data

Summary of Detected Compounds
MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: OFF03-070209

Lab ID#: 0907124A-01A

No Detections Were Found.

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Client Sample ID: OFF03-070209

Lab ID#: 0907124A-01A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071416**	**Date of Collection: 7/2/09 4:38:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/14/09 05:40 PM**
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0013	Not Detected	Not Detected
alpha-BHC	0.10	0.0013	Not Detected	Not Detected
beta-BHC	0.10	0.0013	Not Detected	Not Detected
delta-BHC	0.10	0.0013	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0013	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0013	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0013	Not Detected	Not Detected
4,4'-DDD	0.10	0.0013	Not Detected	Not Detected
4,4'-DDE	0.10	0.0013	Not Detected	Not Detected
4,4'-DDT	0.10	0.0013	Not Detected	Not Detected
Dieldrin	0.10	0.0013	Not Detected	Not Detected
Endosulfan I	0.10	0.0013	Not Detected	Not Detected
Endosulfan II	0.10	0.0013	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0013	Not Detected	Not Detected
Endrin	0.10	0.0013	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0013	Not Detected	Not Detected
Endrin Ketone	0.10	0.0013	Not Detected	Not Detected
Heptachlor	0.10	0.0013	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0013	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.013	Not Detected	Not Detected
Toxaphene	1.0	0.013	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.013	Not Detected	Not Detected
Aroclor-1221	1.0	0.013	Not Detected	Not Detected
Aroclor-1232	1.0	0.013	Not Detected	Not Detected
Aroclor-1248	1.0	0.013	Not Detected	Not Detected
Aroclor-1254	1.0	0.013	Not Detected	Not Detected
Aroclor-1260	1.0	0.013	Not Detected	Not Detected

Air Sample Volume(L): 78400

Aroclors are reported from file p071416a.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	78	60-120
Decachlorobiphenyl	72	60-120

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Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071416.d
Lab Smp Id: 0907124A-01A
Inj Date : 15-JUL-2009 00:40
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	6.012	6.011	(0.352)	8918142543	0.46941	0.4694
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 Endosulfan I	Compound Not Detected.					
18 DDE	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Endosulfan Sulfate	Compound Not Detected.					
	26 Methoxychlor	Compound Not Detected.					
	169 Mirex	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	15.408	15.404	(0.902)	5170202201	0.43135	0.4314
*	29 Decachlorodiphenyl Ether	17.079	17.076	(1.000)	19617505776	2.00000	

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PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071416a.d
Lab Smp Id: 0906124A-01A
Inj Date : 15-JUL-2009 00:40
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	6.012	6.009	(0.352)	7559987217	0.50149	0.501
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	15.408	15.403	(0.902)	4838910400	0.47785	0.478
*	39	Decachlorodiphenyl Ether	17.079	17.074	(1.000)	19335991955	2.00000	

Report Date: 15-Jul-2009 14:40

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071416.d
Lab Smp Id: 0907124A-01A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19850667168	9925333584	39701334336	19617505776	-1.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.08	16.58	17.58	17.08	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071416a.d
Lab Smp Id: 0906124A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	18648773486	9324386743	37297546971	19335991955	3.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.07	16.57	17.57	17.08	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 14:40

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907124A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4694	78.24	60-120
$ 28 DCB	0.6000	0.4314	71.89	60-120

Report Date: 15-Jul-2009 15:03

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0906124A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.501	83.58	60-120
$ 38 DCB	0.600	0.478	79.64	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071416.d

Date : 15-JUL-2009 00:40

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0016

Data File: /chem/gcp.i/14Jul2009.b/P071416a.d

Date : 15-JUL-2009 00:40

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0017

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071416b.d
Lab Smp Id: 0907124A-01A
Inj Date : 15-JUL-2009 00:40
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	5.833	5.831	(0.371)	3243689529	0.45901	0.4590
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 DDE	Compound Not Detected.					
18 Endosulfan I	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Methoxychlor	Compound Not Detected.					
	168 Mirex	Compound Not Detected.					
	26 Endosulfan Sulfate	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	14.385	14.381	(0.916)	2332985233	0.41338	0.4134
*	29 Decachlorodiphenyl Ether	15.705	15.701	(1.000)	8966626194	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071416ab.d
Lab Smp Id: 0906124A-01A
Inj Date : 15-JUL-2009 00:40
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	5.833	5.829	(0.371)	3143914855	0.50074	0.501
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	14.385	14.380	(0.916)	2399401108	0.49055	0.490
*	39	Decachlorodiphenyl Ether	15.705	15.699	(1.000)	9019399482	2.00000	

Report Date: 15-Jul-2009 15:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071416b.d
Lab Smp Id: 0907124A-01A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8415739331	4207869665	16831478662	8966626194	6.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 15:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071416ab.d
Lab Smp Id: 0906124A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8100028078	4050014039	16200056156	9019399482	11.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 15:02

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907124A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4590	76.50	60-120
$ 28 DCB	0.6000	0.4134	68.90	60-120

Report Date: 15-Jul-2009 15:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0906124A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.501	83.46	60-120
$ 38 DCB	0.600	0.490	81.76	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071416b.d

Page 1

Date : 15-JUL-2009 00:40

Client ID:

Instrument: gcp.i

Sample Info:

Operator: rn

Column phase:

Column diameter: 2.00

0026

Data File: /chem/gcp.i/14Jul2009.b/P071416ab.d

Date : 15-JUL-2009 00:40

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0027

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: OFF04-070209

Lab ID#: 0907124A-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
alpha-BHC	0.10	0.0012	0.17	0.0021
beta-BHC	0.10	0.0012	0.16	0.0019
gamma-BHC (Lindane)	0.10	0.0012	0.13	0.0016

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF04-070209

Lab ID#: 0907124A-04A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071417**	**Date of Collection: 7/2/09 4:07:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/14/09 06:07 PM**
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0012	Not Detected	Not Detected
alpha-BHC	0.10	0.0012	0.17	0.0021
beta-BHC	0.10	0.0012	0.16	0.0019
delta-BHC	0.10	0.0012	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0012	0.13	0.0016
alpha-Chlordane	0.10	0.0012	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0012	Not Detected	Not Detected
4,4'-DDD	0.10	0.0012	Not Detected	Not Detected
4,4'-DDE	0.10	0.0012	Not Detected	Not Detected
4,4'-DDT	0.10	0.0012	Not Detected	Not Detected
Dieldrin	0.10	0.0012	Not Detected	Not Detected
Endosulfan I	0.10	0.0012	Not Detected	Not Detected
Endosulfan II	0.10	0.0012	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0012	Not Detected	Not Detected
Endrin	0.10	0.0012	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0012	Not Detected	Not Detected
Endrin Ketone	0.10	0.0012	Not Detected	Not Detected
Heptachlor	0.10	0.0012	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0012	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.012	Not Detected	Not Detected
Toxaphene	1.0	0.012	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.012	Not Detected	Not Detected
Aroclor-1221	1.0	0.012	Not Detected	Not Detected
Aroclor-1232	1.0	0.012	Not Detected	Not Detected
Aroclor-1248	1.0	0.012	Not Detected	Not Detected
Aroclor-1254	1.0	0.012	Not Detected	Not Detected
Aroclor-1260	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 81400

Aroclors are reported from file p071417a.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	79	60-120
Decachlorobiphenyl	70	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071417.d
Lab Smp Id: 0907124A-04A
Inj Date : 15-JUL-2009 01:07
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	6.011	6.011	(0.352)	8911780896	0.47527	0.4753
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	7.000	7.000	(0.410)	4698363318	0.17414	0.1741
9 g-BHC	7.611	7.611	(0.446)	3276088358	0.13048	0.1305
10 b-BHC	7.755	7.755	(0.454)	1630141207	0.15758	0.1576
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 Endosulfan I	Compound Not Detected.					
18 DDE	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Endosulfan Sulfate	Compound Not Detected.					
	26 Methoxychlor	Compound Not Detected.					
	169 Mirex	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	15.407	15.404	(0.902)	5003588683	0.42297	0.4230
*	29 Decachlorodiphenyl Ether	17.079	17.076	(1.000)	19361836210	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071417a.d
Lab Smp Id: 0907124A-04A
Inj Date : 15-JUL-2009 01:07
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	6.011	6.009	(0.352)	7114239377	0.47966	0.480
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	15.407	15.403	(0.902)	4617664791	0.46347	0.463
*	39	Decachlorodiphenyl Ether	17.079	17.074	(1.000)	19024087991	2.00000	

Report Date: 15-Jul-2009 15:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071417.d
Lab Smp Id: 0907124A-04A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19850667168	9925333584	39701334336	19361836210	-2.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.08	16.58	17.58	17.08	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 15:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071417a.d
Lab Smp Id: 0907124A-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	18648773486	9324386743	37297546971	19024087991	2.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.07	16.57	17.57	17.08	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 15:10

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907124A-04A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4753	79.21	60-120
$ 28 DCB	0.6000	0.4230	70.49	60-120

Report Date: 15-Jul-2009 15:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907124A-04A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.480	79.94	60-120
$ 38 DCB	0.600	0.463	77.25	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071417.d

Date : 15-JUL-2009 01:07

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0038

Data File: /chem/gcp.i/14Jul2009.b/P071417a.d

Date : 15-JUL-2009 01:07

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0039

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071417b.d
Lab Smp Id: 0907124A-04A
Inj Date : 15-JUL-2009 01:07
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	5.833	5.831	(0.371)	3424987877	0.48528	0.4853
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	6.706	6.704	(0.427)	1720784154	0.17852	0.1785
9 g-BHC	7.229	7.225	(0.460)	985175045	0.10941	0.1094
10 b-BHC	7.369	7.368	(0.469)	379313044	0.10480	0.1048
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 DDE	Compound Not Detected.					
18 Endosulfan I	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Methoxychlor	Compound Not Detected.					
	168 Mirex	Compound Not Detected.					
	26 Endosulfan Sulfate	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	14.384	14.381	(0.916)	2260062765	0.40097	0.4010
*	29 Decachlorodiphenyl Ether	15.705	15.701	(1.000)	8955208142	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071417ab.d
Lab Smp Id: 0907124A-04A
Inj Date : 15-JUL-2009 01:07
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	5.833	5.829	(0.371)	3543552635	0.56844	0.568
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	14.384	14.380	(0.916)	2263978493	0.46619	0.466
*	39	Decachlorodiphenyl Ether	15.705	15.699	(1.000)	8955208142	2.00000	

Report Date: 15-Jul-2009 15:11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071417b.d
Lab Smp Id: 0907124A-04A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8415739331	4207869665	16831478662	8955208142	6.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 15:13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071417ab.d
Lab Smp Id: 0907124A-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8100028078	4050014039	16200056156	8955208142	10.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 15:11

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907124A-04A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4853	80.88	60-120
$ 28 DCB	0.6000	0.4010	66.83	60-120

Report Date: 15-Jul-2009 15:13

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907124A-04A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.568	94.74	60-120
$ 38 DCB	0.600	0.466	77.70	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071417b.d

Date : 15-JUL-2009 01:07

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0048

Data File: /chem/gcp.i/14Jul2009.b/P071417ab.d

Date : 15-JUL-2009 01:07

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0049

QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907124A-05A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071411**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/14/09 03:26 PM**
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0012	Not Detected	Not Detected
alpha-BHC	0.10	0.0012	Not Detected	Not Detected
beta-BHC	0.10	0.0012	Not Detected	Not Detected
delta-BHC	0.10	0.0012	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0012	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0012	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0012	Not Detected	Not Detected
4,4'-DDD	0.10	0.0012	Not Detected	Not Detected
4,4'-DDE	0.10	0.0012	Not Detected	Not Detected
4,4'-DDT	0.10	0.0012	Not Detected	Not Detected
Dieldrin	0.10	0.0012	Not Detected	Not Detected
Endosulfan I	0.10	0.0012	Not Detected	Not Detected
Endosulfan II	0.10	0.0012	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0012	Not Detected	Not Detected
Endrin	0.10	0.0012	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0012	Not Detected	Not Detected
Endrin Ketone	0.10	0.0012	Not Detected	Not Detected
Heptachlor	0.10	0.0012	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0012	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.012	Not Detected	Not Detected
Toxaphene	1.0	0.012	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.012	Not Detected	Not Detected
Aroclor-1221	1.0	0.012	Not Detected	Not Detected
Aroclor-1232	1.0	0.012	Not Detected	Not Detected
Aroclor-1248	1.0	0.012	Not Detected	Not Detected
Aroclor-1254	1.0	0.012	Not Detected	Not Detected
Aroclor-1260	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 82000

Aroclors are reported from file p071411a.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	73	60-120
Decachlorobiphenyl	69	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071411.d
Lab Smp Id: 0907123A/124A Client Smp ID: Lab Blank
Inj Date : 14-JUL-2009 22:26
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	6.012	6.011	(0.352)	8182897227	0.43731	0.4373
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 Endosulfan I	Compound Not Detected.					
18 DDE	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

						CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
	Compounds	RT	EXP RT	REL RT	RESPONSE		
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Endosulfan Sulfate	Compound Not Detected.					
	26 Methoxychlor	Compound Not Detected.					
	169 Mirex	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	15.405	15.404	(0.902)	4870391284	0.41256	0.4126
*	29 Decachlorodiphenyl Ether	17.077	17.076	(1.000)	19321752193	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071411a.d
Lab Smp Id: 0907123A/124A Client Smp ID: Lab Blank
Inj Date : 14-JUL-2009 22:26
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	6.012	6.009	(0.352)	8058860149	0.54121	0.541
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	15.405	15.403	(0.902)	4593984449	0.45928	0.459
*	39	Decachlorodiphenyl Ether	17.077	17.074	(1.000)	19099413901	2.00000	

Report Date: 15-Jul-2009 11:42

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071411.d
Lab Smp Id: 0907123A/124A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19850667168	9925333584	39701334336	19321752193	-2.66

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.08	16.58	17.58	17.08	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 11:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071411a.d
Lab Smp Id: 0907123A/124A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	18648773486	9324386743	37297546971	19099413901	2.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.07	16.57	17.57	17.08	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 11:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907123A/124A
Client Smp ID: Lab Blank
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File: 1050-166.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4373	72.88	60-120
$ 28 DCB	0.6000	0.4126	68.76	60-120

Report Date: 15-Jul-2009 11:43

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907123A/124A
Client Smp ID: Lab Blank
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.541	90.20	60-120
$ 38 DCB	0.600	0.459	76.55	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071411.d

Date : 14-JUL-2009 22:26

Client ID: Lab Blank

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0900

Data File: /chem/gcp.i/14Jul2009.b/P071411a.d

Date : 14-JUL-2009 22:26

Client ID: Lab Blank

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071411b.d
Lab Smp Id: 0907123A/124A Client Smp ID: Lab Blank
Inj Date : 14-JUL-2009 22:26
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	5.833	5.831	(0.371)	2997111559	0.44266	0.4426
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 DDE	Compound Not Detected.					
18 Endosulfan I	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Methoxychlor	Compound Not Detected.					
	168 Mirex	Compound Not Detected.					
	26 Endosulfan Sulfate	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	14.383	14.381	(0.916)	2152096651	0.39800	0.3980
*	29 Decachlorodiphenyl Ether	15.703	15.701	(1.000)	8590932099	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071411ab.d
Lab Smp Id: 0907123A/124A Client Smp ID: Lab Blank
Inj Date : 14-JUL-2009 22:26
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	5.833	5.829	(0.371)	2991711817	0.49948	0.499
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	14.383	14.380	(0.916)	2199159331	0.47130	0.471
*	39	Decachlorodiphenyl Ether	15.703	15.699	(1.000)	8604387760	2.00000	

Report Date: 15-Jul-2009 11:44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071411b.d
Lab Smp Id: 0907123A/124A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8415739331	4207869665	16831478662	8590932099	2.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 11:44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071411ab.d
Lab Smp Id: 0907123A/124A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8100028078	4050014039	16200056156	8604387760	6.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 11:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907123A/124A
Client Smp ID: Lab Blank
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File: 1050-166.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4426	73.78	60-120
$ 28 DCB	0.6000	0.3980	66.33	60-120

Report Date: 15-Jul-2009 11:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907123A/124A
Client Smp ID: Lab Blank
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.499	83.25	60-120
$ 38 DCB	0.600	0.471	78.55	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071411b.d

Date : 14-JUL-2009 22:26

Client ID: Lab Blank

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0070

Data File: /chem/gcp.i/14Jul2009.b/P071411ab.d

Date : 14-JUL-2009 22:26

Client ID: Lab Blank

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-4A GC/ECD

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0907124A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Decachlorobiphenyl	#	2,4,5,6-Tetrachloro-m-xylene	#		#		#	TOTAL OUT
01	OFF03-070209	72		78						0
02	OFF04-070209	70		79						0
03	Lab Blank	69		73						0
04	LCS	68		75						0
05										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

Decachlorobiphenyl 60 - 120
2,4,5,6-Tetrachloro-m-xylene 60 - 120

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905.d
Level 2: /chem/gcp.i/19May2009.b/P051906.d
Level 3: /chem/gcp.i/19May2009.b/P051907.d
Level 4: /chem/gcp.i/19May2009.b/P051912.d
Level 5: /chem/gcp.i/19May2009.b/P051909.d
Level 6: /chem/gcp.i/19May2009.b/P051910.d
Level 7: /chem/gcp.i/19May2009.b/P051911.d

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
M 3 toxaphene	+++++	+++++	+++++	0.18671	+++++	+++++		
	+++++						0.18671	0.000
4 toxaphene-1	+++++	+++++	+++++	0.04782	+++++	+++++		
	+++++						0.04782	0.000
5 toxaphene-2	+++++	+++++	+++++	0.07004	+++++	+++++		
	+++++						0.07004	0.000
6 toxaphene-3	+++++	+++++	+++++	0.03904	+++++	+++++		
	+++++						0.03904	0.000
7 toxaphene-4	+++++	+++++	+++++	0.02980	+++++	+++++		
	+++++						0.02980	0.000
8 a-BHC	3.06029	2.88789	2.91994	2.72188	2.68274	2.66110		
	2.57452						2.78691	6.192
9 g-BHC	2.88994	2.70131	2.73475	2.51098	2.49789	2.47513		
	2.34450						2.59350	7.238

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
10 b-BHC	1.22417	1.12320	1.12343	1.02994	1.01921	1.00999		
	0.95026						1.06860	8.675
11 d-BHC	2.60102	2.42295	2.53904	2.33826	2.34972	2.34578		
	2.25851						2.40790	5.062
12 Heptachlor	2.84736	2.68096	2.53886	2.31490	2.20378	2.13543		
	1.81222						2.36193	14.963
13 Aldrin	2.69177	2.50408	2.46999	2.23588	2.18770	2.13954		
	1.87800						2.30099	11.830
14 Heptachlor Epoxide	2.37477	2.18690	2.13545	1.90885	1.85999	1.81902		
	1.58666						1.98166	13.397
15 g-Chlordane	2.40318	2.23316	2.22169	2.01977	1.98879	1.96759		
	1.78617						2.08862	9.936
16 a-Chlordane	2.28705	2.11693	2.09697	1.90599	1.87542	1.85263		
	1.67113						1.97230	10.439
17 Endosulfan I	2.13442	1.96020	1.91725	1.71655	1.67084	1.63113		
	1.41755						1.77828	13.511
18 DDE	2.17396	2.00397	2.02379	1.84382	1.81318	1.79305		
	1.58704						1.89126	10.141
19 Dieldrin	2.25885	2.10392	2.08574	1.88524	1.84408	1.81147		
	1.59252						1.94026	11.510

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
20 Endrin	1.98606	1.85372	1.84220	1.67416	1.63710	1.61853		
	1.42349						1.71932	10.902
21 DDD	1.65382	1.53980	1.58767	1.46433	1.45601	1.45648		
	1.34287						1.50014	6.816
22 Endosulfan II	1.85327	1.75504	1.73189	1.53068	1.49818	1.45227		
	1.31147						1.59040	12.181
23 DDT	1.68007	1.64889	1.68128	1.56483	1.54873	1.54702		
	1.41846						1.58418	5.949
24 Endrin Aldehyde	1.40233	1.33775	1.33579	1.22654	1.20651	1.19265		
	1.07413						1.25367	8.908
25 Endosulfan Sulfate	1.49491	1.46895	1.49292	1.38126	1.36477	1.36338		
	1.25239						1.40265	6.314
26 Methoxychlor	0.69495	0.63616	0.59870	0.54127	0.52941	0.52639		
	+++++						0.58781	11.609
169 Mirex	1.12526	1.06127	1.05700	0.98397	0.97476	0.98133		
	0.92776						1.01591	6.650
27 Endrin Ketone	1.74472	1.70032	1.68046	1.54698	1.51808	1.50014		
	1.35275						1.57764	8.760
$ 2 TCMX	2.27365	2.06803	1.99655	1.80931	1.76021	1.71359		
	+++++						1.93689	11.110

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
$ 28 DCB	1.37928	1.29286	1.28099	1.18244	1.16526	1.16758		
	1.08536						1.22197	8.160

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 9.57619190                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/gcp.i/19May2009.b/p0910519.m
Start Cal Date: 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
19-MAY-2009 17:30	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051905.d
Cal Level: 2 , Cal Amount: 0.20000		
19-MAY-2009 17:57	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051906.d
Cal Level: 3 , Cal Amount: 0.40000		
19-MAY-2009 18:23	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907.d
Cal Level: 4 , Cal Amount: 0.60000		
19-MAY-2009 20:37	tox	/chem/gcp.i/19May2009.b/P051912.d
19-MAY-2009 18:50	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051908.d
Cal Level: 5 , Cal Amount: 0.80000		
19-MAY-2009 19:17	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051909.d
Cal Level: 6 , Cal Amount: 1.00000		
19-MAY-2009 19:43	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051910.d
Cal Level: 7 , Cal Amount: 2.50000		
19-MAY-2009 20:10	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051911.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

```
+-------------------+-----------------+-----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                                |
+==================================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907a.d       |
+-------------------+-----------------+-----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                                |
+==================================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907.d        |
+-------------------+-----------------+-----------------------------------------+
```

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

upper range for Methoxychlor is 10ppm and TCMX is 2.0ppm

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905.d
Level 2: /chem/gcp.i/19May2009.b/P051906.d
Level 3: /chem/gcp.i/19May2009.b/P051907.d
Level 4: /chem/gcp.i/19May2009.b/P051912.d
Level 5: /chem/gcp.i/19May2009.b/P051909.d
Level 6: /chem/gcp.i/19May2009.b/P051910.d
Level 7: /chem/gcp.i/19May2009.b/P051911.d

2nd Source: P051914
Mirex 2nd Source: P051913
TOX: P051912

Based on 1ul injection in Hexane

5/20/09

unit in ppm

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	2.500 Level 7	RRF	% RSD
M 3 toxaphene *	++++++	++++++	++++++	0.18671	++++++	++++++		0.18671	0.000
4 toxaphene-1	++++++	++++++	++++++	0.04782	++++++	++++++		0.04782	0.000
5 toxaphene-2	++++++	++++++	++++++	0.07004	++++++	++++++		0.07004	0.000
6 toxaphene-3	++++++	++++++	++++++	0.03904	++++++	++++++		0.03904	0.000
7 toxaphene-4	++++++	++++++	++++++	0.02980	++++++	++++++		0.02980	0.000
8 a-BHC	3.06029	2.88789	2.91994	2.72188	2.68274	2.66110	2.57452	2.78691	6.192
9 g-BHC	2.88994	2.70131	2.73475	2.51098	2.49789	2.47513	2.34450	2.59350	7.238

RM 5/20/09

*Calibration level: 6.0ppm

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

80

Method: Mod. TO-4A/TO-10A

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 2.31%
		Back:			Back: 2.25%
1685-320-50	Decafluorodiphenyl Ether	Front: 199266643419		DDT	Front: 3.12%
		Back: 63491128896			Back: 2.51%
NA	NA	Front: NA		must be ≤15%	
		Back:			

Injection Volume: 1.0 µL

	USE	File #	Sample/ Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed (GMT)	Time Analyzed	Review Init.	Comments
1	✓	P051901	Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
2	✓	02	1685-143-0.8 Wall	2				1548		
3	X	03	1685-135-0.6 Pest	3				1615		CCV ↑
4	✓	04	Hexane Blank	4				1642		
5	✓	05	1685-135-0.1	5		RTD/LA		1730		Level 1
6	✓	06	-0.2	6				1757		Level 2
7	✓	07	-0.4	7				1823		Level 3, CCV
8	✓	08	-0.6	8				1850		Level 4
9	✓	09	-0.8	9				1917		Level 5
10	✓	10	-1.0	10				1943		Level 6
11	✓	11	-5.0, 50:100	11				2010		Level 7, 2.5 ppm
12	✓	12	1685-127-6.0, TOX	12				2037		TOX
13	✓	13	1685-109A-1.0	13				2104		LCS mercy
14	✓	14	1685-136-0.4	14				2130		LCS
15	✓	15	Hexane Blank	15				2157		
16	✓	16	090514 2A-Blank	16				2328		
17	✓	17	-LCS	17				2355		LCS
18	✓	18	-01A	18			5/20/09	0021		
19	✓	19	-01AA	18				0048		
20	✓	20	-04A	19				0115		
21	✓	21	1685-135-0.4	20				0142		
22	✓	22	Hexane Blank	21				0208		
23	✓	23	09052601A-Blank	22				0235		
24	✓	24	-LCS	23				0302		LCS

Calculation Check: File ID: P051914 Compound: g-BHC Initials: [illegible]

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF$_{AVG}$ = (982979 0842) / (212 6843830 2 ~~(2.25192)~~ 2.59350) × (2.100) = 0.35742 nm 5/20/09

µG/Sample = nG On Column X 1000 µL Final Vol. / 1.0 µL Inj. Vol. X 1000 nG/µG × D.F. = (0.35742) × (1000) / (1000) × (1.00) = 0.35742

Reported Result = 0.3574

[illegible] Signed

5/20/09 Date

Revised: 02/27/06

Report Date: 20-May-2009 08:21 RBM 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Primary Column, RTX-CLPesticides II
Method : /chem/gcp.i/19May2009.b/BREAK.m
Meth Date : 29-Apr-2009 09:16 lantonic Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				9907148577		
M 2 Total Endrin				11771148865		
3 p,p'-DDE	10.867	11.033	-0.166	52545510		
4 Endrin	11.596	11.674	-0.078	11499305683		
5 p,p'-DDD	11.758	11.836	-0.078	256731395		
6 p,p'-DDT	12.207	12.236	-0.029	9597871672		
7 Endrin Aldehyde	12.403	12.433	-0.030	86207858		
8 Endrin Ketone	13.532	13.699	-0.167	185635323		

$$\text{Endrin Breakdown} = \frac{86207858 + 185635323}{11771148865} \times 100 = 2.31\%$$

$$\text{DDT Breakdown} = \frac{52545510 + 256731395}{9907148577} \times 100 = 3.12\%$$

Report Date: 20-May-2009 08:21

nm 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902b.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Confirmation Column, RTX-CLPesticides
Method : /chem/gcp.i/19May2009.b/BREAK.m/BREAKB.m
Meth Date : 30-Jul-2003 09:29 lzhang Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				3092786588		
M 2 Total Endrin				3417949801		
3 p,p'-DDE	10.240	10.260	-0.020	13604321		
4 Endrin	11.096	11.113	-0.017	3341046962		
5 p,p'-DDD	11.184	11.204	-0.020	64059536		
6 p,p'-DDT	11.593	11.768	-0.175	3015122731		
7 Endrin Aldehyde	12.047	12.227	-0.180	12336504		
8 Endrin Ketone	13.048	13.227	-0.179	64566333		

Endrin Breakdown $= \frac{12336504 + 64566333}{3417949801} \times 100 = 2.25\%$

DDT Breakdown $= \frac{13604321 + 64059536}{3092786588} \times 100 = 2.51\%$

Data File: /chem/gcp.i/19May2009.b/P051914.d
Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-136-0.4-4.0
Level: LOW
Data Type: GC DATA
SpikeList File: 1050-159.spk
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6504	81.31*	85-115
8 a-BHC	0.4000	0.3761	94.03	85-115
10 b-BHC	0.4000	0.3680	92.00	85-115
9 g-BHC	0.4000	0.3574	89.36	85-115
11 d-BHC	0.4000	0.3602	90.05	85-115
12 Heptachlor	0.4000	0.3821	95.52	85-115
13 Aldrin	0.4000	0.3751	93.78	85-115
14 Heptachlor Epoxide	0.4000	0.3761	94.02	85-115
17 Endosulfan I	0.4000	0.3770	94.24	85-115
18 DDE	0.8000	0.7122	89.03	85-115
19 Dieldrin	0.8000	0.7218	90.23	85-115
20 Endrin	0.8000	0.6961	87.01	85-115
22 Endosulfan II	0.8000	0.7112	88.90	85-115
21 DDD	0.8000	0.7230	90.38	85-115
24 Endrin Aldehyde	0.8000	0.6449	80.61*	85-115
25 Endosulfan Sulfate	0.8000	0.7097	88.72	85-115
23 DDT	0.8000	0.7277	90.97	85-115
27 Endrin Ketone	0.8000	0.6887	86.09	85-115
16 a-Chlordane	0.4000	0.3700	92.50	85-115
15 g-Chlordane	0.4000	0.3633	90.82	85-115
26 Methoxychlor	4.000	3.662	91.55	85-115
$ 28 DCB	1.600	1.216	76.01*	85-115

avg = 89.42 rm 5/20/09

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6504	81.31	60-120
$ 28 DCB	1.100	1.216	76.01	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051914.d
Lab Smp Id: 1685-136-0.4-4.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-136-0.4-4.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	6.032	6.030	(0.352)	13359563521	0.65044	0.6504(R)
8 a-BHC	7.023	7.021	(0.410)	11115054334	0.37611	0.3761
9 g-BHC	7.636	7.633	(0.446)	9829790842	0.35742	0.3574
10 b-BHC	7.782	7.779	(0.455)	4169846707	0.36798	0.3680
11 d-BHC	8.318	8.313	(0.486)	9196957842	0.36019	0.3602
12 Heptachlor	8.425	8.423	(0.492)	9570029662	0.38209	0.3821
13 Aldrin	9.030	9.028	(0.528)	9153183919	0.37513	0.3751
14 Heptachlor Epoxide	10.041	10.039	(0.587)	7903267660	0.37610	0.3761
15 g-Chlordane	10.354	10.352	(0.605)	8046254303	0.36329	0.3633
16 a-Chlordane	10.593	10.591	(0.619)	7738645707	0.37001	0.3700
17 Endosulfan I	10.692	10.690	(0.625)	7108548234	0.37697	0.3770
18 DDE	10.863	10.861	(0.635)	14284364405	0.71225	0.7122
19 Dieldrin	11.126	11.124	(0.650)	14852018351	0.72185	0.7218
20 Endrin	11.595	11.594	(0.677)	12690892064	0.69607	0.6961
21 DDD	11.753	11.752	(0.687)	11502206023	0.72306	0.7230
22 Endosulfan II	11.912	11.910	(0.696)	11994767584	0.71122	0.7112
23 DDT	12.206	12.205	(0.713)	12225304159	0.72774	0.7277
24 Endrin Aldehyde	12.401	12.399	(0.724)	8573243685	0.64489	0.6449(R)
25 Endosulfan Sulfate	12.792	12.790	(0.747)	10556613234	0.70973	0.7097
26 Methoxychlor	13.158	13.157	(0.769)	22826386237	3.66200	3.662
27 Endrin Ketone	13.530	13.529	(0.790)	11522288287	0.68874	0.6887

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 28 DCB	15.436	15.434	(0.902)	15758956240	1.21616	1.216(R)
* 29 Decachlorodiphenyl Ether	17.118	17.115	(1.000)	21208438362	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051914.d
Lab Smp Id: 1685-136-0.4-4.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	21208438362	6.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 19May2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 1685-136-0.4-4.0
Client Smp ID: LCS
Level: LOW
Operator: LA/rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-159.spk
Quant Type: ISTD
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6504	81.31*	85-115
8 a-BHC	0.4000	0.3761	94.03	85-115
10 b-BHC	0.4000	0.3680	92.00	85-115
9 g-BHC	0.4000	0.3574	89.36	85-115
11 d-BHC	0.4000	0.3602	90.05	85-115
12 Heptachlor	0.4000	0.3821	95.52	85-115
13 Aldrin	0.4000	0.3751	93.78	85-115
14 Heptachlor Epoxide	0.4000	0.3761	94.02	85-115
17 Endosulfan I	0.4000	0.3770	94.24	85-115
18 DDE	0.8000	0.7122	89.03	85-115
19 Dieldrin	0.8000	0.7218	90.23	85-115
20 Endrin	0.8000	0.6961	87.01	85-115
22 Endosulfan II	0.8000	0.7112	88.90	85-115
21 DDD	0.8000	0.7230	90.38	85-115
24 Endrin Aldehyde	0.8000	0.6449	80.61*	85-115
25 Endosulfan Sulfate	0.8000	0.7097	88.72	85-115
23 DDT	0.8000	0.7277	90.97	85-115
27 Endrin Ketone	0.8000	0.6887	86.09	85-115
16 a-Chlordane	0.4000	0.3700	92.50	85-115
15 g-Chlordane	0.4000	0.3633	90.82	85-115
26 Methoxychlor	4.000	3.662	91.55	85-115
$ 28 DCB	1.600	1.216	76.01*	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6504	81.31	60-120
$ 28 DCB	1.100	1.216	76.01	60-120

Data File: /chem/gcp.i/19May2009.b/P051914.d

Date : 19-MAY-2009 21:30

Client ID: LCS

Sample Info: 1685-136-0.4-4.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051913.d
Lab Smp Id: 1685-109A-1.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:04
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-109A-1.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	Compound Not Detected.					
169 Mirex	13.476	13.475	(0.787)	10299024327	0.95972	0.9597
$ 28 DCB	Compound Not Detected.					
* 29 Decachlorodiphenyl Ether	17.116	17.115	(1.000)	21126349198	2.00000	

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051913.d
Lab Smp Id: 1685-109A-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	21126349198	6.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-109A-1.0
Level: LOW
Data Type: GC DATA
SpikeList File: mirex.spk
Sublist File: mirex.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
169 Mirex	1.000	0.9597	95.97	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.000	*	60-120
$ 28 DCB	0.6000	0.000	*	60-120

Data File: /chem/gcp.i/19May2009.b/P051913.d

Date : 19-MAY-2009 21:04

Client ID: LCS

Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0093

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051905.d
Lab Smp Id: 1685-135-0.1
Inj Date : 19-MAY-2009 17:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.1
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:30 Cal File: P051905.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.046	6.030	(0.353)	4190478206	0.20000	0.2130
8 a-BHC	7.039	7.021	(0.411)	2820156397	0.10000	0.1023
9 g-BHC	7.653	7.633	(0.447)	2663172423	0.10000	0.1028
10 b-BHC	7.800	7.779	(0.455)	1128113119	0.10000	0.1043
11 d-BHC	8.336	8.313	(0.486)	2396925742	0.10000	0.1012
12 Heptachlor	8.443	8.423	(0.493)	2623940448	0.10000	0.1057
13 Aldrin	9.048	9.028	(0.528)	2480556367	0.10000	0.1043
14 Heptachlor Epoxide	10.057	10.039	(0.587)	2188432073	0.10000	0.1053
15 g-Chlordane	10.370	10.352	(0.605)	2214613357	0.10000	0.1039
16 a-Chlordane	10.609	10.591	(0.619)	2107591847	0.10000	0.1043
17 Endosulfan I	10.707	10.690	(0.625)	1966937128	0.10000	0.1054
18 DDE	10.879	10.861	(0.635)	2003375945	0.10000	0.1036
19 Dieldrin	11.141	11.124	(0.650)	2081607034	0.10000	0.1040
20 Endrin	11.609	11.594	(0.678)	1830216283	0.10000	0.1038
21 DDD	11.769	11.752	(0.687)	1524047643	0.10000	0.1020
22 Endosulfan II	11.926	11.910	(0.696)	1707847391	0.10000	0.1034
23 DDT	12.220	12.205	(0.713)	1548241722	0.10000	0.09996
24 Endrin Aldehyde	12.414	12.399	(0.725)	1292290011	0.10000	0.1024
25 Endosulfan Sulfate	12.804	12.790	(0.747)	1377612062	0.10000	0.1001
26 Methoxychlor	13.169	13.157	(0.769)	6404170159	1.00000	1.074
169 Mirex	13.488	13.475	(0.787)	1036968506	0.10000	0.1031

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.542	13.529	(0.790)	1607814147	0.10000	0.1019
$ 28 DCB	15.450	15.434	(0.902)	2542111961	0.20000	0.2074
* 29 Decachlorodiphenyl Ether	17.134	17.115	(1.000)	18430658910	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051905.d
Lab Smp Id: 1685-135-0.1
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	18430658910	-7.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.13	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051905.d

Date : 19-MAY-2009 17:30

Client ID:

Sample Info: 1685-135-0.1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051906.d
Lab Smp Id: 1685-135-0.2
Inj Date : 19-MAY-2009 17:57
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.2
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:57 Cal File: P051906.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.031	6.030	(0.352)	8320476346	0.40000	0.3915
8 a-BHC	7.022	7.021	(0.410)	5809554387	0.20000	0.1954
9 g-BHC	7.634	7.633	(0.446)	5434210531	0.20000	0.1947
10 b-BHC	7.781	7.779	(0.455)	2259525472	0.20000	0.1942
11 d-BHC	8.317	8.313	(0.486)	4874235102	0.20000	0.1922
12 Heptachlor	8.424	8.423	(0.492)	5393269220	0.20000	0.1994
13 Aldrin	9.029	9.028	(0.527)	5037450048	0.20000	0.1960
14 Heptachlor Epoxide	10.039	10.039	(0.587)	4399381713	0.20000	0.1959
15 g-Chlordane	10.353	10.352	(0.605)	4492427269	0.20000	0.1954
16 a-Chlordane	10.593	10.591	(0.619)	4258621346	0.20000	0.1954
17 Endosulfan I	10.691	10.690	(0.625)	3943326411	0.20000	0.1956
18 DDE	10.864	10.861	(0.635)	4031368037	0.20000	0.1939
19 Dieldrin	11.125	11.124	(0.650)	4232439245	0.20000	0.1958
20 Endrin	11.595	11.594	(0.677)	3729112240	0.20000	0.1957
21 DDD	11.755	11.752	(0.687)	3097601608	0.20000	0.1932
22 Endosulfan II	11.911	11.910	(0.696)	3530609854	0.20000	0.1972
23 DDT	12.207	12.205	(0.713)	3317060058	0.20000	0.1975
24 Endrin Aldehyde	12.401	12.399	(0.724)	2691135991	0.20000	0.1969
25 Endosulfan Sulfate	12.791	12.790	(0.747)	2955068029	0.20000	0.1978
26 Methoxychlor	13.157	13.157	(0.769)	12797624733	2.00000	1.978
169 Mirex	13.476	13.475	(0.787)	2134950060	0.20000	0.1963

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.530	13.529	(0.790)	3420526513	0.20000	0.1990
$	28 DCB	15.435	15.434	(0.902)	5201669477	0.40000	0.3924
*	29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	20116938105	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051906.d
Lab Smp Id: 1685-135-0.2
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	20116938105	0.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051906.d

Date : 19-MAY-2009 17:57

Client ID:

Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0101

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051907.d
Lab Smp Id: 1685-135-0.4
Inj Date : 19-MAY-2009 18:23
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.4
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 12:59 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:23 Cal File: P051907.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.030	6.030	(0.352)	15913794860	0.80000	0.8000
8 a-BHC	7.021	7.021	(0.410)	11636921972	0.40000	0.4000
9 g-BHC	7.633	7.633	(0.446)	10898880199	0.40000	0.4000
10 b-BHC	7.779	7.779	(0.454)	4477234347	0.40000	0.4000
11 d-BHC	8.313	8.313	(0.486)	10118923421	0.40000	0.4000
12 Heptachlor	8.423	8.423	(0.492)	10118190743	0.40000	0.4000
13 Aldrin	9.028	9.028	(0.527)	9843705134	0.40000	0.4000
14 Heptachlor Epoxide	10.039	10.039	(0.587)	8510457237	0.40000	0.4000
15 g-Chlordane	10.352	10.352	(0.605)	8854152809	0.40000	0.4000
16 a-Chlordane	10.591	10.591	(0.619)	8357126023	0.40000	0.4000
17 Endosulfan I	10.690	10.690	(0.625)	7640888517	0.40000	0.4000
18 DDE	10.861	10.861	(0.635)	8065454985	0.40000	0.4000
19 Dieldrin	11.124	11.124	(0.650)	8312366885	0.40000	0.4000
20 Endrin	11.594	11.594	(0.677)	7341785819	0.40000	0.4000
21 DDD	11.752	11.752	(0.687)	6327369617	0.40000	0.4000
22 Endosulfan II	11.910	11.910	(0.696)	6902151381	0.40000	0.4000
23 DDT	12.205	12.205	(0.713)	6700463213	0.40000	0.4000
24 Endrin Aldehyde	12.399	12.399	(0.724)	5323543032	0.40000	0.4000
25 Endosulfan Sulfate	12.790	12.790	(0.747)	5949772334	0.40000	0.4000
26 Methoxychlor	13.157	13.157	(0.769)	23860307640	4.00000	4.000
169 Mirex	13.475	13.475	(0.787)	4212507456	0.40000	0.4000

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.529	13.529	(0.790)	6697199731	0.40000	0.4000
$ 28 DCB	15.434	15.434	(0.902)	10210332030	0.80000	0.8000
* 29 Decachlorodiphenyl Ether	17.115	17.115	(1.000)	19926643419	2.00000	

Report Date: 19-May-2009 12:59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051907.d
Lab Smp Id: 1685-135-0.4
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	19926643419	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051907.d

Date : 19-MAY-2009 18:23

Client ID:

Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0105

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051912.d
Lab Smp Id: 1685-127-6.0
Inj Date : 19-MAY-2009 20:37
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-127-6.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: tox.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
M 3 toxaphene				11949733770	6.00000	6.000
4 toxaphene-1	11.498	11.517	(0.672)	3060669912	6.00000	6.000
5 toxaphene-2	12.030	12.049	(0.703)	4482979778	6.00000	6.000
6 toxaphene-3	12.528	12.547	(0.732)	2498515344	6.00000	6.000
7 toxaphene-4	12.904	12.907	(0.754)	1907568735	6.00000	6.000
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	21334075296	2.00000	

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051912.d
Lab Smp Id: 1685-127-6.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	21334075296	7.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051912.d

Date : 19-MAY-2009 20:37

Client ID:

Sample Info: 1685-127-6.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0108

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051908.d
Lab Smp Id: 1685-135-0.6
Inj Date : 19-MAY-2009 18:50
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.6
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:50 Cal File: P051908.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.029	6.030	(0.352)	22070318378	1.20000	1.066
8 a-BHC	7.021	7.021	(0.410)	16601018476	0.60000	0.5636
9 g-BHC	7.634	7.633	(0.446)	15314716321	0.60000	0.5561
10 b-BHC	7.779	7.779	(0.454)	6281734001	0.60000	0.5492
11 d-BHC	8.314	8.313	(0.486)	14261255743	0.60000	0.5668
12 Heptachlor	8.424	8.423	(0.492)	14118823074	0.60000	0.5351
13 Aldrin	9.029	9.028	(0.527)	13636847370	0.60000	0.5419
14 Heptachlor Epoxide	10.039	10.039	(0.586)	11642272715	0.60000	0.5323
15 g-Chlordane	10.353	10.352	(0.605)	12318775633	0.60000	0.5460
16 a-Chlordane	10.592	10.591	(0.619)	11624796100	0.60000	0.5441
17 Endosulfan I	10.690	10.690	(0.625)	10469433936	0.60000	0.5331
18 DDE	10.862	10.861	(0.635)	11245663238	0.60000	0.5500
19 Dieldrin	11.125	11.124	(0.650)	11498245673	0.60000	0.5429
20 Endrin	11.595	11.594	(0.677)	10210858613	0.60000	0.5462
21 DDD	11.752	11.752	(0.687)	8931065208	0.60000	0.5627
22 Endosulfan II	11.911	11.910	(0.696)	9335798291	0.60000	0.5347
23 DDT	12.206	12.205	(0.713)	9544050595	0.60000	0.5712
24 Endrin Aldehyde	12.401	12.399	(0.724)	7480792938	0.60000	0.5552
25 Endosulfan Sulfate	12.791	12.790	(0.747)	8424417752	0.60000	0.5678
26 Methoxychlor	13.157	13.157	(0.769)	33012836629	6.00000	5.257
169 Mirex	13.476	13.475	(0.787)	6001327631	0.60000	0.5586

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.530	13.529	(0.790)	9435202516	0.60000	0.5564
$ 28 DCB	15.435	15.434	(0.902)	14423662953	1.20000	1.105
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	20330333482	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051908.d
Lab Smp Id: 1685-135-0.6
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	20330333482	2.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051908.d

Date : 19-MAY-2009 18:50

Client ID:

Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0112

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051909.d
Lab Smp Id: 1685-135-0.8
Inj Date : 19-MAY-2009 19:17
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.8
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 19:17 Cal File: P051909.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.030	6.030	(0.352)	27996431680	1.60000	1.421
8 a-BHC	7.022	7.021	(0.410)	21334657621	0.80000	0.7518
9 g-BHC	7.635	7.633	(0.446)	19864635276	0.80000	0.7493
10 b-BHC	7.779	7.779	(0.454)	8105321892	0.80000	0.7386
11 d-BHC	8.314	8.313	(0.486)	18686274337	0.80000	0.7672
12 Heptachlor	8.424	8.423	(0.492)	17525736898	0.80000	0.7004
13 Aldrin	9.029	9.028	(0.528)	17397821563	0.80000	0.7238
14 Heptachlor Epoxide	10.040	10.039	(0.587)	14791689667	0.80000	0.7109
15 g-Chlordane	10.354	10.352	(0.605)	15815993623	0.80000	0.7321
16 a-Chlordane	10.594	10.591	(0.619)	14914386373	0.80000	0.7296
17 Endosulfan I	10.692	10.690	(0.625)	13287446769	0.80000	0.7110
18 DDE	10.862	10.861	(0.635)	14419465619	0.80000	0.7357
19 Dieldrin	11.126	11.124	(0.650)	14665140547	0.80000	0.7247
20 Endrin	11.595	11.594	(0.677)	13019161260	0.80000	0.7281
21 DDD	11.752	11.752	(0.687)	11578986529	0.80000	0.7562
22 Endosulfan II	11.911	11.910	(0.696)	11914364057	0.80000	0.7160
23 DDT	12.206	12.205	(0.713)	12316368770	0.80000	0.7626
24 Endrin Aldehyde	12.401	12.399	(0.724)	9594813162	0.80000	0.7414
25 Endosulfan Sulfate	12.792	12.790	(0.747)	10853394152	0.80000	0.7579
26 Methoxychlor	13.158	13.157	(0.769)	42101375906	8.00000	7.058
169 Mirex	13.476	13.475	(0.787)	7751874261	0.80000	0.7495

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.530	13.529	(0.790)	12072653207	0.80000	0.7414
$	28 DCB	15.435	15.434	(0.902)	18533615404	1.60000	1.479
*	29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	19881409611	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051909.d
Lab Smp Id: 1685-135-0.8
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	19881409611	-0.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051909.d

Date : 19-MAY-2009 19:17

Client ID:

Sample Info: 1685-135-0.8

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0116

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051910.d
Lab Smp Id: 1685-135-1.0
Inj Date : 19-MAY-2009 19:43
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-1.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 19:43 Cal File: P051910.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.028	6.030	(0.352)	35114596843	2.00000	1.769
8 a-BHC	7.020	7.021	(0.410)	27265320824	1.00000	0.9429
9 g-BHC	7.633	7.633	(0.446)	25359951985	1.00000	0.9393
10 b-BHC	7.777	7.779	(0.454)	10348203459	1.00000	0.9280
11 d-BHC	8.312	8.313	(0.486)	24034623787	1.00000	0.9642
12 Heptachlor	8.423	8.423	(0.492)	21879337539	1.00000	0.8703
13 Aldrin	9.028	9.028	(0.528)	21921521378	1.00000	0.9022
14 Heptachlor Epoxide	10.039	10.039	(0.587)	18637490497	1.00000	0.8884
15 g-Chlordane	10.352	10.352	(0.605)	20159659289	1.00000	0.9198
16 a-Chlordane	10.592	10.591	(0.619)	18981788643	1.00000	0.9160
17 Endosulfan I	10.690	10.690	(0.625)	16712350657	1.00000	0.8872
18 DDE	10.860	10.861	(0.635)	18371347867	1.00000	0.9233
19 Dieldrin	11.125	11.124	(0.650)	18560109843	1.00000	0.9065
20 Endrin	11.594	11.594	(0.677)	16583301353	1.00000	0.9151
21 DDD	11.750	11.752	(0.687)	14922918946	1.00000	0.9542
22 Endosulfan II	11.911	11.910	(0.696)	14879785554	1.00000	0.8872
23 DDT	12.205	12.205	(0.713)	15850629118	1.00000	0.9598
24 Endrin Aldehyde	12.399	12.399	(0.724)	12219722496	1.00000	0.9291
25 Endosulfan Sulfate	12.790	12.790	(0.747)	13969054249	1.00000	0.9550
26 Methoxychlor	13.157	13.157	(0.769)	53933135517	10.0000	8.955
169 Mirex	13.475	13.475	(0.787)	10054626135	1.00000	0.9522

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.529	13.529	(0.790)	15370216805	1.00000	0.9288
$	28 DCB	15.434	15.434	(0.902)	23925701053	2.00000	1.876
*	29 Decachlorodiphenyl Ether	17.115	17.115	(1.000)	20491774093	2.00000	

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051910.d
Lab Smp Id: 1685-135-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	20491774093	2.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.11	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051910.d

Date : 19-MAY-2009 19:43

Client ID:

Sample Info: 1685-135-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051911.d
Lab Smp Id: 1685-135-2.5
Inj Date : 19-MAY-2009 20:10
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-2.5
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:10 Cal File: P051911.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.028	6.030	(0.352)	73195660122	5.00000	3.889(A)
8 a-BHC	7.022	7.021	(0.410)	62536157166	2.50000	2.309
9 g-BHC	7.634	7.633	(0.446)	56949076350	2.50000	2.260(A)
10 b-BHC	7.776	7.779	(0.454)	23082166911	2.50000	2.223
11 d-BHC	8.311	8.313	(0.486)	54860185220	2.50000	2.345
12 Heptachlor	8.425	8.423	(0.492)	44019549649	2.50000	1.918(A)
13 Aldrin	9.030	9.028	(0.528)	45617404669	2.50000	2.040(A)
14 Heptachlor Epoxide	10.041	10.039	(0.587)	38540735037	2.50000	2.002
15 g-Chlordane	10.354	10.352	(0.605)	43386888689	2.50000	2.138
16 a-Chlordane	10.594	10.591	(0.619)	40592628044	2.50000	2.118
17 Endosulfan I	10.692	10.690	(0.625)	34432925059	2.50000	1.993
18 DDE	10.860	10.861	(0.634)	38549931425	2.50000	2.098
19 Dieldrin	11.126	11.124	(0.650)	38682963433	2.50000	2.052(A)
20 Endrin	11.596	11.594	(0.677)	34577202452	2.50000	2.070(A)
21 DDD	11.750	11.752	(0.686)	32618937080	2.50000	2.238
22 Endosulfan II	11.911	11.910	(0.696)	31856277405	2.50000	2.062
23 DDT	12.205	12.205	(0.713)	34455055395	2.50000	2.238(A)
24 Endrin Aldehyde	12.401	12.399	(0.724)	26091056913	2.50000	2.142
25 Endosulfan Sulfate	12.791	12.790	(0.747)	30421182628	2.50000	2.232
26 Methoxychlor	13.161	13.157	(0.769)	89961299657	25.0000	15.75
169 Mirex	13.477	13.475	(0.787)	22535818067	2.50000	2.283

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.530	13.529	(0.790)	32858860253	2.50000	2.144
$ 28 DCB	15.436	15.434	(0.902)	52727654537	5.00000	4.441(A)
* 29 Decachlorodiphenyl Ether	17.118	17.115	(1.000)	19432365788	2.00000	

QC Flag Legend

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

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051911.d
Lab Smp Id: 1685-135-2.5
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	19432365788	-2.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051911.d

Date : 19-MAY-2009 20:10

Client ID:

Sample Info: 1685-135-2.5

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0124

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905b.d
Level 2: /chem/gcp.i/19May2009.b/P051906b.d
Level 3: /chem/gcp.i/19May2009.b/P051907b.d
Level 4: /chem/gcp.i/19May2009.b/P051912b.d
Level 5: /chem/gcp.i/19May2009.b/P051909b.d
Level 6: /chem/gcp.i/19May2009.b/P051910b.d
Level 7: /chem/gcp.i/19May2009.b/P051911b.d

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	2.500 Level 7	___ RRF	% RSD
M 3 toxaphene	+++++	+++++	+++++	0.16464	+++++	+++++	+++++	0.16464	0.000
4 toxaphene-1	+++++	+++++	+++++	0.05826	+++++	+++++	+++++	0.05826	0.000
5 toxaphene-2	+++++	+++++	+++++	0.04119	+++++	+++++	+++++	0.04119	0.000
6 toxaphene-3	+++++	+++++	+++++	0.03150	+++++	+++++	+++++	0.03150	0.000
7 toxaphene-4	+++++	+++++	+++++	0.03369	+++++	+++++	+++++	0.03369	0.000
8 a-BHC	1.94685	2.03442	2.22354	2.14186	2.19265	2.23174	2.29842	2.15278	5.707
9 g-BHC	1.86443	1.92120	2.08465	1.99413	2.03517	2.06604	2.11167	2.01104	4.494

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
10 b-BHC	0.81292	0.79245	0.83550	0.78789	0.79980	0.81006		
	0.81955						0.80831	2.040
11 d-BHC	1.71638	1.77233	1.98203	1.91170	1.89650	1.94368		
	2.02578						1.89263	5.877
12 Heptachlor	1.78384	1.83644	1.94902	1.84281	1.86177	1.88052		
	1.83636						1.85582	2.733
13 Aldrin	1.69800	1.76298	1.88450	1.78900	1.81134	1.83331		
	1.80005						1.79703	3.230
14 Heptachlor Epoxide	1.56501	1.58947	1.67671	1.57178	1.58314	1.59444		
	1.55718						1.59111	2.515
15 g-Chlordane	1.59477	1.63949	1.75806	1.66107	1.68542	1.71499		
	1.70907						1.68041	3.210
16 a-Chlordane	1.56551	1.59152	1.69381	1.59554	1.61296	1.64011		
	1.62799						1.61821	2.563
17 DDE	1.40755	1.40046	1.55177	1.47856	1.50409	1.53929		
	1.53981						1.48879	4.236
18 Endosulfan I	1.46805	1.52440	1.60742	1.49517	1.49957	1.50732		
	1.45642						1.50833	3.275
19 Dieldrin	1.55166	1.60249	1.71508	1.61363	1.62790	1.65210		
	1.62507						1.62685	3.058

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
20 Endrin	1.39653	1.43525	1.52245	1.42955	1.43678	1.46210		
	1.41927						1.44313	2.783
21 DDD	1.17702	1.21567	1.34638	1.27594	1.29348	1.32224		
	1.32560						1.27947	4.861
22 Endosulfan II	1.37600	1.38801	1.47244	1.33648	1.34028	1.33258		
	1.33621						1.36886	3.700
23 DDT	1.32732	1.36556	1.47739	1.40714	1.42057	1.46030		
	1.44592						1.41489	3.776
24 Endrin Aldehyde	1.15746	1.15293	1.19980	1.12665	1.13054	1.14408		
	1.13398						1.14935	2.177
25 Methoxychlor	0.64395	0.63213	0.65077	0.61080	0.61427	0.63138		
	+++++						0.63055	2.504
168 Mirex	1.07161	1.03118	1.06973	0.99424	0.99673	1.02634		
	1.02119						1.03015	3.015
26 Endosulfan Sulfate	1.23423	1.23521	1.32139	1.23082	1.24646	1.28387		
	1.27391						1.26084	2.678
27 Endrin Ketone	1.57105	1.57302	1.64873	1.54219	1.54512	1.57006		
	1.54022						1.57006	2.396
$ 2 TCMX	1.56752	1.56900	1.64608	1.56091	1.56873	1.57058		
	1.55087						1.57624	2.002

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
$ 28 DCB	1.29958	1.25968	1.30852	1.22461	1.22688	1.25095		
	1.24150						1.25882	2.652

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 3.28182554                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Start Cal Date: 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
19-MAY-2009 17:30	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051905b.d

Cal Level: 2 , Cal Amount: 0.20000		
19-MAY-2009 17:57	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051906b.d

Cal Level: 3 , Cal Amount: 0.40000		
19-MAY-2009 18:23	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907b.d

Cal Level: 4 , Cal Amount: 0.60000		
19-MAY-2009 20:37	tox	/chem/gcp.i/19May2009.b/P051912b.d
19-MAY-2009 18:50	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051908b.d

Cal Level: 5 , Cal Amount: 0.80000		
19-MAY-2009 19:17	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051909b.d

Cal Level: 6 , Cal Amount: 1.00000		
19-MAY-2009 19:44	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051910b.d

Cal Level: 7 , Cal Amount: 2.50000		
19-MAY-2009 20:10	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051911b.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

```
+-------------------+-----------------+----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                          |
+==============================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907ab.d     |
+-------------------+-----------------+----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                          |
+==============================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907b.d      |
+-------------------+-----------------+----------------------------------------+
```

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Upper range for Methoxychlor is 10 ppm

2nd Source: P051914b
Mirex 2nd Source: P051913b
TOX: P051912b

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905b.d
Level 2: /chem/gcp.i/19May2009.b/P051906b.d
Level 3: /chem/gcp.i/19May2009.b/P051907b.d
Level 4: /chem/gcp.i/19May2009.b/P051912b.d
Level 5: /chem/gcp.i/19May2009.b/P051909b.d
Level 6: /chem/gcp.i/19May2009.b/P051910b.d
Level 7: /chem/gcp.i/19May2009.b/P051911b.d

Based on 1ul injection in Hexane

5/20/09

Compound (unit in ppm)	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	2.500 Level 7	RRF	% RSD
M 3 toxaphene *	++++++	++++++	++++++	0.16464	++++++	++++++	++++++	0.16464	0.000
4 toxaphene-1	++++++	++++++	++++++	0.05826	++++++	++++++	++++++	0.05826	0.000
5 toxaphene-2	++++++	++++++	++++++	0.04119	++++++	++++++	++++++	0.04119	0.000
6 toxaphene-3	++++++	++++++	++++++	0.03150	++++++	++++++	++++++	0.03150	0.000
7 toxaphene-4	++++++	++++++	++++++	0.03369	++++++	++++++	++++++	0.03369	0.000
8 a-BHC	1.94685	2.03442	2.22354	2.14186	2.19265	2.23174	2.29842	2.15278	5.707
9 g-BHC	1.86443	1.92120	2.08465	1.99413	2.03517	2.06604	2.11167	2.01104	4.494

5/20/09

* Calibration level : 6.0 ppm

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

80

Method: Mod. TO-4A/TO-10A

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 2.31%
		Back:			Back: 2.25%
1685-320-50	Decafluorodiphenyl Ether	Front: 19926643419		DDT	Front: 3.12%
		Back: 6349112896			Back: 2.51%
NA	NA	Front: NA		*must be ≤15%*	
		Back:			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed (GMT)	Time Analyzed	Review Init.	Comments
1	✓	P051901	Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
2	✓	02	1685-143-0.8 W/add	2				1548		
3	X	03	1685-135-0.6 Pest	3				1615		CCV ↑
4	✓	04	Hexane Blank	4				1642		
5	✓	05	1685-135-0.1	5		RTN/LA		1730		Level 1
6	✓	06	-0.2	6				1757		Level 2
7	✓	07	-0.4	7				1823		Level 3, CCV
8	✓	08	-0.6	8				1850		Level 4
9	✓	09	-0.8	9				1917		Level 5
10	✓	10	-1.0	10				1943		Level 6
11	✓	11	-5.0, 50:100	11				2010		Level 7, 2.5 ppm
12	✓	12	1685-127-6.0, TOX	12				2037		TOX
13	✓	13	1685-109A-1.0	13				2104		LCS mirex
14	✓	14	1685-136-0.4	14				2130		LCS
15	✓	15	Hexane Blank	15				2157		
16	✓	16	090542A-Blank	16				2328		
17	✓	17	-LCS	17				2355		LCS
18	✓	18	-01A	18			5/20/09	0021		
19	✓	19	-01AA	18				0048		
20	✓	20	-04A	19				0115		
21	✓	21	1685-135-0.4	20				0142		
22	✓	22	Hexane Blank	21				0209		
23	✓	23	090526 1A-Blank	22				0235		
24	✓	24	-LCS	23				0302		LCS

Calculation Check: File ID: P051914 Compound: g-BHC Initials: [illegible]

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (982979 / 2126843802) × (2.100 / ~~2.25192~~ 2.59350) nm 5/20/09 = **0.35742**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.35742 × (1000) × (1.00)) / (1000) = **0.35742**

Reported Result = 0.3574

[illegible] 5/20/09

Signed Date

Revised: 02/27/06

Report Date: 20-May-2009 08:21 RBn 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Primary Column, RTX-CLPesticides II
Method : /chem/gcp.i/19May2009.b/BREAK.m
Meth Date : 29-Apr-2009 09:16 lantonic Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	CONCENTRATIONS FINAL (area)
M 1 Total DDT				9907148577		
M 2 Total Endrin				11771148865		
3 p,p'-DDE	10.867	11.033	-0.166	52545510		
4 Endrin	11.596	11.674	-0.078	11499305683		
5 p,p'-DDD	11.758	11.836	-0.078	256731395		
6 p,p'-DDT	12.207	12.236	-0.029	9597871672		
7 Endrin Aldehyde	12.403	12.433	-0.030	86207858		
8 Endrin Ketone	13.532	13.699	-0.167	185635323		

$$\text{Endrin Breakdown} = \frac{86207858 + 185635323}{11771148865} \times 100 = 2.31\%$$

$$\text{DDT Breakdown} = \frac{52545510 + 256731395}{9907148577} \times 100 = 3.12\%$$

Report Date: 20-May-2009 08:21

nm 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902b.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Confirmation Column, RTX-CLPesticides
Method : /chem/gcp.i/19May2009.b/BREAK.m/BREAKB.m
Meth Date : 30-Jul-2003 09:29 lzhang Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				3092786588		
M 2 Total Endrin				3417949801		
3 p,p'-DDE	10.240	10.260	-0.020	13604321		
4 Endrin	11.096	11.113	-0.017	3341046962		
5 p,p'-DDD	11.184	11.204	-0.020	64059536		
6 p,p'-DDT	11.593	11.768	-0.175	3015122731		
7 Endrin Aldehyde	12.047	12.227	-0.180	12336504		
8 Endrin Ketone	13.048	13.227	-0.179	64566333		

Endrin Breakdown $= \frac{12336504 + 64566333}{3417949801} \times 100 = 2.25\%$

DDT Breakdown $= \frac{13604321 + 64059536}{3092786588} \times 100 = 2.51\%$

Data File: /chem/gcp.i/19May2009.b/P051914b.d
Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-136-0.4-4.0
Level: LOW
Data Type: GC DATA
SpikeList File: 1050-159.spk
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6413	80.16*	85-115
8 a-BHC	0.4000	0.3682	92.05	85-115
10 b-BHC	0.4000	0.3596	89.91	85-115
9 g-BHC	0.4000	0.3511	87.77	85-115
11 d-BHC	0.4000	0.3602	90.04	85-115
12 Heptachlor	0.4000	0.3720	93.01	85-115
13 Aldrin	0.4000	0.3671	91.77	85-115
14 Heptachlor Epoxide	0.4000	0.3720	93.00	85-115
18 Endosulfan I	0.4000	0.3865	96.64	85-115
17 DDE	0.8000	0.7371	92.14	85-115
19 Dieldrin	0.8000	0.7529	94.12	85-115
20 Endrin	0.8000	0.7346	91.83	85-115
22 Endosulfan II	0.8000	0.7348	91.85	85-115
21 DDD	0.8000	0.7468	93.35	85-115
24 Endrin Aldehyde	0.8000	0.6537	81.71*	85-115
26 Endosulfan Sulfate	0.8000	0.7142	89.27	85-115
23 DDT	0.8000	0.7417	92.71	85-115
27 Endrin Ketone	0.8000	0.6851	85.63	85-115
16 a-Chlordane	0.4000	0.3654	91.35	85-115
15 g-Chlordane	0.4000	0.3590	89.76	85-115
25 Methoxychlor	4.000	3.663	91.57	85-115
$ 28 DCB	1.600	1.235	77.19*	85-115

avg : 89.86 [illegible] 5/20/09

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6413	80.16	60-120
$ 28 DCB	1.100	1.235	77.19	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051914b.d
Lab Smp Id: 1685-136-0.4-4.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-136-0.4-4.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	5.847	5.845	(0.372)	3367220304	0.64131	0.6413(R)
8 a-BHC	6.722	6.720	(0.427)	2640423232	0.36821	0.3682
9 g-BHC	7.245	7.242	(0.461)	2351882453	0.35109	0.3511
10 b-BHC	7.389	7.386	(0.470)	968359722	0.35965	0.3596
11 d-BHC	7.705	7.701	(0.490)	2270691936	0.36017	0.3602
12 Heptachlor	8.064	8.062	(0.513)	2299782944	0.37202	0.3720
13 Aldrin	8.612	8.609	(0.548)	2197352608	0.36708	0.3671
14 Heptachlor Epoxide	9.693	9.691	(0.616)	1971659424	0.37201	0.3720
15 g-Chlordane	9.903	9.901	(0.630)	2009690592	0.35903	0.3590
16 a-Chlordane	10.124	10.121	(0.644)	1969700451	0.36542	0.3654
18 Endosulfan I	10.354	10.352	(0.658)	1942126574	0.38655	0.3865
17 DDE	10.242	10.240	(0.651)	3655409182	0.73709	0.7371
19 Dieldrin	10.737	10.734	(0.683)	4080182368	0.75293	0.7529
20 Endrin	11.100	11.098	(0.706)	3531507449	0.73464	0.7346
21 DDD	11.185	11.183	(0.711)	3182726272	0.74677	0.7468
22 Endosulfan II	11.441	11.438	(0.728)	3350391440	0.73478	0.7348
23 DDT	11.597	11.595	(0.738)	3495515395	0.74167	0.7417
24 Endrin Aldehyde	12.050	12.048	(0.766)	2502635566	0.65368	0.6537(R)
26 Endosulfan Sulfate	12.663	12.661	(0.805)	2999481475	0.71418	0.7142
25 Methoxychlor	12.278	12.275	(0.781)	7693346518	3.66282	3.663
27 Endrin Ketone	13.051	13.049	(0.830)	3582885696	0.68508	0.6851

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	14.399	14.396	(0.916)	5179038862	1.23511	1.235(R)
* 29 Decachlorodiphenyl Ether	15.725	15.720	(1.000)	6662073971	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051914b.d
Lab Smp Id: 1685-136-0.4-4.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6662073971	4.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 19May2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 1685-136-0.4-4.0
Client Smp ID: LCS
Level: LOW
Operator: LA/rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-159.spk
Quant Type: ISTD
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6413	80.16*	85-115
8 a-BHC	0.4000	0.3682	92.05	85-115
10 b-BHC	0.4000	0.3596	89.91	85-115
9 g-BHC	0.4000	0.3511	87.77	85-115
11 d-BHC	0.4000	0.3602	90.04	85-115
12 Heptachlor	0.4000	0.3720	93.01	85-115
13 Aldrin	0.4000	0.3671	91.77	85-115
14 Heptachlor Epoxide	0.4000	0.3720	93.00	85-115
18 Endosulfan I	0.4000	0.3865	96.64	85-115
17 DDE	0.8000	0.7371	92.14	85-115
19 Dieldrin	0.8000	0.7529	94.12	85-115
20 Endrin	0.8000	0.7346	91.83	85-115
22 Endosulfan II	0.8000	0.7348	91.85	85-115
21 DDD	0.8000	0.7468	93.35	85-115
24 Endrin Aldehyde	0.8000	0.6537	81.71*	85-115
26 Endosulfan Sulfate	0.8000	0.7142	89.27	85-115
23 DDT	0.8000	0.7417	92.71	85-115
27 Endrin Ketone	0.8000	0.6851	85.63	85-115
16 a-Chlordane	0.4000	0.3654	91.35	85-115
15 g-Chlordane	0.4000	0.3590	89.76	85-115
25 Methoxychlor	4.000	3.663	91.57	85-115
$ 28 DCB	1.600	1.235	77.19*	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6413	80.16	60-120
$ 28 DCB	1.100	1.235	77.19	60-120

0141

Data File: /chem/gcp.i/19May2009.b/P051914b.d
Date : 19-MAY-2009 21:30
Client ID: LCS
Sample Info: 1685-136-0.4-4.0

Instrument: gcp.i

Operator: LA/rn

Column phase:

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051913b.d
Lab Smp Id: 1685-109A-1.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:04
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-109A-1.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	Compound Not Detected.					
168 Mirex	12.524	12.522	(0.796)	3350294261	0.97831	0.9783
$ 28 DCB	Compound Not Detected.					
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6648693480	2.00000	

Report Date: 20-May-2009 08:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051913b.d
Lab Smp Id: 1685-109A-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6648693480	4.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:21

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-109A-1.0
Level: LOW
Data Type: GC DATA
SpikeList File: mirex.spk
Sublist File: mirex.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
168 Mirex	1.000	0.9783	97.83	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.000	*	60-120
$ 28 DCB	0.6000	0.000	*	60-120

Data File: /chem/gcp.i/19May2009.b/P051913b.d

Date : 19-MAY-2009 21:04

Client ID: LCS

Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0145

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051905b.d
Lab Smp Id: 1685-135-0.1
Inj Date : 19-MAY-2009 17:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.1
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:30 Cal File: P051905b.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.836	5.845	(0.371)	974163072	0.20000	0.1951
8 a-BHC	6.711	6.720	(0.427)	604954480	0.10000	0.09336
9 g-BHC	7.234	7.242	(0.460)	579343968	0.10000	0.09442
10 b-BHC	7.380	7.386	(0.469)	252603949	0.10000	0.09863
11 d-BHC	7.694	7.701	(0.489)	533340432	0.10000	0.09282
12 Heptachlor	8.054	8.062	(0.512)	554300864	0.10000	0.09557
13 Aldrin	8.601	8.609	(0.547)	527628535	0.10000	0.09479
14 Heptachlor Epoxide	9.685	9.691	(0.616)	486304216	0.10000	0.09655
15 g-Chlordane	9.895	9.901	(0.629)	495550238	0.10000	0.09513
16 a-Chlordane	10.116	10.121	(0.644)	486458714	0.10000	0.09606
18 Endosulfan I	10.348	10.352	(0.658)	456173739	0.10000	0.09547
17 DDE	10.236	10.240	(0.651)	437375930	0.10000	0.09513
19 Dieldrin	10.730	10.734	(0.683)	482153792	0.10000	0.09500
20 Endrin	11.095	11.098	(0.706)	433951570	0.10000	0.09569
21 DDD	11.181	11.183	(0.711)	365739893	0.10000	0.09329
22 Endosulfan II	11.435	11.438	(0.727)	427571120	0.10000	0.09661
23 DDT	11.593	11.595	(0.737)	412442944	0.10000	0.09465
24 Endrin Aldehyde	12.046	12.048	(0.766)	359664128	0.10000	0.09820
26 Endosulfan Sulfate	12.659	12.661	(0.805)	383518286	0.10000	0.09659
25 Methoxychlor	12.275	12.275	(0.781)	2000984676	1.00000	0.9947
168 Mirex	12.520	12.522	(0.796)	332986148	0.10000	0.1001

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.048	13.049	(0.830)	488178532	0.10000	0.09759
$ 28 DCB	14.396	14.396	(0.916)	807649760	0.20000	0.1993
* 29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6214695272	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051905b.d
Lab Smp Id: 1685-135-0.1
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6214695272	-2.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0149

Data File: /chem/gcp.i/19May2009.b/P051905b.d
Date : 19-MAY-2009 17:30
Client ID:
Sample Info: 1685-135-0.1

Instrument: gcp.i

Operator: LA/rn

Column phase:

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051906b.d
Lab Smp Id: 1685-135-0.2
Inj Date : 19-MAY-2009 17:57
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.2
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:57 Cal File: P051906b.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.843	5.845	(0.372)	2075146528	0.40000	0.3937
8 a-BHC	6.718	6.720	(0.427)	1345353136	0.20000	0.1967
9 g-BHC	7.240	7.242	(0.461)	1270482275	0.20000	0.1964
10 b-BHC	7.386	7.386	(0.470)	524045481	0.20000	0.1948
11 d-BHC	7.701	7.701	(0.490)	1172031296	0.20000	0.1944
12 Heptachlor	8.060	8.062	(0.513)	1214431424	0.20000	0.1978
13 Aldrin	8.606	8.609	(0.547)	1165852488	0.20000	0.1979
14 Heptachlor Epoxide	9.689	9.691	(0.616)	1051107836	0.20000	0.1974
15 g-Chlordane	9.899	9.901	(0.630)	1084188274	0.20000	0.1970
16 a-Chlordane	10.120	10.121	(0.644)	1052466532	0.20000	0.1968
18 Endosulfan I	10.351	10.352	(0.658)	1008077573	0.20000	0.1988
17 DDE	10.240	10.240	(0.651)	926118806	0.20000	0.1927
19 Dieldrin	10.733	10.734	(0.683)	1059718960	0.20000	0.1975
20 Endrin	11.096	11.098	(0.706)	949126628	0.20000	0.1978
21 DDD	11.184	11.183	(0.711)	803914073	0.20000	0.1951
22 Endosulfan II	11.437	11.438	(0.728)	917886576	0.20000	0.1966
23 DDT	11.595	11.595	(0.738)	903041296	0.20000	0.1965
24 Endrin Aldehyde	12.047	12.048	(0.766)	762430336	0.20000	0.1971
26 Endosulfan Sulfate	12.660	12.661	(0.805)	816839936	0.20000	0.1955
25 Methoxychlor	12.276	12.275	(0.781)	4180260941	2.00000	1.968
168 Mirex	12.521	12.522	(0.797)	681917989	0.20000	0.1950

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.048	13.049	(0.830)	1040233888	0.20000	0.1969
$	28 DCB	14.395	14.396	(0.916)	1666047600	0.40000	0.3908
*	29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6612955283	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051906b.d
Lab Smp Id: 1685-135-0.2
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6612955283	4.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051906b.d

Date : 19-MAY-2009 17:57

Client ID:

Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0153

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051907b.d
Lab Smp Id: 1685-135-0.4
Inj Date : 19-MAY-2009 18:23
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.4
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:00 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:23 Cal File: P051907b.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	4180464976	0.80000	0.8000
8 a-BHC	6.720	6.720	(0.427)	2823498624	0.40000	0.4000
9 g-BHC	7.242	7.242	(0.461)	2647135330	0.40000	0.4000
10 b-BHC	7.386	7.386	(0.470)	1060934845	0.40000	0.4000
11 d-BHC	7.701	7.701	(0.490)	2516823344	0.40000	0.4000
12 Heptachlor	8.062	8.062	(0.513)	2474908496	0.40000	0.4000
13 Aldrin	8.609	8.609	(0.548)	2392981240	0.40000	0.4000
14 Heptachlor Epoxide	9.691	9.691	(0.616)	2129120176	0.40000	0.4000
15 g-Chlordane	9.901	9.901	(0.630)	2232419654	0.40000	0.4000
16 a-Chlordane	10.121	10.121	(0.644)	2150840608	0.40000	0.4000
18 Endosulfan I	10.352	10.352	(0.658)	2041133282	0.40000	0.4000
17 DDE	10.240	10.240	(0.651)	1970473182	0.40000	0.4000
19 Dieldrin	10.734	10.734	(0.683)	2177850696	0.40000	0.4000
20 Endrin	11.098	11.098	(0.706)	1933242758	0.40000	0.4000
21 DDD	11.183	11.183	(0.711)	1709664887	0.40000	0.4000
22 Endosulfan II	11.438	11.438	(0.728)	1869733401	0.40000	0.4000
23 DDT	11.595	11.595	(0.738)	1876017129	0.40000	0.4000
24 Endrin Aldehyde	12.048	12.048	(0.766)	1523535264	0.40000	0.4000
26 Endosulfan Sulfate	12.661	12.661	(0.805)	1677935294	0.40000	0.4000
25 Methoxychlor	12.275	12.275	(0.781)	8263659710	4.00000	4.000
168 Mirex	12.522	12.522	(0.797)	1358373376	0.40000	0.4000

						AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	Compounds	RT	EXP RT	REL RT	RESPONSE		
	27 Endrin Ketone	13.049	13.049	(0.830)	2093598977	0.40000	0.4000
$	28 DCB	14.396	14.396	(0.916)	3323175741	0.80000	0.8000
*	29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6349112896	2.00000	

Report Date: 19-May-2009 13:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051907b.d
Lab Smp Id: 1685-135-0.4
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6349112896	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051907b.d

Date : 19-MAY-2009 18:23

Client ID:

Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0157

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051912b.d
Lab Smp Id: 1685-127-6.0
Inj Date : 19-MAY-2009 20:37
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-127-6.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: tox.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
M 3 toxaphene				3358017626	6.00000	6.000
4 toxaphene-1	11.522	11.539	(0.733)	1188267372	6.00000	6.000
5 toxaphene-2	11.916	11.932	(0.758)	840083643	6.00000	6.000
6 toxaphene-3	12.188	12.192	(0.775)	642484837	6.00000	6.000
7 toxaphene-4	12.837	12.853	(0.816)	687181772	6.00000	6.000
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6798657433	2.00000	

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051912b.d
Lab Smp Id: 1685-127-6.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6798657433	7.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0160

Data File: /chem/gcp.i/19May2009.b/P051912b.d
Date : 19-MAY-2009 20:37
Client ID:
Sample Info: 1685-127-6.0

Column phase:

Instrument: gcp.i

Operator: LA/rn
Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051908b.d
Lab Smp Id: 1685-135-0.6
Inj Date : 19-MAY-2009 18:50
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.6
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:50 Cal File: P051908b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	6081364960	1.20000	1.181
8 a-BHC	6.720	6.720	(0.427)	4172397648	0.60000	0.6159
9 g-BHC	7.243	7.242	(0.461)	3884612499	0.60000	0.6086
10 b-BHC	7.386	7.386	(0.470)	1534822094	0.60000	0.5856
11 d-BHC	7.701	7.701	(0.490)	3724026144	0.60000	0.6215
12 Heptachlor	8.063	8.062	(0.513)	3589842064	0.60000	0.5967
13 Aldrin	8.610	8.609	(0.548)	3485013040	0.60000	0.6018
14 Heptachlor Epoxide	9.692	9.691	(0.616)	3061867680	0.60000	0.5891
15 g-Chlordane	9.902	9.901	(0.630)	3235802560	0.60000	0.5992
16 a-Chlordane	10.122	10.121	(0.644)	3108144616	0.60000	0.5940
18 Endosulfan I	10.353	10.352	(0.658)	2912626337	0.60000	0.5887
17 DDE	10.240	10.240	(0.651)	2880275447	0.60000	0.6078
19 Dieldrin	10.735	10.734	(0.683)	3143379264	0.60000	0.5974
20 Endrin	11.099	11.098	(0.706)	2784803490	0.60000	0.5932
21 DDD	11.183	11.183	(0.711)	2485551918	0.60000	0.6106
22 Endosulfan II	11.439	11.438	(0.728)	2603493606	0.60000	0.5756
23 DDT	11.596	11.595	(0.738)	2741136797	0.60000	0.6055
24 Endrin Aldehyde	12.049	12.048	(0.766)	2194732912	0.60000	0.5831
26 Endosulfan Sulfate	12.662	12.661	(0.805)	2397657563	0.60000	0.5882
25 Methoxychlor	12.276	12.275	(0.781)	11898593986	6.00000	5.777
168 Mirex	12.523	12.522	(0.797)	1936800641	0.60000	0.5727

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.050	13.049	(0.830)	3004221920	0.60000	0.5842
$	28 DCB	14.397	14.396	(0.916)	4771133040	1.20000	1.154
*	29 Decachlorodiphenyl Ether	15.722	15.720	(1.000)	6493404327	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051908b.d
Lab Smp Id: 1685-135-0.6
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6493404327	2.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051908b.d

Date : 19-MAY-2009 18:50

Client ID:

Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0164

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051909b.d
Lab Smp Id: 1685-135-0.8
Inj Date : 19-MAY-2009 19:17
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.8
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 19:17 Cal File: P051909b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	7975048749	1.60000	1.586
8 a-BHC	6.720	6.720	(0.427)	5573471936	0.80000	0.8322
9 g-BHC	7.243	7.242	(0.461)	5173162391	0.80000	0.8223
10 b-BHC	7.386	7.386	(0.470)	2032991036	0.80000	0.7941
11 d-BHC	7.701	7.701	(0.490)	4820683083	0.80000	0.8176
12 Heptachlor	8.063	8.062	(0.513)	4732414931	0.80000	0.8030
13 Aldrin	8.610	8.609	(0.548)	4604219872	0.80000	0.8099
14 Heptachlor Epoxide	9.692	9.691	(0.616)	4024158592	0.80000	0.7929
15 g-Chlordane	9.902	9.901	(0.630)	4284137472	0.80000	0.8085
16 a-Chlordane	10.123	10.121	(0.644)	4099951725	0.80000	0.8005
18 Endosulfan I	10.354	10.352	(0.658)	3811728664	0.80000	0.7898
17 DDE	10.240	10.240	(0.651)	3823218652	0.80000	0.8194
19 Dieldrin	10.736	10.734	(0.683)	4137924410	0.80000	0.8028
20 Endrin	11.099	11.098	(0.706)	3652130738	0.80000	0.7959
21 DDD	11.183	11.183	(0.711)	3287874329	0.80000	0.8202
22 Endosulfan II	11.440	11.438	(0.728)	3406850996	0.80000	0.7755
23 DDT	11.596	11.595	(0.738)	3610923041	0.80000	0.8120
24 Endrin Aldehyde	12.049	12.048	(0.766)	2873713990	0.80000	0.7841
26 Endosulfan Sulfate	12.662	12.661	(0.805)	3168351471	0.80000	0.7954
25 Methoxychlor	12.277	12.275	(0.781)	15614061374	8.00000	7.795
168 Mirex	12.524	12.522	(0.797)	2533577810	0.80000	0.7721

						AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	Compounds	RT	EXP RT	REL RT	RESPONSE		
	27 Endrin Ketone	13.050	13.049	(0.830)	3927506976	0.80000	0.7843
$	28 DCB	14.398	14.396	(0.916)	6237173926	1.60000	1.553
*	29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6354715762	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051909b.d
Lab Smp Id: 1685-135-0.8
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6354715762	0.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051909b.d
Date : 19-MAY-2009 19:17
Client ID:
Sample Info: 1685-135-0.8

Column phase:

Instrument: gcp.i

Operator: LA/rn
Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051910b.d
Lab Smp Id: 1685-135-1.0
Inj Date : 19-MAY-2009 19:44
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-1.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 19:44 Cal File: P051910b.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.844	5.845	(0.372)	10291674634	2.00000	1.987
8 a-BHC	6.719	6.720	(0.427)	7312053056	1.00000	1.048
9 g-BHC	7.242	7.242	(0.461)	6769161655	1.00000	1.036(A)
10 b-BHC	7.384	7.386	(0.470)	2654063017	1.00000	1.004
11 d-BHC	7.699	7.701	(0.490)	6368261967	1.00000	1.039
12 Heptachlor	8.062	8.062	(0.513)	6161341363	1.00000	1.012(A)
13 Aldrin	8.609	8.609	(0.548)	6006659168	1.00000	1.020(A)
14 Heptachlor Epoxide	9.691	9.691	(0.616)	5224025466	1.00000	0.9985
15 g-Chlordane	9.901	9.901	(0.630)	5618986896	1.00000	1.023
16 a-Chlordane	10.122	10.121	(0.644)	5373646057	1.00000	1.014
18 Endosulfan I	10.353	10.352	(0.658)	4938571712	1.00000	0.9936
17 DDE	10.239	10.240	(0.651)	5043312855	1.00000	1.040
19 Dieldrin	10.735	10.734	(0.683)	5412940096	1.00000	1.015(A)
20 Endrin	11.099	11.098	(0.706)	4790430834	1.00000	1.010(A)
21 DDD	11.181	11.183	(0.711)	4332171745	1.00000	1.040
22 Endosulfan II	11.439	11.438	(0.728)	4366072526	1.00000	0.9696
23 DDT	11.595	11.595	(0.738)	4784530774	1.00000	1.036(A)
24 Endrin Aldehyde	12.049	12.048	(0.766)	3748465229	1.00000	0.9932
26 Endosulfan Sulfate	12.661	12.661	(0.805)	4206481968	1.00000	1.020
25 Methoxychlor	12.276	12.275	(0.781)	20686445028	10.0000	10.01
168 Mirex	12.523	12.522	(0.797)	3362708354	1.00000	0.9949

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.049	13.049	(0.830)	5144143200	1.00000	0.9968
$	28 DCB	14.397	14.396	(0.916)	8197237278	2.00000	1.983
*	29 Decachlorodiphenyl Ether	15.722	15.720	(1.000)	6552793955	2.00000	

QC Flag Legend

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

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051910b.d
Lab Smp Id: 1685-135-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6552793955	3.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051910b.d

Date : 19-MAY-2009 19:44

Client ID:

Sample Info: 1685-135-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0172

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051911b.d
Lab Smp Id: 1685-135-2.5
Inj Date : 19-MAY-2009 20:10
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-2.5
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:10 Cal File: P051911b.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	24533716048	5.00000	4.920(A)
8 a-BHC	6.720	6.720	(0.427)	18179740512	2.50000	2.669
9 g-BHC	7.243	7.242	(0.461)	16702566573	2.50000	2.625(A)
10 b-BHC	7.384	7.386	(0.470)	6482396931	2.50000	2.535
11 d-BHC	7.699	7.701	(0.490)	16023262429	2.50000	2.676
12 Heptachlor	8.064	8.062	(0.513)	14524943048	2.50000	2.474(A)
13 Aldrin	8.611	8.609	(0.548)	14237808192	2.50000	2.504(A)
14 Heptachlor Epoxide	9.693	9.691	(0.616)	12316796921	2.50000	2.447
15 g-Chlordane	9.903	9.901	(0.630)	13518129762	2.50000	2.543
16 a-Chlordane	10.123	10.121	(0.644)	12876830057	2.50000	2.515
18 Endosulfan I	10.354	10.352	(0.659)	11519786096	2.50000	2.414
17 DDE	10.239	10.240	(0.651)	12179333686	2.50000	2.586
19 Dieldrin	10.736	10.734	(0.683)	12853742209	2.50000	2.497(A)
20 Endrin	11.100	11.098	(0.706)	11225904817	2.50000	2.459(A)
21 DDD	11.181	11.183	(0.711)	10485058033	2.50000	2.590
22 Endosulfan II	11.440	11.438	(0.728)	10568997382	2.50000	2.440
23 DDT	11.596	11.595	(0.738)	11436763001	2.50000	2.555(A)
24 Endrin Aldehyde	12.049	12.048	(0.766)	8969388442	2.50000	2.466
26 Endosulfan Sulfate	12.662	12.661	(0.805)	10076209881	2.50000	2.526
25 Methoxychlor	12.277	12.275	(0.781)	51231570480	25.0000	25.68
168 Mirex	12.525	12.522	(0.797)	8077273798	2.50000	2.478

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.051	13.049	(0.830)	12182639200	2.50000	2.452
$ 28 DCB	14.399	14.396	(0.916)	19639693688	5.00000	4.931(A)
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6327724829	2.00000	

QC Flag Legend

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

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051911b.d
Lab Smp Id: 1685-135-2.5
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6327724829	-0.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051911b.d
Date : 19-MAY-2009 20:10
Client ID:
Sample Info: 1685-135-2.5

Column phase:

Instrument: gcp.i

Operator: LA/rn
Column diameter: 2.00

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203.d
Level 2: /chem/gcp.i/22May2009.b/P052204.d
Level 3: /chem/gcp.i/22May2009.b/P052214.d
Level 4: /chem/gcp.i/22May2009.b/P052206.d
Level 5: /chem/gcp.i/22May2009.b/P052207.d
Level 6: /chem/gcp.i/22May2009.b/P052208.d
Level 7: /chem/gcp.i/22May2009.b/P052209.d

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	___ RRF	% RSD
	15.000 Level 7							
M 3 pcb1016/1242	0.26787	0.24319	0.24359	0.21806	0.20847	0.20893		
	0.19543						0.22650	11.330
4 pcb1016/1242-1	0.04399	0.03783	0.03845	0.03492	0.03414	0.03419		
	0.03184						0.03648	11.010
5 pcb1016/1242-2	0.11150	0.09688	0.09655	0.08668	0.08535	0.08523		
	0.07934						0.09165	11.806
6 pcb1016/1242-3	0.06420	0.06599	0.06521	0.05720	0.04962	0.04987		
	0.04686						0.05699	14.474
7 pcb1016/1242-4	0.04817	0.04249	0.04338	0.03926	0.03936	0.03964		
	0.03740						0.04139	8.760
M 8 pcb1260	0.43703	0.37330	0.38315	0.35109	0.34612	0.34761		
	0.32849						0.36669	9.803
9 pcb1260-1	0.09282	0.07813	0.07943	0.07236	0.07100	0.07101		
	0.06673						0.07592	11.384

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
10 pcb1260-2	0.11289	0.09496	0.09707	0.08839	0.08669	0.08688	0.08167	0.09265	11.166
11 pcb1260-3	0.07951	0.06821	0.07029	0.06495	0.06426	0.06486	0.06156	0.06766	8.777
12 pcb1260-4	0.15182	0.13200	0.13635	0.12539	0.12418	0.12487	0.11852	0.13045	8.468
M 13 pcb1221	+++++	+++++	0.07316	+++++	+++++	+++++	+++++	0.07316	0.000
14 pcb1221-1	+++++	+++++	0.00796	+++++	+++++	+++++	+++++	0.00796	0.000
15 pcb1221-2	+++++	+++++	0.01602	+++++	+++++	+++++	+++++	0.01602	0.000
16 pcb1221-3	+++++	+++++	0.00939	+++++	+++++	+++++	+++++	0.00939	0.000
17 pcb1221-4	+++++	+++++	0.03978	+++++	+++++	+++++	+++++	0.03978	0.000
M 18 pcb1232	+++++	+++++	0.04289	+++++	+++++	+++++	+++++	0.04289	0.000
19 pcb1232-1	+++++	+++++	0.01147	+++++	+++++	+++++	+++++	0.01147	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
20 pcb1232-2	+++++	+++++	0.00891	+++++	+++++	+++++			
	+++++							0.00891	0.000
21 pcb1232-3	+++++	+++++	0.01106	+++++	+++++	+++++			
	+++++							0.01106	0.000
22 pcb1232-4	+++++	+++++	0.01144	+++++	+++++	+++++			
	+++++							0.01144	0.000
M 23 pcb1242	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
24 pcb1242-1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
25 pcb1242-2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
26 pcb1242-3	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
27 pcb1242-4	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
M 28 pcb1248	+++++	+++++	0.13073	+++++	+++++	+++++			
	+++++							0.13073	0.000
29 pcb1248-1	+++++	+++++	0.03236	+++++	+++++	+++++			
	+++++							0.03236	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
30 pcb1248-2	+++++	+++++	0.02743	+++++	+++++	+++++	+++++	0.02743	0.000
31 pcb1248-3	+++++	+++++	0.04963	+++++	+++++	+++++	+++++	0.04963	0.000
32 pcb1248-4	+++++	+++++	0.02132	+++++	+++++	+++++	+++++	0.02132	0.000
M 33 pcb1254	+++++	+++++	0.31903	+++++	+++++	+++++	+++++	0.31903	0.000
34 pcb1254-1	+++++	+++++	0.07069	+++++	+++++	+++++	+++++	0.07069	0.000
35 pcb1254-2	+++++	+++++	0.06705	+++++	+++++	+++++	+++++	0.06705	0.000
36 pcb1254-3	+++++	+++++	0.08961	+++++	+++++	+++++	+++++	0.08961	0.000
37 pcb1254-4	+++++	+++++	0.09167	+++++	+++++	+++++	+++++	0.09167	0.000
$ 2 TCMX	1.87183	1.62611	1.62293	1.49125	1.46558	1.45848	1.37862	1.55926	10.552
$ 38 DCB	1.23021	1.05225	1.08607	1.00411	0.99776	1.00550	0.95609	1.04743	8.660

Calibration History

Method : /chem/gcp.i/22May2009.b/p09p0522.m
Start Cal Date: 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
22-MAY-2009 19:06	CCV	/chem/gcp.i/22May2009.b/P052203.d

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 5.00000		
22-MAY-2009 23:59	1254NS	/chem/gcp.i/22May2009.b/P052214.d
22-MAY-2009 23:33	1248NS	/chem/gcp.i/22May2009.b/P052213.d
22-MAY-2009 23:06	1232NS	/chem/gcp.i/22May2009.b/P052212.d
22-MAY-2009 22:39	1221NS	/chem/gcp.i/22May2009.b/P052211.d
22-MAY-2009 19:59	CCV	/chem/gcp.i/22May2009.b/P052205.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 15.00000		
22-MAY-2009 21:46	CCV	/chem/gcp.i/22May2009.b/P052209.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206a.d
Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:43 lzhang
Curve Type : Average

2nd Source: P052603

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203.d
Level 2: /chem/gcp.i/22May2009.b/P052204.d
Level 3: /chem/gcp.i/22May2009.b/P052214.d
Level 4: /chem/gcp.i/22May2009.b/P052206.d
Level 5: /chem/gcp.i/22May2009.b/P052207.d
Level 6: /chem/gcp.i/22May2009.b/P052208.d
Level 7: /chem/gcp.i/22May2009.b/P052209.d

see Calib History

PCB 1221 - P052211
1232 - P052212
1248 - P052213
1254 - P052214
1242 - P052215 - info only

Based on 1 ul injection

Compound (unit in ppm)	1.000 Level 1 / 15.000 Level 7	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	RRF	% RSD
M 3 pcb1016/1242	0.26787 / 0.19543	0.24319	0.24359	0.21806	0.20847	0.20893	0.22650	11.330
4 pcb1016/1242-1	0.04399 / 0.03184	0.03783	0.03845	0.03492	0.03414	0.03419	0.03648	11.010
5 pcb1016/1242-2	0.11150 / 0.07934	0.09688	0.09655	0.08668	0.08535	0.08523	0.09165	11.806
6 pcb1016/1242-3	0.06420 / 0.04686	0.06599	0.06521	0.05720	0.04962	0.04987	0.05699	14.474
7 pcb1016/1242-4	0.04817 / 0.03740	0.04249	0.04338	0.03926	0.03936	0.03964	0.04139	8.760
M 8 pcb1260	0.43703 / 0.32849	0.37330	0.38315	0.35109	0.34612	0.34761	0.36669	9.803
9 pcb1260-1	0.09282 / 0.06673	0.07813	0.07943	0.07236	0.07100	0.07101	0.07592	11.384

pm 6/1/09

6/1/09

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

83

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: NA
		Back: ↓			Back:
1685-32D-50	Decafluorodiphenyl Ether	Front: 21320271892		DDT	Front:
		Back: 62096655562			Back: ↓
NA	NA	Front: NA		must be ≤15%	
		Back: ↓			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed (GMT)	Review Init.	Comments
1	✓	P052201	Hexane Wash	1	1.0	RM	5/22/09	1812	LA	
2	✓	02	Hexane Blank	2				1839		
3	✓	03	1685-137-1.0	3				1906		
4	✓	04	-3.0	4				1932		
5	✓	05	-5.0	5				1959		
6	✓	06	-8.0	6				2026		CCV.
7	✓	07	-10	7				2053		
8	✓	08	-12	8				2119		
9	✓	09	-15	9				2146		
10	X	10	1685-128-5.0 PCB LCS	10				2213		surr ↑
11	✓	11	1685-121-5.0,1221	11				2239		
12	✓	12	1685-121-5.0,1232	12				2306		
13	✓	13	,1248	13				2333		
14	✓	14	,1254	14				2359		
15	✓	15	,1242	15			5/23/09	0026		
16										
17										
18										
19										
20										
21										
22										
23										
24							RM 5/26/09			

Calculation Check: File ID: P052206 Compound: pcb 1016/1242 Initials: LA

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (18922198359) / (21320271892) × (2.00) (0.23171) = **7.66**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (7.66) × (1000) × (1.00) / (1000) = **7.66**

Reported Result = 7.66

Signed: Samuel Antonicelli

Date: 5/22/09

Revised: 02/27/06

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

85

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 5.77 %
		Back: ↓			Back: 5.97 %
1685-320-50	Decafluorodiphenyl Ether	Front: 18898128504		DDT	Front: 8.40 %
		Back: 5731711199			Back: 6.48 %
NA	NA	Front: NA		must be ≤15%	
		Back: ↓			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed (GMT)	Review Init.	Comments
1	✓	P052601	Hexane Wash	1	1.0	LA	5/26/09	1549	LA	
2	✓	02	1685-137-8.0 PCB CCV	2				1616		
3	✓	03	1685-153-8.0 PCB LCS	3				1643		
4	✓	04	1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05	Hexane Wash	1		nm		2054		
6	✓	06	1685-143-0.8 tune	2				2120		
7	✓	07	1685-135-0.6 Pest CCV	3				2147		
8	✓	08	Hexane Blank	4				2214		
9	✓	09	0905530B-Blank	5			↓	2341		
10	X	10	-Pest LCS	6			5/27/09	0008		~~0000~~ nm 5/27/09
11	✓	11	-05A	7				0035		
12	✓	12	-06A	8				0102		
13	✓	13	-07A	9				0128		
14	✓	14	-08A	10				0155		
15	✓	15	-08AA	10				0222		
16	✓	16	1685-135-0.6 Pest CCV	11		↓		0248		
17	✓	17	Hexane Wash	12		LA		1526		
18	✓	18	0905530B-LCS	13				1553		
19	✓	19	1685-135-0.6 Pest CCV	14		↓		1620		
20	✓	20	Hexane Blank	15		nm		1802		
21	✓	21	0905530A-05AA	16				1829		
22	✓	22	1685-135-0.6 Pest CCV	17		↓		1855		
23										
24								VA 5/27/09		

Calculation Check: File ID: V052619 Compound: a-BHC Initials: nm

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (14405387052) / (1804770354) × (2.00) / (2.786691) = **0.65234**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.65234) × (1000) / (1000) × (1) = **0.65234**

Reported Result = _____

Signed: nmoonan

Date: 5/27/09

Revised: 02/27/06

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/26May2009.b/P052603.d
Lab Smp Id: 1685-153-8.0 PCB Client Smp ID: LCS
Inj Date : 26-MAY-2009 16:43
Operator : LA Inst ID: gcp.i
Smp Info : 1685-153-8.0 PCB LCS
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/26May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 13:09 lantonic Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	6.028	6.029	(0.352)	22129849380	1.55839	1.56
M 3 pcb1016/1242				14731431894	7.14144	7.14
4 pcb1016/1242-1	7.441	7.442	(0.435)	2470468669	7.43612	7.44
5 pcb1016/1242-2	8.240	8.240	(0.481)	5552548121	6.65267	6.65(R)
6 pcb1016/1242-3	8.478	8.477	(0.495)	3871142841	7.45827	7.46
7 pcb1016/1242-4	9.310	9.311	(0.544)	2837272263	7.52770	7.53
M 8 pcb1260				25838023852	7.73717	7.74
9 pcb1260-1	11.371	11.372	(0.664)	5208283618	7.53232	7.53
10 pcb1260-2	11.679	11.680	(0.682)	6122130911	7.25552	7.26
11 pcb1260-3	12.752	12.753	(0.745)	5035714592	8.17192	8.17
12 pcb1260-4	13.088	13.089	(0.765)	9471894732	7.97298	7.97
$ 38 DCB	15.434	15.436	(0.902)	15300966899	1.60403	1.60
* 39 Decachlorodiphenyl Ether	17.115	17.119	(1.000)	18214313389	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052603.d
Lab Smp Id: 1685-153-8.0 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/26May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 26-MAY-2009
Calibration Time: 16:16
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	16689543951	8344771975	33379087902	18214313389	9.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.11	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 26May2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-153-8.0 PCB
Client Smp ID: LCS
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/26May2009.b/p09p0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	1.60	1.56	97.40	85-115
M 3 pcb1016/1242	8.00	7.14	89.27	85-115
4 pcb1016/1242-1	8.00	7.44	92.95	85-115
5 pcb1016/1242-2	8.00	6.65	83.16*	85-115
6 pcb1016/1242-3	8.00	7.46	93.23	85-115
7 pcb1016/1242-4	8.00	7.53	94.10	85-115
M 8 pcb1260	8.00	7.74	96.71	85-115
9 pcb1260-1	8.00	7.53	94.15	85-115
10 pcb1260-2	8.00	7.26	90.69	85-115
11 pcb1260-3	8.00	8.17	102.15	85-115
12 pcb1260-4	8.00	7.97	99.66	85-115
$ 38 DCB	1.60	1.60	100.25	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	1.56	97.40	60-120
$ 38 DCB	0.600	1.60	100.25	60-120

Data File: /chem/gcp.i/26May2009.b/P052603.d

Date : 26-MAY-2009 16:43

Client ID: LCS

Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

0190

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052203.d
Lab Smp Id: 1685-137-1.0
Inj Date : 22-MAY-2009 19:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-1.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 12:43 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.031	6.030	(0.352)	3833117146	0.20000	0.240
M 3 pcb1016/1242				2742655944	1.00000	1.18
4 pcb1016/1242-1	7.444	7.443	(0.435)	450415148	1.00000	1.20
5 pcb1016/1242-2	8.262	8.262	(0.483)	1141611009	1.00000	1.22
6 pcb1016/1242-3	8.495	8.480	(0.496)	657378676	1.00000	1.13
7 pcb1016/1242-4	9.313	9.312	(0.544)	493251111	1.00000	1.16
M 8 pcb1260				4474768177	1.00000	1.19
9 pcb1260-1	11.372	11.373	(0.664)	950337772	1.00000	1.22
10 pcb1260-2	11.681	11.681	(0.683)	1155881506	1.00000	1.22
11 pcb1260-3	12.753	12.754	(0.745)	814118050	1.00000	1.18
12 pcb1260-4	13.090	13.090	(0.765)	1554430849	1.00000	1.16
$ 38 DCB	15.433	15.436	(0.902)	2519209302	0.20000	0.235
* 39 Decachlorodiphenyl Ether	17.114	17.119	(1.000)	20477870776	2.00000	

Report Date: 01-Jun-2009 12:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052203.d
Lab Smp Id: 1685-137-1.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	20477870776	-3.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.11	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052203.d

Date : 22-MAY-2009 19:06

Client ID:

Sample Info: 1685-137-1.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0193

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052204.d
Lab Smp Id: 1685-137-3.0
Inj Date : 22-MAY-2009 19:32
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-3.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:32 Cal File: P052204.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.030	6.030	(0.352)	10279579409	0.60000	0.626
M 3 pcb1016/1242				7686570901	3.00000	3.19
4 pcb1016/1242-1	7.443	7.443	(0.435)	1195626203	3.00000	3.11
5 pcb1016/1242-2	8.250	8.262	(0.482)	3062149084	3.00000	3.17
6 pcb1016/1242-3	8.486	8.480	(0.496)	2085811726	3.00000	3.35
7 pcb1016/1242-4	9.312	9.312	(0.544)	1342983888	3.00000	3.08
M 8 pcb1260				11799320576	3.00000	3.05
9 pcb1260-1	11.373	11.373	(0.664)	2469590666	3.00000	3.09
10 pcb1260-2	11.681	11.681	(0.682)	3001640728	3.00000	3.07
11 pcb1260-3	12.753	12.754	(0.745)	2155992991	3.00000	3.02
12 pcb1260-4	13.090	13.090	(0.765)	4172096190	3.00000	3.04
$ 38 DCB	15.435	15.436	(0.902)	6651844972	0.60000	0.603
* 39 Decachlorodiphenyl Ether	17.116	17.119	(1.000)	21071911933	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052204.d
Lab Smp Id: 1685-137-3.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 19:32

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21071911933	10535955967	42143823867	21071911933	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052204.d

Date : 22-MAY-2009 19:32

Client ID:

Sample Info: 1685-137-3.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0196

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052214.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1254
Inj Date : 22-MAY-2009 23:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1254PCB 1254
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:55 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1254NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 33 pcb1254				17010377557	5.00000	5.00
34 pcb1254-1	10.030	10.066	(0.586)	3769331689	5.00000	5.00
35 pcb1254-2	10.341	10.340	(0.604)	3574838505	5.00000	5.00
36 pcb1254-3	11.084	11.084	(0.647)	4778168805	5.00000	5.00
37 pcb1254-4	12.216	12.216	(0.714)	4888038559	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.120	17.119	(1.000)	21327736514	2.00000	

Report Date: 01-Jun-2009 11:55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052214.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1254
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21327736514	0.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052214.d

Date : 22-MAY-2009 23:59

Client ID: PCB 1254

Sample Info: 1685-121-5.0 PCB 1254PCB 1254

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052213.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1248
Inj Date : 22-MAY-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1248
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1248NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 28 pcb1248				7231266713	5.00000	5.00
29 pcb1248-1	8.983	9.120	(0.525)	1789812909	5.00000	5.00
30 pcb1248-2	9.873	9.918	(0.577)	1517118585	5.00000	5.00
31 pcb1248-3	9.974	9.974	(0.583)	2745221379	5.00000	5.00
32 pcb1248-4	10.904	10.904	(0.637)	1179113840	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.121	17.119	(1.000)	22126105488	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052213.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1248
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	22126105488	3.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052213.d

Date : 22-MAY-2009 23:33

Client ID: PCB 1248

Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0202

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052212.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1232
Inj Date : 22-MAY-2009 23:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1232
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1232NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 18 pcb1232				2393304708	5.00000	5.00
19 pcb1232-1	7.871	7.892	(0.460)	639945068	5.00000	5.00
20 pcb1232-2	8.685	8.686	(0.507)	497466832	5.00000	5.00
21 pcb1232-3	8.826	8.826	(0.516)	617239361	5.00000	5.00
22 pcb1232-4	8.911	8.911	(0.520)	638653447	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.119	17.119	(1.000)	22322107763	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052212.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1232
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	22322107763	4.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052212.d

Date : 22-MAY-2009 23:06

Client ID: PCB 1232

Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0205

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052211.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1221
Inj Date : 22-MAY-2009 22:39
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1221
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1221NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 13 pcb1221				3970451781	5.00000	5.00
14 pcb1221-1	5.342	5.441	(0.312)	431963628	5.00000	5.00
15 pcb1221-2	6.485	6.485	(0.379)	869411973	5.00000	5.00
16 pcb1221-3	6.706	6.706	(0.392)	509833929	5.00000	5.00
17 pcb1221-4	6.802	6.803	(0.397)	2159242251	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.122	17.119	(1.000)	21709480321	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052211.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1221
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21709480321	1.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052211.d

Date : 22-MAY-2009 22:39

Client ID: PCB 1221

Sample Info: 1685-121-5.0 PCB 1221

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0208

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052205.d
Lab Smp Id: 1685-137-5.0
Inj Date : 22-MAY-2009 19:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-5.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.030	6.030	(0.352)	17177361230	1.00000	1.04
M 3 pcb1016/1242				12890825726	5.00000	5.33
4 pcb1016/1242-1	7.443	7.443	(0.435)	2034791139	5.00000	5.27
5 pcb1016/1242-2	8.244	8.262	(0.482)	5109270272	5.00000	5.27
6 pcb1016/1242-3	8.482	8.480	(0.496)	3450946797	5.00000	5.52
7 pcb1016/1242-4	9.312	9.312	(0.544)	2295817518	5.00000	5.24
M 8 pcb1260				20276630857	5.00000	5.22
9 pcb1260-1	11.372	11.373	(0.664)	4203718616	5.00000	5.23
10 pcb1260-2	11.680	11.681	(0.682)	5137265598	5.00000	5.24
11 pcb1260-3	12.753	12.754	(0.745)	3719761941	5.00000	5.19
12 pcb1260-4	13.089	13.090	(0.765)	7215884702	5.00000	5.23
$ 38 DCB	15.434	15.436	(0.902)	11495108596	1.00000	1.04
* 39 Decachlorodiphenyl Ether	17.117	17.119	(1.000)	21168292148	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052205.d
Lab Smp Id: 1685-137-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 23:59

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21168292148	10584146074	42336584296	21168292148	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052205.d

Date : 22-MAY-2009 19:59

Client ID:

Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0211

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052206.d
Lab Smp Id: 1685-137-8.0
Inj Date : 22-MAY-2009 20:26
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-8.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:26 Cal File: P052206.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.030	6.030	(0.352)	25420100614	1.60000	1.53
M 3 pcb1016/1242				18585751993	8.00000	7.63
4 pcb1016/1242-1	7.443	7.443	(0.435)	2976401795	8.00000	7.66
5 pcb1016/1242-2	8.242	8.242	(0.481)	7388179671	8.00000	7.57
6 pcb1016/1242-3	8.480	8.480	(0.495)	4874786202	8.00000	7.74
7 pcb1016/1242-4	9.312	9.312	(0.544)	3346384325	8.00000	7.59
M 8 pcb1260				29923905006	8.00000	7.66
9 pcb1260-1	11.373	11.373	(0.664)	6166884225	8.00000	7.62
10 pcb1260-2	11.681	11.681	(0.682)	7533731689	8.00000	7.63
11 pcb1260-3	12.754	12.754	(0.745)	5536010411	8.00000	7.68
12 pcb1260-4	13.090	13.090	(0.765)	10687278680	8.00000	7.69
$ 38 DCB	15.436	15.436	(0.902)	17116192113	1.60000	1.53
* 39 Decachlorodiphenyl Ether	17.119	17.119	(1.000)	21307648584	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052206.d
Lab Smp Id: 1685-137-8.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21307648584	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052206.d

Date : 22-MAY-2009 20:26

Client ID:

Sample Info: 1685-137-8.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0214

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052207.d
Lab Smp Id: 1685-137-10
Inj Date : 22-MAY-2009 20:53
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-10
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:53 Cal File: P052207.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

						AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
Compounds	RT	EXP RT	REL RT	RESPONSE			
$ 2 TCMX	6.030	6.030	(0.352)	31324001995		2.00000	1.88
M 3 pcb1016/1242				22278049603		10.0000	9.12
4 pcb1016/1242-1	7.443	7.443	(0.435)	3648011624		10.0000	9.36
5 pcb1016/1242-2	8.241	8.242	(0.481)	9120802431		10.0000	9.31
6 pcb1016/1242-3	8.478	8.480	(0.495)	5302783173		10.0000	8.40
7 pcb1016/1242-4	9.311	9.312	(0.544)	4206452375		10.0000	9.51
M 8 pcb1260				36987974774		10.0000	9.44
9 pcb1260-1	11.373	11.373	(0.664)	7587098328		10.0000	9.35
10 pcb1260-2	11.680	11.681	(0.682)	9263941075		10.0000	9.36
11 pcb1260-3	12.753	12.754	(0.745)	6866657988		10.0000	9.50
12 pcb1260-4	13.089	13.090	(0.765)	13270277383		10.0000	9.52
$ 38 DCB	15.436	15.436	(0.902)	21325288062		2.00000	1.90
* 39 Decachlorodiphenyl Ether	17.119	17.119	(1.000)	21373083312		2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052207.d
Lab Smp Id: 1685-137-10
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21373083312	0.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052207.d

Date : 22-MAY-2009 20:53

Client ID:

Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0217

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052208.d
Lab Smp Id: 1685-137-12
Inj Date : 22-MAY-2009 21:19
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-12
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:19 Cal File: P052208.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.029	6.030	(0.352)	35966879697	2.40000	2.24
M 3 pcb1016/1242				25761231936	12.0000	11.0
4 pcb1016/1242-1	7.442	7.443	(0.435)	4216093250	12.0000	11.2
5 pcb1016/1242-2	8.240	8.242	(0.481)	10509113226	12.0000	11.2
6 pcb1016/1242-3	8.477	8.480	(0.495)	6148594137	12.0000	10.1
7 pcb1016/1242-4	9.310	9.312	(0.544)	4887431323	12.0000	11.5
M 8 pcb1260				42861740439	12.0000	11.4
9 pcb1260-1	11.372	11.373	(0.664)	8755384528	12.0000	11.2
10 pcb1260-2	11.680	11.681	(0.682)	10712000129	12.0000	11.2
11 pcb1260-3	12.752	12.754	(0.745)	7997372558	12.0000	11.5
12 pcb1260-4	13.088	13.090	(0.765)	15396983224	12.0000	11.5
$ 38 DCB	15.435	15.436	(0.902)	24796067954	2.40000	2.30
* 39 Decachlorodiphenyl Ether	17.117	17.119	(1.000)	20550459704	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052208.d
Lab Smp Id: 1685-137-12
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	20550459704	-3.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052208.d

Date : 22-MAY-2009 21:19

Client ID:

Sample Info: 1685-137-12

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0220

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052209.d
Lab Smp Id: 1685-137-15
Inj Date : 22-MAY-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-15
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:46 Cal File: P052209.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.029	6.030	(0.352)	43156806211	3.00000	2.65
M 3 pcb1016/1242				30589529919	15.0000	12.8
4 pcb1016/1242-1	7.442	7.443	(0.435)	4983483673	15.0000	13.1
5 pcb1016/1242-2	8.239	8.242	(0.481)	12417886567	15.0000	13.0
6 pcb1016/1242-3	8.476	8.480	(0.495)	7334869227	15.0000	11.9
7 pcb1016/1242-4	9.311	9.312	(0.544)	5853290452	15.0000	13.6
M 8 pcb1260				51415679794	15.0000	13.4
9 pcb1260-1	11.372	11.373	(0.664)	10444897890	15.0000	13.2
10 pcb1260-2	11.680	11.681	(0.682)	12783419641	15.0000	13.2
11 pcb1260-3	12.753	12.754	(0.745)	9636104276	15.0000	13.6
12 pcb1260-4	13.089	13.090	(0.765)	18551257987	15.0000	13.6
$ 38 DCB	15.436	15.436	(0.902)	29929712758	3.00000	2.74
* 39 Decachlorodiphenyl Ether	17.118	17.119	(1.000)	20869538353	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052209.d
Lab Smp Id: 1685-137-15
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	20869538353	-2.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052209.d

Date : 22-MAY-2009 21:46

Client ID:

Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0223

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203b.d
Level 2: /chem/gcp.i/22May2009.b/P052204b.d
Level 3: /chem/gcp.i/22May2009.b/P052214b.d
Level 4: /chem/gcp.i/22May2009.b/P052206b.d
Level 5: /chem/gcp.i/22May2009.b/P052207b.d
Level 6: /chem/gcp.i/22May2009.b/P052208b.d
Level 7: /chem/gcp.i/22May2009.b/P052209b.d

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	___ RRF	% RSD
	15.000 Level 7							
M 3 pcb1016/1242	0.21274	0.18605	0.19481	0.18515	0.18496	0.18723		
	0.18005						0.19014	5.728
4 pcb1016/1242-1	0.05469	0.05010	0.05085	0.04751	0.04699	0.04757		
	0.04534						0.04901	6.379
5 pcb1016/1242-2	0.06728	0.05990	0.06415	0.06172	0.06202	0.06285		
	0.06068						0.06266	3.931
6 pcb1016/1242-3	0.05286	0.04450	0.04611	0.04372	0.04360	0.04403		
	0.04244						0.04532	7.730
7 pcb1016/1242-4	0.03792	0.03155	0.03370	0.03220	0.03234	0.03278		
	0.03159						0.03315	6.714
M 8 pcb1260	0.39538	0.34165	0.36181	0.33885	0.34155	0.34685		
	0.33448						0.35151	6.033
9 pcb1260-1	0.08096	0.06846	0.07059	0.06518	0.06519	0.06573		
	0.06308						0.06846	8.815

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	___ RRF	% RSD
	15.000 Level 7							
10 pcb1260-2	0.11846	0.10201	0.10706	0.09967	0.10061	0.10193		
	0.09792						0.10395	6.735
11 pcb1260-3	0.06518	0.05586	0.05854	0.05479	0.05521	0.05617		
	0.05444						0.05717	6.614
12 pcb1260-4	0.13077	0.11532	0.12562	0.11922	0.12054	0.12303		
	0.11903						0.12193	4.158
M 13 pcb1221	+++++	+++++	0.05939	+++++	+++++	+++++		
	+++++						0.05939	0.000
14 pcb1221-1	+++++	+++++	0.00883	+++++	+++++	+++++		
	+++++						0.00883	0.000
15 pcb1221-2	+++++	+++++	0.01321	+++++	+++++	+++++		
	+++++						0.01321	0.000
16 pcb1221-3	+++++	+++++	0.00691	+++++	+++++	+++++		
	+++++						0.00691	0.000
17 pcb1221-4	+++++	+++++	0.03044	+++++	+++++	+++++		
	+++++						0.03044	0.000
M 18 pcb1232	+++++	+++++	0.03867	+++++	+++++	+++++		
	+++++						0.03867	0.000
19 pcb1232-1	+++++	+++++	0.00880	+++++	+++++	+++++		
	+++++						0.00880	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
20 pcb1232-2	+++++	+++++	0.01249	+++++	+++++	+++++	+++++	0.01249	0.000
21 pcb1232-3	+++++	+++++	0.00844	+++++	+++++	+++++	+++++	0.00844	0.000
22 pcb1232-4	+++++	+++++	0.00894	+++++	+++++	+++++	+++++	0.00894	0.000
M 23 pcb1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 pcb1242-1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 pcb1242-2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 pcb1242-3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 pcb1242-4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 28 pcb1248	+++++	+++++	0.10519	+++++	+++++	+++++	+++++	0.10519	0.000
29 pcb1248-1	+++++	+++++	0.02598	+++++	+++++	+++++	+++++	0.02598	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
30 pcb1248-2	+++++	+++++	0.02011	+++++	+++++	+++++	+++++	0.02011	0.000
31 pcb1248-3	+++++	+++++	0.04296	+++++	+++++	+++++	+++++	0.04296	0.000
32 pcb1248-4	+++++	+++++	0.01614	+++++	+++++	+++++	+++++	0.01614	0.000
M 33 pcb1254	+++++	+++++	0.28280	+++++	+++++	+++++	+++++	0.28280	0.000
34 pcb1254-1	+++++	+++++	0.04931	+++++	+++++	+++++	+++++	0.04931	0.000
35 pcb1254-2	+++++	+++++	0.07401	+++++	+++++	+++++	+++++	0.07401	0.000
36 pcb1254-3	+++++	+++++	0.07795	+++++	+++++	+++++	+++++	0.07795	0.000
37 pcb1254-4	+++++	+++++	0.08153	+++++	+++++	+++++	+++++	0.08153	0.000
$ 2 TCMX	1.45494	1.35907	1.43079	1.36632	1.38480	1.39996	1.34976	1.39223	2.799
$ 38 DCB	1.19011	1.04305	1.10952	1.05229	1.06372	1.08714	1.04634	1.08460	4.825

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 5.87170553                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Start Cal Date: 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
22-MAY-2009 19:06	CCV	/chem/gcp.i/22May2009.b/P052203b.d

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204b.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 5.00000		
22-MAY-2009 23:59	1254NS	/chem/gcp.i/22May2009.b/P052214b.d
22-MAY-2009 23:33	1248NS	/chem/gcp.i/22May2009.b/P052213b.d
22-MAY-2009 23:06	1232NS	/chem/gcp.i/22May2009.b/P052212b.d
22-MAY-2009 22:39	1221NS	/chem/gcp.i/22May2009.b/P052211b.d
22-MAY-2009 19:59	CCV	/chem/gcp.i/22May2009.b/P052205b.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206b.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207b.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208b.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 15.00000		
22-MAY-2009 21:46	CCV	/chem/gcp.i/22May2009.b/P052209b.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206ab.d
Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206b.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

2nd Source : P052603b

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203b.d
Level 2: /chem/gcp.i/22May2009.b/P052204b.d
Level 3: /chem/gcp.i/22May2009.b/P052214b.d
Level 4: /chem/gcp.i/22May2009.b/P052206b.d
Level 5: /chem/gcp.i/22May2009.b/P052207b.d
Level 6: /chem/gcp.i/22May2009.b/P052208b.d
Level 7: /chem/gcp.i/22May2009.b/P052209b.d

See Calibration History

PCB 1221 - P052211b
1232 - P052212b
1248 - P052213b
1254 - P052214b
~~1242~~ 1242 - P052215b info only

Based on 1uL injection

Compound (units in ppm)	1.000 Level 1 / 15.000 Level 7	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	RRF	% RSD
M 3 pcb1016/1242	0.21274	0.18605	0.19481	0.18515	0.18496	0.18723		
	0.18005						0.19014	5.728
4 pcb1016/1242-1	0.05469	0.05010	0.05085	0.04751	0.04699	0.04757		
	0.04534						0.04901	6.379
5 pcb1016/1242-2	0.06728	0.05990	0.06415	0.06172	0.06202	0.06285		
	0.06068						0.06266	3.931
6 pcb1016/1242-3	0.05286	0.04450	0.04611	0.04372	0.04360	0.04403		
	0.04244						0.04532	7.730
7 pcb1016/1242-4	0.03792	0.03155	0.03370	0.03220	0.03234	0.03278		
	0.03159						0.03315	6.714
M 8 pcb1260	0.39538	0.34165	0.36181	0.33885	0.34155	0.34685		
	0.33448						0.35151	6.033
9 pcb1260-1	0.08096	0.06846	0.07059	0.06518	0.06519	0.06573		
	0.06308						0.06846	8.815

rm 6/1/09

6/1/09

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

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IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: NA
		Back: ↓			Back:
1685-32D-5C	Decafluorodiphenyl Ether	Front: 213202271892		DDT	Front:
		Back: 620966655662			Back: ↓
NA	NA	Front: NA		must be ≤15%	
		Back: ↓			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed (GMT)	Time Analyzed	Review Init.	Comments
1	✓	P052201	Hexane Wash	1	1.0	RM	5/22/09	1812	LA	
2	✓	02	Hexane Blank	2				1839		
3	✓	03	1685-137-1.0	3				1906		
4	✓	04	-3.0	4				1932		
5	✓	05	-5.0	5				1959		
6	✓	06	-8.0	6				2026		CCV.
7	✓	07	-10	7				2053		
8	✓	08	-12	8				2119		
9	✓	09	-15	9				2146		
10	X	10	1685-128-5.0 PCB LCS	10				2213		surr ↑
11	✓	11	1685-121-5.0,1221	11				2239		
12	✓	12	1685-121-5.0,1232	12				2306		
13	✓	13	,1248	13				2333		
14	✓	14	,1254	14				2359		
15	✓	15	,1242	15			5/23/09	0026		
16										
17										
18										
19										
20										
21										
22										
23										
24							RM 5/26/09			

Calculation Check: File ID: P052206 Compound: pcb 1016/1242 Initials: LA

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (182227198359) / (213202271892) × (2.00) / (0.23171) = **7.66**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (7.66) × (1000) / (1000) × (1.00) = **7.66**

Reported Result = 7.66

Signed: Lynette Antonicelli

Date: 5/22/09

Revised: 02/27/06

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

85

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 5.77%
		Back: ↓			Back: 5.97%
1685-320-50	Decafluorodiphenyl Ether	Front: 18898128504		DDT	Front: 8.40%
		Back: 5731711199			Back: 6.48%
NA	NA	Front: NA		must be ≤15%	
		Back: ↓			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed (GMT)	Review Init.	Comments
1	✓	P052601	Hexane Wash	1	1.0	LA	5/26/09	1549	LA	
2	✓	02	1685-137-8.0 PCB CCV	2				1616		
3	✓	03	1685-153-8.0 PCB LCS	3				1643		
4	✓	04	1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05	Hexane Wash	1		nm		2054		
6	✓	06	1685-143-0.8 tune	2				2120		
7	✓	07	1685-135-0.6 Pest CCV	3				2147		
8	✓	08	Hexane Blank	4				2214		
9	✓	09	0905530B-Blank	5			↓	2341		
10	X	10	-Pest LCS	6			5/27/09	0008		13 ~~Low~~ low nm 5/27/09
11	✓	11	-05A	7				0035		
12	✓	12	-06A	8				0102		
13	✓	13	-07A	9				0128		
14	✓	14	-08A	10				0155		
15	✓	15	-08AA	10				0222		
16	✓	16	1685-135-0.6 Pest CCV	11		↓		0248		
17	✓	17	Hexane Wash	12		LA		1526		
18	✓	18	0905530B-LCS	13				1553		
19	✓	19	1685-135-0.6 Pest CCV	14		↓		1620		
20	✓	20	Hexane Blank	15		nm		1802		
21	✓	21	0905530A-05AA	16				1829		
22	✓	22	1685-135-0.6 Pest CCV	17	↓	↓	↓	1855		
23										
24								LA 5/27/09		

Calculation Check: File ID: V052619 Compound: a-BHC Initials: nm

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (14405587052) / (18047703541) × (2.00) / (2.786091) = **0.65234**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.65234) × (1000) × (1) / (1000) = **0.65234**

Reported Result = _____

nmoonan
Signed

5/27/09
Date

0233

Revised: 02/27/06

Before

~~WS~~ W. 611109

After

Correct Baseline	N/A
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

W 6/1/09

SS 6/1/09

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/26May2009.b/P052603b.d
Lab Smp Id: 1685-153-8.0 PCB Client Smp ID: LCS
Inj Date : 26-MAY-2009 16:43
Operator : LA Inst ID: gcp.i
Smp Info : 1685-153-8.0 PCB LCS
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 13:09 lantonic Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	5.843	5.842	(0.372)	6475554236	1.62834	1.63
M 3 pcb1016/1242				4057436883	7.47058	7.47
4 pcb1016/1242-1	6.937	6.935	(0.441)	1062666558	7.59123	7.59
5 pcb1016/1242-2	7.718	7.715	(0.491)	1322009893	7.38644	7.39
6 pcb1016/1242-3	7.942	7.940	(0.505)	951722152	7.35160	7.35
7 pcb1016/1242-4	8.651	8.649	(0.550)	721038278	7.61389	7.61
M 8 pcb1260				7975741662	7.94348	7.94
9 pcb1260-1	10.707	10.705	(0.681)	1467848046	7.50646	7.51
10 pcb1260-2	11.130	11.128	(0.708)	2156360856	7.26234	7.26
11 pcb1260-3	12.074	12.072	(0.768)	1382122259	8.46368	8.46
12 pcb1260-4	12.502	12.501	(0.795)	2969410500	8.52561	8.52
$ 38 DCB	14.397	14.395	(0.916)	5000855168	1.61419	1.61
* 39 Decachlorodiphenyl Ether	15.722	15.719	(1.000)	5712825214	2.00000	

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052603b.d
Lab Smp Id: 1685-153-8.0 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 26-MAY-2009
Calibration Time: 16:16
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	5474794735	2737397367	10949589470	5712825214	4.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 26May2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-153-8.0 PCB
Client Smp ID: LCS
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	1.60	1.63	101.77	85-115
M 3 pcb1016/1242	8.00	7.47	93.38	85-115
4 pcb1016/1242-1	8.00	7.59	94.89	85-115
5 pcb1016/1242-2	8.00	7.39	92.33	85-115
6 pcb1016/1242-3	8.00	7.35	91.89	85-115
7 pcb1016/1242-4	8.00	7.61	95.17	85-115
M 8 pcb1260	8.00	7.94	99.29	85-115
9 pcb1260-1	8.00	7.51	93.83	85-115
10 pcb1260-2	8.00	7.26	90.78	85-115
11 pcb1260-3	8.00	8.46	105.80	85-115
12 pcb1260-4	8.00	8.52	106.57	85-115
$ 38 DCB	1.60	1.61	100.89	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	1.63	101.77	60-120
$ 38 DCB	0.600	1.61	100.89	60-120

Data File: /chem/gcp.i/26May2009.b/P052603b.d

Date : 26-MAY-2009 16:43

Client ID: LCS

Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

0239

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052203b.d
Lab Smp Id: 1685-137-1.0
Inj Date : 22-MAY-2009 19:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-1.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:35 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203b.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	839893391	0.20000	0.209
M 3 pcb1016/1242				614054225	1.00000	1.12
4 pcb1016/1242-1	6.940	6.940	(0.441)	157853813	1.00000	1.12
5 pcb1016/1242-2	7.735	7.721	(0.492)	194186812	1.00000	1.07(M)
6 pcb1016/1242-3	7.960	7.945	(0.506)	152570380	1.00000	1.17
7 pcb1016/1242-4	8.654	8.655	(0.550)	109443220	1.00000	1.14
M 8 pcb1260				1141191489	1.00000	1.12
9 pcb1260-1	10.709	10.710	(0.681)	233670240	1.00000	1.18
10 pcb1260-2	11.134	11.133	(0.708)	341927793	1.00000	1.14
11 pcb1260-3	12.075	12.077	(0.768)	188146662	1.00000	1.14
12 pcb1260-4	12.505	12.505	(0.795)	377446794	1.00000	1.07
$ 38 DCB	14.396	14.400	(0.916)	687013308	0.20000	0.219
* 39 Decachlorodiphenyl Ether	15.721	15.725	(1.000)	5772702923	2.00000	

QC Flag Legend

M - Compound response manually integrated.

Report Date: 01-Jun-2009 12:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052203b.d
Lab Smp Id: 1685-137-1.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	5772702923	-7.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.72	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052203b.d

Date : 22-MAY-2009 19:06

Client ID:

Sample Info: 1685-137-1.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0243

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052204b.d
Lab Smp Id: 1685-137-3.0
Inj Date : 22-MAY-2009 19:32
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-3.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:32 Cal File: P052204b.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	2454083005	0.60000	0.586
M 3 pcb1016/1242				1679773748	3.00000	2.94
4 pcb1016/1242-1	6.940	6.940	(0.441)	452313384	3.00000	3.07
5 pcb1016/1242-2	7.726	7.721	(0.491)	540836660	3.00000	2.87
6 pcb1016/1242-3	7.949	7.945	(0.506)	401739977	3.00000	2.94
7 pcb1016/1242-4	8.654	8.655	(0.550)	284883727	3.00000	2.86
M 8 pcb1260				3084643993	3.00000	2.92
9 pcb1260-1	10.710	10.710	(0.681)	618131818	3.00000	3.00
10 pcb1260-2	11.134	11.133	(0.708)	920962423	3.00000	2.94
11 pcb1260-3	12.076	12.077	(0.768)	504336504	3.00000	2.93
12 pcb1260-4	12.505	12.505	(0.795)	1041213248	3.00000	2.84
$ 38 DCB	14.399	14.400	(0.916)	1883452023	0.60000	0.577
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6019039360	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052204b.d
Lab Smp Id: 1685-137-3.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 19:32

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6019039360	3009519680	12038078720	6019039360	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052204b.d

Date : 22-MAY-2009 19:32

Client ID:

Sample Info: 1685-137-3.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0246

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052214b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1254
Inj Date : 22-MAY-2009 23:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1254
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:35 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1254NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 33 pcb1254				4452229211	5.00000	5.00
34 pcb1254-1	9.331	9.345	(0.593)	776232959	5.00000	5.00
35 pcb1254-2	9.770	9.801	(0.621)	1165229563	5.00000	5.00
36 pcb1254-3	10.432	10.432	(0.663)	1227145810	5.00000	5.00
37 pcb1254-4	11.564	11.593	(0.735)	1283620879	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.728	15.725	(1.000)	6297319512	2.00000	

Report Date: 01-Jun-2009 11:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052214b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1254
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6297319512	1.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052214b.d

Date : 22-MAY-2009 23:59

Client ID: PCB 1254

Sample Info: 1685-121-5.0 PCB 1254

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0249

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052213b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1248
Inj Date : 22-MAY-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1248
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1248NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 28 pcb1248				1715292178	5.00000	5.00
29 pcb1248-1	8.365	8.485	(0.532)	423689854	5.00000	5.00
30 pcb1248-2	9.271	9.295	(0.590)	327911370	5.00000	5.00
31 pcb1248-3	9.417	9.417	(0.599)	700493056	5.00000	5.00
32 pcb1248-4	10.237	10.255	(0.651)	263197898	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.727	15.725	(1.000)	6522634623	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052213b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1248
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6522634623	5.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052213b.d

Date : 22-MAY-2009 23:33

Client ID: PCB 1248

Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0252

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052212b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1232
Inj Date : 22-MAY-2009 23:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1232
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1232NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 18 pcb1232				637480447	5.00000	5.00
19 pcb1232-1	7.288	7.394	(0.463)	145074950	5.00000	5.00
20 pcb1232-2	8.069	8.069	(0.513)	205917937	5.00000	5.00
21 pcb1232-3	8.254	8.254	(0.525)	139150535	5.00000	5.00
22 pcb1232-4	8.302	8.302	(0.528)	147337025	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.726	15.725	(1.000)	6594321184	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052212b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1232
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6594321184	6.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0255

Data File: /chem/gcp.i/22May2009.b/P052212b.d
Date : 22-MAY-2009 23:06
Client ID: PCB 1232
Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052211b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1221
Inj Date : 22-MAY-2009 22:39
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1221
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1221NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 13 pcb1221				947323288	5.00000	5.00
14 pcb1221-1	5.054	5.127	(0.321)	140824400	5.00000	5.00
15 pcb1221-2	6.105	6.191	(0.388)	210754016	5.00000	5.00
16 pcb1221-3	6.332	6.348	(0.403)	110226929	5.00000	5.00
17 pcb1221-4	6.398	6.488	(0.407)	485517943	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.727	15.725	(1.000)	6380074891	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052211b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1221
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6380074891	2.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052211b.d

Date : 22-MAY-2009 22:39

Client ID: PCB 1221

Sample Info: 1685-121-5.0 PCB 1221

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0258

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052205b.d
Lab Smp Id: 1685-137-5.0
Inj Date : 22-MAY-2009 19:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-5.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	4355015098	1.00000	1.03
M 3 pcb1016/1242				2964881217	5.00000	5.12
4 pcb1016/1242-1	6.939	6.940	(0.441)	773824679	5.00000	5.19
5 pcb1016/1242-2	7.722	7.721	(0.491)	976359954	5.00000	5.12
6 pcb1016/1242-3	7.946	7.945	(0.505)	701787152	5.00000	5.09
7 pcb1016/1242-4	8.654	8.655	(0.550)	512909432	5.00000	5.08
M 8 pcb1260				5506374392	5.00000	5.15
9 pcb1260-1	10.709	10.710	(0.681)	1074372980	5.00000	5.16
10 pcb1260-2	11.133	11.133	(0.708)	1629373246	5.00000	5.15
11 pcb1260-3	12.075	12.077	(0.768)	890865907	5.00000	5.12
12 pcb1260-4	12.504	12.505	(0.795)	1911762259	5.00000	5.15
$ 38 DCB	14.398	14.400	(0.916)	3377158256	1.00000	1.02
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6087587940	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052205b.d
Lab Smp Id: 1685-137-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 23:59

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6087587940	3043793970	12175175881	6087587940	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052205b.d

Date : 22-MAY-2009 19:59

Client ID:

Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0261

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052206b.d
Lab Smp Id: 1685-137-8.0
Inj Date : 22-MAY-2009 20:26
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-8.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:26 Cal File: P052206b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.846	5.846	(0.372)	6786897116	1.60000	1.57
M 3 pcb1016/1242				4598335068	8.00000	7.79
4 pcb1016/1242-1	6.940	6.940	(0.441)	1180015836	8.00000	7.76
5 pcb1016/1242-2	7.721	7.721	(0.491)	1532795221	8.00000	7.88
6 pcb1016/1242-3	7.945	7.945	(0.505)	1085853239	8.00000	7.72
7 pcb1016/1242-4	8.655	8.655	(0.550)	799670772	8.00000	7.77
M 8 pcb1260				8415902970	8.00000	7.71
9 pcb1260-1	10.710	10.710	(0.681)	1618933012	8.00000	7.62
10 pcb1260-2	11.133	11.133	(0.708)	2475314443	8.00000	7.67
11 pcb1260-3	12.077	12.077	(0.768)	1360692137	8.00000	7.67
12 pcb1260-4	12.505	12.505	(0.795)	2960963378	8.00000	7.82
$ 38 DCB	14.400	14.400	(0.916)	5227002032	1.60000	1.55
* 39 Decachlorodiphenyl Ether	15.725	15.725	(1.000)	6209085211	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052206b.d
Lab Smp Id: 1685-137-8.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6209085211	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052206b.d

Date : 22-MAY-2009 20:26

Client ID:

Sample Info: 1685-137-8.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0264

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052207b.d
Lab Smp Id:
Inj Date : 22-MAY-2009 20:53
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-10
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:53 Cal File: P052207b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	8663720233	2.00000	1.99
M 3 pcb1016/1242				5785850656	10.0000	9.73
4 pcb1016/1242-1	6.940	6.940	(0.441)	1470014364	10.0000	9.59
5 pcb1016/1242-2	7.720	7.721	(0.491)	1940209535	10.0000	9.90
6 pcb1016/1242-3	7.944	7.945	(0.505)	1363926433	10.0000	9.62
7 pcb1016/1242-4	8.654	8.655	(0.550)	1011700324	10.0000	9.76
M 8 pcb1260				10684131643	10.0000	9.72
9 pcb1260-1	10.710	10.710	(0.681)	2039266507	10.0000	9.52
10 pcb1260-2	11.133	11.133	(0.708)	3147090602	10.0000	9.68
11 pcb1260-3	12.076	12.077	(0.768)	1727028028	10.0000	9.66
12 pcb1260-4	12.504	12.505	(0.795)	3770746506	10.0000	9.88
$ 38 DCB	14.399	14.400	(0.916)	6654959184	2.00000	1.96
* 39 Decachlorodiphenyl Ether	15.725	15.725	(1.000)	6256297503	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052207b.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6256297503	0.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0267

Data File: /chem/gcp.i/22May2009.b/P052207b.d
Date : 22-MAY-2009 20:53
Client ID:
Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052208b.d
Lab Smp Id: 1685-137-12
Inj Date : 22-MAY-2009 21:19
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-12
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:19 Cal File: P052208b.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	10179829291	2.40000	2.41
M 3 pcb1016/1242				6807108544	12.0000	11.8
4 pcb1016/1242-1	6.939	6.940	(0.441)	1729630176	12.0000	11.6
5 pcb1016/1242-2	7.719	7.721	(0.491)	2285114861	12.0000	12.0
6 pcb1016/1242-3	7.943	7.945	(0.505)	1600673108	12.0000	11.6
7 pcb1016/1242-4	8.653	8.655	(0.550)	1191690399	12.0000	11.9
M 8 pcb1260				12610841780	12.0000	11.8
9 pcb1260-1	10.709	10.710	(0.681)	2389888028	12.0000	11.5
10 pcb1260-2	11.132	11.133	(0.708)	3705820834	12.0000	11.8
11 pcb1260-3	12.076	12.077	(0.768)	2042093212	12.0000	11.8
12 pcb1260-4	12.504	12.505	(0.795)	4473039706	12.0000	12.1
$ 38 DCB	14.398	14.400	(0.916)	7905168214	2.40000	2.40
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6059616165	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052208b.d
Lab Smp Id: 1685-137-12
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6059616165	-2.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.72	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052208b.d

Date : 22-MAY-2009 21:19

Client ID:

Sample Info: 1685-137-12

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0270

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052209b.d
Lab Smp Id: 1685-137-15
Inj Date : 22-MAY-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-15
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:46 Cal File: P052209b.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.846	5.846	(0.372)	12544560952	3.00000	2.91
M 3 pcb1016/1242				8366705939	15.0000	14.2
4 pcb1016/1242-1	6.939	6.940	(0.441)	2107028249	15.0000	13.9
5 pcb1016/1242-2	7.719	7.721	(0.491)	2819881874	15.0000	14.5
6 pcb1016/1242-3	7.943	7.945	(0.505)	1972015274	15.0000	14.0
7 pcb1016/1242-4	8.654	8.655	(0.550)	1467780542	15.0000	14.3
M 8 pcb1260				15543310297	15.0000	14.3
9 pcb1260-1	10.709	10.710	(0.681)	2931495637	15.0000	13.8
10 pcb1260-2	11.132	11.133	(0.708)	4550319841	15.0000	14.1
11 pcb1260-3	12.076	12.077	(0.768)	2529998787	15.0000	14.3
12 pcb1260-4	12.505	12.505	(0.795)	5531496031	15.0000	14.6
$ 38 DCB	14.400	14.400	(0.916)	9724551070	3.00000	2.89
* 39 Decachlorodiphenyl Ether	15.726	15.725	(1.000)	6195939552	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052209b.d
Lab Smp Id: 1685-137-15
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6195939552	-0.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052209b.d

Date : 22-MAY-2009 21:46

Client ID:

Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0273

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 14-JUL-2009 18:36
Lab File ID: P071403.d Init. Cal. Date(s): 22-MAY-2009 22-MAY-2009
Analysis Type: AIR Init. Cal. Times: 19:06 23:59
Lab Sample ID: 1685-137A-5 PCB Quant Type: ISTD
Method: /chem/gcp.i/14Jul2009.b/p09p0522.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 TCMX	1.55926	1.55879	0.010	0.02979	15.00000	Averaged
M 3 pcb1016/1242	0.22650	0.21802	0.010	3.74563	15.00000	Averaged
4 pcb1016/1242-1	0.03648	0.03559	0.010	2.43804	15.00000	Averaged
5 pcb1016/1242-2	0.09165	0.08494	0.010	7.31740	15.00000	Averaged
6 pcb1016/1242-3	0.05699	0.05787	0.010	-1.54730	15.00000	Averaged
7 pcb1016/1242-4	0.04139	0.03962	0.010	4.27768	15.00000	Averaged
M 8 pcb1260	0.36669	0.33836	0.010	7.72363	15.00000	Averaged
9 pcb1260-1	0.07592	0.07071	0.010	6.86813	15.00000	Averaged
10 pcb1260-2	0.09265	0.08644	0.010	6.69959	15.00000	Averaged
11 pcb1260-3	0.06766	0.06175	0.010	8.73870	15.00000	Averaged
12 pcb1260-4	0.13045	0.11946	0.010	8.42236	15.00000	Averaged
$ 38 DCB	1.04743	0.94671	0.010	9.61567	15.00000	Averaged

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071403.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 14-JUL-2009 18:36
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.009	6.009	(0.352)	14534804351	1.00000	1.000
M 3 pcb1016/1242				10164531610	5.00000	4.81
4 pcb1016/1242-1	7.418	7.418	(0.434)	1659285211	5.00000	4.88
5 pcb1016/1242-2	8.217	8.217	(0.481)	3960061889	5.00000	4.63
6 pcb1016/1242-3	8.453	8.453	(0.495)	2698215713	5.00000	5.08
7 pcb1016/1242-4	9.285	9.285	(0.544)	1846968797	5.00000	4.79
M 8 pcb1260				15775214890	5.00000	4.61
9 pcb1260-1	11.349	11.349	(0.665)	3296642550	5.00000	4.66
10 pcb1260-2	11.657	11.657	(0.683)	4030183393	5.00000	4.66
11 pcb1260-3	12.729	12.729	(0.746)	2878929996	5.00000	4.56
12 pcb1260-4	13.067	13.067	(0.765)	5569458952	5.00000	4.58
$ 38 DCB	15.403	15.403	(0.902)	8827482165	1.00000	0.904
* 39 Decachlorodiphenyl Ether	17.074	17.074	(1.000)	18648773486	2.00000	

Report Date: 14-Jul-2009 15:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071403.d
Lab Smp Id: 1685-137A-5 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	18648773486	9324386743	37297546971	18648773486	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.07	16.57	17.57	17.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/14Jul2009.b/P071403.d

Date : 14-JUL-2009 18:36

Client ID: CCV

Sample Info: 1685-137A-5 PCB

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0277

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 14-JUL-2009 18:36
Lab File ID: P071403b.d Init. Cal. Date(s): 22-MAY-2009 22-MAY-2009
Analysis Type: AIR Init. Cal. Times: 19:06 23:59
Lab Sample ID: 1685-137A-5 PCB Quant Type: ISTD
Method: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 TCMX	1.39223	1.34891	0.010	3.11147	15.00000	Averaged
M 3 pcb1016/1242	0.19014	0.18255	0.010	3.99198	15.00000	Averaged
4 pcb1016/1242-1	0.04901	0.04760	0.010	2.87318	15.00000	Averaged
5 pcb1016/1242-2	0.06266	0.06070	0.010	3.11984	15.00000	Averaged
6 pcb1016/1242-3	0.04532	0.04295	0.010	5.23907	15.00000	Averaged
7 pcb1016/1242-4	0.03315	0.03130	0.010	5.58927	15.00000	Averaged
M 8 pcb1260	0.35151	0.32568	0.010	7.34911	15.00000	Averaged
9 pcb1260-1	0.06846	0.06468	0.010	5.51260	15.00000	Averaged
10 pcb1260-2	0.10395	0.09705	0.010	6.63518	15.00000	Averaged
11 pcb1260-3	0.05717	0.05210	0.010	8.87321	15.00000	Averaged
12 pcb1260-4	0.12193	0.11184	0.010	8.27424	15.00000	Averaged
$ 38 DCB	1.08460	0.97132	0.010	10.44420	15.00000	Averaged

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071403b.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 14-JUL-2009 18:36
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.829	5.829	(0.371)	5463121731	1.00000	0.969
M 3 pcb1016/1242				3696669693	5.00000	4.80
4 pcb1016/1242-1	6.922	6.922	(0.441)	963894204	5.00000	4.86
5 pcb1016/1242-2	7.702	7.702	(0.491)	1229248975	5.00000	4.84
6 pcb1016/1242-3	7.925	7.925	(0.505)	869688011	5.00000	4.74
7 pcb1016/1242-4	8.632	8.632	(0.550)	633838503	5.00000	4.72
M 8 pcb1260				6595012330	5.00000	4.63
9 pcb1260-1	10.691	10.691	(0.681)	1309862374	5.00000	4.72
10 pcb1260-2	11.114	11.114	(0.708)	1965321586	5.00000	4.67
11 pcb1260-3	12.058	12.058	(0.768)	1054966898	5.00000	4.56
12 pcb1260-4	12.487	12.487	(0.795)	2264861472	5.00000	4.59
$ 38 DCB	14.380	14.380	(0.916)	3933851280	1.00000	0.896
* 39 Decachlorodiphenyl Ether	15.699	15.699	(1.000)	8100028078	2.00000	

Report Date: 14-Jul-2009 15:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071403b.d
Lab Smp Id: 1685-137A-5 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8100028078	4050014039	16200056156	8100028078	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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Data File: /chem/gcp.i/14Jul2009.b/P071403b.d
Date : 14-JUL-2009 18:36
Client ID: CCV
Sample Info: 1685-137A-5 PCB

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 14-JUL-2009 19:02
Lab File ID: P071404.d Init. Cal. Date(s): 19-MAY-2009 19-MAY-2009
Analysis Type: AIR Init. Cal. Times: 17:30 20:37
Lab Sample ID: 1685-135A-0.6 Quant Type: ISTD
Method: /chem/gcp.i/14Jul2009.b/p0910519.m

COMPOUND	RRF / AMOUNT	RF0.600	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 TCMX	1.93689	1.80674	0.010	6.71933	15.00000	Averaged
8 a-BHC	2.78691	2.70367	0.010	2.98663	15.00000	Averaged
9 g-BHC	2.59350	2.48719	0.010	4.09908	15.00000	Averaged
10 b-BHC	1.06860	1.00836	0.010	5.63685	15.00000	Averaged
11 d-BHC	2.40790	2.07446	0.010	13.84767	15.00000	Averaged
12 Heptachlor	2.36193	2.27217	0.010	3.80045	15.00000	Averaged
13 Aldrin	2.30099	2.23432	0.010	2.89763	15.00000	Averaged
14 Heptachlor Epoxide	1.98166	1.90587	0.010	3.82479	15.00000	Averaged
15 g-Chlordane	2.08862	2.01398	0.010	3.57345	15.00000	Averaged
16 a-Chlordane	1.97230	1.89440	0.010	3.95006	15.00000	Averaged
17 Endosulfan I	1.77828	1.66626	0.010	6.29945	15.00000	Averaged
18 DDE	1.89126	1.82969	0.010	3.25554	15.00000	Averaged
19 Dieldrin	1.94026	1.86204	0.010	4.03159	15.00000	Averaged
20 Endrin	1.71932	1.62728	0.010	5.35339	15.00000	Averaged
21 DDD	1.50014	1.45242	0.010	3.18068	15.00000	Averaged
22 Endosulfan II	1.59040	1.44750	0.010	8.98549	15.00000	Averaged
23 DDT	1.58418	1.45333	0.010	8.26009	15.00000	Averaged
24 Endrin Aldehyde	1.25367	1.19121	0.010	4.98207	15.00000	Averaged
25 Endosulfan Sulfate	1.40265	1.26404	0.010	9.88242	15.00000	Averaged
26 Methoxychlor	0.58781	0.53210	0.010	9.47788	15.00000	Averaged
169 Mirex	1.01591	0.93895	0.010	7.57535	15.00000	Averaged
27 Endrin Ketone	1.57764	1.48804	0.010	5.67888	15.00000	Averaged
$ 28 DCB	1.22197	1.13509	0.010	7.10993	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.88734
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071404.d
Lab Smp Id: 1685-135A-0.6 Client Smp ID: CCV
Inj Date : 14-JUL-2009 19:02
Operator : rn Inst ID: gcp.i
Smp Info : 1685-135A-0.6
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.011	6.011	(0.352)	21519041008	1.20000	1.119
8 a-BHC	7.000	7.000	(0.410)	16100914430	0.60000	0.5821
9 g-BHC	7.611	7.611	(0.446)	14811723145	0.60000	0.5754
10 b-BHC	7.755	7.755	(0.454)	6005005300	0.60000	0.5662
11 d-BHC	8.288	8.288	(0.485)	12353820029	0.60000	0.5169
12 Heptachlor	8.400	8.400	(0.492)	13531206179	0.60000	0.5772
13 Aldrin	9.005	9.005	(0.527)	13305822874	0.60000	0.5826
14 Heptachlor Epoxide	10.016	10.016	(0.586)	11349834724	0.60000	0.5770
15 g-Chlordane	10.330	10.330	(0.605)	11993682179	0.60000	0.5786
16 a-Chlordane	10.570	10.570	(0.619)	11281505414	0.60000	0.5763
17 Endosulfan I	10.667	10.667	(0.625)	9922887689	0.60000	0.5622
18 DDE	10.838	10.838	(0.635)	10896156073	0.60000	0.5805
19 Dieldrin	11.102	11.102	(0.650)	11088794492	0.60000	0.5758
20 Endrin	11.572	11.572	(0.678)	9690782118	0.60000	0.5679
21 DDD	11.729	11.729	(0.687)	8649468879	0.60000	0.5809
22 Endosulfan II	11.888	11.888	(0.696)	8620126435	0.60000	0.5461
23 DDT	12.184	12.184	(0.713)	8654863232	0.60000	0.5504
24 Endrin Aldehyde	12.377	12.377	(0.725)	7093892543	0.60000	0.5701
25 Endosulfan Sulfate	12.768	12.768	(0.748)	7527595658	0.60000	0.5407
26 Methoxychlor	13.136	13.136	(0.769)	31687694142	6.00000	5.431
169 Mirex	13.454	13.454	(0.788)	5591641949	0.60000	0.5545

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.506	13.506	(0.791)	8861598355	0.60000	0.5659
$ 28 DCB	15.404	15.404	(0.902)	13519327325	1.20000	1.115
* 29 Decachlorodiphenyl Ether	17.076	17.076	(1.000)	19850667168	2.00000	

Report Date: 14-Jul-2009 15:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071404.d
Lab Smp Id: 1685-135A-0.6
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19850667168	9925333584	39701334336	19850667168	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.08	16.58	17.58	17.08	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/14Jul2009.b/P071404.d

Date : 14-JUL-2009 19:02

Client ID: CCV

Sample Info: 1685-135A-0.6

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

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Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 14-JUL-2009 19:02
Lab File ID: P071404b.d Init. Cal. Date(s): 19-MAY-2009 19-MAY-2009
Analysis Type: AIR Init. Cal. Times: 17:30 20:37
Lab Sample ID: 1685-135A-0.6 Quant Type: ISTD
Method: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

	COMPOUND	RRF / AMOUNT	RF0.600	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$	2 TCMX	1.57624	1.62037	0.010	-2.79938	15.00000	Averaged
	8 a-BHC	2.15278	2.22099	0.010	-3.16833	15.00000	Averaged
	9 g-BHC	2.01104	2.05033	0.010	-1.95379	15.00000	Averaged
	10 b-BHC	0.80831	0.81476	0.010	-0.79839	15.00000	Averaged
	11 d-BHC	1.89263	1.67513	0.010	11.49197	15.00000	Averaged
	12 Heptachlor	1.85582	1.81600	0.010	2.14607	15.00000	Averaged
	13 Aldrin	1.79703	1.85332	0.010	-3.13274	15.00000	Averaged
	14 Heptachlor Epoxide	1.59111	1.61482	0.010	-1.49035	15.00000	Averaged
	15 g-Chlordane	1.68041	1.71565	0.010	-2.09690	15.00000	Averaged
	16 a-Chlordane	1.61821	1.64416	0.010	-1.60376	15.00000	Averaged
	18 Endosulfan I	1.50833	1.47974	0.010	1.89597	15.00000	Averaged
	17 DDE	1.48879	1.52183	0.010	-2.21907	15.00000	Averaged
	19 Dieldrin	1.62685	1.59755	0.010	1.80059	15.00000	Averaged
	20 Endrin	1.44313	1.38403	0.010	4.09575	15.00000	Averaged
	21 DDD	1.27947	1.18360	0.010	7.49288	15.00000	Averaged
	22 Endosulfan II	1.36886	1.26976	0.010	7.23959	15.00000	Averaged
	23 DDT	1.41489	1.31083	0.010	7.35449	15.00000	Averaged
	24 Endrin Aldehyde	1.14935	1.08725	0.010	5.40340	15.00000	Averaged
	26 Endosulfan Sulfate	1.26084	1.12556	0.010	10.72978	15.00000	Averaged
	25 Methoxychlor	0.63055	0.50783	0.010	19.46336	15.00000	Averaged <-
	168 Mirex	1.03015	1.00660	0.010	2.28618	15.00000	Averaged
	27 Endrin Ketone	1.57006	1.46762	0.010	6.52463	15.00000	Averaged
$	28 DCB	1.25882	1.19050	0.010	5.42696	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.89628
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071404b.d
Lab Smp Id: 1685-135A-0.6 Client Smp ID: CCV
Inj Date : 14-JUL-2009 19:02
Operator : rn Inst ID: gcp.i
Smp Info : 1685-135A-0.6
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.831	5.831	(0.371)	8181943415	1.20000	1.234
8 a-BHC	6.704	6.704	(0.427)	5607384208	0.60000	0.6190
9 g-BHC	7.225	7.225	(0.460)	5176520225	0.60000	0.6117
10 b-BHC	7.368	7.368	(0.469)	2057051202	0.60000	0.6048
11 d-BHC	7.682	7.682	(0.489)	4229232044	0.60000	0.5310
12 Heptachlor	8.045	8.045	(0.512)	4584886496	0.60000	0.5871
13 Aldrin	8.592	8.592	(0.547)	4679127360	0.60000	0.6188
14 Heptachlor Epoxide	9.674	9.674	(0.616)	4076967166	0.60000	0.6089
15 g-Chlordane	9.885	9.885	(0.630)	4331526960	0.60000	0.6126
16 a-Chlordane	10.105	10.105	(0.644)	4151040329	0.60000	0.6096
18 Endosulfan I	10.337	10.337	(0.658)	3735923354	0.60000	0.5886
17 DDE	10.222	10.222	(0.651)	3842190349	0.60000	0.6133
19 Dieldrin	10.719	10.719	(0.683)	4033377190	0.60000	0.5892
20 Endrin	11.082	11.082	(0.706)	3494283951	0.60000	0.5754
21 DDD	11.166	11.166	(0.711)	2988271675	0.60000	0.5550
22 Endosulfan II	11.423	11.423	(0.728)	3205788929	0.60000	0.5566
23 DDT	11.580	11.580	(0.738)	3309475682	0.60000	0.5559
24 Endrin Aldehyde	12.033	12.033	(0.766)	2744994227	0.60000	0.5676
26 Endosulfan Sulfate	12.646	12.646	(0.805)	2841717472	0.60000	0.5356
25 Methoxychlor	12.262	12.262	(0.781)	12821172070	6.00000	4.832
168 Mirex	12.508	12.508	(0.797)	2541376878	0.60000	0.5863

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.034	13.034	(0.830)	3705322048	0.60000	0.5608
$	28 DCB	14.381	14.381	(0.916)	6011376518	1.20000	1.135
*	29 Decachlorodiphenyl Ether	15.701	15.701	(1.000)	8415739331	2.00000	

Report Date: 14-Jul-2009 15:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071404b.d
Lab Smp Id: 1685-135A-0.6
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8415739331	4207869665	16831478662	8415739331	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/14Jul2009.b/P071404b.d

Date : 14-JUL-2009 19:02

Client ID: CCV

Sample Info: 1685-135A-0.6

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

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Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1685-137A-5 PCB
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: VOA
Data Type: GC DATA
Misc Info: None

Client SDG: 14Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) uG	Q
9999-9999-098	pcb1016/1242	4.52	
----------	pcb1016/1242-1	4.78	
----------	pcb1016/1242-2	4.55	
----------	pcb1016/1242-3	4.27	
----------	pcb1016/1242-4	4.60	
11096-82-5	pcb1260	4.34	
----------	pcb1260-1	4.38	
----------	pcb1260-2	4.39	
----------	pcb1260-3	4.28	
----------	pcb1260-4	4.30	
877-09-8	TCMX	0.975	
2051-24-3	DCB	0.880	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071420.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 15-JUL-2009 02:27
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	6.014	6.009	(0.352)	15228730223	0.97525	0.975
M 3 pcb1016/1242				10260887625	4.52356	4.52
4 pcb1016/1242-1	7.423	7.418	(0.435)	1745854146	4.77892	4.78
5 pcb1016/1242-2	8.220	8.217	(0.481)	4172809193	4.54660	4.55
6 pcb1016/1242-3	8.457	8.453	(0.495)	2437576287	4.27083	4.27
7 pcb1016/1242-4	9.289	9.285	(0.544)	1904647998	4.59547	4.60
M 8 pcb1260				15926926700	4.33720	4.34
9 pcb1260-1	11.353	11.349	(0.665)	3334578131	4.38560	4.38
10 pcb1260-2	11.661	11.657	(0.683)	4074236335	4.39104	4.39
11 pcb1260-3	12.733	12.729	(0.745)	2898367198	4.27731	4.28
12 pcb1260-4	13.070	13.067	(0.765)	5619745036	4.30185	4.30
$ 38 DCB	15.408	15.403	(0.902)	9230391071	0.87997	0.880
* 39 Decachlorodiphenyl Ether	17.081	17.074	(1.000)	20028953138	2.00000	

Report Date: 15-Jul-2009 08:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071420.d
Lab Smp Id: 1685-137A-5 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	18648773486	9324386743	37297546971	20028953138	7.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.07	16.57	17.57	17.08	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 08:58

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-137A-5 PCB
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	1.00	0.975	97.53	85-115
M 3 pcb1016/1242	5.00	4.52	90.47	85-115
4 pcb1016/1242-1	5.00	4.78	95.58	85-115
5 pcb1016/1242-2	5.00	4.55	90.93	85-115
6 pcb1016/1242-3	5.00	4.27	85.42	85-115
7 pcb1016/1242-4	5.00	4.60	91.91	85-115
M 8 pcb1260	5.00	4.34	86.74	85-115
9 pcb1260-1	5.00	4.38	87.71	85-115
10 pcb1260-2	5.00	4.39	87.82	85-115
11 pcb1260-3	5.00	4.28	85.55	85-115
12 pcb1260-4	5.00	4.30	86.04	85-115
$ 38 DCB	1.00	0.880	88.00	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.975	97.53	60-120
$ 38 DCB	0.600	0.880	88.00	60-120

0296

Data File: /chem/gcp.i/14Jul2009.b/P071420.d
Date : 15-JUL-2009 02:27
Client ID: CCV
Sample Info: 1685-137A-5 PCB

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1685-137A-5 PCB
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: VOA
Data Type: GC DATA
Misc Info: None

Client SDG: 14Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) uG	Q
x9999-9999-098	pcb1016/1242	4.76	
----------	pcb1016/1242-1	4.70	
----------	pcb1016/1242-2	4.87	
----------	pcb1016/1242-3	4.70	
----------	pcb1016/1242-4	4.69	
x11096-82-5	pcb1260	4.51	
----------	pcb1260-1	4.57	
----------	pcb1260-2	4.59	
----------	pcb1260-3	4.41	
----------	pcb1260-4	4.46	
x877-09-8	TCMX	0.944	
x2051-24-3	DCB	0.873	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071420b.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 15-JUL-2009 02:27
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	5.835	5.829	(0.371)	6104456290	0.94393	0.944
M 3 pcb1016/1242				4200354881	4.75570	4.76
4 pcb1016/1242-1	6.928	6.922	(0.441)	1070962430	4.70453	4.70
5 pcb1016/1242-2	7.707	7.702	(0.491)	1416652453	4.86732	4.87
6 pcb1016/1242-3	7.931	7.925	(0.505)	990304239	4.70399	4.70
7 pcb1016/1242-4	8.640	8.632	(0.550)	722435756	4.69109	4.69
M 8 pcb1260				7365410228	4.51089	4.51
9 pcb1260-1	10.697	10.691	(0.681)	1452380868	4.56731	4.57
10 pcb1260-2	11.120	11.114	(0.708)	2217184048	4.59180	4.59
11 pcb1260-3	12.064	12.058	(0.768)	1170805003	4.40883	4.41
12 pcb1260-4	12.493	12.487	(0.795)	2525040307	4.45810	4.46
$ 38 DCB	14.385	14.380	(0.916)	4398891614	0.87313	0.873
* 39 Decachlorodiphenyl Ether	15.706	15.699	(1.000)	9290193941	2.00000	

Report Date: 15-Jul-2009 08:59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071420b.d
Lab Smp Id: 1685-137A-5 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8100028078	4050014039	16200056156	9290193941	14.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.71	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 08:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-137A-5 PCB
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	1.00	0.944	94.39	85-115
M 3 pcb1016/1242	5.00	4.76	95.11	85-115
4 pcb1016/1242-1	5.00	4.70	94.09	85-115
5 pcb1016/1242-2	5.00	4.87	97.35	85-115
6 pcb1016/1242-3	5.00	4.70	94.08	85-115
7 pcb1016/1242-4	5.00	4.69	93.82	85-115
M 8 pcb1260	5.00	4.51	90.22	85-115
9 pcb1260-1	5.00	4.57	91.35	85-115
10 pcb1260-2	5.00	4.59	91.84	85-115
11 pcb1260-3	5.00	4.41	88.18	85-115
12 pcb1260-4	5.00	4.46	89.16	85-115
$ 38 DCB	1.00	0.873	87.31	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.944	94.39	60-120
$ 38 DCB	0.600	0.873	87.31	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071420b.d

Date : 15-JUL-2009 02:27

Client ID: CCV

Sample Info: 1685-137A-5 PCB

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0301

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1685-135A-0.6 Pest
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type:
Data Type: GC DATA
Misc Info: None

Client SDG: 14Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
319-84-6	a-BHC	0.5923	E
58-89-9	g-BHC	0.5844	
319-85-7	b-BHC	0.5627	E
319-86-8	d-BHC	0.5771	E
76-44-8	Heptachlor	0.5760	
309-00-2	Aldrin	0.5731	
1024-57-3	Heptachlor Epoxide	0.5659	E
5103-74-2	g-Chlordane	0.5624	E
5103-71-9	a-Chlordane	0.5605	E
959-98-8	Endosulfan I	0.5469	E
72-55-9	DDE	0.5682	E
60-57-1	Dieldrin	0.5656	
72-20-8	Endrin	0.5565	
72-54-8	DDD	0.5832	E
33213-65-9	Endosulfan II	0.5215	E
50-29-3	DDT	0.5460	
7421-93-4	Endrin Aldehyde	0.5587	E
1031-07-8	Endosulfan Sulfate	0.5581	E
72-43-5	Methoxychlor	5.669	E
2385-85-5	Mirex	0.5274	E
53494-70-5	Endrin Ketone	0.5501	E
877-09-8	TCMX	1.131	
2051-24-3	DCB	1.098	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071421.d
Lab Smp Id: 1685-135A-0.6 Pest Client Smp ID: CCV
Inj Date : 15-JUL-2009 02:54
Operator : rn Inst ID: gcp.i
Smp Info : 1685-135A-0.6 Pest
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	6.013	6.011	(0.352)	23706706007	1.13076	1.131
8 a-BHC	7.001	7.000	(0.410)	17868011099	0.59232	0.5923
9 g-BHC	7.613	7.611	(0.446)	16406652039	0.58444	0.5844
10 b-BHC	7.756	7.755	(0.454)	6508988676	0.56273	0.5627
11 d-BHC	8.289	8.288	(0.485)	15041749041	0.57712	0.5771
12 Heptachlor	8.402	8.400	(0.492)	14726067504	0.57600	0.5760
13 Aldrin	9.006	9.005	(0.527)	14273537871	0.57309	0.5731
14 Heptachlor Epoxide	10.017	10.016	(0.587)	12138334992	0.56589	0.5659
15 g-Chlordane	10.331	10.330	(0.605)	12715217335	0.56243	0.5624
16 a-Chlordane	10.571	10.570	(0.619)	11966812348	0.56054	0.5605
17 Endosulfan I	10.669	10.667	(0.625)	10526875436	0.54690	0.5469
18 DDE	10.839	10.838	(0.635)	11631884563	0.56820	0.5682
19 Dieldrin	11.103	11.102	(0.650)	11879096696	0.56562	0.5656
20 Endrin	11.572	11.572	(0.678)	10357441511	0.55654	0.5565
21 DDD	11.729	11.729	(0.687)	9470120897	0.58321	0.5832
22 Endosulfan II	11.889	11.888	(0.696)	8977675096	0.52151	0.5215
23 DDT	12.184	12.184	(0.713)	9361724750	0.54595	0.5460
24 Endrin Aldehyde	12.378	12.377	(0.725)	7581585815	0.55870	0.5587
25 Endosulfan Sulfate	12.769	12.768	(0.748)	8473315043	0.55809	0.5581
26 Methoxychlor	13.136	13.136	(0.769)	36068008422	5.66874	5.669
169 Mirex	13.455	13.454	(0.788)	5799450933	0.52739	0.5274

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
27 Endrin Ketone	13.507	13.506	(0.791)	9393931733	0.55010	0.5501
$ 28 DCB	15.406	15.404	(0.902)	14520309772	1.09779	1.098
* 29 Decachlorodiphenyl Ether	17.078	17.076	(1.000)	21648402792	2.00000	

Report Date: 15-Jul-2009 09:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071421.d
Lab Smp Id: 1685-135A-0.6 Pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19850667168	9925333584	39701334336	21648402792	9.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.08	16.58	17.58	17.08	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 09:00

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 1685-135A-0.6 Pest
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV-1.spk
Quant Type: ISTD
Sublist File: pestCCV+mirex.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.200	1.131	94.23	85-115
8 a-BHC	0.6000	0.5923	98.72	85-115
10 b-BHC	0.6000	0.5627	93.79	85-115
9 g-BHC	0.6000	0.5844	97.41	85-115
11 d-BHC	0.6000	0.5771	96.19	85-115
12 Heptachlor	0.6000	0.5760	96.00	85-115
13 Aldrin	0.6000	0.5731	95.51	85-115
14 Heptachlor Epoxide	0.6000	0.5659	94.32	85-115
17 Endosulfan I	0.6000	0.5469	91.15	85-115
18 DDE	0.6000	0.5682	94.70	85-115
19 Dieldrin	0.6000	0.5656	94.27	85-115
20 Endrin	0.6000	0.5565	92.76	85-115
22 Endosulfan II	0.6000	0.5215	86.92	85-115
21 DDD	0.6000	0.5832	97.20	85-115
24 Endrin Aldehyde	0.6000	0.5587	93.12	85-115
25 Endosulfan Sulfate	0.6000	0.5581	93.02	85-115
23 DDT	0.6000	0.5460	90.99	85-115
27 Endrin Ketone	0.6000	0.5501	91.68	85-115
16 a-Chlordane	0.6000	0.5605	93.42	85-115
15 g-Chlordane	0.6000	0.5624	93.74	85-115
26 Methoxychlor	6.000	5.669	94.48	85-115
169 Mirex	0.6000	0.5274	87.90	85-115
$ 28 DCB	1.200	1.098	91.48	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	1.131	94.23	60-120
$ 28 DCB	0.6000	1.098	91.48	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071421.d

Date : 15-JUL-2009 02:54

Client ID: CCV

Sample Info: 1685-135A-0.6 Pest

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0308

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1685-135A-0.6 Pest
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type:
Data Type: GC DATA
Misc Info: None

Client SDG: 14Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
x319-84-6	a-BHC	0.6180	E
x58-89-9	g-BHC	0.6101	
x319-85-7	b-BHC	0.6011	E
x319-86-8	d-BHC	0.5903	E
x76-44-8	Heptachlor	0.5856	
x309-00-2	Aldrin	0.5982	
x1024-57-3	Heptachlor Epoxide	0.5887	E
x5103-74-2	g-Chlordane	0.5907	E
x5103-71-9	a-Chlordane	0.5864	E
x959-98-8	Endosulfan I	0.5640	E
x72-55-9	DDE	0.6114	E
x60-57-1	Dieldrin	0.5829	
x72-20-8	Endrin	0.5841	
x72-54-8	DDD	0.5922	E
x33213-65-9	Endosulfan II	0.5388	E
x50-29-3	DDT	0.5614	
x7421-93-4	Endrin Aldehyde	0.5541	E
x1031-07-8	Endosulfan Sulfate	0.5486	E
x72-43-5	Methoxychlor	5.205	E
X2385-85-5	Mirex	0.5441	E
x53494-70-5	Endrin Ketone	0.5474	E
x877-09-8	TCMX	1.211	
x2051-24-3	DCB	1.101	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071421b.d
Lab Smp Id: 1685-135A-0.6 Pest Client Smp ID: CCV
Inj Date : 15-JUL-2009 02:54
Operator : rn Inst ID: gcp.i
Smp Info : 1685-135A-0.6 Pest
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	5.833	5.831	(0.371)	9609596224	1.21131	1.211
8 a-BHC	6.706	6.704	(0.427)	6696188304	0.61802	0.6180
9 g-BHC	7.228	7.225	(0.460)	6175660470	0.61015	0.6101
10 b-BHC	7.370	7.368	(0.469)	2445397354	0.60110	0.6011
11 d-BHC	7.684	7.682	(0.489)	5623163655	0.59032	0.5903
12 Heptachlor	8.048	8.045	(0.512)	5469953813	0.58563	0.5856
13 Aldrin	8.594	8.592	(0.547)	5410545888	0.59822	0.5982
14 Heptachlor Epoxide	9.676	9.674	(0.616)	4714631805	0.58874	0.5887
15 g-Chlordane	9.887	9.885	(0.630)	4995502086	0.59066	0.5907
16 a-Chlordane	10.107	10.105	(0.644)	4775779298	0.58639	0.5864
18 Endosulfan I	10.338	10.337	(0.658)	4281431689	0.56398	0.5640
17 DDE	10.224	10.222	(0.651)	4581329974	0.61141	0.6114
19 Dieldrin	10.721	10.719	(0.683)	4772519384	0.58287	0.5829
20 Endrin	11.085	11.082	(0.706)	4242231921	0.58406	0.5841
21 DDD	11.167	11.166	(0.711)	3813591747	0.59221	0.5922
22 Endosulfan II	11.425	11.423	(0.727)	3712396056	0.53885	0.5388
23 DDT	11.582	11.580	(0.738)	3998123444	0.56145	0.5614
24 Endrin Aldehyde	12.035	12.033	(0.766)	3205373450	0.55411	0.5541
26 Endosulfan Sulfate	12.648	12.646	(0.805)	3481413751	0.54862	0.5486
25 Methoxychlor	12.264	12.262	(0.781)	16518118447	5.20491	5.205
168 Mirex	12.511	12.508	(0.797)	2820941888	0.54409	0.5441

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	27 Endrin Ketone	13.036	13.034	(0.830)	4325391520	0.54737	0.5474
$	28 DCB	14.384	14.381	(0.916)	6976578891	1.10117	1.101
*	29 Decachlorodiphenyl Ether	15.704	15.701	(1.000)	10065988660	2.00000	

Report Date: 15-Jul-2009 09:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071421b.d
Lab Smp Id: 1685-135A-0.6 Pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8415739331	4207869665	16831478662	10065988660	19.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 09:00

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 1685-135A-0.6 Pest
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV-1.spk
Quant Type: ISTD
Sublist File: pestCCV+mirex.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.200	1.211	100.94	85-115
8 a-BHC	0.6000	0.6180	103.00	85-115
10 b-BHC	0.6000	0.6011	100.18	85-115
9 g-BHC	0.6000	0.6101	101.69	85-115
11 d-BHC	0.6000	0.5903	98.39	85-115
12 Heptachlor	0.6000	0.5856	97.60	85-115
13 Aldrin	0.6000	0.5982	99.70	85-115
14 Heptachlor Epoxide	0.6000	0.5887	98.12	85-115
18 Endosulfan I	0.6000	0.5640	94.00	85-115
17 DDE	0.6000	0.6114	101.90	85-115
19 Dieldrin	0.6000	0.5829	97.15	85-115
20 Endrin	0.6000	0.5841	97.34	85-115
22 Endosulfan II	0.6000	0.5388	89.81	85-115
21 DDD	0.6000	0.5922	98.70	85-115
24 Endrin Aldehyde	0.6000	0.5541	92.35	85-115
26 Endosulfan Sulfate	0.6000	0.5486	91.44	85-115
23 DDT	0.6000	0.5614	93.57	85-115
27 Endrin Ketone	0.6000	0.5474	91.23	85-115
16 a-Chlordane	0.6000	0.5864	97.73	85-115
15 g-Chlordane	0.6000	0.5907	98.44	85-115
25 Methoxychlor	6.000	5.205	86.75	85-115
168 Mirex	0.6000	0.5441	90.68	85-115
$ 28 DCB	1.200	1.101	91.76	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	1.211	100.94	60-120
$ 28 DCB	0.6000	1.101	91.76	60-120

0315

Data File: /chem/gcp.i/14Jul2009.b/P071421b.d
Date : 15-JUL-2009 02:54
Client ID: CCV
Sample Info: 1685-135A-0.6 Pest

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907124A-06A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071413**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/14/09 04:20 PM**
		Date of Extraction: 7/9/09

Compound	%Recovery
Aldrin	85
alpha-BHC	87
beta-BHC	81
delta-BHC	85
gamma-BHC (Lindane)	84
alpha-Chlordane	85
gamma-Chlordane	85
4,4'-DDD	86
4,4'-DDE	82
4,4'-DDT	79
Dieldrin	84
Endosulfan I	72
Endosulfan II	83
Endosulfan Sulfate	81
Endrin	84
Endrin Aldehyde	64
Endrin Ketone	77
Heptachlor	87
Heptachlor Epoxide	88
4,4'-Methoxychlor	90
Toxaphene	Not Spiked
Aroclor 1016/1242	68
Aroclor-1221	Not Spiked
Aroclor-1232	Not Spiked
Aroclor-1248	Not Spiked
Aroclor-1254	Not Spiked
Aroclor-1260	74

Air Sample Volume(L): 82000

Aroclors are reported from file p071412.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	75	60-120
Decachlorobiphenyl	68	60-120

Report Date: 15-Jul-2009 10:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907123A/124A pest
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-166.spk
Quant Type: ISTD
Sublist File: LCSfull.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3478	86.94	65-125
10 b-BHC	0.4000	0.3240	81.01	65-125
9 g-BHC	0.4000	0.3373	84.32	65-125
11 d-BHC	0.4000	0.3389	84.73	65-125
12 Heptachlor	0.4000	0.3496	87.39	65-125
13 Aldrin	0.4000	0.3400	84.99	65-125
14 Heptachlor Epoxide	0.4000	0.3533	88.32	65-125
17 Endosulfan I	0.4000	0.2867	71.68	65-125
18 DDE	0.8000	0.6531	81.63	65-125
19 Dieldrin	0.8000	0.6760	84.50	65-125
20 Endrin	0.8000	0.6753	84.42	65-125
22 Endosulfan II	0.8000	0.6652	83.15	65-125
21 DDD	0.8000	0.6906	86.33	65-125
24 Endrin Aldehyde	0.8000	0.5094	63.67	20-86
25 Endosulfan Sulfate	0.8000	0.6460	80.75	65-125
23 DDT	0.8000	0.6307	78.84	65-125
27 Endrin Ketone	0.8000	0.6180	77.25	65-125
16 a-Chlordane	0.4000	0.3404	85.09	65-125
15 g-Chlordane	0.4000	0.3413	85.32	65-125
26 Methoxychlor	4.000	3.622	90.56	65-125
169 Mirex	2.000	0.000	*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.400	1.045	74.63	60-120
$ 28 DCB	2.200	1.502	68.30	60-120

Report Date: 15-Jul-2009 10:08

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907123A/124A pcb
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: LCS10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
M 3 pcb1016/1242	5.00	3.40	67.92	65-125
4 pcb1016/1242-1	5.00	3.69	73.77	65-125
5 pcb1016/1242-2	5.00	3.15	63.01*	65-125
6 pcb1016/1242-3	5.00	3.26	65.27	65-125
7 pcb1016/1242-4	5.00	3.86	77.28	65-125
M 8 pcb1260	5.00	3.73	74.55	65-125
9 pcb1260-1	5.00	3.65	72.99	65-125
10 pcb1260-2	5.00	3.38	67.68	65-125
11 pcb1260-3	5.00	4.08	81.56	65-125
12 pcb1260-4	5.00	3.84	76.70	65-125

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.564	94.10	60-120
$ 38 DCB	0.600	0.494	82.33	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071413.d
Lab Smp Id: 0907123A/124A pest Client Smp ID: LCS
Inj Date : 14-JUL-2009 23:20
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: LCSfull.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	6.011	6.011	(0.352)	19606158974	1.04485	1.045
8 a-BHC	7.000	7.000	(0.410)	9389833889	0.34778	0.3478
9 g-BHC	7.612	7.611	(0.446)	8474306214	0.33728	0.3373
10 b-BHC	7.756	7.755	(0.454)	3354569378	0.32403	0.3240
11 d-BHC	8.288	8.288	(0.485)	7906225014	0.33892	0.3389
12 Heptachlor	8.401	8.400	(0.492)	7998522232	0.34955	0.3496
13 Aldrin	9.006	9.005	(0.527)	7578730193	0.33998	0.3400
14 Heptachlor Epoxide	10.017	10.016	(0.587)	6782101439	0.35327	0.3533
15 g-Chlordane	10.331	10.330	(0.605)	6905413717	0.34127	0.3413
16 a-Chlordane	10.571	10.570	(0.619)	6503559612	0.34036	0.3404
17 Endosulfan I	10.667	10.667	(0.625)	4939240238	0.28670	0.2867
18 DDE	10.837	10.838	(0.635)	11965709721	0.65306	0.6531
19 Dieldrin	11.104	11.102	(0.650)	12707206443	0.67602	0.6760
20 Endrin	11.573	11.572	(0.678)	11248951824	0.67534	0.6753
21 DDD	11.728	11.729	(0.687)	10037515491	0.69066	0.6906
22 Endosulfan II	11.889	11.888	(0.696)	10249564921	0.66522	0.6652
23 DDT	12.184	12.184	(0.713)	9680011335	0.63072	0.6307
24 Endrin Aldehyde	12.379	12.377	(0.725)	6186416252	0.50936	0.5094
25 Endosulfan Sulfate	12.769	12.768	(0.748)	8778627690	0.64602	0.6460
26 Methoxychlor	13.136	13.136	(0.769)	20629597732	3.62258	3.622
27 Endrin Ketone	13.507	13.506	(0.791)	9445531318	0.61800	0.6180

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	15.406	15.404	(0.902)	17787877388	1.50256	1.502
* 29 Decachlorodiphenyl Ether	17.079	17.076	(1.000)	19375937427	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071412.d
Lab Smp Id: 0907123A/124A pcb Client Smp ID: LCS
Inj Date : 14-JUL-2009 22:53
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	6.013	6.009	(0.352)	8618280098	0.56459	0.564
M 3 pcb1016/1242				7530334103	3.39602	3.40
4 pcb1016/1242-1	7.421	7.418	(0.435)	1317298777	3.68864	3.69
5 pcb1016/1242-2	8.216	8.217	(0.481)	2826661712	3.15060	3.15(R)
6 pcb1016/1242-3	8.451	8.453	(0.495)	1820893322	3.26362	3.26
7 pcb1016/1242-4	9.287	9.285	(0.544)	1565480290	3.86388	3.86
M 8 pcb1260				13380810845	3.72752	3.73
9 pcb1260-1	11.351	11.349	(0.665)	2712490100	3.64937	3.65
10 pcb1260-2	11.658	11.657	(0.683)	3069447348	3.38409	3.38
11 pcb1260-3	12.732	12.729	(0.746)	2701373379	4.07815	4.08
12 pcb1260-4	13.068	13.067	(0.765)	4897500019	3.83507	3.84
$ 38 DCB	15.406	15.403	(0.902)	5064997440	0.49396	0.494
* 39 Decachlorodiphenyl Ether	17.078	17.074	(1.000)	19579313180	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 15-Jul-2009 10:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071413.d
Lab Smp Id: 0907123A/124A pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19850667168	9925333584	39701334336	19375937427	-2.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.08	16.58	17.58	17.08	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 10:08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071412.d
Lab Smp Id: 0907123A/124A pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	18648773486	9324386743	37297546971	19579313180	4.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.07	16.57	17.57	17.08	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/14Jul2009.b/P071413.d

Date : 14-JUL-2009 23:20

Client ID: LCS

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0325

Data File: /chem/gcp.i/14Jul2009.b/P071412.d

Date : 14-JUL-2009 22:53

Client ID: LCS

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0326

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071413b.d
Lab Smp Id: 0907123A/124A pest Client Smp ID: LCS
Inj Date : 14-JUL-2009 23:20
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: LCSfull.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	5.833	5.831	(0.371)	7407524448	1.10555	1.106
8 a-BHC	6.706	6.704	(0.427)	3191278901	0.34873	0.3487
9 g-BHC	7.228	7.225	(0.460)	2850637772	0.33346	0.3335
10 b-BHC	7.370	7.368	(0.469)	1208921811	0.35184	0.3518
11 d-BHC	7.683	7.682	(0.489)	2859187604	0.35539	0.3554
12 Heptachlor	8.048	8.045	(0.512)	2722855001	0.34516	0.3452
13 Aldrin	8.595	8.592	(0.547)	2608550816	0.34149	0.3415
14 Heptachlor Epoxide	9.677	9.674	(0.616)	2378831469	0.35172	0.3517
15 g-Chlordane	9.888	9.885	(0.630)	2149643166	0.30094	0.3009
16 a-Chlordane	10.108	10.105	(0.644)	2315145178	0.33657	0.3366
18 Endosulfan I	10.339	10.337	(0.658)	2171207627	0.33864	0.3386
17 DDE	10.223	10.222	(0.651)	4716609684	0.74529	0.7453
19 Dieldrin	10.722	10.719	(0.683)	4866581812	0.70373	0.7037
20 Endrin	11.085	11.082	(0.706)	4308762973	0.70238	0.7024
21 DDD	11.166	11.166	(0.711)	3572077852	0.65678	0.6568
22 Endosulfan II	11.425	11.423	(0.728)	3871782816	0.66540	0.6654
23 DDT	11.582	11.580	(0.738)	4075237931	0.67758	0.6776
24 Endrin Aldehyde	12.036	12.033	(0.766)	1946052051	0.39832	0.3983
26 Endosulfan Sulfate	12.648	12.646	(0.805)	3432337163	0.64041	0.6404
25 Methoxychlor	12.264	12.262	(0.781)	8592317300	3.20567	3.206
27 Endrin Ketone	13.036	13.034	(0.830)	4120815258	0.61744	0.6174

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	14.384	14.381	(0.916)	8357648068	1.56189	1.562
* 29 Decachlorodiphenyl Ether	15.703	15.701	(1.000)	8501609290	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071412b.d
Lab Smp Id: 0907123A/124A pcb Client Smp ID: LCS
Inj Date : 14-JUL-2009 22:53
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	5.833	5.829	(0.371)	3263810473	0.53221	0.532
M 3 pcb1016/1242				2894857863	3.45636	3.46
4 pcb1016/1242-1	6.925	6.922	(0.441)	767490511	3.55531	3.56
5 pcb1016/1242-2	7.703	7.702	(0.490)	1015047535	3.67770	3.68
6 pcb1016/1242-3	7.926	7.925	(0.505)	585248680	2.93157	2.93(R)
7 pcb1016/1242-4	8.636	8.632	(0.550)	527071136	3.60916	3.61
M 8 pcb1260				5505697348	3.55583	3.56
9 pcb1260-1	10.695	10.691	(0.681)	1109660386	3.67987	3.68
10 pcb1260-2	11.117	11.114	(0.708)	1564825350	3.41751	3.42
11 pcb1260-3	12.062	12.058	(0.768)	774394722	3.07514	3.08(R)
12 pcb1260-4	12.490	12.487	(0.795)	2056816889	3.82948	3.83
$ 38 DCB	14.384	14.380	(0.916)	2433854288	0.50944	0.509
* 39 Decachlorodiphenyl Ether	15.704	15.699	(1.000)	8809715812	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 15-Jul-2009 10:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071413b.d
Lab Smp Id: 0907123A/124A pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 19:02
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8415739331	4207869665	16831478662	8501609290	1.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 10:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071412b.d
Lab Smp Id: 0907123A/124A pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 14-JUL-2009
Calibration Time: 18:36
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8100028078	4050014039	16200056156	8809715812	8.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 10:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907123A/124A pest
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-166.spk
Quant Type: ISTD
Sublist File: LCSfull.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3487	87.18	65-125
10 b-BHC	0.4000	0.3518	87.96	65-125
9 g-BHC	0.4000	0.3335	83.37	65-125
11 d-BHC	0.4000	0.3554	88.85	65-125
12 Heptachlor	0.4000	0.3452	86.29	65-125
13 Aldrin	0.4000	0.3415	85.37	65-125
14 Heptachlor Epoxide	0.4000	0.3517	87.93	65-125
18 Endosulfan I	0.4000	0.3386	84.66	65-125
17 DDE	0.8000	0.7453	93.16	65-125
19 Dieldrin	0.8000	0.7037	87.97	65-125
20 Endrin	0.8000	0.7024	87.80	65-125
22 Endosulfan II	0.8000	0.6654	83.17	65-125
21 DDD	0.8000	0.6568	82.10	65-125
24 Endrin Aldehyde	0.8000	0.3983	49.79	20-86
26 Endosulfan Sulfate	0.8000	0.6404	80.05	65-125
23 DDT	0.8000	0.6776	84.70	65-125
27 Endrin Ketone	0.8000	0.6174	77.18	65-125
16 a-Chlordane	0.4000	0.3366	84.14	65-125
15 g-Chlordane	0.4000	0.3009	75.24	65-125
25 Methoxychlor	4.000	3.206	80.14	65-125
168 Mirex	2.000	0.000	*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.400	1.106	78.97	60-120
$ 28 DCB	2.200	1.562	70.99	60-120

Report Date: 15-Jul-2009 10:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 14Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907123A/124A pcb
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: LCS10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
M 3 pcb1016/1242	5.00	3.46	69.13	65-125
4 pcb1016/1242-1	5.00	3.56	71.11	65-125
5 pcb1016/1242-2	5.00	3.68	73.55	65-125
6 pcb1016/1242-3	5.00	2.93	58.63*	65-125
7 pcb1016/1242-4	5.00	3.61	72.18	65-125
M 8 pcb1260	5.00	3.56	71.12	65-125
9 pcb1260-1	5.00	3.68	73.60	65-125
10 pcb1260-2	5.00	3.42	68.35	65-125
11 pcb1260-3	5.00	3.08	61.50*	65-125
12 pcb1260-4	5.00	3.83	76.59	65-125

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.532	88.70	60-120
$ 38 DCB	0.600	0.509	84.91	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071413b.d

Date : 14-JUL-2009 23:20

Client ID: LCS

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0335

Data File: /chem/gcp.i/14Jul2009.b/P071412b.d

Date : 14-JUL-2009 22:53

Client ID: LCS

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0336

TO-4A/TO-10A ASE Extraction Logbook @Air Toxics Ltd. Logbook #: 1807

Date Extracted: 7/9/09
Set-up By: MJS
Spiked By: MJS
Spike Date: 7/9/09
Initial Solvent: Dichloromethane
Initial Solvent Lot#: 090321

Spike Witness: [illegible] 7/9/09
Date Witnessed: [illegible] 7/9/09
☑ *Proj.Pr./COC checked* ☑ *Spike ID Verified*
☑ *Spike Amt. Verified* ☐ *Equipment checked*
☑ *Verified Media Certified*

Final Solvent: Hexane
Final Solvent Lot#: 090185
Concentrated By: MJS
Date Concentrated: 7/10/09

ATL Sample ID #	Clients I.D. #	Car. #	PUF / XAD/Filter Lot #	Surr. ID/Conc. (µg/mL)	Surr. Amt (mL)	LCS ID/Conc. (µg/mL)	LCS Amt (mL)	Fin. Vol. (mL)	Add acid Y/N
0907123A-01A	BMI06-070309	2	P090614/F090521	981-68-2.4 V1	0.25	N/A	N/A	1.0	N
↓ -04A	BMI08-070309	2	↓	↓	↓	↓	↓	↓	↓
0907124A-01A	OFF03-070209	3	↓	↓	↓	↓	↓	↓	↓
↓ -04A	OFF04-070209	3	↓	↓	↓	↓	↓	↓	↓
0907123A 0907124A -Blk	N/A	2	P090625	↓	↓	↓	↓	↓	↓
↓ -PCB LCS	↓	2	↓	↓	↓	981-65-20	0.25	↓	↓
↓ -Pest LCS	↓	3	↓	↓	↓	981-69-0.4-4.0	1.0	↓	↓
							MJS 7/9/09		

Comments:

[signature] 7/10/09
Signed Date

0337

Revised: 4/09

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

106

Method: Mod. TO-4A/TO-10A

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: na		Endrin	Front: 3.37
		Back: na			Back: 3.52
1685-32E50	Decafluorodiphenyl Ether Pest	Front: 19850667168		DDT	Front: 8.33
		Back: 8415739331			Back: 6.65
↓	PCB	Front: 18648773486		must be ≤15%	
		Back: 8100028078			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed (GMT)	Time Analyzed	Review Init.	Comments
1	✓	P071401	Hexane Wash	1	1.0	RM	07/14/09	1742	Li	
2	✓	02	1685-143-0.8	2				1809		
3	✓	03	1685-137A-5 PCB CCV	3				1836		
4	✓	04	1685-135A-0.6 Pest CCV	4				1902		
5	✓	05	Hexane Blank	5				1929		
6	✓	06	0907047A-Blank	6				2012		
7	✓	07	-PCB LCS	7				2039		
8	X	08	-Pest LCS	8				2106		2S ↓
9	✓	09	-01A	9				2133		
10	✓	10	↓ -04A	10				2159		
11	✓	11	0907123A 0907124A -Blank	11				2226		
12	✓	12	-PCB LCS	12				2253		
13	✓	13	↓ -Pest LCS	13				2320		
14	✓	14	0907123A-01A	14			↓	2346		
15	✓	15	↓ -04A	15			07/15/09	0013		
16	✓	16	0907124A-01A	16				0040		
17	✓	17	↓ -04A	17				0107		
18	✓	18	P090703 Pest	18				0133		cut
19	✓	19	0907047A-LCS	19				0200		
20	✓	20	1685-137A-5 PCB CCV	20				0227		
21	✓	21	1685-135A-0.6 Pest CCV	21			↓	0254	↓	
22										
23										
24						Li	7/15/09			

Calculation Check: File ID: P071413 Compound: α-BHC Initials: Li

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (938983389) × (2.0) / (19375937427) (2.78691) = **0.3478**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.3478) × (1000) × (1.00) / (1000) = **0.3478**

Reported Result = 0.3478

Signed

07/15/09
Date

Revised: 02/27/06

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

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: Tetra Tech
ATTENTION: Mr. Doug Herlocker
FAX #:
FROM: Sample Receiving
Workorder #: 0907124A
# of pages (Including Cover): 1

7/20/2009

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 **Kelly Buettner at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630 ~~95360-4719~~
(916) 985-1000 FAX (916) 985-1020

0341

Page 1 of 1

Project Manager: Douglas Herlocker
Collected by: (Print and Sign) BECKI DANA
Company: Tetra Tech EMI Email: douglas.herlocker@tetratech
Address: 3380 American Ter, 201 City: BOISE State: ID Zip: 83706
Phone: 208 389 1030 Fax: 208 389 1183

Project Info:
P.O. #:
Project #: 103P0333.0006
Project Name: BMI offsite

Turn Around Time: ☑ Normal ☐ Rush _____ specify

Circle Reporting Units: ppbv ppmv ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
01A	OFF03-070209		7/2/09	0737	1638	9.01		TO4A
	OFF03-070209		↓	↓	↓	9.01		TO9A
	OFF03-070209		↓	↓	↓	9.02		TO13A
01A	OFF04-070209		↓	0705	1607	8.81		TO4A
	OFF04-070209		↓	↓	↓	8.81		TO9A
	OFF04-070209		↓	↓	↓	8.81		TO13A

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	7/6/09 1000	[signature]	7/7/09 AM 0900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		4°C	Good	Yes No None	0907124

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0907124A

Client

Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Phone

208-389-1030

Fax

Date Promised: 07/21/09
Date Completed: 7/16/09
Date Received: 7/7/09
PO#: 103P0333.005
Project#: 103P0333.006 BMI Offsite

Sales Rep: JJM

Total $: $ 720.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
01A	OFF03-070209	Modified TO-4A	7/2/2009	$360.00
04A	OFF04-070209	Modified TO-4A	7/2/2009	$360.00
05A	Lab Blank	Modified TO-4A	NA	$0.00
06A	LCS	Modified TO-4A	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Las Vegas Phase III/12356

BILL TO: Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Analysis Code: Pest/PCB

TERMS: NET 45

Reporting Method: Modified TO-4A

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

Other Records

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071402b.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 14-JUL-2009 18:09
Operator : rn Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Confirmation Column, RTX-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/BREAK.m/BREAKB.m
Meth Date : 16-Jun-2009 16:04 rnoonan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				3787361392		
M 2 Total Endrin				4325857721		
3 p,p'-DDE	10.897	10.844	0.053	38716296		
4 Endrin	11.079	11.573	-0.494	4173460967		
5 p,p'-DDD	11.166	11.735	-0.569	213179575		
6 p,p'-DDT	11.577	12.186	-0.609	3535465520		
7 Endrin Aldehyde	12.031	12.380	-0.349	10478635		
8 Endrin Ketone	13.032	13.509	-0.477	141918118		

$$\text{Endrin Breakdown} = \frac{10478635 + 141918118}{4325857721} \times 100 = 3.52\%$$

$$\text{DDT Breakdown} = \frac{38716296 + 213179575}{3787361392} \times 100 = 6.65\%$$

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071402.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 14-JUL-2009 18:09
Operator : rn Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Primary Column, RTX-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/BREAK.m
Meth Date : 16-Jun-2009 15:58 lzhang Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				9518628045		
M 2 Total Endrin				11399479436		
3 p,p'-DDE	10.841	10.848	-0.007	153861812		
4 Endrin	11.571	11.578	-0.007	11015000055		
5 p,p'-DDD	11.732	11.739	-0.007	639078859		
6 p,p'-DDT	12.184	12.190	-0.006	8725687374		
7 Endrin Aldehyde	12.378	12.386	-0.008	50027905		
8 Endrin Ketone	13.506	13.513	-0.007	334451475		

$$\text{Endrin Breakdown} = \frac{50027905 + 334451475}{11399479436} \times 100 = 3.37\%$$

$$\text{DDT Breakdown} = \frac{153861812 + 639078859}{9518628045} \times 100 = 8.33\%$$

Sample ID Number	Sample Date			Corrected Average Flow Rate-Qstd (m3/min)	Beginning Timer (hours)	Ending Timer (hours)	Total Sample Time (hours)	Total Sample Volume (m^3)	Total Sample Volume (Liters)
CAMUS1-061609 (TO-4)	6/16/2009	48	42	0.19	866.04	875.33	9.29	105.78	105,778.50
CAMUS1-061809 (TO-4)	6/18/2009	48	48	0.19	875.33	885.02	9.69	110.67	110,667.10
CAMUS1-062309 (TO-4)	6/23/2009	44	44	0.182	885.06	894.3	9.24	100.63	100,627.00
CAMUS1-062509 (TO-4)	6/25/2009	52	52	0.198	894.29	900.67	6.38	75.7	75,695.50
CAMUS1-061609 (TO-9)	6/16/2009	54	50	0.17	849.73	859.02	9.29	94.83	94,829.20
CAMUS1-061809 (TO-9)	6/18/2009	52	52	0.166	859.02	868.71	9.69	96.74	96,735.40
CAMUS1-062309 (TO-9)	6/23/2009	52	52	0.166	868.74	874.52	5.78	57.51	57,510.70
CAMUS1-062509 (TO-9)	6/25/2009	54	52	0.167	874.54	884.36	9.82	98.62	98,621.00
CAMUS1-061609 (TO-13)	6/16/2009	48	42	0.205	922.79	932.07	9.28	114.07	114,066.20
CAMUS1-061809 (TO-13)	6/18/2009	38	38	0.186	932.09	941.77	9.68	108	108,001.60
CAMUS1-062309 (TO-13)	6/23/2009	48	46	0.203	941.75	947.58	5.83	70.94	70,935.20
CAMUS1-062509 (TO-13)	6/25/2009	46	44	0.2	947.6	957.43	9.83	117.67	117,673.40
CAMUS3									
CAMUS3-061609 (TO-4)	6/16/2009	54	48	0.216	861.46	871.05	9.59	124.04	124,036.50
CAMUS3-061809 (TO-4)	6/18/2009	56	56	0.219	871.05	880.48	9.43	123.74	123,738.10
CAMUS3-092309 (TO-4)	6/23/2009	50	50	0.208	880.4	890.05	9.65	120.45	120,452.10
CAMUS3-062509 (TO-4)	6/25/2009	52	52	0.212	890.05	900.72	10.67	135.63	135,632.80
CAMUS3-061609 (TO-9)	6/16/2009	56	50	0.218	864.78	874.36	9.58	125.1	125,095.60
CAMUS3-061809 (TO-9)	6/18/2009	54	54	0.214	874.37	883.79	9.42	120.94	120,935.40
CAMUS3-062309 (TO-9)	6/23/2009	54	54	0.213	883.8	893.36	9.56	122.28	122,275.80
CAMUS3-062509 (TO-9)	6/25/2009	54	52	0.212	893.37	904.02	10.65	135.45	135,450.70
CAMUS3-061609 (TO-13)	6/16/2009	50	48	0.214	976.92	986.5	9.58	123.05	123,046.60
CAMUS3-061809 (TO-13)	6/18/2009	48	48	0.207	986.51	995.94	9.43	117.24	117,240.40
CAMUS3-062309 (TO-13)	6/23/2009	50	50	0.21	995.95	1005.5	9.55	120.31	120,307.40
CAMUS3-062509 (TO-13)	6/25/2009	52	48	0.125	1005.51	1016.18	10.67	80.3	80,299.90
OFF03									
OFF03-061609 (TO-4)	6/17/2009	44	42	0.125	310.57	320.35	9.78	73.6	73,602.00
OFF03-061809 (TO-4)	6/18/2009	NA	NA	NA	320.35	320.35	0	NA	NA
OFF03-062309 (TO-4)	6/23/2009	42	38	0.12	343.51	353.2	9.69	69.49	69,487.50
OFF03-062509 (TO-4)	6/25/2009	56	52	0.144	353.2	363.02	9.82	84.99	84,987.10
OFF03-063009 (TO-4)	6/30/2009	46	40	0.123	363.02	372.51	9.49	69.97	69,971.50
OFF03-070209 (TO-4)	7/2/2009	56	52	0.145	372.51	381.52	9.01	78.46	78,458.90
OFF03-070709 (TO-4)	7/7/2009	58	54	0.146	381.52	391.57	10.05	87.88	87,883.90
OFF03-061609 (TO-9)	6/17/2009	32	31	0.08	1531.49	1541.29	9.8	47.24	47,237.60
OFF03-061809 (TO-9)	6/18/2009	44	42	0.103	1541.29	1550.77	9.48	58.36	58,362.20
OFF03-062309 (TO-9)	6/23/2009	38	30	0.085	1570.77	1580.4	9.63	49.16	49,156.10
OFF03-062509 (TO-9)	6/25/2009	34	34	0.085	1560.49	1570.39	9.9	50.75	50,753.40
OFF03-063009 (TO-9)	6/30/2009	36	32	0.083	1570.34	1579.82	9.48	47.33	47,326.30
OFF03-070209 (TO-9)	7/2/2009	56	52	0.122	1579.82	1588.83	9.01	65.76	65,758.10
OFF03-070709 (TO-9)	7/7/2009	60	50	0.121	1588.83	1598.89	10.06	72.85	72,849.20
OFF03-061609 (TO-13)	6/17/2009	36	39	0.123	1765.17	1774.94	9.77	71.92	71,921.50
OFF03-061809 (TO-13)	6/18/2009	26	26	0.097	1774.96	1784.44	9.48	55.21	55,211.60

OFF03-062309 (TO-13)	6/23/2009	50	42	0.139	1784.44	1794.19	9.75	81.24	81,242.30
OFF03-062509 (TO-13)	6/25/2009	52	46	0.145	1794.19	1803.37	9.18	79.78	79,775.10
OFF03-063009 (TO-13)	6/30/2009	52	48	0.144	1803.4	1812.88	9.48	81.73	81,727.20
OFF03-070209 (TO-13)	7/2/2009	52	48	0.148	1812.88	1821.9	9.02	79.85	79,848.90
OFF03-070709 (TO-13)	7/7/2009	50	44	0.14	1821.9	1831.95	10.05	84.14	84,140.80
OFF04									
OFF04-061609 (TO-4)	6/17/2009	32	32	0.121	1051.77	1060.33	8.56	62.33	62,332.90
OFF04-061809 (TO-4)	6/18/2009	40	40	0.138	1060.34	1069.62	9.28	77.03	77,025.20
OFF04-092309 (TO-4)	6/23/2009	40	40	0.138	1069.62	1079.23	9.61	79.37	79,365.80
OFF04-062509 (TO-4)	6/25/2009	22	20	0.095	1079.89	1089.82	9.93	56.33	56,329.40
OFF04-063009 (TO-4)	6/30/2009	32	30	0.117	1089.82	1098.95	9.13	64.02	64,019.60
OFF04-070209 (TO-4)	7/2/2009	50	46	0.154	1098.95	1107.76	8.81	81.43	81,427.00
OFF04-070709 (TO-4)	7/7/2009	56	52	0.162	1107.76	1116.98	9.22	89.57	89,565.50
OFF04-061609 (TO-9)	6/17/2009	32	31	0.096	4556.43	4564.97	8.54	48.97	48,973.70
OFF04-061809 (TO-9)	6/18/2009	36	34	0.103	4564.97	4574.27	9.3	57.48	57,482.10
OFF04-062309 (TO-9)	6/23/2009	44	44	0.119	4574.27	4583.87	9.6	68.73	68,730.80
OFF04-062509 (TO-9)	6/25/2009	44	40	0.116	4583.88	4594.47	10.59	73.8	73,797.00
OFF04-063009 (TO-9)	6/30/2009	48	46	0.122	4594.47	4603.6	9.13	67.02	67,015.80
OFF04-070209 (TO-9)	7/2/2009	50	48	0.129	4603.6	4612.41	8.81	68.33	68,334.30
OFF04-070709 (TO-9)	7/7/2009	58	56	0.14	4612.41	4621.63	9.22	77.3	77,297.90
OFF04-061609 (TO-13)	6/17/2009	36	39	0.075	909.82	918.36	8.54	38.26	38,258.40
OFF04-061809 (TO-13)	6/18/2009	48	46	0.091	918.37	927.65	9.28	50.68	50,675.40
OFF04-062309 (TO-13)	6/23/2009	28	28	0.056	927.65	937.26	9.61	32.34	32,344.40
OFF04-062509 (TO-13)	6/25/2009	24	24	0.048	937.26	947.85	10.59	30.37	30,366.00
OFF04-063009 (TO-13)	6/30/2009	28	26	0.052	947.85	956.98	9.13	28.72	28,723.20
OFF04-070209 (TO-13)	7/2/2009	45	40	0.084	956.98	965.79	8.81	44.46	44,457.90
OFF04-070709 (TO-13)	7/7/2009	54	46	0.094	965.79	975.01	9.22	52.01	52,005.60

Compound Listing

Modified TO-4A

CAS Number	Compound	Detection Limit ug	Type
33213-65-9	Endosulfan II	0.10	
309-00-2	Aldrin	0.10	
8001-35-2	Toxaphene	1.0	
9999-9999-098	Aroclor 1016/1242	1.0	
11141-16-5	Aroclor-1232	1.0	
12672-29-6	Aroclor-1248	1.0	
11097-69-1	Aroclor-1254	1.0	
11096-82-5	Aroclor-1260	1.0	
877-09-8	2,4,5,6-Tetrachloro-m-xylene		
2051-24-3	Decachlorobiphenyl		
11104-28-2	Aroclor-1221	1.0	
319-84-6	alpha-BHC	0.10	
319-85-7	beta-BHC	0.10	
319-86-8	delta-BHC	0.10	
58-89-9	gamma-BHC (Lindane)	0.10	
5103-71-9	alpha-Chlordane	0.10	
5103-74-2	gamma-Chlordane	0.10	
72-54-8	4,4'-DDD	0.10	
72-55-9	4,4'-DDE	0.10	
50-29-3	4,4'-DDT	0.10	
60-57-1	Dieldrin	0.10	
959-98-8	Endosulfan I	0.10	
1031-07-8	Endosulfan Sulfate	0.10	
72-20-8	Endrin	0.10	
7421-93-4	Endrin Aldehyde	0.10	
53494-70-5	Endrin Ketone	0.10	
76-44-8	Heptachlor	0.10	
1024-57-3	Heptachlor Epoxide	0.10	
72-43-5	4,4'-Methoxychlor	1.0	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0907124A

A_1	A_2	R	T	M	Q	
☐	☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☑	☐	N/A ☑	☐	Sample Discrepancy Report (SDR) is completed
☐	☐	☐	☐	☐	☐	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
		☑	☐	N/A ☑	☐	Appropriate data qualifier flags are applied
		☑	☐	N/A ☑	☐	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 vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	☑	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☑		☑		Special units for all samples in the final report are correctly calculated
		☑	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☐		☑				Date MDL(s) performed per instrument(s) 3/23/09, 3/4/09, 12/19/08
☐	☐	☒				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	☐	☐				Final pressure consistent with canister size (6L vs. 1L)
☐	☐	☐				Verify receipt pressures
☐	☐	☐				Verify canister ID #'s
		☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
				☑		MDL date(s) present for all instruments utilized
		☑	☐	N/A ☑	☐	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: GMT in Target files.

Report on ug/m³, Sampling Volumes provided by the client.

T/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1:	R: 7/15/09	7/16/09	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 02/20/09

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

Not Applicable