



Electronic Comprehensive Validation Package (eCVP)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

## COMPREHENSIVE VALIDATION PACKAGE

Modified TO-4A

### INVENTORY SHEET

Work Order #: 0906709A

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Comments:

Completed by:

**Kara McKiernan**

(Signature)

Kara McKiernan / Document Control

( Print Name & Title)

7/20/09

(Date)


**WORK ORDER #: 0906709A**

Work Order Summary

<b>CLIENT:</b>	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706	<b>BILL TO:</b>	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706
<b>PHONE:</b>	208-389-1030	<b>P.O. #</b>	103P0333.005
<b>FAX:</b>		<b>PROJECT #</b>	103P0333.06 BMI
<b>DATE RECEIVED:</b>	06/30/2009	<b>CONTACT:</b>	Kelly Buettner
<b>DATE COMPLETED:</b>	07/16/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	OFF03062509	Modified TO-4A
04A	OFF04062509	Modified TO-4A
05A	Lab Blank	Modified TO-4A
06A	LCS	Modified TO-4A

CERTIFIED BY:



Laboratory Director

DATE: 07/16/09

Certification 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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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE  
Modified TO-4A  
Tetra Tech  
Workorder# 0906709A**

Two PUF Cartridge samples were received on June 30, 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 soxhlet extraction, the solvent is switched to hexane and the extract concentrated. Analysis is carried out on a HP 5890 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:

<i><b>Requirement</b></i>	<i><b>Method TO-4A</b></i>	<i><b>ATL Modifications</b></i>
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**

Sampling volume was supplied by the client. A sample volume of 85 m3 was assumed for all QC samples.

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.

Historically derived control limits for Endrin Aldehyde 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.

**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	Sample Extract		Sample Condition
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	
OFF03062509	0906709A-01A	6/25/2009	6/30/2009	7/ 1/2009	6	7/ 7/2009	6	Good
OFF04062509	0906709A-04A	6/25/2009	6/30/2009	7/ 1/2009	6	7/ 7/2009	6	Good
Lab Blank	0906709A-05A	NA	NA	7/ 1/2009	NA	7/ 7/2009	6	Good
LCS	0906709A-06A	NA	NA	7/ 1/2009	NA	7/ 7/2009	6	Good

## **Sample Results and Raw Data**





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

**Client Sample ID: OFF03062509**

**Lab ID#: 0906709A-01A**

No Detections Were Found.



Client Sample ID: OFF03062509

Lab ID#: 0906709A-01A

**MODIFIED EPA METHOD TO-4A GC/ECD**

<b>File Name:</b>	<b>P070711</b>	<b>Date of Collection:</b> 6/25/09 5:40:00 PM
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 7/7/09 05:11 PM
		<b>Date of Extraction:</b> 7/1/09

<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
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): 85000**

Aroclors were reported from file #P070711a, analyzed on 7/7/09 with a dilution factor of 1.00.

**Container Type: PUF Cartridge**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
2,4,5,6-Tetrachloro-m-xylene	95	60-120
Decachlorobiphenyl	85	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070711.d  
Lab Smp Id: 0906709A-01A  
Inj Date : 08-JUL-2009 00:11  
Operator : LZInst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Front column, Rtx-CLPesticides II  
Method : /chem/gcp.i/07Jul2009.b/p0910519.m  
Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:37Cal File: P051912.d  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: all.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.010	6.011	(0.352)	8778620201	0.56847	0.5685
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	CONCENTRATIONS					
					ON-COLUMN	FINAL
	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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	15.405	15.404	(0.902)	4954319894	0.50852	0.5085
* 29 Decachlorodiphenyl Ether	17.078	17.075	(1.000)	15945660528	2.00000	



		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( 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	15.404	(0.902)	4876827390	0.58935	0.589
* 39 Decachlorodiphenyl Ether	17.078	17.076	(1.000)	15800481248	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070711.d

Calibration Time: 20:49

Lab Smp Id: 0906709A-01A

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	18266316146	9133158073	36532632292	15945660528	-12.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070711a.d

Calibration Time: 20:22

Lab Smp Id: 0906709A-01A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17529836943	8764918472	35059673887	15800481248	-9.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 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.



Air Toxics Ltd.

RECOVERY REPORT

Client Name:

Sample Matrix: GAS

Lab Smp Id: 0906709A-01A

Level: LOW

Data Type: GC DATA

SpikeList File:

Sublist File: all.sub

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m

Misc Info: None

Client SDG: 07Jul2009

Fraction:

Operator: LZ

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.5685	94.75	60-120
\$ 28 DCB	0.6000	0.5085	84.75	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0906709A-01A	
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.627	104.44	60-120
\$ 38 DCB	0.600	0.589	98.23	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070711.d

Date : 08-JUL-2009 00:11

Client ID:

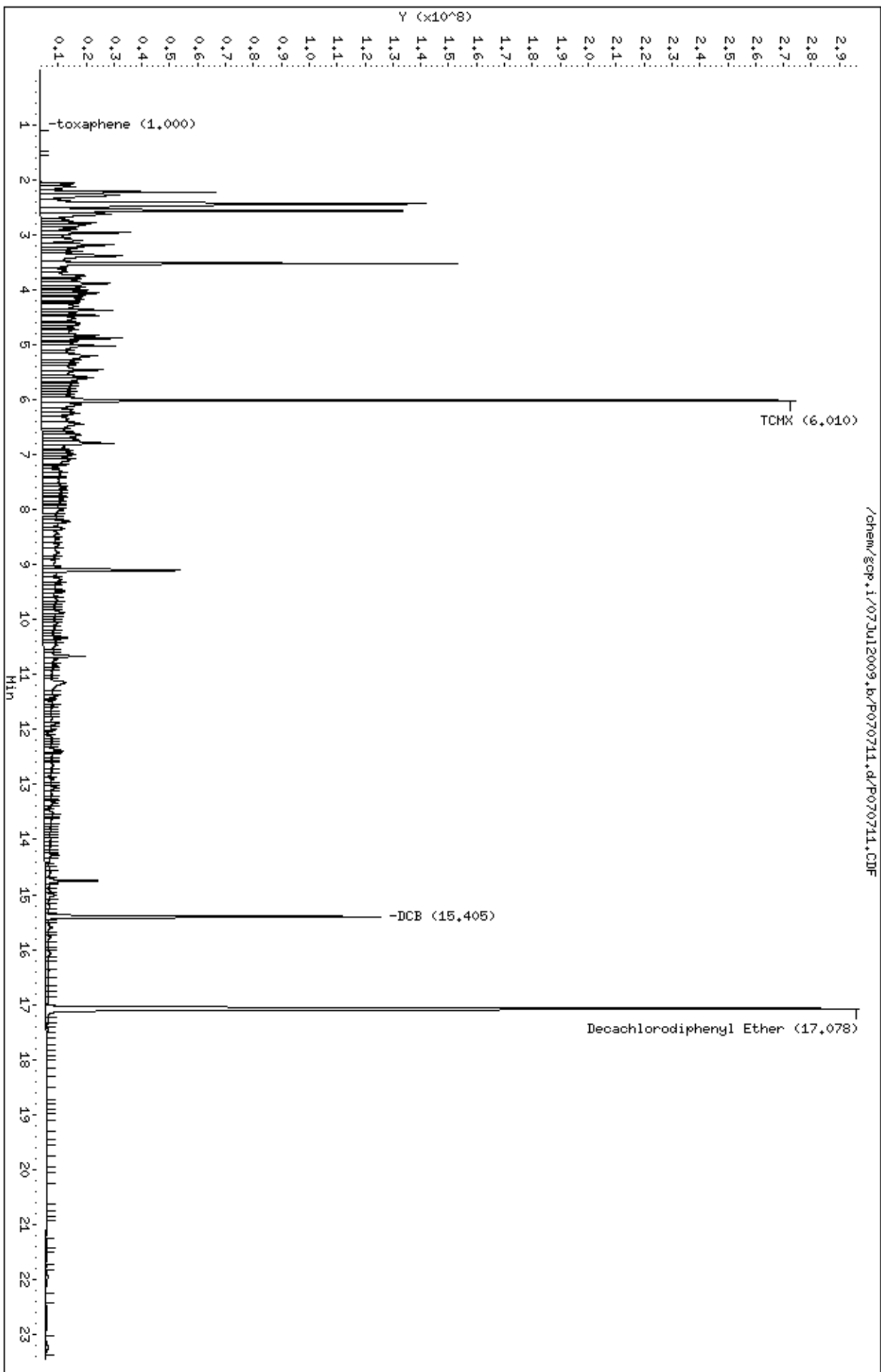
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Data File: /chem/gcp.i/07Jul2009.b/P070711a.d

Date : 08-JUL-2009 00:11

Client ID:

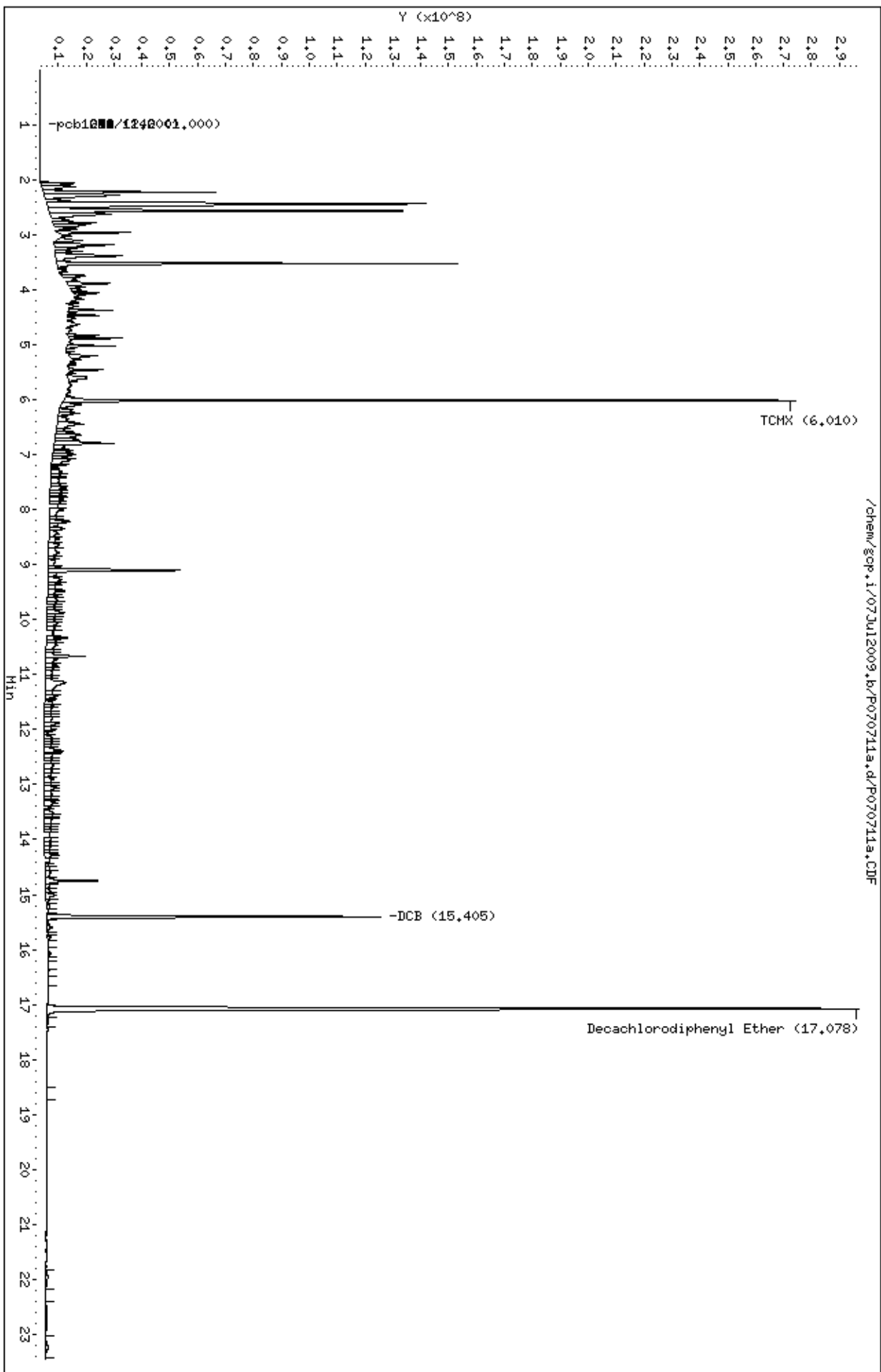
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070711b.d  
Lab Smp Id: 0906709A-01A  
Inj Date : 08-JUL-2009 00:11  
Operator : LZInst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Back column, Rtx-CLPesticides  
Method : /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m  
Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: all.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.832	5.830	(0.371)	3050268658	0.55503	0.5550
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	CONCENTRATIONS					
					ON-COLUMN	FINAL
	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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)	2242034406	0.51083	0.5108
* 29 Decachlorodiphenyl Ether	15.703	15.700	(1.000)	6973155040	2.00000	





		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( 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	14.379	(0.916)	2242183115	0.59051	0.590
* 39 Decachlorodiphenyl Ether	15.703	15.699	(1.000)	7001762581	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070711b.d

Calibration Time: 20:49

Lab Smp Id: 0906709A-01A

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8074460281	4037230141	16148920563	6973155040	-13.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070711ab.d

Calibration Time: 20:22

Lab Smp Id: 0906709A-01A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	7983945557	3991972778	15967891114	7001762581	-12.30

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0906709A-01A	
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.5550	92.50	60-120
\$ 28 DCB	0.6000	0.5108	85.14	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0906709A-01A	
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.618	103.01	60-120
\$ 38 DCB	0.600	0.590	98.42	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070711b.d

Date : 08-JUL-2009 00:11

Client ID:

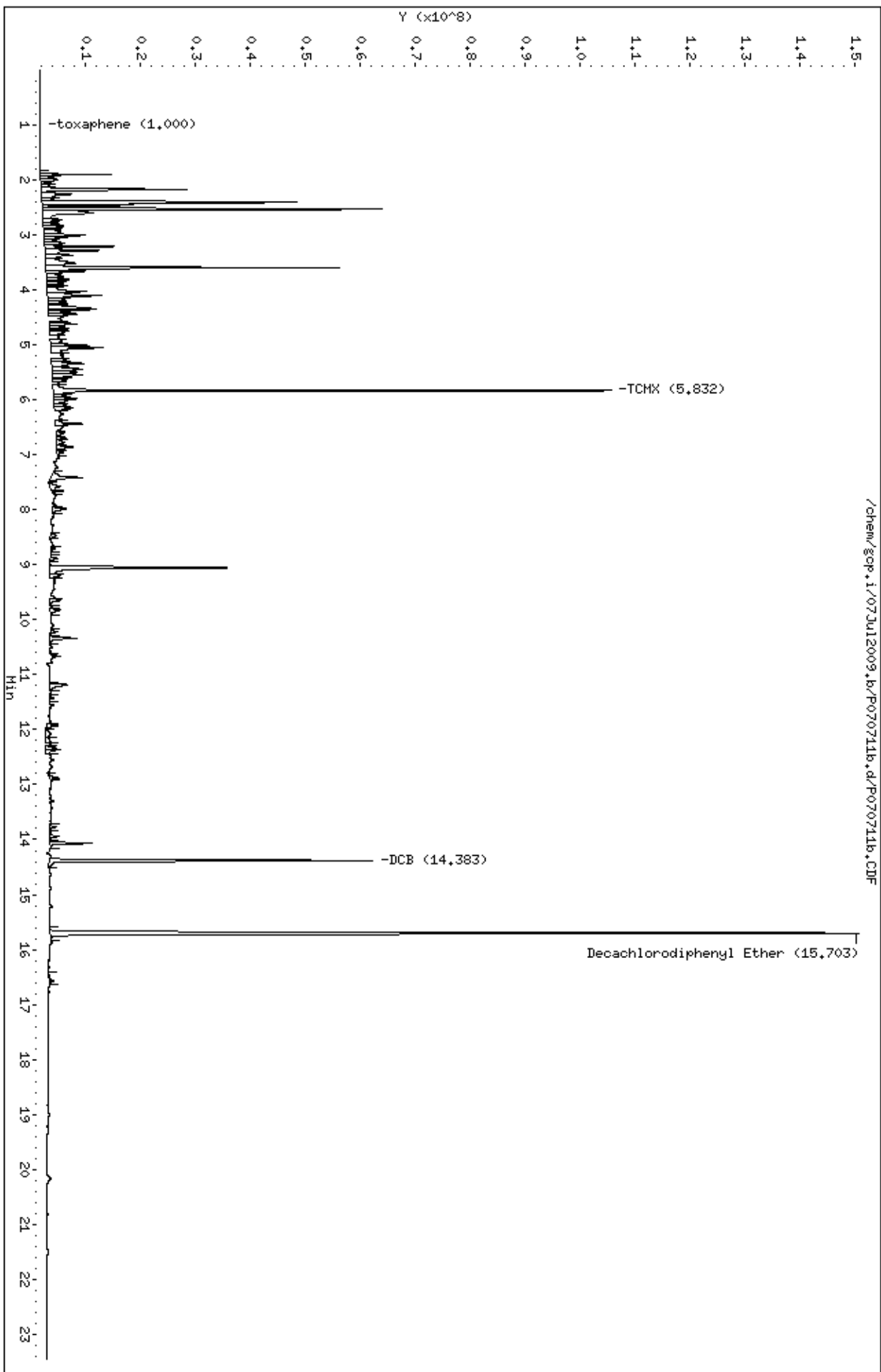
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Data File: /chem/gcp.i/07Jul2009.b/P070711ab.d

Date : 08-JUL-2009 00:11

Client ID:

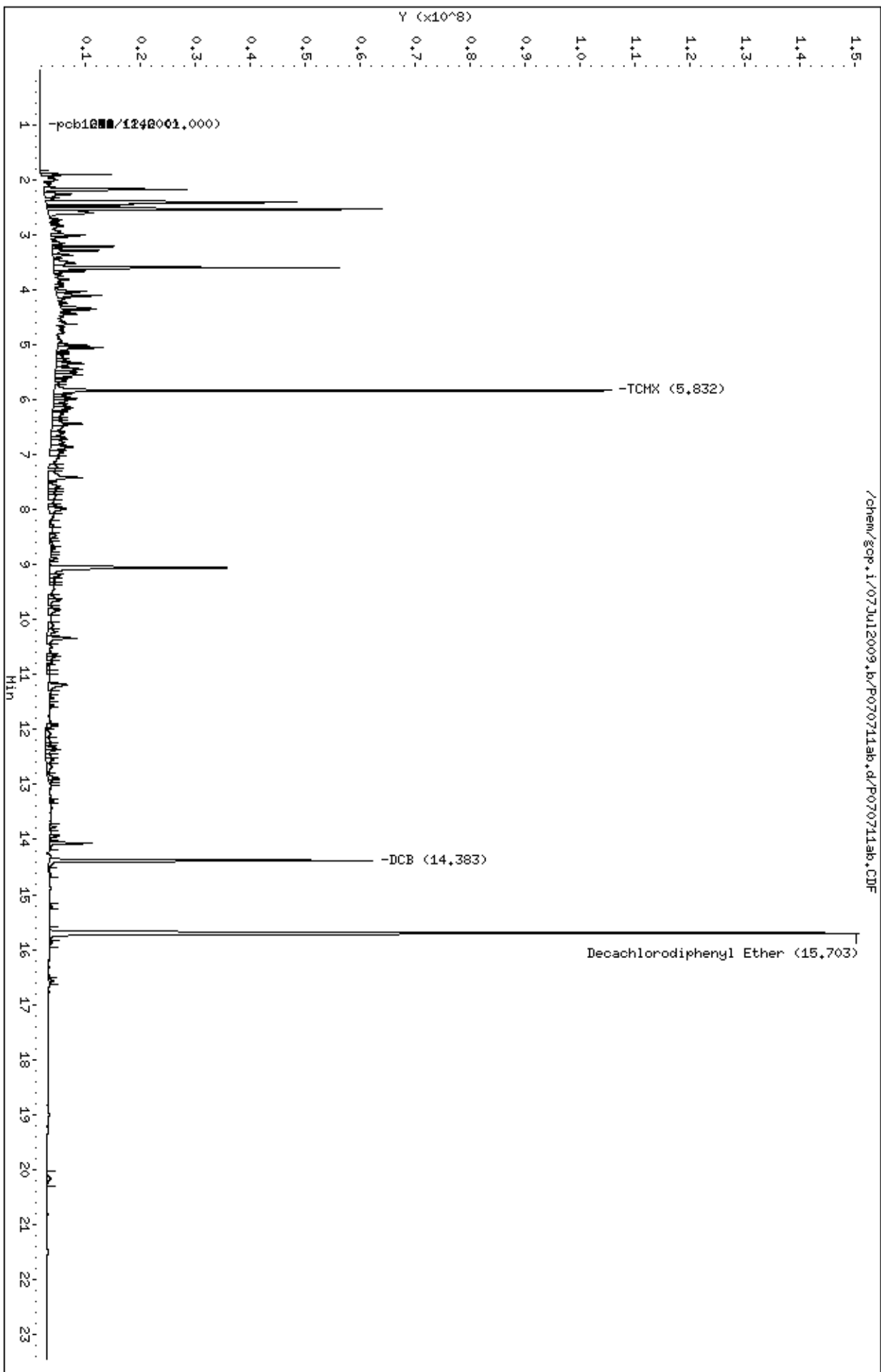
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00







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

**Client Sample ID: OFF04062509**

**Lab ID#: 0906709A-04A**

No Detections Were Found.

Client Sample ID: OFF04062509

Lab ID#: 0906709A-04A

**MODIFIED EPA METHOD TO-4A GC/ECD**

<b>File Name:</b>	<b>P070710</b>	<b>Date of Collection:</b> 6/25/09 5:30:00 PM
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 7/7/09 04:44 PM
		<b>Date of Extraction:</b> 7/1/09

<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Aldrin	0.10	0.0018	Not Detected	Not Detected
alpha-BHC	0.10	0.0018	Not Detected	Not Detected
beta-BHC	0.10	0.0018	Not Detected	Not Detected
delta-BHC	0.10	0.0018	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0018	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0018	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0018	Not Detected	Not Detected
4,4'-DDD	0.10	0.0018	Not Detected	Not Detected
4,4'-DDE	0.10	0.0018	Not Detected	Not Detected
4,4'-DDT	0.10	0.0018	Not Detected	Not Detected
Dieldrin	0.10	0.0018	Not Detected	Not Detected
Endosulfan I	0.10	0.0018	Not Detected	Not Detected
Endosulfan II	0.10	0.0018	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0018	Not Detected	Not Detected
Endrin	0.10	0.0018	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0018	Not Detected	Not Detected
Endrin Ketone	0.10	0.0018	Not Detected	Not Detected
Heptachlor	0.10	0.0018	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0018	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.018	Not Detected	Not Detected
Toxaphene	1.0	0.018	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.018	Not Detected	Not Detected
Aroclor-1221	1.0	0.018	Not Detected	Not Detected
Aroclor-1232	1.0	0.018	Not Detected	Not Detected
Aroclor-1248	1.0	0.018	Not Detected	Not Detected
Aroclor-1254	1.0	0.018	Not Detected	Not Detected
Aroclor-1260	1.0	0.018	Not Detected	Not Detected

**Air Sample Volume(L): 56300**

Aroclors were reported from file #P070710a, analyzed on 7/7/09 with a dilution factor of 1.00.

**Container Type: PUF Cartridge**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
2,4,5,6-Tetrachloro-m-xylene	82	60-120
Decachlorobiphenyl	76	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070710.d

Lab Smp Id: 0906709A-04A

Inj Date : 07-JUL-2009 23:44

Operator : LZ

Smp Info :

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/07Jul2009.b/p0910519.m

Meth Date : 07-Jul-2009 14:26 lzhang

Cal Date : 19-MAY-2009 20:37

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P051912.d

Compound Sublist: all.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.009	6.011	(0.352)	8528223747	0.49267	0.4927
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.					
23 DDT		Compound Not Detected.					

Compounds	CONCENTRATIONS					
	ON-COLUMN			FINAL		
	RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
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)	4998020239	0.45766	0.4576
* 29 Decachlorodiphenyl Ether	17.077	17.075	(1.000)	17874174938	2.00000	



		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug/mL) ( 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	15.404	(0.902)	4669031709	0.50545 0.505
*	39 Decachlorodiphenyl Ether	17.077	17.076	(1.000)	17638293744	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070710.d

Calibration Time: 20:49

Lab Smp Id: 0906709A-04A

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	18266316146	9133158073	36532632292	17874174938	-2.15

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070710a.d

Calibration Time: 20:22

Lab Smp Id: 0906709A-04A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17529836943	8764918472	35059673887	17638293744	0.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0906709A-04A	
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.4927	82.11	60-120
\$ 28 DCB	0.6000	0.4576	76.28	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:

Sample Matrix: GAS

Lab Smp Id: 0906709A-04A

Level: LOW

Data Type: GC DATA

SpikeList File:

Sublist File: all\_42.sub

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m

Misc Info: None

Client SDG: 07Jul2009

Fraction: VOA

Operator: LZ

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.532	88.72	60-120
\$ 38 DCB	0.600	0.505	84.24	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070710.d

Date : 07-JUL-2009 23:44

Client ID:

Sample Info:

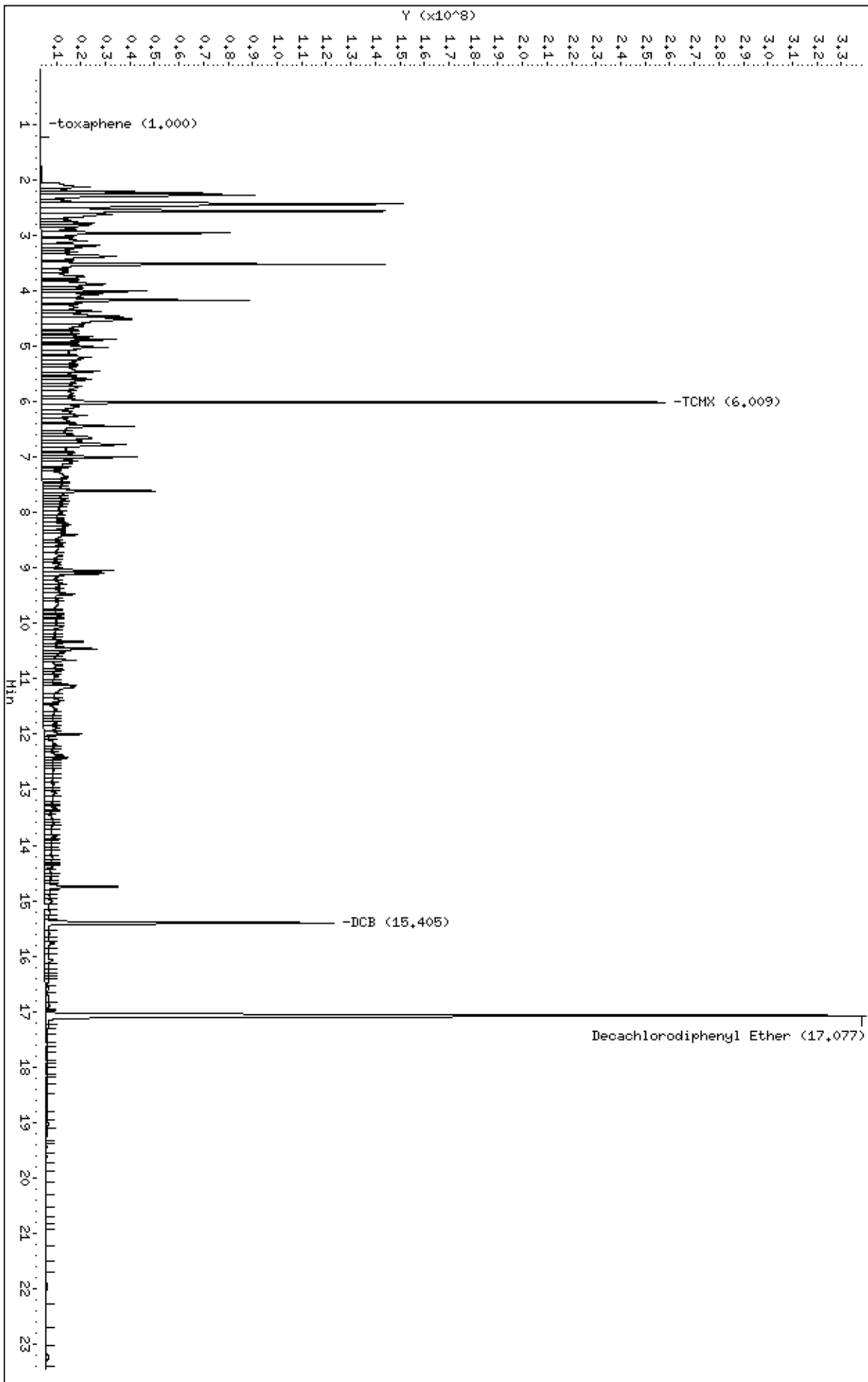
Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

/chem/gcp.i/07Jul2009.b/P070710.d/P070710.CDF



Data File: /chem/gcp.i/07Jul2009.b/P070710a.d

Date : 07-JUL-2009 23:44

Client ID:

Sample Info:

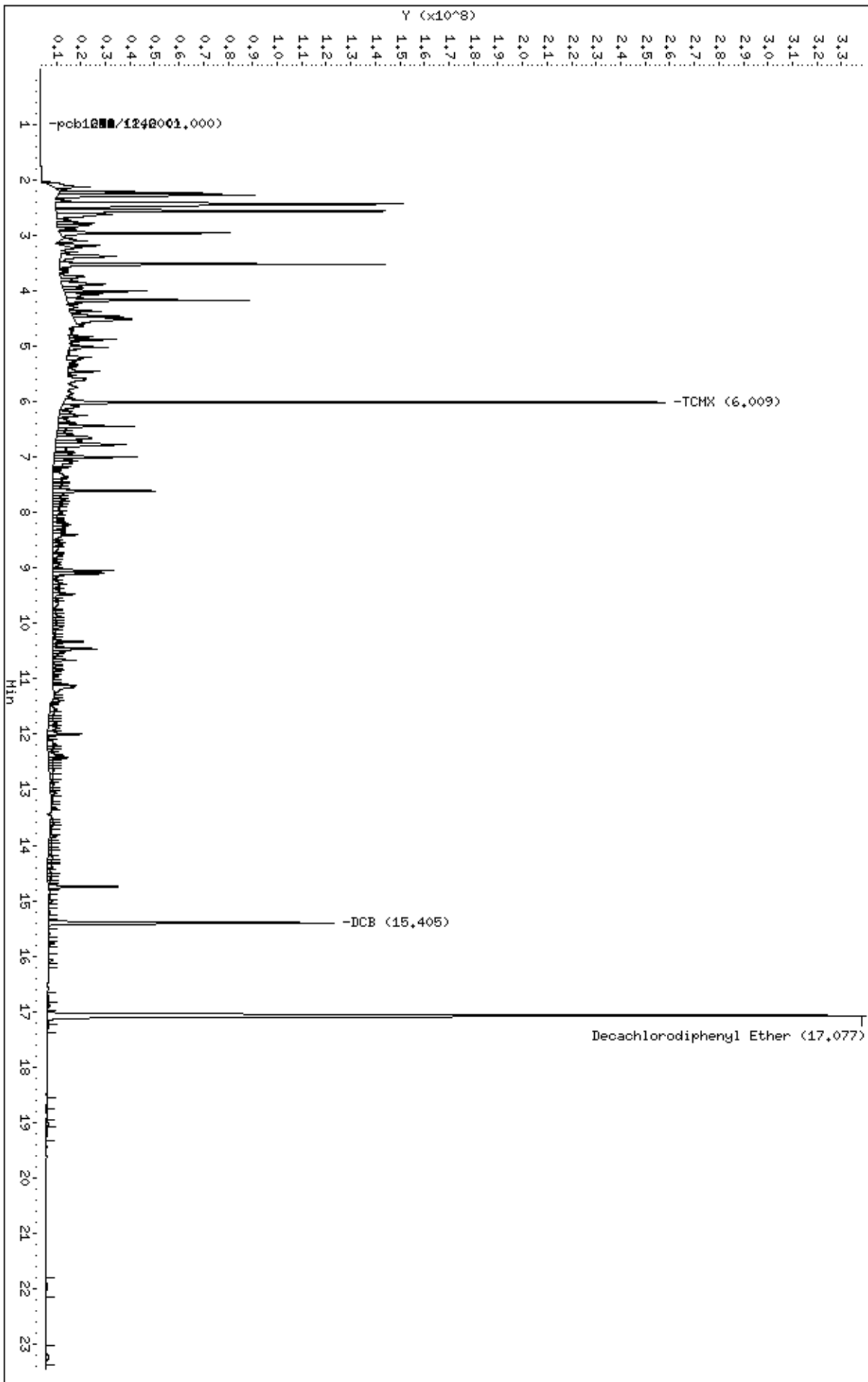
Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

/chem/gcp.i/07Jul2009.b/P070710a.d/P070710a.CDF



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070710b.d  
Lab Smp Id: 0906709A-04A  
Inj Date : 07-JUL-2009 23:44  
Operator : LZInst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Back column, Rtx-CLPesticides  
Method : /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m  
Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: all.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.831	5.830	(0.371)	3207500448	0.52730	0.5273
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.					

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE		( ug)	( 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	14.381	14.381	(0.916)	2148403575		0.44225	0.4422
* 29 Decachlorodiphenyl Ether	15.700	15.700	(1.000)	7718202194		2.00000	





		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( 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	14.381	14.379	(0.916)	2180694453	0.51806	0.518
* 39 Decachlorodiphenyl Ether	15.700	15.699	(1.000)	7761987323	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070710b.d

Calibration Time: 20:49

Lab Smp Id: 0906709A-04A

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8074460281	4037230141	16148920563	7718202194	-4.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070710ab.d

Calibration Time: 20:22

Lab Smp Id: 0906709A-04A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	7983945557	3991972778	15967891114	7761987323	-2.78

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0906709A-04A	
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.5273	87.88	60-120
\$ 28 DCB	0.6000	0.4422	73.71	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:

Sample Matrix: GAS

Lab Smp Id: 0906709A-04A

Level: LOW

Data Type: GC DATA

SpikeList File:

Sublist File: all\_42.sub

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

Client SDG: 07Jul2009

Fraction: VOA

Operator: LZ

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.518	86.33	60-120
\$ 38 DCB	0.600	0.518	86.34	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070710b.d

Date : 07-JUL-2009 23:44

Client ID:

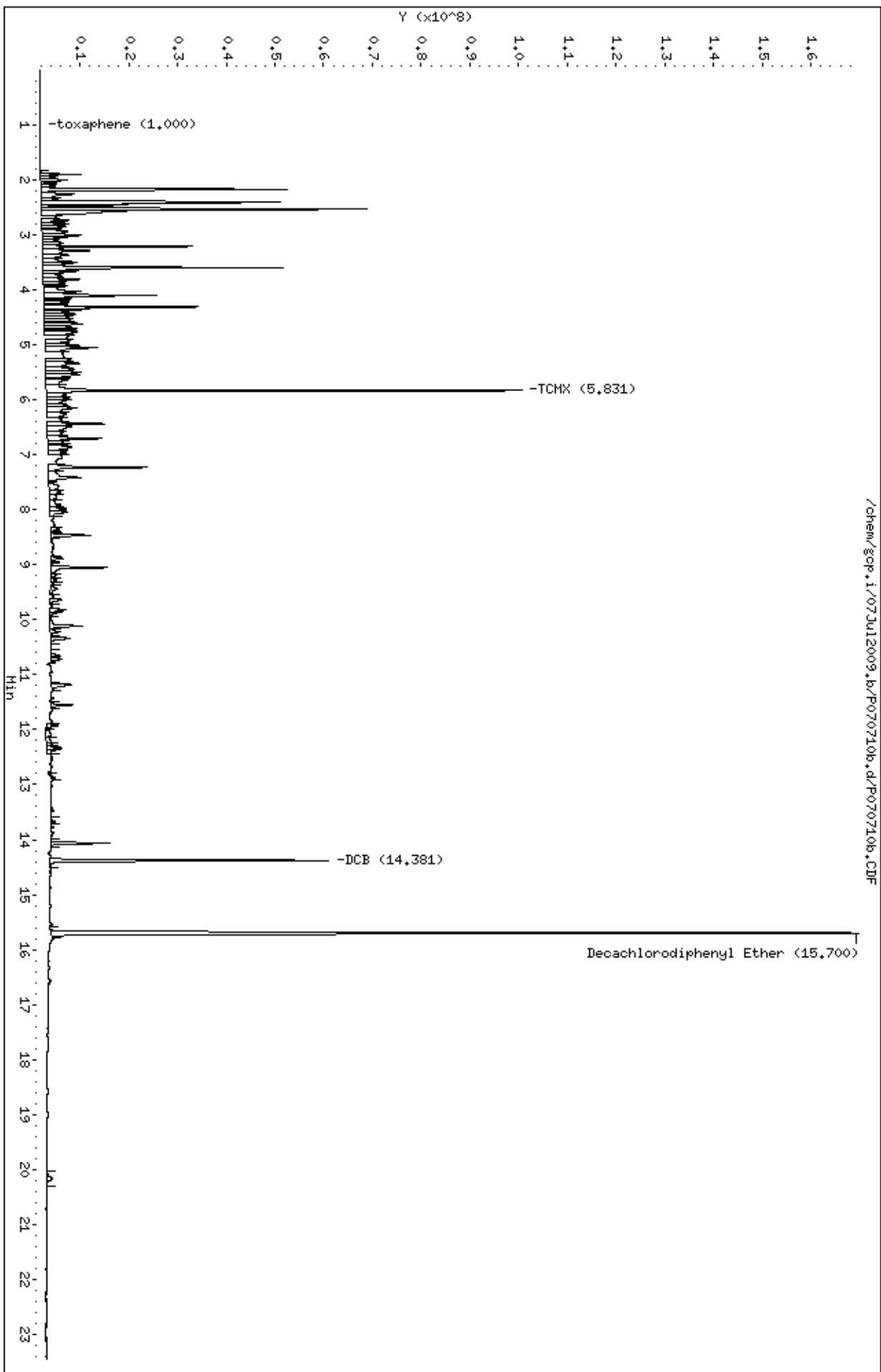
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Data File: /chem/gcp,i/07Jul2009,b/P070710ab.d

Date : 07-JUL-2009 23:44

Client ID:

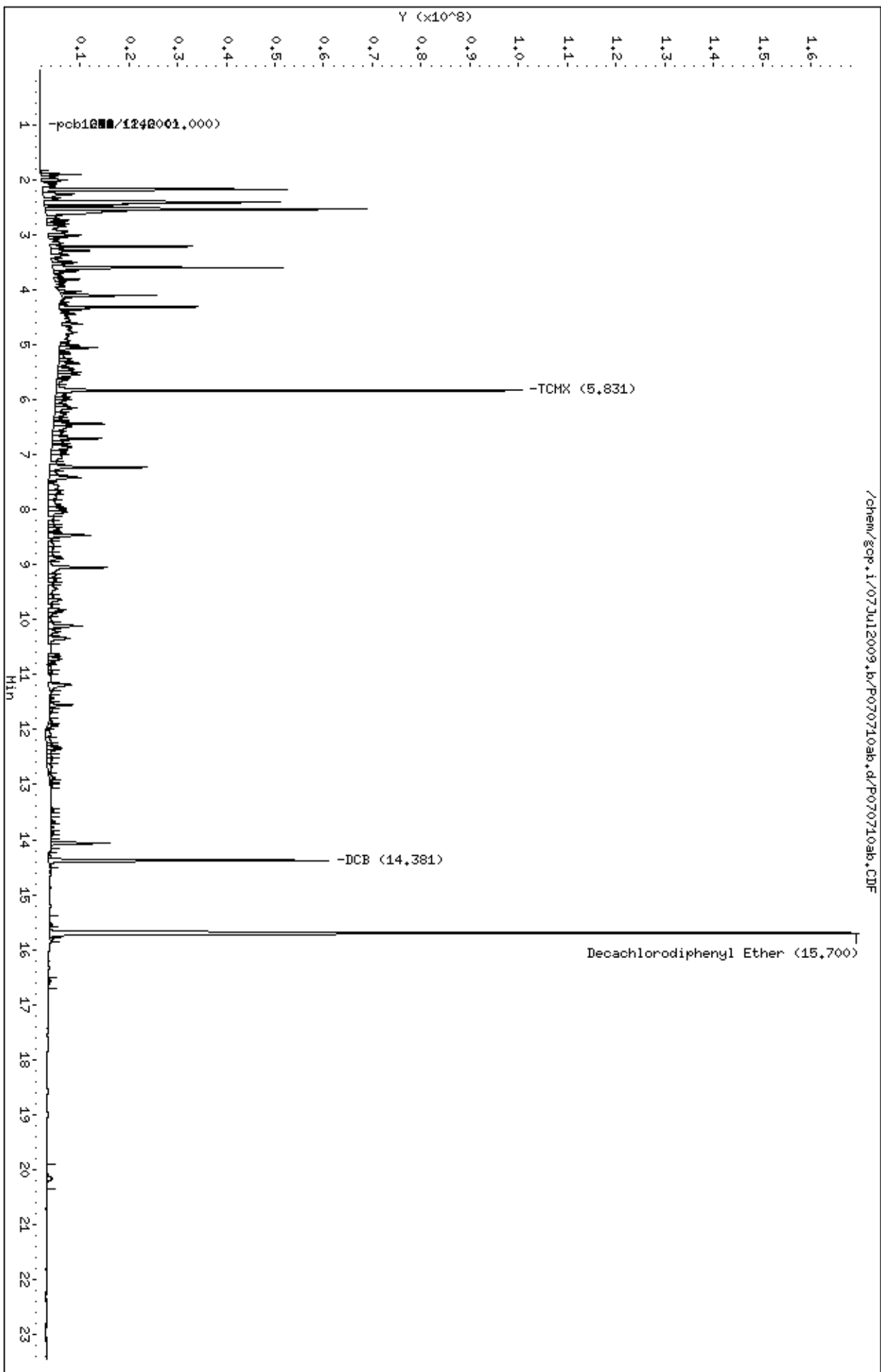
Sample Info:

Column phase:

Instrument: gcp,i

Operator: LZ

Column diameter: 2.00



## **QC Results and Raw Data**



Client Sample ID: Lab Blank

Lab ID#: 0906709A-05A

**MODIFIED EPA METHOD TO-4A GC/ECD**

<b>File Name:</b>	<b>P070706</b>	<b>Date of Collection: NA</b>
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 7/7/09 02:57 PM</b>
		<b>Date of Extraction: 7/1/09</b>

<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
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): 85000**

Aroclors were reported from file #P070706a, analyzed on 7/7/09 with a dilution factor of 1.00.

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
2,4,5,6-Tetrachloro-m-xylene	81	60-120
Decachlorobiphenyl	78	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070706.d  
Lab Smp Id: 0906708A/709AClient Smp ID: Lab Blank  
Inj Date : 07-JUL-2009 21:57  
Operator : LZInst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Front column, Rtx-CLPesticides II  
Method : /chem/gcp.i/07Jul2009.b/p0910519.m  
Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:37Cal File: P051912.d  
Als bottle: 1  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: all.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

		CONCENTRATIONS				
					ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug)
=====		==	=====	=====	=====	=====
\$ 2 TCMX		6.011	6.011	(0.352)	8800228976	0.48818 0.4882
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	
Compounds	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
					( ug)	( 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	15.404	15.404	(0.902)	5362597203	0.47153	0.4715
* 29 Decachlorodiphenyl Ether	17.076	17.075	(1.000)	18614040841	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/07Jul2009.b/P070706a.d

Lab Smp Id: 0906708A/709A

Client Smp ID: Lab Blank

Inj Date : 07-JUL-2009 21:57

Operator : LZ

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/07Jul2009.b/p09p0522.m

Meth Date : 07-Jul-2009 13:56 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

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.011	6.010	(0.352)	8482780670	0.59089	0.591
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.					

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug/mL) ( 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	15.404	15.404	(0.902)	5249636832	0.54437 0.544
*	39 Decachlorodiphenyl Ether	17.076	17.076	(1.000)	18413864925	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070706.d

Calibration Time: 20:49

Lab Smp Id: 0906708A/709A

Client Smp ID: Lab Blank

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	18266316146	9133158073	36532632292	18614040841	1.90
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070706a.d

Calibration Time: 20:22

Lab Smp Id: 0906708A/709A

Client Smp ID: Lab Blank

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17529836943	8764918472	35059673887	18413864925	5.04

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0906708A/709A	Client Smp ID: Lab Blank
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.4882	81.36	60-120
\$ 28 DCB	0.6000	0.4715	78.59	60-120



Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0906708A/709A	Client Smp ID: Lab Blank
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.591	98.48	60-120
\$ 38 DCB	0.600	0.544	90.73	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070706.d

Date : 07-JUL-2009 21:57

Client ID: Lab Blank

Sample Info:

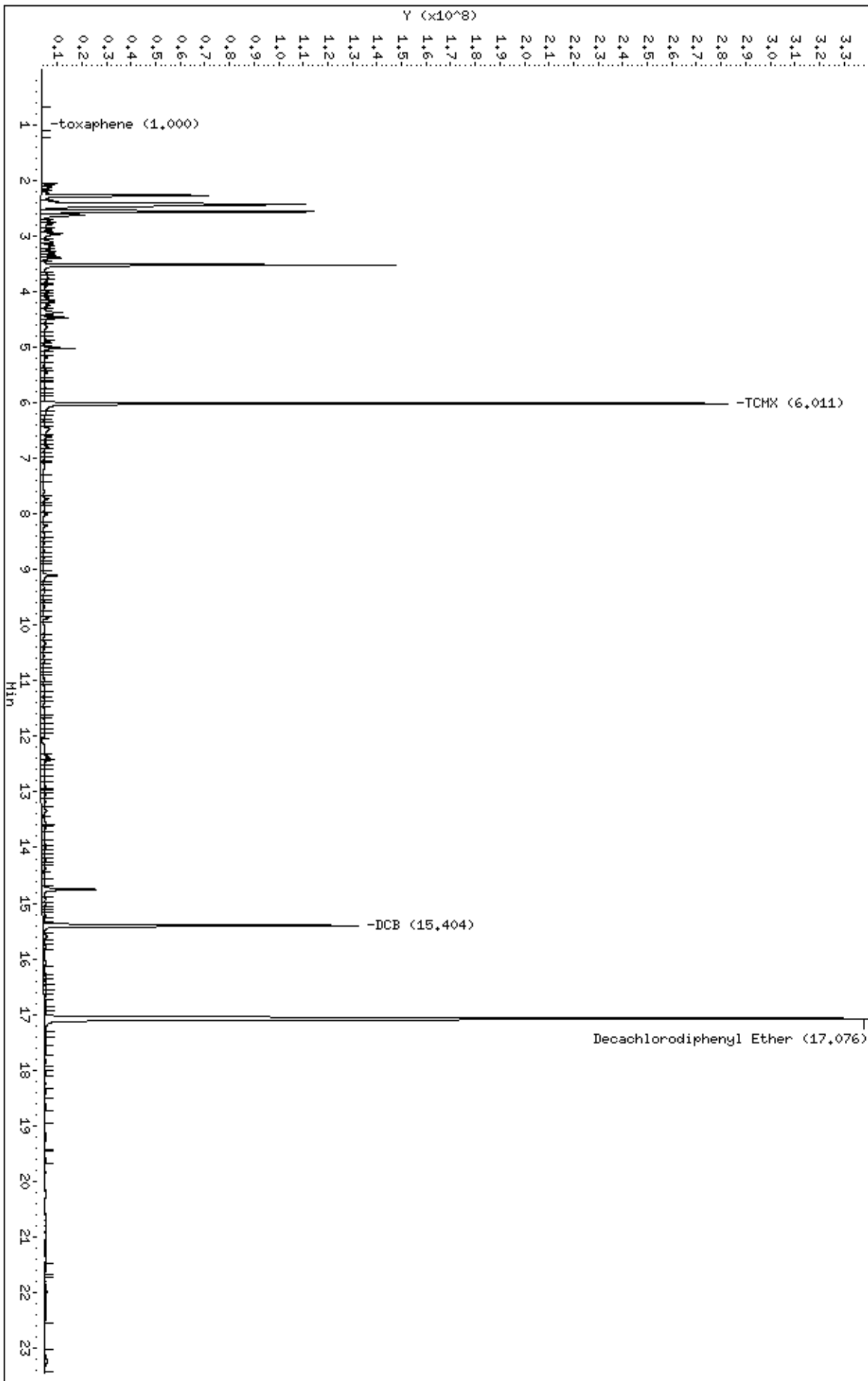
Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

/chem/gcp.i/07Jul2009.b/P070706.d/P070706.CDF



Data File: /chem/gcp.i/07Jul2009.b/P070706a.d

Date : 07-JUL-2009 21:57

Client ID: Lab Blank

Sample Info:

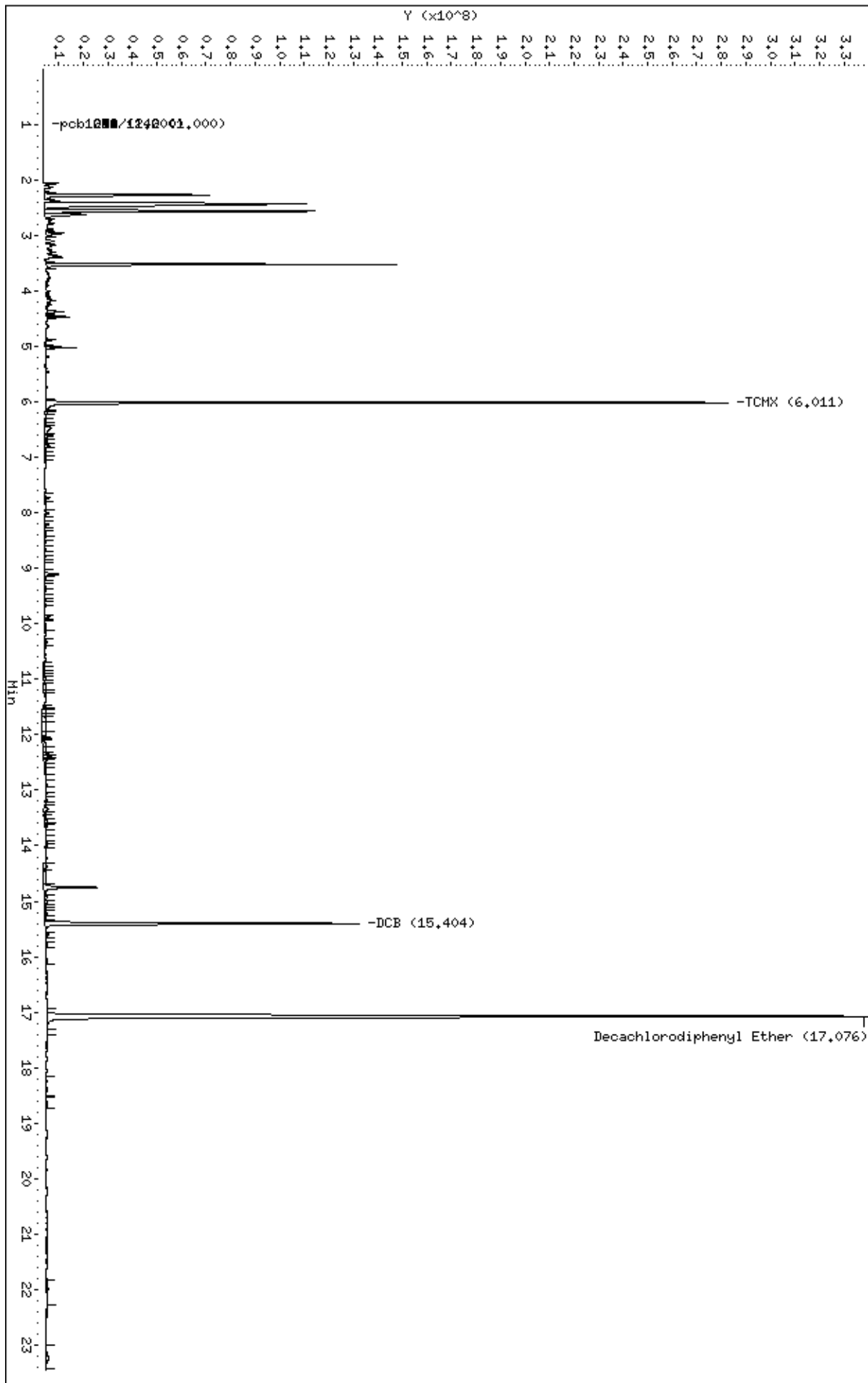
Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

Column phase:

/chem/gcp.i/07Jul2009.b/P070706a.d/P070706a.CDF



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070706b.d

Lab Smp Id: 0906708A/709A

Client Smp ID: Lab Blank

Inj Date : 07-JUL-2009 21:57

Operator : LZ

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Back column, Rtx-CLPesticides

Method : /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Meth Date : 07-Jul-2009 14:26 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

		CONCENTRATIONS				
					ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug)
=====		==	=====	=====	=====	=====
\$ 2 TCMX		5.829	5.830	(0.371)	3051273565	0.48160
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.				

					CONCENTRATIONS	
Compounds	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug)	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	14.380	14.381	(0.916)	2300548222	0.45467	0.4547
* 29 Decachlorodiphenyl Ether	15.699	15.700	(1.000)	8038969805	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/07Jul2009.b/P070706ab.d

Lab Smp Id: 0906708A/709A

Client Smp ID: Lab Blank

Inj Date : 07-JUL-2009 21:57

Operator : LZ

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Meth Date : 07-Jul-2009 13:56 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

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.829	5.829	(0.371)	3051116272	0.54422	0.544
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.					

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug/mL) ( 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	14.380	14.379	(0.916)	2315881260	0.53024 0.530
*	39 Decachlorodiphenyl Ether	15.699	15.699	(1.000)	8053827392	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070706b.d

Calibration Time: 20:49

Lab Smp Id: 0906708A/709A

Client Smp ID: Lab Blank

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	8074460281	4037230141	16148920563	8038969805	-0.44
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070706ab.d

Calibration Time: 20:22

Lab Smp Id: 0906708A/709A

Client Smp ID: Lab Blank

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	7983945557	3991972778	15967891114	8053827392	0.88
-----	-----	-----	-----	-----	-----

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0906708A/709A	Client Smp ID: Lab Blank
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.4816	80.27	60-120
\$ 28 DCB	0.6000	0.4547	75.78	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:

Sample Matrix: GAS

Lab Smp Id: 0906708A/709A

Level: LOW

Data Type: GC DATA

SpikeList File:

Sublist File: all\_42.sub

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

Client SDG: 07Jul2009

Fraction: VOA

Client Smp ID: Lab Blank

Operator: LZ

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.544	90.70	60-120
\$ 38 DCB	0.600	0.530	88.37	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070706b.d

Date : 07-JUL-2009 21:57

Client ID: Lab Blank

Sample Info:

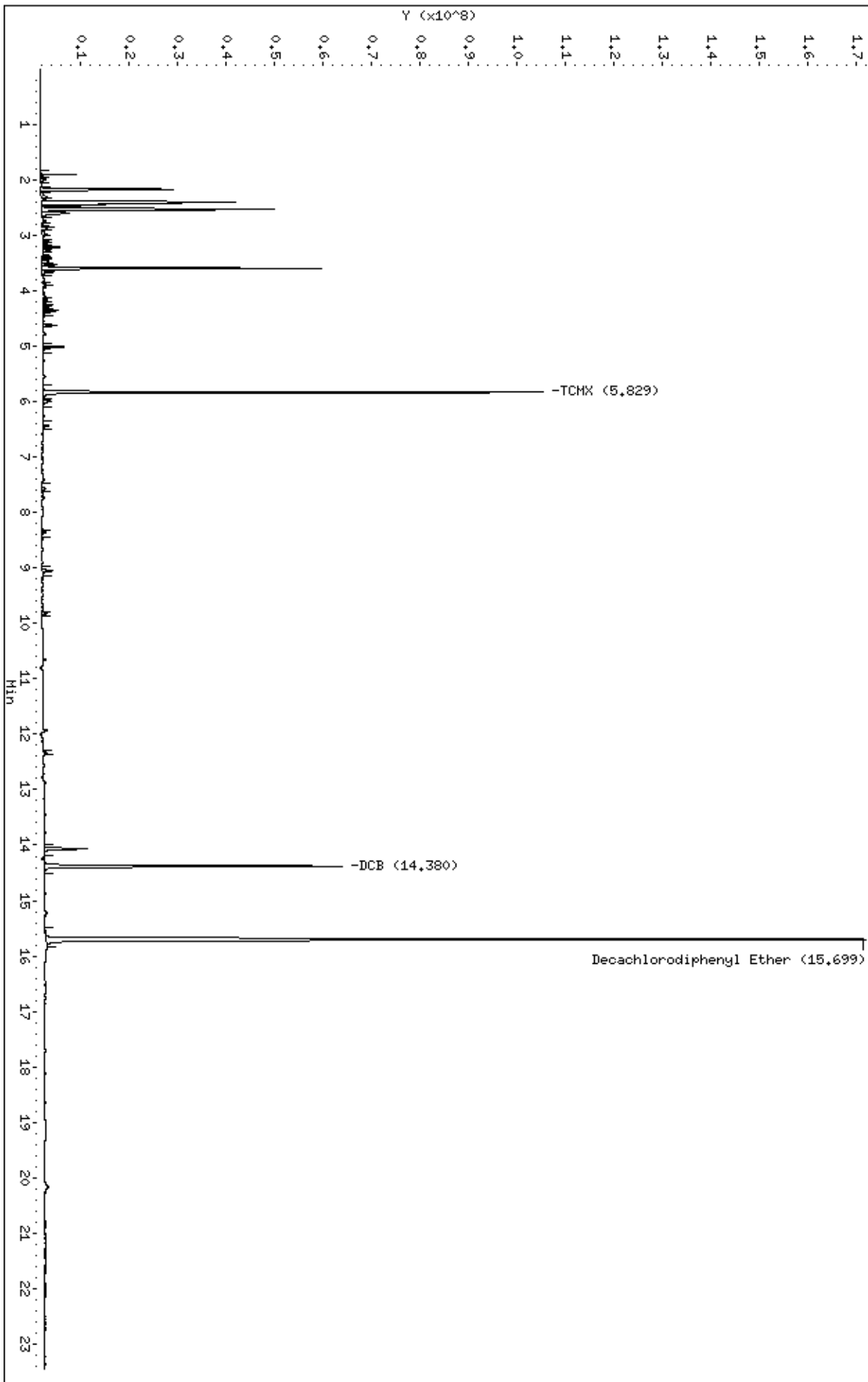
Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

Column phase:

/chem/gcp.i/07Jul2009.b/P070706b.d/P070706b.CMF



Data File: /chem/gcp,i/07Jul2009,b/P070706ab.d

Date : 07-JUL-2009 21:57

Client ID: Lab Blank

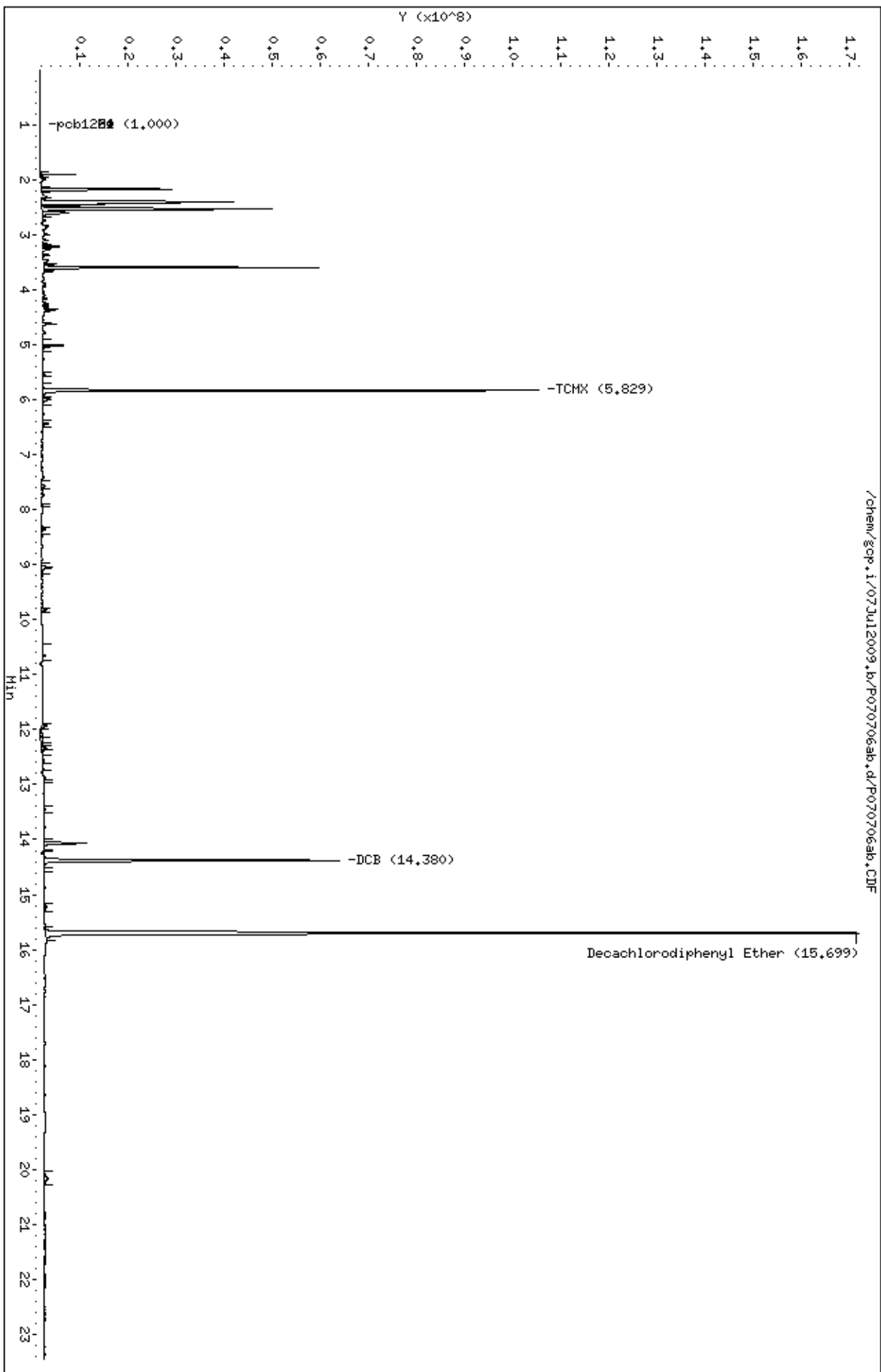
Sample Info:

Column phase:

Instrument: gcp,i

Operator: LZ

Column diameter: 2.00



# LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-4A GC/ECD

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0906709A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY							TOTAL OUT
		Decachlorobiphenyl	#	2,4,5,6-Tetrachloro- m-xylene	#		#		
01	OFF03062509	85		95					0
02	OFF04062509	76		82					0
03	Lab Blank	78		81					0
04	LCS	73		80					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

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	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	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

## 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

```

[illegible]

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*

Compound	0.10000	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
<i>unit in ppm</i>	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
-----								

*5/20/09*

*ran sl2009*

\*Calibration level 6.0ppm

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

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

Injection Volume: 1.0 µL

GMT

USE	File #	Sample/ Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	P051901	Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
✓	02	1685-143-0.8 ONADL	2				1548		
X	03	1685-135-0.6 Pest	3				1615		CCV ↑
✓	04	Hexane Blank	4				1642		
✓	05	1685-135-0.1	5		RTN/NA		1730		Level 1
✓	06	-0.2	6				1757		Level 2
✓	07	-0.4	7				1823		Level 3, CCV
✓	08	-0.6	8				1850		Level 4
✓	09	-0.8	9				1917		Level 5
✓	10	-1.0	10				1943		Level 6
✓	11	✓ -5.05-100	11				2010		Level 7, 2.5 ppm
✓	12	1685-127-6.0 TOX	12				2037		TOX
✓	13	1685-109A-1.0	13				2104		LCS morey
✓	14	1685-136-0.4	14				2130		LCS
✓	15	Hexane Blank	15				2157		
✓	16	0905142A-Blank	16				2328		
✓	17	-LCS	17			✓	2355		LCS
✓	18	-OIA	18			5/20/09	0021		
✓	19	-OIA	18				0048		
✓	20	✓ -OIA	19				0115		
✓	21	1685-135-0.4	20				0142		
✓	22	Hexane Blank	21				0208		
✓	23	0905261A-Blank	22				0235		
✓	✓ 24	✓ -LCS	23	✓	✓	✓	0302		LCS

## Calculation Check:

File ID: P051914Compound: g-BHCInitials: RM

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{AVG}}} = \frac{9829798842 \times (2.100)}{21268438302 \times (2.25192)} = 2.59350$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.35742) \times (1000) \times (1.00)}{(1000)} = 0.35742$$

RM  
Signed

5/20/09  
Date

Reported Result = 0.3574

Revised: 02/27/06

Report Date: 20-May-2009 08:21 *Mon 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

		CONCENTRATIONS			
		ON-COLUMN		FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	( 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

run 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 lizhang

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		

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

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

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 ans/2009

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

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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	CONCENTRATIONS					
	ON-COLUMN			FINAL		
	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051914.d

Calibration Time: 18:23

Lab Smp Id: 1685-136-0.4-4.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

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

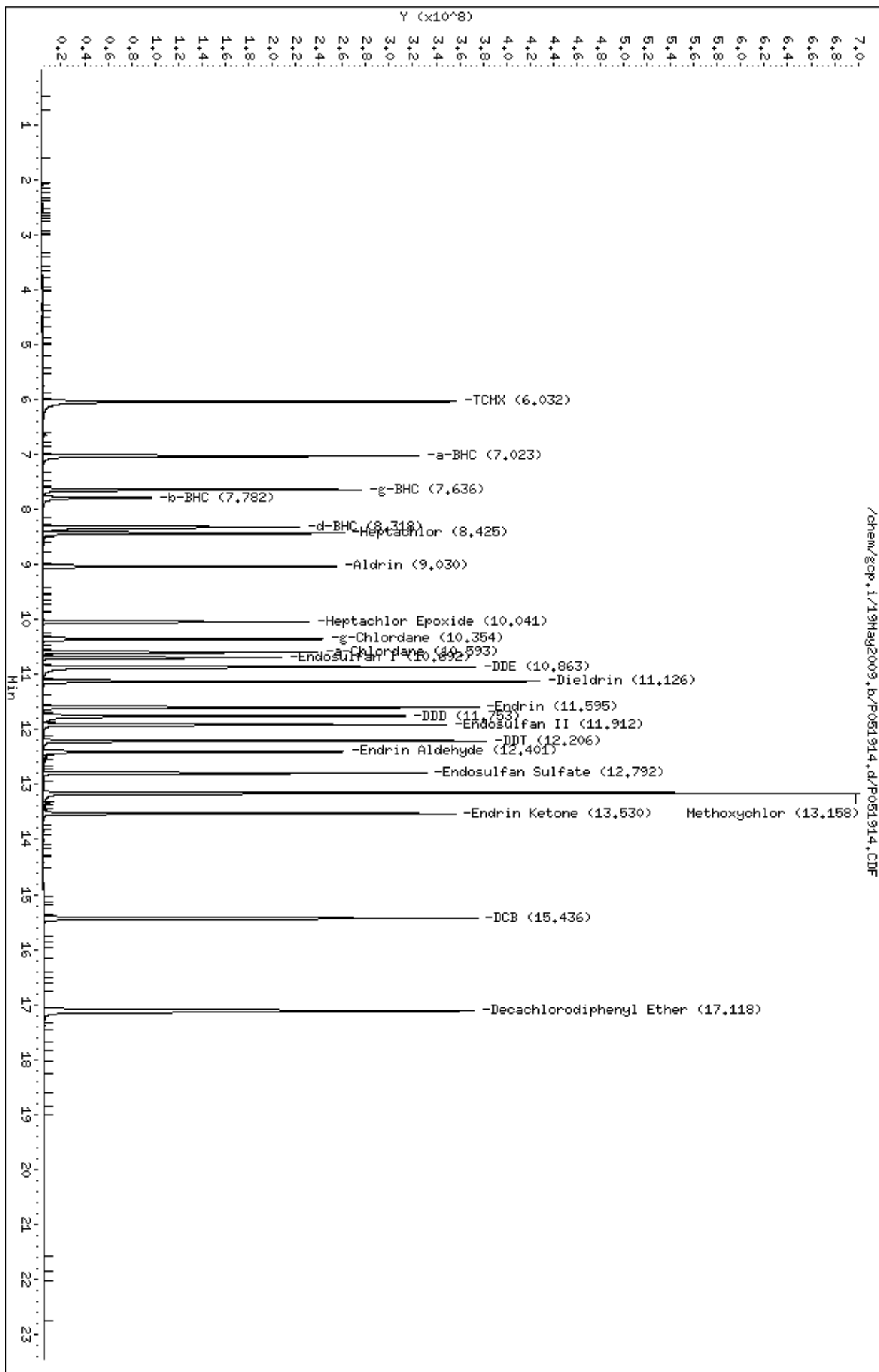
Sample Info: 1685-136-0.4-4.0

Instrument: gcp.i

Column phase:

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						CONCENTRATIONS	
	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
=====	==	=====	=====	=====		( ug)	( 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	



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051913.d

Calibration Time: 18:23

Lab Smp Id: 1685-109A-1.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

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

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

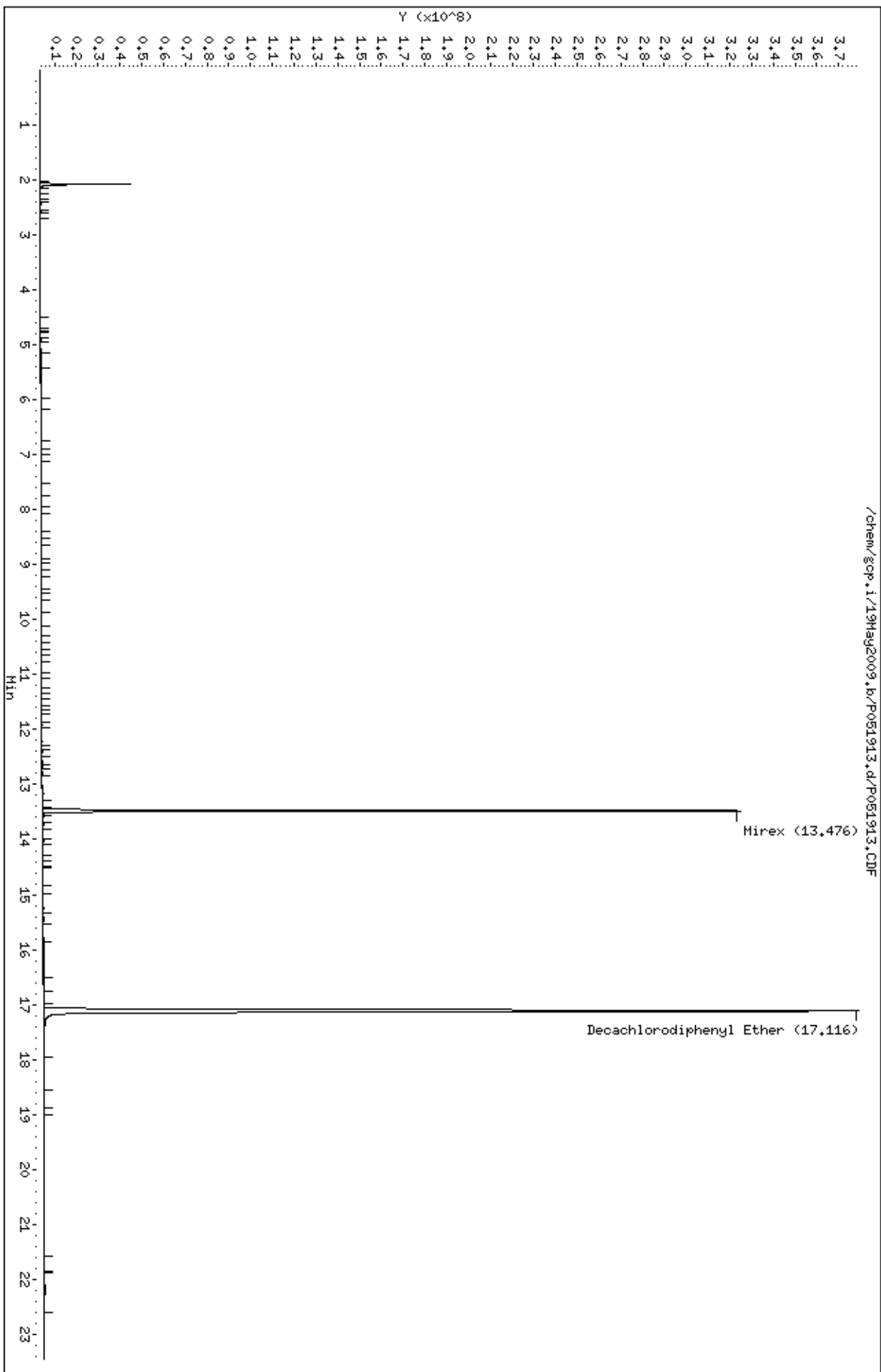
Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 17:30Cal File: P051905.d  
Als bottle: 1Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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	AMOUNTS					
				CAL-AMT	ON-COL	
	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051905.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.1

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

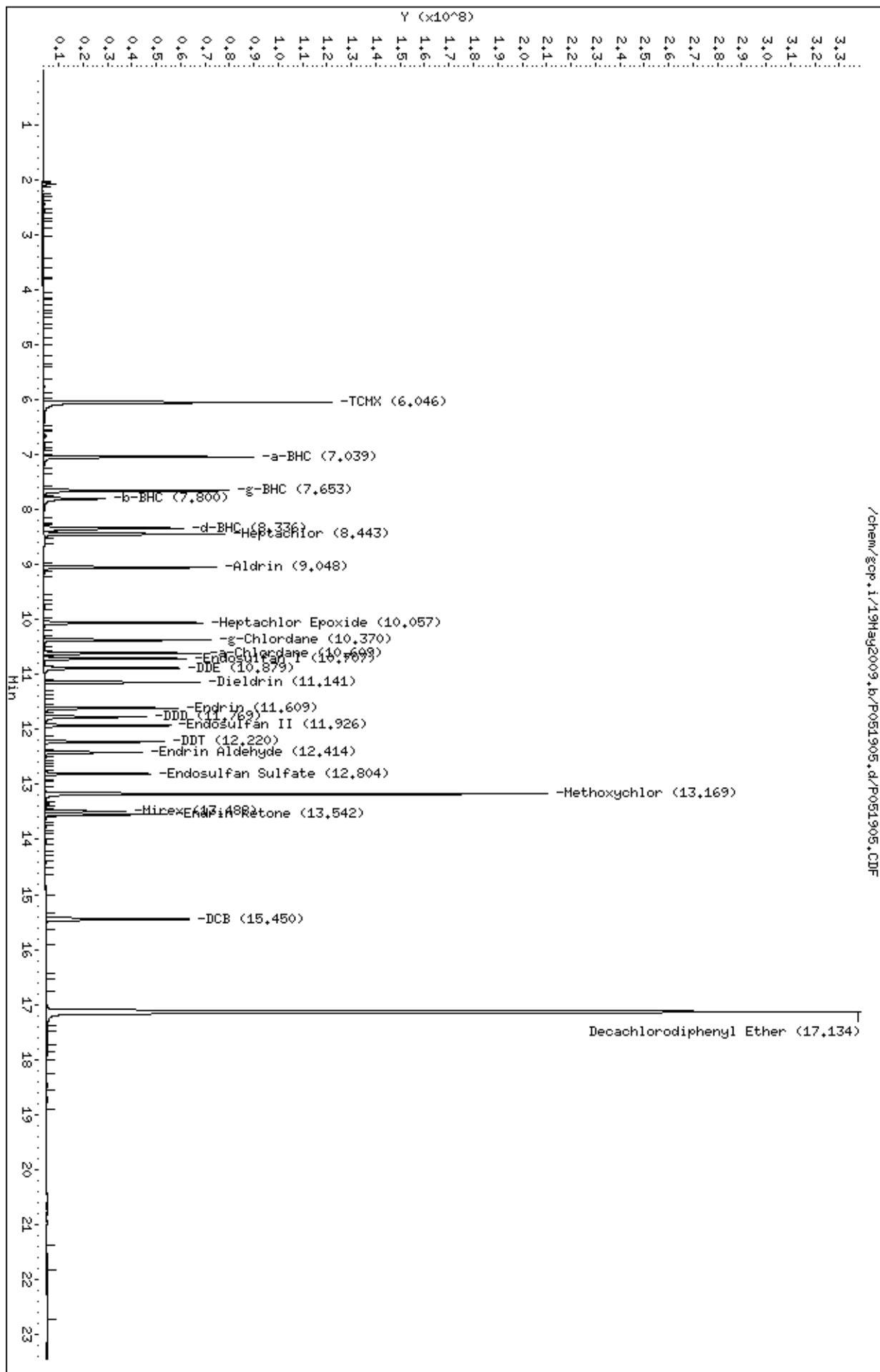
Sample Info: 1685-135-0.1

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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 17:57Cal File: P051906.d  
Als bottle: 1Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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



AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051906.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.2

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

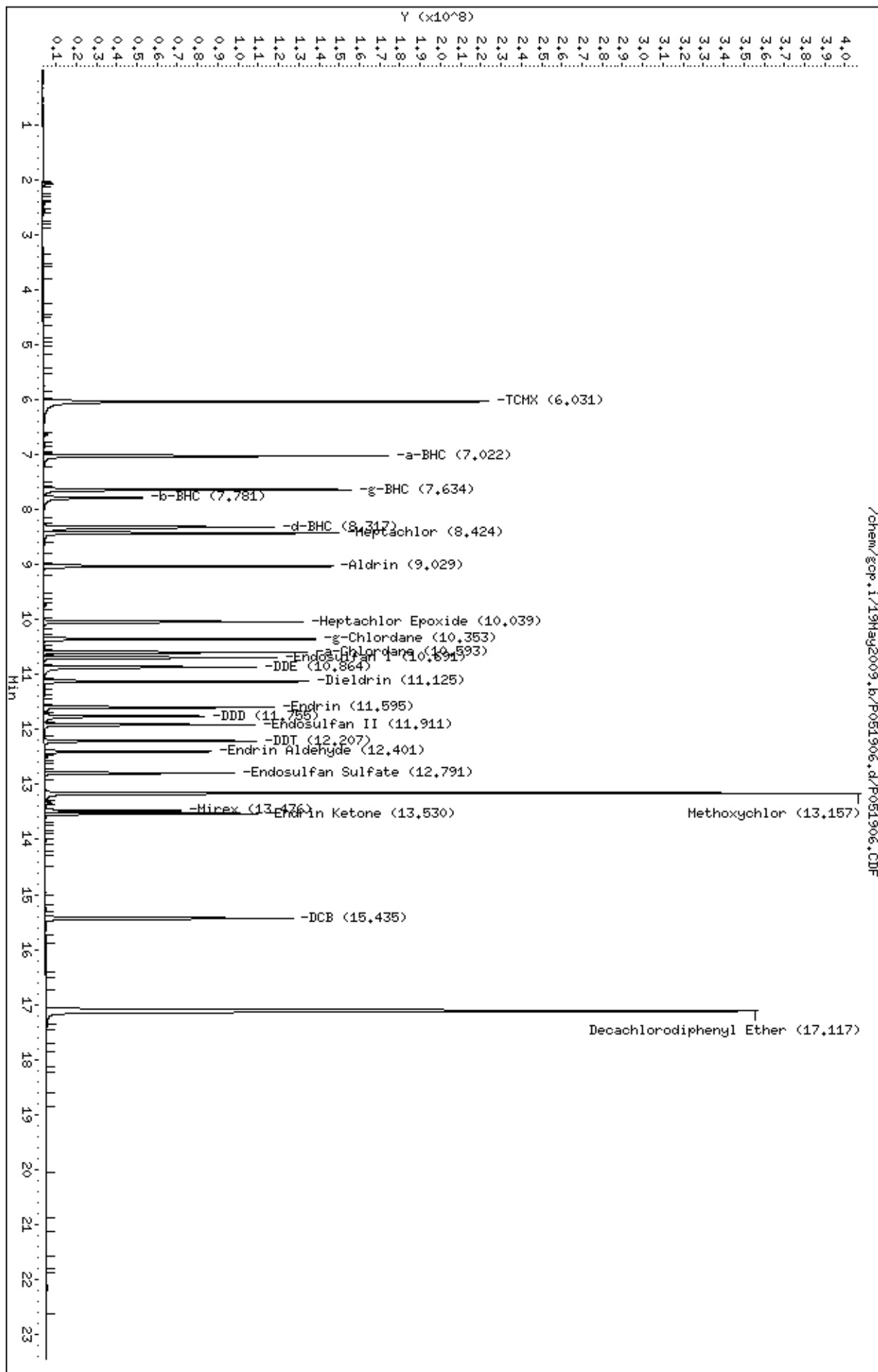
Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051907.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.4

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

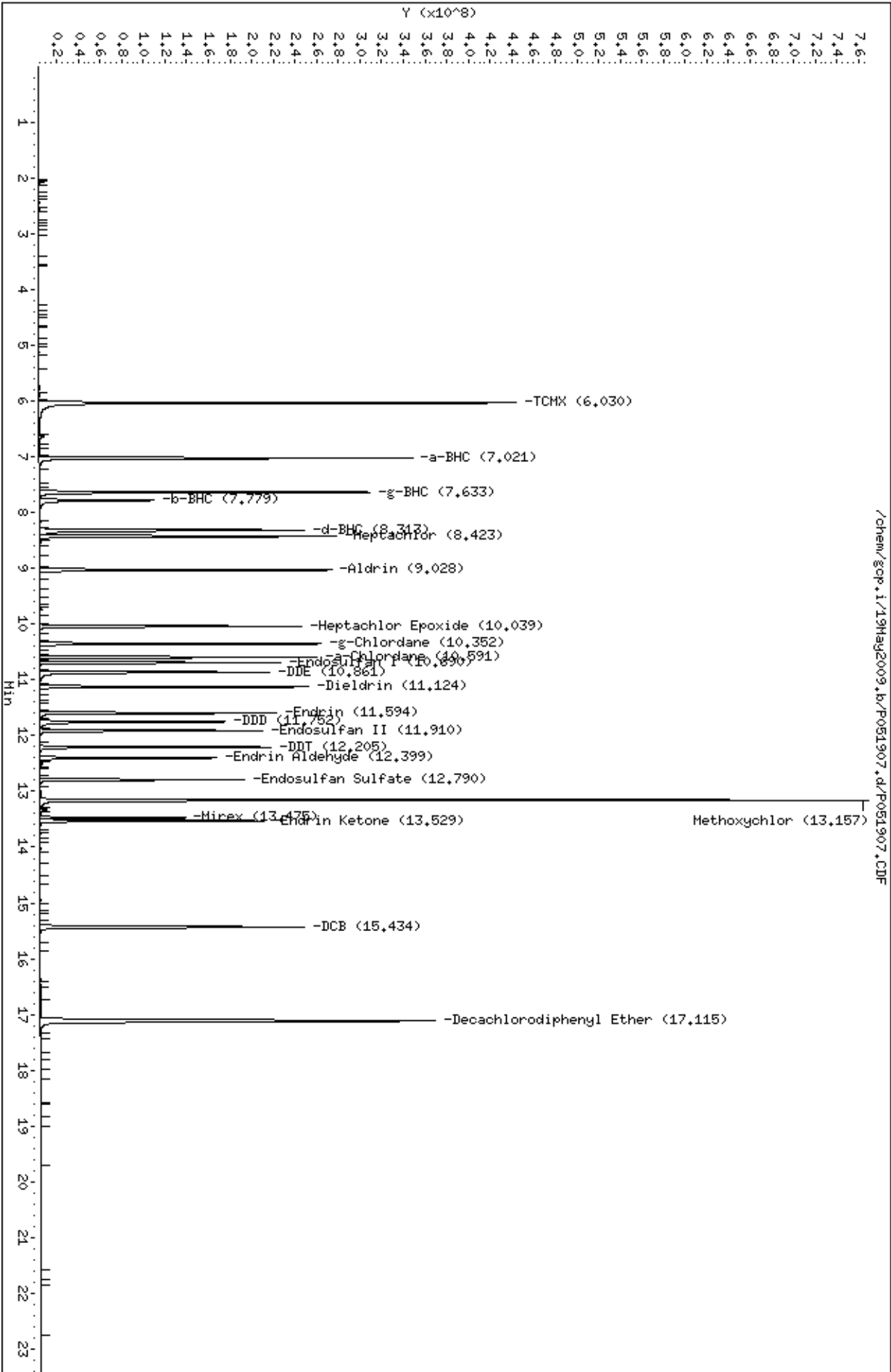
Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
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11	11
12	12
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14	14
15	15
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17	17
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19	19
20	20
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89	89
90	90
91	91
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93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

					AMOUNTS		
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
		( ug)				( 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	



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051912.d

Calibration Time: 18:23

Lab Smp Id: 1685-127-6.0

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

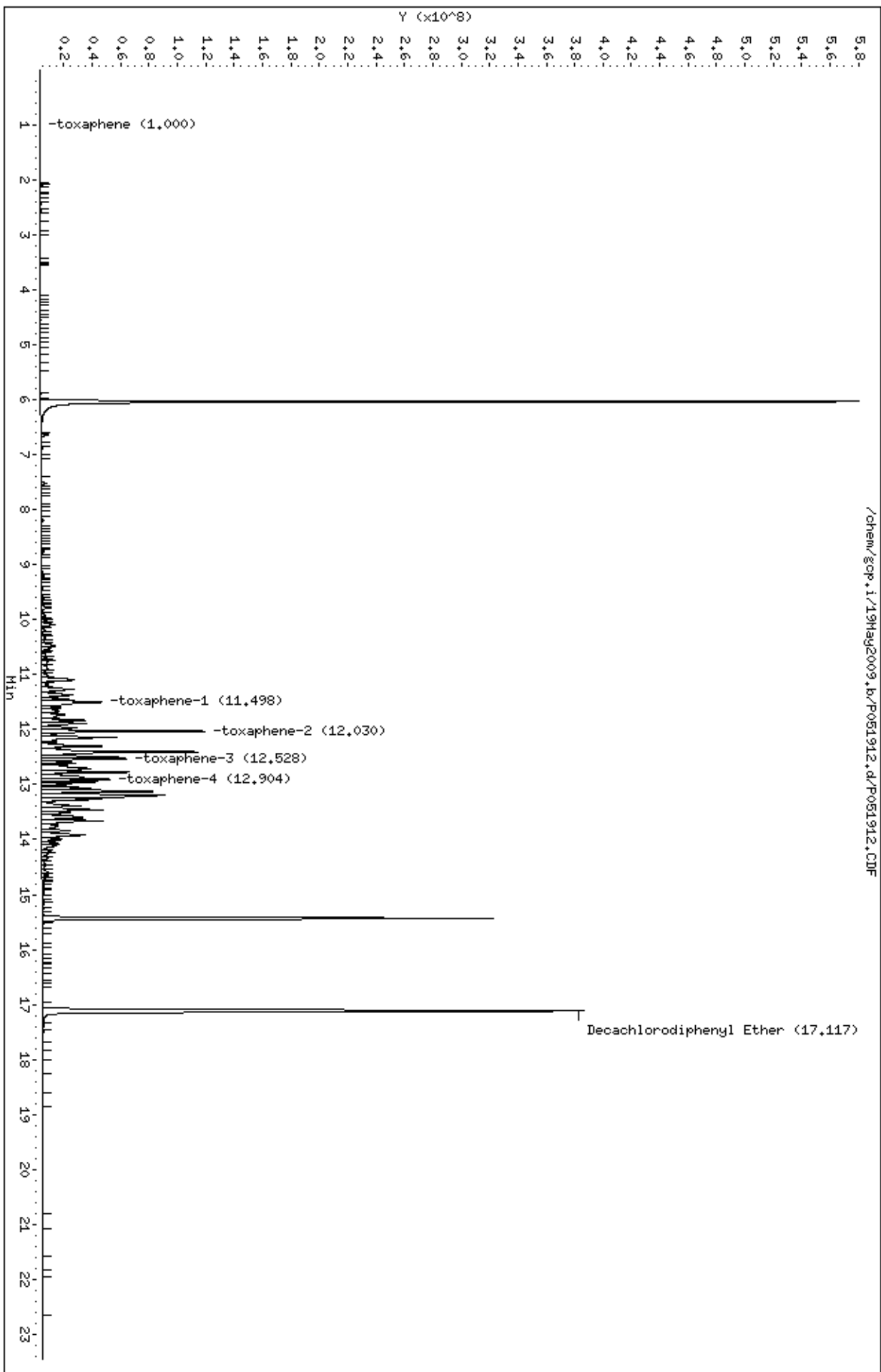
Sample Info: 1685-127-6.0

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

Column phase:



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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 18:50Cal File: P051908.d  
Als bottle: 1Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051908.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.6

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

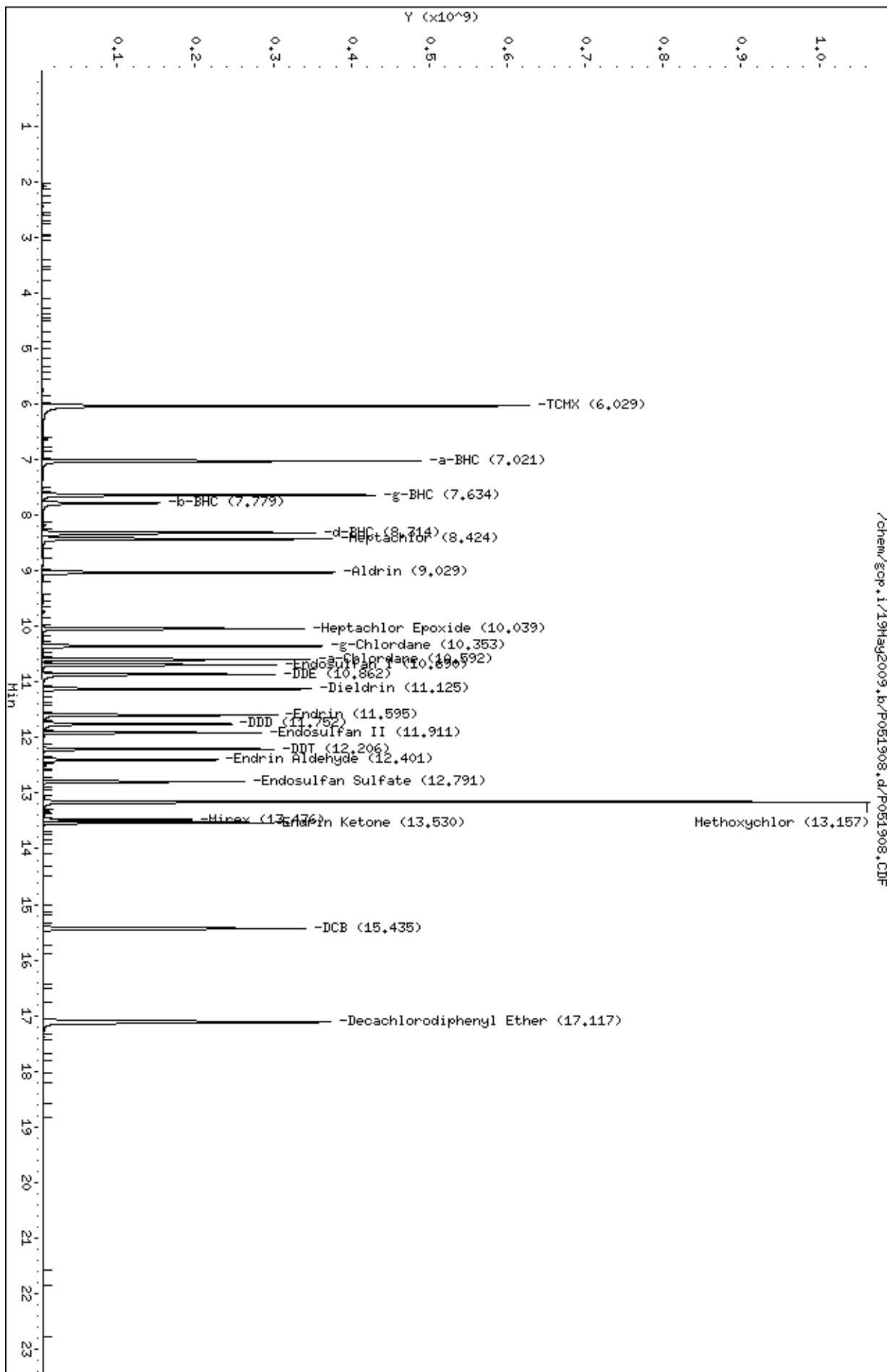
Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 19:17Cal File: P051909.d  
Als bottle: 1Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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	AMOUNTS					
				CAL-AMT	ON-COL	
	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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	



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051909.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.8

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

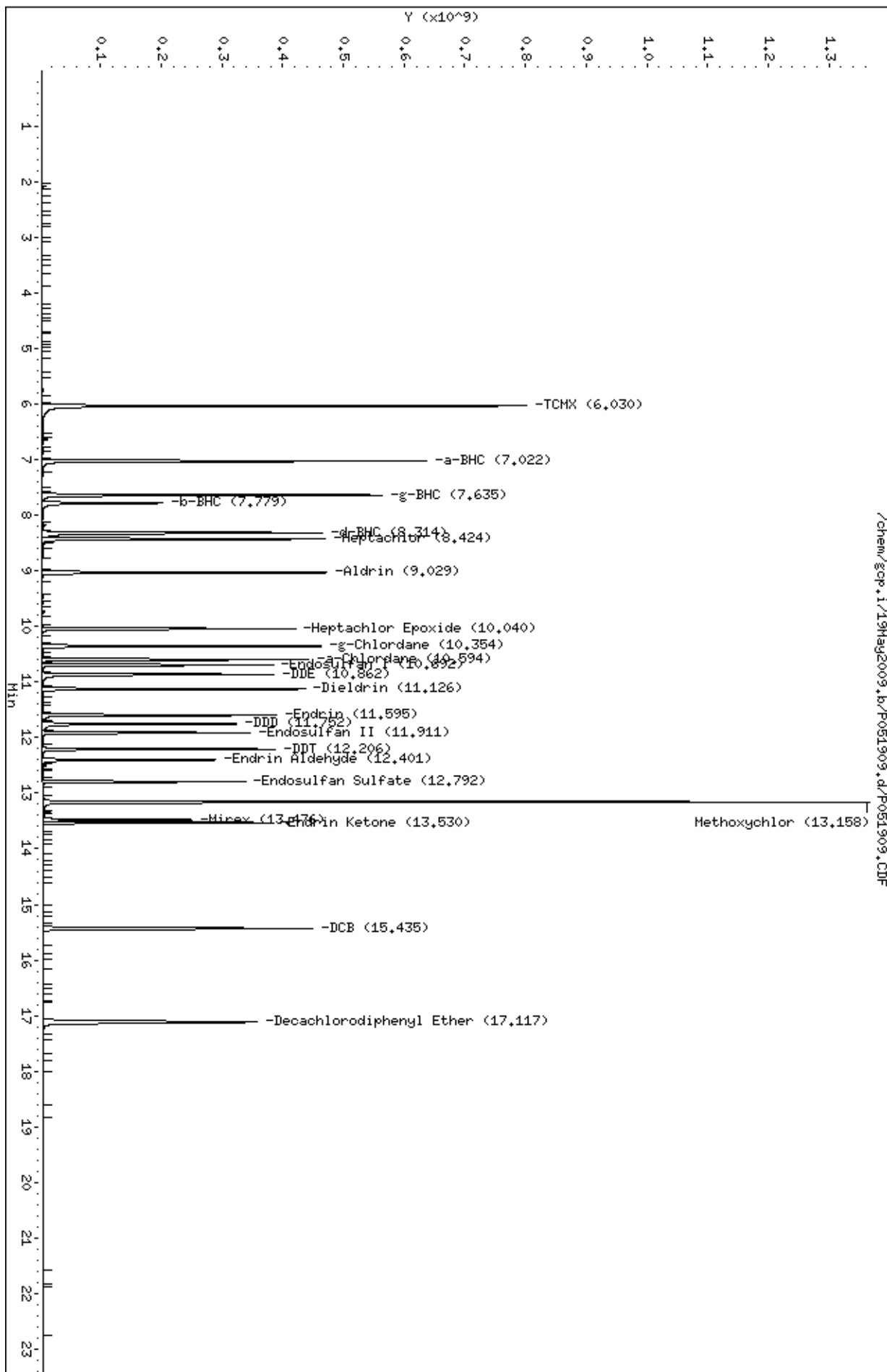
Sample Info: 1685-135-0.8

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 rnoonanQuant Type: ISTD  
Cal Date : 19-MAY-2009 19:43Cal File: P051910.d  
Als bottle: 1Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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	AMOUNTS					
				CAL-AMT	ON-COL	
	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051910.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-1.0

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

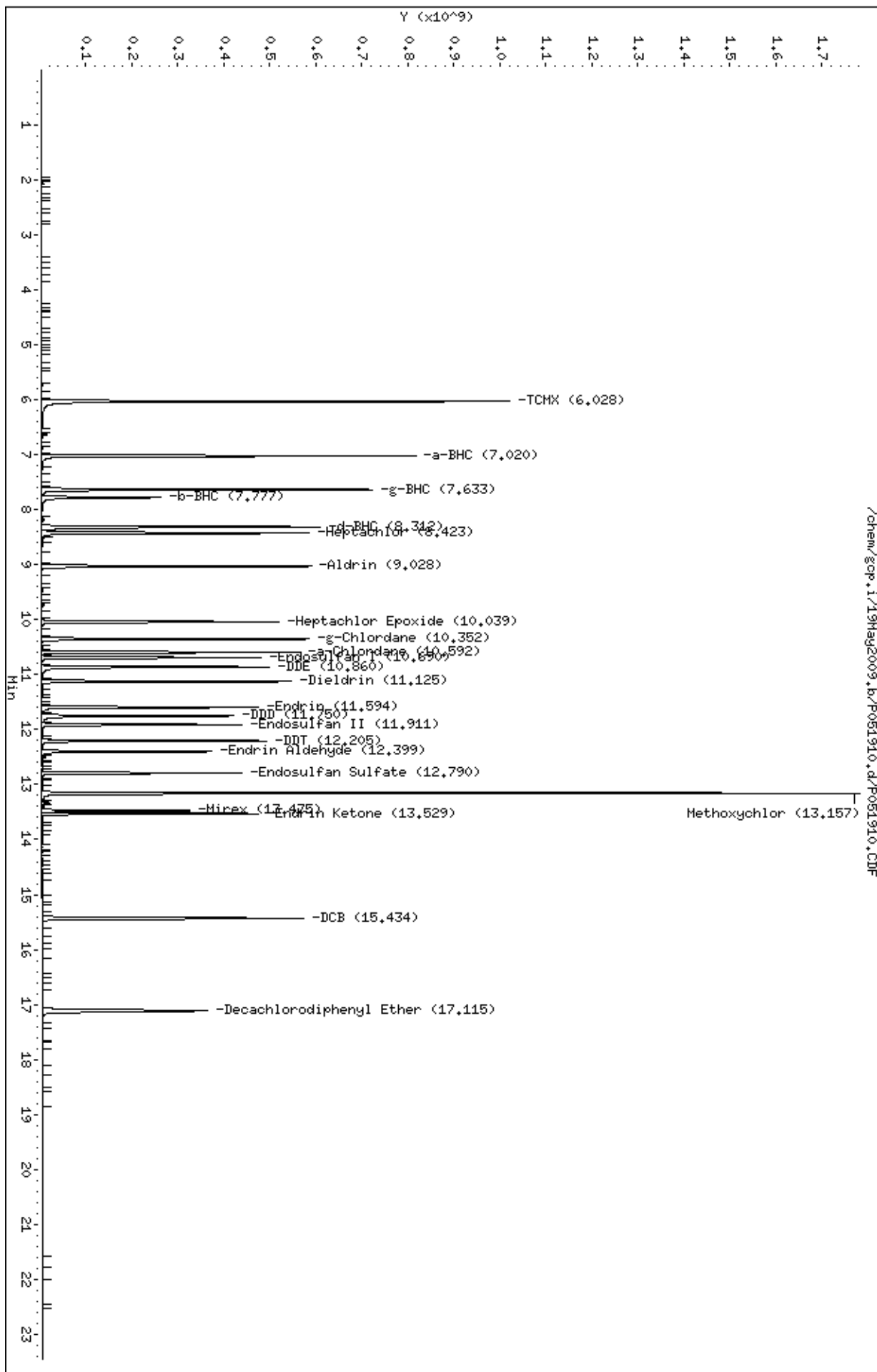
Sample Info: 1685-135-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 rnoonanQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:10Cal File: P051911.d  
Als bottle: 1Calibration Sample, Level: 7  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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.



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051911.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-2.5

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

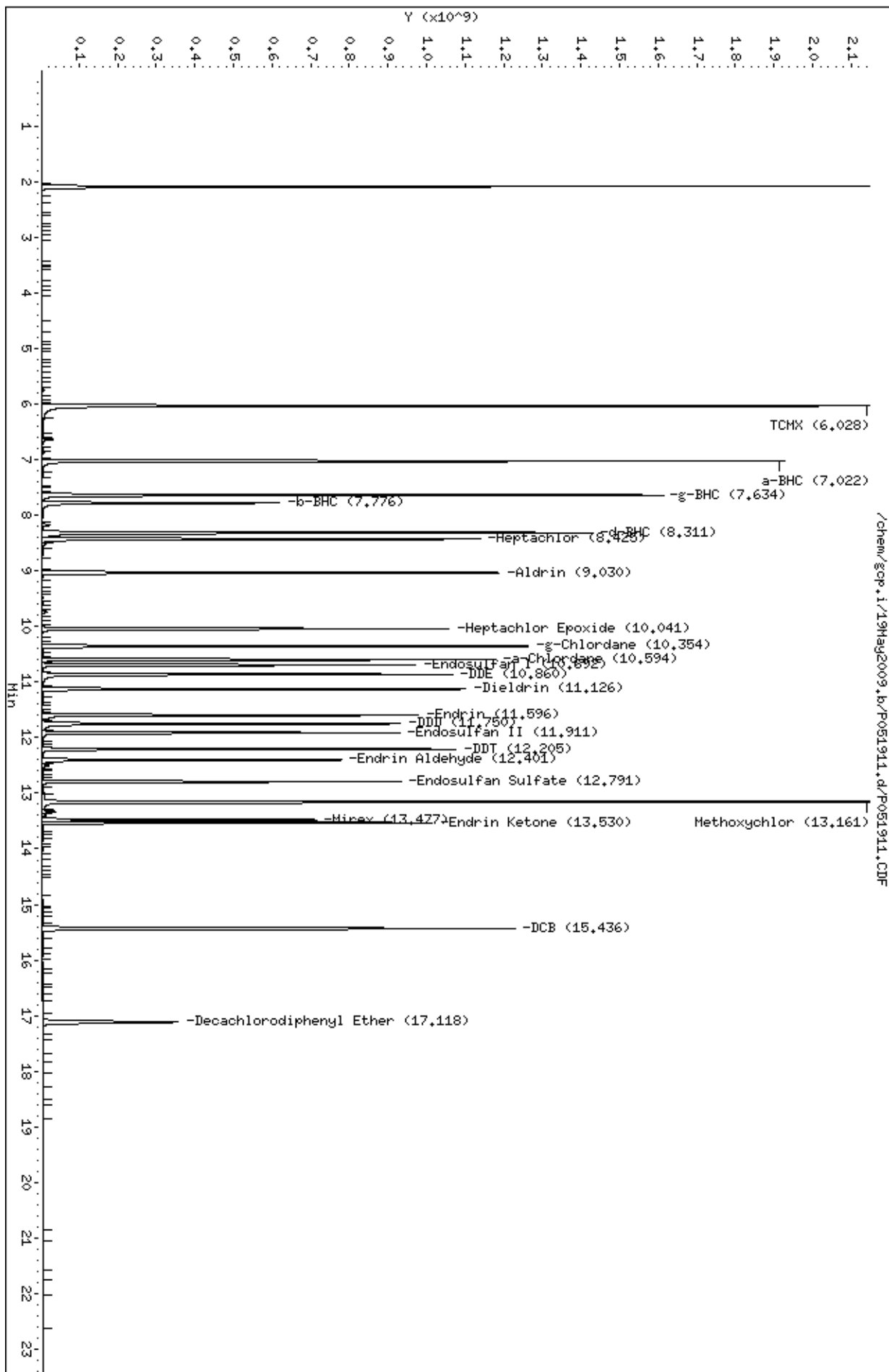
Sample Info: 1685-135-2.5

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00





## 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	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	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

## 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
```

[illegible]

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*

Compound	0.10000	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
<i>unit in ppm</i>	2.500							
	Level 7							
=====								
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
-----								

\* Calibration level : 6.0 ppm

*5/20/09*

*5/20/09*

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

80

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

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	0051901	Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
✓	02	1685-143-0.8 m/dil	2				1548		
X	03	1685-135-0.6 Post	3				1615		ccv ↑
✓	04	Hexane Blank	4				1642		
✓	05	1685-135-0.1	5		RTN/LA		1730		Level 1
✓	06	-0.2	6				1757		Level 2
✓	07	-0.4	7				1823		Level 3, ccv
✓	08	-0.6	8				1850		Level 4
✓	09	-0.8	9				1917		Level 5
✓	10	-1.0	10				1943		Level 6
✓	11	✓ -5.0, 50:100	11				2010		Level 7, 2.5 ppm
✓	12	1685-127-6.0 TOX	12				2037		TOX
✓	13	1685-109A-1.0	13				2104		LCS murex
✓	14	1685-136-0.4	14				2130		LCS
✓	15	Hexane Blank	15				2157		
✓	16	0905142A-Blank	16				2328		
✓	17	-LCS	17			✓	2355		LCS
✓	18	-OIA	18			5/20/09	0021		
✓	19	-CIAA	18				0048		
✓	20	✓ -OYA	19				0115		
✓	21	1685-135-0.4	20				0142		
✓	22	Hexane Blank	21				0208		
✓	23	0905261A-Blank	22				0235		
✓	✓ 24	✓ -LCS	23	✓	✓	✓	0302		LCS

## Calculation Check:

File ID: 0051914Compound: g-BHCInitials: am

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{AVG}}} = \frac{9829798842 \times (2.100)}{21268438302 \times (2.25192)} = 2.59350$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.35742) \times (1000) \times (1.00)}{(1000)} = 0.35742$$

0.35742

0.35742

Reported Result = 0.3574

Signed

5/20/09

Date

Revised: 02/27/06

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

		CONCENTRATIONS			
		ON-COLUMN		FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	( area) ( 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	

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

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

Report Date: 20-May-2009 08:21

run 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 lizhang

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		

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

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

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

avg : 89.86 mns/2009

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: 1685-136-0.4-4.0Client Smp ID: LCS  
Inj Date : 19-MAY-2009 21:30  
Operator : LA/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d  
Als bottle: 1QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE	( ug)	( 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

CONCENTRATIONS						
Compounds	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
					( ug)	( 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.



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051914b.d

Calibration Time: 18:23

Lab Smp Id: 1685-136-0.4-4.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.

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

Data File: /chem/gcp.i/19May2009.b/P051914b.d

Date : 19-MAY-2009 21:30

Client ID: LCS

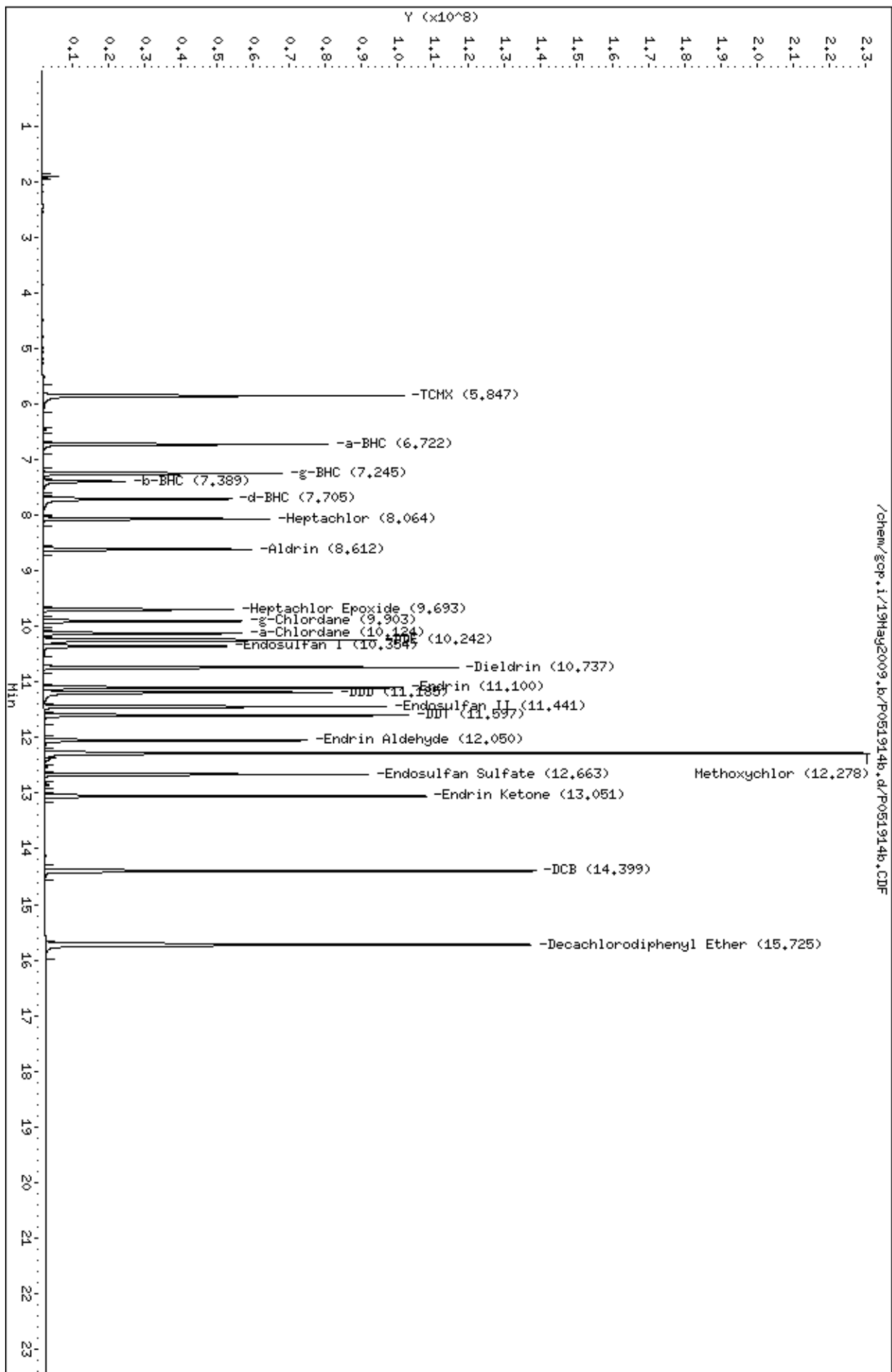
Sample Info: 1685-136-0.4-4.0

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/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						CONCENTRATIONS	
	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
=====	==	=====	=====	=====		( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051913b.d

Calibration Time: 18:23

Lab Smp Id: 1685-109A-1.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 19May2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 1685-109A-1.0	Client Smp ID: LCS
Level: LOW	Operator: LA/rn
Data Type: GC DATA	SampleType: LCS
SpikeList File: mirex.spk	Quant Type: ISTD
Sublist File: mirex.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
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

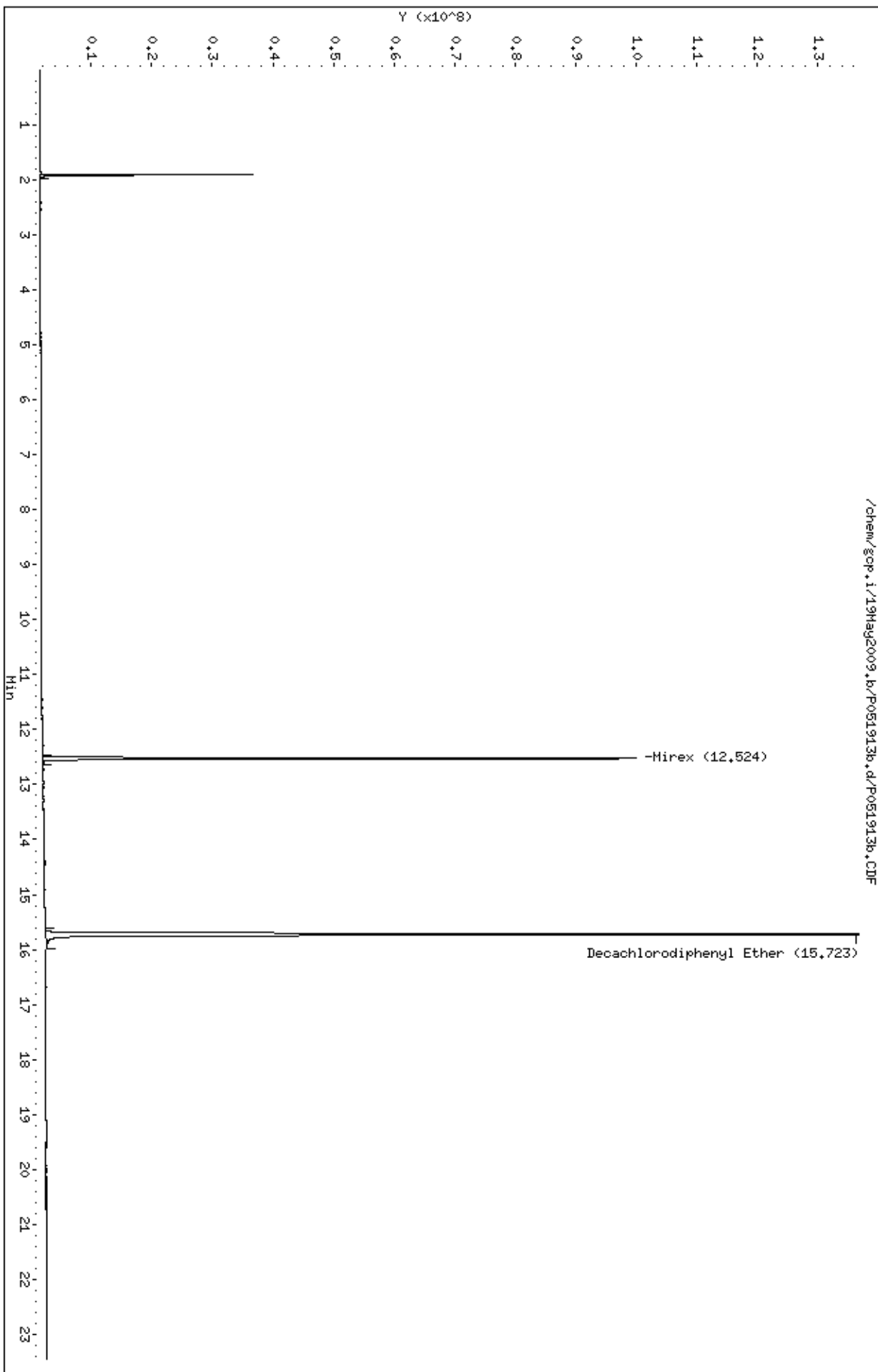
Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 17:30Cal File: P051905b.d  
Als bottle: 1Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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



AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051905b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.1

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/P051905b.d

Date : 19-May-2009 17:30

Client ID:

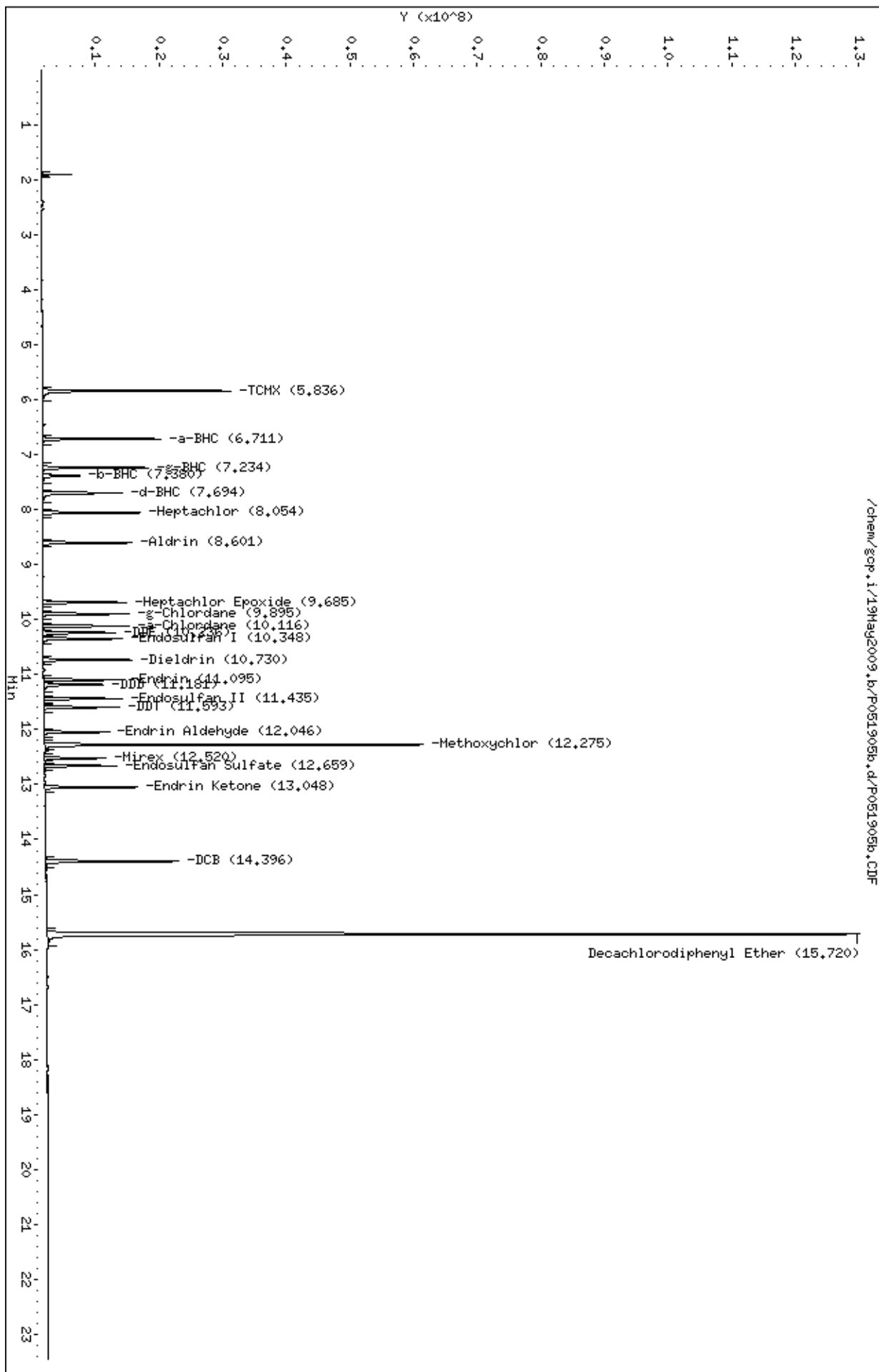
Sample Info: 1685-135-0.1

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/P051906b.d  
Lab Smp Id: 1685-135-0.2  
Inj Date : 19-MAY-2009 17:57  
Operator : LA/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 17:57Cal File: P051906b.d  
Als bottle: 1Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051906b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.2

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

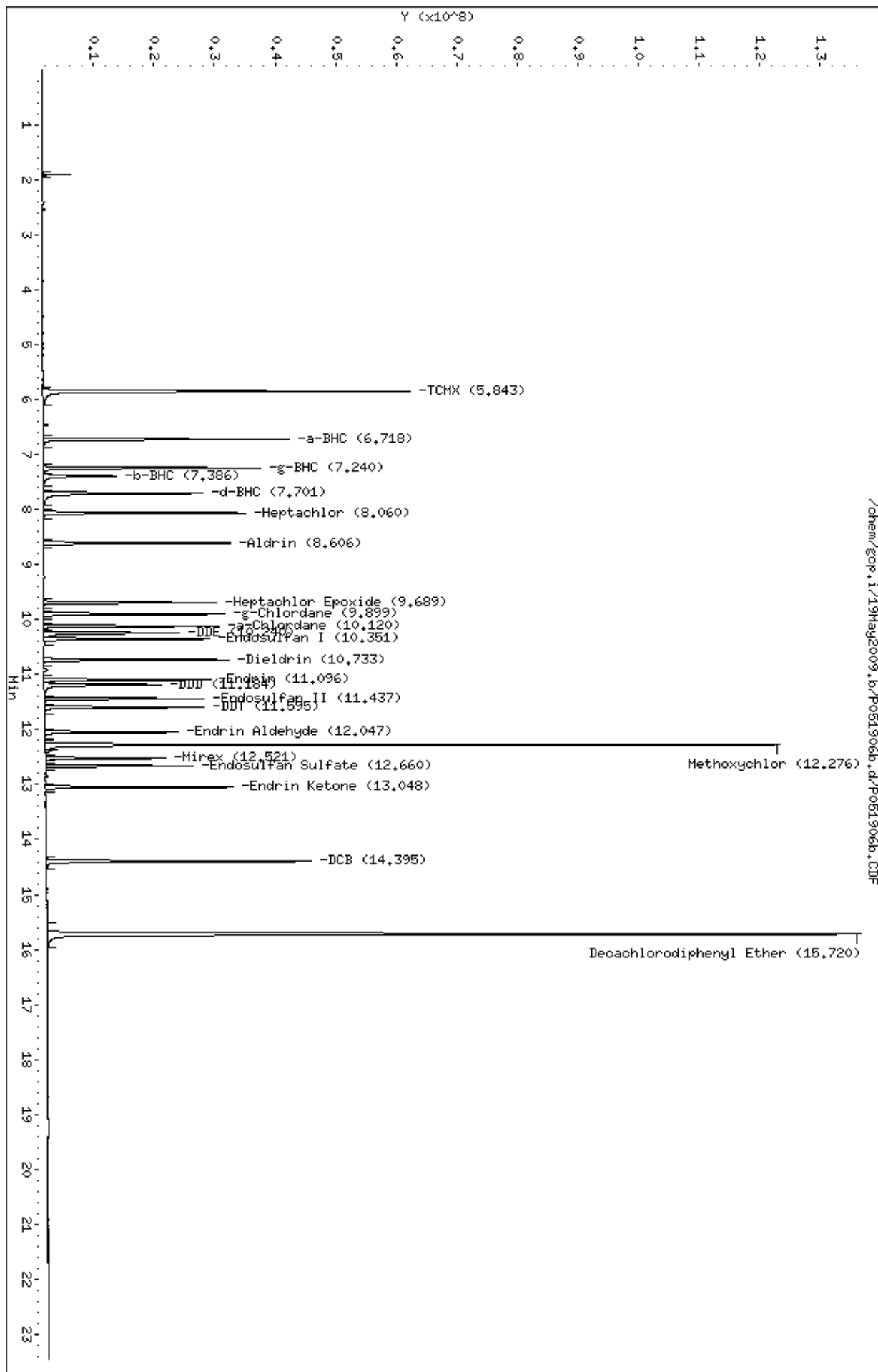
Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 18:23Cal File: P051907b.d  
Als bottle: 1Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051907b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.4

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

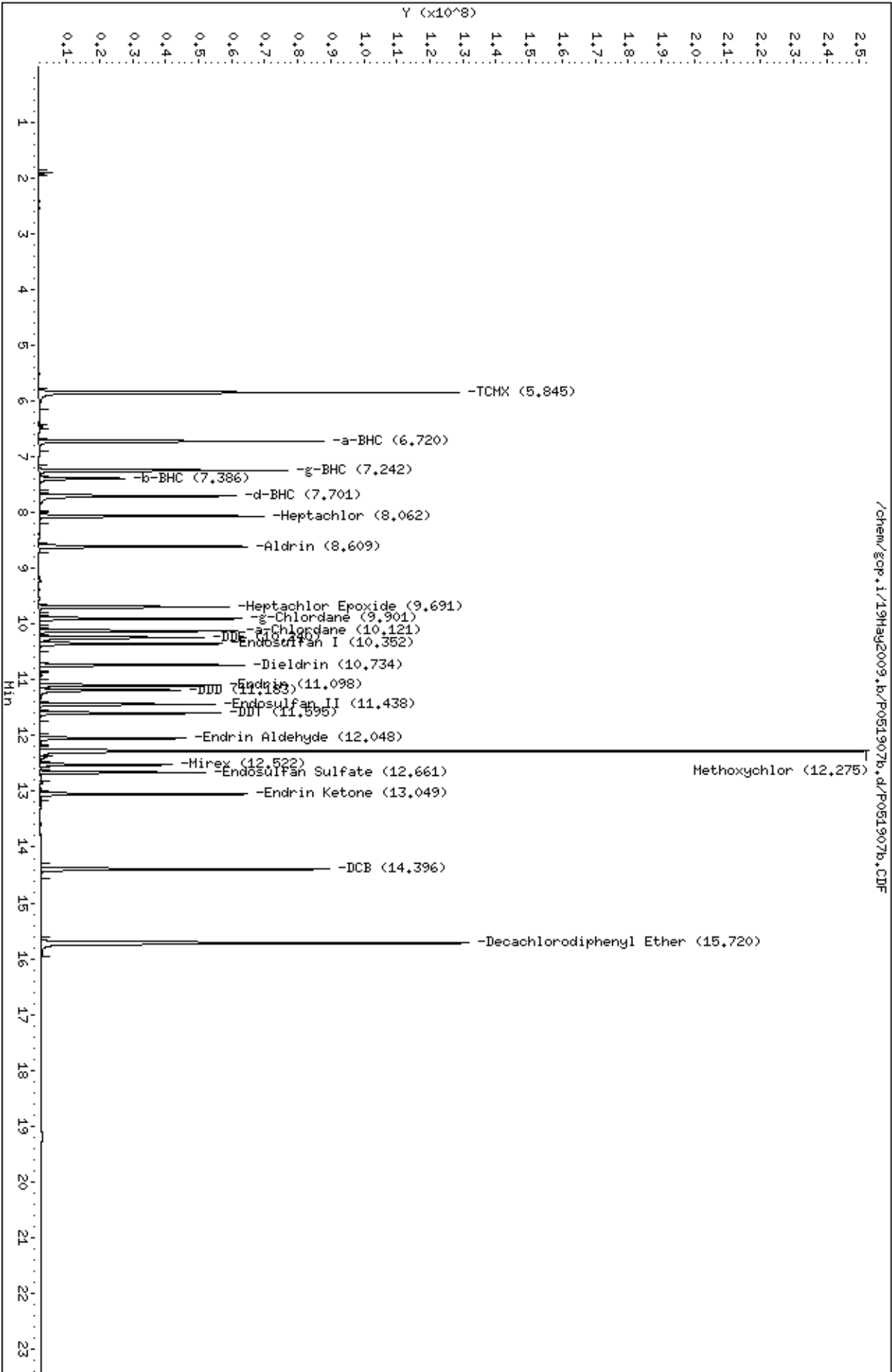
Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/qcp.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

						AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug)	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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051912b.d

Calibration Time: 18:23

Lab Smp Id: 1685-127-6.0

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/P051912b.d

Date : 19-May-2009 20:37

Client ID:

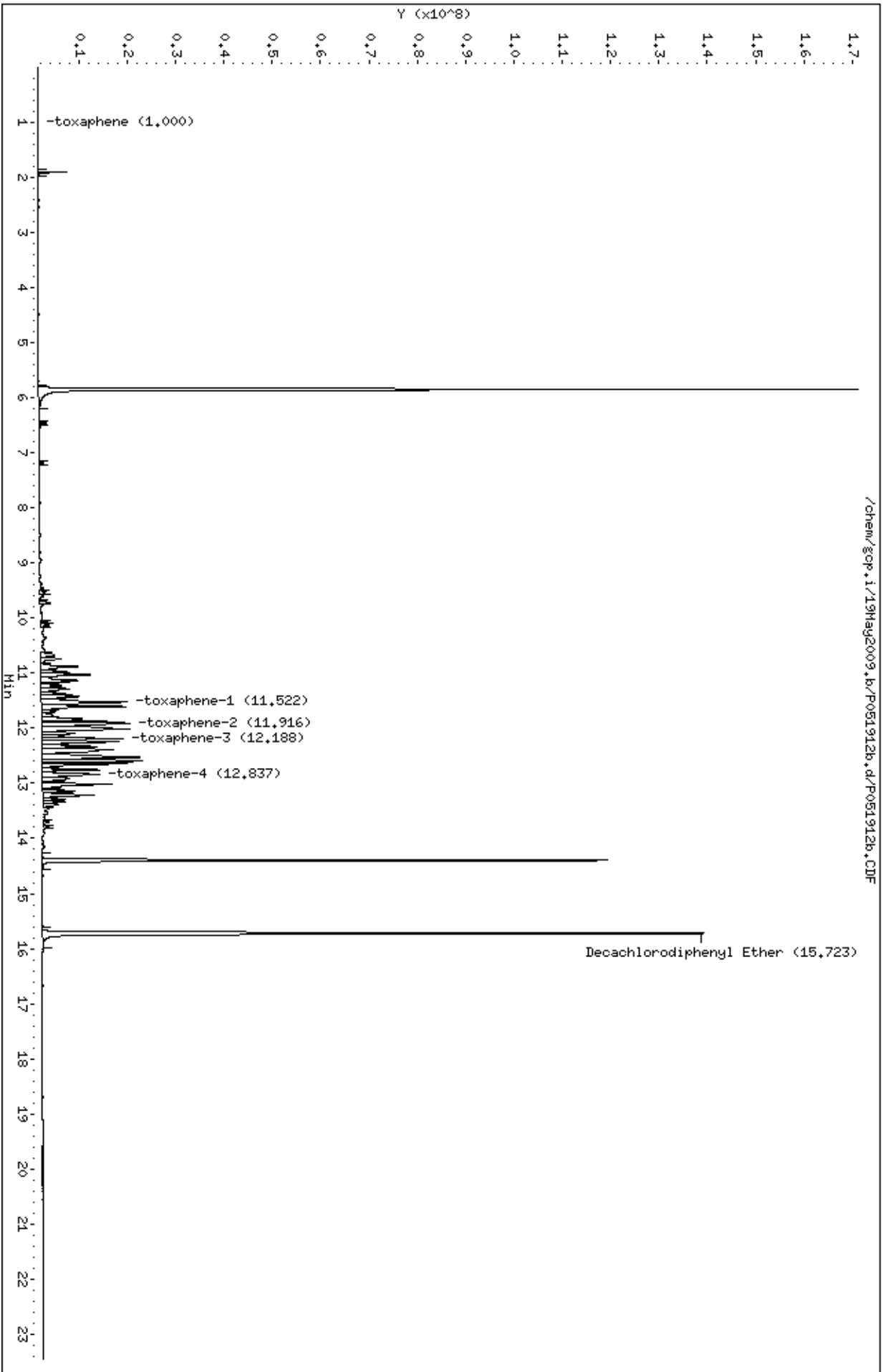
Sample Info: 1685-127-6.0

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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 18:50Cal File: P051908b.d  
Als bottle: 1Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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	



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051908b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.6

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

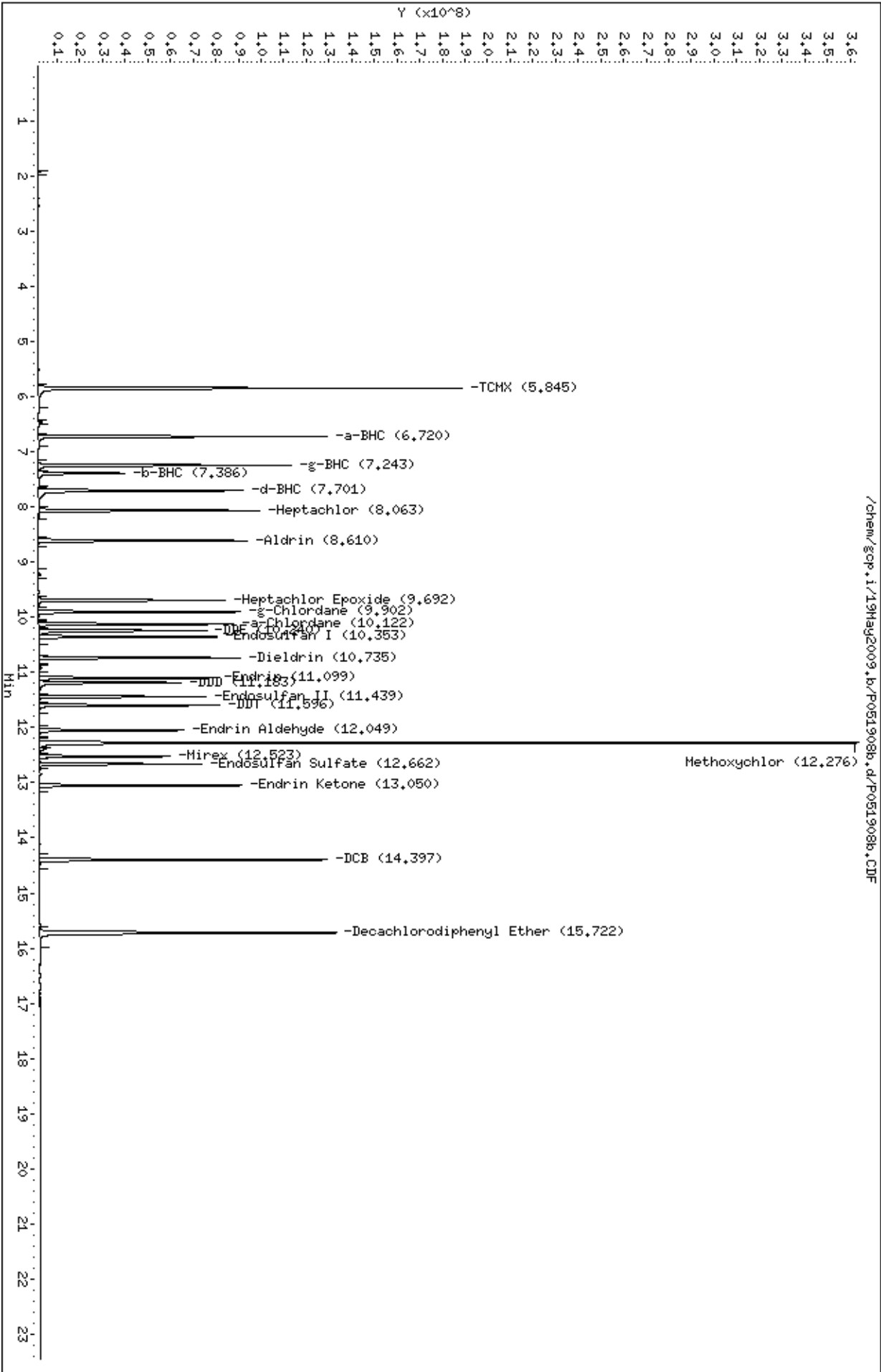
Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 lantonicQuant Type: ISTD  
Cal Date : 19-MAY-2009 19:17Cal File: P051909b.d  
Als bottle: 1Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

AMOUNTS						
				CAL-AMT	ON-COL	
Compounds				( ug)	( 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						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051909b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.8

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

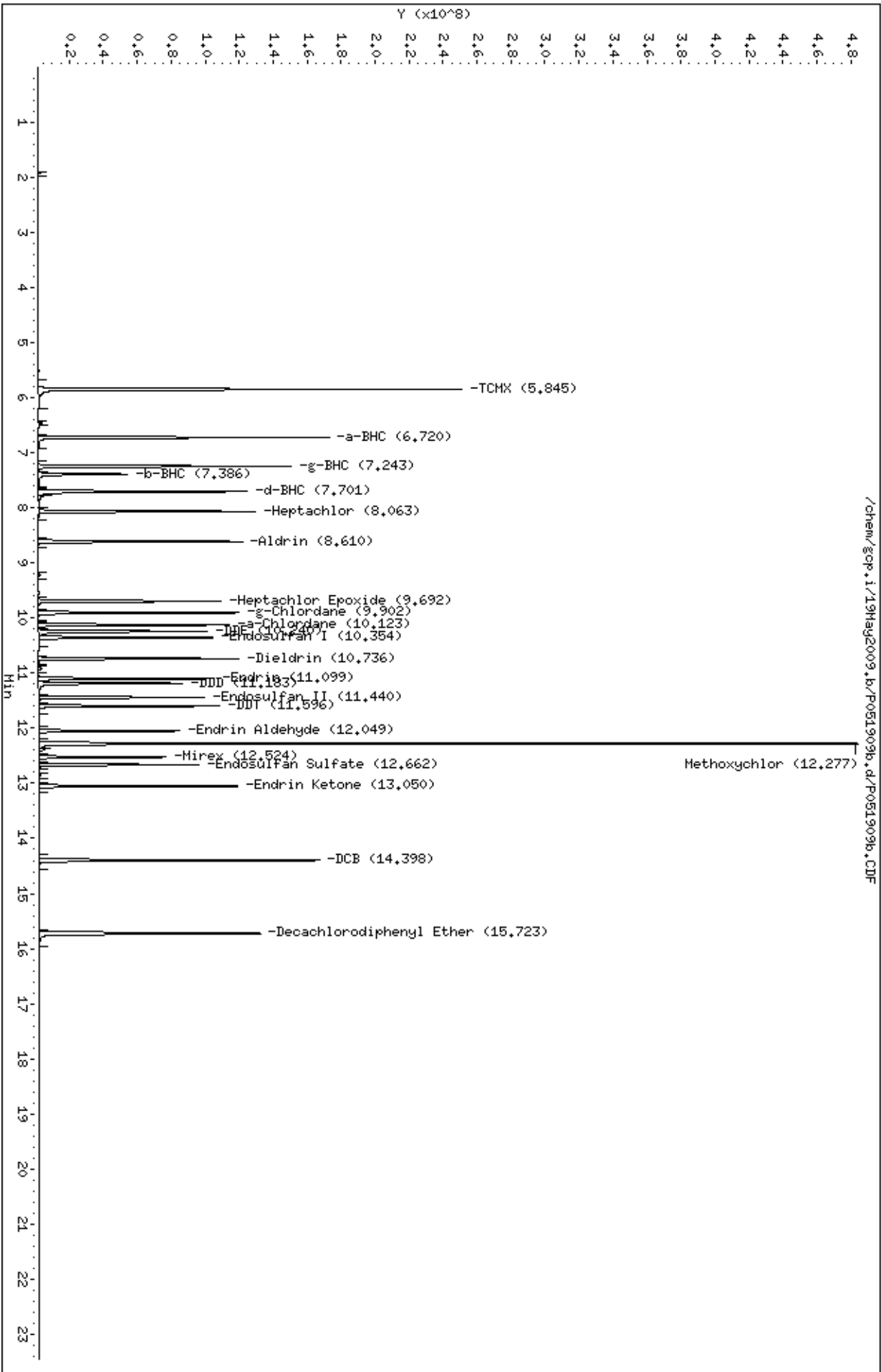
Sample Info: 1685-135-0.8

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

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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.



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051910b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-1.0

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/PO51910b.d

Date : 19-May-2009 19:44

Client ID:

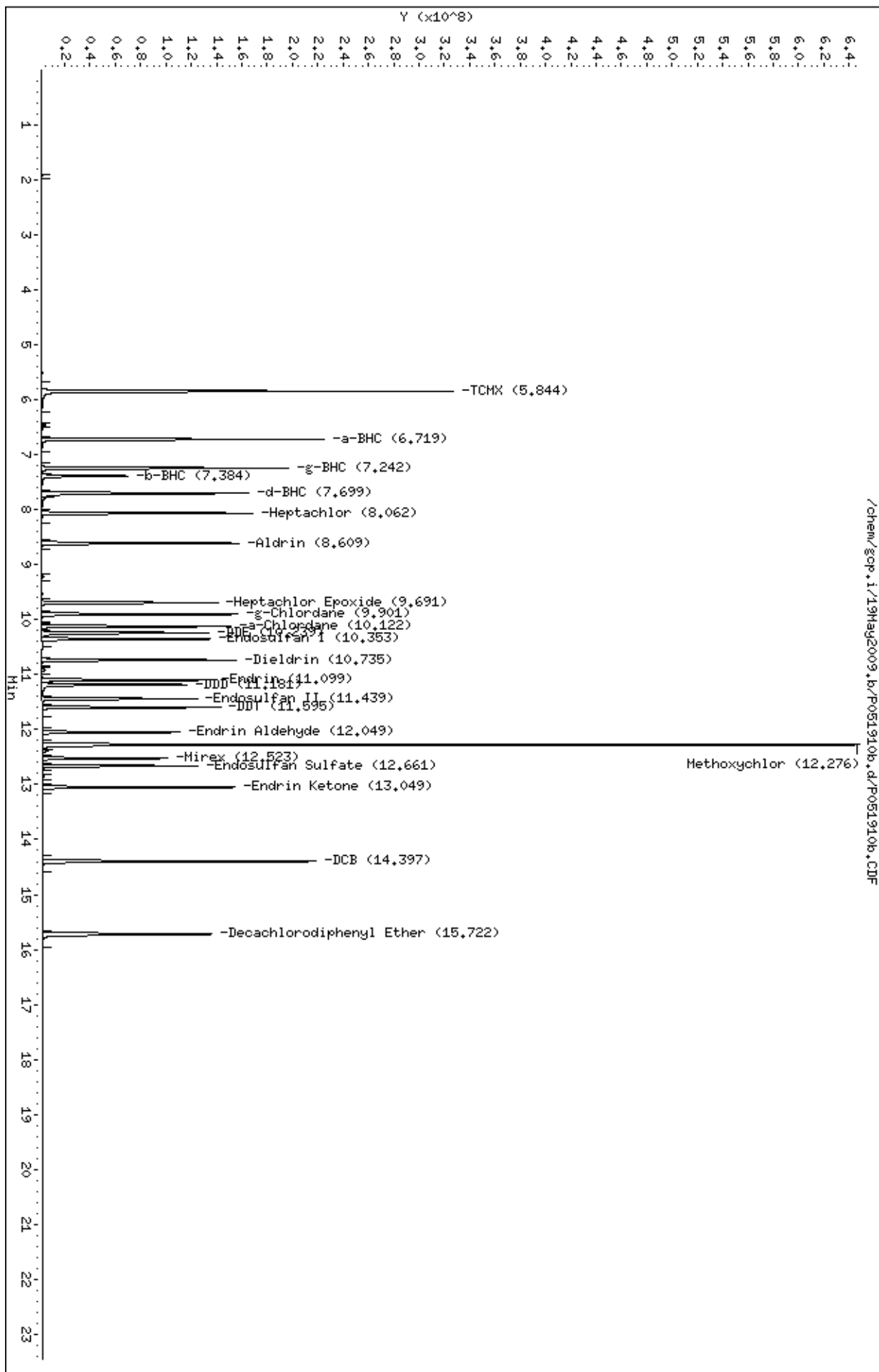
Sample Info: 1685-135-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



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/rnInst 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 rnoonanQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:10Cal File: P051911b.d  
Als bottle: 1Calibration Sample, Level: 7  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 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	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( 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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051911b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-2.5

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/PO51911b.d

Date : 19-May-2009 20:10

Client ID:

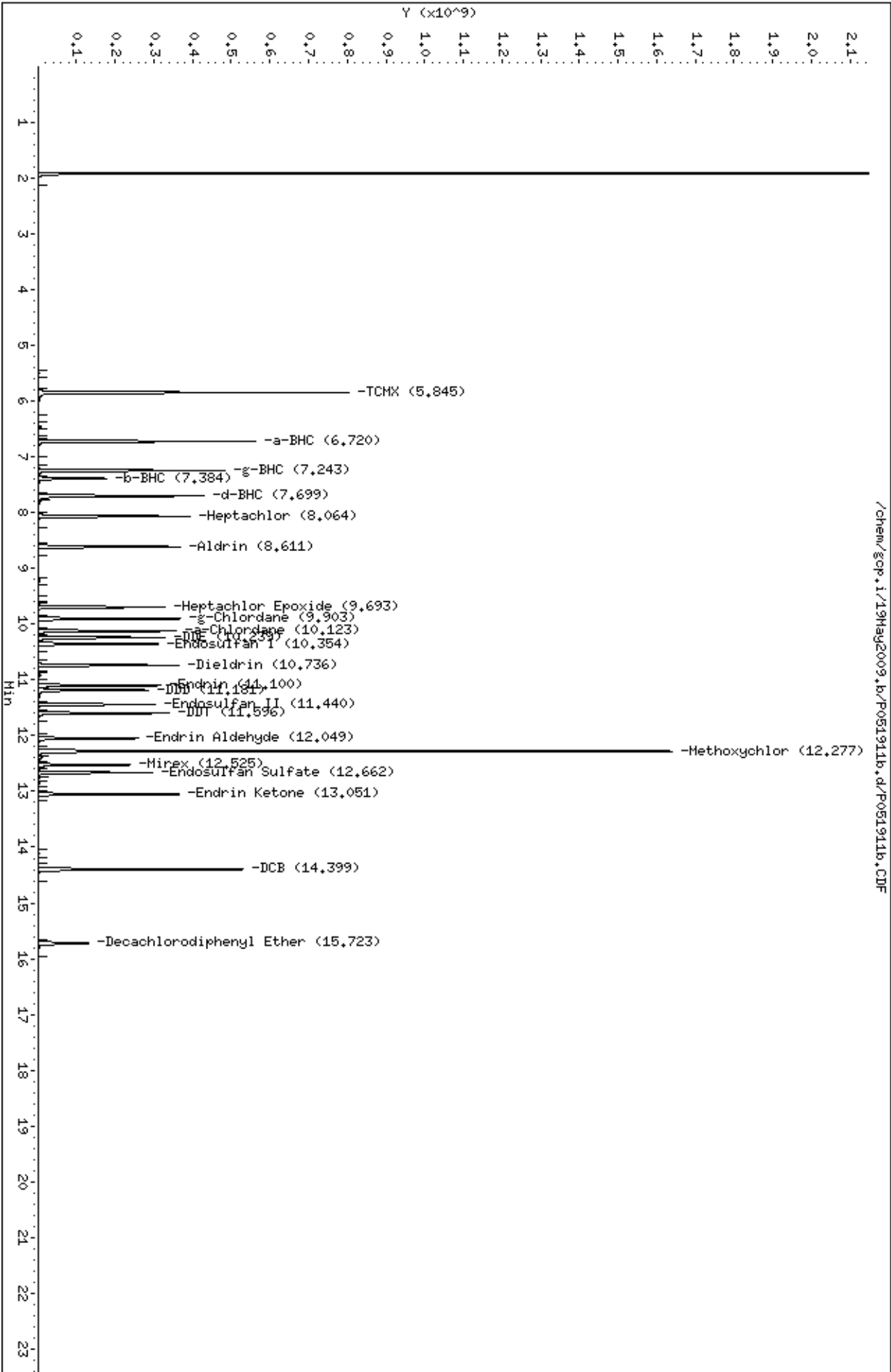
Sample Info: 1685-135-2.5

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 lizhang
Curve Type         : Average

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Calibration File Names:

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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
```

[illegible]





## 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
```

[illegible]

## INITIAL CALIBRATION DATA

		1.000	3.000	5.000	8.000	10.000	12.000	—	
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
		-----	-----	-----	-----	-----	-----		
		15.000							
		Level 7							
=====		=====	=====	=====	=====	=====	=====	=====	=====
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
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204.d
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
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206.d
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207.d
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208.d
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	/chem/gcp.i/22May2009.b/P052206a.d
Ccal Level: 4 , Ccal Amount: 8.00	
22-MAY-2009 20:26	/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: P052203

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 injector

Compound	1.000   3.000   5.000   8.000   10.000   12.000						RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
unit is ppm								
	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
-----								

non 6/1/09  
6/1/09

83

**Injection Volume:** 1.0  $\mu\text{L}$

[illegible]

Revised: 02/27/06

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

85

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

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	PO52601 Hexane Wash	1	1.0	LA	5/26/09	1549	LA	
2	✓	02 1685-137-8.0 PCB CCV	2		↓		1616		
3	✓	03 1685-133-8.0 PCB CCV	3				1643		
4	✓	04 1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05 Hexane Wash	1		non		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 5/27/09 MW
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		non		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: PO52619 Compound: a-BHCInitials: non

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{Avg}}} = \frac{16405387052 \times (2.00)}{18047703541 (2.78691)} = 0.65234$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.65234) \times (1000) \times (1)}{(1000)} = 0.65234$$

Signed

Date

Reported Result =

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

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( 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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 26-MAY-2009

Lab File ID: P052603.d

Calibration Time: 16:16

Lab Smp Id: 1685-153-8.0 PCB

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA

Method File: /chem/gcp.i/26May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.

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

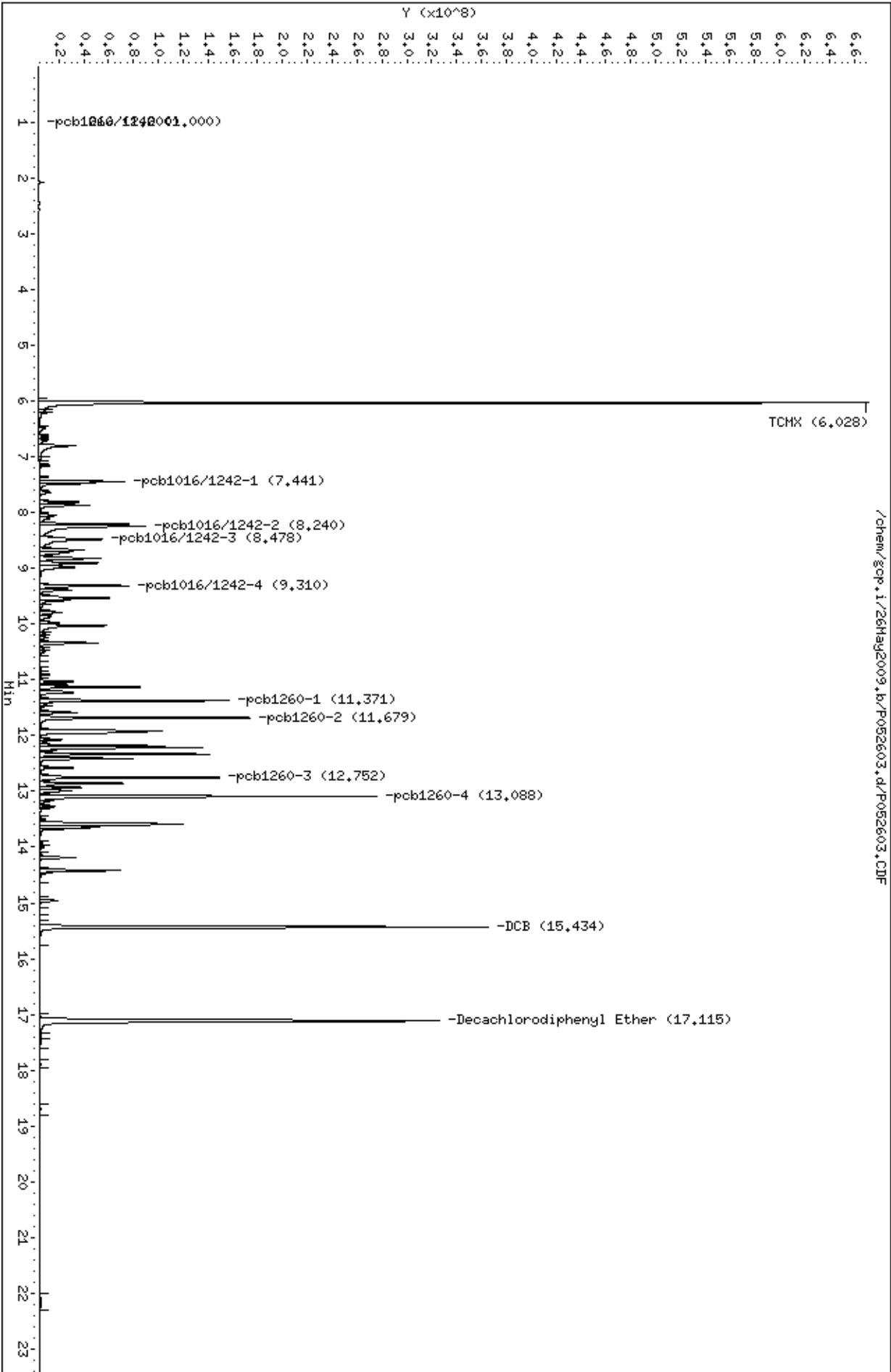
Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00



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

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052203.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-1.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

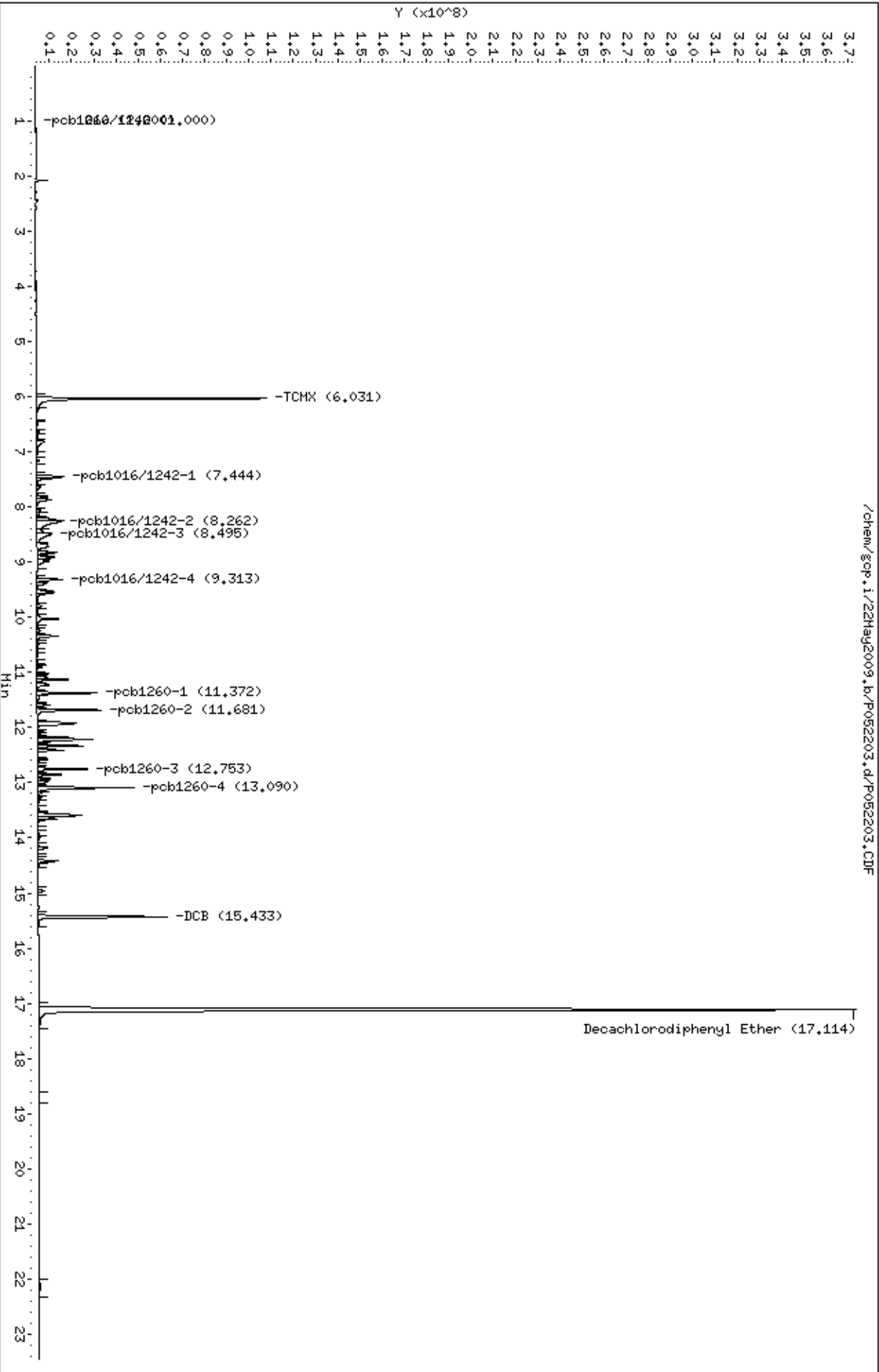
Sample Info: 1685-137-1.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

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



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052204.d

Calibration Time: 19:32

Lab Smp Id: 1685-137-3.0

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

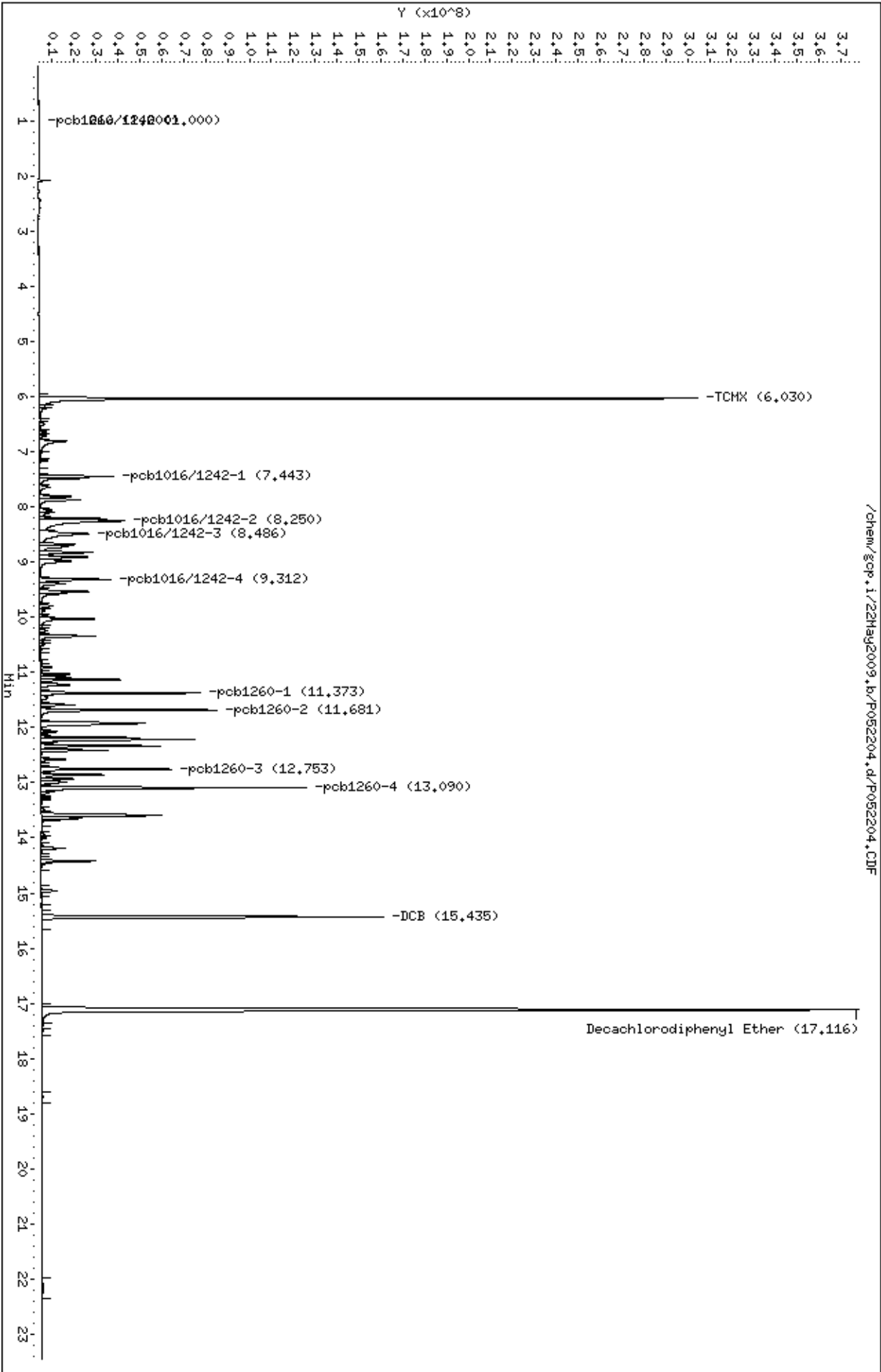
Sample Info: 1685-137-3.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

AMOUNTS						
				CAL-AMT	ON-COL	
Compounds				(ug/mL)	(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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052214.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1254

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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

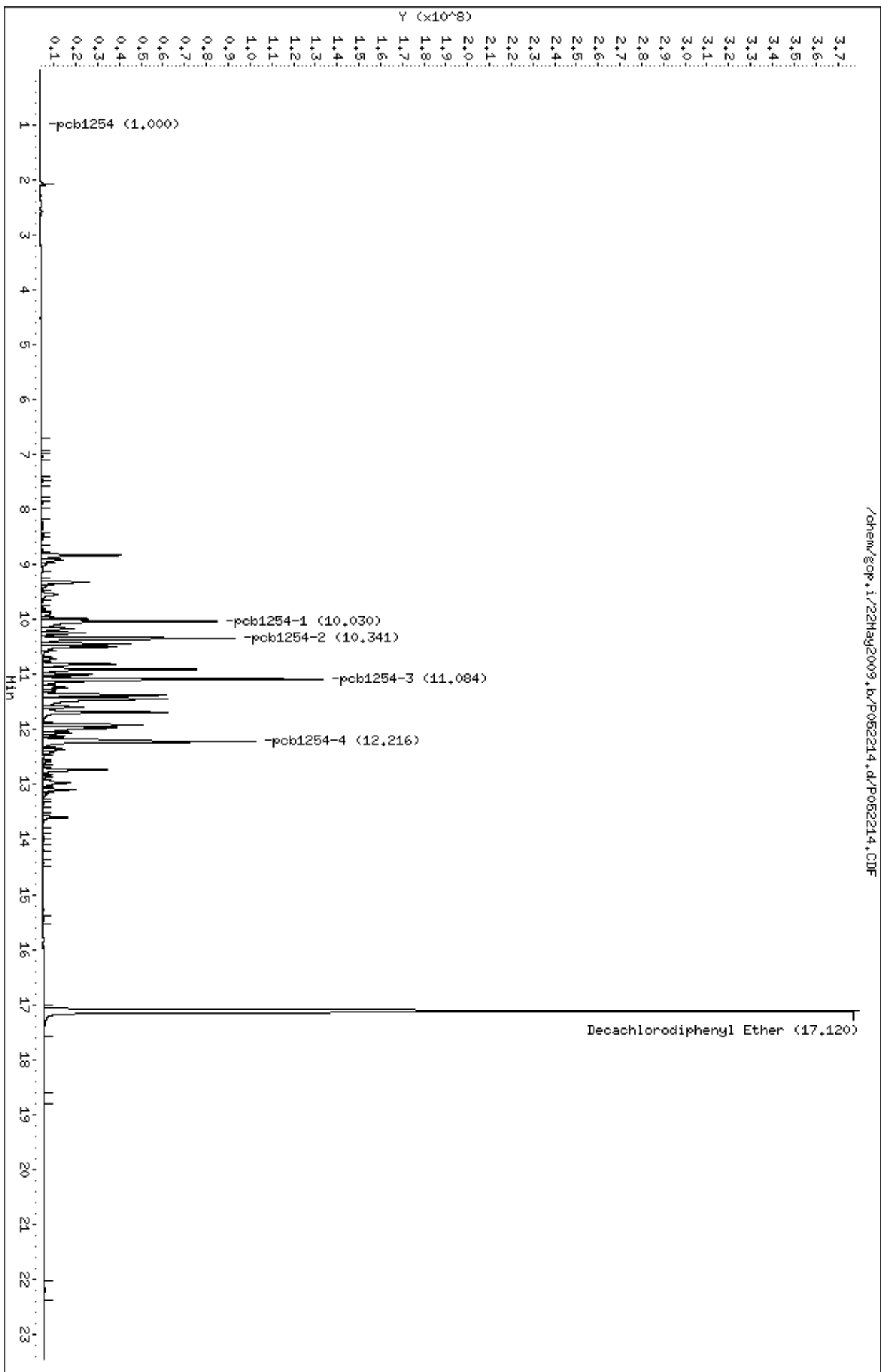
Sample Info: 1685-121-5.0 PCB 1254PCB 1254

Column phase:

Instrument: gcp.i

Operator: m

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

		AMOUNTS				
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052213.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1248

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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

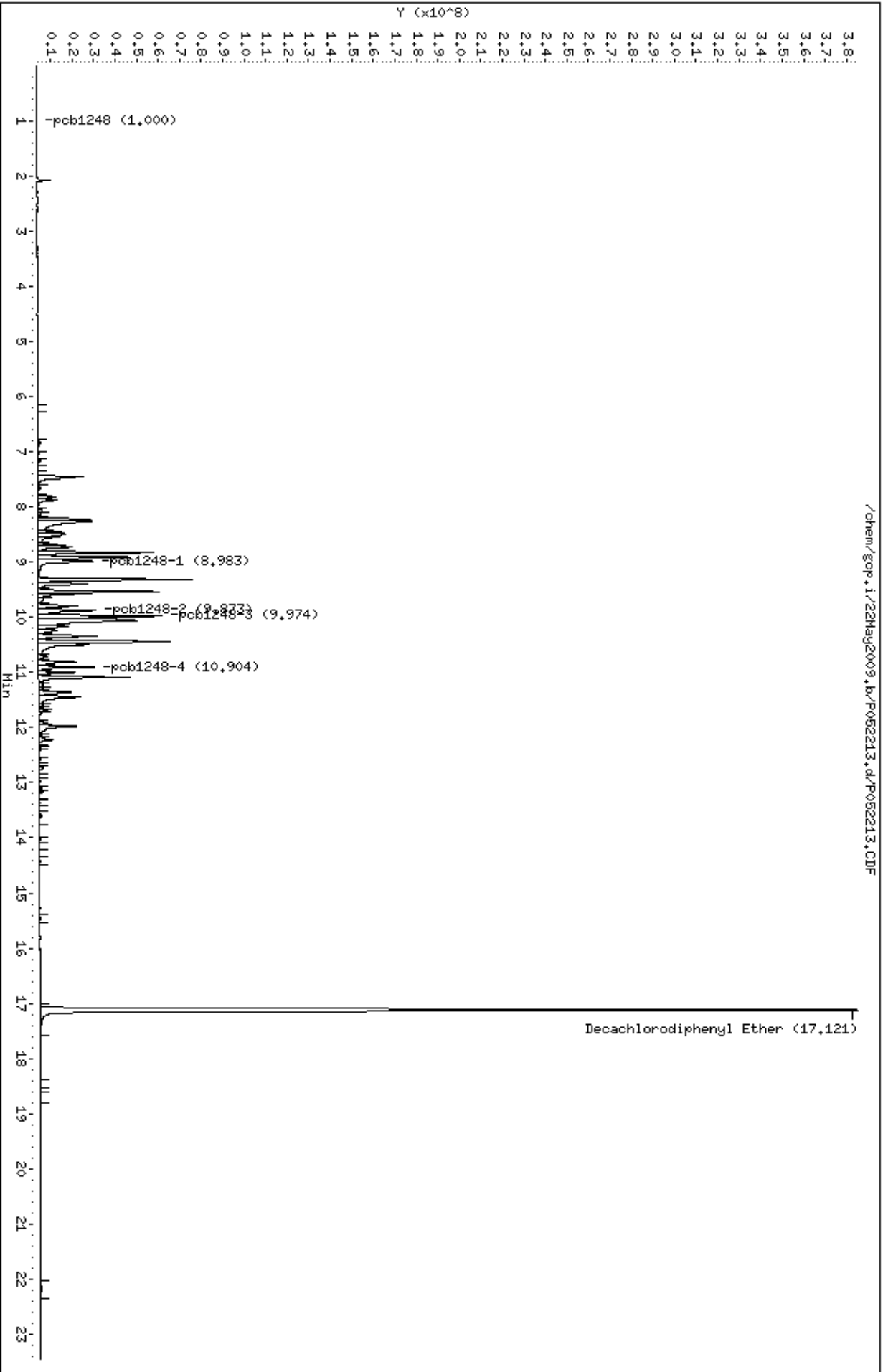
Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00





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

		AMOUNTS				
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052212.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1232

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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

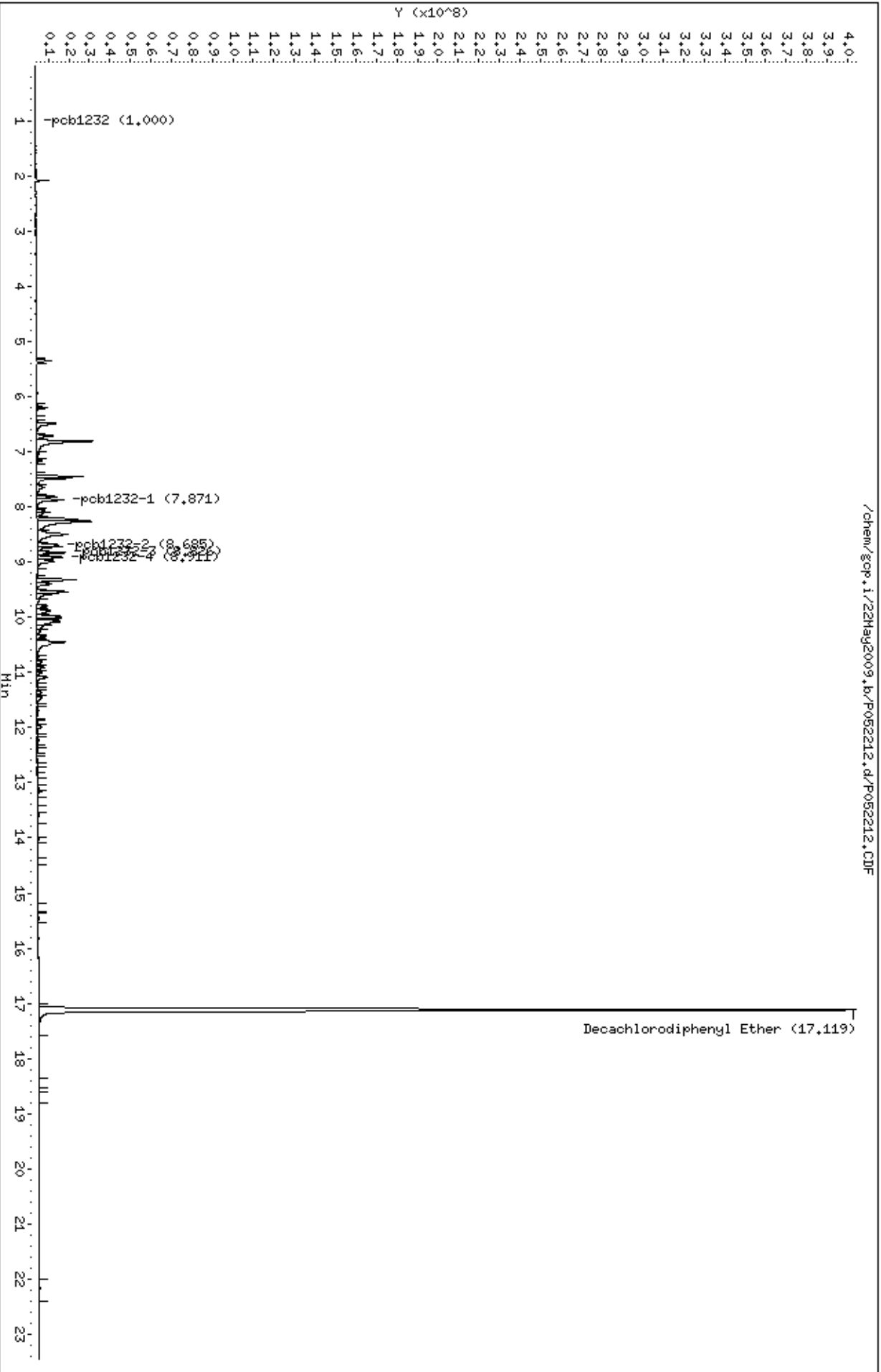
Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

AMOUNTS						
				CAL-AMT	ON-COL	
Compounds				(ug/mL)	(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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052211.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1221

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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

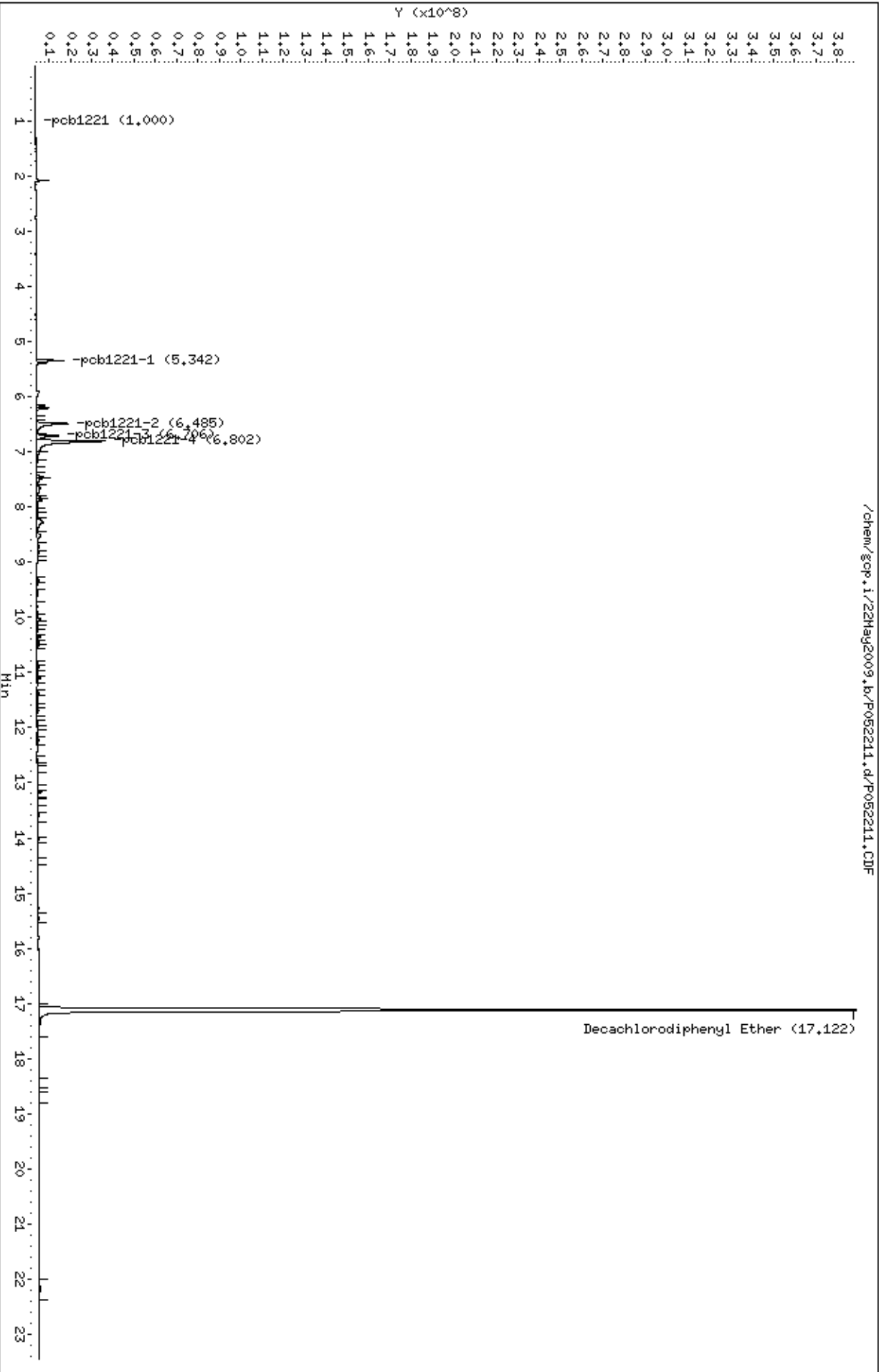
Sample Info: 1685-121-5.0 PCB 1221

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052205.d

Calibration Time: 23:59

Lab Smp Id: 1685-137-5.0

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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:

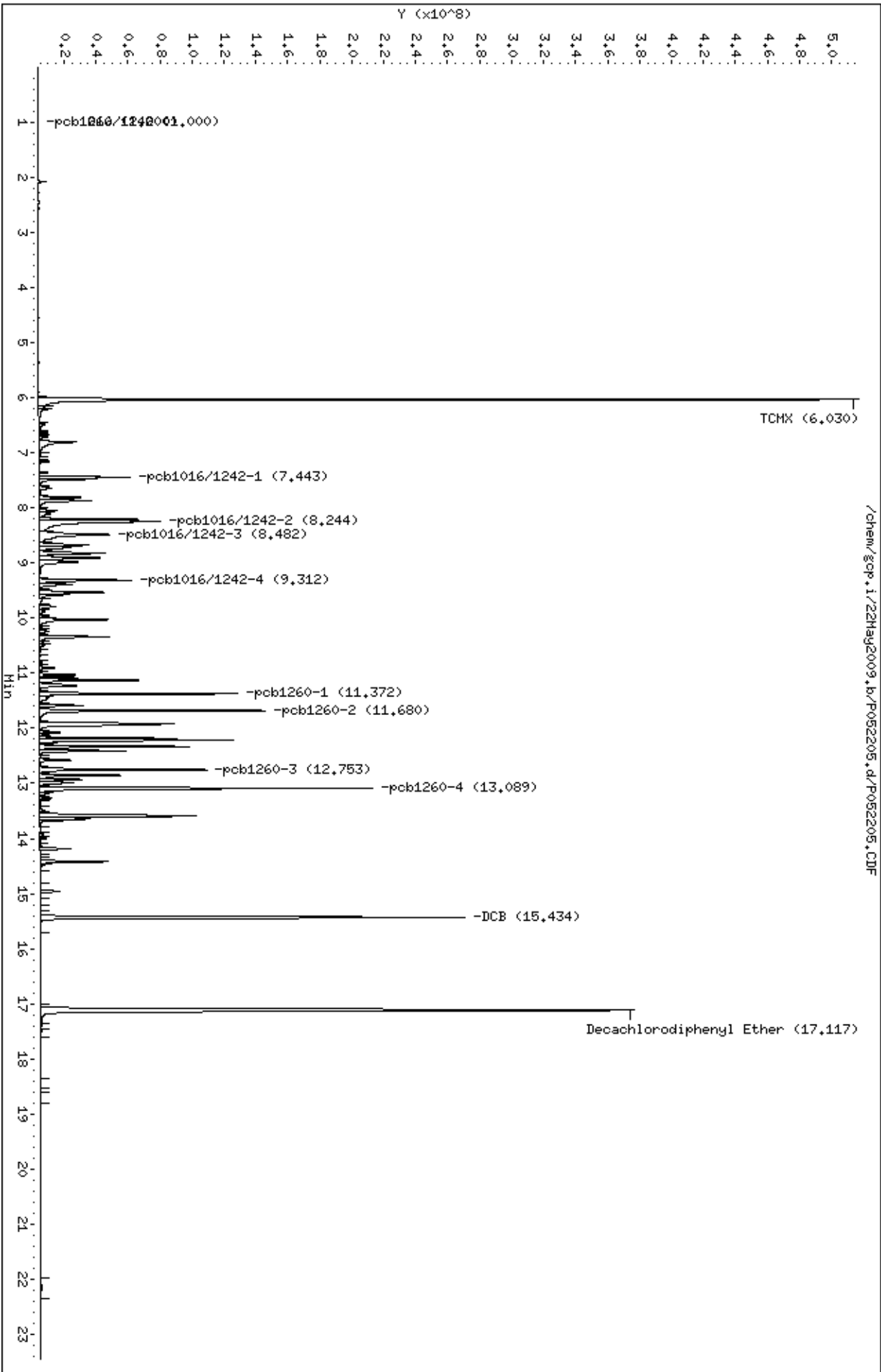
Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052206.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-8.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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:

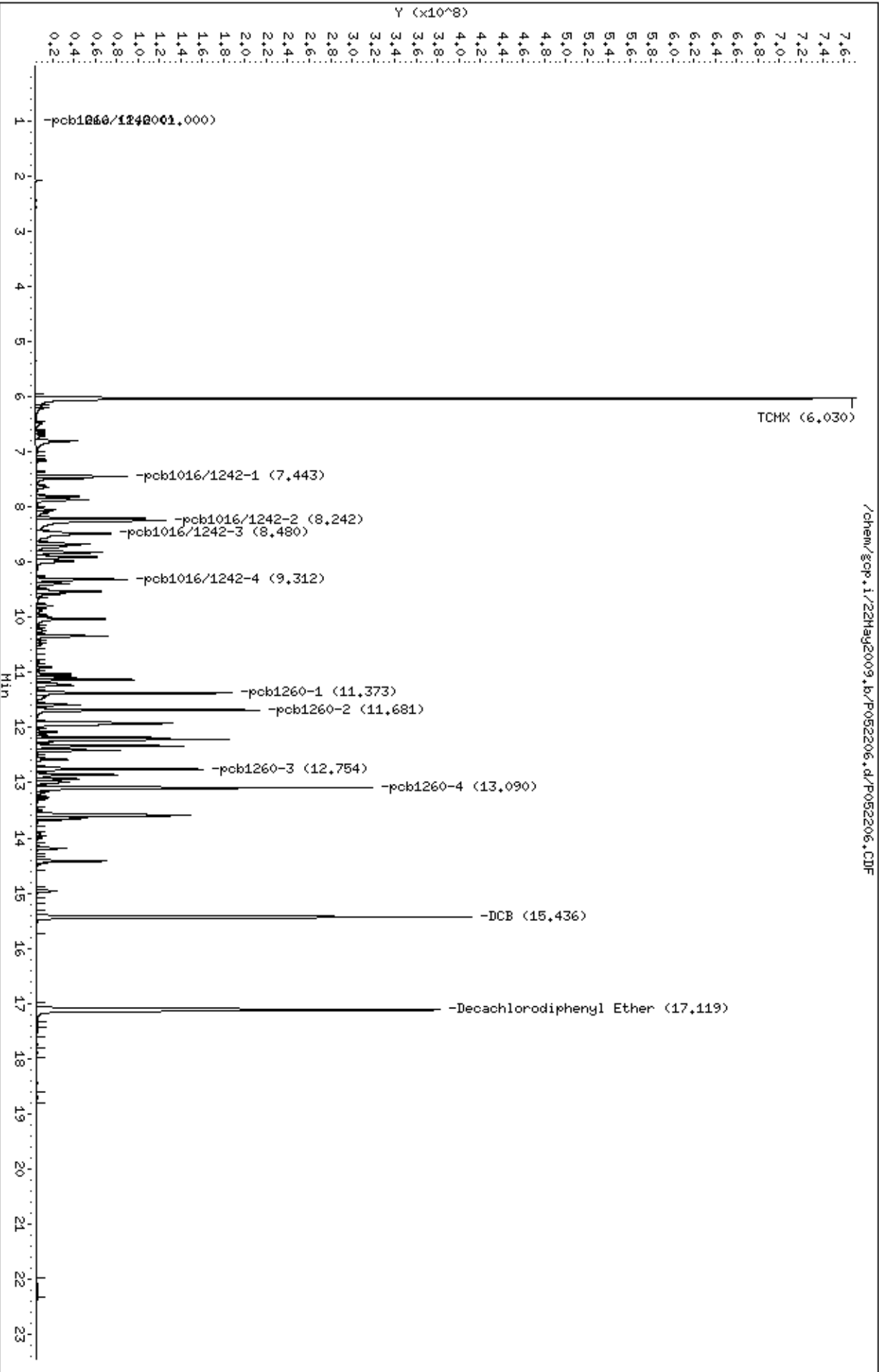
Sample Info: 1685-137-8.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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	ON-COL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)
=====		==	=====	=====	=====	=====
\$ 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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052207.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-10

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

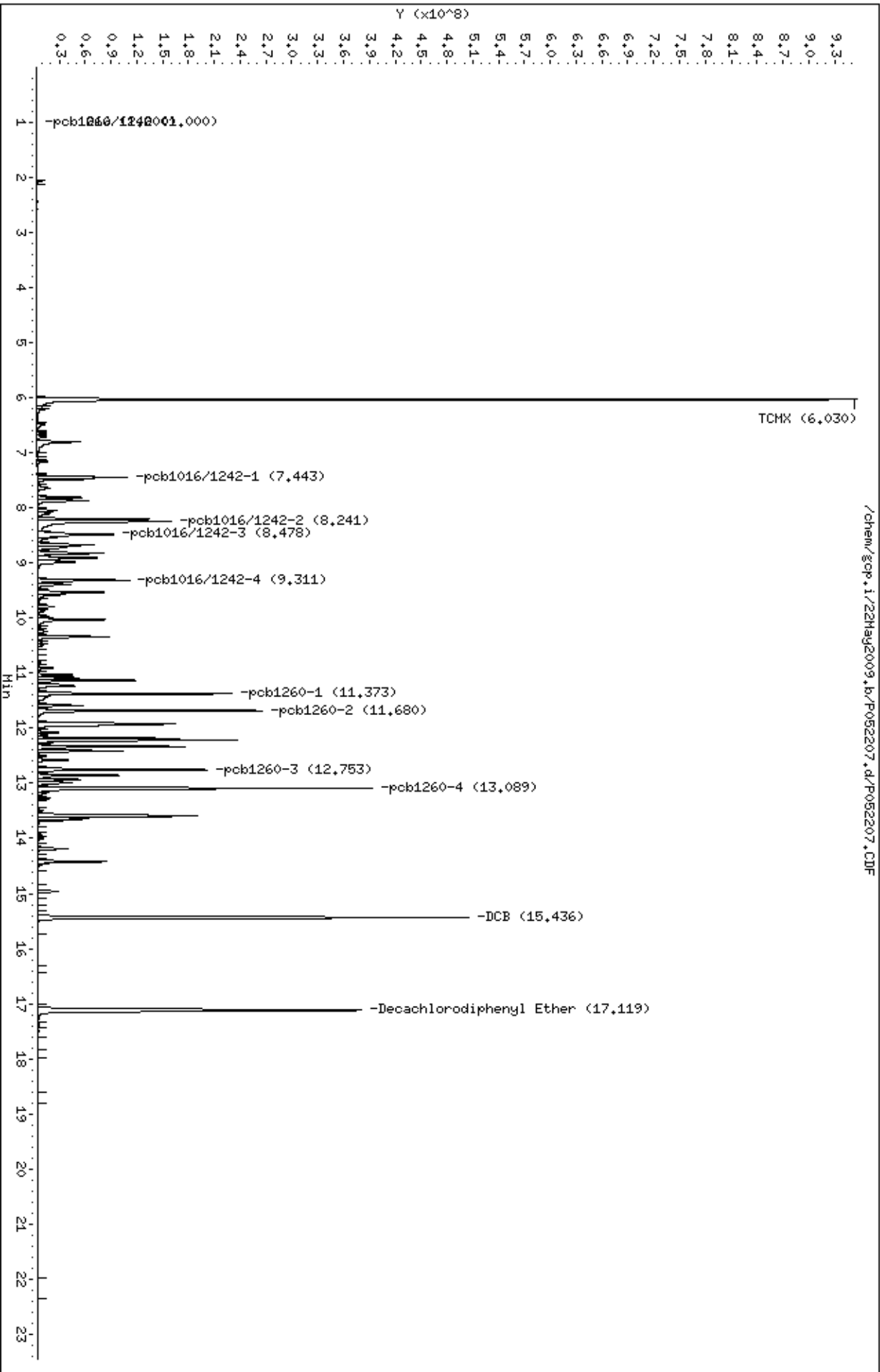
Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

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



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052208.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-12

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

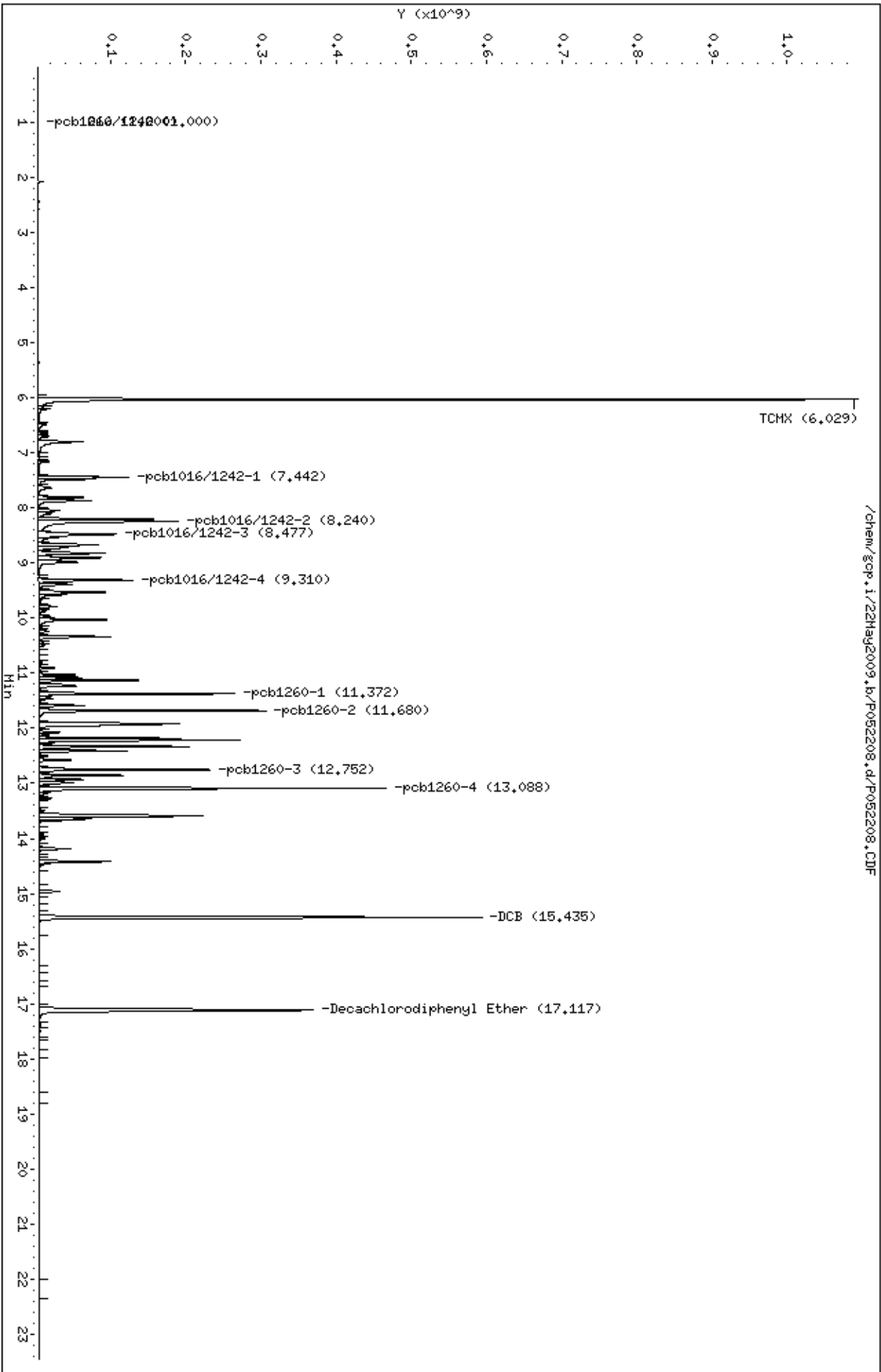
Sample Info: 1685-137-12

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052209.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-15

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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:

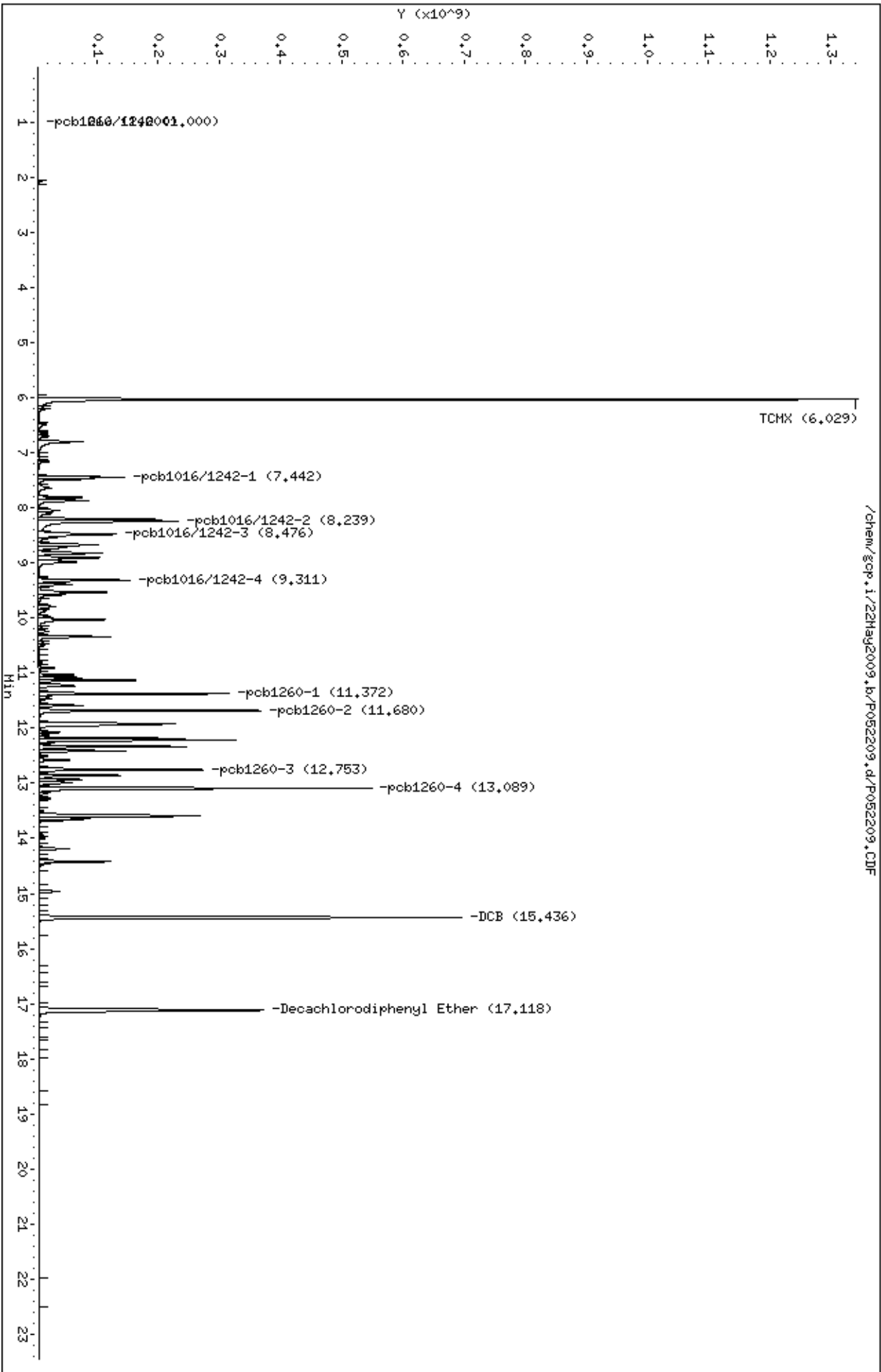
Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00





## INITIAL CALIBRATION DATA

[illegible]

## INITIAL CALIBRATION DATA

[illegible]



## INITIAL CALIBRATION DATA

Curve Type : Average

		1.000	3.000	5.000	8.000	10.000	12.000	—	
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
		-----	-----	-----	-----	-----	-----		
		15.000							
		Level 7							
=====		=====	=====	=====	=====	=====	=====	=====	=====
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
Maximum 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
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204b.d
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
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206b.d
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207b.d
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208b.d
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

2<sup>nd</sup> 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 - P052215b info only

Based on 1ul injection

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

nan 6/11/09

6/11/09

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

83

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: ↓	Endrin Front: NA Back: ↓
1685-320-50	Decafluorodiphenyl Ether	Front: 21320271892 Back: 6209665562	DDT Front: ↓ Back: ↓
NA	NA	Front: NA Back: ↓	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	P052201	Hexane Wash	1	1.0	REM	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 <sup>PCB</sup>	10				2213	surr ↑
11	✓	11	1685-121-5.0 <sup>PCB</sup>	11				2239	
12	✓	12	1685-121-5.0 <sup>PCB</sup>	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									

## Calculation Check:

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

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample}} = \frac{18922798359}{21320271892} \times (2.00) = 1.766$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(1.766) \times (1000) \times (1.00)}{(1000)} = 1.766$$

*Symon Antonelli*  
Signed

5/22/09

Date

Reported Result = 7.66

Revised: 02/27/06

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

85

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: ↓	Endrin Front: 5.77% Back: 5.97%
1685-32D-525	Decafluorodiphenyl Ether	Front: 18898128504 Back: 5731711199	DDT Front: 8.40% Back: 6.48%
NA	NA	Front: NA Back: ↓	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	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 CCV	3				1643		
4	✓	04 1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05 Hexane Wash	1		DDT		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	6008		B Low 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		DDT		1802		
21	✓	21 0905530A-05AA	16		↓		1829		
22	✓	22 1685-135-0.6 Pest CCV	17	↓	↓	↓	1855		
23									
24							✓ 5/27/09		

## Calculation Check:

File ID: V052619 Compound: α-BHCInitials: DDT

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{AVG}}} = \frac{14405387052 \times (2.00)}{1804770354 \times (2.78691)} = 0.65234$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.65234) \times (1000) \times (1)}{(1000)} = 0.65234$$

*DDT*

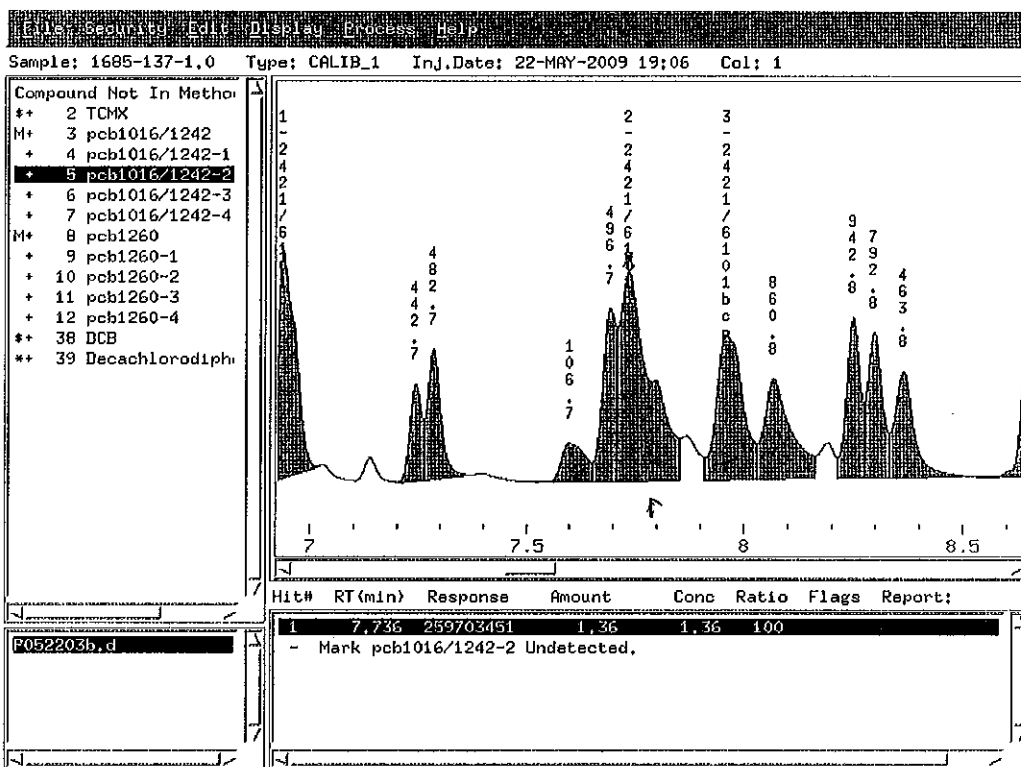
Signed

5/27/09

Date

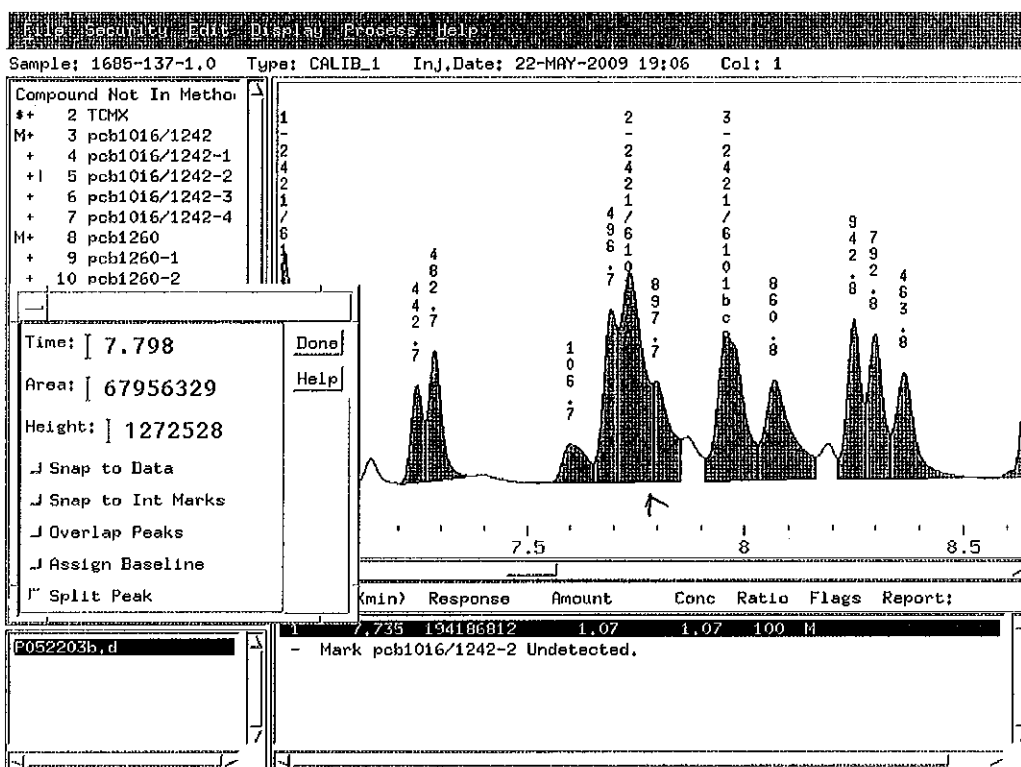
Reported Result =

Revised: 02/27/06



Before  
 4.611109  
 4.5





### After

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

6/11/09

SS 6/11/09

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

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 26-MAY-2009

Lab File ID: P052603b.d

Calibration Time: 16:16

Lab Smp Id: 1685-153-8.0 PCB

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA

Method File: /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

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

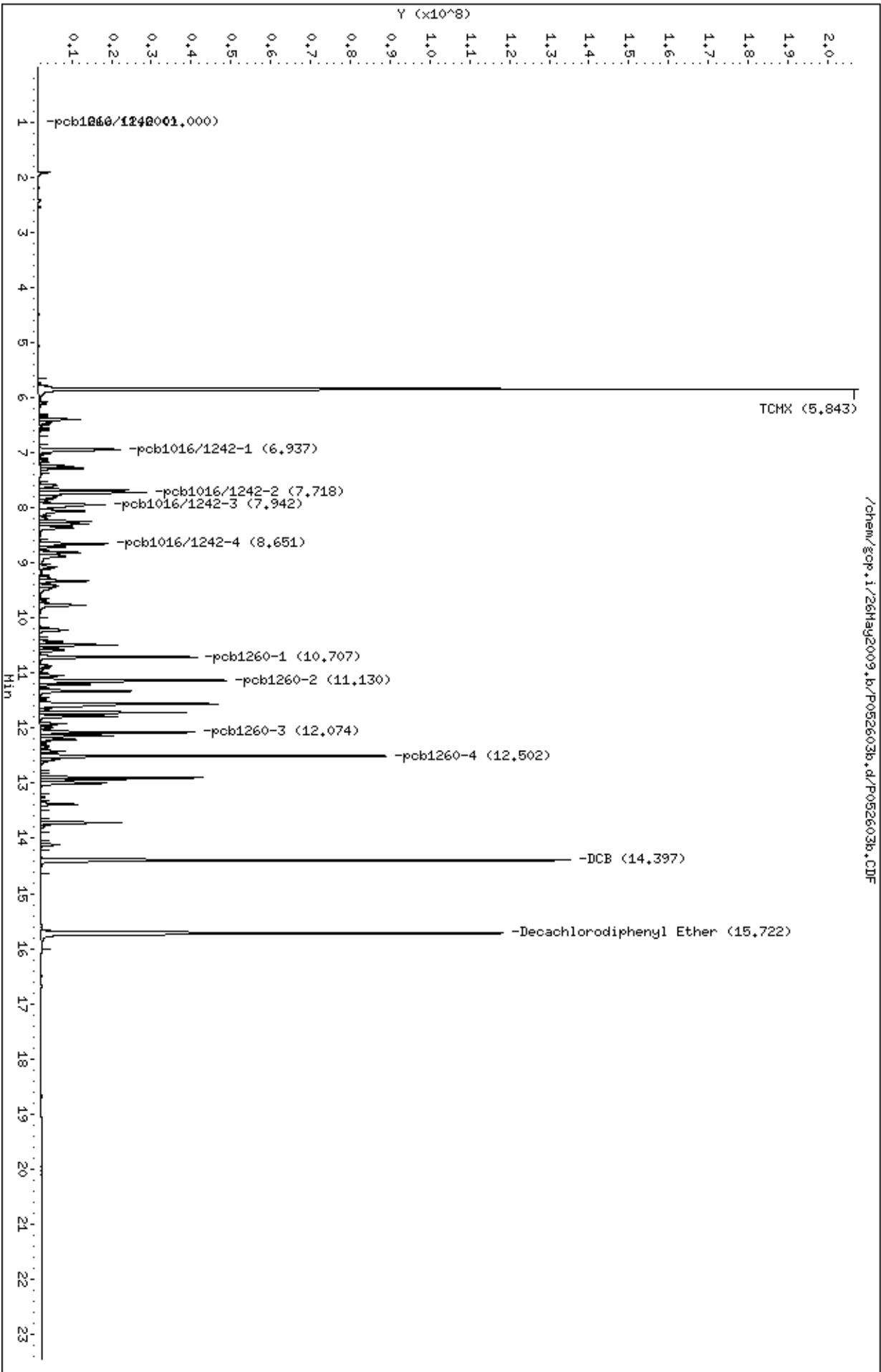
Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00





# QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052203b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-1.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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

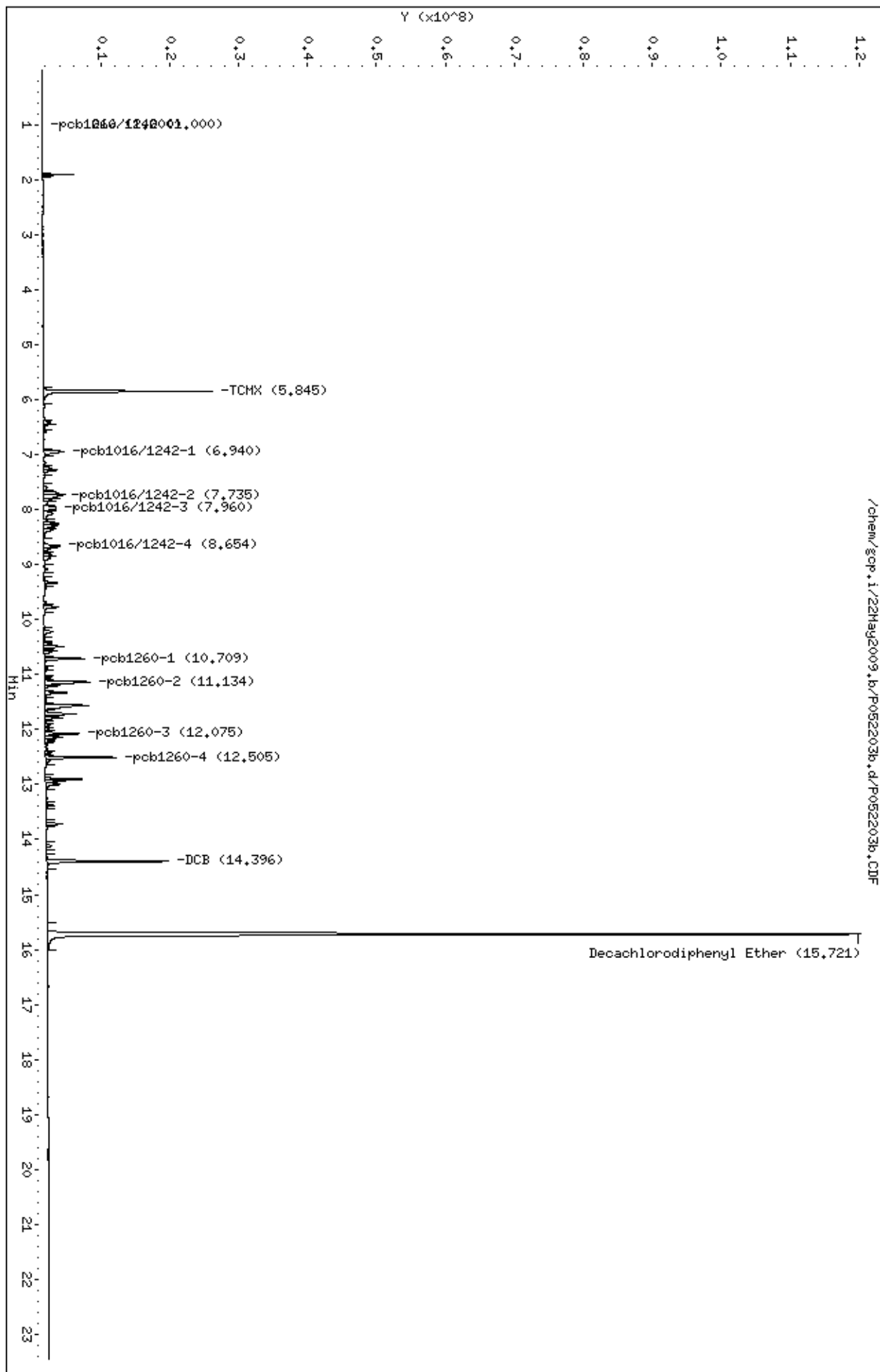
Page 1

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052204b.d

Calibration Time: 19:32

Lab Smp Id: 1685-137-3.0

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

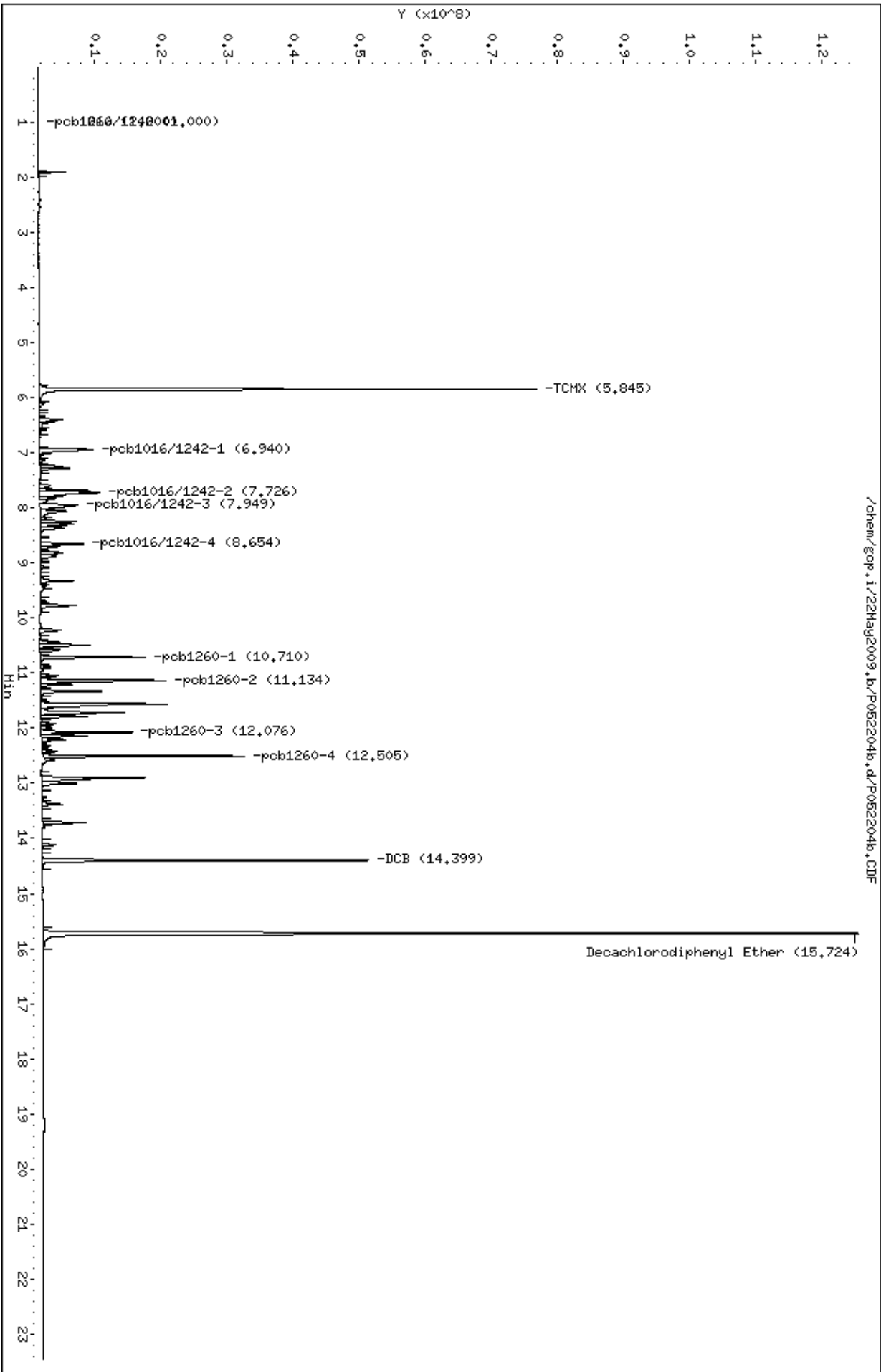
Sample Info: 1685-137-3.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052214b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1254

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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

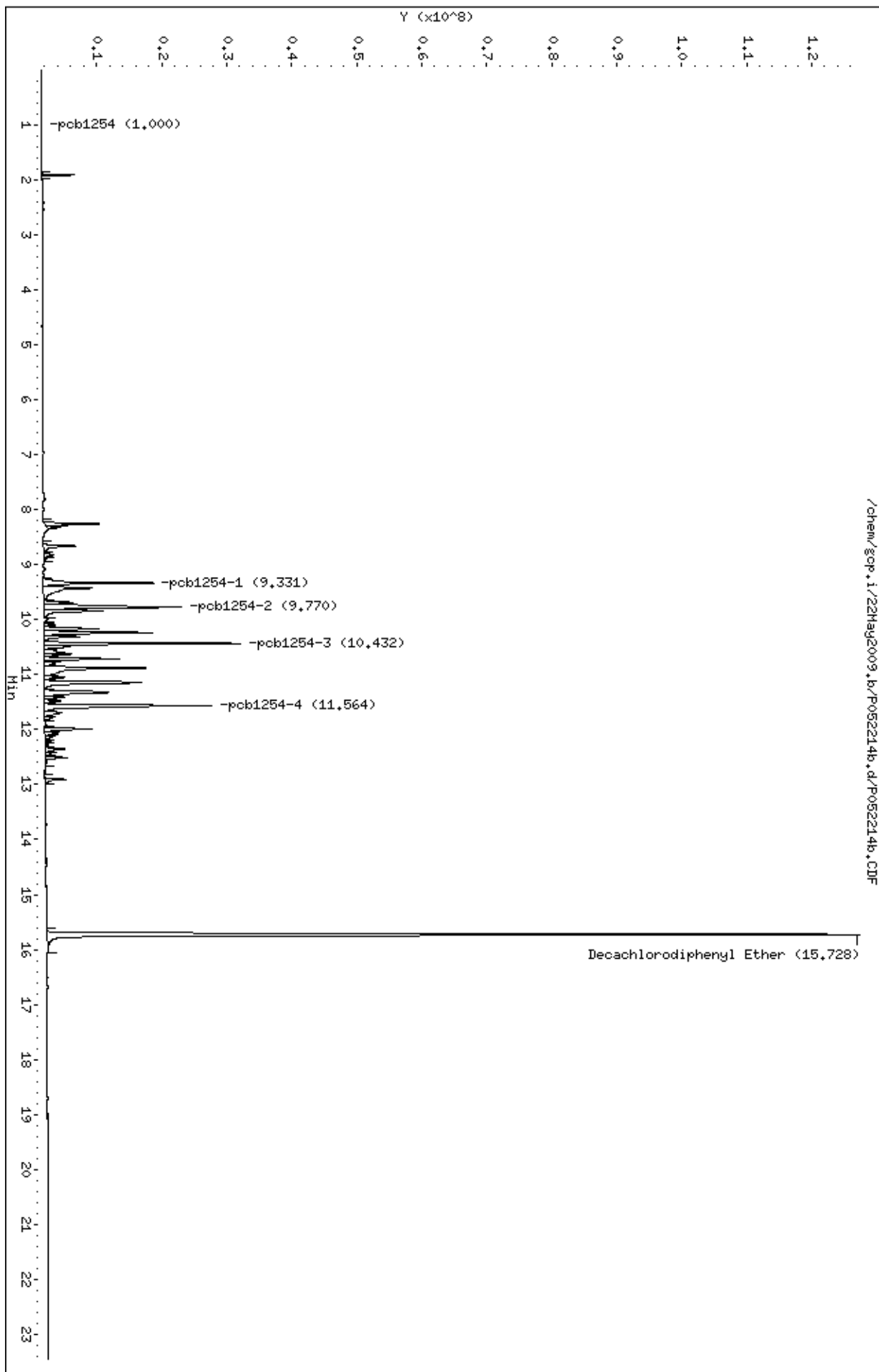
Sample Info: 1685-121-5.0 PCB 1254

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

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



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052213b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1248

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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

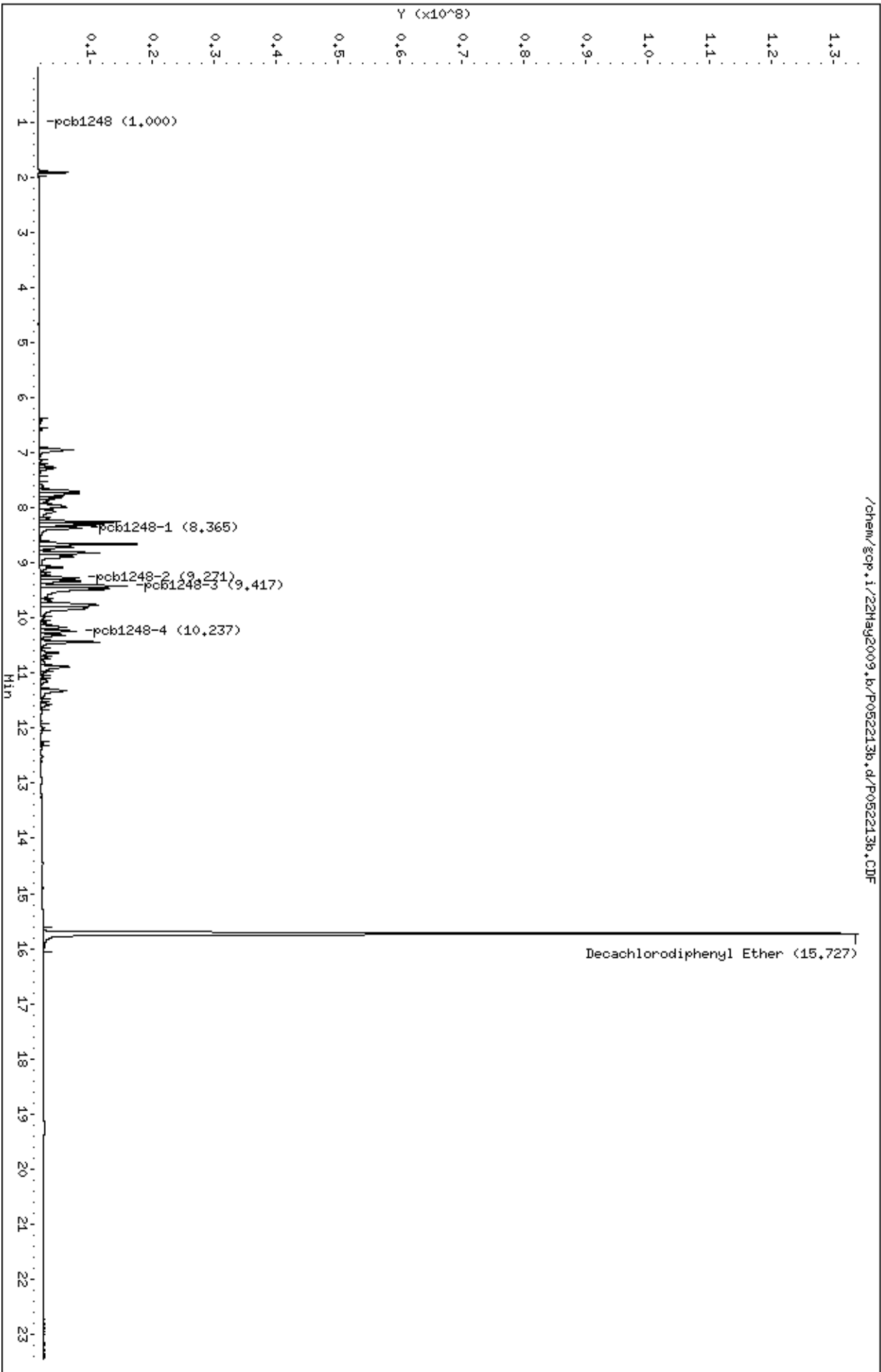
Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
M 18 pcb1232					637480447	5.00000
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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052212b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1232

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/P052212b.d

Date : 22-MAY-2009 23:06

Client ID: PCB 1232

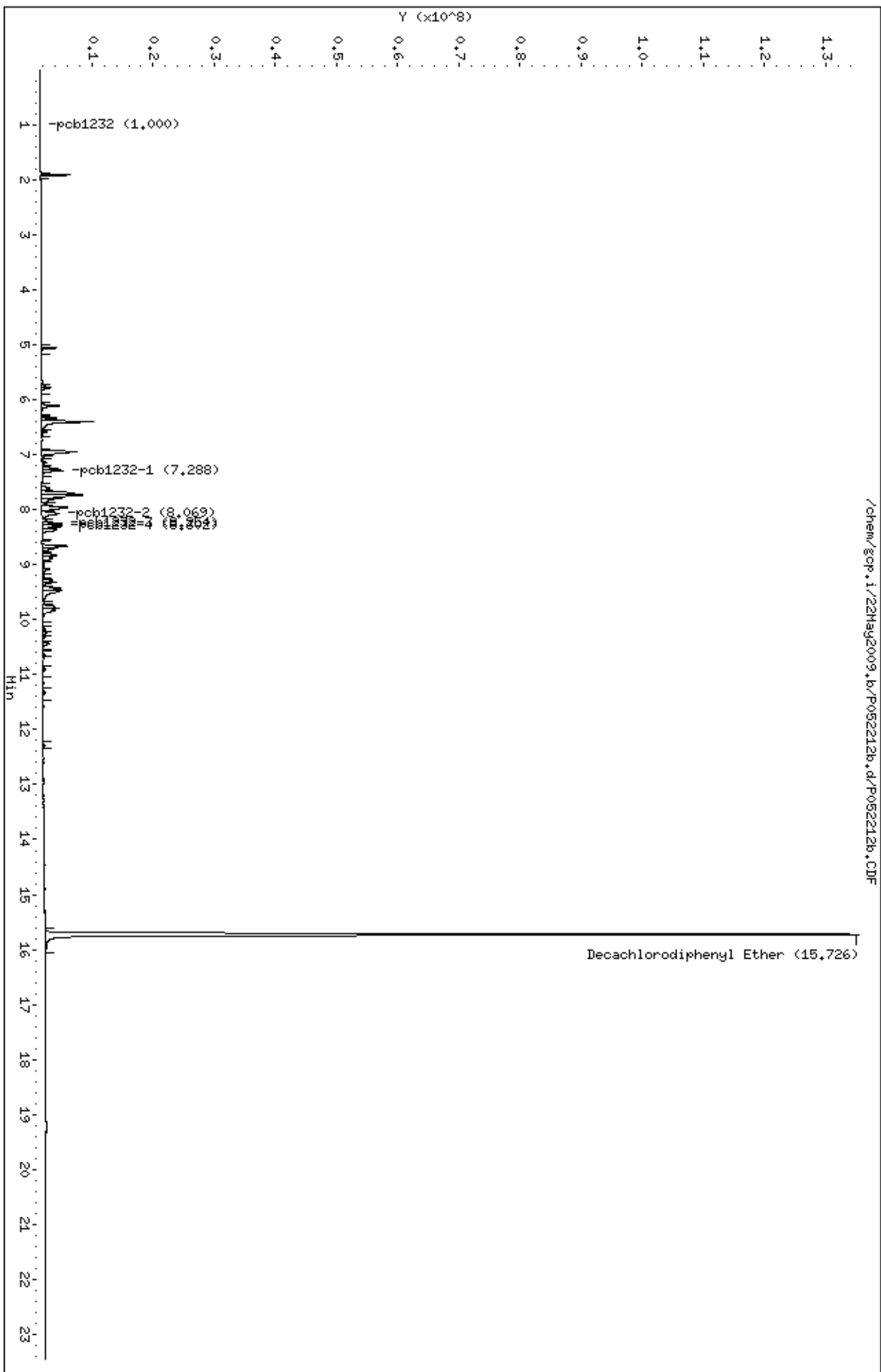
Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: m

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

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
M 13 pcb1221					947323288	5.00000
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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052211b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1221

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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

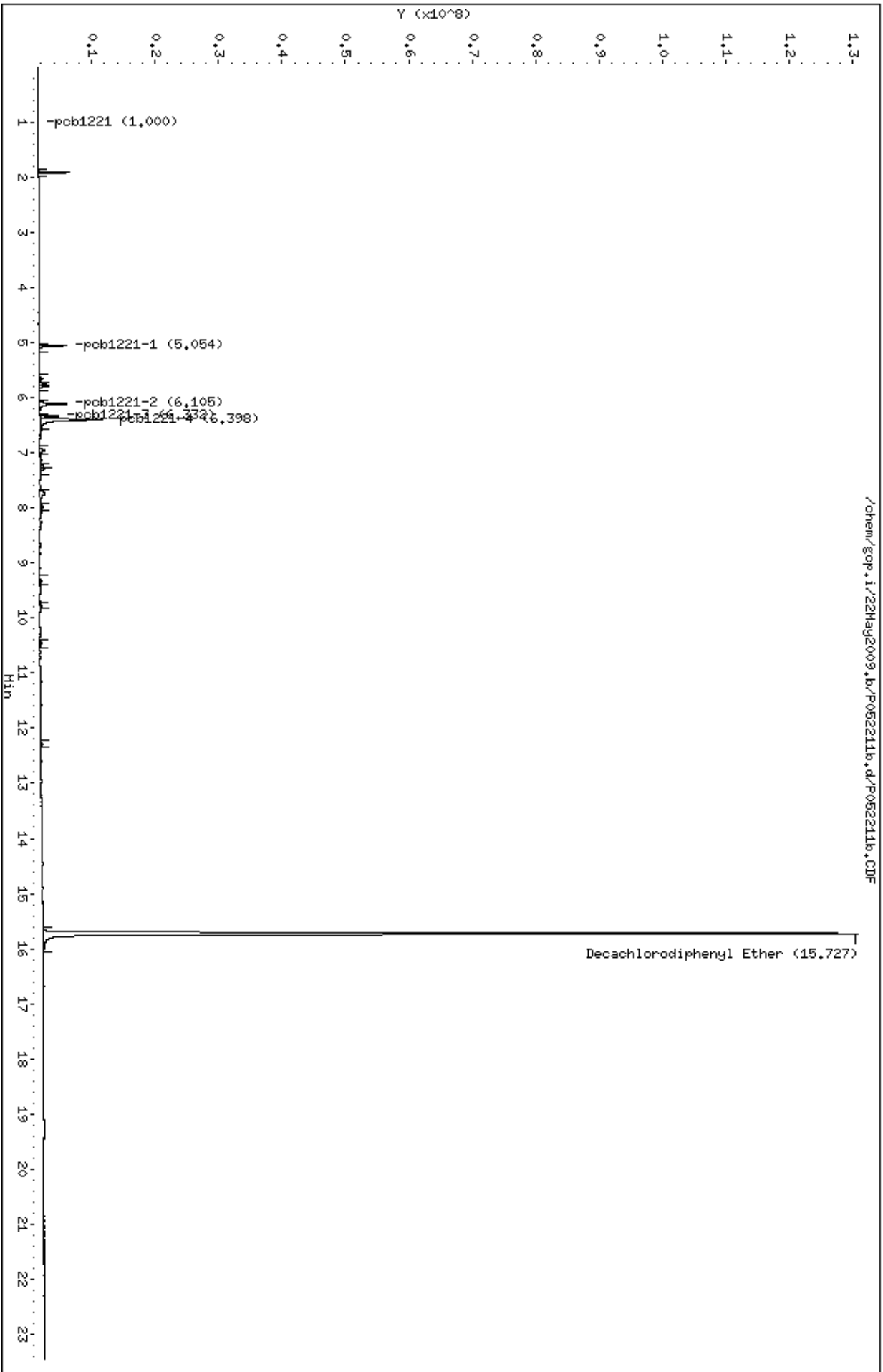
Page 1

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00





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

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP	RT	REL	RT	RESPONSE
=====	==	=====	=====	=====	=====	=====
\$ 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	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052205b.d

Calibration Time: 23:59

Lab Smp Id: 1685-137-5.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

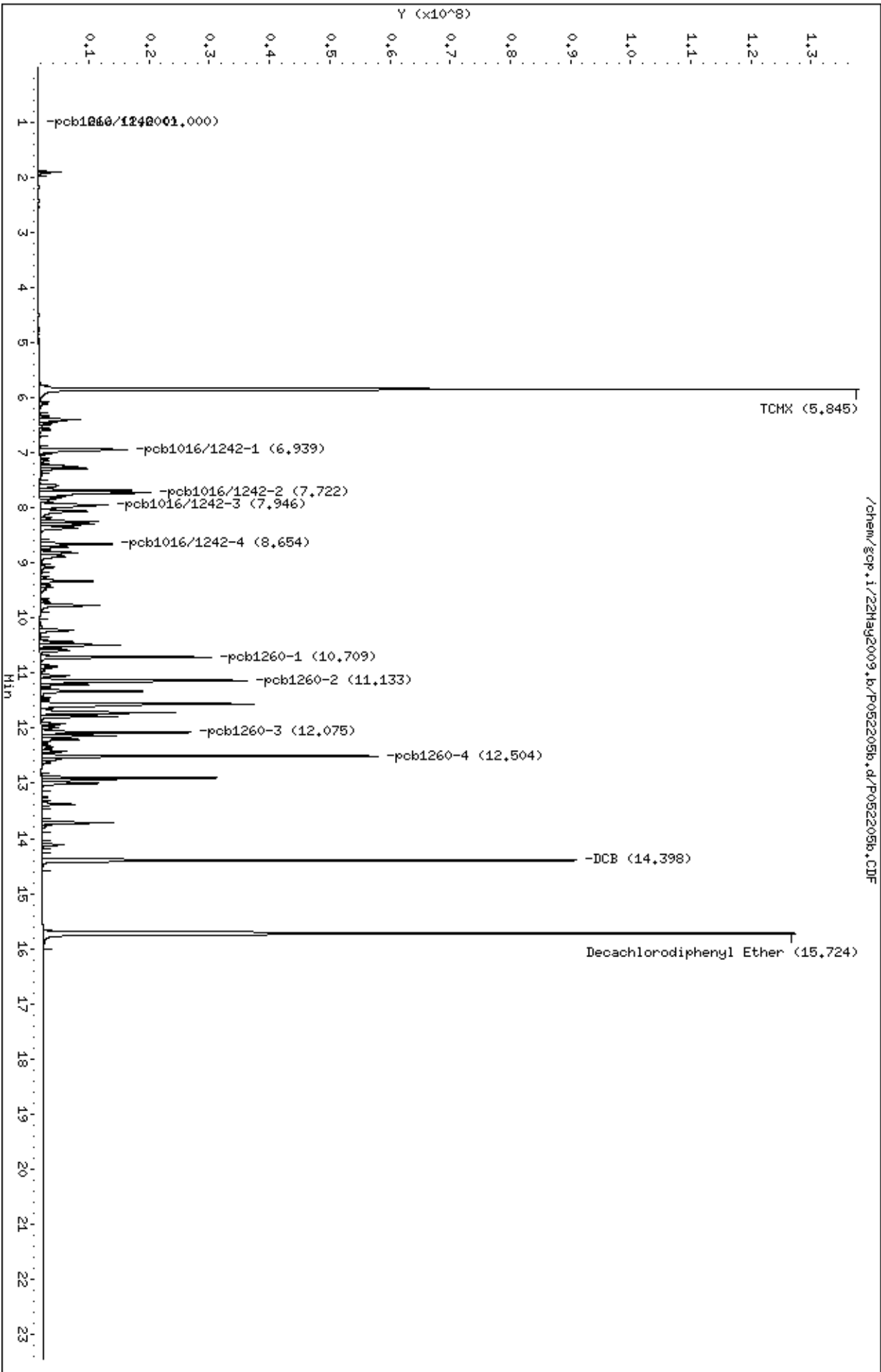
Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00





Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052206b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-8.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

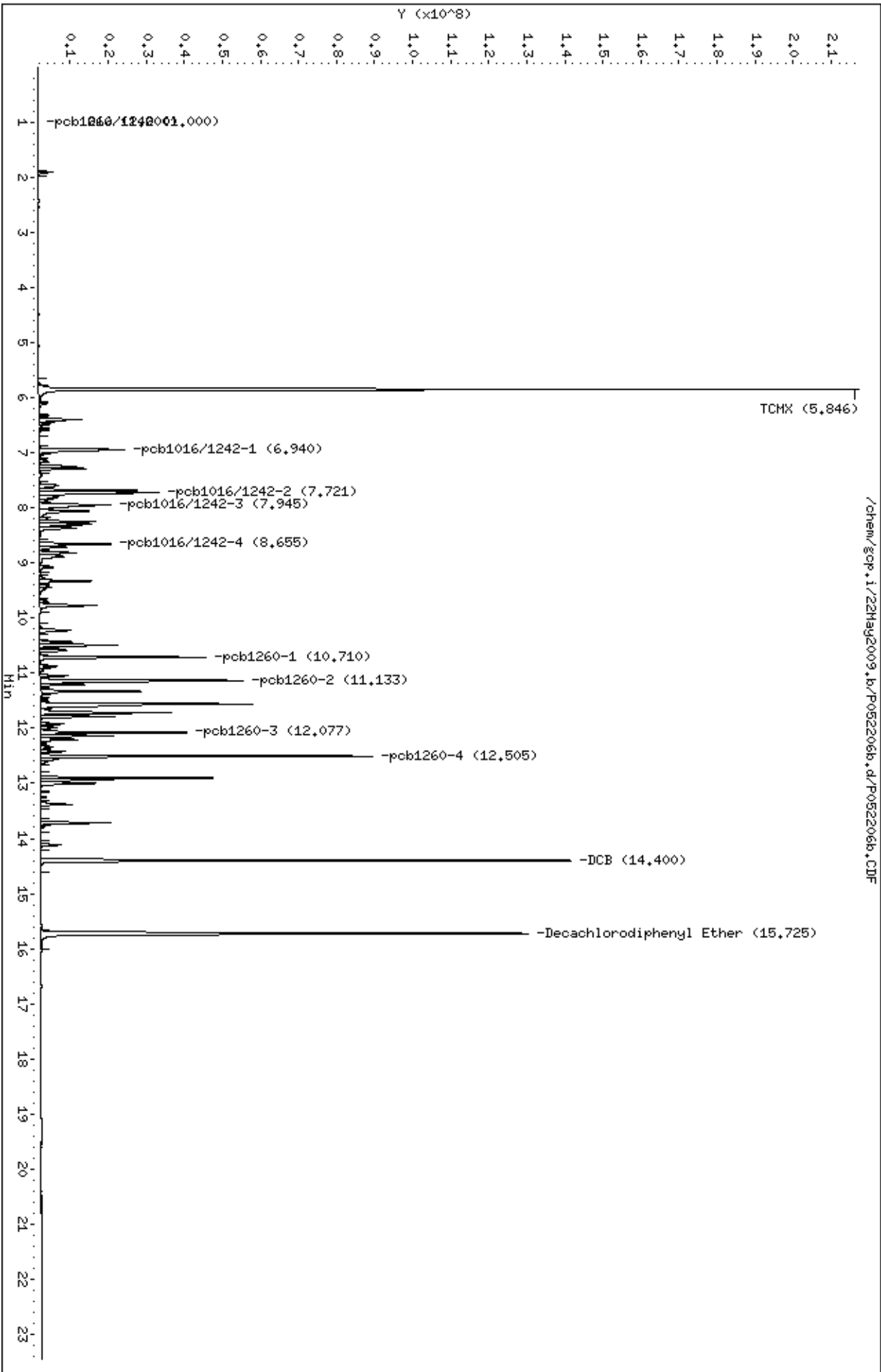
Sample Info: 1685-137-8.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00





Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052207b.d

Calibration Time: 20:26

Lab Smp Id:

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/P052207b.d

Date : 22-May-2009 20:53

Client ID:

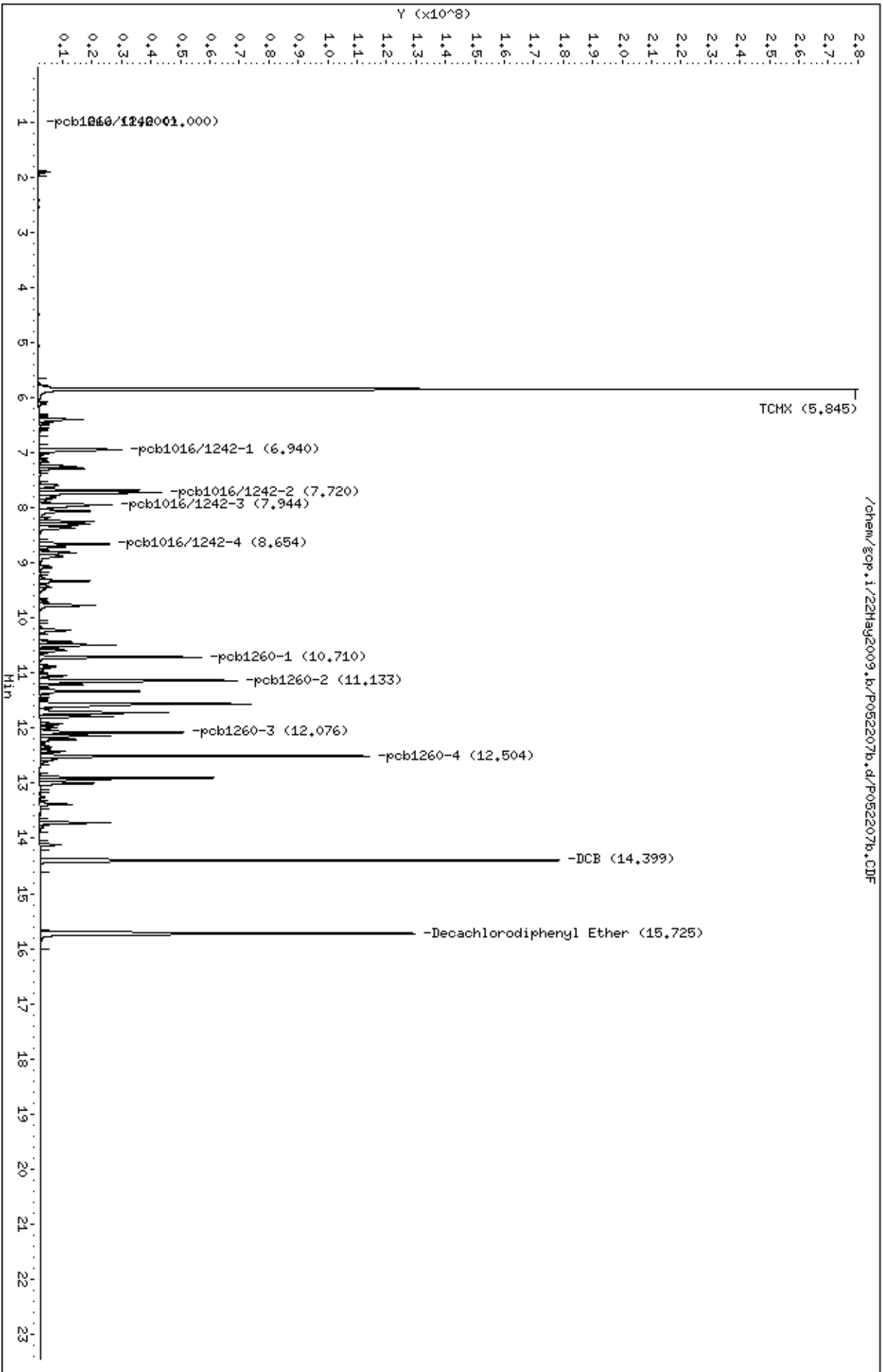
Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00





Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052208b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-12

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

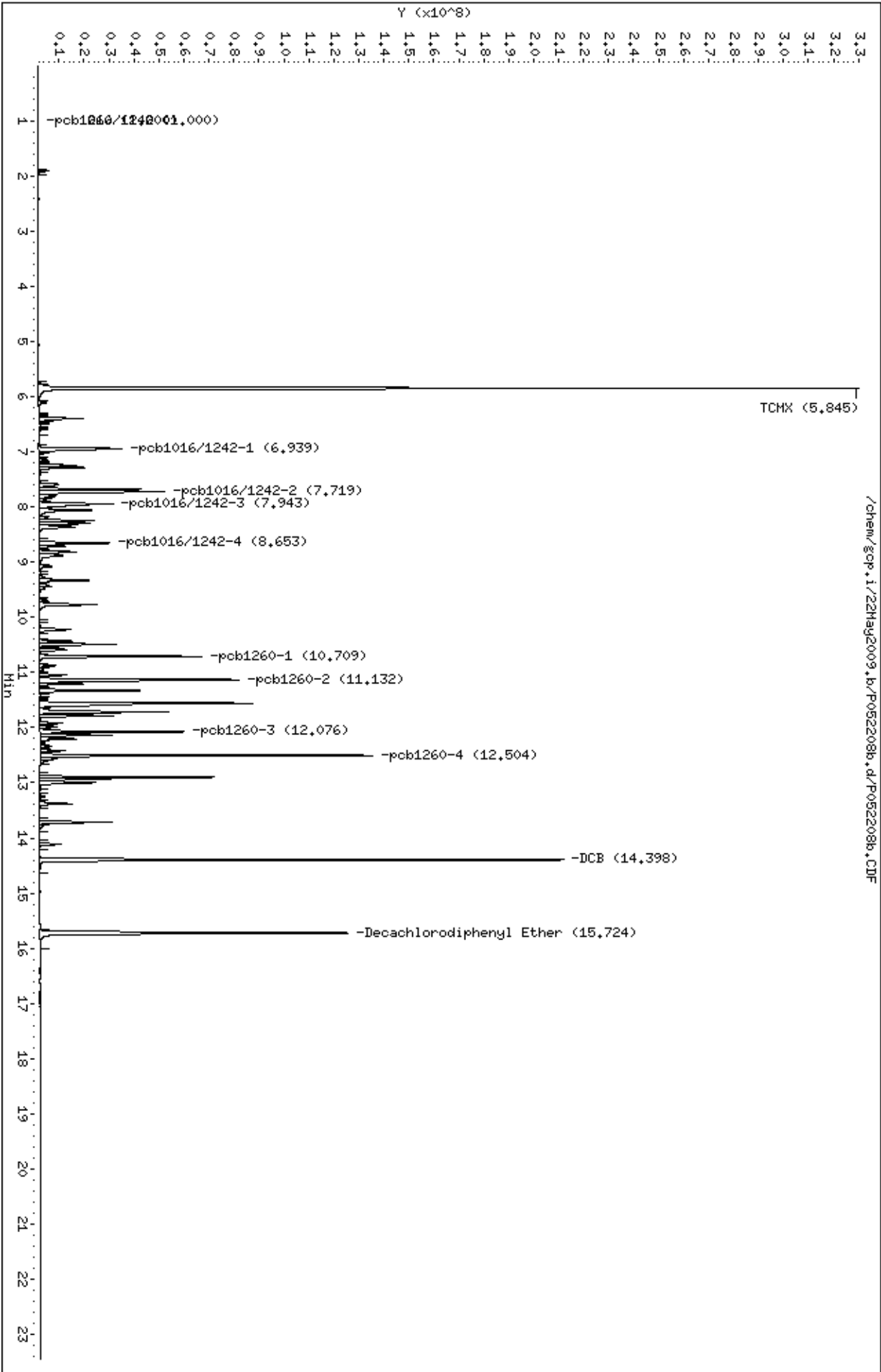
Sample Info: 1685-137-12

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



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

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

Cal Date : 22-MAY-2009 21:46

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Processing Host: eeyore

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P052209b.d

Calibration Sample, Level: 7

Compound Sublist: CCV.sub

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052209b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-15

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

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

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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:

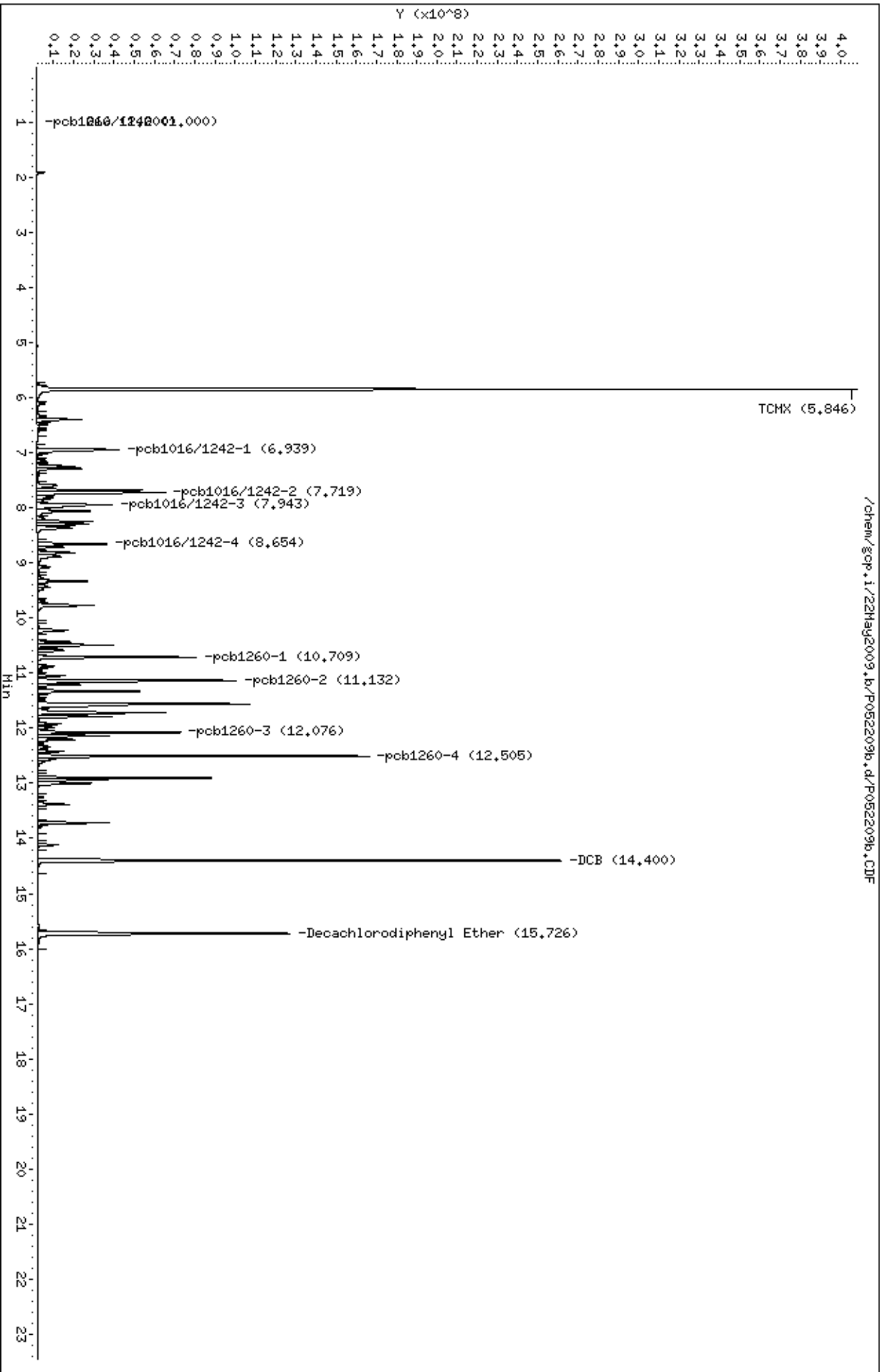
Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 07-JUL-2009 20:22

Lab File ID: P070703.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/07Jul2009.b/p09p0522.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
\$ 2 TCMX	1.55926	1.64206	0.010	-5.31023	15.00000	Averaged
M 3 pcb1016/1242	0.22650	0.21702	0.010	4.18808	15.00000	Averaged
4 pcb1016/1242-1	0.03648	0.03796	0.010	-4.06668	15.00000	Averaged
5 pcb1016/1242-2	0.09165	0.08691	0.010	5.16851	15.00000	Averaged
6 pcb1016/1242-3	0.05699	0.05133	0.010	9.93216	15.00000	Averaged
7 pcb1016/1242-4	0.04139	0.04081	0.010	1.38296	15.00000	Averaged
M 8 pcb1260	0.36669	0.34921	0.010	4.76518	15.00000	Averaged
9 pcb1260-1	0.07592	0.07351	0.010	3.17413	15.00000	Averaged
10 pcb1260-2	0.09265	0.08940	0.010	3.51187	15.00000	Averaged
11 pcb1260-3	0.06766	0.06317	0.010	6.63580	15.00000	Averaged
12 pcb1260-4	0.13045	0.12313	0.010	5.61110	15.00000	Averaged
\$ 38 DCB	1.04743	0.98976	0.010	5.50506	15.00000	Averaged
_____	_____	_____	_____	_____	_____	_____



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/07Jul2009.b/P070703.d

Lab Smp Id: 1685-137A-5 pcbClient Smp ID: CCV

Inj Date : 07-JUL-2009 20:22

Operator : LZInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/07Jul2009.b/p09p0522.m

Meth Date : 07-Jul-2009 13:56 lzhangQuant Type: ISTD

Cal Date : 22-MAY-2009 19:06Cal File: P052203.d

Als bottle: 1Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP GenieCompound 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				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
\$ 2	TCMX	6.010	6.010	(0.352)	14392517484	1.00000
M 3	pcb1016/1242				9510735082	5.00000
4	pcb1016/1242-1	7.419	7.419	(0.434)	1663718551	5.00000
5	pcb1016/1242-2	8.216	8.216	(0.481)	3808762746	5.00000
6	pcb1016/1242-3	8.452	8.452	(0.495)	2249601569	5.00000
7	pcb1016/1242-4	9.286	9.286	(0.544)	1788652216	5.00000
M 8	pcb1260				15304111870	5.00000
9	pcb1260-1	11.350	11.350	(0.665)	3221755162	5.00000
10	pcb1260-2	11.657	11.657	(0.683)	3917804558	5.00000
11	pcb1260-3	12.730	12.730	(0.745)	2768550229	5.00000
12	pcb1260-4	13.067	13.067	(0.765)	5396001922	5.00000
\$ 38	DCB	15.404	15.404	(0.902)	8675207043	1.00000
* 39	Decachlorodiphenyl Ether	17.076	17.076	(1.000)	17529836943	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070703.d

Calibration Time: 20:22

Lab Smp Id: 1685-137A-5 pcb

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17529836943	8764918472	35059673887	17529836943	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 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/07Jul2009.b/P070703.d

Date : 07-JUL-2009 20:22

Client ID: CCV

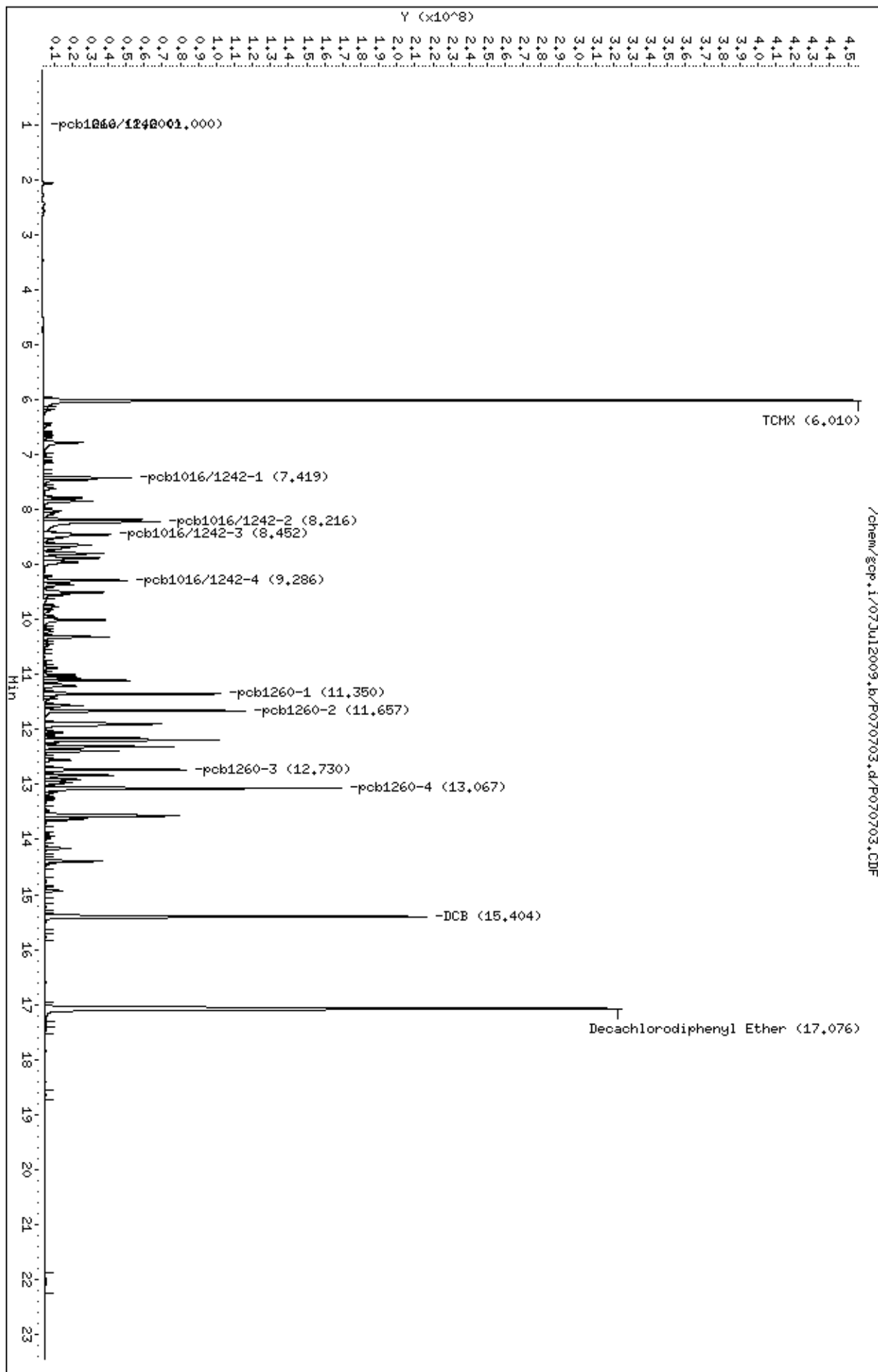
Sample Info:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

Column phase:



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 07-JUL-2009 20:22

Lab File ID: P070703b.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/07Jul2009.b/p09p0522.m/p09b0522.m

				MIN		MAX	
COMPOUND		RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====		=====	=====	=====	=====	=====	=====
\$	2 TCMX	1.39223	1.38976	0.010	0.17732	15.00000	Averaged
M	3 pcb1016/1242	0.19014	0.19019	0.010	-0.02694	15.00000	Averaged
	4 pcb1016/1242-1	0.04901	0.04920	0.010	-0.39354	15.00000	Averaged
	5 pcb1016/1242-2	0.06266	0.06315	0.010	-0.77730	15.00000	Averaged
	6 pcb1016/1242-3	0.04532	0.04491	0.010	0.91029	15.00000	Averaged
	7 pcb1016/1242-4	0.03315	0.03294	0.010	0.65187	15.00000	Averaged
M	8 pcb1260	0.35151	0.33914	0.010	3.51831	15.00000	Averaged
	9 pcb1260-1	0.06846	0.06647	0.010	2.89826	15.00000	Averaged
	10 pcb1260-2	0.10395	0.10158	0.010	2.27733	15.00000	Averaged
	11 pcb1260-3	0.05717	0.05415	0.010	5.28399	15.00000	Averaged
	12 pcb1260-4	0.12193	0.11694	0.010	4.09652	15.00000	Averaged
\$	38 DCB	1.08460	1.00506	0.010	7.33326	15.00000	Averaged

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/07Jul2009.b/P070703b.d

Lab Smp Id: 1685-137A-5 pcbClient Smp ID: CCV

Inj Date : 07-JUL-2009 20:22

Operator : LZInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Meth Date : 07-Jul-2009 13:56 lzhangQuant Type: ISTD

Cal Date : 22-MAY-2009 23:59Cal File: P052214b.d

Als bottle: 1Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP GenieCompound 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	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.829	5.829	(0.371)	5547902021	1.00000	0.998
M 3 pcb1016/1242				3796218192	5.00000	5.00
4 pcb1016/1242-1	6.921	6.921	(0.441)	982035073	5.00000	5.02
5 pcb1016/1242-2	7.701	7.701	(0.491)	1260371975	5.00000	5.04
6 pcb1016/1242-3	7.923	7.923	(0.505)	896383392	5.00000	4.95
7 pcb1016/1242-4	8.632	8.632	(0.550)	657427752	5.00000	4.97
M 8 pcb1260				6769271793	5.00000	4.82
9 pcb1260-1	10.691	10.691	(0.681)	1326813238	5.00000	4.86
10 pcb1260-2	11.114	11.114	(0.708)	2027574108	5.00000	4.89
11 pcb1260-3	12.058	12.058	(0.768)	1080804639	5.00000	4.74
12 pcb1260-4	12.487	12.487	(0.795)	2334079809	5.00000	4.80
\$ 38 DCB	14.379	14.379	(0.916)	4012168352	1.00000	0.927
* 39 Decachlorodiphenyl Ether	15.699	15.699	(1.000)	7983945557	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070703b.d

Calibration Time: 20:22

Lab Smp Id: 1685-137A-5 pcb

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	7983945557	3991972778	15967891114	7983945557	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Data File: /chem/gcp.i/07Jul2009.b/P070703b.d

Date : 07-JUL-2009 20:22

Client ID: CCV

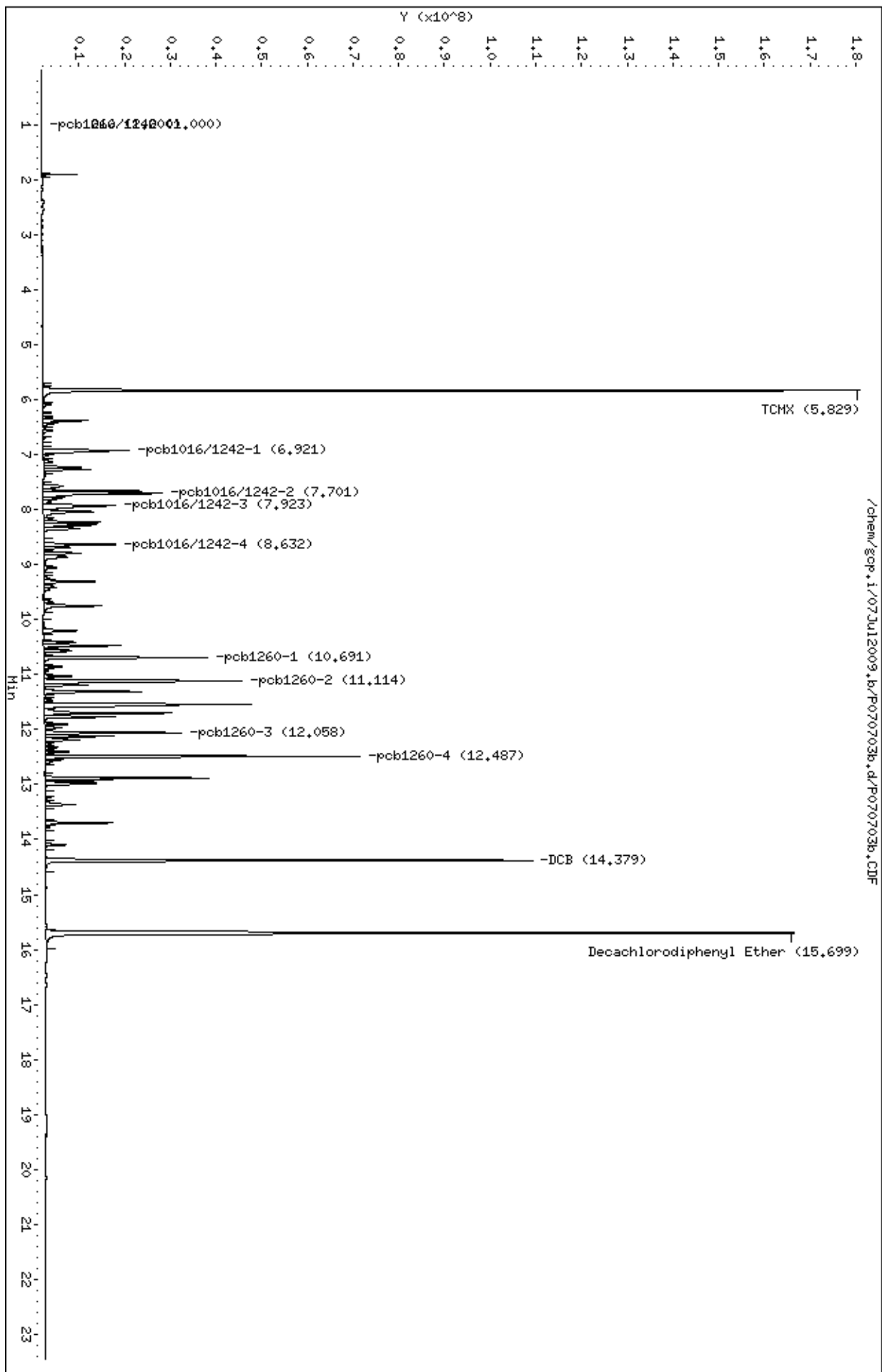
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 07-JUL-2009 20:49

Lab File ID: P070704.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-0.6pest

Quant Type: ISTD

Method: /chem/gcp.i/07Jul2009.b/p0910519.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF0.600	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
\$ 2 TCMX	1.93689	1.97143	0.010	-1.78353	15.00000	Averaged
8 a-BHC	2.78691	2.97616	0.010	-6.79085	15.00000	Averaged
9 g-BHC	2.59350	2.74693	0.010	-5.91601	15.00000	Averaged
10 b-BHC	1.06860	1.09774	0.010	-2.72728	15.00000	Averaged
11 d-BHC	2.40790	2.42408	0.010	-0.67192	15.00000	Averaged
12 Heptachlor	2.36193	2.43040	0.010	-2.89869	15.00000	Averaged
13 Aldrin	2.30099	2.40449	0.010	-4.49802	15.00000	Averaged
14 Heptachlor Epoxide	1.98166	2.05683	0.010	-3.79293	15.00000	Averaged
15 g-Chlordane	2.08862	2.15425	0.010	-3.14211	15.00000	Averaged
16 a-Chlordane	1.97230	2.03082	0.010	-2.96693	15.00000	Averaged
17 Endosulfan I	1.77828	1.78222	0.010	-0.22170	15.00000	Averaged
18 DDE	1.89126	1.94713	0.010	-2.95412	15.00000	Averaged
19 Dieldrin	1.94026	1.98586	0.010	-2.35019	15.00000	Averaged
20 Endrin	1.71932	1.73351	0.010	-0.82513	15.00000	Averaged
21 DDD	1.50014	1.55528	0.010	-3.67585	15.00000	Averaged
22 Endosulfan II	1.59040	1.51642	0.010	4.65148	15.00000	Averaged
23 DDT	1.58418	1.52837	0.010	3.52313	15.00000	Averaged
24 Endrin Aldehyde	1.25367	1.26581	0.010	-0.96819	15.00000	Averaged
25 Endosulfan Sulfate	1.40265	1.37518	0.010	1.95894	15.00000	Averaged
26 Methoxychlor	0.58781	0.56946	0.010	3.12205	15.00000	Averaged
27 Endrin Ketone	1.57764	1.58650	0.010	-0.56163	15.00000	Averaged
\$ 28 DCB	1.22197	1.21068	0.010	0.92371	15.00000	Averaged

Average %D / Drift Results.

=====

Calculated Average %D/Drift = 2.76929

Maximun Average %D/Drift = 15.00000

\* Passed Average %D/Drift Test.



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070704.d

Lab Smp Id: 1685-135A-0.6pest

Inj Date : 07-JUL-2009 20:49

Operator : LZ

Smp Info :

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/07Jul2009.b/p0910519.m

Meth Date : 07-Jul-2009 14:26 lzhang

Cal Date : 19-MAY-2009 20:37

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Processing Host: eeyore

Client Smp ID: CCV

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P051912.d

Continuing Calibration Sample

Compound Sublist: pestCCV.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					( ug)	( ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.011	6.011	(0.352)	21606509851	1.20000	1.221
8 a-BHC	6.999	6.999	(0.410)	16309057898	0.60000	0.6407
9 g-BHC	7.611	7.611	(0.446)	15052903559	0.60000	0.6355
10 b-BHC	7.753	7.753	(0.454)	6015512433	0.60000	0.6164
11 d-BHC	8.286	8.286	(0.485)	13283680821	0.60000	0.6040
12 Heptachlor	8.400	8.400	(0.492)	13318311340	0.60000	0.6174
13 Aldrin	9.004	9.004	(0.527)	13176371584	0.60000	0.6270
14 Heptachlor Epoxide	10.015	10.015	(0.587)	11271196812	0.60000	0.6228
15 g-Chlordane	10.330	10.330	(0.605)	11805048702	0.60000	0.6188
16 a-Chlordane	10.570	10.570	(0.619)	11128677951	0.60000	0.6178
17 Endosulfan I	10.667	10.667	(0.625)	9766379457	0.60000	0.6013
18 DDE	10.837	10.837	(0.635)	10670058773	0.60000	0.6177
19 Dieldrin	11.102	11.102	(0.650)	10882296785	0.60000	0.6141
20 Endrin	11.571	11.571	(0.678)	9499449420	0.60000	0.6050
21 DDD	11.728	11.728	(0.687)	8522772634	0.60000	0.6220
22 Endosulfan II	11.888	11.888	(0.696)	8309843217	0.60000	0.5721
23 DDT	12.183	12.183	(0.714)	8375312046	0.60000	0.5789
24 Endrin Aldehyde	12.377	12.377	(0.725)	6936484982	0.60000	0.6058
25 Endosulfan Sulfate	12.768	12.768	(0.748)	7535821194	0.60000	0.5882
26 Methoxychlor	13.136	13.136	(0.769)	31205901376	6.00000	5.813
27 Endrin Ketone	13.506	13.506	(0.791)	8693832903	0.60000	0.6034

Compounds	AMOUNTS					
				CAL-AMT	ON-COL	
	RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	15.404	15.404	(0.902)	13268791943	1.20000	1.189
* 29 Decachlorodiphenyl Ether	17.075	17.075	(1.000)	18266316146	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070704.d

Calibration Time: 20:49

Lab Smp Id: 1685-135A-0.6pest

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	18266316146	9133158073	36532632292	18266316146	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/07Jul2009.b/P070704.d

Date : 07-JUL-2009 20:49

Client ID: CCV

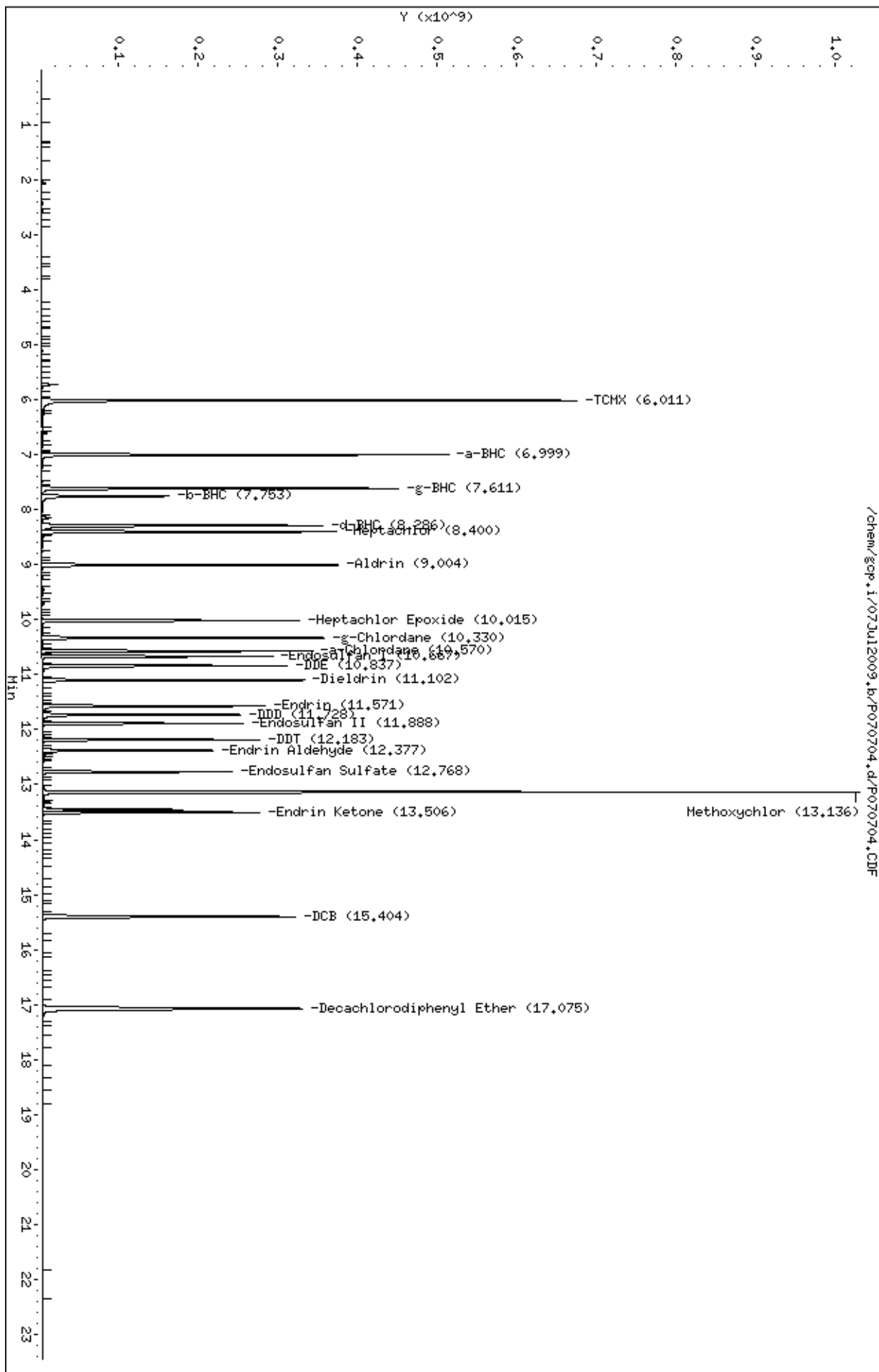
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 07-JUL-2009 20:49

Lab File ID: P070704b.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-0.6pest

Quant Type: ISTD

Method: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF0.600	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
\$ 2 TCMX	1.57624	1.65756	0.010	-5.15889	15.00000	Averaged
8 a-BHC	2.15278	2.35172	0.010	-9.24073	15.00000	Averaged
9 g-BHC	2.01104	2.17131	0.010	-7.96929	15.00000	Averaged
10 b-BHC	0.80831	0.86550	0.010	-7.07530	15.00000	Averaged
11 d-BHC	1.89263	1.91222	0.010	-1.03495	15.00000	Averaged
12 Heptachlor	1.85582	1.89197	0.010	-1.94788	15.00000	Averaged
13 Aldrin	1.79703	1.92476	0.010	-7.10774	15.00000	Averaged
14 Heptachlor Epoxide	1.59111	1.68358	0.010	-5.81211	15.00000	Averaged
15 g-Chlordane	1.68041	1.77915	0.010	-5.87604	15.00000	Averaged
16 a-Chlordane	1.61821	1.70575	0.010	-5.41011	15.00000	Averaged
18 Endosulfan I	1.50833	1.53536	0.010	-1.79186	15.00000	Averaged
17 DDE	1.48879	1.62769	0.010	-9.32993	15.00000	Averaged
19 Dieldrin	1.62685	1.67195	0.010	-2.77249	15.00000	Averaged
20 Endrin	1.44313	1.42915	0.010	0.96923	15.00000	Averaged
21 DDD	1.27947	1.24324	0.010	2.83157	15.00000	Averaged
22 Endosulfan II	1.36886	1.31686	0.010	3.79869	15.00000	Averaged
23 DDT	1.41489	1.38376	0.010	2.19952	15.00000	Averaged
24 Endrin Aldehyde	1.14935	1.13766	0.010	1.01696	15.00000	Averaged
26 Endosulfan Sulfate	1.26084	1.21532	0.010	3.61028	15.00000	Averaged
25 Methoxychlor	0.63055	0.55157	0.010	12.52529	15.00000	Averaged
27 Endrin Ketone	1.57006	1.53959	0.010	1.94066	15.00000	Averaged
\$ 28 DCB	1.25882	1.24434	0.010	1.14980	15.00000	Averaged

Average %D / Drift Results.	
=====	
Calculated Average %D/Drift =	4.57133
Maximun Average %D/Drift =	15.00000
* Passed Average %D/Drift Test.	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070704b.d

Lab Smp Id: 1685-135A-0.6pestClient Smp ID: CCV

Inj Date : 07-JUL-2009 20:49

Operator : LZInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Back column, Rtx-CLPesticides

Method : /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD

Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d

Als bottle: 1Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP GenieCompound Sublist: pestCCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

				AMOUNTS		
				CAL-AMT	ON-COL	
				( ug)	( ug)	
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.830	5.830	(0.371)	8030326638	1.20000	1.262
8 a-BHC	6.703	6.703	(0.427)	5696653024	0.60000	0.6554
9 g-BHC	7.225	7.225	(0.460)	5259639675	0.60000	0.6478
10 b-BHC	7.367	7.367	(0.469)	2096534421	0.60000	0.6424
11 d-BHC	7.681	7.681	(0.489)	4632033539	0.60000	0.6062
12 Heptachlor	8.044	8.044	(0.512)	4582998694	0.60000	0.6117
13 Aldrin	8.591	8.591	(0.547)	4662409070	0.60000	0.6426
14 Heptachlor Epoxide	9.674	9.674	(0.616)	4078205344	0.60000	0.6349
15 g-Chlordane	9.884	9.884	(0.630)	4309703392	0.60000	0.6352
16 a-Chlordane	10.105	10.105	(0.644)	4131908233	0.60000	0.6325
18 Endosulfan I	10.336	10.336	(0.658)	3719164589	0.60000	0.6108
17 DDE	10.221	10.221	(0.651)	3942822586	0.60000	0.6560
19 Dieldrin	10.718	10.718	(0.683)	4050028378	0.60000	0.6166
20 Endrin	11.082	11.082	(0.706)	3461877830	0.60000	0.5942
21 DDD	11.164	11.164	(0.711)	3011558793	0.60000	0.5830
22 Endosulfan II	11.422	11.422	(0.727)	3189881049	0.60000	0.5772
23 DDT	11.579	11.579	(0.738)	3351946151	0.60000	0.5868
24 Endrin Aldehyde	12.032	12.032	(0.766)	2755801498	0.60000	0.5939
26 Endosulfan Sulfate	12.645	12.645	(0.805)	2943921733	0.60000	0.5783
25 Methoxychlor	12.261	12.261	(0.781)	13360968175	6.00000	5.248
27 Endrin Ketone	13.033	13.033	(0.830)	3729400128	0.60000	0.5884

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	14.381	14.381	(0.916)	6028446016	1.20000	1.186
* 29 Decachlorodiphenyl Ether	15.700	15.700	(1.000)	8074460281	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070704b.d

Calibration Time: 20:49

Lab Smp Id: 1685-135A-0.6pest

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8074460281	4037230141	16148920563	8074460281	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/07Jul2009.b/P070704b.d

Date : 07-JUL-2009 20:49

Client ID: CCV

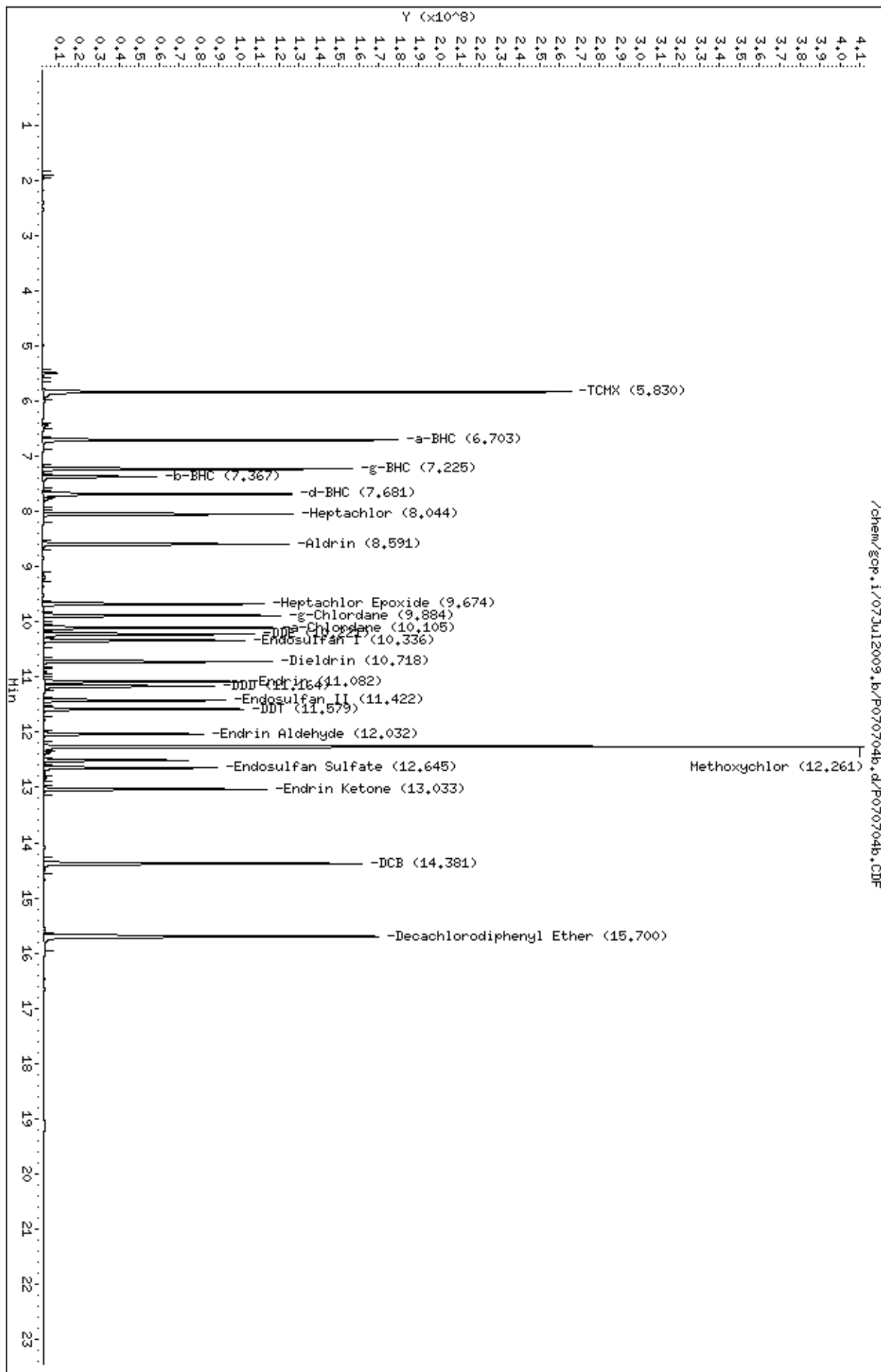
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 07Jul2009

Lab Smp Id: 1685-137A-5pcbClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type: VOALevel: LOW

Data Type: GC DATAOperator: LZ

Misc Info: None

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) uG	Q
9999-9999-098---	pcb1016/1242_____	4.76	
-----	pcb1016/1242-1_____	5.11	
-----	pcb1016/1242-2_____	4.77	
-----	pcb1016/1242-3_____	4.50	
-----	pcb1016/1242-4_____	4.79	
11096-82-5-----	pcb1260_____	4.58	
-----	pcb1260-1_____	4.64	
-----	pcb1260-2_____	4.60	
-----	pcb1260-3_____	4.51	
-----	pcb1260-4_____	4.56	
=====		=====	=====
877-09-8-----	TCMX_____	1.04	
2051-24-3-----	DCB_____	0.931	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/07Jul2009.b/P070714.d

Lab Smp Id: 1685-137A-5pcbClient Smp ID: CCV

Inj Date : 08-JUL-2009 01:38

Operator : LZInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/07Jul2009.b/p09p0522.m

Meth Date : 07-Jul-2009 13:56 lzhangQuant Type: ISTD

Cal Date : 22-MAY-2009 19:06Cal File: P052203.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP GenieCompound 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

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.022	6.010	(0.352)	16148916035	1.04263	1.04
M 3 pcb1016/1242					10715461175	4.76254	4.76
4 pcb1016/1242-1		7.433	7.419	(0.435)	1850961645	5.10800	5.11
5 pcb1016/1242-2		8.231	8.216	(0.482)	4346661543	4.77470	4.77
6 pcb1016/1242-3		8.468	8.452	(0.495)	2548806066	4.50218	4.50
7 pcb1016/1242-4		9.300	9.286	(0.544)	1969031920	4.78962	4.79
M 8 pcb1260					16672963353	4.57744	4.58
9 pcb1260-1		11.360	11.350	(0.665)	3497801032	4.63784	4.64
10 pcb1260-2		11.669	11.657	(0.683)	4236273822	4.60296	4.60
11 pcb1260-3		12.740	12.730	(0.745)	3030139284	4.50830	4.51
12 pcb1260-4		13.076	13.067	(0.765)	5908749215	4.56002	4.56
\$ 38 DCB		15.415	15.404	(0.902)	9684965843	0.93085	0.931
* 39 Decachlorodiphenyl Ether		17.090	17.076	(1.000)	19866711266	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070714.d

Calibration Time: 20:22

Lab Smp Id: 1685-137A-5pcb

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17529836943	8764918472	35059673887	19866711266	13.33
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.08	16.58	17.58	17.09	0.08
-----	-----	-----	-----	-----	-----

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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2009  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 1685-137A-5pcb Client Smp ID: CCV  
Level: LOW Operator: LZ  
Data Type: GC DATA SampleType: LCS  
SpikeList File: CCV10.spk Quant Type: ISTD  
Sublist File: CCV.sub  
Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m  
Misc Info: None

SPIKE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	1.00	1.04	104.26	85-115
M	3 pcb1016/1242	5.00	4.76	95.25	85-115
	4 pcb1016/1242-1	5.00	5.11	102.16	85-115
	5 pcb1016/1242-2	5.00	4.77	95.49	85-115
	6 pcb1016/1242-3	5.00	4.50	90.04	85-115
	7 pcb1016/1242-4	5.00	4.79	95.79	85-115
M	8 pcb1260	5.00	4.58	91.55	85-115
	9 pcb1260-1	5.00	4.64	92.76	85-115
	10 pcb1260-2	5.00	4.60	92.06	85-115
	11 pcb1260-3	5.00	4.51	90.17	85-115
	12 pcb1260-4	5.00	4.56	91.20	85-115
\$	38 DCB	1.00	0.931	93.08	85-115

SURROGATE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	0.600	1.04	104.26	60-120
\$	38 DCB	0.600	0.931	93.08	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070714.d

Date : 08-JUL-2009 01:38

Client ID: CCV

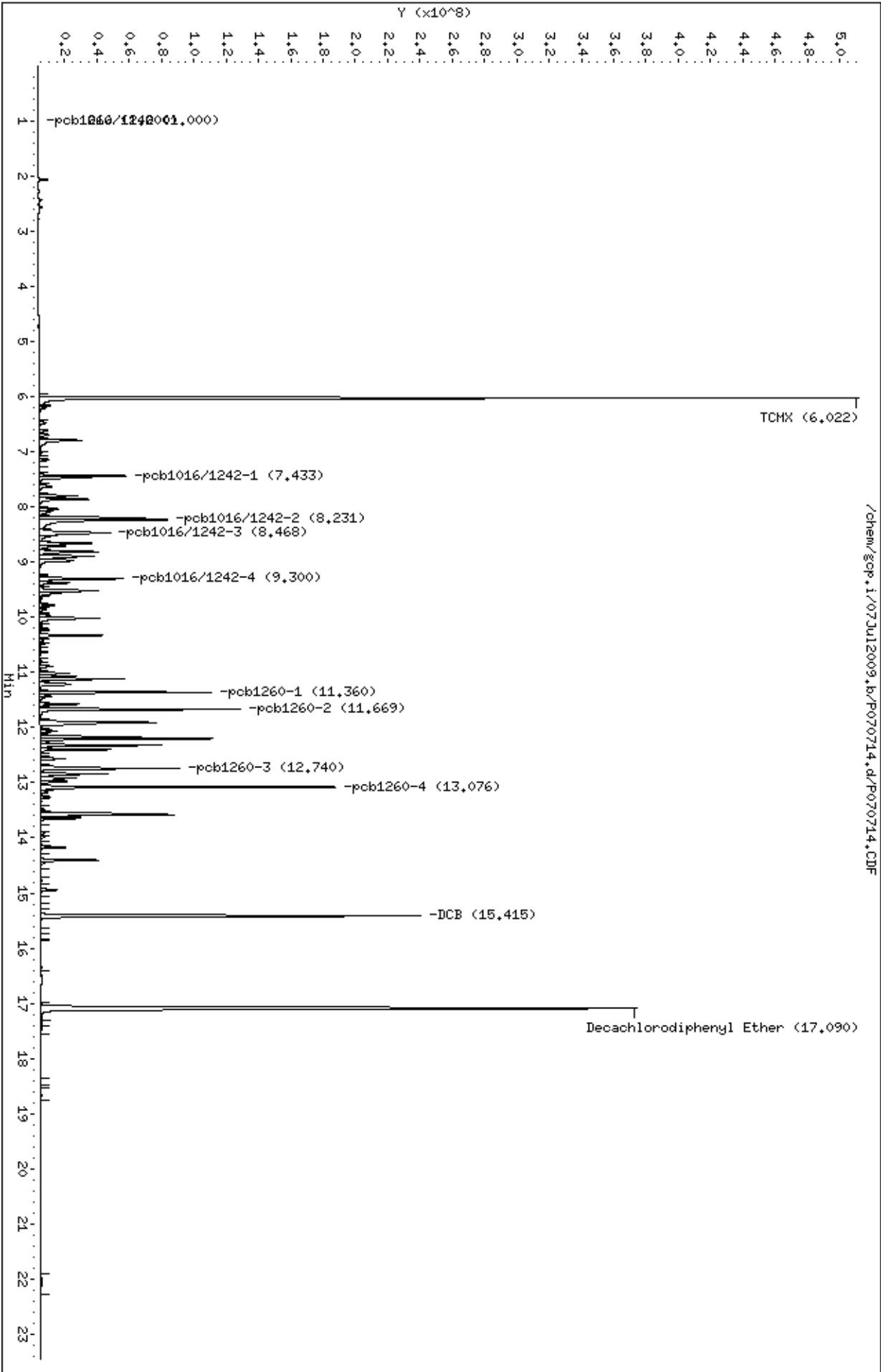
Sample Info:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

Column phase:



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 07Jul2009

Lab Smp Id: 1685-137A-5pcbClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type: VOALevel: LOW

Data Type: GC DATAOperator: LZ

Misc Info: None

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) uG	Q
x9999-9999-098--	pcb1016/1242	4.99	
-----	pcb1016/1242-1	4.94	
-----	pcb1016/1242-2	5.10	
-----	pcb1016/1242-3	4.94	
-----	pcb1016/1242-4	4.92	
x11096-82-5----	pcb1260	4.73	
-----	pcb1260-1	4.76	
-----	pcb1260-2	4.80	
-----	pcb1260-3	4.63	
-----	pcb1260-4	4.70	
=====		=====	=====
x877-09-8-----	TCMX	0.980	
x2051-24-3-----	DCB	0.912	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/07Jul2009.b/P070714b.d

Lab Smp Id: 1685-137A-5pcbClient Smp ID: CCV

Inj Date : 08-JUL-2009 01:38

Operator : LZInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Meth Date : 07-Jul-2009 13:56 lzhangQuant Type: ISTD

Cal Date : 22-MAY-2009 23:59Cal File: P052214b.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP GenieCompound 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

		CONCENTRATIONS				
					ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)
=====		==	=====	=====	=====	( uG)
\$ 2 TCMX		5.826	5.829	(0.371)	5954375846	0.98041
M 3 pcb1016/1242					4139040521	4.99
4 pcb1016/1242-1		6.919	6.921	(0.441)	1057274148	4.94549
5 pcb1016/1242-2		7.698	7.701	(0.490)	1392730493	5.09535
6 pcb1016/1242-3		7.922	7.923	(0.504)	976676413	4.94002
7 pcb1016/1242-4		8.631	8.632	(0.550)	712359464	4.92554
M 8 pcb1260					7251367099	4.72896
9 pcb1260-1		10.692	10.691	(0.681)	1421228088	4.75909
10 pcb1260-2		11.116	11.114	(0.708)	2176310426	4.79935
11 pcb1260-3		12.060	12.058	(0.768)	1155167470	4.63195
12 pcb1260-4		12.489	12.487	(0.795)	2498661114	4.69752
\$ 38 DCB		14.383	14.379	(0.916)	4315950736	0.91221
* 39 Decachlorodiphenyl Ether		15.704	15.699	(1.000)	8724584237	2.00000



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070714b.d

Calibration Time: 20:22

Lab Smp Id: 1685-137A-5pcb

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	7983945557	3991972778	15967891114	8724584237	9.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2009  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 1685-137A-5pcb Client Smp ID: CCV  
Level: LOW Operator: LZ  
Data Type: GC DATA SampleType: LCS  
SpikeList File: CCV10.spk Quant Type: ISTD  
Sublist File: CCV.sub  
Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m  
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	1.00	0.980	98.04	85-115
M 3 pcb1016/1242	5.00	4.99	99.80	85-115
4 pcb1016/1242-1	5.00	4.94	98.91	85-115
5 pcb1016/1242-2	5.00	5.10	101.91	85-115
6 pcb1016/1242-3	5.00	4.94	98.80	85-115
7 pcb1016/1242-4	5.00	4.92	98.51	85-115
M 8 pcb1260	5.00	4.73	94.58	85-115
9 pcb1260-1	5.00	4.76	95.18	85-115
10 pcb1260-2	5.00	4.80	95.99	85-115
11 pcb1260-3	5.00	4.63	92.64	85-115
12 pcb1260-4	5.00	4.70	93.95	85-115
\$ 38 DCB	1.00	0.912	91.22	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.980	98.04	60-120
\$ 38 DCB	0.600	0.912	91.22	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070714b.d

Date : 08-JUL-2009 01:38

Client ID: CCV

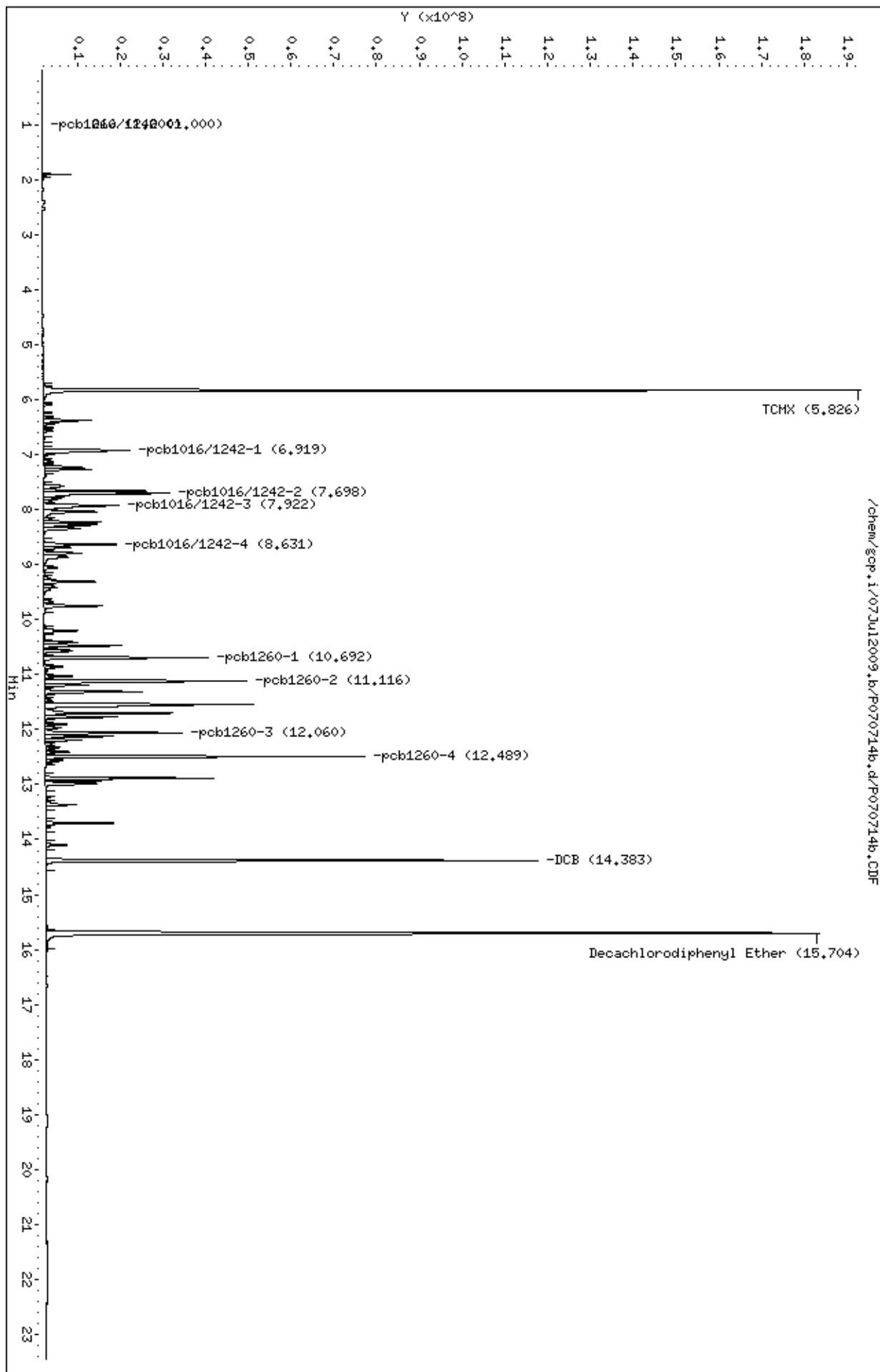
Sample Info:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

Column phase:



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 07Jul2009

Lab Smp Id: 1685-135A-0.6pestClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type:Level: LOW

Data Type: GC DATAOperator: LZ

Misc Info: None

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/KG) ug	Q
319-84-6-----a-BHC_____		0.6379	E
58-89-9-----g-BHC_____		0.6328	
319-85-7-----b-BHC_____		0.6118	E
319-86-8-----d-BHC_____		0.6218	E
76-44-8-----Heptachlor_____		0.6141	
309-00-2-----Aldrin_____		0.6155	
1024-57-3-----Heptachlor Epoxide_____		0.6107	E
5103-74-2-----g-Chlordane_____		0.6031	E
5103-71-9-----a-Chlordane_____		0.6011	E
959-98-8-----Endosulfan I_____		0.5883	E
72-55-9-----DDE_____		0.6032	E
60-57-1-----Dieldrin_____		0.6046	
72-20-8-----Endrin_____		0.6049	
72-54-8-----DDD_____		0.6181	E
33213-65-9-----Endosulfan II_____		0.5610	E
50-29-3-----DDT_____		0.5809	
7421-93-4-----Endrin Aldehyde_____		0.5938	E
1031-07-8-----Endosulfan Sulfate_____		0.5908	E
72-43-5-----Methoxychlor_____		5.939	E
53494-70-5-----Endrin Ketone_____		0.5900	E
=====		=====	=====
877-09-8-----TCMX_____		1.202	
2051-24-3-----DCB_____		1.181	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070715.d

Lab Smp Id: 1685-135A-0.6pest

Inj Date : 08-JUL-2009 02:04

Operator : LZ

Smp Info :

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/07Jul2009.b/p0910519.m

Meth Date : 07-Jul-2009 14:26 lzhang

Cal Date : 19-MAY-2009 20:37

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Processing Host: eeyore

Client Smp ID: CCV

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P051912.d

QC Sample: METHSPIKE

Compound Sublist: pestCCV.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS				
					ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	( ug)
=====		==	=====	=====	=====	=====
\$ 2	TCMX	6.011	6.011	(0.352)	23411243326	1.20199
8	a-BHC	7.000	6.999	(0.410)	17876106982	0.63787
9	g-BHC	7.612	7.611	(0.446)	16502518805	0.63277
10	b-BHC	7.755	7.753	(0.454)	6574117348	0.61179
11	d-BHC	8.289	8.286	(0.485)	15057036458	0.62185
12	Heptachlor	8.401	8.400	(0.492)	14585282788	0.61409
13	Aldrin	9.005	9.004	(0.527)	14242295395	0.61553
14	Heptachlor Epoxide	10.017	10.015	(0.586)	12169459678	0.61069
15	g-Chlordane	10.330	10.330	(0.605)	12666232342	0.60307
16	a-Chlordane	10.570	10.570	(0.619)	11921979392	0.60111
17	Endosulfan I	10.668	10.667	(0.625)	10520479780	0.58833
18	DDE	10.839	10.837	(0.635)	11471908505	0.60321
19	Dieldrin	11.103	11.102	(0.650)	11797240034	0.60465
20	Endrin	11.572	11.571	(0.678)	10458589706	0.60492
21	DDD	11.730	11.728	(0.687)	9324094722	0.61810
22	Endosulfan II	11.889	11.888	(0.696)	8971308975	0.56096
23	DDT	12.184	12.183	(0.713)	9254434447	0.58093
24	Endrin Aldehyde	12.378	12.377	(0.725)	7486047394	0.59382
25	Endosulfan Sulfate	12.769	12.768	(0.748)	8333978554	0.59086
26	Methoxychlor	13.137	13.136	(0.769)	35107776164	5.93944
27	Endrin Ketone	13.508	13.506	(0.791)	9360280838	0.59002

Compounds	CONCENTRATIONS					
				ON-COLUMN		FINAL
	RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	15.406	15.404	(0.902)	14510024738	1.18084	1.181
* 29 Decachlorodiphenyl Ether	17.079	17.075	(1.000)	20111681669	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070715.d

Calibration Time: 20:49

Lab Smp Id: 1685-135A-0.6pest

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	18266316146	9133158073	36532632292	20111681669	10.10
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 1685-135A-0.6pest	Client Smp ID: CCV
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: METHSPIKE
SpikeList File: CCV-1.spk	Quant Type: ISTD
Sublist File: pestCCV.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.200	1.202	100.17	85-115
8 a-BHC	0.6000	0.6379	106.31	85-115
10 b-BHC	0.6000	0.6118	101.97	85-115
9 g-BHC	0.6000	0.6328	105.46	85-115
11 d-BHC	0.6000	0.6218	103.64	85-115
12 Heptachlor	0.6000	0.6141	102.35	85-115
13 Aldrin	0.6000	0.6155	102.59	85-115
14 Heptachlor Epoxide	0.6000	0.6107	101.78	85-115
17 Endosulfan I	0.6000	0.5883	98.05	85-115
18 DDE	0.6000	0.6032	100.53	85-115
19 Dieldrin	0.6000	0.6046	100.77	85-115
20 Endrin	0.6000	0.6049	100.82	85-115
22 Endosulfan II	0.6000	0.5610	93.49	85-115
21 DDD	0.6000	0.6181	103.02	85-115
24 Endrin Aldehyde	0.6000	0.5938	98.97	85-115
25 Endosulfan Sulfate	0.6000	0.5908	98.48	85-115
23 DDT	0.6000	0.5809	96.82	85-115
27 Endrin Ketone	0.6000	0.5900	98.34	85-115
16 a-Chlordane	0.6000	0.6011	100.19	85-115
15 g-Chlordane	0.6000	0.6031	100.51	85-115
26 Methoxychlor	6.000	5.939	98.99	85-115
169 Mirex	0.6000	0.000	*	85-115
\$ 28 DCB	1.200	1.181	98.40	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	1.202	100.17	60-120
\$ 28 DCB	0.6000	1.181	98.40	60-120





Data File: /chem/gcp.i/07Jul2009.b/P070715.d

Date : 08-JUL-2009 02:04

Client ID: CCV

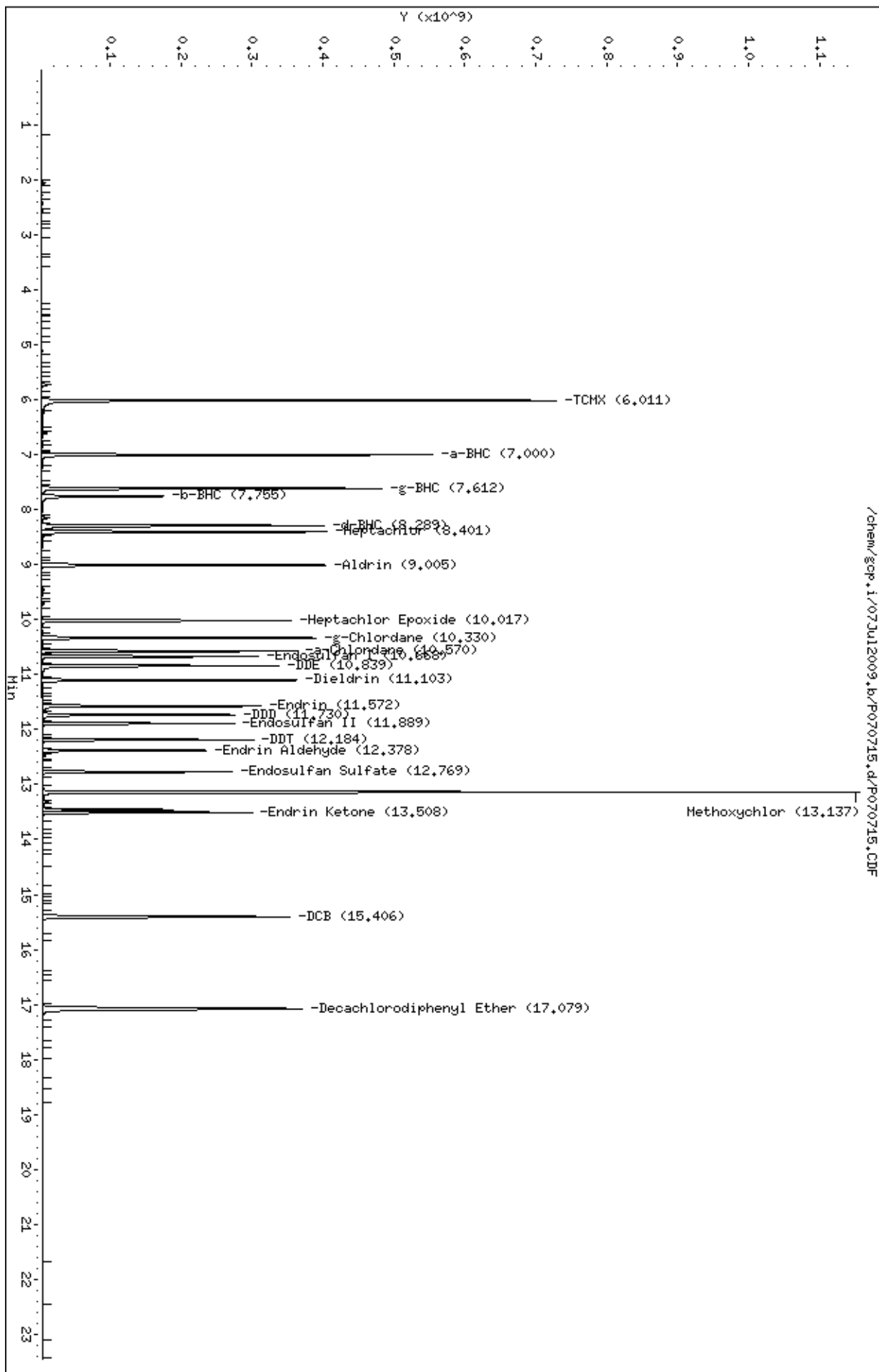
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 07Jul2009

Lab Smp Id: 1685-135A-0.6pestClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type:Level: LOW

Data Type: GC DATAOperator: LZ

Misc Info: None

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/KG) ug	Q
x319-84-6-----a-BHC		0.6512	E
x58-89-9-----g-BHC		0.6443	
x319-85-7-----b-BHC		0.6369	E
x319-86-8-----d-BHC		0.6224	E
x76-44-8-----Heptachlor		0.6207	
x309-00-2-----Aldrin		0.6332	
x1024-57-3-----Heptachlor Epoxide		0.6266	E
x5103-74-2-----g-Chlordane		0.6251	E
x5103-71-9-----a-Chlordane		0.6210	E
x959-98-8-----Endosulfan I		0.6021	E
x72-55-9-----DDE		0.6436	E
x60-57-1-----Dieldrin		0.6178	
x72-20-8-----Endrin		0.6164	
x72-54-8-----DDD		0.6254	E
x33213-65-9-----Endosulfan II		0.5719	E
x50-29-3-----DDT		0.5933	
x7421-93-4-----Endrin Aldehyde		0.5870	E
x1031-07-8-----Endosulfan Sulfate		0.5875	E
x72-43-5-----Methoxychlor		5.503	E
x53494-70-5-----Endrin Ketone		0.5844	E
=====		=====	=====
x877-09-8-----TCMX		1.267	
x2051-24-3-----DCB		1.170	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070715b.d  
Lab Smp Id: 1685-135A-0.6pestClient Smp ID: CCV  
Inj Date : 08-JUL-2009 02:04  
Operator : LZInst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Back column, Rtx-CLPesticides  
Method : /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m  
Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d  
Als bottle: 1QC Sample: METHSPIKE  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: pestCCV.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.831	5.830	(0.371)	8800711168	1.26668	1.267
8 a-BHC	6.704	6.703	(0.427)	6179683648	0.65123	0.6512
9 g-BHC	7.226	7.225	(0.460)	5711715158	0.64434	0.6443
10 b-BHC	7.368	7.367	(0.469)	2269258004	0.63691	0.6369
11 d-BHC	7.682	7.681	(0.489)	5192070089	0.62237	0.6224
12 Heptachlor	8.046	8.044	(0.512)	5077790336	0.62074	0.6207
13 Aldrin	8.592	8.591	(0.547)	5015277600	0.63316	0.6332
14 Heptachlor Epoxide	9.675	9.674	(0.616)	4394463936	0.62658	0.6266
15 g-Chlordane	9.885	9.884	(0.630)	4630137392	0.62510	0.6251
16 a-Chlordane	10.106	10.105	(0.644)	4429425723	0.62099	0.6210
18 Endosulfan I	10.337	10.336	(0.658)	4002977948	0.60208	0.6021
17 DDE	10.223	10.221	(0.651)	4223733225	0.64363	0.6436
19 Dieldrin	10.719	10.718	(0.683)	4429932277	0.61776	0.6178
20 Endrin	11.083	11.082	(0.706)	3920744086	0.61636	0.6164
21 DDD	11.166	11.164	(0.711)	3526870832	0.62536	0.6254
22 Endosulfan II	11.423	11.422	(0.727)	3450523443	0.57187	0.5719
23 DDT	11.581	11.579	(0.737)	3700319607	0.59332	0.5933
24 Endrin Aldehyde	12.033	12.032	(0.766)	2974041504	0.58704	0.5870
26 Endosulfan Sulfate	12.646	12.645	(0.805)	3265247493	0.58752	0.5875
25 Methoxychlor	12.263	12.261	(0.781)	15295028494	5.50301	5.503
27 Endrin Ketone	13.035	13.033	(0.830)	4044487456	0.58441	0.5844

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN	FINAL
					( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	14.381	14.381	(0.916)	6489840051	1.16961	1.170
* 29 Decachlorodiphenyl Ether	15.702	15.700	(1.000)	8815749192	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070715b.d

Calibration Time: 20:49

Lab Smp Id: 1685-135A-0.6pest

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	8074460281	4037230141	16148920563	8815749192	9.18
-----	-----	-----	-----	-----	-----

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 1685-135A-0.6pest	Client Smp ID: CCV
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: METHSPIKE
SpikeList File: CCV-1.spk	Quant Type: ISTD
Sublist File: pestCCV.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.200	1.267	105.56	85-115
8 a-BHC	0.6000	0.6512	108.54	85-115
10 b-BHC	0.6000	0.6369	106.15	85-115
9 g-BHC	0.6000	0.6443	107.39	85-115
11 d-BHC	0.6000	0.6224	103.73	85-115
12 Heptachlor	0.6000	0.6207	103.46	85-115
13 Aldrin	0.6000	0.6332	105.53	85-115
14 Heptachlor Epoxide	0.6000	0.6266	104.43	85-115
18 Endosulfan I	0.6000	0.6021	100.35	85-115
17 DDE	0.6000	0.6436	107.27	85-115
19 Dieldrin	0.6000	0.6178	102.96	85-115
20 Endrin	0.6000	0.6164	102.73	85-115
22 Endosulfan II	0.6000	0.5719	95.31	85-115
21 DDD	0.6000	0.6254	104.23	85-115
24 Endrin Aldehyde	0.6000	0.5870	97.84	85-115
26 Endosulfan Sulfate	0.6000	0.5875	97.92	85-115
23 DDT	0.6000	0.5933	98.89	85-115
27 Endrin Ketone	0.6000	0.5844	97.40	85-115
16 a-Chlordane	0.6000	0.6210	103.50	85-115
15 g-Chlordane	0.6000	0.6251	104.18	85-115
25 Methoxychlor	6.000	5.503	91.72	85-115
168 Mirex	0.6000	0.000	*	85-115
\$ 28 DCB	1.200	1.170	97.47	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	1.267	105.56	60-120
\$ 28 DCB	0.6000	1.170	97.47	60-120





Data File: /chem/gcp.i/07Jul2009.b/P070715b.d

Date : 08-JUL-2009 02:04

Client ID: CCV

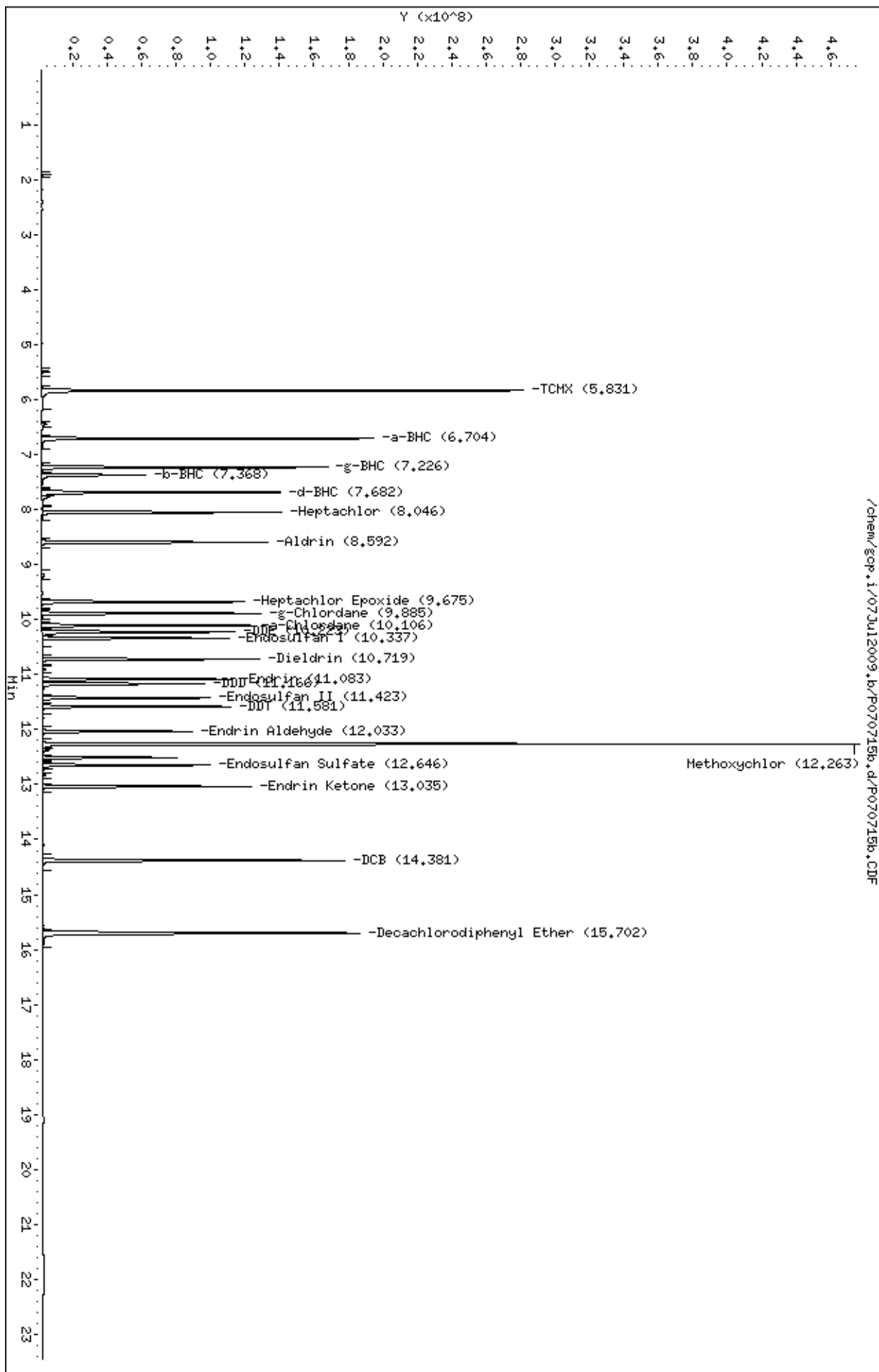
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Client Sample ID: LCS

Lab ID#: 0906709A-06A

**MODIFIED EPA METHOD TO-4A GC/ECD**

<b>File Name:</b>	<b>P070708</b>	<b>Date of Collection: NA</b>
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 7/7/09 03:51 PM</b>
		<b>Date of Extraction: 7/1/09</b>

Compound	%Recovery
Aldrin	93
alpha-BHC	97
beta-BHC	91
delta-BHC	92
gamma-BHC (Lindane)	92
alpha-Chlordane	92
gamma-Chlordane	91
4,4'-DDD	92
4,4'-DDE	88
4,4'-DDT	84
Dieldrin	91
Endosulfan I	84
Endosulfan II	89
Endosulfan Sulfate	88
Endrin	90
Endrin Aldehyde	68
Endrin Ketone	83
Heptachlor	94
Heptachlor Epoxide	96
4,4'-Methoxychlor	95
Toxaphene	Not Spiked
Aroclor 1016/1242	75
Aroclor-1221	Not Spiked
Aroclor-1232	Not Spiked
Aroclor-1248	Not Spiked
Aroclor-1254	Not Spiked
Aroclor-1260	83

**Air Sample Volume(L): 85000**

Aroclors were reported from file #P070707, analyzed on 7/7/09 with a dilution factor of 1.00.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	80	60-120
Decachlorobiphenyl	73	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0906708A/709A pest	Client Smp ID: LCS
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: LCS
SpikeList File: 1050-166.spk	Quant Type: ISTD
Sublist File: LCSfull.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3865	96.62	65-125
10 b-BHC	0.4000	0.3646	91.15	65-125
9 g-BHC	0.4000	0.3676	91.89	65-125
11 d-BHC	0.4000	0.3683	92.08	65-125
12 Heptachlor	0.4000	0.3772	94.29	65-125
13 Aldrin	0.4000	0.3730	93.25	65-125
14 Heptachlor Epoxide	0.4000	0.3820	95.50	65-125
17 Endosulfan I	0.4000	0.3371	84.28	65-125
18 DDE	0.8000	0.7011	87.64	65-125
19 Dieldrin	0.8000	0.7275	90.94	65-125
20 Endrin	0.8000	0.7239	90.49	65-125
22 Endosulfan II	0.8000	0.7139	89.24	65-125
21 DDD	0.8000	0.7377	92.21	65-125
24 Endrin Aldehyde	0.8000	0.5442	68.03	20-86
25 Endosulfan Sulfate	0.8000	0.7016	87.70	65-125
23 DDT	0.8000	0.6711	83.89	65-125
27 Endrin Ketone	0.8000	0.6658	83.22	65-125
16 a-Chlordane	0.4000	0.3687	92.18	65-125
15 g-Chlordane	0.4000	0.3645	91.13	65-125
26 Methoxychlor	4.000	3.811	95.28	65-125
169 Mirex	2.000	0.000	*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.400	1.124	80.27	60-120
\$ 28 DCB	2.200	1.616	73.47	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2009  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 0906708A/709A PCB Client Smp ID: LCS  
Level: LOW Operator: LZ  
Data Type: GC DATA SampleType: LCS  
SpikeList File: LCS10.spk Quant Type: ISTD  
Sublist File: CCV.sub  
Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m  
Misc Info: None

SPIKE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
M	3 pcb1016/1242	5.00	3.76	75.11	65-125
	4 pcb1016/1242-1	5.00	4.09	81.79	65-125
	5 pcb1016/1242-2	5.00	3.52	70.49	65-125
	6 pcb1016/1242-3	5.00	3.58	71.61	65-125
	7 pcb1016/1242-4	5.00	4.21	84.27	65-125
M	8 pcb1260	5.00	4.14	82.74	65-125
	9 pcb1260-1	5.00	3.98	79.52	65-125
	10 pcb1260-2	5.00	3.98	79.58	65-125
	11 pcb1260-3	5.00	4.19	83.81	65-125
	12 pcb1260-4	5.00	4.32	86.31	65-125

SURROGATE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	0.600	0.610	101.67	60-120
\$	38 DCB	0.600	0.551	91.82	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070708.d

Lab Smp Id: 0906708A/709A pestClient Smp ID: LCS

Inj Date : 07-JUL-2009 22:51

Operator : LZInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/07Jul2009.b/p0910519.m

Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD

Cal Date : 19-MAY-2009 20:37Cal File: P051912.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP GenieCompound Sublist: LCSfull.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

				CONCENTRATIONS		
				ON-COLUMN	FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.011	6.011	(0.352)	19850494806	1.12371	1.124
8 a-BHC	7.000	6.999	(0.410)	9823698380	0.38649	0.3865
9 g-BHC	7.612	7.611	(0.446)	8694495185	0.36758	0.3676
10 b-BHC	7.756	7.753	(0.454)	3553567923	0.36462	0.3646
11 d-BHC	8.288	8.286	(0.485)	8088424041	0.36831	0.3683
12 Heptachlor	8.401	8.400	(0.492)	8124854351	0.37717	0.3772
13 Aldrin	9.006	9.004	(0.527)	7827986114	0.37301	0.3730
14 Heptachlor Epoxide	10.017	10.015	(0.587)	6904283028	0.38201	0.3820
15 g-Chlordane	10.331	10.330	(0.605)	6943795352	0.36452	0.3645
16 a-Chlordane	10.571	10.570	(0.619)	6632508958	0.36872	0.3687
17 Endosulfan I	10.667	10.667	(0.625)	5467455514	0.33711	0.3371
18 DDE	10.838	10.837	(0.635)	12093006298	0.70109	0.7011
19 Dieldrin	11.103	11.102	(0.650)	12873686364	0.72750	0.7275
20 Endrin	11.572	11.571	(0.678)	11351894709	0.72393	0.7239
21 DDD	11.728	11.728	(0.687)	10092722498	0.73768	0.7377
22 Endosulfan II	11.889	11.888	(0.696)	10355135657	0.71390	0.7139
23 DDT	12.184	12.183	(0.713)	9696058054	0.67109	0.6711
24 Endrin Aldehyde	12.378	12.377	(0.725)	6222898585	0.54425	0.5442
25 Endosulfan Sulfate	12.769	12.768	(0.748)	8974946752	0.70157	0.7016
26 Methoxychlor	13.136	13.136	(0.769)	20432247430	3.81123	3.811
27 Endrin Ketone	13.508	13.506	(0.791)	9579691287	0.66578	0.6658

Compounds	CONCENTRATIONS					
				ON-COLUMN		FINAL
	RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	15.406	15.404	(0.902)	18013815945	1.61635	1.616
* 29 Decachlorodiphenyl Ether	17.078	17.075	(1.000)	18240695336	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/07Jul2009.b/P070707.d  
Lab Smp Id: 0906708A/709A PCB Client Smp ID: LCS  
Inj Date : 07-JUL-2009 22:24  
Operator : LZ Inst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Rtx-CLPesticide II  
Method : /chem/gcp.i/07Jul2009.b/p09p0522.m  
Meth Date : 07-Jul-2009 13:56 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

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.011	6.010	(0.352)	8651591801	0.61003	0.610
M 3 pcb1016/1242					7736921395	3.75549	3.76
4 pcb1016/1242-1		7.419	7.419	(0.434)	1356885114	4.08947	4.09
5 pcb1016/1242-2		8.214	8.216	(0.481)	2937908378	3.52452	3.52
6 pcb1016/1242-3		8.451	8.452	(0.495)	1855987997	3.58040	3.58
7 pcb1016/1242-4		9.285	9.286	(0.544)	1586139904	4.21367	4.21
M 8 pcb1260					13797947433	4.13709	4.14
9 pcb1260-1		11.350	11.350	(0.665)	2745560506	3.97578	3.98
10 pcb1260-2		11.657	11.657	(0.683)	3353239945	3.97913	3.98
11 pcb1260-3		12.731	12.730	(0.745)	2578953807	4.19048	4.19
12 pcb1260-4		13.067	13.067	(0.765)	5120193174	4.31547	4.32
\$ 38 DCB		15.405	15.404	(0.902)	5248776257	0.55095	0.551
* 39 Decachlorodiphenyl Ether		17.079	17.076	(1.000)	18190947030	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070708.d

Calibration Time: 20:49

Lab Smp Id: 0906708A/709A pest

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	18266316146	9133158073	36532632292	18240695336	-0.14
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070707.d

Calibration Time: 20:22

Lab Smp Id: 0906708A/709A PCB

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17529836943	8764918472	35059673887	18190947030	3.77

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 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.

Data File: /chem/gcp.i/07Jul2009.b/P070708.d

Date : 07-JUL-2009 22:51

Client ID: LCS

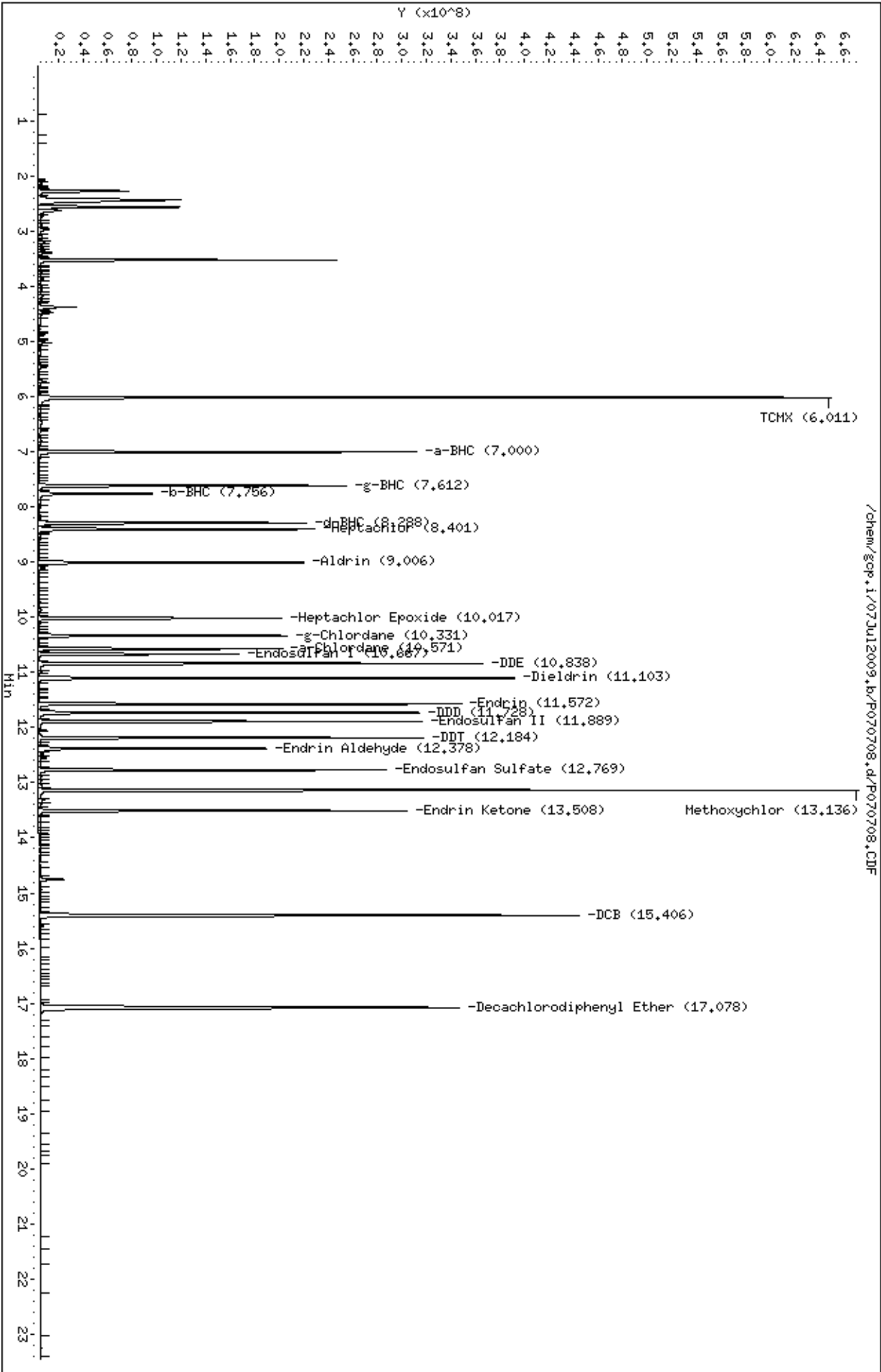
Sample Info:

Instrument: gcp.i

Column phase:

Operator: LZ

Column diameter: 2.00



Data File: /chem/gcp.i/07Jul2009.b/P070707.d

Date : 07-JUL-2009 22:24

Client ID: LCS

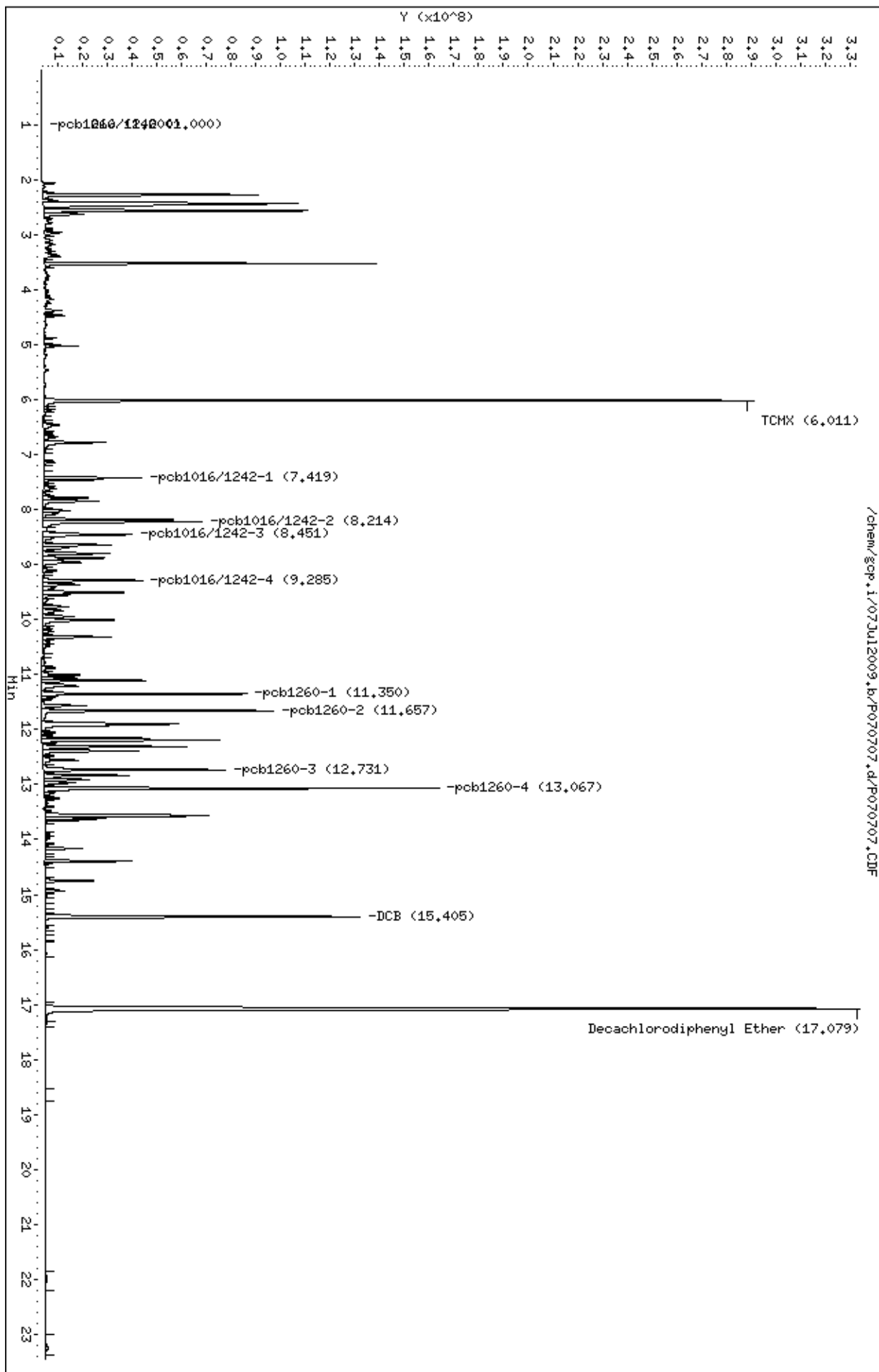
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070708b.d  
Lab Smp Id: 0906708A/709A pestClient Smp ID: LCS  
Inj Date : 07-JUL-2009 22:51  
Operator : LZInst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Back column, Rtx-CLPesticides  
Method : /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m  
Meth Date : 07-Jul-2009 14:26 lzhangQuant Type: ISTD  
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d  
Als bottle: 1QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP GenieCompound Sublist: LCSfull.sub  
Target Version: 3.50  
Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd VariableLocal Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE	( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.832	5.830	(0.371)	7191457012	1.15387	1.154
8 a-BHC	6.705	6.703	(0.427)	3179415997	0.37352	0.3735
9 g-BHC	7.227	7.225	(0.460)	2803291375	0.35254	0.3525
10 b-BHC	7.369	7.367	(0.469)	1204637385	0.37691	0.3769
11 d-BHC	7.682	7.681	(0.489)	2779120571	0.37137	0.3714
12 Heptachlor	8.046	8.044	(0.512)	2652334748	0.36145	0.3614
13 Aldrin	8.593	8.591	(0.547)	2583929840	0.36365	0.3636
14 Heptachlor Epoxide	9.676	9.674	(0.616)	2346177314	0.37293	0.3729
15 g-Chlordane	9.886	9.884	(0.630)	2149739226	0.32354	0.3235
16 a-Chlordane	10.107	10.105	(0.644)	2275368776	0.35561	0.3556
18 Endosulfan I	10.338	10.336	(0.658)	2134784907	0.35795	0.3579
17 DDE	10.222	10.221	(0.651)	4615940437	0.78413	0.7841
19 Dieldrin	10.720	10.718	(0.683)	4749030950	0.73828	0.7383
20 Endrin	11.084	11.082	(0.706)	4127789683	0.72339	0.7234
21 DDD	11.165	11.164	(0.711)	3567523738	0.70518	0.7052
22 Endosulfan II	11.424	11.422	(0.727)	3804372387	0.70289	0.7029
23 DDT	11.581	11.579	(0.737)	3982513760	0.71186	0.7119
24 Endrin Aldehyde	12.035	12.032	(0.766)	1953591298	0.42988	0.4299
26 Endosulfan Sulfate	12.647	12.645	(0.805)	3427407054	0.68749	0.6875
25 Methoxychlor	12.263	12.261	(0.781)	8263411630	3.31436	3.314
27 Endrin Ketone	13.035	13.033	(0.830)	4057518048	0.65359	0.6536

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN	FINAL
					( ug)	( ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	14.383	14.381	(0.916)	8218765056	1.65122	1.651
* 29 Decachlorodiphenyl Ether	15.703	15.700	(1.000)	7908034636	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/07Jul2009.b/P070707b.d  
Lab Smp Id: 0906708A/709A PCB Client Smp ID: LCS  
Inj Date : 07-JUL-2009 22:24  
Operator : LZ Inst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Rtx-CLPesticide  
Method : /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m  
Meth Date : 07-Jul-2009 13:56 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

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	( uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.831	5.829	(0.371)	3118776245	0.56456	0.564
M 3 pcb1016/1242					3014387900	3.99540	4.00
4 pcb1016/1242-1		6.923	6.921	(0.441)	761781960	3.91746	3.92
5 pcb1016/1242-2		7.700	7.701	(0.490)	1009873844	4.06188	4.06
6 pcb1016/1242-3		7.924	7.923	(0.505)	713653752	3.96842	3.97
7 pcb1016/1242-4		8.634	8.632	(0.550)	529078340	4.02186	4.02
M 8 pcb1260					5592985863	4.00998	4.01
9 pcb1260-1		10.692	10.691	(0.681)	1114452359	4.10274	4.10
10 pcb1260-2		11.115	11.114	(0.708)	1562029966	3.78707	3.79
11 pcb1260-3		12.060	12.058	(0.768)	806588144	3.55569	3.56
12 pcb1260-4		12.488	12.487	(0.795)	2109915392	4.36093	4.36
\$ 38 DCB		14.381	14.379	(0.916)	2437021009	0.56628	0.566
* 39 Decachlorodiphenyl Ether		15.701	15.699	(1.000)	7935823488	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070708b.d

Calibration Time: 20:49

Lab Smp Id: 0906708A/709A pest

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	8074460281	4037230141	16148920563	7908034636	-2.06
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 07-JUL-2009

Lab File ID: P070707b.d

Calibration Time: 20:22

Lab Smp Id: 0906708A/709A PCB

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LZ

Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	7983945557	3991972778	15967891114	7935823488	-0.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 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.



Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0906708A/709A pest	Client Smp ID: LCS
Level: LOW	Operator: LZ
Data Type: GC DATA	SampleType: LCS
SpikeList File: 1050-166.spk	Quant Type: ISTD
Sublist File: LCSfull.sub	
Method File: /chem/gcp.i/07Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3735	93.38	65-125
10 b-BHC	0.4000	0.3769	94.23	65-125
9 g-BHC	0.4000	0.3525	88.14	65-125
11 d-BHC	0.4000	0.3714	92.84	65-125
12 Heptachlor	0.4000	0.3614	90.36	65-125
13 Aldrin	0.4000	0.3636	90.91	65-125
14 Heptachlor Epoxide	0.4000	0.3729	93.23	65-125
18 Endosulfan I	0.4000	0.3579	89.49	65-125
17 DDE	0.8000	0.7841	98.02	65-125
19 Dieldrin	0.8000	0.7383	92.28	65-125
20 Endrin	0.8000	0.7234	90.42	65-125
22 Endosulfan II	0.8000	0.7029	87.86	65-125
21 DDD	0.8000	0.7052	88.15	65-125
24 Endrin Aldehyde	0.8000	0.4299	53.73	20-86
26 Endosulfan Sulfate	0.8000	0.6875	85.94	65-125
23 DDT	0.8000	0.7119	88.98	65-125
27 Endrin Ketone	0.8000	0.6536	81.70	65-125
16 a-Chlordane	0.4000	0.3556	88.90	65-125
15 g-Chlordane	0.4000	0.3235	80.89	65-125
25 Methoxychlor	4.000	3.314	82.86	65-125
168 Mirex	2.000	0.000	*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.400	1.154	82.42	60-120
\$ 28 DCB	2.200	1.651	75.06	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2009  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 0906708A/709A PCB Client Smp ID: LCS  
Level: LOW Operator: LZ  
Data Type: GC DATA SampleType: LCS  
SpikeList File: LCS10.spk Quant Type: ISTD  
Sublist File: CCV.sub  
Method File: /chem/gcp.i/07Jul2009.b/p09p0522.m/p09b0522.m  
Misc Info: None

SPIKE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
M	3 pcb1016/1242	5.00	4.00	79.91	65-125
	4 pcb1016/1242-1	5.00	3.92	78.35	65-125
	5 pcb1016/1242-2	5.00	4.06	81.24	65-125
	6 pcb1016/1242-3	5.00	3.97	79.37	65-125
	7 pcb1016/1242-4	5.00	4.02	80.44	65-125
M	8 pcb1260	5.00	4.01	80.20	65-125
	9 pcb1260-1	5.00	4.10	82.05	65-125
	10 pcb1260-2	5.00	3.79	75.74	65-125
	11 pcb1260-3	5.00	3.56	71.11	65-125
	12 pcb1260-4	5.00	4.36	87.22	65-125

SURROGATE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	0.600	0.564	94.09	60-120
\$	38 DCB	0.600	0.566	94.38	60-120

Data File: /chem/gcp.i/07Jul2009.b/P070708b.d

Date : 07-JUL-2009 22:51

Client ID: LCS

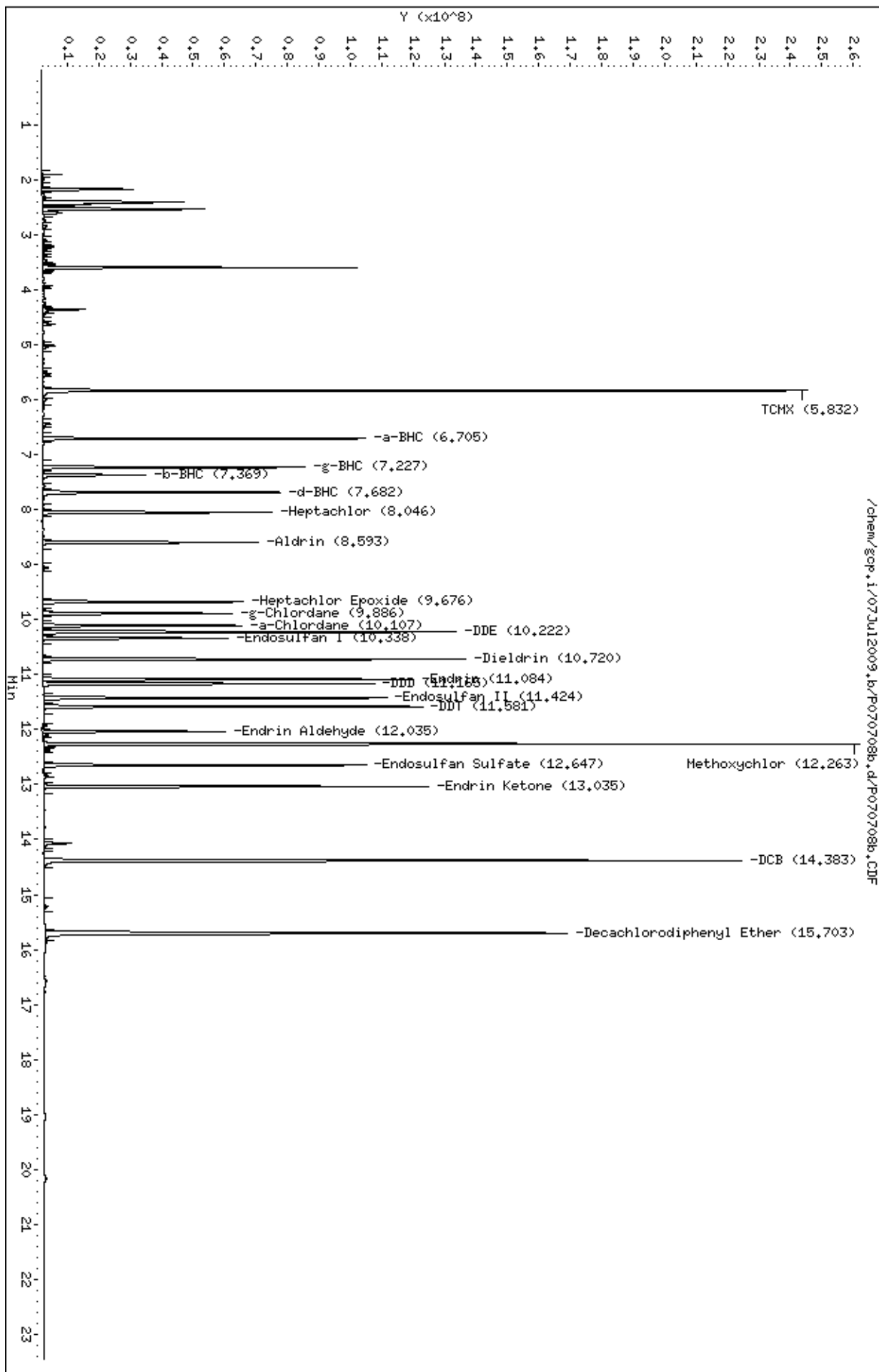
Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00



Data File: /chem/gcp.i/07Jul2009.b/P070707b.d

Date : 07-JUL-2009 22:24

Client ID: LCS

Sample Info:

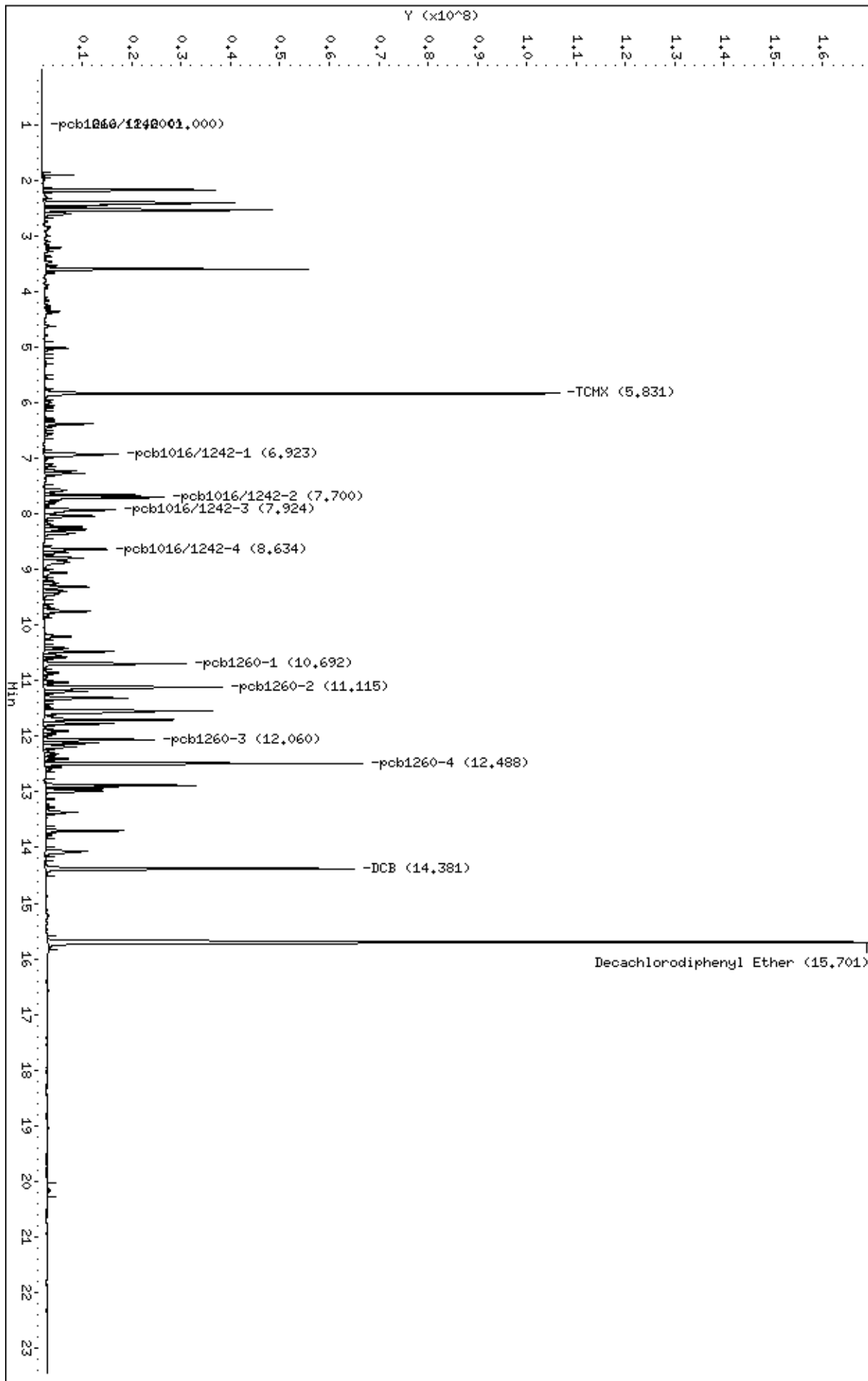
Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

Column phase:

/chem/gcp.i/07Jul2009.b/P070707b.d/P070707b.CMF



**Date Extracted:** 7/1/09  
**Set-up By:** MJS  
**Spiked By:** MJS  
**Spike Date:** 7/1/09  
**Initial Solvent:** Dichloromethane  
**Initial Solvent Lot#:** 09032

**Spike Witness:** CR  
**Date Witnessed:** 07/01/01  
☒ **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:** 7/2/09

[illegible]

Comments: 0406708A-01A, 04A, 0406709A-04A, not received in original packaging with batch label identifying ID, samples were sent out on 6/17/04 and date was used to verify media ID'S, 0406708A-01A cartridge received broken, sample recovered,

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

104

IS Std ID	IS	Area Counts	Breakdown %
	1-Bromo-2-Nitrobenzene	Front:	Front: 2.82%
		Back:	Back: 2.88%
1685-320-50	Decafluorodiphenyl Ether	Front: 18266316146	Front: 6.67%
	Pest	Back: 8074460281	Back: 5.89%
↓	PCB	Front: 17529836943	
		Back: 7983945557	must be ≤15%

Injection Volume: 1.0 µL

GMT

Sl	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓ P070701	Hexane Wash	1	1.00	W	7/07/09	1929	W	
2	✓	2 1685-143-0.18 Bw/00T	2				1955		
3	✓	3 1685-137A-5 PCB cc	3				2022		
4	✓	4 1685-137A-0.6 Pest cc	4				2049		
5	✓	5 Hexane Blank	5				2130		
6	✓	6 0906708A/209A-Blank	6				2157		
7	✓	7 -LCS Pest 7	7				2224		
8	✓	8 -LCS Pest 8	8				2251		
9	✓	9 0906708A-04A	9				2317		
10	✓	10 0906709A-04A	10				2344		
11	✓	11 -01A	11			7/8/09	0011		
12	✓	12 0706708A-01A	12				0037		
13	✓	13 -04A	13	5.00			0104		
14	✓	14 1685-137A-5 PCB	3	1.00			0138		
15	✓	15 1685-137A-0.6 Pest	4	1	↓		0204	↓	
16									
17									
18									
19									
20									
21									
22									
23									
24									

## Calculation Check:

File ID: P070708 Compound: g-BHCInitials: W

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample}} \times \text{ICAL RRF}_{\text{AVG}} = \frac{8694495185}{48240695336} \times (2) = 2.5935$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.3676) \times (1000) \times (1)}{(1000)} = 0.3676$$

Signed

7/8/09  
DateReported Result = 0.3676

Revised: 02/27/06

## **Shipping/ Receiving Documents**

**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 #: 0906709A  
# 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



## 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, SL  
FOLSOM, CA 95688-4771  
(916) 985-1000 FAX (916) 985-1001

Page 1 of 1

Project Manager Debra Harker

Collected by: (Print and Sign) John Bale 8/10/04

Company Para Tech Env Email john.bale@paratechenv.com

Address 828 American Tel. Co. City Red Blk State ND Zip 58700

Phone 281 1080 Fax 281 389 1183

### Project Info:

P.O. # \_\_\_\_\_

Project # 10390333-06

Project Name EMT

### Turn Around Time:

☒ Normal

☐ Push

### Circle Reporting Units:

ppbv ppmv

ug/m<sup>3</sup> mg/l

specify \_\_\_\_\_

Lab I.D. \_\_\_\_\_

Field Sample I.D. (Location) \_\_\_\_\_

Tube # / Cartridge # \_\_\_\_\_

Date of Collection \_\_\_\_\_

Start Time \_\_\_\_\_

End Time \_\_\_\_\_

Duration \_\_\_\_\_

Final Volume \_\_\_\_\_

Analysis Requested \_\_\_\_\_

01A 01F03062504

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Received by: (signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

## SAMPLE RECEIPT SUMMARY

### WORKORDER 0906709A

**Client**

Mr. Doug Herlocker  
Tetra Tech  
3380 Americana Terrace, Suite 201  
Boise, ID 83706

**Phone**

208-389-1030

**Fax**

**Date Promised:** 07/15/09

**Date Completed:** 7/16/09

**Date Received:** 6/30/09

**PO#:** 103P0333.005

**Project#:** 103P0333.06 BMI

**Sales Rep:** JJM

**Total \$:** \$ 720.00

**Logged By:** MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01A	OFF03062509	Modified TO-4A	6/25/2009	\$360.00
04A	OFF04062509	Modified TO-4A	6/25/2009	\$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/07Jul2009.b/P070702.d  
Lab Smp Id: 1685-143-0.8 en/ddt Client Smp ID: BREAKDOWN  
Inj Date : 07-JUL-2009 19:55  
Operator : LZ Inst ID: gcp.i  
Smp Info :  
Misc Info : None  
Comment : Primary Column, RTX-CLPesticides II  
Method : /chem/gcp.i/07Jul2009.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

		CONCENTRATIONS				
					ON-COLUMN	FINAL
					( area)	( area)
Compounds	RT	EXP RT	DLT RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
M 1 Total DDT				9182851164		
M 2 Total Endrin				11068116653		
3 p,p'-DDE	10.839	10.848	-0.009	110685304		
4 Endrin	11.571	11.578	-0.007	10755946933		
5 p,p'-DDD	11.730	11.739	-0.009	501513057		
6 p,p'-DDT	12.183	12.190	-0.007	8570652802		
7 Endrin Aldehyde	12.379	12.386	-0.007	36341131		
8 Endrin Ketone	13.506	13.513	-0.007	275828588		

$$\% \text{ Endrin} = \frac{36341131 + 275828588}{11068116653} = 2.82\%$$

$$\% \text{ DDT} = \frac{501513057 + 8570652802}{9182851164} = 6.67\%$$

718109

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/07Jul2009.b/P070702b.d  
 Lab Smp Id: 1685-143-0.8 en/ddt Client Smp ID: BREAKDOWN  
 Inj Date : 07-JUL-2009 19:55  
 Operator : LZ Inst ID: gcp.i  
 Smp Info :  
 Misc Info : None  
 Comment : Confirmation Column, RTX-CLPesticides  
 Method : /chem/gcp.i/07Jul2009.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				4003108301		
M 2 Total Endrin				4448087101		
3 p,p'-DDE	10.896	10.844	0.052	40430400		
4 Endrin	11.078	11.573	-0.495	4320195067		
5 p,p'-DDD	11.163	11.735	-0.572	195509548		
6 p,p'-DDT	11.576	12.186	-0.610	3767168352		
7 Endrin Aldehyde	12.030	12.380	-0.350	7701423		
8 Endrin Ketone	13.031	13.509	-0.478	120190609		

$$\% \text{ Endrin} = \frac{120190609 + 7701423}{4448087101} \times 100\% = 2.88\%$$

$$\% \text{ DDT} = \frac{195509548 + 40430400}{4003108301} \times 100\% = 5.89\%$$

6 718109

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 (m³)	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	885.08	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	98.74	98,735.40
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
CAMUS3-062309 (TO-4)	6/23/2009	50	50	0.208	880.4	890.05	9.65	120.45	120,462.10
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	1580.49	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

OFF03-082309 (TO-13)	6/23/2009	50	42	0.139	1784.44	1794.19	9.75	81.24	81,242.30
OFF03-082509 (TO-13)	6/25/2009	52	46	0.145	1794.19	1803.37	9.18	79.78	79,775.10
OFF03-083009 (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									
OFF04-081609 (TO-4)	6/17/2009	32	32	0.121	1051.77	1060.33	8.56	62.33	62,332.90
OFF04-081809 (TO-4)	6/18/2009	40	40	0.138	1060.34	1069.62	9.28	77.03	77,025.20
OFF04-082309 (TO-4)	6/23/2009	40	40	0.138	1069.62	1079.23	9.61	79.37	79,365.80
OFF04-082509 (TO-4)	6/25/2009	22	20	0.095	1079.89	1089.82	9.93	56.33	56,329.40
OFF04-083009 (TO-4)	6/30/2009	32	30	0.117	1089.82	1098.95	9.13	64.02	64,019.80
OFF04-070209 (TO-4)	7/2/2009	50	48	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
OFF04-081609 (TO-9)	6/17/2009	32	31	0.098	4556.43	4564.97	8.54	48.97	48,973.70
OFF04-081809 (TO-9)	6/18/2009	36	34	0.103	4564.97	4574.27	9.3	57.48	57,482.10
OFF04-082309 (TO-9)	6/23/2009	44	44	0.119	4574.27	4583.87	9.6	68.73	68,730.80
OFF04-082509 (TO-9)	6/25/2009	44	40	0.116	4583.88	4594.47	10.59	73.8	73,797.00
OFF04-083009 (TO-9)	6/30/2009	48	46	0.122	4594.47	4603.6	9.13	67.02	67,016.80
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	56	56	0.14	4612.41	4621.63	9.22	77.3	77,297.90
OFF04-081609 (TO-13)	6/17/2009	36	39	0.075	909.82	918.36	8.54	38.26	38,255.40
OFF04-081809 (TO-13)	6/18/2009	48	46	0.091	918.37	927.65	9.28	50.68	50,675.40
OFF04-082309 (TO-13)	6/23/2009	28	28	0.056	927.65	937.26	9.61	32.34	32,344.40
OFF04-082509 (TO-13)	6/25/2009	24	24	0.048	937.26	947.85	10.59	30.37	30,366.00
OFF04-083009 (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	44,467.90
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	Type
		ug	
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	



## DATA REVIEW CHECKLIST

Work Order #:

096709A

A<sub>1</sub> A<sub>2</sub> 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)  
☐ ☐ ☒ ☐ ☒ ☐ 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  
☐ ☐ ☒ ☐ ☒ ☐ Appropriate data qualifier flags are applied  
☐ ☐ ☒ ☐ ☒ ☐ Manual integrations for samples and QC are properly documented  
☐ ☐ ☒ ☐ ☐ ☐ Samples analyzed within the project or method specific clock  
☐ ☐ ☒ ☐ ☐ ☐ Retention times have been verified  
☐ ☐ ☒ ☐ ☐ ☐ Appropriate ICAL(s) included  
☐ ☐ ☒ ☐ ☒ ☐ At least one result per sample is verified against the target quant sheets/raw data  


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☐ ☐ ☒ ☐ ☐ ☐ 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)  


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☐ ☐ ☐ ☐ ☐ ☐ 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)  


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☐ ☐ ☒ ☐ ☐ ☐ 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, 3/14/09, 3/12/09  


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☐ ☐ ☒ ☐ ☐ ☐ Samples pressurized w/ appropriate gas (N<sub>2</sub> or He) ☒ Other (i.e. Tedlar bag, cartridge, sorbent)  
☐ ☐ ☐ ☐ ☐ ☐ Final pressure consistent with canister size (6L vs. 1L)  
☐ ☐ ☐ ☐ ☐ ☐ Verify receipt pressures  


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☐ ☐ ☐ ☐ ☐ ☐ Verify canister ID #'s  
☐ ☐ ☒ ☐ ☐ ☐ Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)  


---

☐ ☐ ☐ ☐ ☐ ☐ MDL date(s) present for all instruments utilized  
☐ ☐ ☒ ☐ ☒ ☐ 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 time in target files

M/Q:

A<sub>1</sub>/A<sub>2</sub>

(Analytical Review/Date)

R/T

(Reporting Review/Date)

M

(Management Review/Date)

Q

(QA Review/Date)

A<sub>1</sub>:

R:

A<sub>2</sub>:

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**